FINAL SAFETY ANALYSIS REPORT

CHAPTER 2

SITE CHARACTERISTICS

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2.0 SITE CHARACTERISTICS

This Chapter of the U.S. EPR FSAR is incorporated by reference with the following departures and/or supplements.

Chapter 2 describes the geological, seismological, hydrological, and meteorological characteristics of the {Bell Bend Nuclear Power Plant (BBNPP)} site and vicinity. The site characteristics are described in conjunction with present and projected population distribution, land use, and site activities and controls. The {BBNPP} site characteristics were developed in accordance with the relevant requirements of Title 10 CFR Part 20, Subpart D (CFR, 2007a); Title 10 CFR Part 50 (CFR, 2007b); Title 10 CFR Part 100 (CFR, 2007c); and Regulatory Guide 1.206 (NRC, 2007).

The U.S. EPR FSAR includes the following COL Item in Section 2.0:

> A COL applicant that references the U.S. EPR design certification will compare site-specific data to design parameter data in Table 2.0-1. If the specific data for the site falls within the assumed design parameter data and characteristics in Table 2.0-1, then the U.S. EPR standard design is bounding for the site. For site-specific design parameter data or characteristic that are outside the bounds of the assumptions presented in Table 2.0-1, the COL applicant will confirm that the U.S. EPR design acceptably meets any additional requirements that may be imposed by the more limiting site-specific design parameter data or characteristic, and that the design maintains conformance to the design commitments and acceptance criteria described in this FSAR.

This COL Item is addressed as follows:

The {BBNPP} site-specific parameters and characteristics have been reviewed and compared to determine if they are within the bounds of the assumed parameters and characteristics for a U.S. EPR. This comparison is provided in Table 2.0-1 and Table 2.0-2. For the {BBNPP} site-specific parameters or characteristics that are outside the bounds of the conservative limiting assumptions presented in Table 2.0-1 and Table 2.0-2, justification of the acceptability of these conditions is provided in the associated section of Chapter 3, Design of Structures, Components, Equipment and Systems or as specified in the table.

Table 2.0-1 U.S. EPR Site Design Envelope Comparison

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	U.S. EPR FSAR Design Parameter Value/Characteristic	{BBNPP} Design Parameter Value/Characteristic
Precipitation		
Rainfall	<19.4 in/hr	{17.5 in/hr (44.5 cm/hr)} (See Section 2.4.3)
Snow (design: extreme live load, including 48-hour probable maximum winter precipitation)	<100 psf	{45 psf (95 kg/m^2)} (See section 2.3.1)
Seismology		
Horizontal SSE Acceleration	0.3g Peak (CSDRS shapes – See Section 3.7.)	{Exceeds 0.3 g primarily in the high frequency region (note a)} (See Sections 2.5.2 and 3.7)
Vertical SSE Acceleration	0.3g Peak (CSDRS shapes – See Section 3.7.)	{Exceeds 0.3 g primarily in the high frequency region (note a)} (See Sections 2.5.2 and 3.7)
Fault Displacement Potential	No fault displacement is considered for safety-related SSCs in U.S. EPR design certification.	{No fault displacement potential} (See Section 2.5.3)
Soil		
Minimum Bearing Capacity (Static)	22 ksf in localized areas at the bottom of the Nuclear Island basemat and 15 ksf on average across the total area of the bottom of the Nuclear Island basemat.	{22 ksf in localized areas of the NI Basemat and 15 ksf on the average across the total area of the bottom of the NI basemat} (See section 2.5.4.10)
Minimum Shear Wave Velocity (Low strain best estimate average value at bottom of basemat)	1000 fps	{>1000 fps} (See Section 2.5.4)
Liquefaction	None	{None} (See section 2.5.4)
Slope Failure Potential	No slope failure potential is considered in the design of safety-related SSCs for U.S. EPR design certification.	{No slope failure potential that would adversely affect the safety of the proposed BBNPP} (See Section 2.5.5)
Maximum Differential Settlement (across the basemat)	1/2 inch in 50 feet in any direction	{< 0.1 in 50 ft for common Basemat in any direction} (See Section 2.5.4) { <0.1 inch in 50 ft in any direction for both EPGB and ESWB } (See Section 2.5.4)
Maximum Ground Water	3.3 ft below grade	{Ranges between 3.0 ft (0.9 m) and 10 ft (3.0 m) below grade for all safety-related structures except ESWEMS Pumphouse where it is 3 ft (0.9 m) below grade (note a) (See Sections 3.8.4, 3.8.5.5.2, and 3.8.5.5.3)})

Table 2.0-1 U.S. EPR Site Design Envelope Comparison
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	U.S. EPR FSAR Design Parameter Value/Characteristic	{BBNPP} Design Parameter Value/Characteristic
Inventory of Radionuclides Which Could Potentially Seep Into the Groundwater		
Bounding Values for Component Radionuclide Inventory	See Table 2.0-2	See Table 2.0-2
Flood Level		
Maximum Flood (or Tsunami)	1 ft below grade	{Approximately 3 ft (0.9 m) below grade except for the pumpwell structure of the ESWEMS Pumphouse which is normally submerged (note a)} (See Sections 2.4.1 and 2.4.2, 2.4.10, 3.4.2, 3.4.3.10, 3.8.4.1.11, 3.8.4.3, and 9.2.5)
Wind		
Maximum Sustained Speed	145 mph (Based on 3-sec gust at 33 ft above ground level and factored for 50-yr mean recurrence interval.)	{90 mph (0.45 m/s)} (based on 3 second gust at 33 feet for 50 year recurrence interval) (See Section 2.3.1)
Importance Factor	1.15 (Safety-related structures for 100-year mean recurrence interval.)	{1.07} (safety related structures for 100 year mean recurrence interval) (See Section 2.3.1)
Tornado		
Maximum Pressure Drop	1.2 psi at 0.5 psi/sec	{1.2 psi (83 mb) at 0.5 psi/sec (34.5 mb/sec)} (See Section 2.3.1)
Maximum Rotational Speed	184 mph	{184 mph (82 m/s)} (See Section 2.3.1)
Maximum Translational Speed	46 mph	{46 mph (21 m/s)} (See Section 2.3.1)
Maximum Wind Speed	230 mph	{230 mph (103 m/s)} (See Section 2.3.1)
Radius of Maximum Rotational Speed	150 ft	{150 feet (45.7 m/s)} (See Section 2.3.1)

Table 2.0-1 U.S. EPR Site Design Envelope Comparison

(Page 3 of 5)

			U.S. EPR FSAR Design Parameter Value/Characteristic	{BBNPP} Design Parameter Value/Characteristic
Missile Spectra			6 in Schedule 40 pipe, 6.625 in diameter x 15 ft long, 287 lb, 34.5 in^2 impact area, impact velocity of 135 ft/sec horizontal and 90 ft/sec vertical.	{Design values are enveloped} (See Section 3.5)
			Automobile, 16.4 ft x 6.6 ft x 4.3 ft, 4000 lb, 4086.7 in^2 impact area, impact velocity of 135 ft/sec horizontal & 90 ft/sec vertical. (Automobile missile is considered at elevations up to 30.0 ft above grade elevation.)	{Design values are enveloped} (See Section 3.5)
			Solid steel sphere, 1 in diameter, 0.147 lb, 0.79 in^2 impact area, impact velocity of 26 ft/sec horizontal & 17 ft/sec Vertical.	{Design values are enveloped} (See Section 3.5)
Temperature				
Air	0% Exceedance Values	Maximum	115°F Dry Bulb / 80°F Wet Bulb (coincident)	{100°F (37.8°C) Dry Bulb /71.7°F (22.1°C) Wet Bulb (coincident)} (See Section 9.2.1)
			81°F Wet Bulb (non-coincident) for UHS Design only	{78.9°F (26.1 °C) Wet Bulb (non-coincident) for UHS Design only} (See Section 9.2.1)
		Minimum	-40°F	{-23.7°F (-30.9°C)} (See Section 2.3.1)
	1% Exceedance Values	Maximum	100°F Dry Bulb / 77°F Wet Bulb (coincident)	{85.8°F (29.9°C)}
			80°F Wet Bulb (non-coincident) for UHS Design only	{76.2°F (24.6°C)}
		Minimum	-10°F	{-15.1°F (-26.2°C)}
UHS Meteorological Conditions				
Conditions resulting in Maximum Evaporation and Drift Loss of Water from the UHS (Section 2.3.1)			As presented in Table 2.1-3 – Design Values for Maximum Evaporation and Drift Loss of Water from the UHS	{85.8°F (29.9°C) Dry Bulb /76.2°F (24.6°C) Wet Bulb} (See Section 9.2.1.1)
Conditions resulting in Minimum Water Cooling in the UHS (Section 2.3.1)			As presented in Table 2.1-4 – Design Values for Minimum Water Cooling in the UHS.	{73°F (22.8°C)} (See Sections 9.2.1.1 and 2.3.1)
Potential for Water Freezing in the UHS Water Storage Facility (Sections 2.4.7 and 9.2.5)			As presented in Section 2.4.7 and 9.2.5	{27.9°F (-2.3°C) - See Sections 2.4.7 and 9.2.5}

Table 2.0-1 U.S. EPR Site Design Envelope Comparison

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	U.S. EPR FSAR Design Parameter Value/Characteristic	{BBNPP} Design Parameter Value/Characteristic
UHS Design Parameters		
Maximum UHS Evaporative Water Loss	571 gpm	{571 gpm (2.16 cm/min)} (See Section 9.2.1.1)
Maximum Drift Water Loss	≤0.005%	{<0.005%} (See Section 2.3.1.2)
Design Cold (outlet) Water Temperature	≤95°F (max ESWS supply design limit)	{<95 °F (52.8°C)} (See Sections 2.3.1 and 9.2.1.1)

Table 2.0-1 U.S. EPR Site Design Envelope Comparison

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	U.S. EPR FSAR Design Parameter Value/Characteristic	{BBNPP} Design Parameter Value/Characteristic
Atmospheric Dispersion Factors (χ/Q)		
Maximum Annual Average (0.5 mile - limiting sector)	<4.973E-6 sec/m^3	{4.062E-05 sec/m^3 (note b)} (See Section 2.3.5)
Accident		
0-2 hr (Exclusion Area Boundary, (EAB), 0.5 miles)	<1E-3 sec/m^3	{1.029E-03 sec/m^3(note c)} (See Section 2.3.4)
0-2 hr (Low Population Zone (LPZ, 1.5 miles)	<1.75E-4 sec/m^3	{2.766E-04 sec/m^3 (note c)} (See Section 2.3.4)
2-8 hr (Low Population Zone (LPZ, 1.5 miles)	<1.35E-4 sec/m^3	{1.648E-04 sec/m^3 (note c)} (See Section 2.3.4)
8-24 hr (Low Population Zone (LPZ, 1.5 miles)	<1.00E-4 sec/m^3	{1.038E-04 sec/m^3 (note c)} (See Section 2.3.4)
1-4 day (Low Population Zone (LPZ, 1.5 miles)	<5.40E-5 sec/m^3	{5.106E-05 sec/m^3} (See Section 2.3.4)
4-30 day (Low Population Zone (LPZ, 1.5 miles)	<2.20E-5 sec/m^3	{1.845E-05 sec/m^3} (See Section 2.3.4)

Notes:

a. Value is a departure from a design parameter and is listed in Part 7 of the COL Application. Justification is provided in Chapter 3.

b. Value is a departure from a design parameter and is listed in Part 7 of the COL Application. Justification is provided in Section 2.3.5.

c. Value is a departure listed in Part 7 of the COL Application. Justification is provided in Chapter 15.

Table 2.0-2 Comparison of Inventory of Radionuclides Which Could Potentially Seep Into the Groundwater (Page 1 of 2)

	U.S. EPR FSAR Design Parameter Value/ Characteristic	{BBNPP} Design Parameter Value/ Characteristic (See Section 2.4.13)
Nuclide	**Activity (Ci/g)**	**Activity (Ci/g)**
Br-83	3.2E-02	{3.2E-02}
Br-84	1.7E-02	{1.7E-02}
Br-85	2.0E-03	{2.0E-03}
I-129	4.6E-08	{4.6E-08}
I-130	5.0E-02	{5.0E-02}
I-131	7.4E-01	{7.4E-01}
I-132	3.7E-01	{3.7E-01}
I-133	1.3E+00	{1.3E+00}
I-134	2.4E-01	{2.4E-01}
I-135	7.9E-01	{7.9E-01}
Cs-134	1.7E-01	{1.7E-01}
Cs-136	5.3E-02	{5.3E-02}
Cs-137	1.1E-01	{1.1E-01}
Cs-138	2.2E-01	{2.2E-01}
Cr-51	2.0E-03	{2.0E-03}
Mn-54	1.0E-03	{1.0E-03}
Fe-55	7.6E-04	{7.6E-04}
Fe-59	1.9E-04	{1.9E-04}
Co-58	2.9E-03	{2.9E-03}
Co-60	3.4E-04	{3.4E-04}
Na-24	3.7E-02	{3.7E-02}
Zn-65	3.2E-04	{3.2E-04}
W-187	1.8E-03	{1.8E-03}
Rb-88	1.0E+00	{1.0E+00}
Rb-89	4.7E-02	{4.7E-02}
Sr-89	6.3E-04	{6.3E-04}
Sr-90	3.3E-05	{3.3E-05}
Sr-91	1.0E-03	{1.0E-03}
Sr-92	1.7E-04	{1.7E-04}
Y-90	7.7E-06	{7.7E-06}
Y-91m	5.2E-04	{5.2E-04}
Y-91	8.1E-05	{8.1E-05}
Y-92	1.4E-04	{1.4E-04}
Y-93	6.5E-05	{6.5E-05}
Zr-95	9.3E-05	{9.3E-05}
Nb-95	9.3E-05	{9.3E-05}
Mo-99	1.1E-01	{1.1E-01}
Tc-99m	4.6E-02	{4.6E-02}
Ru-103	7.7E-05	{7.7E-05}
Ru-106	2.7E-05	{2.7E-05}
Rh-103m	6.8E-05	{6.8E-05}
Rh-106	2.7E-05	{2.7E-05}
Ag-110m	2.0E-07	{2.0E-07}

Table 2.0-2 Comparison of Inventory of Radionuclides Which Could Potentially Seep Into the Groundwater (Page 2 of 2)

	U.S. EPR FSAR Design Parameter Value/ Characteristic	{BBNPP} Design Parameter Value/ Characteristic (See Section 2.4.13)
Te-127m	4.4E-04	{4.4E-04}
Te-129m	1.5E-03	{1.5E-03}
Te-129	2.4E-03	{2.4E-03}
Te-131m	3.7E-03	{3.7E-03}
Te-131	2.6E-03	{2.6E-03}
Te-132	4.1E-02	{4.1E-02}
Te-134	6.7E-03	{6.7E-03}
Ba-137m	1.0E-01	{1.0E-01}
Ba-140	6.2E-04	{6.2E-04}
La-140	1.6E-04	{1.6E-04}
Ce-141	8.9E-05	{8.9E-05}
Ce-143	7.6E-05	{7.6E-05}
Ce-144	6.9E-05	{6.9E-05}
Pr-143	8.8E-05	{8.8E-05}
Pr-144	6.9E-05	{6.9E-05}
Np-239	8.7E-04	{8.7E-04}

2.1 GEOGRAPHY AND DEMOGRAPHY

This section of the U.S. EPR FSAR is incorporated by reference with the following supplements.

The U.S. EPR FSAR includes the following COL Item in Section 2.1:

> A COL applicant that references the U.S. EPR design certification will provide site-specific information related to site location and description, exclusion area authority and control, and population distribution.

This COL Item is addressed as follows:

Site specific information related to site location and description is addressed in Section 2.1.1. Exclusion area authority and control is addressed in Section 2.1.2, and population distribution is addressed in Section 2.1.3.

2.1.1 SITE LOCATION AND DESCRIPTION

The U.S. EPR FSAR includes the following COL Item in Section 2.1.1:

> The site location and description is site specific and will be addressed by the COL applicant, including:
>
> - Specific location by longitude and latitude, Universal Transverse Mercator (UTM) coordinates, and political subdivisions; the site's relative location with respect to natural and man-made features of the area such as highways, railways, and waterways; and local population distribution.
> - A map of the site area of suitable scale (with explanatory text as necessary) showing relevant features such as the plant property lines, site and exclusion area boundaries (EAB), location and orientation of principal plant structures within the site area, and highways, railways and waterways that traverse or are adjacent to the site.

The COL Item is addressed as follows:

Section 2.1.1.1 through Section Section 2.1.1.3 are added as a supplement to the U. S. EPR FSAR.

2.1.1.1 Specification of Location

A site area map for the {BBNPP} site is provided in Figure 2.1-1. The coordinates of the center of the containment building for {BBNPP} are provided in Table 2.1-1 for both the Geodetic Latitude/ Longitude and the Universal Transverse Mercator (UTM) coordinate systems.

{Figure 2.1-2 and Figure 2.1-3 depict the BBNPP site and the surrounding area within 50 miles (80 km) and 10 miles (16 km), respectively. The BBNPP site occupies 424 acres (172 hectares). No commercial, industrial, institutional, recreational, or residential structures are located within the BBNPP site.

The BBNPP site is located in Salem Township in western Luzerne County, Pennsylvania and approximately 3 mi (4.8 km) east of Columbia County, Pennsylvania. The BBNPP site is on the west bank of the Susquehanna River. The prominent natural features of the BBNPP site region are two state parks (Nescopeck and Ricketts Glen State Parks), a county park (Moon Lake Park), and several mountains including, the Nescopeck and Hess Mountains on the eastern side of the river and Lee, Huntington, Penobscot, and Shickshinny Mountains to the north of the site. The Susquehanna River, another natural feature, is approximately 1,000 to 1,600 feet (300 to 500 meters) across and too shallow for navigation other than for small recreational watercraft; no ports are located along the river in the vicinity of the BBNPP site.

Luzerne County includes many incorporated cities and boroughs, including Hazelton, Nanticoke, Nescopeck, Shickshinny, West Hazelton, and Wilkes-Barre. Columbia County also has many incorporated cities, towns, and boroughs, including Berwick and Bloomsburg. Berwick, Nescopeck, and Shickshinny are located within 10 miles (16 km) of the BBNPP site. The Luzerne County seat, Wilkes-Barre, PA, is approximately 20 miles (32 km) northeast of the site. The Columbia County seat, Bloomsburg, PA, is approximately 16 miles (26 km) west of the site.

U.S. Route 11 is the closest main road to the BBNPP site and runs south and then east of the site. Pennsylvania State Routes 93 and 239 are located south of the site and I-80 and I-81 are located south and east of the site, respectively. Route 11 provides the main access to the site via North Market Street, Confers Lane, and Beach Grove Road. Two railroads are located within the vicinity of the site. The North Shore Railroad, which only makes deliveries to Susquehanna Steam Electric Station (SSES), follows the west bank of the Susquehanna River and has a spur that serves the SSES site. The other railroad, the Canadian Pacific, is located on the east bank of the Susquehanna River.

A Pennsylvania National Guard facility is located approximately 4 mi (6.4 km) southwest of the site in the borough of Berwick. The other closest military facilities are the Tobyhanna Army Depot, located about 38 mi (61 km) to the east, and Fort Indiantown Gap, located about 50 mi (80.5 km) to the southwest. Several industrial facilities are located within the vicinity of the BBNPP site, including the SSES Units 1 and 2 (immediately east of the site), Deluxe Building Systems (southwest of the site), Leggett and Platt, (north-northwest of the site), Heller's Gas and Custom Made Fireplaces (southeast of the site), Western International Distribution Center (south-southeast of the site), and two industrial parks on the east and south sides of Berwick. These industrial facilities and parks are depicted on Figure 2.1-3.

The metropolitan centers closest to the BBNPP site are Wilkes-Barre, PA, approximately 20 mi (32 km) to the northeast; Scranton, PA, approximately 35 mi (56 km) to the northeast; Allentown, PA, approximately 50 mi (80 km) to the southeast; Harrisburg, PA, approximately 70 mi (113 km) to the west-southwest; Philadelphia, PA, approximately 95 mi (153 km) to the southeast; and New York City, NY, approximately 120 mi (193 km) to the east-southeast Figure 2.1-2 provides the location of the closest cities and towns.}

2.1.1.2 Site Area Map

A site area map for the {BBNPP} site is provided in Figure 2.1-1. This map shows the following attributes:

- Plant property ({owner controlled area}) lines. The {owner controlled} area of the plant property is {882 acres (357 hectares). The site boundary within the owner controlled area is 424 acres (172 hectares)}.

- Exclusion Area Boundary (EAB). Figure 2.1-4 provides an enlarged site area map that provides a scaled plot plan of the exclusion area in 22 ½ degree segments centered on the 16 cardinal compass points.
- Location and orientation of principal plant structures within the site area. Figure 2.1-5 shows an enlarged view of {BBNPP}.
- {Location of BBNPP, which is the only industrial structure within the site. There are no commercial, military, transportation facilities, institutional, recreational, or residential areas on the BBNPP site.}
- True North and Plant North.
- Highways, railways, and waterways that traverse or are adjacent to the site.
- Prominent natural and man-made features in the site area.

2.1.1.3 Boundary for Establishing Effluent Release Limits

The exclusion area is considered the restricted area. The exclusion area boundary (EAB) for {BBNPP} is a circle with a radius of {2,272 ft (692 m) or approximately 0.43 mi (0.69 km) measured from the centerpoint of the Reactor Containment Building} as depicted on Figure 2.1-4. The EAB establishes a radius of at least {0.393 mi (0.632 km)} from the potential release points. In accordance with 10 CFR 50.34(a)(1)(ii)(D)(1), an individual assumed to be located at any point on the EAB will not receive a radiation dose in excess of 25 rem TEDE over any two hour period following a postulated fission product release into the containment (CFR, 2007b). The EAB is established in accordance with 10 CFR 100.21(a) and 10 CFR 100.3 (CFR, 2007c).

This area will be conspicuously posted and administrative procedures, including security patrols will be imposed to control assess to the area. Section 2.1.2.1 provides additional discussion regarding the control of access to the EAB.

2.1.2 EXCLUSION AREA AUTHORITY AND CONTROL

The U.S. EPR FSAR includes the following COL Item in Section 2.1.2:

> The authority for control of activities in the site exclusion area is site-specific and will be addressed by the COL applicant. This information will describe activities unrelated to plant operation that are permitted within the exclusion area.

The COL Item is addressed as follows:

{Section 2.1.2.1 through 2.1.2.4 are added as a supplement to the U. S. EPR FSAR.

2.1.2.1 Authority

{The BBNPP site was originally comprised of multiple parcels ranging in size from 1 acre (0.4 hectares) to 228 acres (92 hectares), totaling 424 acres (172 hectares). The Owner Controlled Area is 882 acres (357 hectares). An additional 384 acres (155 hectares) along the rail road and the North Branch of the Susquehanna River is adjacent, but detached from the main parcel. PPL Bell Bend LLC is in the process of acquiring all mineral rights on the site.

PPL Susquehanna, LLC, a subsidiary of PPL Generation, LLC owns 90% of the existing SSES Units 1 and 2. Allegheny Electric Cooperative owns 10%. PPL Bell Bend, LLC, owner of the BBNPP project. PPL Bell Bend, LLC and PPL Susquehanna, LLC, for their respective parceled areas within the BBNPP EAB, possess the authority to determine all activities including the exclusion and removal of personnel and property. PPL Bell Bend, LLC, and PPL Susquehanna, LLC, for their respective parceled area within the BBNPP EAB, will exercise dominion and control in the event of an emergency to afford protection of public health and safety. Control of access to the BBNPP EAB within the site boundary is provided by posting the boundary and performing security patrols.

2.1.2.2 Control of Activities Unrelated to Plant Operations

No activities unrelated to plant operation are planned within the BBNPP EAB. No person or entity can reside, build or conduct other activities without approval from PPL Bell Bend, LLC within the BBNPP EAB. One family farm is included in the exclusion area boundary. There are no residents at this farm. Terms of the contract for acquisition of this property by PPL Bell Bend LLC provide access to this farm for family members, provided no residence is established and the area is vacated if PPL LLC requests it.

2.1.2.3 Arrangements for Traffic Control

North Market Street and Confers Lane traverse the BBNPP EAB. US Route 11 provides access to the SSES Units 1 and 2 and the BBNPP site via North Market Street, Beach Grove Road, and Confers Lane.

2.1.2.4 Abandonment or Relocation of Roads

There are no public roads traversing the BBNPP EAB that will have to be abandoned or relocated because of their location.}

2.1.3 POPULATION DISTRIBUTION

The U.S. EPR FSAR includes the following COL Item in Section 2.1.3:

> The distribution of the population in the site vicinity is site-specific and will be addressed by the COL applicant.

This COL Item is addressed as follows:

The population surrounding the site, up to a 50 mi (80 km) radius, was estimated based on the {two} most recent U.S. Census Bureau decennial census data {(1990 and 2000) (USCB, 2000) and additional county population projection for 2010, 2020, and 2030 obtained from the Pennsylvania State Data Center which used a cohort-component demographic projection model (PAC, 2008a; PAC, 2008b). Quadratic or linear equations were fit to trend lines for the years 1990, 2000, 2010, 2020, and 2030 for Pennsylvania counties to calculate population projections for each county at decadal intervals for the period 2040 through 2060.} The population distribution {for counties were projected within SECPOP 2000 population rosette and tables (SECPOP 2000, 2003)} in 10 concentric bands at 0 to 1 mi (0 to 1.6 km), 1 to 2 mi (1.6 to 3.2 km), 2 to 3 mi (3.2 to 4.8 km), 3 to 4 mi (4.8 to 6.4 km), 4 to 5 mi (6.4 to 8.0 km), 5 to 10 mi (8.0 to 16 km), 10 to 20 mi (16 to 32 km), 20 to 30 mi (32 to 48 km), 30 to 40 mi (48 to 64 km), and 40 to 50 mi (64 to 80 km) from the site, and 16 directional sectors, each direction consisting of 22 ½ degrees. In addition, the same population information was generated for the year of initial plant operation, and the end of plant life. This information is used for comparison against NRC population density criteria. {It is projected that initial plant operation will occur in 2018. The license would expire 40 years after initial operation. For the purposes of this evaluation, the year 2058 is the expiration of the plant license.} These populations are included with the decade populations that follow and are addressed in detail in Section 2.1.3.6.

Section 2.1.3.1 through Section 2.1.3.6 are added as a supplement to the U. S. EPR FSAR.

2.1.3.1 Population Within 10 mi (16 km)

Figure 2.1-6 shows places of significant population grouping, such as cities and towns, and other features within 10 mi (16 km) of the site. The map includes concentric circles drawn with the {BBNPPP site} at the center point, at distances of 1, 2, 3, 4, 5, and 10 mi (1.6, 3.2, 4.8, 6.4, 8.0, and 16 km). The map is divided into 22 ½ degree segments with each segment centered on one of the 16 compass points. {According to data in the U.S. Census Bureau 2000 decennial census data (USCB, 2000), Berwick is the largest community with a population of 10,744. Other major towns within the 10 mi (16 km) radius include Conyngham (population of 1,958), East Berwick (population of 1,998), Glen Lyon (population of 1,881), Miffinville (population of 1,213), Nescopek (population of 1,528), and Shickshinny (population of 959).

The resident population distribution within 10 mi (16 km) of the BBNPP site was computed using SECPOP 2000 (SECPOP 2000, 2003) which overlays the 2000 census block point data (the smallest unit of census data) on the grid of concentric circles and 16 directional sectors. Radii for concentric circles are defined by the user prior to SECPOP 2000 computations. SECPOP calculation results can be displayed, printed, or saved as a rosette, a table, a MACCS2 (MELCOR Accident Consequence Code System) site file, or a MACCS2 like comma separated variable file.

The population projections within the 10 mi (16km) of the BBNPP site were obtained for 2010, 2020, and 2030 (PAC, 2008a; PAC, 2008b) to plot population trend lines for counties. Quadratic or linear equations were fit to trend lines to calculate population projections for each county at decadal intervals. Population projections were entered into the population multiplier in SECPOP 2000 for decadal years 2010 through 2060. Population multipliers in SECPOP 2000 are applied to the census block point data to project population within each sector of the SECPOP 2000 rosette. The overall trend for the period 2000 to 2060 is for an increase in resident population.}

The population distributions (including transient population) and related information were tabulated for all distances and in all sixteen directions. Figure 2.1-7 through Figure 2.1-15 show the cumulative population (i.e., resident plus transient population) for the year {2000}, and projected populations (by decade) through the year {2060. Each figure was developed using ESRI Arc GIS Version 9.2 and the grid sectors were populated with data from the SECPOP 2000 for each time interval. Figure 2.1-14 and Figure 2.1-15 show population projections for the year of initial operation and the year of initial license expiration. Each figure shows cumulative population by direction and radius, and has been provided in lieu of tabulation.} It is required that projected changes in population growth “within about 5 years” after initial site approval be evaluated. Initial site approval would occur in the {2012} time frame. Plant construction is scheduled to begin in {2012}. Therefore, the {2010} decade population and the {2018} population for initial operation are suitable for this evaluation.

{The population within 10 mi (16 km) radius is presented for the years 2000 to 2060 in Table 2.1-3 and for Columbia, Luzerne, and Schuylkill counties in Table 2.1-2. Transient population and related location information within the 10 mi (16 km) radius is presented in Table 2.1-6 through Table 2.1-9.}

2.1.3.2 Population Between 10 and 50 mi (16 and 80 km)

{The 50 mi (80 km) radius centered at the BBNPP site includes all or parts of 22 Pennsylvania counties (Berks, Bradford, Carbon, Columbia, Dauphin, Lackawanna, Lebanon, Lehigh, Luzerne, Lycoming, Monroe, Montour, Northampton, Northumberland, Pike, Schuylkill, Snyder, Sullivan, Susquehanna, Union, Wayne, and Wyoming). Figure 2.1-16 identifies significant population groupings, such as cities and towns within the 50 mi (80 km) radius. Concentric rings are drawn at 10 mi (16 km) increments between 10 and 50 mi (16 and 80 km) using the BBNPP as the center point. Radii divided the rings into 22 ½ degree segments centered on one of the 16 compass points. Census data for the years 1990 and 2000 were used as well as population projections for the years 2010, 2020, and 2030, to compute population between 10 and 50 mi (16 and 80 km). The same methodology was used to develop the 10 mi (16 km) population grid. The population grid from 10 and 50 mi (16 to 80 km) is illustrated on Figure 2.1-16.

Transient population was not quantified for the 10 to 50 mi (16 to 80 km) radii. The 50 mi (80 km) decadal population distributions for the years 2000 through 2060 and the years of initial operation and plant shutdown for BBNPP are shown in Figure 2.1-17 through Figure 2.1-23, Figure 2.1-25, and Figure 2.1-26, and has been provided in lieu of tabulation. Total populations for each time periods, including the years of initial operation and plant shutdown are summarized in Table 2.1-4. County population projections for counties within or intersected by the 50 mi (80 km) radius are summarized in Table 2.1-5.}

2.1.3.3 Transient Population

2.1.3.3.1 Transient Population Within 10 mi (16 km)

{The transient population within 10 mi (16 km) of the BBNPP are summarized in Table 2.1-6 (major employers), Table 2.1-7 (major recreational and attractions), Table 2.1-8 hospitals and nursing homes, and Table 2.1-9 (schools) within the 10 mi (16 km) radius. The tables include addresses, and latitude and longitude coordinates in relation to the BBNPP site. The area has six major employers: Berwick Hospital Center (population 600), Berwick Offray (population 600-700), Berwick Retirement Village (population 131), DeLuxe Building Systems (population 300), PPL Susquehanna (Population 1,460 including onsite contractors), and Wise Foods (population 700).

Recreational areas consist of seven camping facilities. The largest, Camp Louise, is operated by the Girl Scouts in the Heart of Pennsylvania Council. During June through August the camping population is 250-350 persons, and weekend camping throughout the year can reach a maximum of 300 persons. Camp Setebaid utilizes facilities at Camp Louise for a two week period, July 8 through August 9. for 170 diabetic children and camp staff.

The Berwick Hospital Center (population 941) and Berwick Retirement Village (population 371) are located within Berwick with a combined capacity of 1,312 persons.

The area has 13 elementary, middle, and high schools with the 10 mi (16 km) radius with a total student and staff population of 5,473. The area contains no museums or historical sites with transient populations. The SCI Retreat (a prison facility) with a listed capacity of 806 inmates is located within 8.1 m (13 km) of BBNPP. Luzerne County Community College operates a satellite campus in Berwick. The student population is comprised of local residents and there are no dormitory facilities for a transient population (PED, 2008).

The daily transient population within the 10 mi (16 km) radius is estimated at 13,187. This estimate will fluctuate during the summer, and reaches the maximum number during the recreational camping period from April to October.}

2.1.3.3.2 Transient Population Between 10 and 50 mi (16 and 80 km)

{A general discussion of transient population for the 10 to 50 mi (16 to 80 km) radius is provided below. A quantitative estimate of the transient population for the 10 to 50 mi (16 to 80 km) radius is not provided for the following reasons:

1. There are no significant centers of transient population between 10 and 50 mi (16 to 80 km) from the BBNPP site;
2. Back Mountain, PA located approximately 20 miles (32 km) from BBNPP with a population of 26,690, Wilkes-Barre located approximately 20 miles (32 km) from BBNPP with a population of 43,123, and Scranton, PA located approximately 35 miles (56 km) from BBNPP, are the largest centers of transient population (tourist, commuters, and other business travelers), and resident population centers that dilute the proportion of transients.
3. The BBNPP site is not located in an area where there is a significant population increase due to transient land use, such as recreational, agriculture or industrial. The counties of Columbia and Luzerne experience a daytime net increase of 6,243 commuting transients, primarily due to the lack of significant population centers in the 10 mi (80 km) radius.

Allentown, PA (population 106,632) is the largest population center intersected by the 50 mi (80 km) radius with a significant transient population. Allentown has a transient population of approximately 5,218 people distributed as follows:

- 2,113 people in college dormitories and off campus housing,
- 1,027 people in local jails and other confinement facilities (including police lockups),
- 880 people in nursing homes,
- 223 people in hospitals/wards and hospices for chronically ill,
- 222 people in military hospitals or wards for chronically ill,
- 153 people in other non-institutional group quarters, 108 people in homes or halfway houses for drug/alcohol abuse,
- 106 people in other non-household living situations,
- 99 people in homes for the physically handicapped,
- 76 people in homes for the mentally retarded,
- 56 people in mental (psychiatric) hospitals or wards,
- 53 people in halfway houses,

- 44 people in homes for the mentally ill,
- 25 people in religious group quarters,
- 16 people in training schools for juvenile delinquents,
- 12 people in job corps and vocational training facilities,
- 5 people in wards in general hospitals for homeless patients (USCB, 2000).

The Lehigh Valley International Airport (ID: ABE) is located in Allentown, PA and has an average monthly passenger population of 71,192.}

2.1.3.4 Low Population Zone

The Low Population Zone (LPZ) for {Bell Bend is a 1.5 mi (2.4 km) radius centered on BBNPP. It is completely contained within the LPZ for SSES Units 1 and 2 which consists of the area within a 3 mi (4.8 km) radius of the SSES Unit 1 (Figure 2.1-24). For conservatism, the BBNPP LPZ will be defined as the entire area of the SSES Units 1 and 2 LPZ. The communities of Beach Haven, East Berwick, Nescopeck, and Wapwallopen lie within the LPZ. There are no nursing homes, hospitals, prisons, or schools operating within the LPZ. The major employer within the LPZ is the PPL Susquehanna, LLC.}

The resident and transient population distributions within the existing LPZ for each decade from {2000 through 2060} is denoted as the 2 mi (3.2 km) cumulative population on Figure 2.1-7 through Figure 2.1-13. The population within the LPZ including years {2018 and 2058, the expected year of initial operation and the expected year of license expiration for BBNPP} are summarized in Table 2.1-11.

{There is a significant increase in daily transient population at the BBNPP site. Residents in the LPZ would have the highest population at night as resident return from commutes to worksites within Luzerne and surrounding counties (Table 2.1-10).}

In accordance with 10 CFR 50.34(a)(1)(ii)(D)(2), an individual located on the outer radius of the LPZ for the course of the postulated accident (assumed to be 30 days) would not receive a radiation dose in excess of 25 rem TEDE (CFR, 2007b). {For SSES Units 1 and 2, the LPZ encompasses an area within 3 mi (4.8 km) radius from a centerpoint between the SSES Units 1 and 2 Reactor Buildings. It has been determined that the BBNPP could achieve the 25 rem TEDE within 1.5 mi (2.4 km). Onsite emergency preparedness personnel have developed an Emergency Planning Zone (EPZ) that extends beyond the BBNPP site boundary and its Radioactive Emergency Plan establishes evacuation routes both onsite and offsite. Under these plans, emergency preparedness personnel would have ample time to take appropriate protective measures to all affected individuals within and beyond the LPZ.}

Facilities and institutions in and beyond the LPZ that may require special consideration when evaluating emergency plans are defined out to a distance of 10 mi (16 km). {The 10 mi (16 km) radius includes the LPZ and approximates the SSES Units 1 and 2 EPZ. Hospitals and nursing homes within the EPZ are listed in Table 2.1-8. Schools within the EPZ are listed in Table 2.1-9. There are no major recreational areas and attractions in the LPZ.}

2.1.3.5 Population Center

{The nearest population centers that meet the definition contained in 10 CFR 100.3 (distance from the reactor to the nearest boundary of a densely populated center containing more than about 25,000 residents) are Back Mountain, PA located approximately 20 miles (32 km) from BBNPP with a population of 26,690, Wilkes-Barre located approximately 20 miles (32 km) from BBNPP with a population of 43,123, and Scranton, PA located approximately 35 miles (56 km) from BBNPP with a population of 76,415 (USCB, 2000). All three are located north-east of BBNPP. The distance between Back Mountain, Wilkes-Barre, Scranton, and the BBNPP site is approximately 12.5, 12.5, and 22.7 times the 1.5 mi (2 km) radius of the BBNPP LPZ respectively. Therefore, it meets the requirement that the population center distance be at least one and one-third times the distance from the reactor to the outer boundary of the LPZ as defined in 10 CFR Part 100.21(b) (CFR, 2007c). Transient populations were not used to establish the nearest population center.

The largest population center within the 10 mi (8 km) radial distance from the BBNPP is Berwick, PA. Berwick's population was 10,744 as reported in the 2000 Census Report (USCB, 2000).}

2.1.3.6 Population Density

This section describes populations and resulting population densities in the years of initial operation and the end of operations. For the purposes of this study, it is assumed that initial operation of {BBNPP begins in 2018 and the end of operation is upon license expiration which is projected to be 2058}, 40 years thereafter.

{Additional population data is illustrated for the decades 2000 through 2060 in Figure 2.1-7 through Figure 2.1-13 for the 10 mi (16 km) vicinity and in Figure 2.1-16 through Figure 2.1-23 for the 50 mi (80 km) vicinity.}

Table 2.1-11 shows the cumulative population in year {2000} within 30 mi (48 km) of the {BBNPP site} and projected cumulative populations in years {2018}, (assumed year of initial operations) {the decadal years 2020 through 2060,} and {2058} (assumed year for end of operations). {Table 2.1-12 shows the actual (2000 Census) and projected population density (persons/mi^2)} to demonstrate that the population density does not exceed 500 persons/mi^2 (200 persons/km^2) at the time of the projected COL approval and within 5 years thereafter consistent with guidance provided in Regulatory Guide 4.7, Position C.4 (NRC, 1998) and Regulatory Guide 1.206 (NRC, 2007). {The population for the startup year (2018) is below a population density of 500 persons/mi^2 (200 persons/km^2) for all radial distances 1,2, 3, 4, 5, 10, 20, and 30 mi (1.6, 3.2, 4.8, 6.4, 8.0, 16, 32, and 49 km). The highest population density at startup (2018) is projected to be 278.1 persons/mi^2 (111 persons/km^2) at the 20 mi (32 km) radial distance. The land area calculated at this distance is 1,256 mi^2 (3,253 km^2).}

{Table 2.1-11 presents the total population at the end of operations data (2058). For all radial distances 1,2, 3, 4, 5, 10, 20, and 30 mi (1.6, 3.2, 4.8, 6.4, 8.0, 16, 32, and 49 km), the population is below the 1000 persons/mi^2 (400 persons/km^2) density criterion. The highest projected population density in 2060 is 352.5 persons/mi^2 (136.1 persons/km^2) at the 20 mi radial distance. The land area at the 20 mi (32 km) radial distance is 1,256 mi^2 (3,253 km^2).}

2.1.4 REFERENCES

This section is added as a supplement to the U. S. EPR FSAR.

{CFR, 2007a. Title 10, Part 20, Code of Federal Regulations, Standards for Protection Against Radiation, 2007.

CFR, 2007b. Title 10, Part 50.34, Code of Federal Regualtions, Contents of construction permit and operating license applications; technical information, 2007.

CFR, 2007c. Title 10, Part 100, Code of Federal Regulations, Reactor Site Criteria, 2007.

PED, 2008. Pennsylvania Department of Education, 2008. School Tree.org, Website: http://pennsylvania.schooltree.org/counties-page1.html, Date accessed: May 2008.

NRC, 1998. General Site Suitability Criteria for Nuclear Power Stations. Regulatory Guide 4.7, Rev 2, Nuclear Regulatory Commission, April 1998.

NRC, 2007. Combined License Applications for Nuclear Power Plants. Regulatory Guide 1.206, Nuclear Regulatory Commission, June, 2007.

PAC, 2008a. PA Census. Pennsylvania State Data Center. Website: http://pasdc.hbg.psu.edu/, Date Accessed May 2008.

PAC 2008b. PA Census. Population Projections, Pennsylvania Counties: 2000 To 2020 By 5 Year Increments. Website: http://pasdc.hbg.psu.edu/pasdc/PA_Stats/profiles_tables_and_charts/pennsylvania/pop_other/04XT1-16.html, Date accessed: May 2008.

SECPOP 2000, 2003. Sector Population, Land Fraction, and Economic Estimation Program (NUREG/CR-6525, Rev. 1). Division of Risk Analysis and Applications Office of Nuclear Regulatory Research, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001. Website: http://www.nrc.gov/reading-rm/doc-collections/nuregs/contract/cr6525/cr6525.pdf

USCB, 2000. Census 2000 Summary File 1 (SF 1) 100-Percent Data. Website: http://factfinder.census.gov, Date Accessed: May 2008.}

Table 2.1-1 {BBNPP Specific Location of the Center of the Containment Structure}

Latitude/Longitude (NAD 27) (Degrees)	Latitude/Longitude (NAD 83) (Degrees)	UTM, Zone 18N (78W to 72W) (NAD 27) (Meters)	UTM, Zone 18N (78W to 72W) (NAD 83) (Meters)
N 41° 05' 11"	41° 05' 12"	North/South 4,548,796	North/South 4,549,017
W 76° 09' 55"	76° 09' 54"	East/West 402,125	East/West 402,157

Table 2.1-2 {Population for Counties Within 10 mi (16 km) Radius of BBNPP}

Year	County Population		
	Columbia	Luzerne	Schuylkill
1990	63,202	328,149	152,585
2000	64,151	319,250	150, 336
2010	64,573	306,900	147,227
2018	66,586	300,094	147,477
2020	67,233	297,473	146,872
2030	69,944	288,847	146,567
2040	73,672	279,743	147,388
2050	78,209	271,440	149,159
2058	82,432	265,154	151,259
2060	83,570	263,632	151,879

Table 2.1-3 {SECPOP Population Within 10 mi (16 km) Radius of BBNPP (2000 - 2060) }

Year	Population Within 50 mi (80 km) Radius
2000	49,596
2010	51,942
2018	54,987
2020	55,087
2030	58,047
2040	62,685
2050	66,124
2058	69,027
2060	69,687

Table 2.1-4 {SECPOP Population Within 50 mi (80 km) Radius of BBNPP (2000 - 2060) }

Year	Population Within 50 mi (80 km) Radius
2000	1,661,993
2010	1,739,722
2018	1,842,901
2020	1,846,147
2030	1,945,412
2040	2,101,293
2050	2,216,209
2058	2,312,686
2060	2,335,586

Table 2.1-5 {Population Census and Projections (2010-2060) for Counties Within 50 mile (80 km) Radius of BBNPP}

County	Year								
	2000	2010	2018	2020	2030	2040	2050	2058	2060
Berks	373,638	412,708	444,048	451,816	493,080	535,110	578,408	613,904	622,897
Bradford	62,761	60,763	60,385	59,528	58,864	56,269	53,449	50,765	50,035
Carbon	58,802	63,311	65,750	67,079	69,340	72,990	76,251	78,846	79,493
Columbia	64,151	64,573	66,586	67,233	69,944	73,672	78,209	82,432	83,570
Dauphin	251,798	256,478	263,206	263,198	270,543	273,403	275,469	275,965	275,929
Lackawanna	213,295	205,061	201,121	199,867	195,388	191,130	187,888	185,880	185,459
Lebanon	120,327	122,619	126,382	126,397	131,470	134,601	137,986	140,537	141,152
Lehigh	312,090	318,365	331,428	331,455	350,262	363,206	378,223	390,496	393,599
Luzerne	319,250	306,900	299,756	297,473	288,847	279,743	271,440	265,154	263,632
Lycoming	120,044	116,071	114,579	113,434	110,322	104,923	98,806	93,136	91,610
Monroe	138,687	173,612	202,324	208,641	240,385	268,017	292,765	310,264	314,319
Montour	18,236	17,299	17,293	17,018	17,080	16,604	16,240	15,927	15,845
Northampton	267,066	288,886	308,282	313,925	338,632	366,453	395,801	420,586	426,964
Northumberland	94,556	93,363	92,858	93,121	92,481	93,104	94,153	95,414	95,788
Pike	46,302	63,739	77,120	81,017	94,707	108,479	120,573	129,276	131,317
Schuylkill	150,336	147,227	146,832	146,872	146,567	147,388	149,159	151,259	151,879
Snyder	37,546	38,358	38,853	39,140	39,068	39,116	38,800	38,352	38,212
Sullivan	6,556	6,352	6,418	6,330	6,303	5,993	5,622	5,245	5,140
Susquehanna	42,238	48,625	73,987	61,846	77,835	128,036	160,626	190,307	198,229
Union	41,624	46,497	49,407	50,174	52,471	53,981	54,346	53,867	53,640
Wayne	47,722	52,604	59,025	60,781	67,349	74,478	81,703	87,572	89,052
Wyoming	28,080	26,919	24,045	24,075	20,631	19,888	17,999	16,487	16,109
Total	2,815,105	2,930,330	3,069,685	3,080,420	3,231,569	3,406,584	3,563,916	3,691,669	3,723,870

Table 2.1-6 {Transient Population Facilities - Major Employers Within 10 mi (16 km) Radius of BBNPP}

Name of Facility	Address	Location	Population
Berwick Hospital Center	701 East 16th Street Berwick, PA 18603	41° 4'13.47"N 76°13'50.49"W	600
Berwick Offray	2015 West Front Street Berwick, PA 18603	41° 2'51.00"N 76°16'19.64"W	600-700
Berwick Retirement Village	801 East 16th Street Berwick, PA 18603	41° 4'13.30"N 76°13'47.32"W	131
DeLuxe Building Systems	499 West Third Street Berwick, PA 18603	41° 3'14.08"N 76°14'29.42"W	300
PPL Susquehanna	769 Salem Blvd. Berwick PA 18603	41° 5'30.60"N 76° 8'45.80"W	1460
Wise Foods	228 Rasely Street Berwick, PA. 18603	41° 2'48.77"N 76°15'1.54"W	700

Table 2.1-7 {Transient Population Facilities - Major Recreational Areas and Attractions Within 10 mi (16 km) Radius of BBNPP}

Name of Facility	Address	Location	Population
Acorn Acres	1334 State Road 118 Benton, PA 17814	41°10'32.22"N 76°16'49.43"W	April-October 346
Camp Louise Girl Scouts in the Heart of Pennsylvania	195 Hawk Road Shickshinny, PA 18655	41°11'8.70"N 76°11'3.08"W	June-August 250-350 Weekends 300
Camp Setebaid	195 Hawk Road Shickshinny, PA 18655	41°11'8.70"N 76°11'3.08"W	July-August 170
Council Cup Campground	212 Ruckle Hill Road Wapwallopen, PA 18660	41° 6'16.43"N 76° 5'27.28"W	250-300 Year Round April-October 295
Good's Campground	288 State Road 118 Benton, PA 17814	41°10'32.22"N 76°16'49.43"W	April-October 100-300 Weekend 10 Weekly
Hidden New Lake Campground	745 Hunlock Harveyville Rd Shickshinny, PA 18655	41°13'8.78"N 76°13'7.37"W	April-October 200-300
Whispering Pines Camping Estates	1557 N Bendertown Road Stillwater, PA 17878	41°10'47.17"N 76°19'10.74"W	April-October 250
Susquehanna Riverlands	634 Salem Blvd. Berwick, PA 18603	41°08'88.67"N 76°14'81.87"W	Year-round 100,000 people per year

Table 2.1-8 {Special Facilities - Hospitals and Nursing Homes Within the 10 mi (16 km) Zone}

Name of Facility	Address	Location	Population
Berwick Hospital Center	701 East 16th Street Berwick, PA 18603	41° 4'13.47"N 76°13'50.49"W	341/600 941
Berwick Retirement Village	801 East 16th Street Berwick, PA 18603	41° 4'13.30"N 76°13'47.32"W	240/131 371

Table 2.1-9 {Special Facilities - Schools Within 10 mi (16 km) Zone}

Name of School	Address	Location	Student Enrollment	Staff	Total Population
Salem Elementary School	810 East Tenth Street Berwick, PA 18603	41° 3'56.85"N 76°13'30.22"W	496	32	528
Fairview Friends School	1541 Fairview Ave Berwick, PA 18603	41° 3'4.25"N 76°15'34.68"W	12	4	16
Heritage Christian Academy	112 Butternut Street Berwick, PA 18603	41° 3'50.72"N 76°13'54.48"W	11	2	13
Fourteenth Street Elementary School	1401 N Market Street, Berwick, PA 18603	41° 3'49.30"N 76°14'14.55"W	214	15	229
Mulberry Street Elementary	West Sixth & Mulberry Street Berwick, PA 18603	41° 3'24.32"N 76°14'19.95"W	104	10	114
Orange Street Elementary School	845 Orange Street Berwick, PA 18603	41° 3'6.76"N 76°14'38.89"W	386	29	415
Berwick Area High School	1100 Fowler Ave Berwick, PA 18603	41° 3'57.74"N 76°13'45.82"W	992	70	1062
Nescopek Elementary School	315 Dewey Street Nescopek, PA 18635	41° 3'5.03"N 76°12'54.48"W	276	19	295
Berwick Area Middle School	1100 Evergreen Drive Berwick, PA 18603	41° 4'11.85"N 76°13'45.59"W	897	68	1260
Garrison Memorial School	West Vine Street Shickshinny, PA 18655	41° 9'9.70"N 76° 9'6.89"W	186	12	198
Hunlock Creek School	21 Sunset Lake Road Shickshinny, PA 18655	41°11'59.86"N 76° 7'17.38"W	304	17	321
Huntington Mills School	417 Shickshinny Lake Road Shickshinny, PA 18655	41°11'31.43"N 76°13'56.48"W	315	19	334
Northwest Area High School	243 Thorne Hill Road Shickshinny, PA 18655	41°10'58.83"N 76°11'23.38"W	646	42	688

Table 2.1-10 {Commuting Patterns To and From Columbia and Luzerne Counties (2000)}

(Page 1 of 2)

Parameter	County	Count
Worker Outflow from Columbia and Luzerne County to Counties in 50 mi (80 km) Radius	Berks	196
	Bradford	39
	Carbon	653
	Dauphin	271
	Lackawanna	8,190
	Lebanon	81
	Lehigh	828
	Lycoming	431
	Monroe	1,706
	Montour	2,146
	Northampton	159
	Northumberland	1,117
	Pike	306
	Schuylkill	1,582
	Snyder	69
	Sullivan	114
	Susquehanna	71
	Union	240
	Wayne	163
	Wyoming	910
	Total	19,272
Worker Outflow from Columbia and Luzerne Counties to Areas Outside 50 mi (80 km) Radius	Total	2,966
Worker Inflow to Columbia and Luzerne County from Counties in 50 mi (80 km) Radius	Berks	78
	Bradford	91
	Carbon	2,242
	Dauphin	54
	Lackawanna	6,993
	Lebanon	45
	Lehigh	245
	Lycoming	469
	Monroe	667
	Montour	1,056
	Northampton	116
	Northumberland	1,290
	Pike	133
	Schuylkill	3,750
	Snyder	96
	Sullivan	75
	Susquehanna	234
	Union	56
	Wayne	327
	Wyoming	2,214
	Total	20,231

Table 2.1-10 {Commuting Patterns To and From Columbia and Luzerne Counties (2000)}

Parameter	County	Count
Worker Inflow to Columbia and Luzerne Counties from Areas Outside 50 mi (80 km) Radius	Total	8,250
Net Worker Inflow to Columbia and Luzerne Counties	Total	6,243

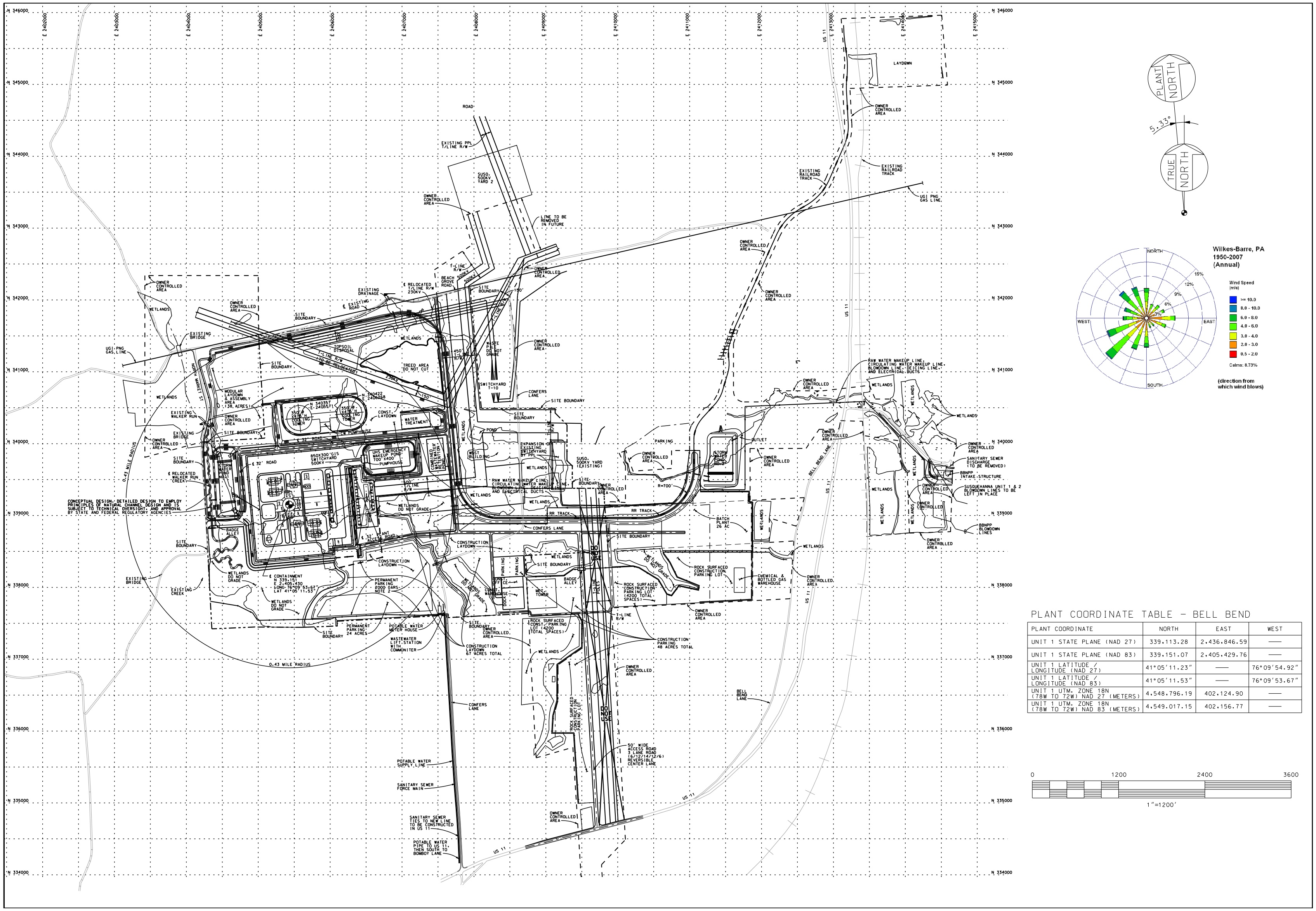
Table 2.1-11 {SECPOP Actual (2000) and Projected (2010-2060) Population Within the 1 mi (1.6 km) to 30 mi (48 km) Zones}

	SECPOP Radius (Land Area)							
	1 mi (1.6 km) (3.1 mi²)	**2 mi (3.2 km) (12.6 mi²)**	**3 mi (4.8 km) (28.3 mi²)**	**4 mi (6.4 km) (50.2 mi²)**	**5 mi (8.0 km) (78.5 mi²)**	**10 mi (16 km) (314 mi²)**	**20 mi (32 km) (1256 mi²)**	**30 mi (48 km) (2826 mi²)**
Year								
2000	280	1,334	2,733	9,935	18,691	49,596	315,044	603,635
2010	294	1,399	2,863	10,407	19,571	51,942	329,878	631,904
2018	310	1,480	3,030	11,016	20,726	54,987	349,330	669,325
2020	310	1,482	3,034	11,029	20,761	55,087	349,952	670,497
2030	327	1,563	3,200	11,625	21,871	58,047	368,776	706,585
2040	354	1,687	3,453	12,552	23,620	62,685	398,242	763,118
2050	373	1,778	3,644	13,246	24,916	66,124	420,071	804,887
2058	390	1,859	3,806	13,826	26,019	69,027	438,402	839,974
2060	393	1,873	3,840	13,961	26,261	69,687	442,752	848,289

Table 2.1-12 {SECPOP Actual (2000) and Projected (2010-2060) Population Density (persons/mi²) within the 1 mi (1.6 km) to 30 mi (48 km) Zones}

	SECPOP Radius (Land Area)							
	1 mi (1.6 km) (3.1 mi²)	**2 mi (3.2 km) (12.6 mi²)**	**3 mi (4.8 km) (28.3 mi²)**	**4 mi (6.4 km) (50.2 mi²)**	**5 mi (8.0 km) (78.5 mi²)**	**10 mi (16 km) (314 mi²)**	**20 mi (32 km) (1256 mi²)**	**30 mi (48 km) (2826 mi²)**
Year								
2000	90.3	105.9	96.6	197.9	238.1	157.9	250.8	213.6
2010	94.8	111.0	101.2	207.3	249.3	165.4	262.6	223.6
2018	100.0	117.5	107.1	219.4	264.0	175.1	278.1	236.8
2020	100.0	117.6	107.2	219.7	264.5	175.4	278.6	237.3
2030	105.5	124.0	113.1	231.6	278.6	184.9	293.6	250.0
2040	114.2	133.9	122.0	250.0	300.9	199.6	317.1	270.0
2050	120.3	141.1	128.8	263.9	317.4	210.6	334.5	284.8
2058	125.8	147.5	134.5	275.4	331.5	219.8	349.0	297.2
2060	126.8	148.7	135.7	278.1	334.5	221.9	352.5	300.2

Figure 2.1-1 {BBNPP Site Area Map}



PLANT COORDINATE TABLE - BELL BEND

PLANT COORDINATE	NORTH	EAST	WEST
UNIT 1 STATE PLANE (NAD 27)	339,113.28	2,436,846.59	——
UNIT 1 STATE PLANE (NAD 83)	339,151.07	2,405,429.76	——
UNIT 1 LATITUDE / LONGITUDE (NAD 27)	41°05'11.23"	——	76°09'54.92"
UNIT 1 LATITUDE / LONGITUDE (NAD 83)	41°05'11.53"	——	76°09'53.67"
UNIT 1 UTM. ZONE 18N (78W TO 72W) NAD 27 (METERS)	4,548,796.19	402,124.90	——
UNIT 1 UTM. ZONE 18N (78W TO 72W) NAD 83 (METERS)	4,549,017.15	402,156.77	——

Figure 2.1-2 {BBNPP Site 50 Mile (80 km) Radius}

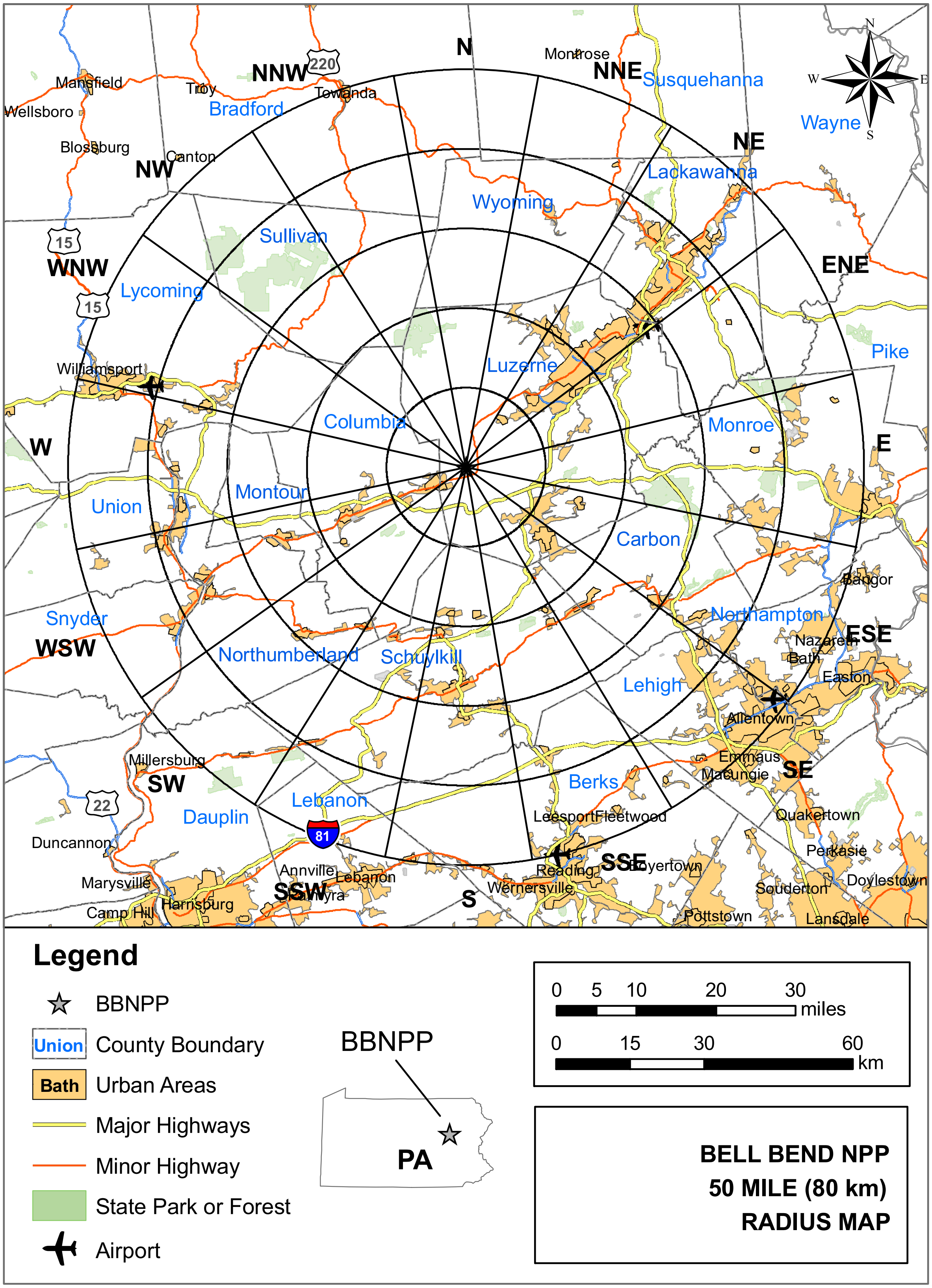


Figure 2.1-3 {BBNPP Site 10 Mile (16 km) Radius}

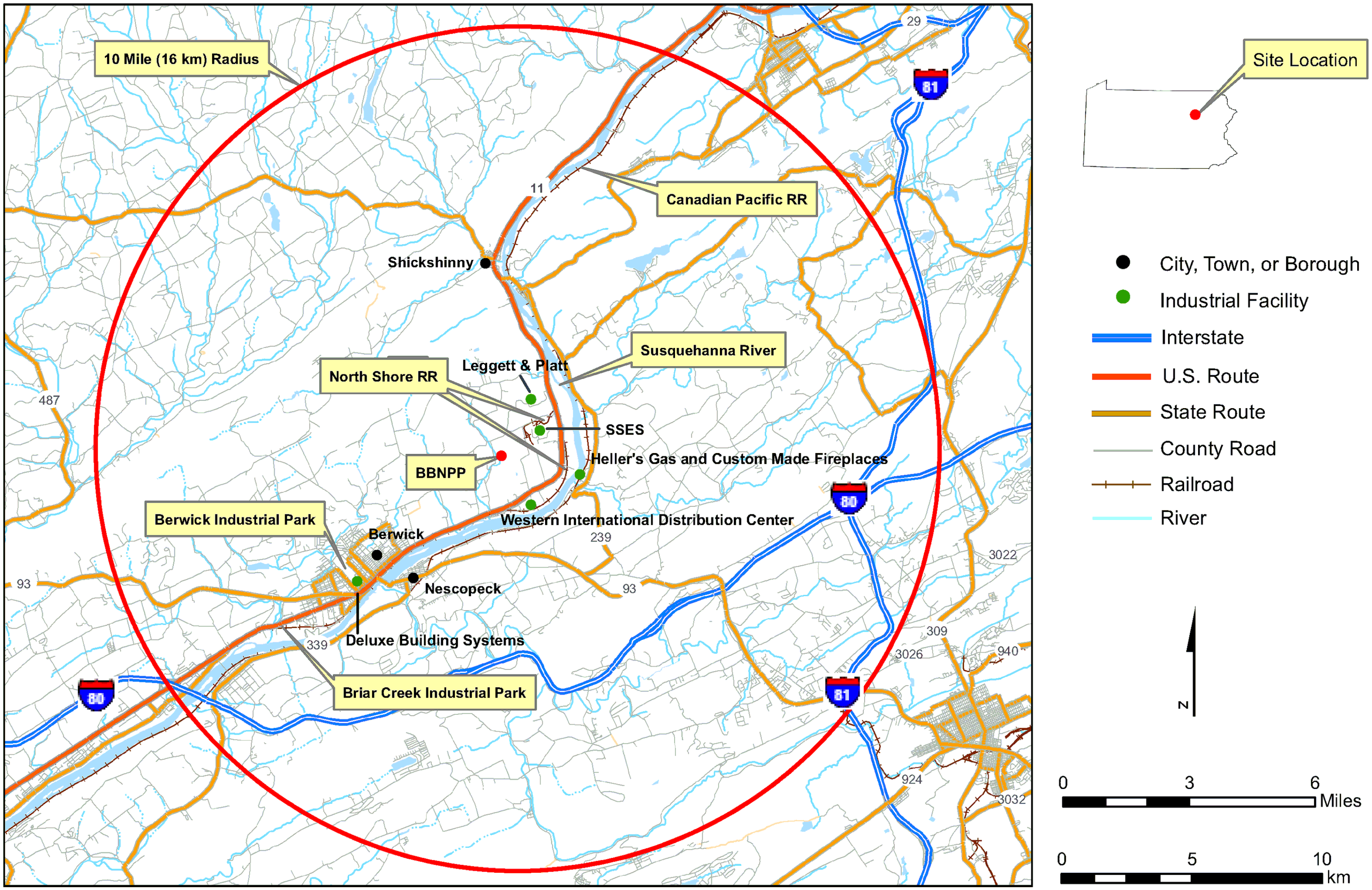


Figure 2.1-4 {BBNPP Exclusion Area Boundary}

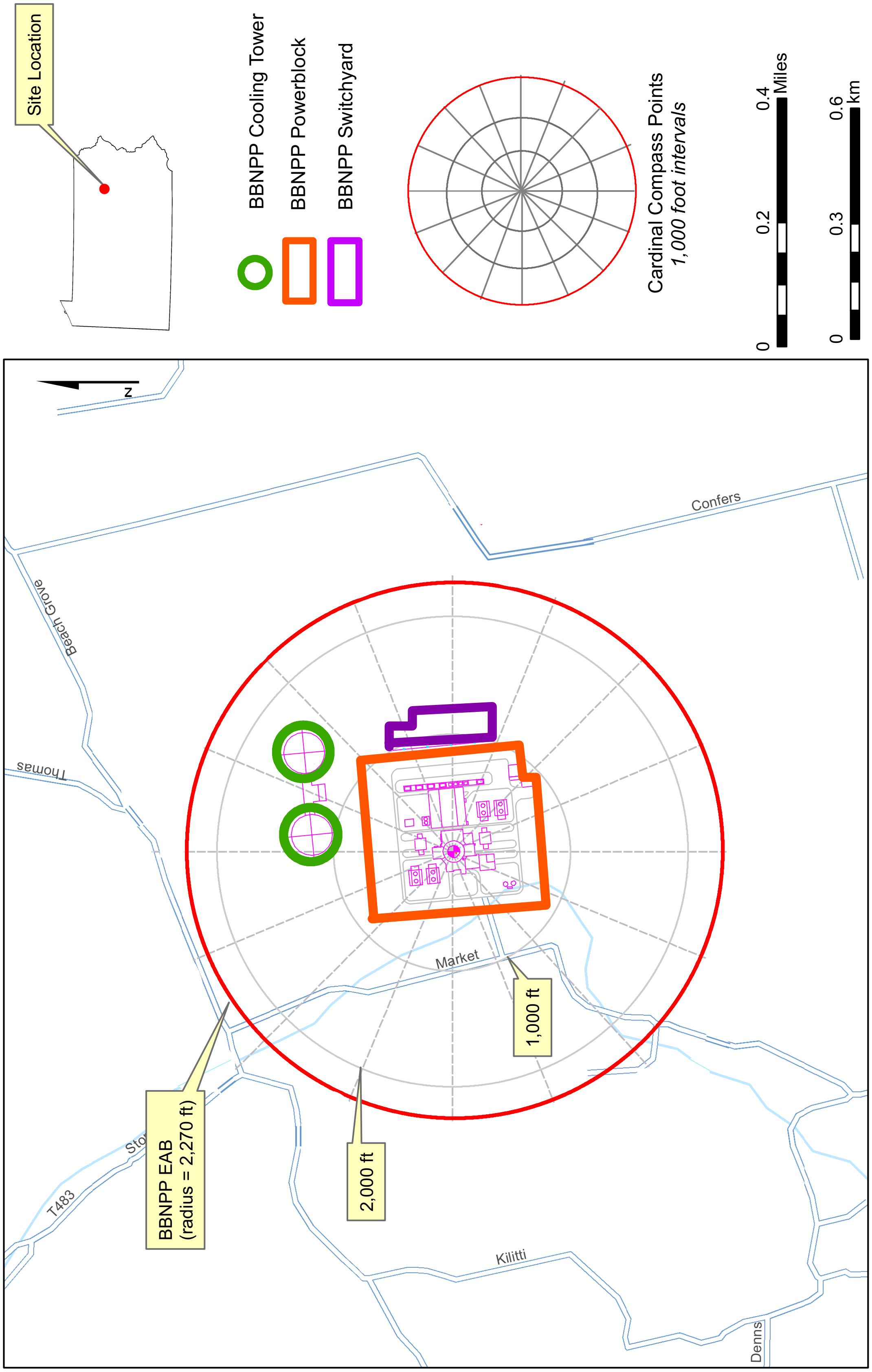


Figure 2.1-5 {BBNPP Principle Plant Structures}

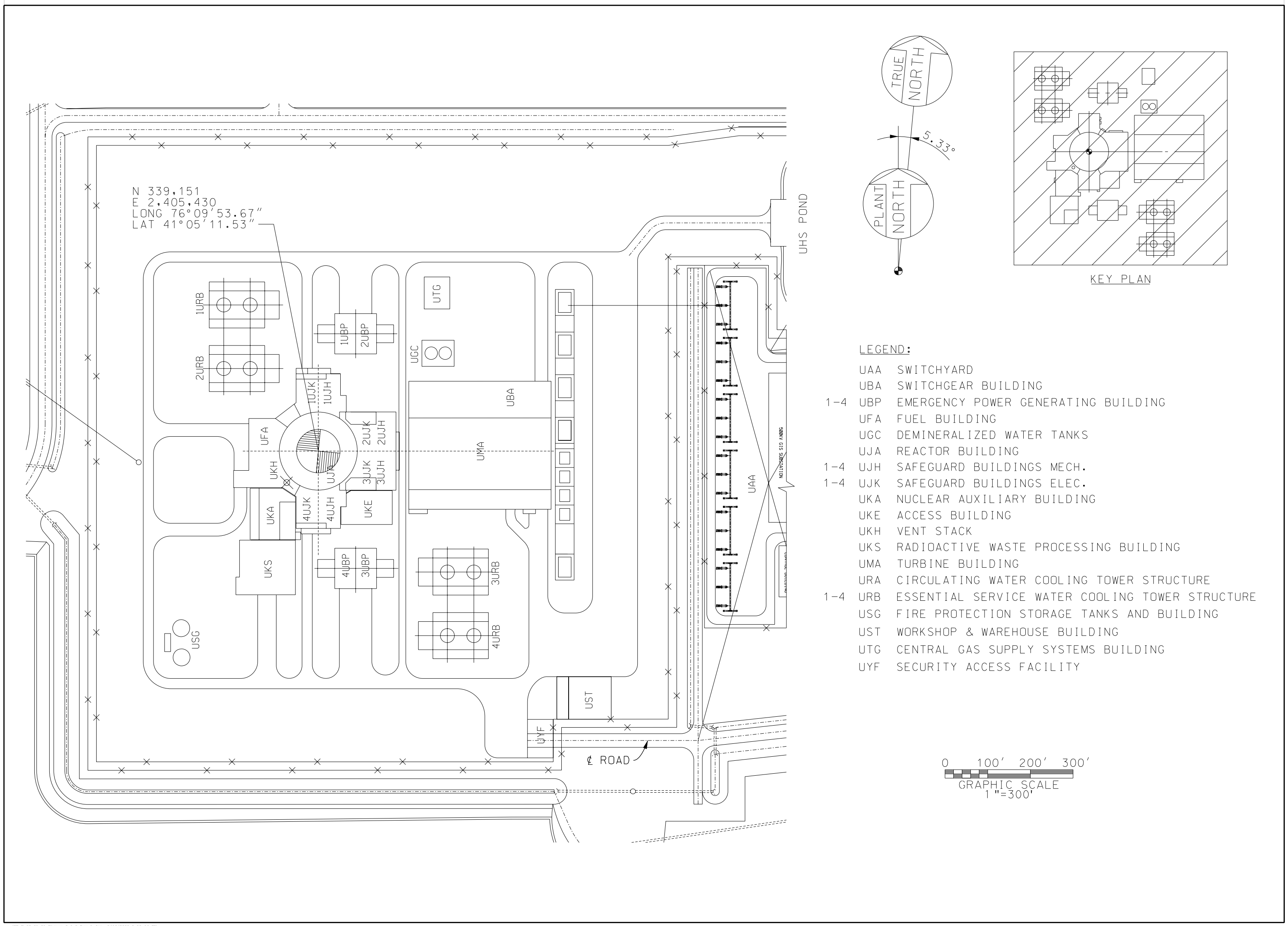


Figure 2.1-6 {BBNPP 10 Mile (16 km) Radius Map}

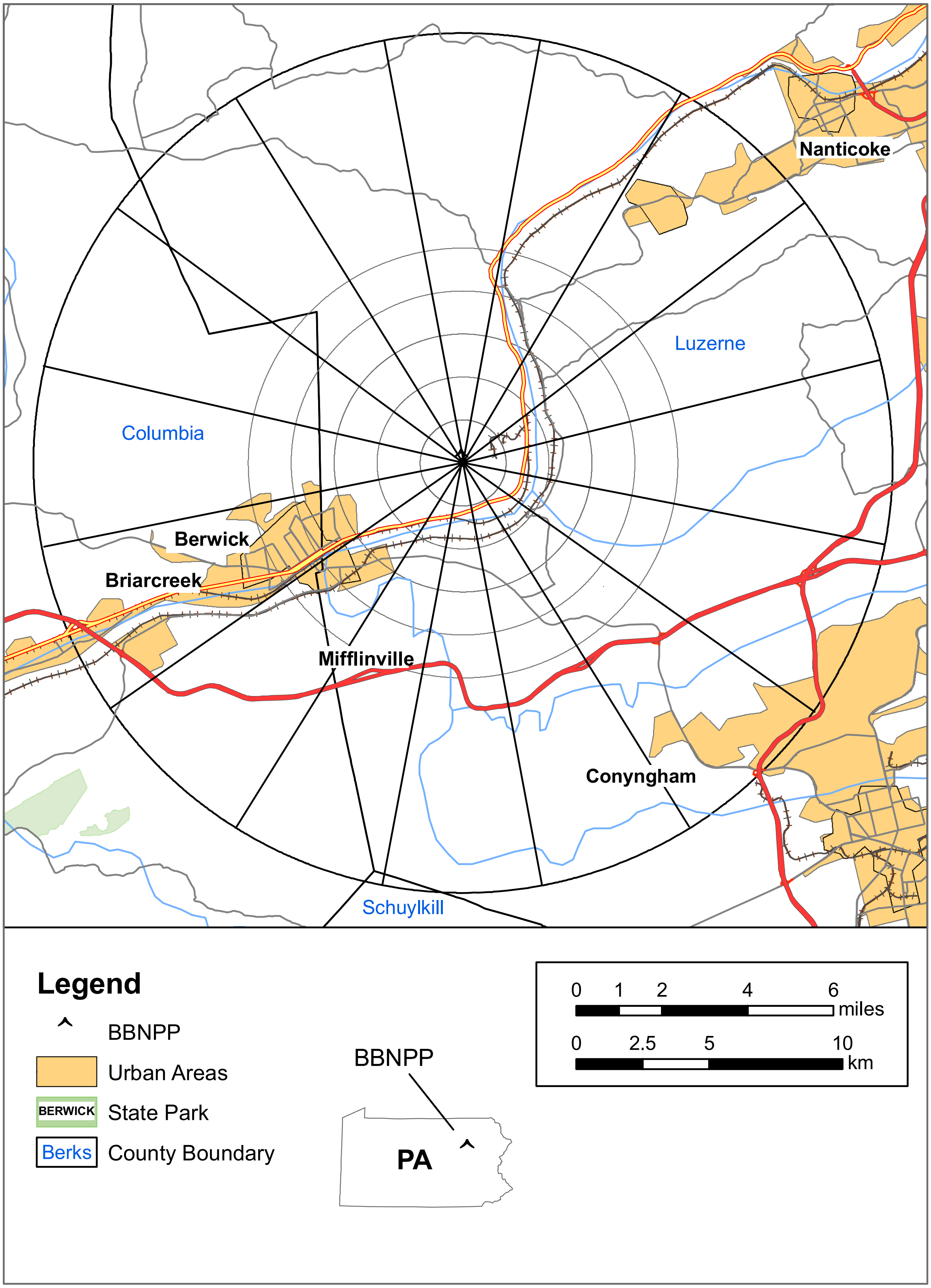
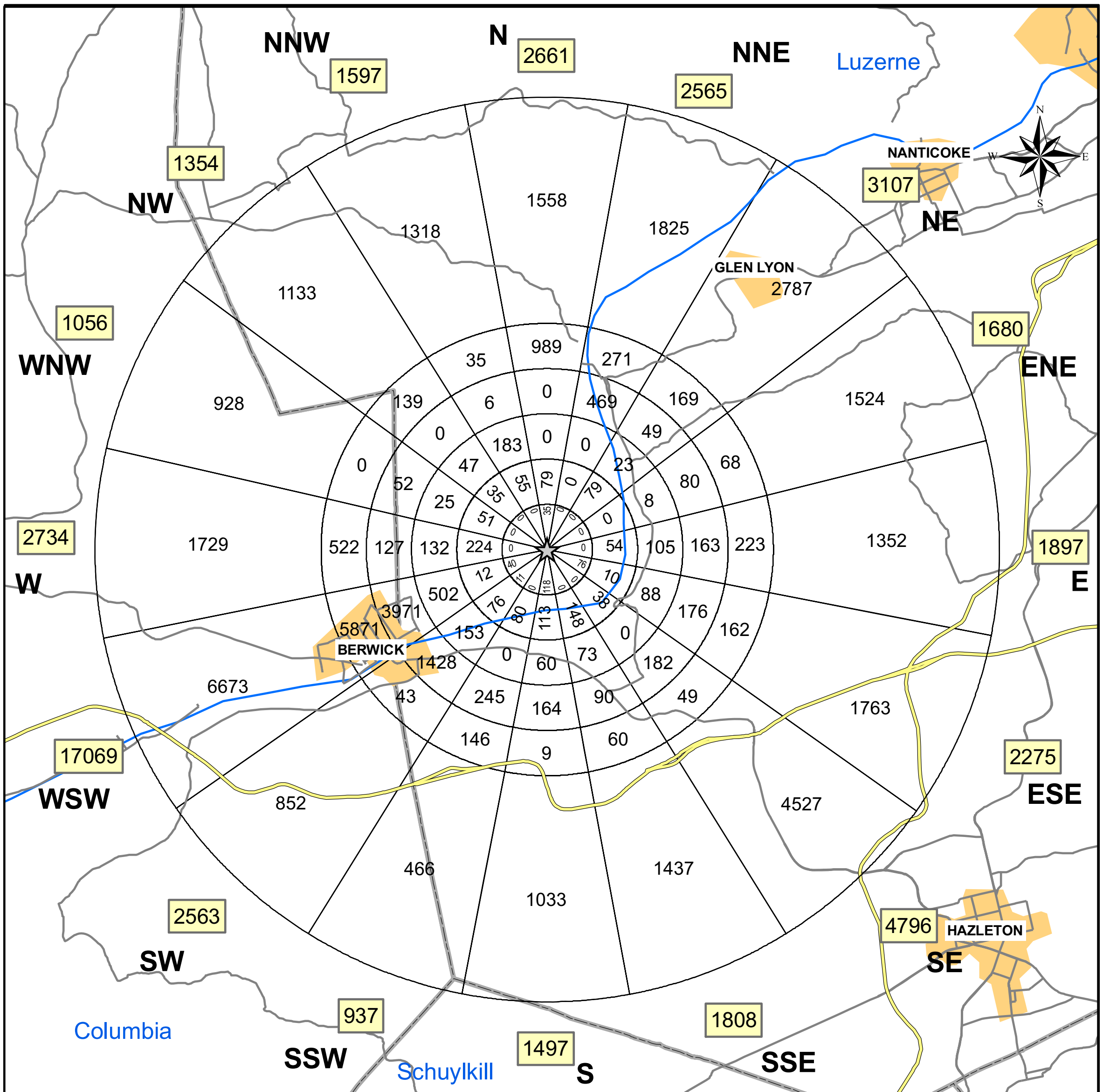


Figure 2.1-7 {BBNPP 10 Mile (16 km) 2000 Population Distribution}

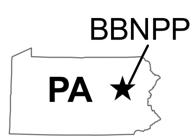


Legend

☆	BBNPP
Berks	County Boundary
45	Sector Population
2709	Sum by Direction
BERWICK	Urban Area
	Major Highways
	Secondary Roads
	Susquehanna River

Population Totals

Radius (Miles)	Ring Population	Cumulative Population
0 to 1	280	280
1 to 2	1,054	1,334
2 to 3	1,399	2,733
3 to 4	7,202	9,935
4 to 5	8,756	18,691
5 to 10	30,905	49,596

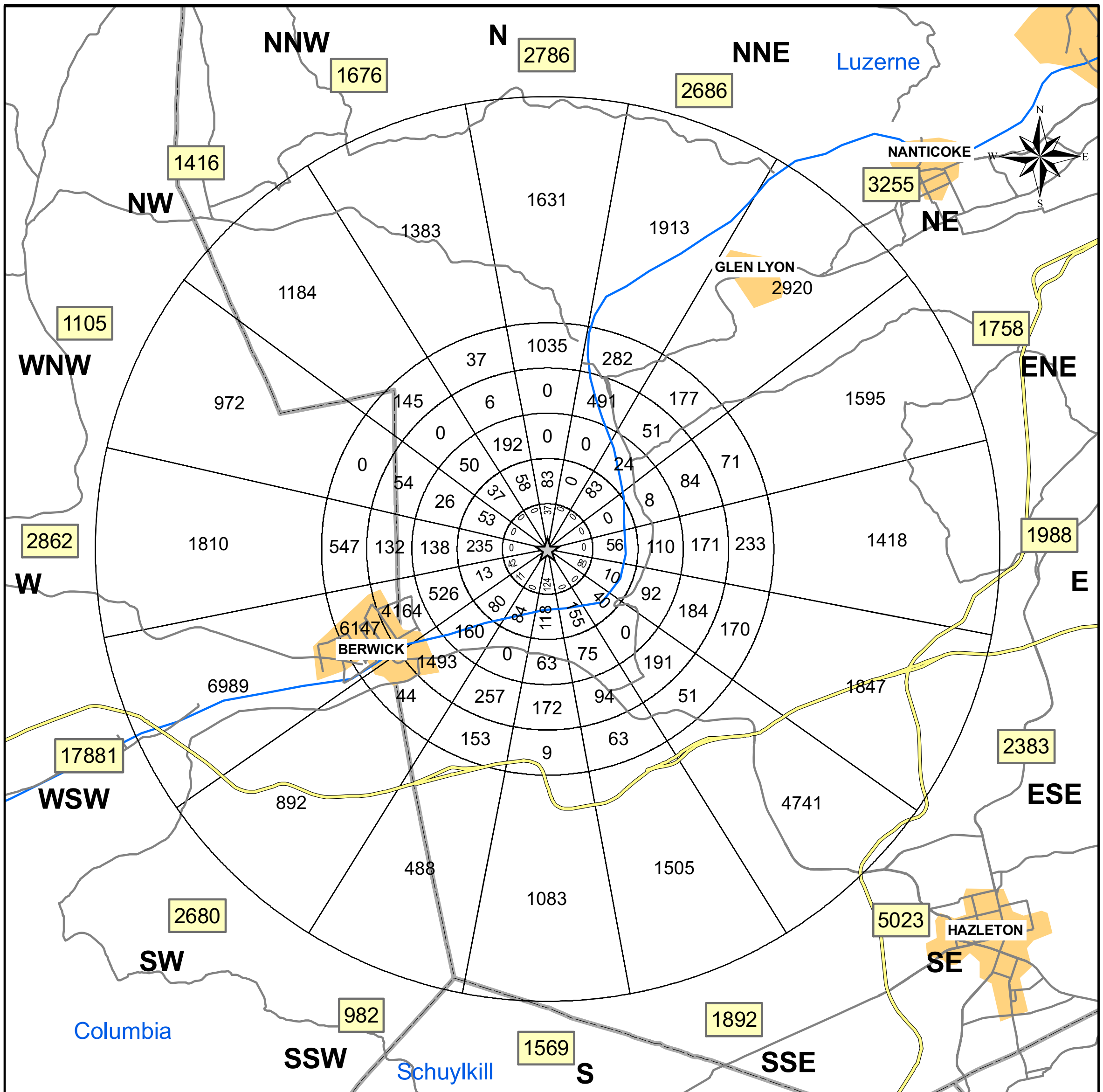


0 2.5 5 miles

0 2.5 5 10 km

BELL BEND NPP
10 MILE (16 km) 2000
POPULATION DISTRIBUTION

Figure 2.1-8 {BBNPP 10 Mile (16 km) 2010 Population Distribution}



Legend

☆ BBNPP

Berks County Boundary

45 Sector Population

2709 Sum by Direction

BERWICK Urban Area

Major Highway

Secondary Roads

Susquehanna River

Population Totals

Radius (Miles)	Ring Population	Cumulative Population
0 to 1	294	294
1 to 2	1,105	1,399
2 to 3	1,464	2,863
3 to 4	7,544	10,407
4 to 5	9,164	19,571
5 to 10	32,371	51,942

0 2.5 5 miles

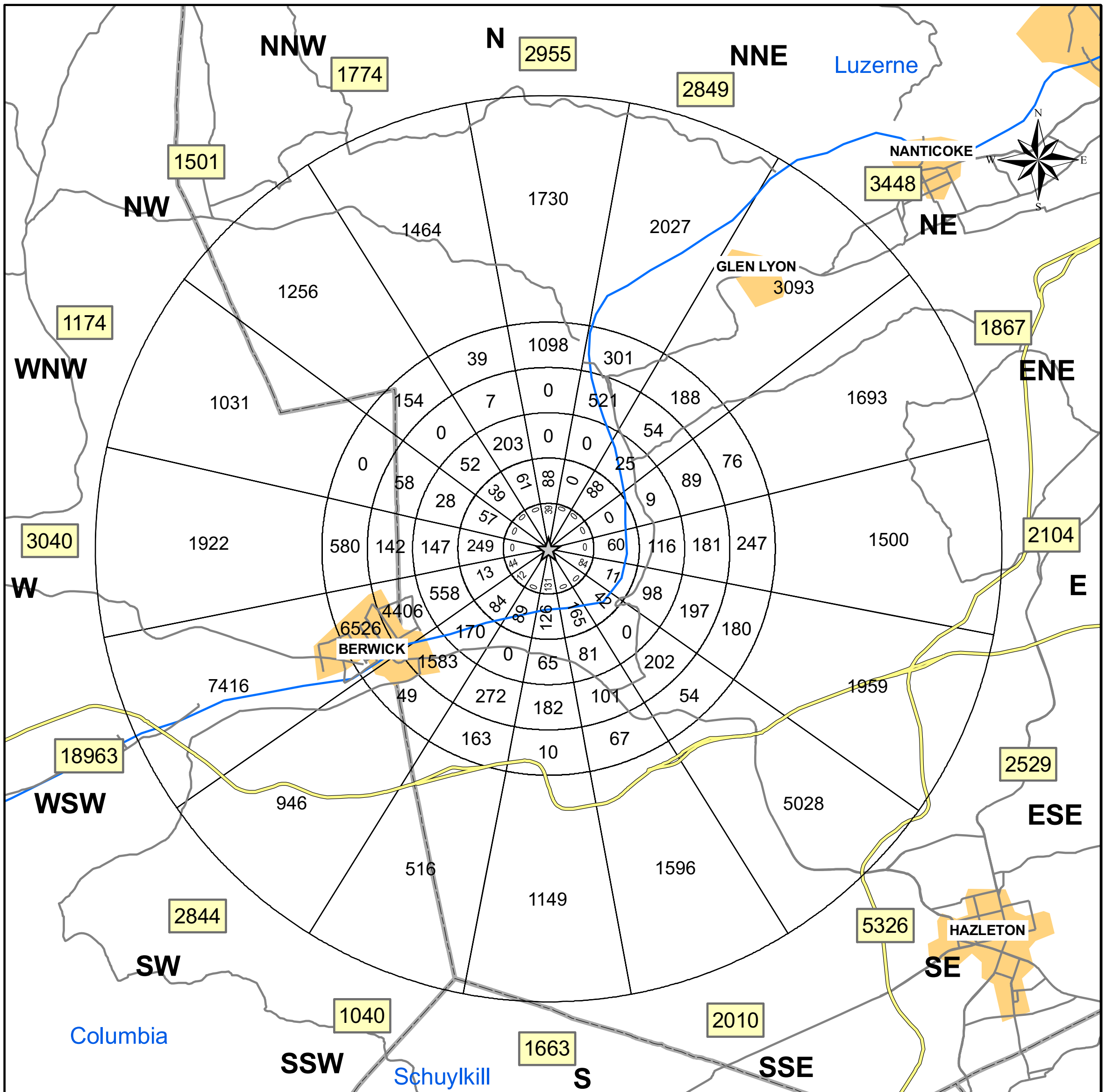
0 2.5 5 10 km

BBNPP

PA ★

BELL BEND NPP
10 MILE (16 km) 2010
POPULATION DISTRIBUTION

Figure 2.1-9 {BBNPP 10 Mile (16 km) 2020 Population Distribution}



Legend

☆ BBNPP

Berks County Boundary

45 Sector Population

2709 Sum by Direction

BERWICK Urban Area

Major Highway

Secondary Roads

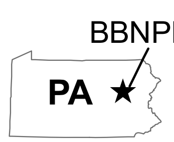
Susquehanna River

Population Totals

Radius (Miles)	Ring Population	Cumulative Population
0 to 1	310	310
1 to 2	1,172	1,482
2 to 3	1,552	3,034
3 to 4	7,995	11,029
4 to 5	9,732	20,761
5 to 10	34,326	55,087

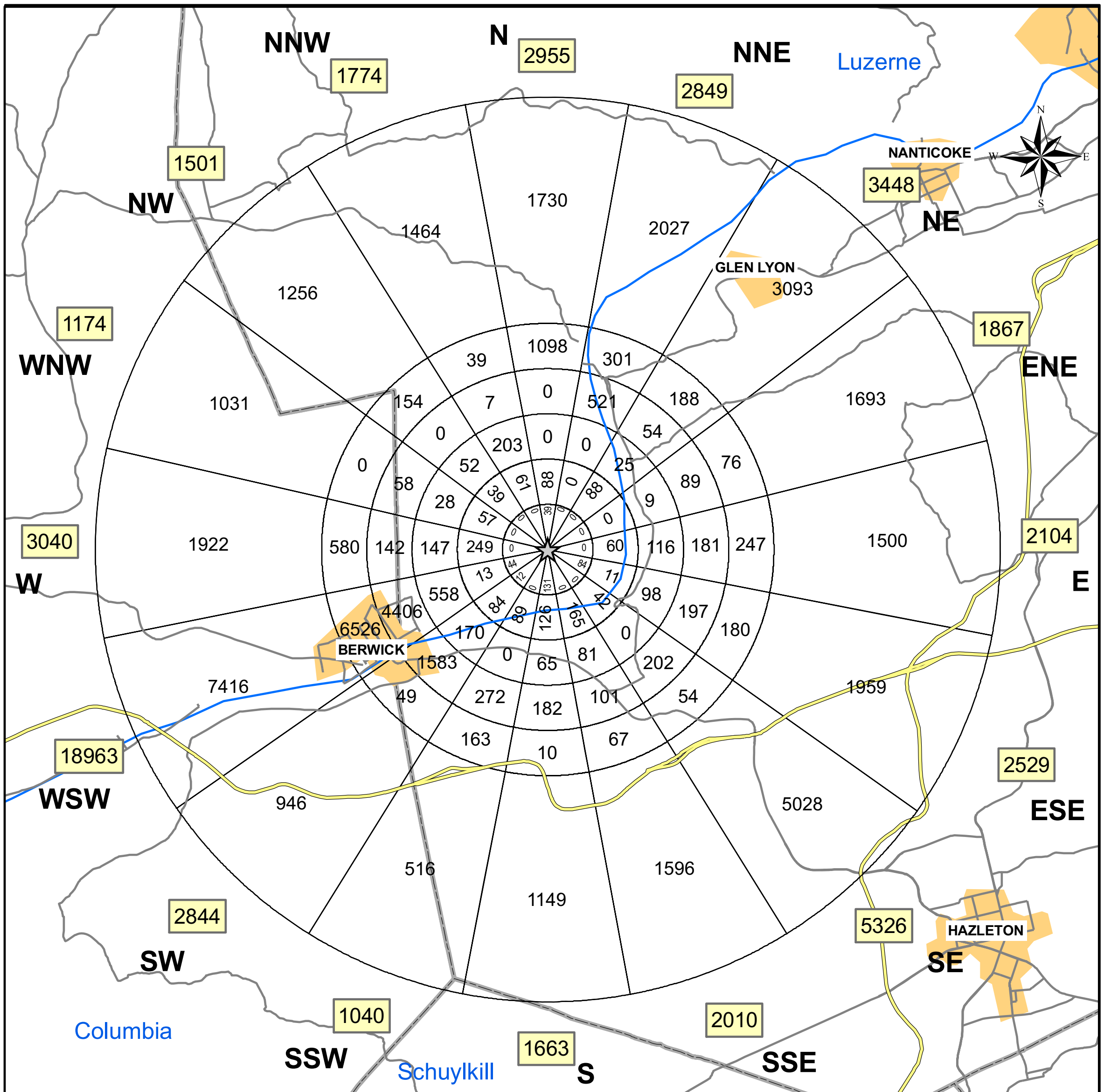
0 2.5 5 miles

0 2.5 5 10 km



BELL BEND NPP
10 MILE (16 km) 2020
POPULATION DISTRIBUTION

Figure 2.1-10 {BBNPP 10 Mile (16 km) 2030 Population Distribution}



Legend

BBNPP

Berks County Boundary

45 Sector Population

2709 Sum by Direction

BERWICK Urban Area

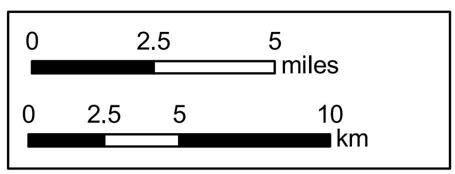
Major Highway

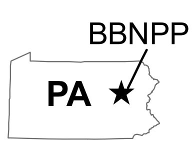
Secondary Roads

Susquehanna River

Population Totals

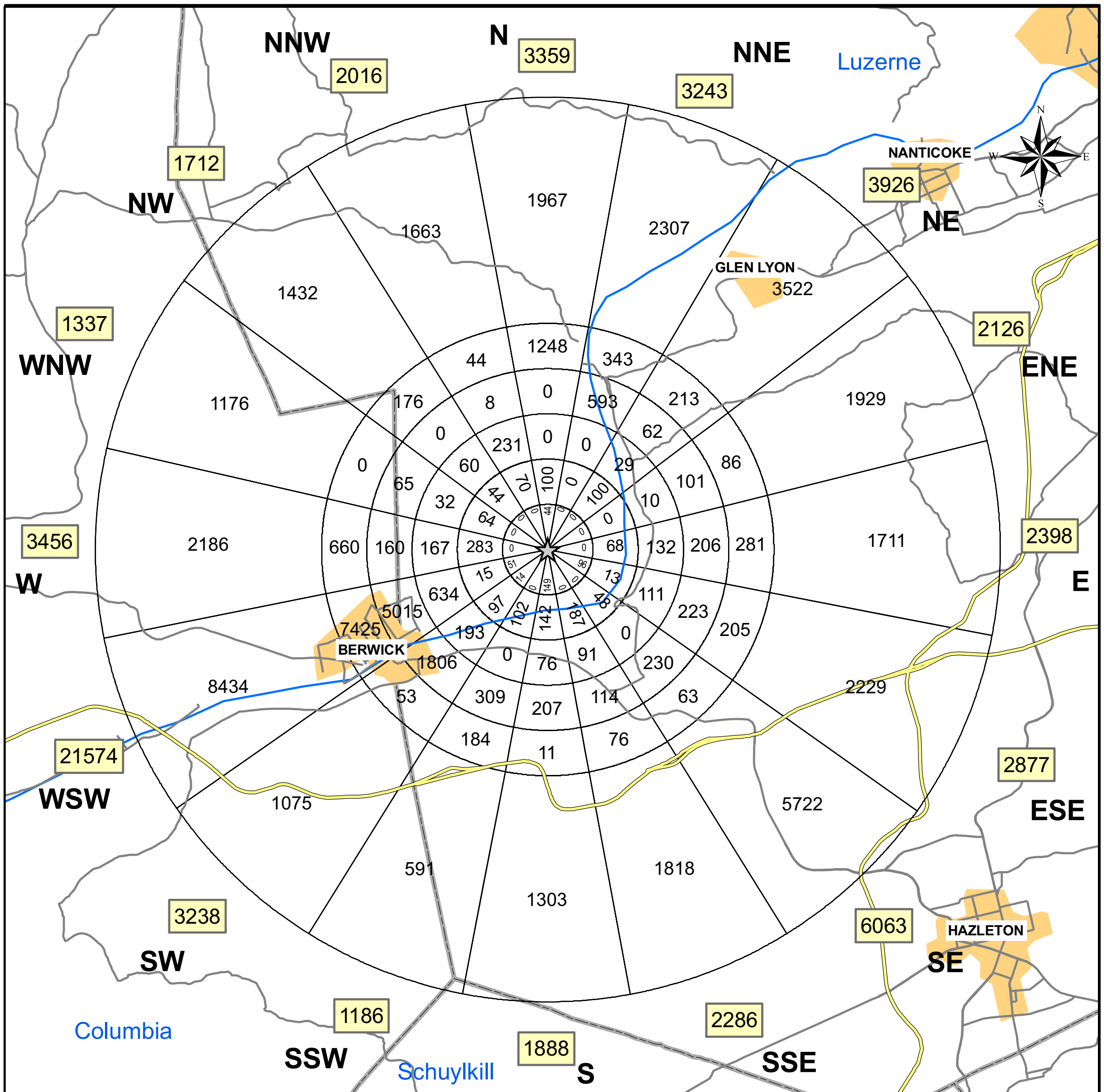
Radius (Miles)	Ring Population	Cumulative Population
0 to 1	327	327
1 to 2	1,236	1,563
2 to 3	1,637	3,200
3 to 4	8,425	11,625
4 to 5	10,246	21,871
5 to 10	36,176	58,047





BELL BEND NPP
10 MILE (16 km) 2030
POPULATION DISTRIBUTION

Figure 2.1-11 {BBNPP 10 Mile (16 km) 2040 Population Distribution}



Legend

BBNPP

Berks County Boundary

45 Sector Population

2709 Sum by Direction

BERWICK Urban Area

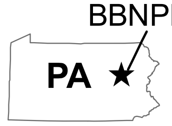
Major Highway

Secondary Roads

Susquehanna River

Population Totals		
Radius (Miles)	Ring Population	Cumulative Population
0 to 1	354	354
1 to 2	1,333	1,687
2 to 3	1,766	3,453
3 to 4	9,099	12,552
4 to 5	11,068	23,620
5 to 10	39,065	62,685

BBNPP

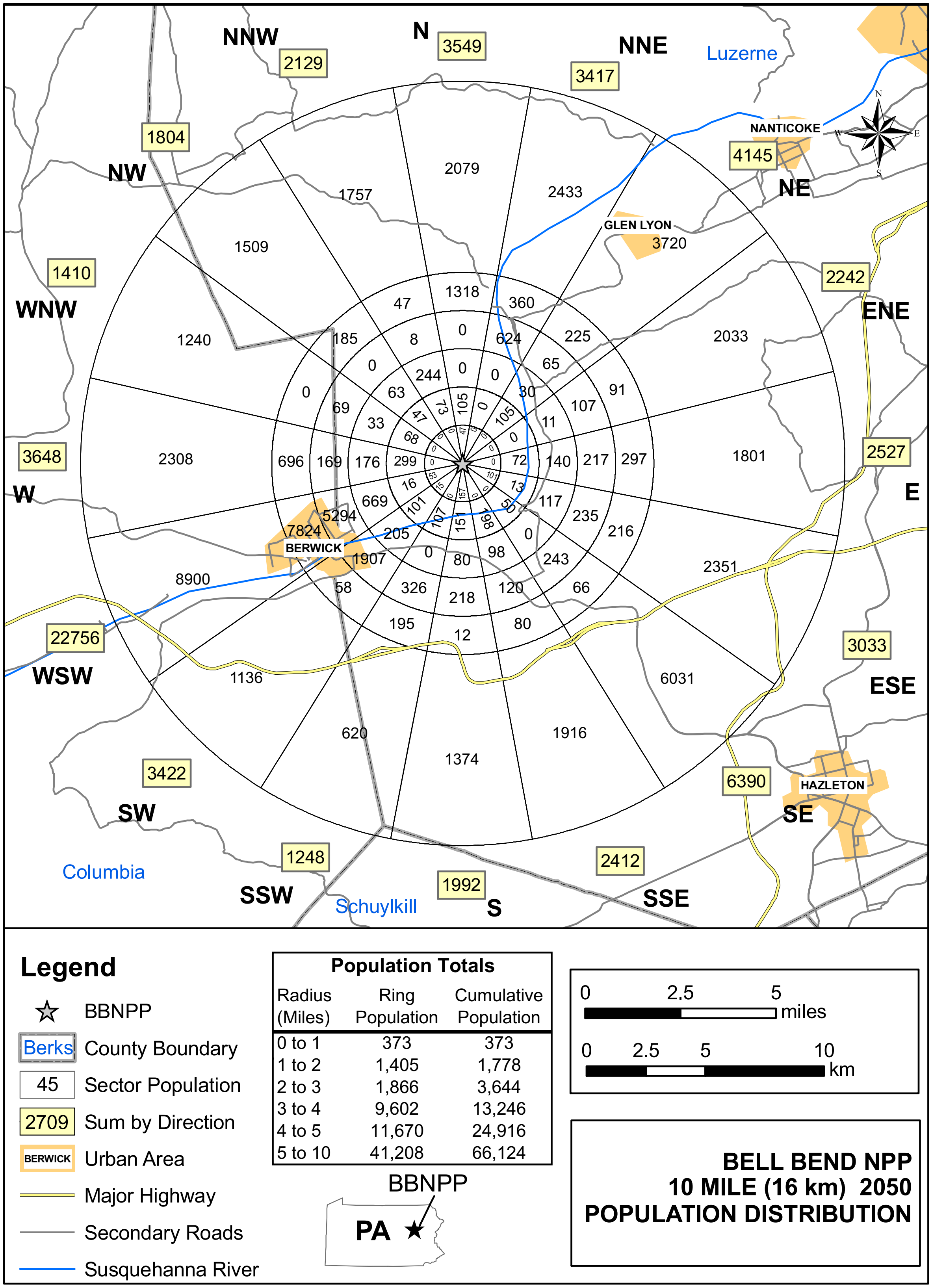


0 2.5 5 miles

0 2.5 5 10 km

BELL BEND NPP
10 MILE (16 km) 2040
POPULATION DISTRIBUTION

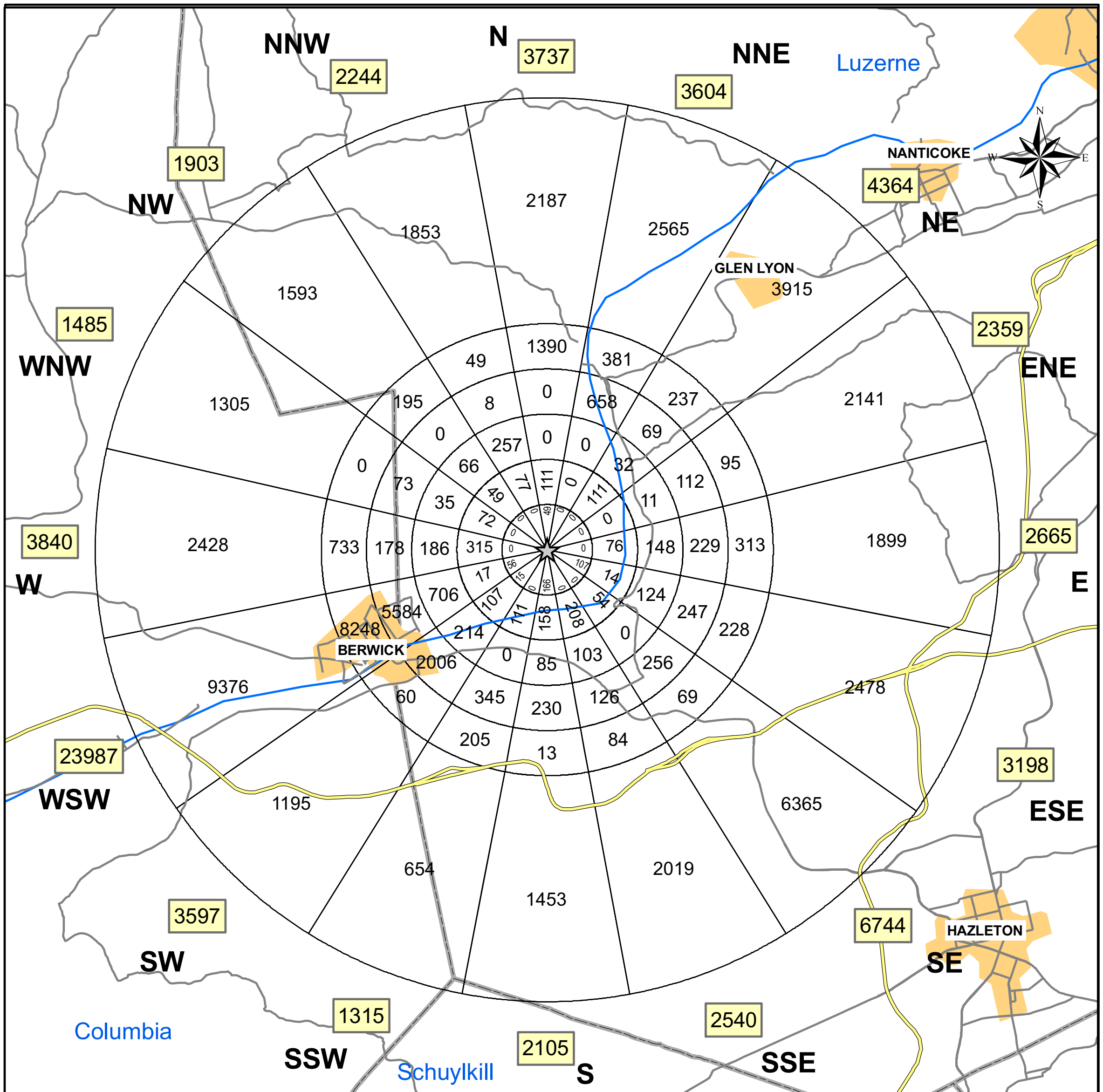
Figure 2.1-12 {BBNPP 10 Mile (16 km) 2050 Population Distribution}



Population Totals		
Radius (Miles)	Ring Population	Cumulative Population
0 to 1	373	373
1 to 2	1,405	1,778
2 to 3	1,866	3,644
3 to 4	9,602	13,246
4 to 5	11,670	24,916
5 to 10	41,208	66,124

BELL BEND NPP
10 MILE (16 km) 2050
POPULATION DISTRIBUTION

Figure 2.1-13 {BBNPP 10 Mile (16 km) 2060 Population Distribution}

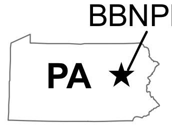


Legend

- ☆ BBNPP
- Berks County Boundary
- 45 Sector Population
- 2709 Sum by Direction
- BERWICK Urban Area
- Major Highway
- Secondary Roads
- Susquehanna River

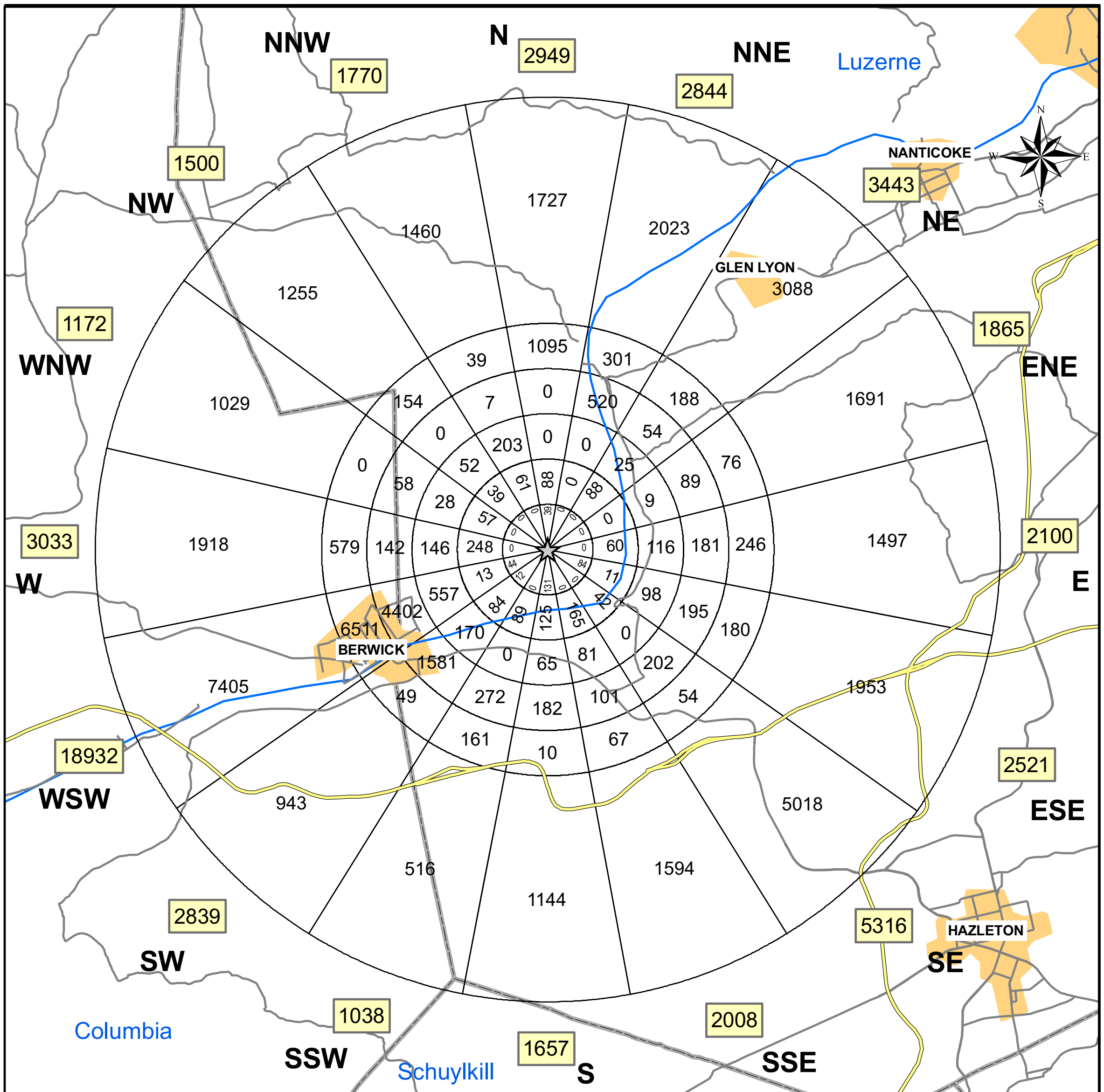
Population Totals

Radius (Miles)	Ring Population	Cumulative Population
0 to 1	393	393
1 to 2	1,480	1,873
2 to 3	1,967	3,840
3 to 4	10,121	13,961
4 to 5	12,300	26,261
5 to 10	43,426	69,687



BELL BEND NPP
10 MILE (16 km) 2060
POPULATION DISTRIBUTION

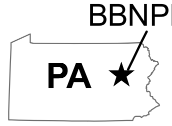
Figure 2.1-14 {BBNPP 10 Mile (16 km) 2018 Population Distribution}



Legend

- BBNPP
- Berks County Boundary
- 45 Sector Population
- 2709 Sum by Direction
- BERWICK Urban Area
- Major Highway
- Secondary Roads
- Susquehanna River

Population Totals		
Radius (Miles)	Ring Population	Cumulative Population
0 to 1	310	310
1 to 2	1,170	1,480
2 to 3	1,550	3,030
3 to 4	7,986	11,016
4 to 5	9,710	20,726
5 to 10	34,261	54,987

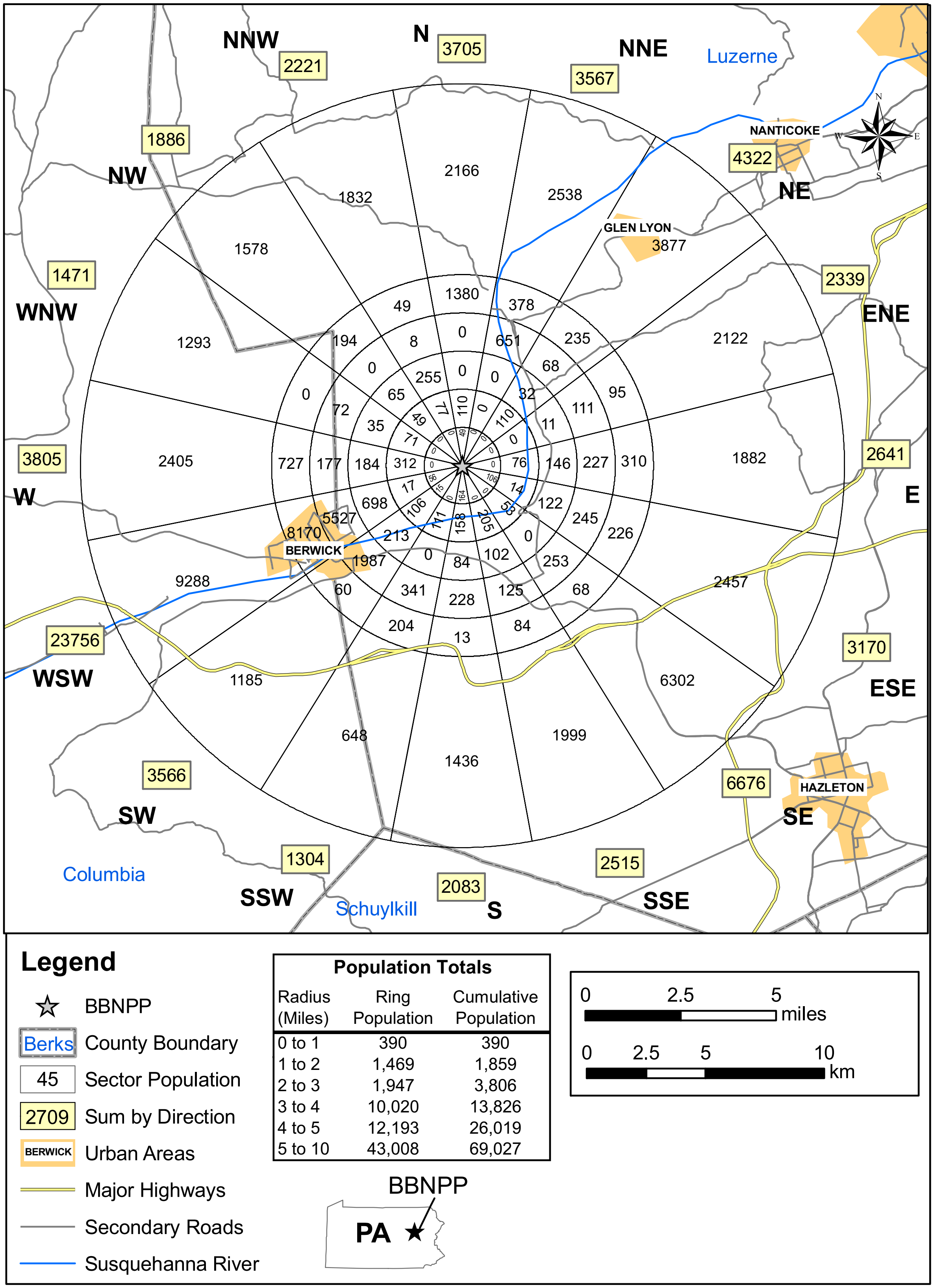


0 2.5 5 miles

0 2.5 5 10 km

BELL BEND NPP
10 MILE (16 km) 2018
POPULATION DISTRIBUTION

Figure 2.1-15 {BBNPP 10 Mile (16 km) 2058 Population Distribution}



Population Totals

Radius (Miles)	Ring Population	Cumulative Population
0 to 1	390	390
1 to 2	1,469	1,859
2 to 3	1,947	3,806
3 to 4	10,020	13,826
4 to 5	12,193	26,019
5 to 10	43,008	69,027

Figure 2.1-16 {BBNPP 50 Mile (80 km) Radius Map}

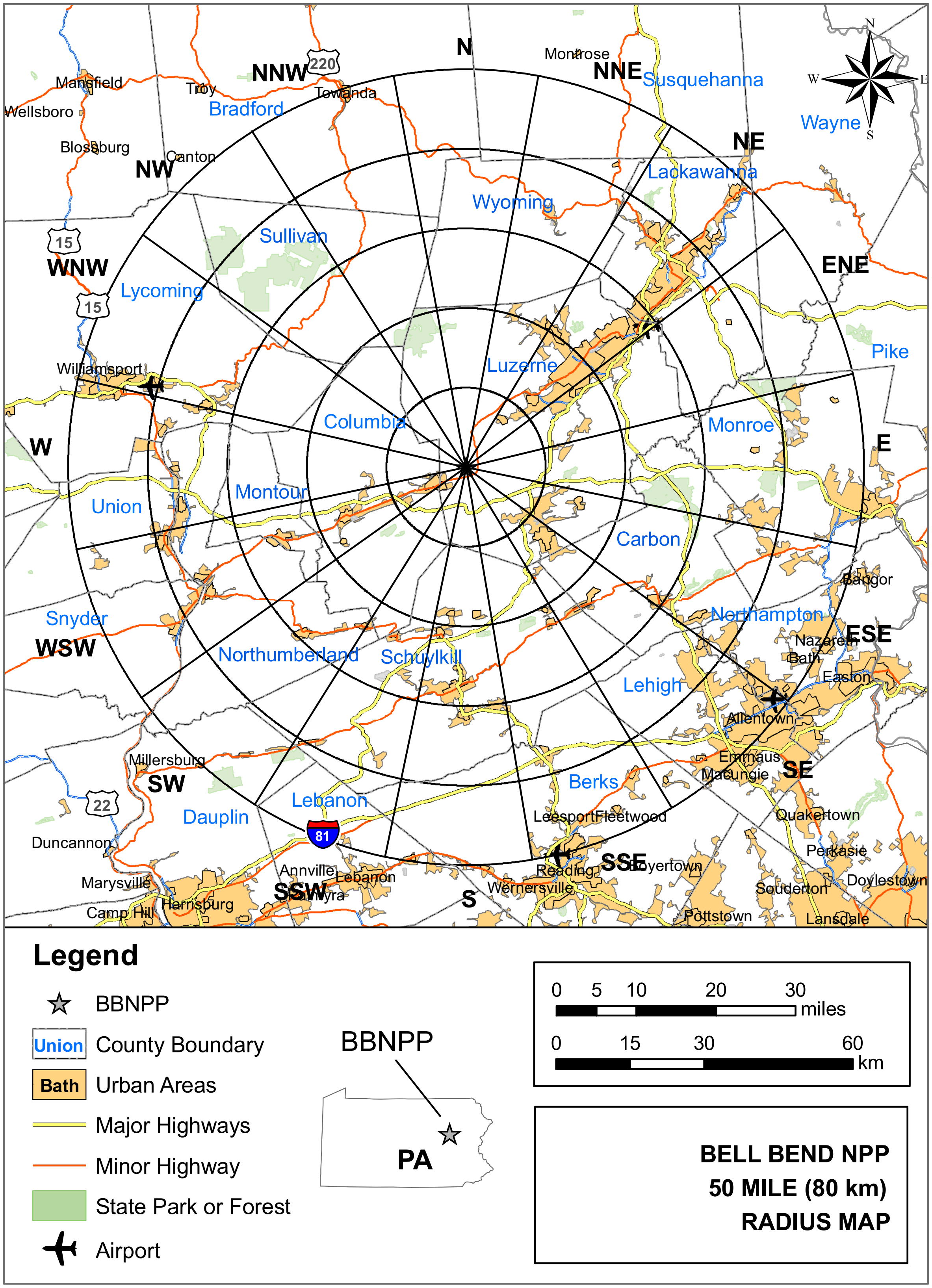
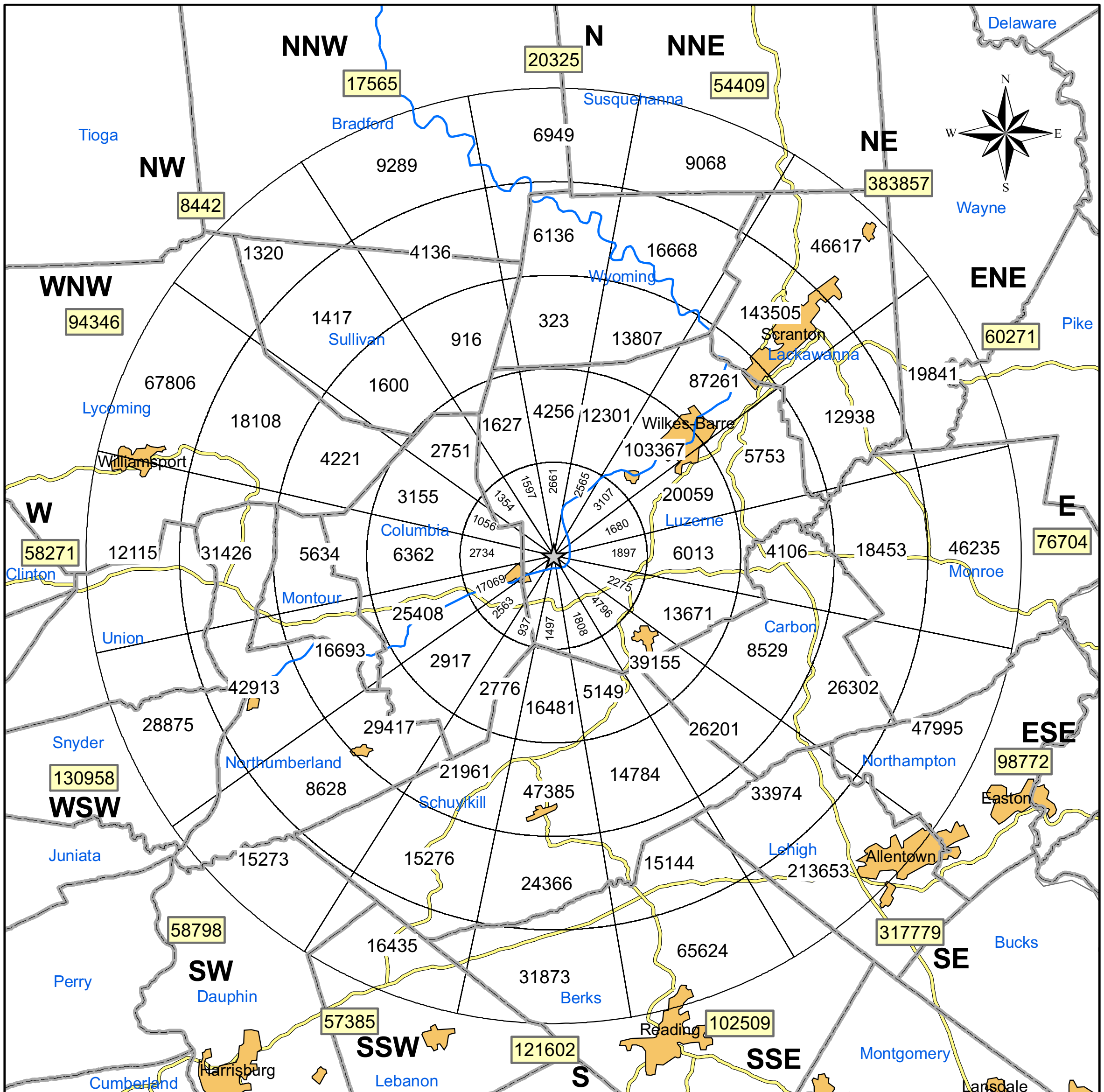


Figure 2.1-17 {BBNPP 50 Mile (80 km) 2000 Population Distribution}



Legend

- ☆ BBNPP
- Berks — County Boundary
- 103 — Sector Population
- 2709 — Sum by Direction
- Susquehanna River
- Major Highway
- Urban Area

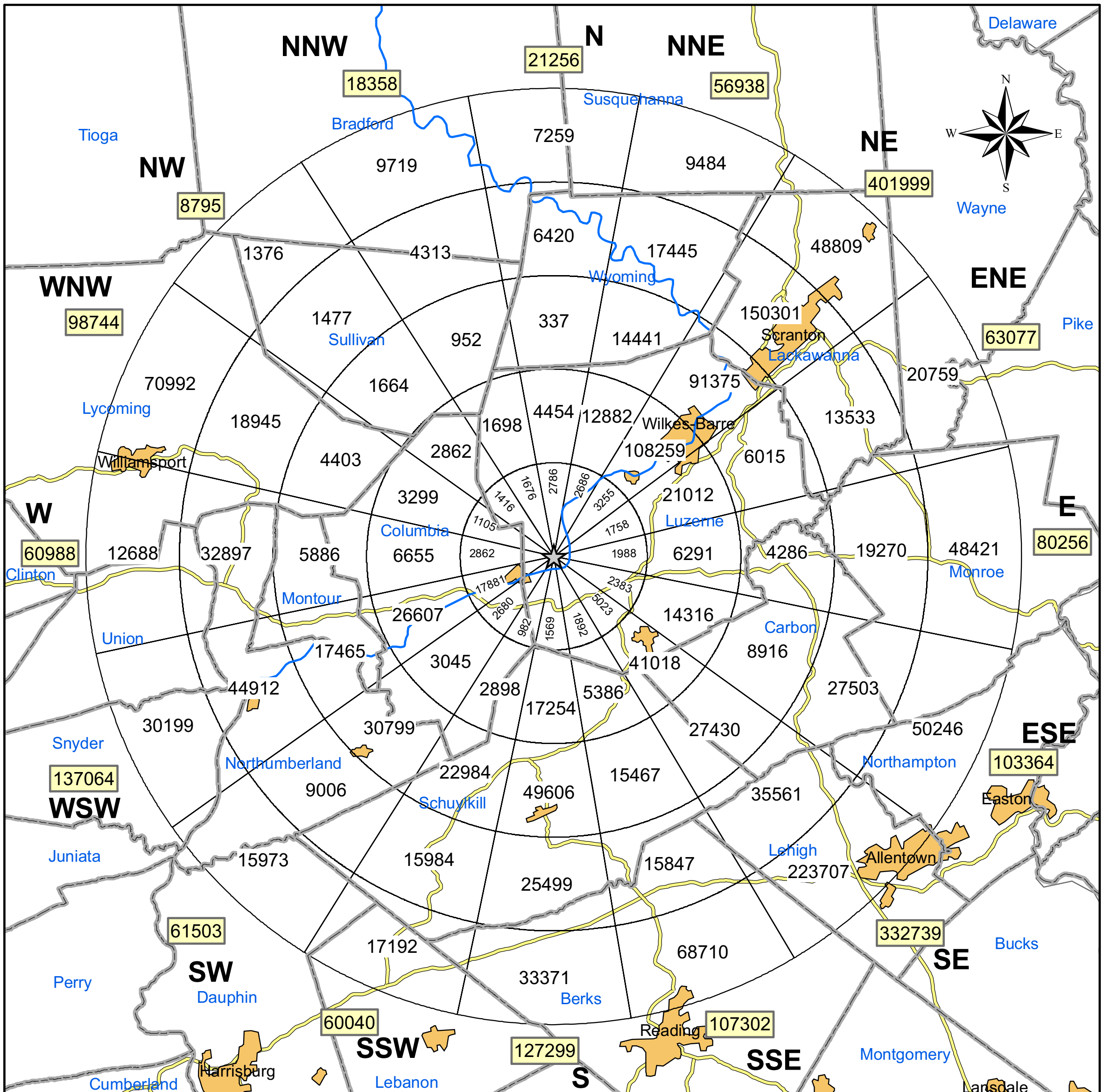
Population Totals

Radius (Miles)	Ring Population	Cumulative Population
0 to 10	49,596	49,596
10 to 20	265,448	315,044
20 to 30	288,591	603,635
30 to 40	419,390	1,023,025
40 to 50	638,968	1,661,993

0 5 10 20 30 miles
0 12.5 25 50 km

BBNPP
PA

Figure 2.1-18 {BBNPP 50 Mile (80 km) 2010 Population Distribution}



Legend

☆ BBNPP

Berks County Boundary

103 Sector Population

2709 Sum by Direction

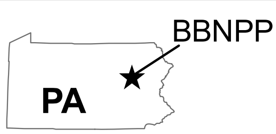
Susquehanna River

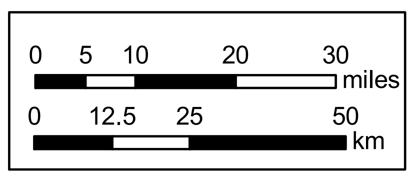
Major Highway

Urban Area

Population Totals

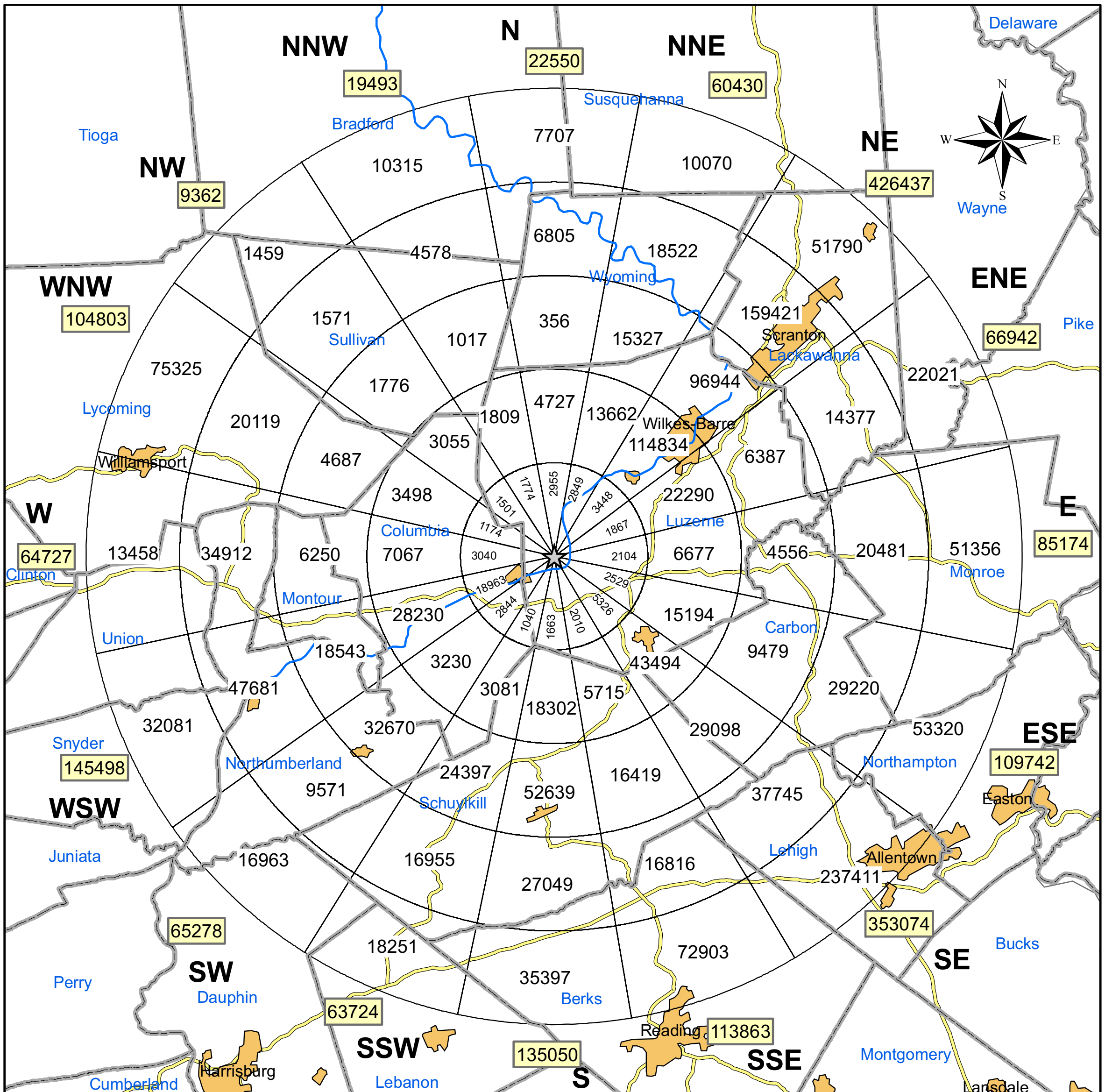
Radius (Miles)	Ring Population	Cumulative Population
0 to 10	51,942	51,942
10 to 20	277,936	329,878
20 to 30	302,026	631,904
30 to 40	438,913	1,070,817
40 to 50	668,905	1,739,722





BELL BEND NPP
50 MILE (80 km) 2010
POPULATION DISTRIBUTION

Figure 2.1-19 {BBNPP 50 Mile (80 km) 2020 Population Distribution}



Legend

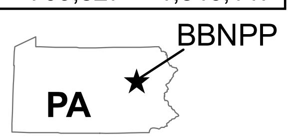
- ☆ BBNPP
- Berks — County Boundary
- 103 — Sector Population
- 2709 — Sum by Direction
- Susquehanna River
- Major Highway
- Urban Area

Population Totals

Radius (Miles)	Ring Population	Cumulative Population
0 to 10	55,087	55,087
10 to 20	294,865	349,952
20 to 30	320,545	670,497
30 to 40	465,823	1,136,320
40 to 50	709,827	1,846,147

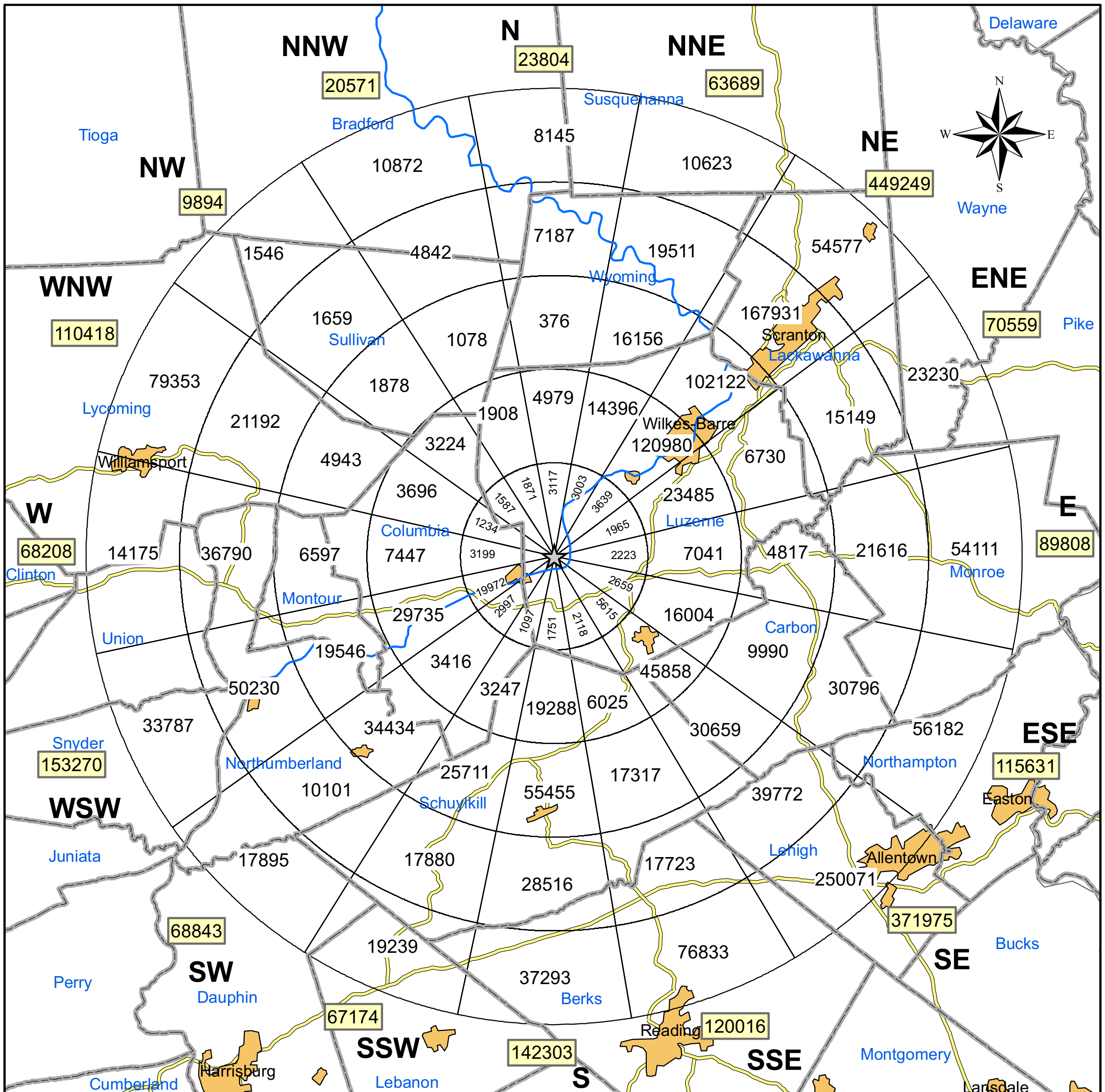
0 5 10 20 30 miles

0 12.5 25 50 km



BELL BEND NPP
50 MILE (80 km) 2020
POPULATION DISTRIBUTION

Figure 2.1-20 {BBNPP 50 Mile (80 km) 2030 Population Distribution}



Legend

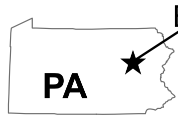
- ☆ BBNPP
- Berks — County Boundary
- 103 — Sector Population
- 2709 — Sum by Direction
- Susquehanna River
- Major Highway
- Urban Area

Population Totals

Radius (Miles)	Ring Population	Cumulative Population
0 to 10	58,047	58,047
10 to 20	310,729	368,776
20 to 30	337,809	706,585
30 to 40	490,895	1,197,480
40 to 50	747,932	1,945,412

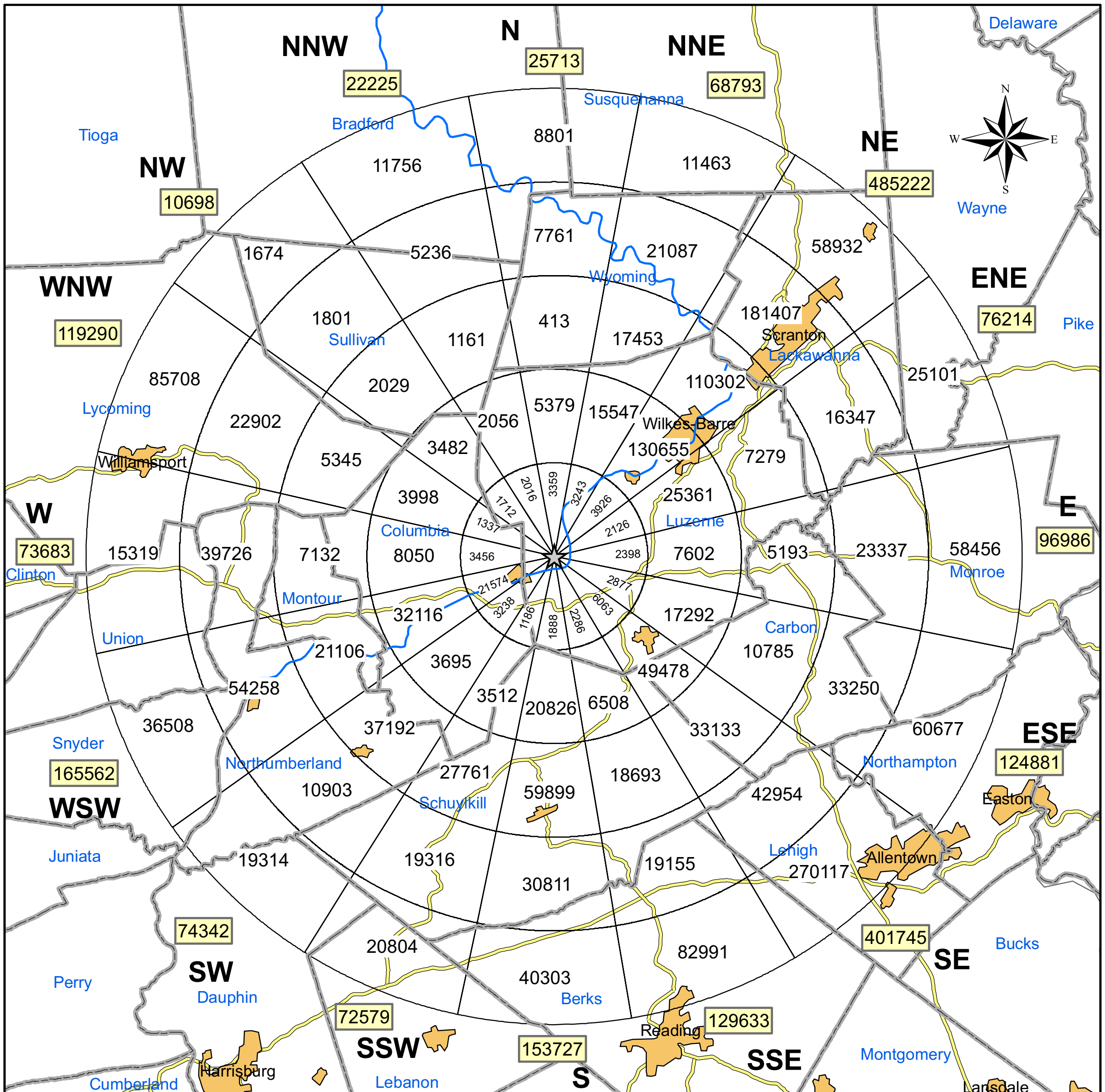
0 5 10 20 30 miles

0 12.5 25 50 km



BELL BEND NPP
50 MILE (80 km) 2030
POPULATION DISTRIBUTION

Figure 2.1-21 {BBNPP 50 Mile (80 km) 2040 Population Distribution}

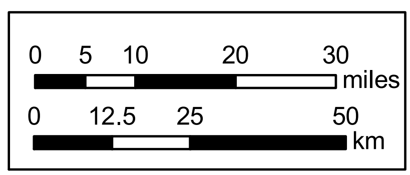


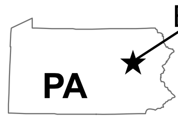
Legend

- ☆ BBNPP
- Berks — County Boundary
- 103 — Sector Population
- 2709 — Sum by Direction
- Susquehanna River
- Major Highway
- Urban Area

Population Totals

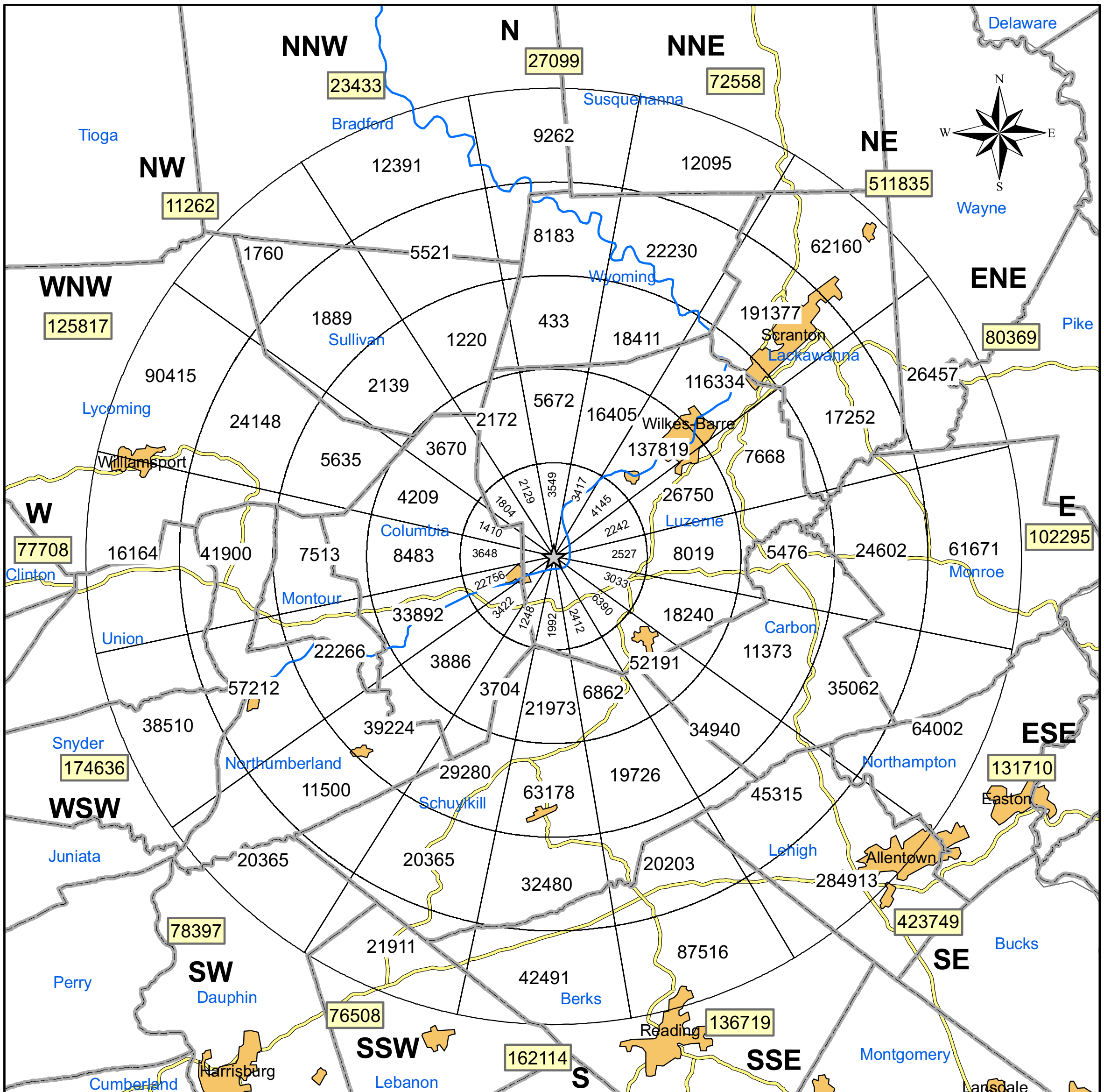
Radius (Miles)	Ring Population	Cumulative Population
0 to 10	62,685	62,685
10 to 20	335,557	398,242
20 to 30	364,876	763,118
30 to 40	530,251	1,293,369
40 to 50	807,924	2,101,293





BELL BEND NPP
50 MILE (80 km) 2040
POPULATION DISTRIBUTION

Figure 2.1-22 {BBNPP 50 Mile (80 km) 2050 Population Distribution}



Legend

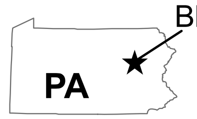
- ☆ BBNPP
- Berks — County Boundary
- 103 — Sector Population
- 2709 — Sum by Direction
- Susquehanna River
- Major Highway
- Urban Area

Population Totals

Radius (Miles)	Ring Population	Cumulative Population
0 to 10	66,124	66,124
10 to 20	353,947	420,071
20 to 30	384,816	804,887
30 to 40	559,239	1,364,126
40 to 50	852,083	2,216,209

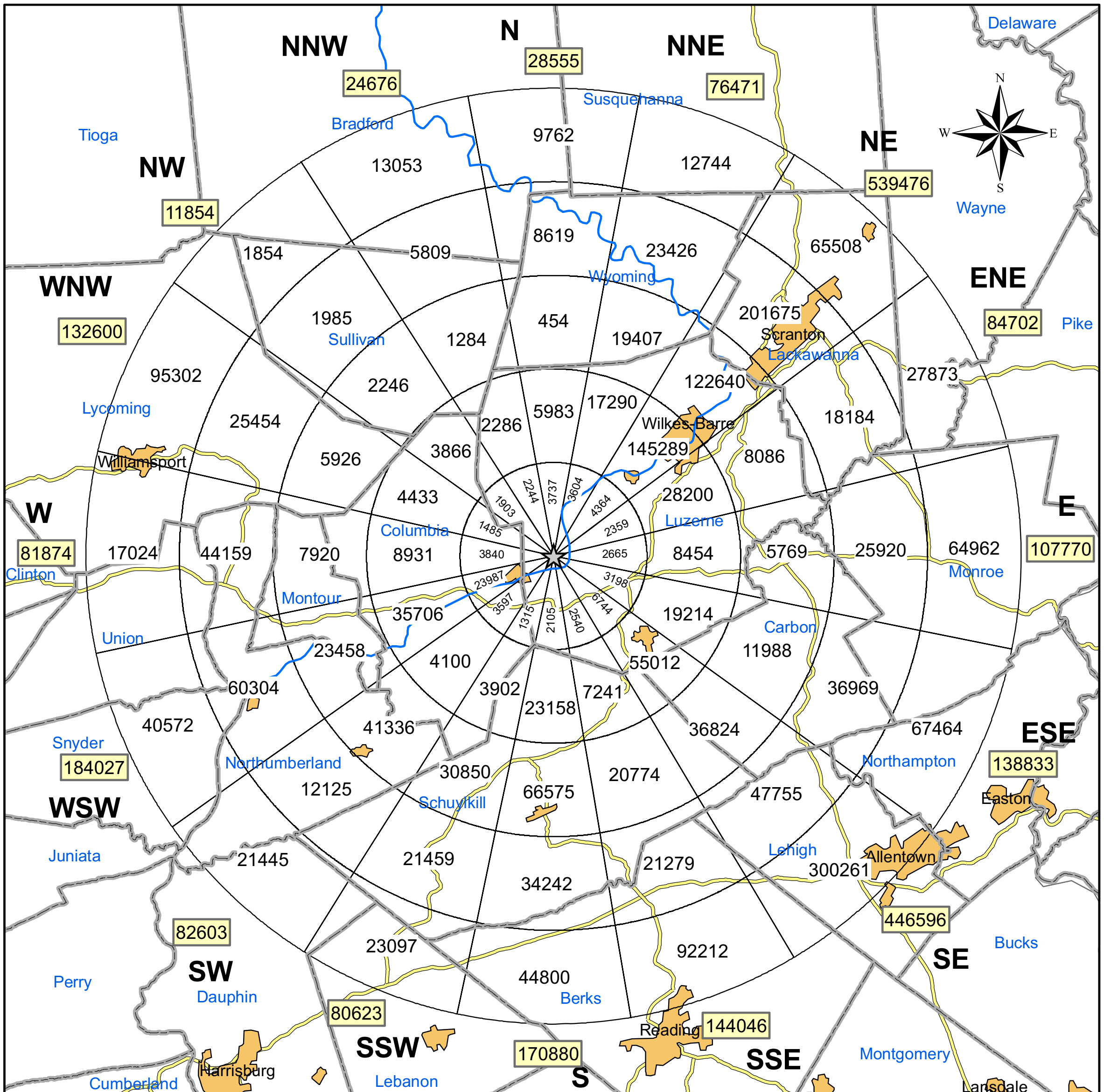
0 5 10 20 30 miles

0 12.5 25 50 km



BELL BEND NPP
50 MILE (80 km) 2050
POPULATION DISTRIBUTION

Figure 2.1-23 {BBNPP 50 Mile (80 km) 2060 Population Distribution}



Legend

- ☆ BBNPP
- Berks — County Boundary
- 103 — Sector Population
- 2709 — Sum by Direction
- Susquehanna River
- Major Highway
- Urban Area

Population Totals

Radius (Miles)	Ring Population	Cumulative Population
0 to 10	69,687	69,687
10 to 20	373,065	442,752
20 to 30	405,537	848,289
30 to 40	589,364	1,437,653
40 to 50	897,933	2,335,586

0 5 10 20 30 miles
0 12.5 25 50 km

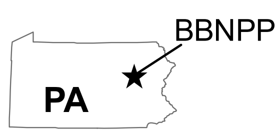


Figure 2.1-24 {BBNPP Low Population Zone}

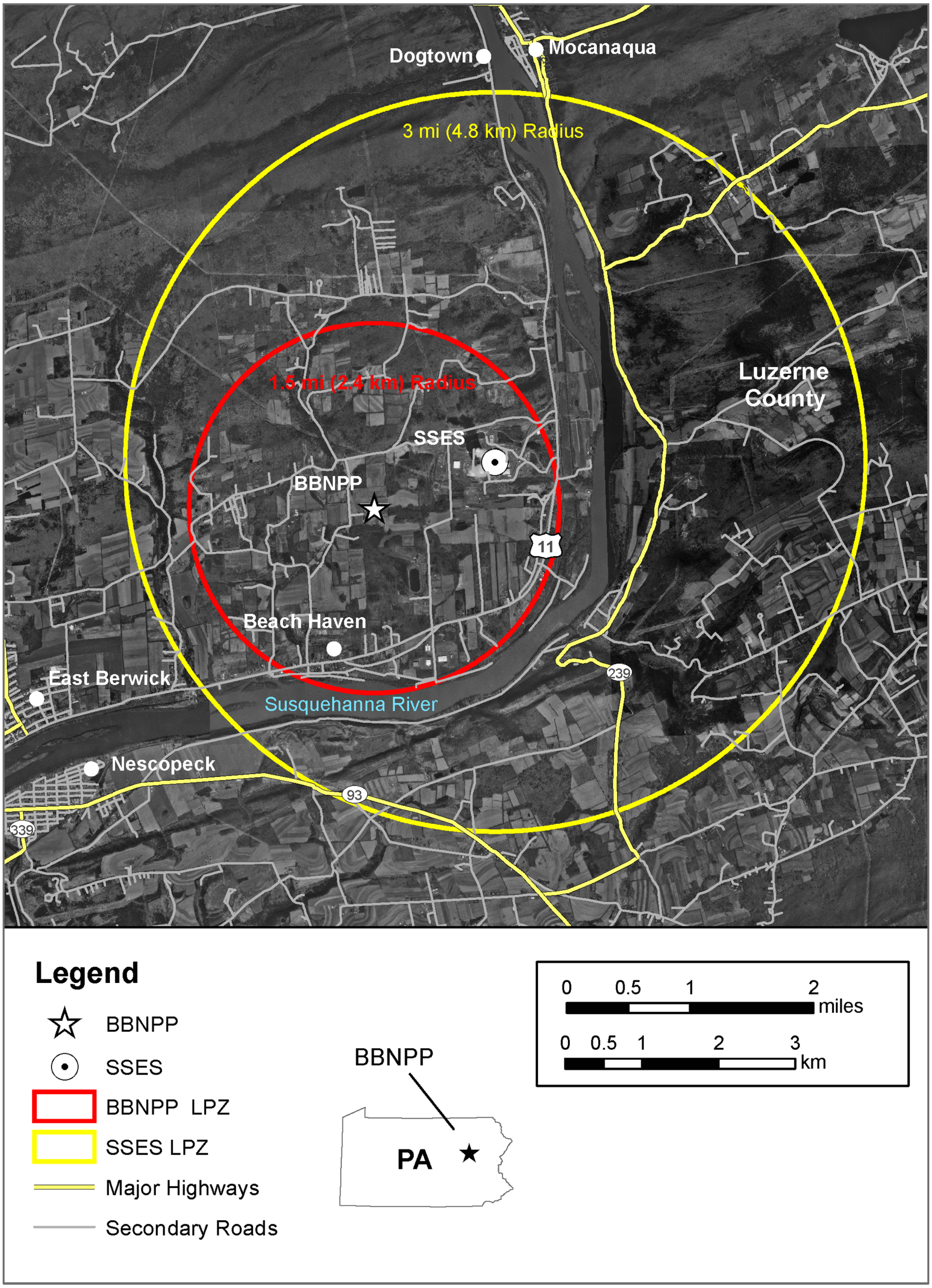
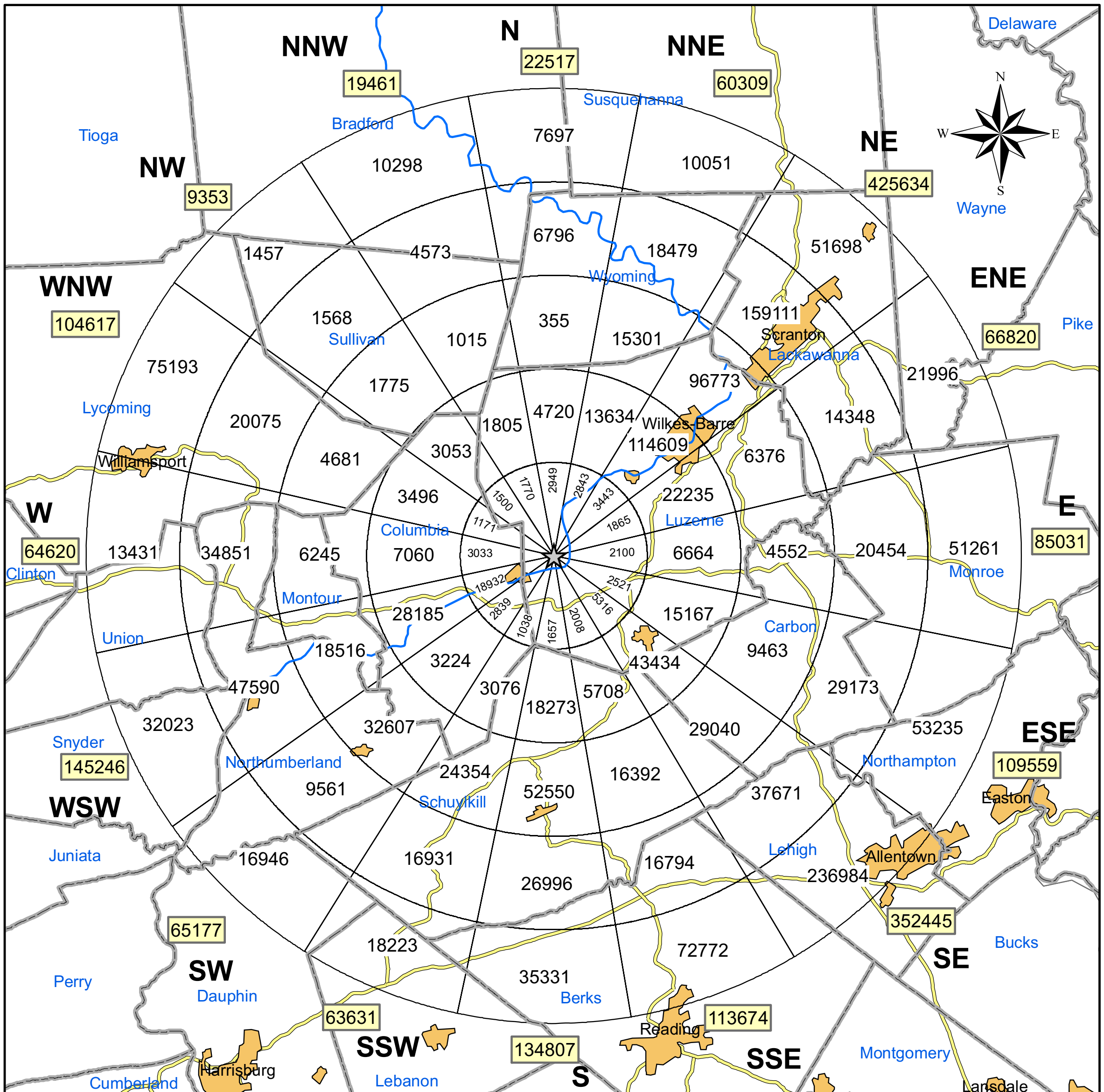


Figure 2.1-25 {BBNPP 50 Mile (80 km) 2018 Population Distribution}



Legend

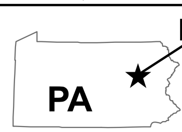
- ☆ BBNPP
- Berks — County Boundary
- 103 — Sector Population
- 2709 — Sum by Direction
- Susquehanna River
- Major Highway
- Urban Area

Population Totals

Radius (Miles)	Ring Population	Cumulative Population
0 to 10	54,987	54,987
10 to 20	294,343	349,330
20 to 30	319,995	669,325
30 to 40	464,971	1,134,296
40 to 50	708,605	1,842,901

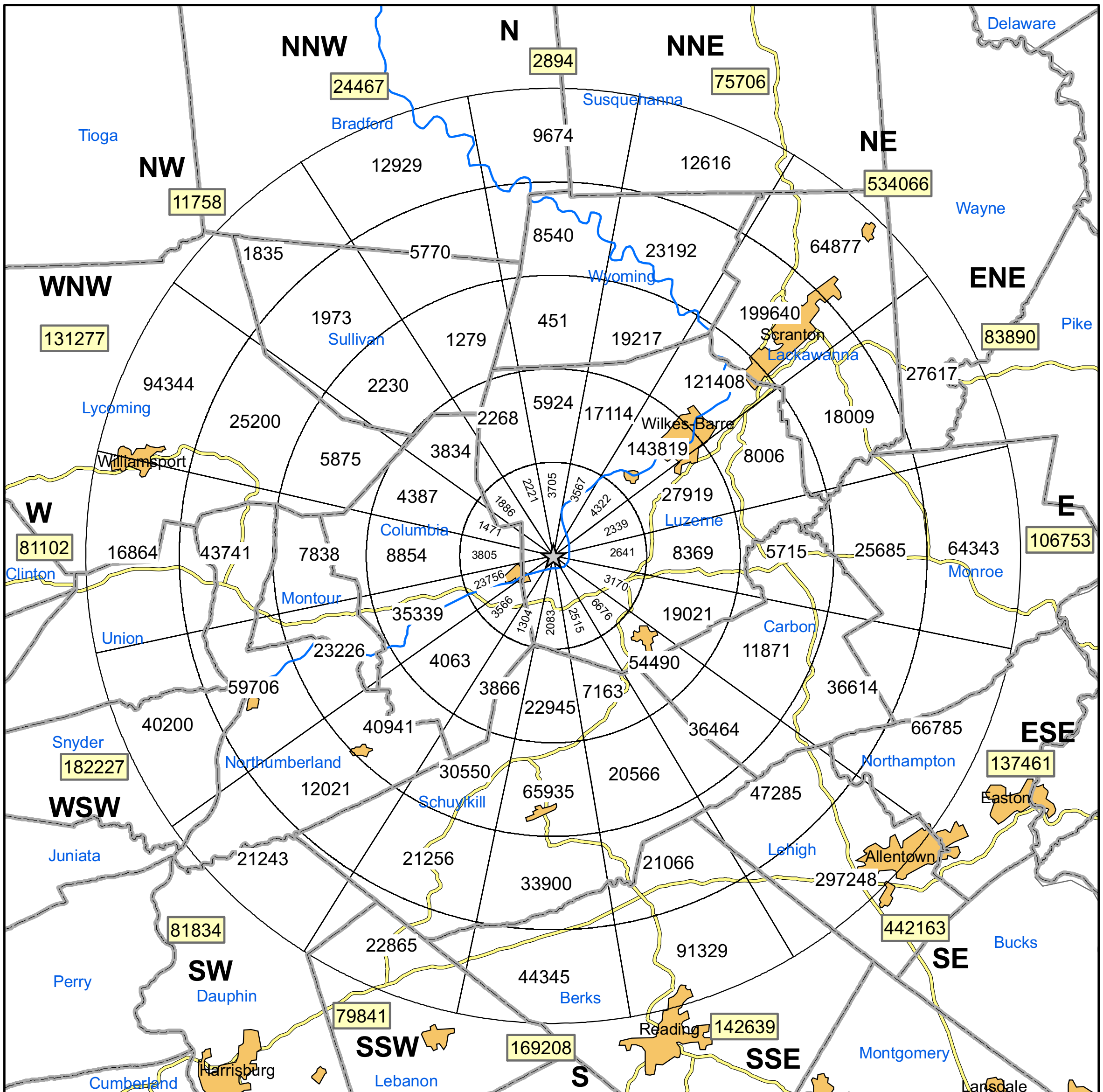
0 5 10 20 30 miles

0 12.5 25 50 km



BELL BEND NPP
50 MILE (80 km) 2018
POPULATION DISTRIBUTION

Figure 2.1-26 {BBNPP 50 Mile (80 km) 2058 Population Distribution}



Legend

☆ BBNPP

Berks — County Boundary

103 — Sector Population

2709 — Sum by Direction

Susquehanna River

Major Highway

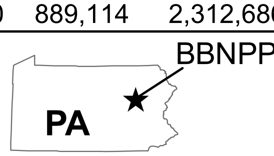
Urban Area

Population Totals

Radius (Miles)	Ring Population	Cumulative Population
0 to 10	69,027	69,027
10 to 20	369,375	438,402
20 to 30	401,572	839,974
30 to 40	583,598	1,423,572
40 to 50	889,114	2,312,686

0 5 10 20 30 miles

0 12.5 25 50 km



BELL BEND NPP
50 MILE (80 km) 2058
POPULATION DISTRIBUTION

2.2 NEARBY INDUSTRIAL, TRANSPORTATION AND MILITARY FACILITIES

This section of the U.S. EPR FSAR is incorporated by reference with the following supplements.

The U.S EPR FSAR includes the following COL Item in Section 2.2:

> A COL applicant that references the U.S. EPR design certification will provide site-specific information related to the identification of potential hazards stemming from nearby industrial, transportation, and military facilities within the site vicinity, including an evaluation of potential accidents (such as explosions, toxic chemicals, and fires).

This COL Item is addressed as follows:

This section also establishes whether the effects of potential accidents in the vicinity of the {BBNPP} site from present and projected industrial, transportation, and military installations and operations should be used as design basis events for plant design parameters related to the selected accidents.

Significant facilities and activities within 5 mi (8 km) and major airports within 10 mi (16 km) of the {BBNPP} site were identified. These facilities and activities, and significant facilities at greater distances, were evaluated in accordance with Regulatory Guide 1.206 (NRC, 2007b), Regulatory Guide 1.91 (NRC, 1978a), Regulatory Guide 4.7 (NRC, 1998), and relevant sections of both 10 CFR Part 100 (CFR, 2007d) and 10 CFR Part 50 (CFR, 2007b).

2.2.1 LOCATION AND ROUTES

The U.S. EPR FSAR includes the following COL Item in Section 2.2.1:

> The location and routes for nearby industrial, transportation, and military facilities is site-specific and will be addressed by the COL applicant.

The COL Item is addressed as follows:

{An investigation of industrial, transportation, and military facilities within 5 mi (8 km) of the BBNPP site identified the following significant industrial and transportation facilities for further evaluation:

- Industrial Facilities
    - Deluxe Building Systems"Heller's Gas and Custom Made Fireplaces
    - Heller’s Gas and Custom Made Fireplaces
    - Western International Distribution Center
    - Susquehanna Steam Electric Station (SSES) Units 1 and 2
- Pipelines
    - WIliams Gas Pipeline - Transco Natural Gas Pipelines (3 pipelines)

- UGI Penna Natural Gas Pipelines (2 pipelines)
- Sunoco Gasoline, Diesel Fuel, and Heating Oil Pipeline (1 pipeline)

- Waterways
    - Susquehanna River
- Highways
    - Interstate 80
    - Interstate 81
    - U.S. Route 11
    - Pennsylvania State Route 93
    - Pennsylvania State Route 239
- Railroads
    - Canadian Pacific Railway
    - North Shore Railroad
- Airports
    - SSES Helipad
    - Berwick Hospital Heliport
- Airways
    - Federal Airway V499
    - Federal Airway V106

An investigation of additional industrial, military, and transportation facilities within 5 to 10 mi (8 to 16 km) of the BBNPP site identified the following transportation facilities for further evaluation:

- Airports
    - Sutliff Private Airport
    - Double D Skyranch Airport
    - Barratta Heliport
- Airways
    - Federal Airway V164

- Federal Airway V232

Figure 2.2-1 is a site vicinity map that shows the location of identified industrial and transportation facilities, with the exception of airways, within 5 mi (8 km) of the BBNPP site. Figure 2.2-2 illustrates the airports and airway routes within 10 mi (16 km) of the BBNPP site.

An investigation of additional facilities, routes, or activities located at a distance greater than 10 mi (16 km) from the BBNPP site identified the following airways that may represent hazards of sufficient significance to be included for further evaluation:

- Airways
  - Federal Airway V188/226
  - Military Training Route VR707.}

2.2.2 DESCRIPTIONS

The U.S. EPR FSAR includes the following COL Item in Section 2.2.2:

> Nearby industrial, transportation, and military facilities are site-specific information and will be addressed by the COL applicant. This information will describe the primary function of each facility and the nature of the hazard it presents.

The COL item is addressed as follows:

Descriptions of the industrial, transportation, and military facilities located in the vicinity of the {BBNPP} site are provided in this section. The facilities described include those facilities identified in Section 2.2.1 that could represent potential hazards for the {BBNPP} site.

{Section 2.2.2.1 through Section 2.2.2.8 are added as a supplement to the U.S. EPR FSAR.

2.2.2.1 Description of Facilities

{In accordance with 10 CFR 50.34 (CFR, 2007c) and Regulatory Guide 1.206 (NRC, 2007b), four facilities were identified for review: SSES Units 1 and 2, Deluxe Building Systems, Heller's Gas and Custom Made Fireplaces, and Western International Distribution Center. Nearby sand and gravel facilities were not evaluated due to the low hazard posed by these facilities, which do not store or use explosives.

Table 2.2-1 provides a concise description of these facilities, including the primary functions and major products, as well as the number of persons employed. A more detailed description is provided in Section 2.2.2.2.1 through Section 2.2.2.2.5}

2.2.2.2 Description of Products and Materials

{A more detailed description of each of these facilities, including a description of the products and materials regularly manufactured, stored, used, or transported is provided in the subsequent sections. The chemicals identified for possible analysis and their locations associated with SSES Units 1 and 2 are presented in Table 2.2-2. The analysis of hazards associated with the chemicals for the four identified facilities is addressed in Section 2.2.3, and the disposition of hazards associated with these chemicals is summarized in Table 2.2-5 and Table 2.2-6.}

2.2.2.2.1 {SSES Units 1 and 2

The southwest corner of the existing SSES reactor building is located approximately 1,655 feet (504 m) north and 4,732 feet (1,442 m) east of the BBNPP reactor building. SSES Unit 1 and Unit 2 are both boiling water reactors (BWRs) licensed by the NRC. SSES Unit 1 has a generating capacity of 1,225 MWe, and has been in commercial operation since 1983. SSES Unit 2 has a generating capacity of 1,180 MWe, and SSES Unit 2 has been in commercial operation since 1985. (NRC, 2008a) (NRC, 2008b).}

2.2.2.2.2 {Deluxe Building Systems

The Deluxe Building Systems facility is located approximately 4.6 mi (7.4 km) southwest of the BBNPP site. The activities at this site include manufacturing prefabricated buildings, including single and multi-family homes, apartment buildings, hotels, and other buildings (Deluxe, 2008).}

2.2.2.2.3 {Heller's Gas and Custom Made Fireplaces

The Heller's Gas and Custom Made Fireplaces facility is located approximately 1.9 mi (3.1 km) southeast of the BBNPP site. The activities at this site include selling propane to residential, commercial, and industrial customers (Heller's Gas, 2008).}

2.2.2.2.4 {Western International Distribution Center

The Western International Distribution Center facility is located approximately 1.3 mi (2.1 km) south-southeast of the BBNPP site. This facility, which is slated to open during the summer of 2008, will be a distribution center for acetylene. This facility does not have access to any railroads, with incoming and outgoing shipments delivered by truck only.}

2.2.2.2.5 {Mining Activities

There are no mining activities above or undergroundwithin 5 mi (8 km) of the BBNPP site except for nearby sand and gravel facilities that were not evaluated due to the low hazard posed by these facilities.}

2.2.2.3 Pipelines

{Five natural gas distribution pipelines and one oil pipeline are located within 5 mi (8 km) of the BBNPP site as depicted in Section Figure 2.2-1. More detailed information about these six pipelines, including size, age, operating pressure, depth of burial, and isolation valve type and location descriptions, is included in Table 2.2-11.

Williams Gas Pipeline - Transco operates a pipeline corridor approximately 1.9 mi (3.1km) north of the BBNPP at the nearest approach. The three Williams Gas Pipelines - Transco pipelines in the corridor carry natural gas and are not expected to carry a different product in the future.

UGI Penna Natural Gas operates a pipeline corridor (formerly owned by PG Energy) approximately 0.4 mi (0.6km) north of the BBNPP at the nearest approach. The two UGI pipelines in the corridor carry natural gas and are not expected to carry a different product in the future.

Sunoco operates an oil pipeline approximately 2.0 mi (3.2 km) northeast of the BBNPP at the nearest approach. Sunoco also owns another oil pipeline (formerly owned by Arco and Atlantic), but the pipeline is not actively operated and is expected to remain inactive. The active Sunoco pipeline carries gasoline, diesel fuel, and heating oil and is not expected to carry a different product in the future.}

2.2.2.4 Description of Waterways

{The Susquehanna River is located approximately 1.4 mi (2.3 km) south of the BBNPP at the nearest approach. The river bends from a north to south to an east to west flow as it approaches the area around the BBNPP site; therefore, the river is close to the south and east sides of the BBNPP site. However, in the vicinity of the BBNPP site, the water level of the river is too low to allow for navigation of any watercraft other than recreational watercraft.}

2.2.2.5 Highways

{U.S. Route 11, a north-south highway runs east and then south of the BBNPP site. Its closest approach is approximately 1.1 mi (1.8 km) south of the site. U.S. Route 11 is the main road through the town of Berwick. Access to the site from U.S. Route 11 is via North Market Street, Confers Lane, and Beach Grove Road. Table 2.2-12 provides a concise desription of U.S. Route 11 and the following highways, including the closest approach and access points to the site.

Other major site highways within 5 mi (8 km) of the site are Pennsylvania State Route (SR) 93 and SR 239. The closest approach of SR 93 is approximately 2.3 mi (3.7 km) to the southwest. The closest approach of SR 239 is approximately 2.0 mi (3.2 km) to the southeast. The BBNPP site cannot be accessed via either SR 93 or SR 239, but both routes connect to U.S. Route 11.

Two interstate highways (I-80 and I-81) are located within 10 mi (16 km) of the BBNPP site. The closest approach of I-80 to the site is approximately 4.7 mi (7.6 km) to the south. However, most of I-80 is located more than 5 mi (8 km) south of the site. I-80 bends to the north at a point directly south of the site, but quickly bends south again. Therefore, only a small portion of I-80 is within 5 mi (8 km) of the site. The closest approach of I-81 is approximately 8.4 mi (13.5 km) to the southeast. (ESRI, 2008)

Information is not available about the materials transported on the roads in the vicinity of BBNPP; therefore, Superfund Amendments and Reauthorization Act (SARA) Title III, Tier II reports for facilities within 5 mi (8 km) of BBNPP and the results of a survey were reviewed to determine chemicals that may be transported in the vicinity of BBNPP. However, when considering the locations of the facilities that may receive shipments of hazardous materials and the locations of the major roads (namely, I-80, I-81, U.S. Route 11, SR 93 and SR 239), it seems likely that normal delivery routes would exist along U.S. Route 11 for locations in the immediate area near BBNPP or in Shickshinny. Delivery routes along the other major roads appear to deliver shipments to facilities away from BBNPP.}

2.2.2.6 Railroads

{There are two railroad lines located within 5 mi (8 km) of the site. According to Columbia County, both railroads transport hazardous and non-hazardous material, with the majority of shipments being timber products.

The North Shore (formerly Conrail) line, approximately 0.9 mi (1.4 km) east of the BBNPP site, is the nearest railroad line to the plant with a spur serving the SSES site. The only traffic on this line goes to the SSES site and would carry materials needed at SSES and at BBNPP by extending the spur to the site.. Trains on this line are very sporadic, with only a small number of trains each year. The railroad, north of the SSES site (Luzerne County, 2008), has been converted to a bike and walking trail, called the Susquehanna Warrior Trail.

The Canadian Pacific (formerly Delaware and Hudson Railway Company) line is located on the east bank of the Susquehanna River. Its closest approach to the site is approximately 1.5 mi (2.4 km) to the east. Trains run several times a day each day on this line. Table 2.2-7 details chemicals transported on the Canadian Pacific railroad in Columbia County; it can be assumed that these chemicals would also be transported along the railroad in Luzerne County as well.}

2.2.2.7 {Aircraft and Airway Hazards

Regulatory Guide 1.70 (NRC, 1978b), Regulatory Guide 1.206 (NRC, 2007b), and NUREG-0800 (NRC, 2007a) require that the risks due to aircraft hazards are sufficiently low. In accordance with Regulatory Guide 1.206 and Regulatory Guide 1.70, one heliport (Berwick Hospital Heliport), and one helipad (SSES Helipad) were identified within a 5 mi (8 km) radius of the BBNPP site. Additionally, Regulatory Guide 4.7 (NRC, 1998) requires that major airports within 10 mi (16 km) be identified. In the vicinity of the BBNPP site, there are an additional two airports and one heliport located within 5 to 10 mi (8 to16 km).

A more detailed description of each of these airports is presented in the subsequent sections, including distance and direction from the site, number and type of aircraft based at the airport, largest type of aircraft likely to land at the airport facility, runway orientation and length, runway composition, hours attended, and yearly operations where available. Information pertaining to airports located within 10 mi (16 km) of the site is presented in tabular form in Table 2.2-4 (AirNav, 2008) (FAA, 2007). Similar information regarding the closest major airports in the region is also presented in this table to ascertain whether these airports are or may be of significance in the future.}

2.2.2.7.1 Airports

2.2.2.7.1.1 {SSES Helipad

The SSES Helipad is owned by PPL and is located on the north side of the entrance road to SSES. This helipad is privately owned for private use located approximately 1.4 mi (2.3 km) west of the BBNPP site. The helipad is approximately 100 ft (31 m) long by 100 ft (31 m) wide and is asphalt. Flights are approximately once per year and are usually due to a medical emergency, contaminated worker training activity or drill, dignitary visits, or related to State Police activities. No aircraft are based at this helipad. The number of operations per year by aircraft type and flying patterns are not available. The helipad requires permission to land and use is considered sporadic; therefore, further evaluation is not warranted.}

2.2.2.7.1.2 {Berwick Hospital Heliport

Berwick Hospital Heliport is a privately owned heliport for medical use located approximately 3.4 mi (5.5 km) west of the BBNPP site. Helipad H1 is 200 ft (61 m) long by 200 ft (61 m) wide and is asphalt (AirNav, 2008). The number of aircraft based at the heliport, number of operations per year by aircraft type, flying patterns, and future plans are not available for this heliport.

Flights are determined by medical emergencies and, as such, further evaluation is not warranted.}

2.2.2.7.1.3 {Sutliff Private Airport

Sutliff Private Airport is a privately owned airport for private use located approximately 5.6 mi (9.0 km) northwest of the BBNPP site. Runway N/S is 1,200 ft (366 m) long by 100 ft (31 m) wide and is turf (AirNav, 2008). The number of aircraft based at the heliport, number of operations per year by aircraft type, flying patterns, and future plans are not available for this airport. This airport requires permission to land and use is considered sporadic; therefore, further evaluation is not warranted.}

2.2.2.7.1.4 {Double D Skyranch Airport

Double D Skyranch Airport is a privately owned airport for private use located approximately 5.7 mi (9.2 km) east-southeast of the BBNPP site. Runway 8/26 is 1,835 ft (559 m) long by 100 ft (31 m) wide and is turf. Runway 8/26 is marked by white tires that are 150 ft (46 m) apart. Five aircraft are based at this airport: one single engine airplane and four ultralights (AirNav, 2008). The number of operations per year by aircraft type, flying patterns, and future plans are not available for this airport. This airport requires permission to land and use is considered sporadic; therefore, further evaluation is not warranted.}

2.2.2.7.1.5 {Barratta Heliport

Barratta Heliport is a privately owned heliport for private use located approximately 6.4 mi (10.3 km) east-northeast of the BBNPP site. Helipad H1 is 400 ft (122 m) long by 300 ft (91 m) wide and is turf. One aircraft is based at the airport, which is a helicopter (AirNav, 2008). The number of operations per year by aircraft type, flying patterns, and future plans are not available for this airport. The heliport requires permission to land and use is considered sporadic; therefore, further evaluation is not warranted.}

2.2.2.7.2 {Aircraft and Airway Hazards

Regulatory Guide 1.70, Regulatory Guide 1.206, and NUREG-0800 indicate that the risks due to aircraft hazards should be sufficiently low. Further, aircraft accidents that could lead to radiological consequences in excess of the exposure guidelines of 10 CFR 50.34(a)(1) with a probability of occurrence greater than 1.0E-7 per year should be considered in the design of the plant.

NUREG-0800, Section 3.5.1.6 provides a three part acceptance criteria test for concluding the probability of aircraft accidents to be less than 1.0E-7 per year: (A) meeting (i) plant-to-airport distance and (ii) projected annual number of operations criteria; (B) meeting (i) plant is at least 5 mi (8 km) from military training routes and (ii) the number of associated annual operations is less than 1000; and (C) plant is at least 2.0 statute mi (3.2 km) beyond the nearest edge of a federal airway.

Based on the study of design features, such as hardened construction, shielding by other Category I buildings, and/or space separation to prevent losing needed function in one aircraft accident, that are incorporated into the design of most Category I Structures (documented in the various subsections of Section 3.8.1 of U.S. EPR FSAR), these Category I structures are not vulnerable to aircraft hazard:

- Reactor Containment Building,
- Fuel Handling Building,
- Safeguard Buildings, and
- Emergency Power Generation Buildings.

Therefore, the only Category I Structure requiring specific assessment for aircraft hazards is the ESWEMS Pumphouse.

The nearest public airport is the Hazelton Municipal Airport, which is located 11.3 mi (18.2 km) from the center of containment for BBNPP. At this distance, the threshold of number of annual operations from proximity criterion (A)(i) of the acceptance criteria section of Section 3.5.1.6 is 127,234 operations per year. As Table 2.2-4 shows, the projected number of annual operations at this airport through 2025 is 34,837 operations (FAA, 2007). The 2025 projected number of annual operations is less than the threshold number of 127,234 operations for this airport. For the other public airports in Table 2.2-4, the separation distance is greater than that for the Hazelton Municipal Airport. The threshold number of annual operations increases with the distance squared, and the data in the table shows that in terms of best available information (that is, either the 2025 projection of number of annual operations or the latest available number of operations), the separation criteria of Section 3.5.1.6 will be met by all listed public airports in Table 2.2-4.

Table 2.2-4 shows that there are several private airports, helipads, and heliports within the vicinity of the BBNPP site. The exact number of operations at the airports, helipad, or heliport is not available, but operations can be considered to be sporadic due to their private ownership. As stated earlier, these airports, heliports, and helipads do not require further hazard evaluations due to their private ownership and sporadic operations that are most likely below the proximity criteria.

The closest military training route is VR 707, located 18.9 mi (30.4 km) from the center of containment for BBNPP. This meets the distance screening criterion of 5 mi (8 km) in criterion B in the acceptance criteria section of NUREG-0800, Section 3.5.1.6. The FAA has been contacted to verify that the number of operations does not exceed 1,000 operations per year for this training route. This information will be updated once the FAA responds to our request for information.

There are 5 federal airways: V499, V106, V164, V232 and V188/226 near BBNPP. Two of these, V499 and V106, do not meet the screening criterion of 2.0 mi (3.2 km) in criterion C of the acceptance criteria section of NUREG-0800, Section 3.5.1.6. V164 and V232 meet this distance criterion closely; V188/226 meets the distance criterion comfortably. The probability approach described in Section III.2 of NUREG-0800, Section 3.5.1.6 was used with the information and methodology presented in Appendix B of DOE Standard 3014-96 (DOE, 1996) to calculate the probability of an aircraft crash into the ESWEMS Pumphouse. The DOE standard requires the annual number of operations for each airway and the breakdown of types of aircraft (i.e., general aviation, military aviation, and commercial aviation).

The number of annual operations for each airway from the SSES Units 1 and 2 FSAR was used due to the unavailability of more current information. The FAA has been contacted to verify that the number of operations for these 5 federal airways yields conservative results. This information will be updated once the FAA responds to our request for information.

The breakdown of the type of aircraft per airway was not available. Therefore, three cases were calculated: (1) all flights were for general aviation uses, (2) general aviation, military aviation and commercial aviation each account for one-third of all flights in the subject federal airways, and (3) no general aviation flights in the subject airways, and the military aviation and the commercial aviation account for the flights equally:

- Case 1: General aviation accounts for all flights in the subject airways. The calculated crash probability into the ESWEMS Pumphouse is 5.1E-7 per year.
- Case 2: General aviation, military aviation and commercial aviation each account for one-third of all flights in the subject federal airways. The calculated crash probability into the ESWEMS Pumphouse is 1.8E-7 per year.
- Case 3: There are no general aviation flights in the subject airways, and the military aviation and the commercial aviation account for the flights equally. The calculated crash probability into the ESWEMS Pumphouse is 2.1E-8 per year.

Applicable flight information to the airways and breakdown of that information into flight types determines design requirements. Aircraft crashes will be considered in the final design either by separation or hardening . The FAA has been contacted to verify the breakdown of the type and number of aircraft for these 5 federal airways. This information will be updated once the FAA responds to our request for information. Refer to Section 3.5.}

2.2.2.8 {Projections of Industrial Growth

Overall, a small percentage of Luzerne County is industrial, with the majority of industries in the larger cities of Wilkes-Barre, Pittson, and Hazelton. The major industry in Salem Township is SSES Units 1 and 2. Salem Township also includes part of Berwick, which includes several industrial areas (Lackawanna-Luzerne, 2007).

Luzerne County is in the process of developing a county comprehensive plan in a joint effort with nearby Lackawanna County. Therefore, no industrial growth projections are available for Luzerne County. However, the Luzerne County Office of Community Development released their "Action Plan" for 2007 to 2008 and Columbia County's comprehensive plan provides some insight into the industrial growth in that county.

The Luzerne County Office of Community Development's action plan identified several economic development needs in Salem Township, including acquiring and developing 120 ac of land for a business/industrial park and constructing another building in the Salem Industrial Estates industrial park (Luzerne County, 2007). Therefore, it can be inferred that the Office of Community Development expects to attract more industries to Salem Township, which is within the vicinity of the BBNPP site.

A review of nearby Columbia County's Comprehensive Plan shows that approximately 1,860 ac (753 ha) of the 83,134 zoned ac (33,643 ha) are zoned as industrial, while most of the land in the county is agricultural or open space. Within Berwick, which is in Columbia County, there are 2 industrial parks: the Berwick Industrial Park and the Briar Creek Industrial Park. The Berwick Industrial Park is located on the west side of Berwick, north of U.S Route 11, approximately

4.0 mi (6.4 km) southwest of the BBNPP site; the Briar Creek Industrial Park is located 6.0 mi (9.7 km) southwest of BBNPP. The plan states that through the year 2010, an additional 20 ac (8 ha) would be required for industries. However, a 1989 study showed that an additional 9.7 ac of land per year would be needed for industrial purposes. Therefore, approximately 136 ac (55 ha) may be required for industries through 2010.

Significant industrial facilities located within 5 mi (8 km) of the BBNPP site are shown on Figure 2.2-1, and a concise description of these facilities is provided in Table 2.2-1. A review of available Luzerne County planning documents does not indicate any future projections of major military or transportation (MPO, 2008) facilities located within the vicinity of the BBNPP site with the exceptions of the future industrial development in Salem Township and the construction of BBNPP site.}

2.2.3 EVALUATION OF POTENTIAL ACCIDENTS

The U.S EPR FSAR includes the following COL Item in Section 2.3:

A COL applicant that references the U.S. EPR design certification will provide information concerning site-specific evaluations to determine the consequences that potential accidents at nearby industrial, transportation, and military facilities could have on the site. The information provided by the COL applicant will include specific changes made to the U.S. EPR design to qualify the design of the site against potential external accidents with an unacceptable probability of severe consequences.

The COL Item is addressed as follows:

On the basis of the information provided in Section 2.2.1 and Section 2.2.2, the potential accidents to be considered as design-basis events and the potential effects of those accidents on the nuclear plant, in terms of design parameters (e.g., overpressure, missile energies) or physical phenomena (e.g., impact, flammable or toxic clouds) were identified in accordance with 10 CFR 20 (CFR, 2007a), 10 CFR 52.79(a)(1)(vi) (CFR, 2007g), 10 CFR 50.34 (CFR, 2007c), 10 CFR 100.20 (CFR, 2007e) 10 CFR 100.21 (CFR, 2007f), Regulatory Guide 1.70 (NRC, 1978b), Regulatory Guide 1.78 (NRC, 2001), Regulatory Guide 1.91 (NRC, 1978a), Regulatory Guide 1.206 (NRC, 2007b), and Regulatory Guide 4.7 (NRC, 1998). The events are discussed in the following sections.

Sections 2.2.3.1 and 2.2.3.2 are added as a supplement to the U.S. EPR FSAR.

2.2.3.1 Determination of Design-Basis Events

Design-basis events internal and external to the nuclear plant are defined as those accidents that have a probability of occurrence on the order of magnitude of 1.0E-7 per year, or greater, with the potential consequences serious enough to affect the safety of the plant to the extent that the guidelines in 10 CFR Part 100 (CFR, 2007d) could be exceeded. The following accident categories were considered in selecting design-basis events: explosions, flammable vapor clouds (delayed ignition), toxic chemicals, fires, collisions with intake structure, liquid spills, and radiological hazards. The postulated accidents that would result in a chemical release were analyzed at the following locations:

- {Nearby transportation routes such as U.S. Route 11, the Susquehanna River, the Canadian Pacific Railway, and nearby natural gas pipelines.

- Nearby chemical and fuel storage facilities (industry in the towns of Berwick, Nescopeck, and Shickshinny).
- Adjacent site chemical storage (SSES Units 1 and 2) and onsite chemical storage (BBNPP).}

2.2.3.1.1 Explosions

Accidents involving detonations of high explosives, munitions, chemicals, or liquid and gaseous fuels were considered for facilities and activities in the vicinity of the plant or onsite, where such materials are processed, stored, used, or transported in quantity. The effects of explosions are a concern in analyzing structural response to blast pressures. The effects of blast pressure from explosions from nearby railways, highways, navigable waterways, or facilities to critical plant structures were evaluated to determine if the explosion would have an adverse effect on plant operation or would prevent a safe shutdown.

The allowable and actual distances of hazardous chemicals transported or stored were determined in accordance with NRC Regulatory Guide 1.91, Revision 1, Evaluations of Explosions Postulated to Occur on Transportation Routes Near Nuclear Power Plants (NRC, 1978a). Regulatory Guide 1.91 cites 1 psi (6.9 kPa) as a conservative value of peak positive incident overpressure, below which no significant damage would be expected. Regulatory Guide 1.91 difines this safe distance by the relationship $R \geq kW1/3$ where R is the distance in feet from an exploding charge of W pounds of TNT; and the value k is a constant. {The TNT mass equivalent, W, was determined following guidance in Regulatory Guide 1.91, where W is taken as being 240% of the explosive mass of the chemical.}

Conservative assumptions were used to determine a safe distance, or minimum separation distance, required for an explosion to have less than 1 psi (6.9 kPa) peak incident pressure. In each of the explosion scenario analyses, an explosion yield factor of 100 percent was applied to account for an in-vessel confined explosion. The yield factor is an estimation of the the available combustion energy released during the explosion as well as a measure of the explosion confinement (NRC, 2004a). This is a conservative assumption because a 100 percent yield factor is not achievable (FMIC, 2005):

- For atmospheric liquids (i.e., gasoline, toluene, etc.) the storage vessel was assumed to contain the quantity of fuel vapors in air at the upper explosive limit. This is conservative because this scenario produces the maximum flammable mass given that it is the fuel vapor, not the liquid fuel that explodes (NRC, 2004a). These assumptions are consistent with those used in Chapter 15 of NUREG-1805 (NRC, 2004a).
- For compressed or liquified gases (i.e., propane, hydroge), it was conservatively assumed that the entire content of the storage vessel will be between the upper and lower explosive limits, given that the instantaneous depressurization of the vessel would result in vapor concentrations throughout the explosive range at varying pressures and temperatures that could not be assumed. Therefore, the entire content of the storage vessel was considered as the flammable mass.

{The adjacent site and onsite chemicals (Table 2.2-5), nearby facilities chemicals (Table 2.2-6), and hazardous materials potentially transported on U.S. Route 11 or on railroads (Table 2.2-3 and Table 2.2-7) were evaluated to ascertain which hazardous materials had the potential to explode, thereby requiring further analysis. The effects of selected explosion events are summarized in Table 2.2-8 and in the following sections relative to the release source.

Pipelines

There are two bounding natural gas pipelines and one gasoline pipeline in the vicinity of BBNPP: a Transco 42" natural gas pipeline that is 1.9 mi (3.1 km) from BBNPP, a UGI 12" natural gas pipeline that is 0.44 mi (0.71 km) from BBNPP, and a Sunoco 6.625" gasoline pipeline that is 2.0 mi (3.2 km) from BBNPP. An explosion at the break point of one of these pipelines would involve a much smaller amount of mass than a delayed ignition vapor cloud explosion. Therefore, an explosion at the break point is bounded by the delayed ignition vapor cloud explosion discussed in Section 2.2.3.1.2. It is concluded that damaging overpressures from an explosion from a rupture in the natural gas or gasoline pipelines would not adversely affect the operations of BBNPP.

Waterway Traffic

The Susquehanna River is the only waterway within 5 mi (8 km) of BBNPP. The Susquehanna River is too shallow for any boat aside from personal watercraft. No releases or explosions are analyzed for any boats or barges.

Highways

Table 2.2-3 and Table 2.2-7 details the hazardous materials potentially transported on U.S. Route 11. The materials that were identified for further analysis for explosive potential were gasoline, and acetylene. The maximum quantity of the identified chemicals assumed to be transported on the roadway was 80,000 lb (36,287 kg) (CFR, 1998).

An analysis of the identified chemicals was conducted using TNT equivalency methodologies, as described this section. The results indicate that the minimum separation distances (i.e., safe distances) are less than the shortest distance to a safety-related BBNPP structure from any point on U.S. Route 11. The closest safety-related BBNPP structure is located approximately 0.95 mi (1.53 km) from U.S. Route 11. The minimum separation distance for gasoline was calculated to be 0.72 mi (1.16 km); and for acetylene, 0.41 mi (0.66 km) (Table 2.2-8). Therefore, an explosion involving potentially transported hazardous materials on U.S. Route 11, would not adversely affect operation of BBNPP.

Adjacent Site and Onsite Chemicals

BBNPP is located in close proximity to the existing SSES Units 1 and 2, and their associated chemical storage locations. The hazardous materials stored at the SSES site that were identified for further analysis with regard to explosive potential are gasoline, hydrogen, and diesel.

The 61,642 lb (27,960 kg) of gasoline is in an underground storage tank. Therefore, it was assumed that the explosion would be bounded by an event involving an 80,000 lb (36,287 kg) gasoline delivery tanker, either in route, or during or following a filling operation.

A conservative analysis using TNT equivalency methods as described in Section 2.2.3.1 was used to determine safe distances for the storage of the identified hazardous materials.

The safe distance for the hydrogen is 0.34 mi (0.55 km); and for diesel is 0.42 mi (0.68 km). The hydrogen tank is roughly 0.69 mi (1.11 km), and the diesel storage tank is roughly 0.85 mi (1.37 km) from the nearest safety-related structure for BBNPP (Table 2.2-8).

The results using this methodology indicate that the minimum separation distances (i.e., safe distances) are less than the shortest distance from any safety-related BBNPP structure to the storage location of the identified chemicals. Therefore, an explosion of any of these chemicals would not adversely affect operation of BBNPP.

The hazardous materials stored onsite at BBNPP that were identified for further analysis with regard to explosive potential were ammonium hydroxide, diesel, dimethylamine, gasoline, hydrazine, hydrogen and argon-methane.

The safe distance for ammonium hydroxide (28% solution) is 273 ft (83 m); for the diesel is 1,626 ft (496 m); for the dimethylamine (2% solution) is 290 ft (88 m); for the gasoline is 412 ft (126 m); for the hydrazine (35% solution) is 805 ft (245 m); for the hydrogen tank (48.05 pounds) is 271 ft (83 m); for the argon-methane mixture is 164 ft (50 m); and for hydrogen cylinder (1.45 pounds) is 78 ft (24 m). These chemicals will always be further than these standoff distances from the nearest BBNPP safety related building. These results are summarized in Table 2.2-8.

One material at BBNPP was identified for further analysis with regard to an explosive overpressure relating to a boiling liquid expanding vapor cloud explosion (BLEVE). A rupture of a storage tank of liquid nitrogen would cause a large fraction of the mass of nitrogen to flash to vapor, sending an overpressure wave. The safe standoff distance for this BLEVE of the liquid nitrogen tank is 360 ft (110 m) (Table 2.2-8).

Procedures ensure 1) the minimum separation distances (i.e., storage location and volume) for chemicals listed in Table 2.2-5 are maintained, 2) new chemicals to be stored onsite that are not listed in Table 2.2-5 are evaluated to establish the applicable minimum separation distance, storage location, and volume limit for that chemical.

<u>Nearby Facilities</u>

There are two additional offsite facilities that store explosive chemicals that are identified for further analysis. The hazardous materials stored at nearby facilities that were identified for further analysis with regard to explosive potential are propane stored at Heller's Gas & Custom Made Fireplaces, and natural gas stored at Deluxe Building Systems.

A conservative analysis using TNT equivalency methods as described in Section 2.2.3.1 was used to determine safe distances for the storage of the identified hazardous materials.

The safe distance for the mass of propane is 1.07 mi (1.72 km); and for the mass of natural gas is 1.43 mi (2.30 km). Heller's Gas & Custom Made Fireplaces is roughly 1.68 mi (2.70 km), and Deluxe Building Systems is roughly 4.48 mi (7.21 km) from the nearest safety-related structure for BBNPP (Table 2.2-8).

The results using this methodology indicate that the minimum separation distances (i.e., safe distances) are less than the shortest distance from a safety-related BBNPP structures to the storage location of the identified chemicals. Therefore, an explosion of any of these chemicals would not adversely affect operation of BBNPP.

Railways

The Canadian Pacific Railway is the only frequently operated railway within 5 mi (8 km) of BBNPP. This railway transports chemicals that could pose a threat of a delayed vapor cloud ignition. The chemicals that were analyzed for potential delayed vapor cloud ignitions are ammonia and butane. A conservative analysis using TNT equivalency methods as described in Section 2.2.3.1 was used to determine safe distances for the storage of the identified hazardous materials.

The amount of hazardous chemical was conservatively chosen to be the maximum allowable capacity of a railroad tank car. This is 34,500 gal (130,600 l) or 263,000 lb (119,000 kg) per Federal Regulation 49 CFR 179.13 (CFR, 1970). In the cases of both ammonia and butane, the densities are low such that 34,500 gal is limiting. Ammonia is denser than butane, so the TNT equivalent explosion of ammonia bounds the TNT equivalent explosion of butane (34,500 gal of ammonia is equivalent to 196,234 lb (89,010 kg) of ammonia).

The safe standoff distance for ammonia is 1.0 mi (1.6 km). The nearest point of approach from the railroad to a BBNPP safety related structure is 1.45 mi (2.33 km). The minimum separation distances (i.e., safe distances) are less than the shortest distance from a safety-related BBNPP structures to the storage location of the identified chemicals. Therefore, an explosion from any of these chemicals would not adversely affect operation of BBNPP (Table 2.2-8).}

Explosion Related Impacts Affecting the U.S. EPR Design

The U.S. EPR design is acceptable for any site when reasonable qualitative arguments can demonstrate that the realistic probability of severe consequences from any external accident is less than 1.0E-6 per year. Regulatory Guide 1.91 (NRC, 1978a) cites 1 psi (6.9 kPa) as a conservative value of peak positive incident overpressure, below which no significant damage would be expected. Safety-related {BBNPP} structures are designed to withstand a peak positive overpressure of at least 1 psi without loss of function.

{The analyses presented in this section demonstrate that a 1 psi (6.9 kPa) peak positive overpressure will not be exceeded at a safety-related structure for any of the postulated explosion event scenarios. As a result, postulated explosion event scenarios will not result in severe consequences.}

2.2.3.1.2 Flammable Vapor Clouds (Delayed Ignition)

Flammable gases in the liquid or gaseous state can form an unconfined vapor cloud that could drift toward the plant before ignition occurs. When a flammable chemical is released into the atmosphere and forms a vapor cloud it disperses as it travels downwind. The parts of the cloud where the concentration is within the flammable range, between the lower and upper flammability limits, may burn if the cloud encounters an ignition source. The speed at which the flame front moves through the cloud determines whether it is a deflagration or a detonation. If the cloud burns fast enough to create a detonation an explosive force is generated.

{The potentially explosive chemicals at SSES Units 1 and 2 and at BBNPP} are shown in Table 2.2-5. Hazardous materials potentially transported on { U.S. Route 11, the railways, or waterways are shown on Table 2.2-3 and Table 2.2-7, and hazardous materials at nearby facilities are shown on Table 2.2-6.} These chemicals were evaluated to ascertain which hazardous materials had the potential to form a flammable vapor cloud or vapor cloud explosion. For those chemicals with an identified flammability range, the Areal Locations of Hazardous Atmospheres (ALOHA) air dispersion model was used to determine the distances where the vapor cloud may exist between the upper flammability limit (UFL) and the lower flammability limit (LFL), presenting the possibility of ignition and potential thermal radiation effects (ALOHA, 2007).

The identified chemicals were also evaluated to determine the possible effects of a flammable vapor cloud explosion. ALOHA was used to model the worst case accidental vapor cloud explosion, including the safe distances and overpressure effects at the nearest safety-related {BBNPP} structure. To model the worst case in ALOHA, ignition by detonation was chosen for the ignition source. The safe distance was measured as the distance from the spill site to the location where the pressure wave is at 1 psi (6.9 kPa) overpressure.

Conservative assumptions were used in both ALOHA analyses with regard to meteorological inputs and identified scenarios. The following meteorological assumptions were used as inputs to the computer model, ALOHA: Pasquill stability class F (stable), with a wind speed of 1 m/sec; ambient temperature of 25°C; relative humidity 50%; cloud cover 50%; and an atmospheric pressure of 1 atmosphere. Pasquill Stability class F represents the most limiting 5% of meteorological conditions observed at a majority of nuclear plant sites. For each of the identified chemicals, it was conservatively assumed that the entire contents of the vessel leaked forming a 1 cm thick puddle {or that the entire contents were released instantaneously as a gas}. This provides a significant surface area to maximize evaporation and the formation of a vapor cloud {in the case of liquid releases, and maximizes the peak concentration in the case of gas releases.

Using ALOHA is conservative, however, should the results not meet the acceptance criteria, additional mitigating factors (plume rise, plume meander, etc.) are considered in the analysis. The Safety Evaluation Report related to the construction of Hartsfield Nuclear Power Plants concluded that "the state of knowledge concerning the chemical reactions of natural gas mixed with air is sufficiently well established to form a basis for the judgment that the detonation of an unconfined natural gas dispersal in air is not a credible event" (NRC, 1976). If it can be shown that the vapor cloud rises to an elevation such that the concentration is below the lower flammable limit at the highest point of the plant structures, the cloud will be completely unconfined, and a vapor cloud detonation will not occur. Also, at that elevation there will be no credible ignition source. To determine if the vapor cloud will be above the plant structures, a plume buoyancy model was used. In addition, Regulatory Guide 1.145 indicates that meander can be considered in calculating the concentration at a point (NRC, 1982).

The analyzed effects of flammable vapor clouds and vapor cloud explosions from internal and external sources are summarized in Table 2.2-9 and are described in the following sections relative to the release source.

Pipelines

Transco operates a pipeline corridor that passes within the vicinity of the BBNPP site. At its closest distance, this pipeline passes within approximately 1.89 mi (3.04 km) of BBNPP. UGI operates a pipeline corridor that passes within the vicinity of the BBNPP site. At its closest distance, this pipeline passes within approximately 0.44 mi (0.71 km) of BBNPP.

These two limiting pipelines were analyzed using the methods detailed above. The maximum concentration of natural gas at a BBNPP safety related building following a rupture of the Transco pipeline is 1.76%. The maximum concentration of natural gas at a BBNPP safety related building following a rupture of the UGI pipeline is 1.32%. These are less than the lower flammable limit for natural gas, 4.4%. In addition, because the concentrations are below the LEL, a delayed flammable vapor cloud ignition can not occur, and therefore there will be no explosive overpressure. The results of flammable vapor cloud ignition analyses are summarized in Table 2.2-9.

Waterway Traffic

The Susquehanna River is the only waterway within 5 mi (8 km) of BBNPP. The Susquehanna River is too shallow for any boat aside from personal watercraft. No releases or delayed ignition explosions are analyzed for any boats or barges inTable 2.2-9 .

Highways

The closest safety-related BBNPP structure is located approximately 0.95 mi (1.53 km) from U.S. Route 11. The hazardous materials potentially transported on U.S. Route 11 that were identified for further analysis are gasoline and acetylene. The methodology presented previously in Section 2.2.3.1.2 was used for determining the safe distance for vapor cloud ignition and delayed vapor cloud explosion. Consistent with Federal Regulation 23 CFR 658.17 (CFR, 1998), it was conservatively estimated that the gasoline tanker truck carried and released 80,000 lb (36,300 kg) of the identified chemical. The largest amount of acetylene on a truck that was analyzed was 16,000 lb (7,260 kg).

Each of the identified hazardous materials was also evaluated, using the methodology presented previously in this section, to determine the effects of a possible vapor cloud explosion. The minimum separation distance (i.e., safe distance) for gasoline is 0.40 mi (0.64 km), and for acetylene is 0.79 mi (1.27 km). The minimum separation distances for explosions involving the identified chemicals to have less than a 1 psi (6.9 kPa) peak incident pressure from a drifted vapor cloud are less than the shortest distance between any safety-related BBNPP structures and any point on U.S. Route 11. Therefore, a delayed flammable vapor cloud explosion involving the identified hazardous material with the potential to be transported on U.S. Route 11, would not adversely affect the safe operation of BBNPP}.

The results of flammable vapor cloud ignition and explosion analyses are summarized in Table 2.2-9.

{Adjacent Site and Onsite Chemicals

BBNPP is located in close proximity to the existing SSES Units 1 and 2 and the associated chemical storage locations. The hazardous materials stored at the SSES Units 1 and 2 site that were identified for further analysis with regard to the potential of delayed ignition and explosion of flammable vapor clouds are gasoline and hydrogen.}

As described previously in Section 2.2.3.1.2, the ALOHA dispersion model was used to determine the distance a vapor cloud can travel before reaching the {LEL} boundary (i.e., the {point at which the vapor cloud is no longer explosive}) once a vapor cloud has formed from release of the identified chemical. {The maximum concentration of hydrogen at any safety related building is 1.49%. This is less than the lower flammable limit for hydrogen, 4%. In addition, because the concentration is below the LEL, a delayed flammable vapor cloud ignition can not occur, and therefore there will be no explosive overpressure. The results of flammable vapor cloud ignition analyses are summarized in Table 2.2-9.}

A vapor cloud explosion analysis was also performed using the methodology described in Section 2.2.3.1.2 to obtain minimum separation distances (i.e., safe distances) for the identified chemicals. {The results indicate that the minimum separation distance (i.e., the distance required for an explosion to have less than a 1 psi (6.9 kPa) peak incident pressure) is less than the shortest distance between a safety-related BBNPP structure from the storage location of these chemicals.

The minimum separation distance for the 80,000 lb (36,287 kg) of gasoline in the tank truck is 0.40 mi (0.64 km). This bounds the instance of 61,642 lb (27,960 kg) of gasoline that is stored on the SSES site. Because the minimum separation distance for a delayed vapor cloud explosion is less than the distance from the source to the nearest BBNPP safety related structure, the concentration of the gasoline will be less than the LEL at all BBNPP safety related structures. The results of flammable vapor cloud ignition analyses are summarized in Table 2.2-9.

Therefore, a flammable vapor cloud ignition or vapor cloud explosion involving the identified chemicals would not adversely affect the safe operation of BBNPP.

The hazardous materials stored onsite that were identified for further analysis with regard to the potential of delayed ignition and explosion of flammable vapor clouds were ammonium hydroxide, dimethylamine, gasoline, hydrogen and argon-methane.

The minimum separation distance for the ammonium hydroxide is 735 ft (224 m); for the dimethylamine is 291 ft (89 m); for the gasoline is 1,323 ft (403 m), for the hydrogen tank (48.05 pounds) is 990 ft (302 m); for the argon-methane mixture is 258 ft (79 m); and for the hydrogen cylinder (1.45 pounds) is 219 ft (67 m).}

The results of flammable vapor cloud ignition and explosion analyses are summarized in Table 2.2-9.

<u>{Nearby Facilities</u>

There are two additional offsite facilities that store explosive chemicals that are identified for further analysis. The hazardous materials stored at nearby facilities that were identified for further analysis with regard to explosive potential are propane stored at Heller's Gas & Custom Made Fireplaces, and natural gas stored at Deluxe Building Systems. The methodology presented previously in Section 2.2.3.1.2 was used for determining the safe distance for vapor cloud ignition and delayed vapor cloud explosion.

The minimum separation distance for the propane is 1.1 mi (1.8 km). This is less than the distance between Heller's Gas & Custom Made Fireplaces and any BBNPP safety related structure, 1.68 mi (2.70 km). The minimum separation distance for the natural gas is 2.9 mi

(4.7 km). This is less than the distance between Deluxe Building systems and any BBNPP safety related structure, 4.48 mi (7.21 km). Because the minimum separation distance for a delayed vapor cloud explosion is less than the distance from the source to the nearest BBNPP safety related structure, the concentration of these chemicals will be less than the LEL at all BBNPP safety related structures.

The results of flammable vapor cloud ignition and explosion analyses are summarized in Table 2.2-9.

Railways

The Canadian Pacific Railway is the only frequently operated railway within 5 mi (8 km) of BBNPP. This railway transports chemicals that could pose a threat of a delayed vapor cloud ignition. The chemicals that were analyzed for potential delayed vapor cloud ignitions are ammonia and butane. The methodology presented previously in Section 2.2.3.1.2 was used for determining the safe distance for vapor cloud ignition and delayed vapor cloud explosion.

The safe standoff distance for a delayed vapor cloud ignition is 1.2 mi (1.9 km) for an ammonia release and 1.2 mi (1.9 km) for a butane release. The nearest point of approach from the railroad to a BBNPP safety related structure is 1.45 mi (2.33 km). Because the minimum separation distance for a delayed vapor cloud explosion is less than the distance from the source to the nearest BBNPP safety related structure, the concentration of these chemicals will be less than the LEL at all BBNPP safety related structures.

The results of flammable vapor cloud ignition and explosion analyses are summarized in Table 2.2-9.}

Flammable Vapor Cloud (Delayed Ignition) Related Impacts Affecting the U.S. EPR Design

The U.S. EPR design is acceptable for any site when reasonable qualitative arguments can demonstrate that the realistic probability of severe consequences from any external accident is less than 1.0E-6 occurrences per year. Regulatory Guide 1.91 (NRC, 1978a) cites 1 psi (6.9 kPa) as a conservative value of peak positive incident overpressure, below which no significant damage would be expected. Safety-related {BBNPP} structures are designed to withstand a peak positive overpressure of at least 1 psi without loss of function.

The analyses presented in this section demonstrate that a 1 psi (6.9 kPa) peak positive overpressure will not be exceeded at a safety-related structure for any of the postulated flammable vapor cloud, delayed ignition event scenarios.

2.2.3.1.3 Toxic Chemicals

Accidents involving the release of toxic chemicals from onsite {and adjacent site} storage facilities and nearby mobile and stationary sources were considered. Toxic chemicals known to be present on site or in the vicinity of the {BBNPP} site, or to be frequently transported in the vicinity were evaluated. NRC Regulatory Guide 1.78, Revision 1, Evaluating the Habitability of a Nuclear Power Plant Control Room During a Postulated Hazardous Chemical Release (NRC, 2001), requires evaluation of control room habitability after a postulated external release of hazardous chemicals from mobile or stationary sources, offsite or onsite.

{The potential adjacent site and onsite chemicals are identified in Table 2.2-5, hazardous materials potentially transported on U.S. Route 11, the railroads, or the waterways are identified inTable 2.2-3 and Table 2.2-7. Hazardous materials at nearby facilities are identified in Table 2.2-6}. These chemicals were evaluated to ascertain which hazardous materials were analyzed with respect to their potential to form a toxic vapor cloud after an accidental release.

The ALOHA model was used to determine the maximum distance various postulated vapor clouds would travel before they dispersed enough to fall below the associated National Institute of Occupational Safety and Health (NIOSH) defined Immediately Dangerous to Life and Health (IDLH) threshold values. The ALOHA model was also used to predict the post-release chemical concentrations in the control room to ensure that under a worst case scenario event the control room operators will have sufficient time to take appropriate action.

The IDLH is defined by the NIOSH as a situation that poses a threat of exposure to airborne contaminants when that exposure is likely to cause death or immediate or delayed permanent adverse health effects or prevent escape from such an environment. The IDLHs determined by NIOSH are established such that workers are able to escape such an environment without suffering permanent health damage.

{Meteorological assumptions were used to determine chemical concentrations: Pasquill stability class F (stable), with a wind speed of 1 m/sec; ambient temperature of 25°C; relative humidity of 50%; cloud cover, 50%; and an atmospheric pressure of 1 atmosphere. For sources that are described using the ALOHA model, a control room air exchange rate of 0.3 air changes per hour was used. This air exchange rate was calculated from the control room volume and the rate of air intake. U.S. EPR FSAR Section 9.4.1 provides a description of the Control Room HVAC System. Under normal operation, outside air is brought in through two air intakes in order to maintain the control room envelope at a positive pressure. The control room envelope has a volume of approximately 200,000 ft^3 (5,663 m^3) and the flow rate of outside air through the two air intakes is as much as 1,000 cfm (total) (28 m^3/min). Using this information results in an effective air change rate (based on outside air) of:

(1000 cfm * 60) / 200,000 ft^3 = 0.3 air changes per hour

In addition, Regulatory Guide 1.78 states that if the toxic gas can be detected within two minutes of reaching the IDLH, the MCR operators will have enough time to don a respirator (NRC, 2001).}

The effects of toxic chemical releases from internal and external sources are summarized in Table 2.2-10 and are described in the following sections relative to the release source.

Pipelines

Transco operates a pipeline corridor that passes within the vicinity of the BBNPP site. At its closest distance, this pipeline passes within approximately 1.89 mi (3.04 km) of BBNPP. The Transco pipeline carries natural gas. UGI operates a pipeline corridor that passes within the vicinity of the BBNPP site. At its closest distance, this pipeline passes within approximately 0.44 mi (0.71 km) of BBNPP. The UGI pipeline carries natural gas. Sunoco operates a pipeline corridor that passes within the vicinity of the BBNPP site. At its closest distance, this pipeline passes within approximately 2.03 mi (3.27 km) of BBNPP. The Sonoco pipeline carries gasoline.

From NUREG/CR-6624, the IDLH for natural gas should be taken as 10% of the lower explosive limit (NRC, 1999) (5,000 ppm is used as the IDLH for natural gas). Natural gas concentrations were determined at the control room following the ruptures in the UGI and Transco pipelines. The maximum concentration of natural gas in the main control room following the release was calculated to be greater than 5,000 ppm. However, more than two minutes will elapse between the time when the concentration of natural gas in the main control room reaches the odor threshold (20 ppm for odorized natural gas) and the time when the concentration reaches the IDLH. Because of this, the main control room operators will have the expected two minutes to don a respirator.

The short term exposure limit for gasoline is 500 ppm. The maximum outdoor concentration of gasoline vapor at BBNPP following the release of gasoline from the gasoline pipeline is less than 100 ppm. This is less than the STEL for gasoline; therefore the concentration of gasoline in the main control room will always be less than the allowable concentration.

The identified chemicals had analyzed consequences that were below the guidance provided in 10 CFR Part 100. Therefore, toxic vapor clouds resulting from ruptures of pipelines will not adversely affect the safe operation of BBNPP. The effects of toxic chemical releases are summarized in Table 2.2-10.

<u>Waterway Traffic</u>

The Susquehanna River is the only waterway within 5 mi (8 km) of BBNPP. The Susquehanna River is too shallow for any boat aside from personal watercraft. No releases of toxic chemicals are analyzed for any boats or barges.

<u>Highways</u>

The BBNPP reactor building is located 1.1 mi (1.8 km) from U.S. Route 11 at its closest approach. The hazardous materials transported on U.S. Route 11 satisfy the Regulatory Guide 1.78 (NRC, 2001) screening criteria and therefore did not require further analysis with regard to the potential of forming a toxic vapor cloud after an accidental release. Therefore, toxic vapor clouds resulting from chemical spills on U.S. Route 11 will not adversely affect the safe operation of BBNPP.} The effects of toxic chemical releases are summarized in Table 2.2-10.

{<u>Adjacent Site and Onsite Chemical Storages</u>

The hazardous material stored at SSES that were identified for further analysis with regard to the potential for the formation of toxic vapor clouds formed after an accidental release is sodium hypochlorite. Sodium hypochlorite is commonly known as bleach, however, to be conservative, it was assumed that the entire mass of chlorine in the sodium hypochlorite disassociated instantaneously into chlorine gas. The largest tank of sodium hypochlorite is 72,571 lb (32,918 kg) of sodium hypochlorite solution.

As described in Section 2.2.3.1.3, the identified hazardous material was analyzed utilizing the ALOHA dispersion model to determine whether the formed vapor cloud will reach the control room intake and what the concentration of the toxic chemical will be in the main control room after an accidental release.

Chlorine gas concentrations were determined at the control room after a release of the largest vessel. The maximum concentration of chlorine in the main control room following the release was calculated to be 4.94 ppm. This is less than the IDLH for chlorine gas, 10 ppm.

The identified chemical had an analyzed consequence that was below the guidance provided in 10 CFR Part 100. Therefore, toxic vapor clouds resulting from chemical spills of adjacent site chemicals will not adversely affect the safe operation of BBNPP.

The hazardous onsite chemicals that were identified for further analysis with regard to toxicity are ammonium hydroxide, dimethylamine, gasoline, hydrazine, hydrogen, liquid nitrogen, argon, argon-methane mixture, nitrogen gas, oxygen, Depositrol BL5323, and sodium bisulfite. These chemicals were analyzed in ALOHA in order to determine the minimum safe distance. The minimum distance is safe if: a) the concentration will not be greater than the IDLH, or b) more than two minutes will elapse between the time when the concentration in the MCR reaches the odor threshold and when the concentration reaches the IDLH.

The minimum safe distance from the MCR air intakes for the ammonium hydroxide is 1,700 ft (518 m); for the dimethylamine is 33 ft (10 m); for the gasoline is 343 ft (105 m); for the hydrazine is 74 ft (23 m); for the hydrogen tank (48.05 pounds) is 173 ft (53 m); for the liquid nitrogen is 375 ft (114 m), for the argon-methane mixture is 33 ft (10 m); for the hydrogen cylinder (1.45 pounds) is 33 ft (10 m); for the nitrogen gas is 33 ft (10 m); for the oxygen is 33 ft (10 m); and for the sodium bisulfite is 479 ft (146 m). The Depositrol BL5323 is bounded by the gasoline, and the standoff distance is therefore 343 ft (105 m). Each of these chemicals will be always be further from the MCR air intakes than these standoff distances.

The maximum concentrations of ammonium hydroxide and hydrazine in the main control room following the release are calculated to be greater than the IDLH (300 ppm and 50 ppm respectively). However, more than two minutes will elapse between the time when the concentrations of these chemicals in the main control room reach the odor thresholds (50 ppm for ammonia and 4 ppm for hydrazine) and the time when the concentrations reach the IDLH of that chemical. Because of this, the main control room operators will have the expected two minutes to don a respirator.}

The effects of toxic chemical releases are summarized in Table 2.2-10.

<u>{Railways</u>

The hazardous material transported along the Canadian Pacific Railway that was identified for further analysis with regard to the potential for the formation of toxic vapor clouds formed after an accidental release is ammonia. As discussed in Section 2.2.3.1.1, 196,234 lb (89,010 kg) of ammonia is released in this analysis.

As described in Section 2.2.3.1.3, the identified hazardous material was analyzed utilizing the ALOHA dispersion model to determine whether the formed vapor cloud will reach the control room intake and what the concentration of the toxic chemical will be in the main control room after an accidental release.

Ammonia concentrations were determined at the control room after a release of the largest vessel. The maximum concentration of ammonia in the main control room following the release was calculated to be greater than the IDLH for ammonia, 300 ppm. However, more than two minutes will elapse between the time when the concentration of ammonia in the main control room reaches the odor threshold (50 ppm) for ammonia and the time when the concentration reaches the IDLH. Because of this, the main control room operators will have two minutes to don a respirator.

Toxic vapor clouds resulting from spills of chemicals that are transported by railways in the vicinity of BBNPP will not adversely affect the safe operation of BBNPP.} The effects of toxic chemical releases are summarized in Table 2.2-10

Toxic Chemical Related Impacts Affecting the U.S. EPR Design

The U.S. EPR design is acceptable for any site when reasonable qualitative arguments can demonstrate that the realistic probability of severe consequences from any external accident is less than 1.0E-6 per year. {The analyses presented in this section demonstrate that toxic chemical concentrations that could present an immediate hazard to plant personnel will not result from postulated chemical releases. For ammonia and natural gas, it was demonstrated that the main control room operators will have more than two minutes to don a respirator, meeting the acceptance criteria from Regulatory Guide 1.78 (NRC, 2001).}

2.2.3.1.4 Fires

Accidents leading to high heat fluxes or smoke, and non-flammable gas or chemical bearing clouds from the release of materials, as the consequence of fires in the vicinity of the plant were considered. Fires in adjacent industrial plants and storage facilities, oil and gas pipelines, brush and forest fires, and fires from transportation accidents were evaluated as events that could lead to high heat fluxes or to the formation of such clouds.

{The chemical releases that were analyzed for potentially leading to high heat fluxes at BBNPP safety related buildings were: a hydrogen tank boiling liquid expanding vapor explosion (BLEVE) on the Susquehanna site, a gasoline pool fire due to a spill of a tanker truck, an acetylene tank BLEVE from a delivery truck to Western International Gas, a butane BLEVE of a Canadian Pacific Railway tankcar, a propane tank BLEVE from Heller's Gas & Custom Made Fireplaces, and the jet fires caused by the rupturing of the two natural gas pipelines UGI and Transco.

Of these instances, the highest heat flux into a BBNPP safety related building is 0.929 kW/m^2 resulting from the hydrogen tank BLEVE, however the fireball will fully burn in 7 seconds, so the total heat transfer to the building is limited. The jet fire from the Transco pipeline will have a radiative heat flux of 0.204 kW/m^2 and will continue until the pipeline is isolated. The rest of the chemical fires are bounded either in terms of time or intensity by these two instances.

Fires which could result in smoke clouds at the site may arise from brush and forest fires, oil spills from adjacent pipelines, and transportation accidents. A fire from a natural gas pipeline could result in a transient radiant heat flux of very short duration (a few seconds) if the flame front were as close as 1,500 ft (457 m). However, the condition is not sustainable and would become limited to about 2,000 ft to 3,000 ft (610 m to 914 m) from the point of pipeline rupture.

An oil fire from a pipeline rupture at the river, followed by ignition of a pool of floating oil could produce 1.5 kg/sec (3.3 lb/sec) of particulates for each 1,000 barrels per hour of fuel consumed in open area burning. For pool or choked burning, i.e., sooting conditions, the particulate generation could reach 10 kg/sec (22 lb/sec). Maximum smoke concentration at the site could reach 250 milligrams/cubic meter. No radiant heat problem at the site would be expected, since firefighting equipment would normally be able to use the road between the site and river bank. However, the onsite fire brigade would respond to any fire at the intake location. The fire hydrant and hose located at the intake would be used to mitigate the effects of the potential radiant heat associated with an oil fire at the river.

The usual failure mode of oil pipelines, the distances to structures containing safety related equipment, and the nature of oil spills on rivers minimize the potential of an oil fire impacting BBNPP. However, as a worst case, it could be assumed that the pipeline will continue to flow for one half hour after the rupture. Since the maximum flow rate in the Sunoco Pipeline (the closest oil pipeline to the site) is 800 barrels per hour, this would produce a spill of 400 barrels plus the amount remaining in the pipeline up to the points of shutoff in each direction. This distance would be about 0.75 mi (1.21 km) in the near direction and about 8 mi (13 km) in the far direction, if it is assumed that pipeline rupture occurs at the shutoff point closest to the site. This gives a volume of approximately 1,970 barrels. When added to the 400 barrels for the amount spilled before shutoff, the total worst case spill would be 2,370 barrels.

The fire would basically burn until the spill was shutoff, one half hour under the worst case conditions. However, it may be that the spill, if it reaches the Susquehanna River, might spread out on the surface of the river and continue to burn until the spill thickness passes below some minimum which will no longer sustain combustion. Under the worst case circumstances, the thickness of the slick by the area over which the spill will spread can be estimated. A well recognized formula (Fay 1971) for this spreading is:

$$A = 10^5 \text{ x } v^{3/4}$$

where A is the spill area in square meters and V is the spill volume in cubic meters. The thickness is then estimated by dividing the volume by the spill area. For the aforementioned worst case 2,370 barrel spill, the formula gives a thickness (at maximum spread) of only 4.2 x 103 cm. At a typical burning rate of one inch per hour, this thickness would be consumed in less than 10 seconds. Therefore, it would appear that a spill from the Sunoco Pipeline would not be able to burn for much longer than the one half hour maximum flow time until shutoff. This evaluation assumes the oil is spilled on a calm lake. The postulated exposure and the chance for ignition would be minimized by the river flow. The gas line would not create any smoke problem, but could ignite brush or forest areas. Combustible cover to the northwest of the plant is heavy along Lee Mountain, 3,200 ac (1,295 ha) at about 3 mi (4.8 km) distance, and over a low ridge north of the plant boundary, 250 ac (101 ha) at 1 mi (1.6 km). The smoke particulate load estimated from a fire consuming 40 ac per hour (low wind condition, associated with atmospheric stagnation) would be at 210 kg total particulates per hectare (EPA, 1996), 160 and 22 milligrams/cubic meter for fires at 1 mi (1.6 km) and 3 mi (4.8 km), respectively.

According to the National Fire Protection Association (NFPA) Standard 1144, Standard for Reducing Structure Ignition Hazards from Wildland Fire, a defensible space is an area that is typically defined as having a width of at least 30 ft (9 m) between an improved property and a potential wildland fire where combustible materials and vegetation have been removed to reduce the potential for fire on improved property spreading to wildland fuels or to provide a safe working area for fire fighters protecting life and improved property from wildland fire. A minimum distance for fuel modification should be 30 ft (9 m) from structures. Studies of structural ignition from radiant heat indicate that ignitions are unlikely to occur from burning vegetation beyond

120 ft (37 m) from a structure. Therefore, clearing of vegetation and thinning of trees to a distance of 120 ft (37 m) from a dwelling, as in a zoned Firewise landscape, will prevent ignition of a structure from the radiant heat from a flame front in a high-risk ecosystem. (NFPA, 2008)

The BBNPP site will be sufficiently cleared of brush, forest, woodland prior to construction and operation. These cleared zones are of sufficient size to afford substantial protection in the event of a fire, and it is not expected that there would be any hazardous effects from fires or heat fluxes associated with wild fires, fires in adjacent industrial plants or from onsite storage facilities.}

Fire Related Impacts Affecting the U.S. EPR Design

The U.S. EPR design is acceptable for any site when reasonable qualitative arguments can demonstrate that the realistic probability of severe consequences from any external accident is less than 1.0E-6 occurrences per year. {The use of cleared fuel breaks around safety-related BBNPP structures will ensure that external fire related impacts will not have severe consequences.}

2.2.3.1.5 Collisions with Intake Structure

{The Bell Bend intake structure is located on the Susquehanna River downstream of the SSES Unit 1 and 2 intake structure. The Susquehanna River is not used as a navigable waterway for other than small recreational boats, which do not constitute any hazard potential to the intake structure.}

2.2.3.1.6 Liquid Spills

The accidental release of oil or liquids that may be corrosive, cryogenic, or coagulant were considered to determine if the potential exists for such liquids to be drawn into the plant's intake structure and circulating water system or otherwise affect the plant's safe operation.

{The BBNPP Raw Water Supply System (RWSS) pumps and Circulating Water System (CWS) makeup pumps draw water through the intake structure forebay on the bank of the Susquehanna River. Present at the forebay of the intake structure is a curtain wall that assists in preventing floating pollutants, such as petroleum products, from reaching the intake pumps suction.

The Susquehanna River is not utilized for industrial transportation; however, petroleum spills could occur from a pipeline rupture near the Susquehanna River. Any chemical liquids that have a specific gravity of less than one would float on the surface of the river. Therefore, these liquids if spilled would not only be diluted by the Susquehanna River water, but would float on the surface and consequently would not likely reach the pumps suction beyond the intake structure's curtain wall.

Any liquid spills that would solidify in the water that reached the intake structure would be removed by the bar grating or traveling screen in the intake structure system.}

Liquid Spill Impacts Affecting the U.S. EPR Design

The U.S. EPR design is acceptable for any site when reasonable qualitative arguments can demonstrate that the realistic probability of severe consequences from any external accident is less than 1.0E-6 occurrences per year. In the case of liquid spills, {the BBNPP intake structure is well protected. Chemical spills would either be sufficiently diluted before reaching the BBNPP intake structure or would be swept downstream of the intake structure by the Susquehanna River current. Any liquid spills that would solidify in the water that reached the intake structure would be removed by the traveling screens on the intake structure. In each case, there would be no significant damage to the BBNPP intake structure. As a result, the unlikely event of liquid spills will not result in severe consequences.}

2.2.3.1.7 Radiological Hazards

{The release of radioactive material from SSES Units 1 and 2 as a result of normal operations or an unanticipated event would not threaten the safety of the plant or personnel at BBNPP. The control room habitability system for the U.S. EPR provides the capability to detect and protect main control room personnel from external fire, smoke, and airborne radioactivity. In addition, safety-related structures, systems, and components for the U.S. EPR have been designed to withstand the effects of radiological events and the consequential releases that would bound the contamination from a release from either of these potential sources.}

Radiological Hazard Impacts Affecting the U.S. EPR Design

The U.S. EPR design is acceptable for any site when reasonable qualitative arguments can demonstrate that the realistic probability of severe consequences from any external accident is less than 1.0E-6 occurrences per year. In the case of radiological hazards, the control room habitability system for the U.S. EPR provides the capability to detect and protect main control room personnel from external fire, smoke, and airborne radioactivity. In addition, safety-related structures, systems, and components for the U.S. EPR have been designed to withstand the effects of radiological events and the consequential releases that would bound the contamination from a release from either of these potential sources. As a result, radiological hazards will not result in severe consequences.

2.2.3.2 Effects of Design-Basis Events

{As concluded in the previous sections, the only event requiring further analysis for consideration as a design-basis is related to the frequency of aircraft impact in the vicinity of the BBNPP site. A probabilistic analysis which presents the probability of aircraft accidents which could potentially result in radiological consequences for the U.S. EPR at the BBNPP site is presented in Section 19.1.5.4.4.}

2.2.4 REFERENCES

ALOHA, 2007. Areal Locations of Hazardous Atmospheres (ALOHA) Version 5.4.1, NOAA, February 2007, Website: http://www.epa.gov/emergencies/content/cameo/index.htm.

Airnav, 2008. Airnav.com, Website: http://www.airnav.com/airports/, Date accessed: March 2008.

CFR, 1970. Tank Car Capacity and Gross Weight Limitation, Title 49, Code of Federal Regulations, Part 179.13, 1970.

CFR, 1998. Truck Size and Weight, Route Designations - Length, Width and Weight Limitations, Title 23, Code of Federal Regulations, Part 658.17, 1998.

CFR, 2007a. Standards for Protection Against Radiation, Title 10, Code of Federal Regulations, Part 20, U. S. Nuclear Regulatory Commission, 2007.

CFR, 2007b. Domestic Licensing of Production and Utilization Facilities, Title 10, Code of Federal Regulations, Part 50, U. S. Nuclear Regulatory Commission, 2007.

CFR, 2007c. Contents of Applications; Technical Information, Title 10, Code of Federal Regulations, Part 50.34, U. S. Nuclear Regulatory Commission, 2007.

CFR, 2007d. Reactor Site Criteria, Title 10, Code of Federal Regulations, Part 100, U. S. Nuclear Regulatory Commission, 2007.

CFR, 2007e. Factors to be Considered when Evaluating Sites, Title 10, Code of Federal Regulations, Part 100.20, U. S. Nuclear Regulatory Commission, 2007.

CFR, 2007f. Non-seismic Site Criteria, Title 10, Code of Federal Regulations, Part 100.21, U. S. Nuclear Regulatory Commission, 2007.

CFR, 2007g. Contents of Applications; Technical Information in Final Safety Analysis Report, Title 10, Code of Federal Regulations, Part 52.79, U. S. Nuclear Regulatory Commission, 2007.

Deluxe, 2008. Deluxe Building Systems, Deluxe Building Systems, Inc. Website: http://www.deluxebuildingsystems.com, Date accessed: May 2008.

DOE, 1996. DOE-STD-3014-96, "Accident Analysis for Aircraft Crash into Hazardous Facilities" October 1996.

EPA, 1996. AP 42, Chapter 13.1: Wildfires and Prescribed Burning, U.S. Environmental Protection Agency, 1996.

ESRI, 2008. ArcView, version 9.2, November 2006, Dates accessed: May and June 2008.

FAA, 2007. FAA Terminal Area Forecast: National Forecast 2007 - Airport Operations, Federal Aviation Administration, Website: http://aspm.faa.gov/main/taf.asp, Date accessed: May 2008.

Fay, 1971. Physical Processes in the Spread of Oil on a Water Surface, pp. 463-467, American Petroleum Institute, Proceedings of the Joint Conference on Prevention and Control of Oil Spills, J.A. Fay, June 1971.

FMIC, 2005. Guidelines for Evaluating the Effects of Vapor Cloud Explosions Using a TNT Equivalency Method, Factory Mutual Insurance Company, May 2005.

Heller's Gas, 2008. Heller's Gas Inc, Website: http://www.hellersgas.com/index.html#, Date accessed: May 2008.

Lackawanna-Luzerne, 2007. Luzerne County Pennsylvania Website: www.lackawanna-luzerneplans.com

Luzerne County, 2007. Action Plan 2007-2008, Luzerne County, January 2007, Website: http://www.luzernecounty.org/content/File/ocd/ActionPlan_0708.pdf, Date accessed: June 2008.

Luzerne County, 2008. Susquehanna Warrior Trail, Luzerne County, Website: http://www.luzernecounty.org/county/departments_agencies/recreation/trails/susquehanna-warrior-trail, Date accessed: June 2008.

SSESMPO, 2008. Proposed 2009-2012 Transportation Improvement Plan, Lackawanna/Luzerne Metropolitan Planning Organization, April 2008, Website: http://www.luzernecounty.org/content/File/lltspublic%20rrr200920012.pdf, Date accessed: June 2008.

NFPA, 2008. Standard 1144, Standard for Reducing Structure Ignition Hazards from Wildland Fire, National Fire Protection Association, 2008.

NRC, 1978a. Evaluations of Explosions Postulated To Occur on Transportation Routes Near Nuclear Power Plants, Regulatory Guide 1.91, Revision 1, U. S. Nuclear Regulatory Commission, February, 1978.

NRC, 1978b. Standard Format and Content of Safety Analysis Reports for Nuclear Power Plants, Regulatory Guide 1.70, Revision 3, U. S. Nuclear Regulatory Commission, November, 1978.

NRC, 1976. Safety Evaluation Report Related to Construction of Hartsfield Nuclear Plants Units A1, A2, B1 and B2, NUREG-0014, U.S. Nuclear Regulatory Commission, April 1976.

NRC, 1982. Atmospheric Dispersion Models for Potential Accident Consequence Assessments at Nuclear Power Plants, Regulatory Guide 1.145, U.S. Nuclear Regulatory Commission, November 1982.

NRC, 1998. General Site Suitability Criteria for Nuclear Power Stations, Regulatory Guide 4.7, Revision 2, U.S. Nuclear Regulatory Commission, April, 1998.

NRC, 1999. Recommendations for Revision of Regulatory Guide 1.78, NUREG/CR-6624, U.S. Nuclear Regulatory Commission, November 1999.

NRC, 2001. Evaluating the Habitability of a Nuclear Power Plant Control Room During a Postulated Hazardous Chemical Release, Regulatory Guide 1.78, Revision 1, U.S. Nuclear Regulatory Commission, December, 2001.

NRC, 2004a. Fire Dynamics Tools (FDTs) Quantitative Fire Hazard Analysis Methods for the U.S. Nuclear Regulatory Commission Fire Protection Inspection Program, NUREG-1805, U.S. Nuclear Regulatory Commission, December 2004.

NRC, 2007a. Standard Review Plan for the Review of Safety Analysis Reports for Nuclear Power Plants, NUREG-0800, U.S. Nuclear Regulatory Commission, March 2007.

NRC, 2007b. Combined License Applications for Nuclear Power Plants, Regulatory Guide 1.206, Revision 0, U.S. Nuclear Regulatory Commission, April, 2007.

NRC, 2008a. Susquehanna 1, U.S. Nuclear Regulatory Commission, February 14, 2008, Website: http://www.nrc.gov/info-finder/reactor/susq1.html, Date accessed: May 2008.

NRC, 2008b. Susquehanna 2, U.S. Nuclear Regulatory Commission, February 14, 2008, Website: http://www.nrc.gov/info-finder/reactor/susq2.html, Date accessed: May 2008.

Table 2.2-1 {Description of Facilities, Products, and Materials}

Facility	Concise Description	Primary Function	Number of persons employed	Major Products or Materials
Susquehanna Steam Electric Station (SSES) Units 1 and 2	SSES Units 1 and 2 are an 1,225 MWe and an 1,180 MWe, respectively, General Electric Type 4 boiling water reactors licensed by the Nuclear Regulatory Commission.	Nuclear Power Generator	1,000	Electrical Power
Deluxe Building Systems	Manufacturer of prefabricated structures, including single family homes, apartment buildings, hotels, and other buildings.	Manufacturer	150 - 300	Paint, adhesives, natural gas
Heller's Gas and Custom Made Fireplaces	Seller of propane.	Distribution	4	Propane
Western International Distribution Center	An acetylene distribution center that will not be in operation until Summer 2008.	Distribution	Not in operation.	Acetylene

Table 2.2-2 {SSES and BBNPP Chemical Storage}

(Page 1 of 2)

Material	Toxicity Limit	Largest Container Amount	Location
Susquehanna Steam Electric Station (SSES) Units 1 and 2			
Alcohol, Isopropyl	2,000 ppm	676 lbs (307 kg)	Warehouse
Argon, Liquid	69,200 ppm	4,315 ft^3	Cylinder Storage Area
Carbon Dioxide	40,000 ppm	25,000 lbs (11,340 kg)	Between Turbine Bldg and Circ Water Pumphouse
Diesel Fuel	Not toxic threat	1,940,072 lbs (880,002 kg)	Next to DG Buildings
Freon R-114	7,000 mg/m^3	24,343 lbs (11,042 kg)	Resin Bldg
Freon R-12	15,000 ppm	60,120 lbs (27,270 kg)	Resin Bldg
Gasoline, Benzene	500 ppm	61,642 lbs (27,960 kg)	Fuel Farm
Halon 1301	40,000 ppm	590 lbs (268 kg)	Security Control Center
Hydrogen, Liquid	4,000 ppm	10,017 lbs (4,544 kg)	Hydrogen-injection Tank Farm
Nitrogen, Liquid	69,200 ppm	10,318 lbs (4,680 kg)	N of S&A Bldg
Oxygen	683,700 ppm	85,500 lbs (38,782 kg)	Hydrogen-injection Tank Farm
PCL-57 (1-hydroxyethlyidene-1,1-diphosphonic acid or HDEP)	500 mg/m^3	24,490 lbs (11,108 kg)	Circ Water Pumphouse
Sodium bisulfite solution	100 ppm	17,100 lbs (7,756 kg)	Shed behind Acid/Chlorine Bldg
Sodium Hypochlorite, 12% (CWPH)	10 ppm	72,571 lbs (32,918 kg)	Circ Water Pumphouse
Sulfur Hexafluoride, Compressed	1,000 ppm	115 lbs (52 kg)	Hydrogen Tank Farm
Bell Bend Nuclear Power Plant (BBNPP)			
Ammonium Hydroxide (28% solution)	300 ppm	8,500 gal (32,000 l)	Potential Onsite Chemical at BBNPP
Diesel Fuel	Not toxic threat	125,000 gal (4.7E5 l)	Potential Onsite Chemical at BBNPP
Dimethylamine (2% solution)	500 ppm	350 gal (1,300 l)	Potential Onsite Chemical at BBNPP
Gasoline	500 ppm	4,000 gal (15,000 l)	Potential Onsite Chemical at BBNPP
Hydrazine (35% solution)	50 ppm	350 gal (1,300 l)	Potential Onsite Chemical at BBNPP
Hydrogen Tank	4,000 ppm	51.1 ft^3 at 2,450 psig, -20°F to 200°F	Potential Onsite Chemical at BBNPP
Liquid Nitrogen	69,200 ppm	11,300 gal (42,800 l) sat liquid at -250°F	Potential Onsite Chemical at BBNPP
Sodium Hypochlorite	10 ppm	8,500 gal (38,600 l)	Potential Onsite Chemical at BBNPP
Argon	69,200 ppm	270 scf (7.65 Nm^3) (1)	Potential Onsite Chemical at BBNPP
Argon-Methane (considered Methane)	5,000 ppm	282 scf (7.99 Nm^3) (1)	Potential Onsite Chemical at BBNPP
Hydrogen Cylinder	4,000 ppm	270 scf (7.65 Nm^3) (1)	Potential Onsite Chemical at BBNPP
Nitrogen Gas	69,200 ppm	278 scf (7.87 Nm^3) (1)	Potential Onsite Chemical at BBNPP

Table 2.2-2 {SSES and BBNPP Chemical Storage}

(Page 2 of 2)

Material	Toxicity Limit	Largest Container Amount	Location
Oxygen	683,700 ppm	235 scf (6.65 Nm^3) [(1)]	Potential Onsite Chemical at BBNPP
Deposit Control Agent BL5323	-	1,000 gal (3,785 l)	Potential Onsite Chemical at BBNPP
Sodium Bisulfite	100 as SO_2	500 gal (1,893 l))	Potential Onsite Chemical at BBNPP

Note:

(1) Standard conditions are 60°F and 14.7 psia

Table 2.2-3 {Hazardous Chemical Railway, Road, or Waterway Freight}

Material	Toxicity Limit (IDLH) ppm	Transportation Method	Amount (lbs) (kg)
Sodium Chlorate	(2)	Canadian Pacific Railway	(1)
Napthalene, Molten	(2)	Canadian Pacific Railway	(1)
Liquefied Petroleum Gases (Butane)	(2)	Canadian Pacific Railway	(1)
Chlorosilanes	(2)	Canadian Pacific Railway	(1)
Ammonia, Anhydrous	300	Canadian Pacific Railway	(1)
Sodium Hydroxide	(2)	Canadian Pacific Railway	(1)
Sulphur, Molten	(2)	Canadian Pacific Railway	(1)
Phenol, Molten	(2)	Canadian Pacific Railway	(1)
Gasoline, Benzene	(2)	Canadian Pacific Railway	(1)
Potassium Hydroxide	(2)	Canadian Pacific Railway	(1)
Acetone	(2)	Canadian Pacific Railway	(1)
Ammonium Nitrate Fertilizer	(2)	Canadian Pacific Railway	(1)
Terpene Hydrocarbons	(2)	Canadian Pacific Railway	(1)
Methyldichlorosilane	(2)	Canadian Pacific Railway	(1)
Ethyl Acetate	(2)	Canadian Pacific Railway	(1)
Gasoline	500 STEL	Truck on U.S. Route 11	80,000 (36,287)
Chlorine	10	Truck on U.S. Route 11	100 (45)
Acetylene	2,500 (3)	Truck on U.S. Route 11	16,000 (7,257)

Notes:

IDLH: Immediately Dangerous to Life and Health threshold value.

STEL: Short Term Exposure Limit threshold value. This is more conservative than IDLH.

(1) Per 49 CFR 179.13, the maximum load on a rail tank car is the lesser between 34,500 gal (130,597 l) or 263,000 lbs (119,295 kg).

(2) Ammonia is selected as the most toxic chemical that is transported by the Canadian Pacific Railway. All others are either less toxic or have a vapor pressure less than 10 mmHg (0.0013 mpa) at 100°F (38°C).

(3) The IDLH of acetylene is 10% of the LEL. This is consistent with guidance provided in NUREG/CR-6624 (NRC, 1999).

Table 2.2-4 {Aircraft Operations - Significance Factors}

Airport	Number of Operations	Distance from Site	Annual Operations Threshold (1)
SSES Helipad	Sporadic	1.4 mi (2.3 km)	Not calculated
Berwick Airport	None - Closed indefinitely	2.9 mi (4.7 km)	Not calculated
Berwick Hospital Heliport	Sporadic	3.7 mi (6.0 km)	Not calculated
Sutliff Private Airport	Sporadic	7.1 mi (11.4 km)	25,463
Double D Skyranch Airport	Sporadic	8.2 mi (13.2 km)	33,392
Baratta Heliport	Sporadic	9.3 mi (15.0 km)	43,460
Seesholtz Airport	Sporadic	10.4 mi (16.7 km)	107,309
Hazelton Municipal Airport	24,617 (2006) 34,837 (2025)	11.3 mi (18.2 km)	127,234
Bloomsburg Municipal Airport	12,350 (2006) 17,486 (2025)	15.4 mi (24.8 km)	237,881
Wilkes-Barre Wyoming Valley Airport	32,170 (2006) 45,625 (2025)	21.9 mi (35.2 km)	478,253
Northumberland County Airport	21,700 (2006) 30,773 (2025)	26.6 mi (42.8 km)	706,927
Schuylkill County/Joe Zerbey Airport	27,700 (2006) 31,873 (2025)	28.4 mi (45.7 km)	808,248
Jake Arner Memorial Airport	27,399 (2006) 32,640 (2025)	28.4 mi (45.7 km)	808,248
Wilkes-Barre/Scranton International Airport	211,480 (2006) 331,346 (2025)	28.8 mi (46.3 km)	828,001

Notes

(1) Per NUREG-0800, Section 3.5.1.6, if the plant-to-airport distance (D) is between 5 and 10 statute mi (8 and 16 km), then the annual operations threshold is calculated by 500×D2 or if the plant-to-airport distance (D) is greater than 10 statute mi (16 km), then the annual operations threshold is calculated by 1000×D2. If the airport is within 5 mi (8 km), then a detailed review of aircraft hazards must be performed. If the probability of aircraft hazards from airports within 5 mi (8 km) is acceptably low, then the design-basis acceptance criteria is met.

Table 2.2-5 {SSES Site and BBNPP Site Chemical Disposition}

(Page 1 of 2)

Material	Toxicity Limit	Flammability	Explosion Hazard?	Disposition
SSES				
Alcohol, Isopropyl	2,000 ppm	2.0%-12.7%	Bounded	Meets RG 1.78 Limit
Argon, Liquid	69,200 ppm	Not Flammable	No	Meets RG 1.78 Limit
Carbon Dioxide	40,000 ppm	Not Flammable	No	Meets RG 1.78 Limit
Diesel Fuel	Not toxic threat	0.7%-6%	Confined	Explosion Analysis
Freon R-114	7,000 mg/m^3	Not Flammable	No	Meets RG 1.78 Limit
Freon R-12	15,000 ppm	Not Flammable	No	Meets RG 1.78 Limit
Gasoline, Benzene	500 ppm	1.4%-7.6%	Vapor/ confined	Explosion Analyses
Halon 1301	40,000 ppm	Not Flammable	No	Meets RG 1.78 Limit
Hydrogen, Liquid	4,000 ppm	4%-75%	Vapor/ confined	Explosion Analyses
Nitrogen, Liquid	69,200 ppm	Not Flammable	No	Meets RG 1.78 Limit
Oxygen	683,700 ppm	Not Flammable	No	Meets RG 1.78 Limit
PCL-57 (1-hydroxyethlyidene-1,1-diphosphonic acid or HDEP)	500 mg/m^3	Not Applicable	No	Meets RG 1.78 Limit
Sodium Bisulfite Solution	100 ppm	Not Applicable	No	Meets RG 1.78 Limit
Sodium Hypochlorite, 12% (CWPH)	10 ppm	Not Applicable	No	Toxicity Analysis
Sulfur Hexafluoride, Compressed	1,000 ppm	Not Flammable	No	Meets RG 1.78 Limit
BBNPP				
Ammonium Hydroxide (28% solution)	300 ppm	16%-25%	Vapor/Confined	Flammability/Explosion/Toxicity Analysis
Diesel Fuel	Not Toxic (1)	0.7%-6%	Confined (2)	Explosion Analysis
Dimethylamine (2% solution)	500 ppm	2.8%-14.4%	Vapor/Confined (2)	Flammability/Explosion/Toxicity Analysis
Gasoline	500 ppm	1.4%-7.6%	Vapor/Confined (2)	Flammability/Explosion/Toxicity Analysis
Hydrazine (35% solution)	50 ppm	9.3%-83.4%	Confined (2)	Toxicity/Explosion Analysis
Hydrogen Tank	4,000 ppm	4%-75%	Vapor/Confined (2)	Flammability/Explosion/Toxicity Analysis
Liquid Nitrogen	69,200 ppm	Not Flammable	No	Toxicity/BLEVE Explosion Analysis
Sodium Hypochlorite	10 as Cl_2	Not Applicable	No	Toxicity Analysis
Argon	69,200 ppm	Not Flammable	No	Toxicity Analysis
Argon-Methane (considered Methane)	5,000 ppm	4.4%-16.5%	Vapor/Confined (2)	Flammability/Explosion/Toxicity Analysis
Hydrogen Cylinder	4,000 ppm	4%-75%	Vapor/Confined (2)	Flammability/Explosion/Toxicity Analysis
Nitrogen Gas	69,200 ppm	Not Flammable	No	Toxicity Analysis
Oxygen	683,700 ppm	Not Flammable	No	Toxicity Analysis

Table 2.2-5 {SSES Site and BBNPP Site Chemical Disposition}

(Page 2 of 2)

Material	Toxicity Limit	Flammability	Explosion Hazard?	Disposition
Deposit Control Agent BL5323	-	Not Flammable	No	Toxicity Analysis
Sodium Bisulfite	100 as SO_2	Not Flammable	No	Toxicity Analysis

Notes:

(1) Chemicals with vapor pressures less than 10 mmHg (0.0013 mpa) at 100°F (38°C) are not considered toxic or delayed vapor explosion hazards. The chemical will not enter the atmosphere fast enough to reach high enough concentrations to effect people or lead to delayed explosions.

(2) There are two types of explosion analyses: stationary confined explosions and delayed ignition vapor cloud explosions. The diesel and hydrazine is only analyzed for a stationary confined explosion, while hydrogen, dimethylamine, gasoline, and methane are analyzed for both types of explosions.

Table 2.2-6 {Hazardous Material, Nearby Facilities, Disposition}

(Page 1 of 2)

Material (amount at location)	Bounding Location (Distance (mi))	Toxicity Limit	Flammability / Explosive Limits	Explosion Hazard?	Disposition [1]
Acetylene (16,000 lbs (7,257 kg))	Western International (1.3 mi (18.2 km))	2,500 ppm	2.5%-100%	Analyze	Flammability/ Explosion Analyses/ Toxicity meets limit
Aluminum Chloride (55 gal (208 l))	Rad Woodwork (3.5 mi (5.6 km))	2 mg/m^3	Not Flammable	No	Meets RG 1.78 Limit
Argon (24,166 lbs (10,962 kg))	Cheetah Chassis (4.5 mi (7.2 km))	69,200 ppm	Not Flammable	No	Meets RG 1.78 Limit
Boiler Treatment (55 gal (208 l))	Rad Woodwork (3.5 mi (5.6 km))	210 mg/m^3	Not Applicable	No	Meets RG 1.78 Limit
Brake Clean (small amount)	Riverview Block Inc (1.6 mi (2.6 km))	210 mg/m^3	Not Flammable	No	Meets RG 1.78 Limit
Chlorine (100 lbs (45 kg)) (600 lbs (272 kg))	Delivery (1.1 mi (1.8 km))/ Shickshinny Sanitation (4.6 mi (7.4 km))	10 ppm	Not Flammable	No	Meets RG 1.78 Limit
Ferric Chloride (2,100 gal (7,949 l))	Wise Foods (5.1 mi (8.2 km))	210 mg/m^3	Not Flammable	No	Meets RG 1.78 Limit
Freon 12 (R 12, Dichlorodifluoro-methane) (<100,000,000 lbs (<4.5E7 kg))	Ed Spencer Auto Parts (2.7 mi (4.3 km))	15,000 ppm	Not Flammable	No	Meets RG 1.78 Limit
Gasoline (80,000 lbs (36,287 kg))	Postulated Truck (1.1 mi (1.8 km))	500 ppm	1.4%-7.6%	Analyze [2]	Flammability/ Explosion Analyses/ Toxicity meets limit
Hydrochloric Acid (6,519 lbs (2,957 kg))	CIBA (4.7 mi (7.6 km))	50 ppm	Not Flammable	No	Meets RG 1.78 Limit
Methyl Methacrylate (5,000 lbs (2,268 kg))	Castek (1.2 mi (1.9 km))	1,000 ppm	2.1%-12.5%	Bounded by Gasoline	Meets RG 1.78 Limit
Natural Gas (Methane) (540,000 lbs (244,940 kg))	Deluxe Building Systems (4.6 mi (7.4 km))	5,000 ppm	4.4%-16.5%	Analyze [2]	Flammability/ Explosion Analyses/ Toxicity meets limit
Nitric Acid (4,000 lbs (1,814 kg))	Wise Foods (5.1 mi (8.2 km))	25 ppm	Not Flammable	No	Meets RG 1.78 Limit
Nitrogen (50,000 lbs (72,680 kg))	Wise Foods (5.1 mi (8.2 km))	69,200 ppm	Not Flammable	No	Meets RG 1.78 Limit
Panel Adhesive (28,000 lbs (12,701))	Deluxe Building Systems (4.6 mi (7.4 km))	10 mg/m^3	Not Flammable	No	Meets RG 1.78 Limit
Pesticides/Herbicides (50 gal (189 l))	Nescopeck Agway (3.2 mi (5.1 km))	210 mg/m^3	Not Flammable	No	Meets RG 1.78 Limit
Propane (254,000 lbs (115,213 kg))	Heller's Gas & Fireplaces (1.9 mi (3.1 km))	2,100 ppm	2%-9.5%	Analyze [2]	Flammability/ Explosion Analyses/ Toxicity meets limit

Table 2.2-6 {Hazardous Material, Nearby Facilities, Disposition}

(Page 2 of 2)

Material (amount at location)	Bounding Location (Distance (mi))	Toxicity Limit	Flammability / Explosive Limits	Explosion Hazard?	Disposition [1]
R 14 (<96,000,000 lbs (<4.3E7 kg))	Ed Spencer Auto Parts (2.7 mi (4.3 km))	69,200 ppm	Not Flammable	No	Meets RG 1.78 Limit
Styrene (750,000 lbs (340,194 kg) of resin)	Consolidated Container Co (4.8 mi (7.7 km))	700 ppm	1.1%-6.1%	Non-Explosive in Resin form	Meets RG 1.78 Limit
Zinc Chloride (815 lbs (370 kg))	Patriot Metals (4.5 mi (7.2 km))	50 mg/m^3	Not Flammable	No	Meets RG 1.78 Limit

Notes:

(1) Chemicals with vapor pressures less than 10 mmHg (0.0013 mpa) at 100°F (38°C) are not considered toxic or delayed vapor explosion hazards. The chemical will not enter the atmosphere fast enough to reach high enough concentrations to effect people or lead to delayed explosions.

(2) There are two types of explosion analyses: stationary confined explosions and delayed ignition vapor cloud explosions. Diesel fuel is only analyzed for a stationary confined explosion, while gasoline and hydrogen are analyzed for both types of explosions.

Table 2.2-7 {Hazardous Material, Transported Chemicals, Disposition}

Material	Transportation Route	Toxicity Limit	Flammability/ Explosive Limits	Explosion Hazard?	Disposition (1)
Sodium Chlorate	Canadian Pacific Railway	(2)	(2)	(2)	Bounded
Napthalene, Molten	Canadian Pacific Railway	(2)	(2)	(2)	Bounded
Liquefied Petroleum Gases (Butane)	Canadian Pacific Railway	(2)	1.5%-9%	Analyze (3)	Explosion, Flammability Analyses/ Toxicity meets limit
Chlorosilanes	Canadian Pacific Railway	(2)	(2)	(2)	Bounded
Ammonia, Anhydrous	Canadian Pacific Railway	300 ppm	16%-25%	Analyze (3)	Explosion, Flammability Analyses/ Toxicity meets limit
Sodium Hydroxide	Canadian Pacific Railway	(2)	(2)	(2)	Bounded
Sulphur, Molten	Canadian Pacific Railway	(2)	(2)	(2)	Bounded
Phenol, Molten	Canadian Pacific Railway	(2)	(2)	(2)	Bounded
Gasoline, Benzene	Canadian Pacific Railway	(2)	(2)	(2)	Bounded
Potassium Hydroxide	Canadian Pacific Railway	(2)	(2)	(2)	Bounded
Acetone	Canadian Pacific Railway	(2)	(2)	(2)	Bounded
Ammonium Nitrate Fertilizer	Canadian Pacific Railway	(2)	(2)	(2)	Bounded
Terpene Hydrocarbons	Canadian Pacific Railway	(2)	(2)	(2)	Bounded
Methyldichlorosil ane	Canadian Pacific Railway	(2)	(2)	(2)	Bounded
Ethyl Acetate	Canadian Pacific Railway	(2)	(2)	(2)	Bounded
Gasoline	Truck on U.S. Route 11	500 STEL	1.4%-7.6%	Analyze (3)	Explosion, Flammability Analyses/ Toxicity meets limit
Chlorine	Truck on U.S. Route 11	10 ppm	Not Flammable	No	Meets Reg. Guide 1.78 Limit
Acetylene	Truck on U.S. Route 11	2,500 ppm	2.5%-100%	Analyze (3)	Explosion, Flammability Analyses/ Toxicity meets limit

Notes:

(1) Chemicals with vapor pressures less than 10 mmHg (0.0013 mpa) at 100°F (38°C) are not considered toxic or delayed vapor explosion hazards. The chemical will not enter the atmosphere fast enough to reach high enough concentrations to effect people or lead to delayed explosions.

(2) Ammonia is selected as the most toxic chemical that is transported by the Canadian Pacific Railway. All others are either less toxic or have a vapor pressure less than 10 mmHg (0.0013 mpa) at 100°F (38°C). Both ammonia and butane are selected as the bounding explosive chemicals. These are both gasses at standard conditions, and will therefore have a higher release rate and a higher concentration than the other explosive chemicals on the Canadian Pacific Railway.

(3) There are two types of explosion analyses: stationary confined explosions and delayed ignition vapor cloud explosions. Diesel fuel is only analyzed for a stationary confined explosion, while gasoline and hydrogen are analyzed for both types of explosions.

Table 2.2-8 {Explosion Event Analysis}

Source Location	Pollutant Evaluated	Quantity	Distance to a BBNPP Safety Related Building	Distance to 1 psid peak overpressure
SSES	Hydrogen	10,017 lbs (4,544 kg)	0.69 mi (1.11 km)	0.34 mi (0.55 km)
	Diesel	1,940,072 lbs (880002 kg)	0.85 mi (1.37 km)	0.42 mi (0.68 km)
	Oxygen BLEVE	85,500 lbs (38,782 kg)	0.69 mi (1.11 km)	0.10 mi (0.16 km)
	Nitrogen BLEVE	10,318 lbs (4,680 kg)	0.69 mi (1.11 km)	0.10 mi (0.16 km)
U.S. Route 11	Gasoline	80,000 lbs (36,287 kg)	0.95 mi (1.53 km)	0.72 mi (1.16 km)
	Acetylene	16,000 lbs (7,257 kg)	0.95 mi (1.53 km)	0.41 mi)(0.66 km)
Canadian Pacific Railway	Ammonia	196,234 lbs (89,010 kg)	1.45 mi (2.33 km)	1.00 mi (1.61 km)
	Butane	173,643 lbs (78,763 kg)	1.45 mi (2.33 km)	Bounded by above
Heller’s Gas & Fireplaces	Propane	254,000 lbs (115,213 kg)	1.68 mi (2.70 km)	1.07 mi (1.72 km)
Deluxe Building Systems	Natural Gas/ Methane	540,000 lbs (244,940 kg)	4.48 mi (7.21 km)	1.43 mi (2.30 km)
BBNPP	Diesel Fuel	125,000 gal (473,177 l)	(3)	1,626 ft (495 m) (1)
	Dimethylamine (2% solution)	58 lbs (26 kg)	(3)	290 ft (88 m) (4)
	Gasoline	4,000 gal (15,142 l)	(3)	412 ft (126 m) (1)
	Hydrazine (35% solution)	1,019 lbs (462 kg)	(3)	805 ft (245 m) (4)
	Hydrogen Tank	48.05 lbs (21.8 kg)	(3)	271 ft (83 m) (2)
	Argon-Methane (considered Methane)	11.8 lbs (5.4 kg)	(3)	164 ft (50 m) (2)
	Hydrogen Cylinder	1.45 lbs (0.7 kg)	(3)	78 ft (24 m) (2)
	Liquid Nitrogen	11,300 gal (42,775 l)	(3)	360 ft (110 m) (2)

Notes:

(1) For chemicals that are liquids under standard conditions, the storage vessel was assumed to contain 100% chemical vapor at atmospheric pressure.
(2) For compressed or liquefied gasses, the entire content of the storage vessel was conservatively assumed as the explosive mass.
(3) The storage distance for onsite chemicals will be selected such that each chemical is further from any safety related building than the standoff distance in this table.
(4) For some chemicals in an aqueous solution, the entire mass of the chemical in solution was used as the explosive mass.

Table 2.2-9 {Flammable Vapor Cloud Events (Delayed Ignition) Analysis}

Source Location	Pollutant Evaluated	Quantity	Distance to a BBNPP Safety Related Building	Distance to 1 psid Peak Overpressure	Maximum Explosive Concentration at BBNPP Buildings (2)
SSES	Hydrogen	10,017 lbs (4,544 kg)	0.69 mi (1.11 km)	(3)	1.49%
U.S. Route 11	Gasoline	80,000 lbs (36,287 kg)	0.95 mi (1.53 km)	0.40 mi (0.64 km)	-
	Acetylene	16,000 lbs (7,257 kg)	0.95 mi (1.53 km)	0.79 mi (1.27 km)	-
Canadian Pacific Railway	Ammonia	196,234 lbs (89,010 kg)	1.45 mi (2.33 km)	1.2 mi (1.93 km)	-
	Butane	173,643 lbs (78,763 kg)	1.45 mi (2.33 km)	1.2 mi (1.93 km)	-
Heller's Gas & Fireplaces	Propane	254,000 lbs (115,212 kg)	1.68 mi (2.70 km)	1.1 mi (1.77 km)	-
Deluxe Building Systems	Natural Gas/ Methane	540,000 lbs (244,940 kg)	4.48 mi (7.21 km)	2.9 mi (4.67 km)	-
Transco Pipeline	Natural Gas/ Methane	Pipeline/ Proprietary	1.74 mi (2.80 km)	(2)	1.76%
UGI Pipeline	Natural Gas/ Methane	Pipeline	0.35 mi (0.56 km)	(2)	1.32%
Sunoco Pipeline	Gasoline	Pipeline	1.78 mi (2.86 km)	379 yards (347 m)	-
BBNPP	Dimethylamine (2% solution)	58 lbs (26 kg)	(4)	291 ft (89 m)	-
	Gasoline	18,647 lbs (8,458 kg)	(4)	1,323 ft (403 m)	-
	Hydrogen Tank	48.05 lbs (21.8 kg)	(4)	990 ft (302 m)	-
	Argon-Methane (considered Methane)	11.8 lbs (5.4 kg)	(4)	258 ft (79 m)	-
	Hydrogen Cylinder	1.45 lbs (0.66 kg)	(4)	219 ft (67 m)	-

Notes:

(1) For compressed or liquefied gasses, the entire content of the storage vessel was conservatively assumed as the available explosive mass.
(2) The plume rises high enough such that the concentration of the chemical is below the LEL at all BBNPP structures. Therefore the concentration will be too low for a confined vapor cloud explosion to occur, and an unconfined vapor cloud explosion will not occur because there will be no ignition sources above BBNPP structures.
(3) For lighter than air gasses such as hydrogen and natural gas, if it could be shown that the chemical plume would rise high enough such that the concentration of the chemical at BBNPP will always be below the LEL, then it is assumed that a vapor cloud explosion can not occur. There would be no ignition source, and detonation of an unconfirmed vapor cloud will not occur.
(4) Onsite chemicals will always be further from any safety related building that the standoff distance in this table.

Table 2.2-10 {Toxic Vapor Cloud Analysis}

Source Location	Pollutant Evaluated	Quantity	Distance to the BBNPP MCR Air Intakes	Peak Concentration at the Air Intakes (ppm)	Peak MCR Concentration (ppm)
Susquehanna Steam Electricity Station Units 1 and 2 (SSES)	Sodium Hypochlorite	72,571 lbs (32,918 kg)	4,816 ft (1,468 m)	115	4.94
Canadian Pacific Railway	Ammonia	196,234 lbs (89,010 kg)	8,776 ft (2,675 m)	20,000	>300 [(1)]
Transco Pipeline	Natural Gas/ Methane	Pipeline/ Proprietary	9,779 ft (2,981 m)	>300,000	>5,000 [(1)]
UGI Pipeline	Natural Gas/ Methane	Pipeline	2,123 ft (647 m)	63,400	>5,000 [(1)]
Sunoco Pipeline	Gasoline	Pipeline	10,518 ft (3,206 m)	<100 [(2)]	<100 [(2)]
BBNPP	Ammonium Hydroxide (28% solution)	8,500 gal (32,176 l) of solution	>4,500 ft (1,372 m) [(3)]	71.4	10.6
	Dimethylamine (2% solution)	58 lbs (26 kg)	>33 ft (10 m) [(3)]	80,800	381
	Gasoline	18,647 lbs (8,458 kg)	>343 ft (105 m) [(3)]	82,000	500
	Hydrazine (35% solution)	1,019 lbs (462 kg)	>4,500 ft (1,372 m) [(3)]	1.96	0.327
	Hydrogen Tank	48.05 lbs (21.8 kg)	>173 ft (53 m) [(3)]	803,000	4,000
	Liquid Nitrogen	53,181 lbs (24,123 kg)	>375 ft (114 m) [(3)]	12,900,000 [(4)]	69,000
	Argon	28 lbs (12.7 kg)	>33 ft (10 m) [(3)]	<69,200	<69,200
	Argon-Methane (considered Methane)	11.8 lbs (5.4 kg)	>33 ft (10 m) [(3)]	669,000	3,300
	Hydrogen Cylinder	1.45 lbs (0.7 kg)	>33 ft (10 m) [(3)]	659,000	3,250
	Nitrogen Gas	17.1 lbs (7.8 kg)	>33 ft (10 m) [(3)]	557,000	2,740
	Oxygen	23.4 lbs (10.6 kg)	>33 ft (10 m) [(3)]	<683,700	<683,700
	Deposit Control Agent BL5323	1,000 gal (3,785 l) of solution	>343 ft (105 m) [(3)]	Section 2.2.3.1.3	Section 2.2.3.1.3
	Sodium Bisulfite	2,102 lbs (953 kg)	>479 ft (146 m) [(3)]	11,600	100

Notes:

(1) More than two minutes elapse between the time when the chemical concentration reaches the odor threshold and the IDLH. Therefore a trained MCR operator will have enough time to don a respirator, per Regulatory Guide 1.78 (NRC, 2001).
(2) The outdoor concentration is less than 100 ppm for gasoline following a break of the Sunoco Pipeline. Therefore, the concentration of gasoline inside the MCR will also always be less than 100 ppm.
(3) Each of the chemicals onsite at BBNPP will be stored at a distance further from the MCR air intakes than the distances in this table. These distances are the minimum allowable: the concentrations listed for each chemical is the maximum given this worst case distance.
(4) For the near field effects of large gas releases, ALOHA may report the concentration larger than 1,000,000 ppm.

Table 2.2-11 {Description of Pipelines}

Pipeline	Size	Fluid Carried	Age (years)	Maximum Allowable Operating Pressure	Depth of Burial	Isolation Valves	
						Location	Type [1]
Sunoco TAMA-King	6 in (15.2 cm)	Gasoline, Diesel Fuel, Heating Oil	77	1,100 psi (7.58 mpa)	2-3 ft (0.61-0.91 m)	a. St. John Road Station; b. Rucket Hill Road Station; c. Susquehanna River North Station; d. Luzerne Pump Station	Gate
Transco-Williams Line “B”?	24 in (61 cm)	Natural Gas	43	1,200 psi (8.27 mpa)	3-5 ft (0.91-1.5 m)	Approximately every 10-20 mi (16-32 km)	N/A
Transco-Williams Line “C”	36 in (91 cm)	Natural Gas	24	1,200 psi (8.27 mpa)	3-5 ft (0.91-1.5 m)	Approximately every 10-20 mi (16-32 km)	N/A
Transco-Williams Line “D”?	42 in (107 cm)	Natural Gas	1	1,200 psi (8.27 mpa)	3-5 ft (0.91-1.5 m)	Approximately every 10-20 mi (16-32 km)	N/A
UGI PNG	12 in (30.5 cm)	Natural Gas	27	318 psi (2.19 mpa)	3 ft (0.91 m)	At City Gate Station (U.S. Route 11 and Mingle Inn Road) and approximately 11,000 ft (3,353 m) from station.	Ball
UGI PNG	16 in (40.6 cm)	Natural Gas	12	310 psi (2.14 mpa)	3 ft (0.91 m)	At City Gate Station (U.S. Route 11 and Mingle Inn Road) and approximately 8,600 ft (2,621 m) from station.	Ball

Note:

(1) Williams Gas Pipeline - Transco declined to provide the type of isolation valve and cited "proprietary/security" reasons.

Table 2.2-12 {Description of Highways}

Highway	Closest Approach	Access Point
U.S. Route 11	Approximately 1.1 mi (1.8 km) south of the site.	Access to the site from U.S. Route 11 is via North Market Street, Confers Lane, and Beach Grove Road.
Pennsylvania State Route 93	Approximately 2.3 mi (3.7 km) to the southwest.	No direct access.
Pennsylvania State Route 239	Approximately 2.0 mi (3.2 km) to the southeast	No direct access.
Interstate Highway I-80	Approximately 4.7 mi (7.6 km) to the south.	No direct access.
Interstate Highway I-81	Approximately 8.4 mi (13.5 km) to the southeast.	No direct access.

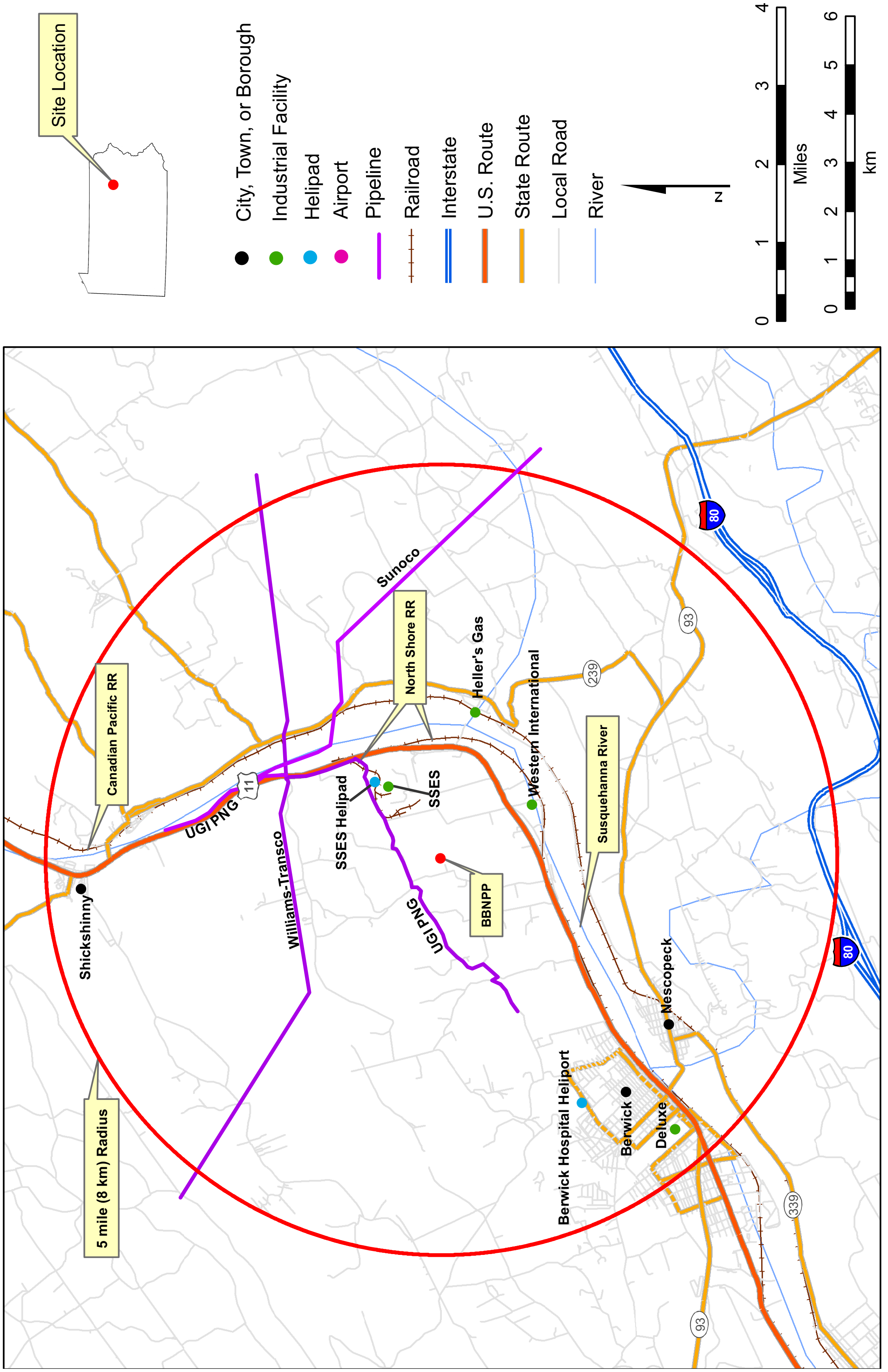


Figure 2.2-1 {Site Vicinity Map}

Figure 2.2-2 {Airports and Airway Routes within 10 mi (16 km) of the BBNPP Site}

2.3 METEOROLOGY

This section of the U.S. EPR FSAR is incorporated by reference with the following departures and/or supplements.

The U.S. EPR FSAR includes the following COL Item in Section 2.3.1:

> If a COL applicant that references the U.S. EPR design certification identifies site-specific meteorology values outside the range of the design parameters in Table 2.1-1, then the COL applicant will demonstrate the acceptability of the site-specific values in the appropriate sections of the Combined License application.

This COL Item is addressed as follows:

The {Bell Bend Nuclear Power Plant (BBNPP)} site-specific meteorology values have been reviewed and compared to determine if they are within the bounds of the assumed meteorology values for a U.S. EPR. This comparison is provided in Table 2.0-1. The {BBNPP} site-specific meteorology parameters are within the bounds of the conservative limiting meteorology values presented in Table 2.0-1.

2.3.1 REGIONAL CLIMATOLOGY

No departures or supplements.

2.3.1.1 Basis for Meteorological Parameters

The U.S. EPR FSAR includes the following COL Item in Section 2.3.1.1:

> A COL applicant that references the U.S. EPR design certification will provide site-specific characteristics for regional climatology.

This COL Item is addressed as follows:

{The BBNPP site is located in east-central Pennsylvania in the Susquehanna Valley. The site is in Luzerne County near the border with Columbia County, approximately 20 mi (32 km) west-southwest from Wilkes-Barre, Pennsylvania. Luzerne County is located in the Ridge and Valley Region (or Ridge and Valley Province), which lies northwest of the Piedmont and between the Blue Ridge and Allegheny Mountains. This is a region of forested ridges alternating with fertile and extensively farmed valleys. The Ridge and Valley Region is 80 to 100 mi (129 to 161 km) wide and characterized by parallel ridges and valleys oriented northeast-southwest. The mountain ridges vary from 1,300 to 1,600 ft (396 to 488 m) above sea level, with local relief from 600 to 700 ft (183 to 213 m).

The Ridge and Valley Region, while not having a true mountain climate, does have many of the characteristics of such a climate. The mountain/valley influence on air movements causes greater temperature extremes than found in southeastern Pennsylvania, and the daily range of temperature increases under the valley influences.

The effects of radiational cooling at night in the valleys and the tendency for cool air masses to flow down them at night result in a shortening of the growing season by causing freezes later in the spring and earlier in the fall than would otherwise occur. The growing (freeze-free) season in this region is longest in the middle Susquehanna Valley, where it averages about 165 days, and shortest in Schuylkill and Carbon Counties, averaging less than 130 days.

The annual precipitation in this area averages 3 to 4 in (76 to 102 mm) more than in the southeastern part of the state, but the geographic distribution is less uniform. The mountain ridges are high enough to have some deflecting influence on general storm winds, while summer showers and thunderstorms tend to follow along the valleys. Seasonal snowfall of the Ridge and Valley Region varies considerably within short distances. It is greatest in Somerset County, averaging 88 in (2,235 mm) in the vicinity of Somerset, and least in Huntingdon, Mifflin, and Juniata Counties, averaging about 37 in (940 mm).

The BBNPP site and the Wilkes-Barre/Scranton observation site are located in climate division PA-01 (Pocono Mountains), as designated by the U.S. National Climatic Data Center. A climate division represents a region within a state that is as climatically homogeneous as possible. The long term (1931-2000) annual average precipitation in the PA-01 climate division is 43.94 in (1,116 mm) (NCDC, 2002a). The long term (1931-2000) annual average temperature in the PA-01 climate division is 46.8°F (8.2°C). The long term (1931-2000) average monthly temperatures for January and July in the PA-01 climate division are 24.0°F (-4.4°C) and 69.2°F (20.7°C), respectively (NCDC, 2002b).}

2.3.1.2 Meteorological Data for Evaluating the Ultimate Heat Sink

The U.S. EPR FSAR includes the following COL Item in Section 2.3.1.2:

> A COL applicant that references the U.S. EPR design certification will describe the means for providing UHS makeup sufficient to meet the maximum evaporative and drift water loss after 72 hours through the remainder of the 30 day period consistent with RG 1.27.

This COL item is addressed in Section 2.3.1.2.2.13.

Section 2.3.1.2.1 and 2.3.1.2.2 are added as a supplement to the U.S. EPR FSAR.

2.3.1.2.1 Regional Air Quality

Background

The Clean Air Act (PL, 1977) which was last amended in 1990, requires the U.S. Environmental Protection Agency (EPA) to set National Ambient Air Quality Standards (CFR, 2007a) for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national air quality standards. Primary standards set limits to protect public health, including the health of "sensitive" populations such as asthmatics, children, and the elderly. Secondary standards set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards for six principal pollutants, which are called "criteria" pollutants. Units of measure for the standards are parts per million (ppm) by volume, milligrams per cubic meter of air (mg/m^3), and micrograms per cubic meter of air (µg/m^3). Areas are either in attainment of the air quality standards or in nonattainment. Attainment means that the air quality is better than the standard.

{**Luzerne County**

Based on EPA data (USEPA, 2008), Luzerne County, Pennsylvania, is in attainment for all the National Ambient Air Quality Standards (NAAQS). The NAAQS are presented in Table 2.3-1. Based on Pennsylvania Department of Environmental Protection data, the BBNPP site 1030 was in attainment in 2004 for sulfur dioxide, particulate matter (2.5 microns), carbon monoxide, and ozone (PADEP, 2008).

Luzerne County is part of the Northeast Pennsylvania-Upper Delaware Valley Interstate Air Quality Control Region (AQCR) (CFR, 2008a). The attainment status of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR with regard to national ambient air quality standards is listed as being better than national standards for sulphur dioxide, ozone (8-hr), and total suspended particulates; unclassifiable/attainment for carbon monoxide, nitrogen dioxide, and particulate matter (2.5 microns); unclassifiable for particulate matter (10 microns); nonattainment/marginal for ozone (1-hr); and not designated for lead (CFR, 2008b). Note that the 1-hour ozone standard was revoked effective June 15, 2005, for all areas in Pennsylvania.

Columbia County

Based on EPA data (USEPA, 2008), Columbia County, Pennsylvania, is in attainment for all the National Ambient Air Quality Standards (NAAQS). The NAAQS are presented in Table 2.3-1.

Columbia County is part of the Central Pennsylvania Intrastate Air Quality Control Region (AQCR) (CFR, 2008c). The attainment status of the Central Pennsylvania Intrastate AQCR with regard to national ambient air quality standards is listed as being better than national standards for sulphur dioxide, nitrogen dioxide, and total suspended particulates; unclassifiable/attainment for carbon monoxide, particulate matter (2.5 and 10 microns), and ozone (8-hr); and nonattainment/marginal for ozone (1-hr) (CFR, 2008b). Note that the 1-hour ozone standard was revoked effective June 15, 2005, for all areas in Pennsylvania.}

Class 1 Federal Lands

Class 1 federal lands include areas such as national parks, national wilderness areas, and national monuments. These areas are granted special air quality protections under Section 162(a) of the federal Clean Air Act. 40 CFR Section 51.307 requires the operator of any new major stationary source or major modification located within 62 mi (100 km) of a Class I area to contact the Federal Land Managers for that area.

{The closest Class 1 Federal Land to BBNPP is the Brigantine Wilderness Area, New Jersey, which was established in 1939. In 1984 Brigantine was combined with Barnegat and renamed the Edwin B. Forsythe Refuge. The distance from Bell Bend Nuclear Power Plant to the Brigantine Wilderness Area is approximately 150 mi (242 km); therefore, no action is required}

2.3.1.2.2 Severe Weather Phenomena

2.3.1.2.2.1 {Tornadoes and Waterspouts

Tornadoes occur infrequently in Pennsylvania compared with areas such as the Great Plains, as can be seen in Figure 2.3-1 and Figure 2.3-2. Pennsylvania averaged ten tornadoes a year during the period from 1950-1995. Pennsylvania averaged three strong tornadoes a year during the period from 1950-1995. Figure 2.3-1 and Figure 2.3-2 (NCDC, 2000) show the annual average number of tornadoes and strong-violent tornadoes (F2-F5) respectively. No waterspouts were reported in Luzerne or Columbia County between January 1, 1950, and February 28, 2008.

In the period from January 1, 1950, through August 31, 2007, 15 tornadoes were reported in Luzerne County, Pennsylvania as presented in Table 2.3-2. This corresponds to an annual average of about 0.3 tornadoes per year. The magnitude of the tornados ranged from F0 to F2, as designated by the National Weather Service. An F0 tornado has estimated wind speeds less than 73 mph (33 m/sec). An F1 tornado has estimated wind speeds between 73 and 112 mph (33 and 50 m/sec). An F2 tornado has estimated wind speeds between 113 and 157 mph (50 and 70 m/sec). The width of the paths of the 15 tornados in Luzerne County were estimated to range from 13 to 530 yards (12 to 485 m).

In the period from January 1, 1950, through August 31, 2007, eight tornadoes were reported in Columbia County, Pennsylvania as presented in Table 2.3-3. This corresponds to an annual average of about 0.14 tornadoes per year. The magnitude of the tornados ranged from F0 to F2, as designated by the National Weather Service. The width of the paths of the 15 tornadoes in Columbia Count were estimated to range from 10 to 75 yards (9 to 69 m).

Table 5-1 of NUREG/CR-4461, Revision 2, (NRC, 2007a) presents tornado strike probabilities for the contiguous United States and for the West, Central, and East regions of the country. The listed tornado strike probability for the East region, in which BBNPP is located, is 2.58×10^{-5}. This value takes into account finite building dimensions and the variation of tornado intensity along and across the tornado path.

2.3.1.2.2.2 Hurricanes and Tropical Storms

National Hurricane Center statistics (NOAA, 2008b) list 52 tropical storms and hurricanes that have passed within 100 statute miles (161 km) of BBNPP. Note that the Saffir-Simpson Hurricane Scale ranks hurricanes on a scale of 1-5 based on the intensity of the storm. (NOAA, 2008c) In the eastern United States, hurricane season begins June 1st and ends November 30th.

Table 2.3-4 presents the year, month, day of occurrence of these 52 storms as well as information, if available, on wind speed and atmospheric pressure. Of these storms there were two category 1 hurricanes that occurred in the month of October. In addition to the two hurricanes and 21 tropical storms, there were 11 tropical depressions, and 18 extratropical storms that passed within 100 mi (161 km) of BBNPP. The tropical storms occurred in August and September.

The remnants of Hurricane Agnes dropped approximately 18 inches (457 mm) of rain in Luzerne County in June 1972. The resultant flooding destroyed nearly 25,000 homes and caused approximately one billion dollars in damage.

Table 2.3-5 shows the total and average number of tropical storms and hurricanes, by month, for the period 1851-2004 (NOAA, 2005). Note that most tropical storms and hurricanes occur in September.

2.3.1.2.2.3 Thunderstorms

From information provided by the Oklahoma Climatological Survey and presented in Figure 2.3-3, there are approximately 30 to 50 days per year during which thunderstorms occur in the vicinity of the BBNPP site. They occur in all months of the year, but the majority (75 to 80 percent) occur in May through August. They occur less than once per month from November to February. Thunderstorms are most likely to occur during the afternoon and evening hours. Table 2.3-6 presents the monthly mean number of days on which thunderstorms occurred at Wilkes-Barre/Scranton, Allentown, and Williamsport, Pennsylvania, during the period from 1950-2006 (Wilkes-Barre/Scranton), 1947-2006 (Allentown), and 1953 through 2006 (Williamsport) (NCDC, 2006a) (NCDC, 2006b) (NCDC, 2006c). The information is from certified data from the National Climatic Data Center for Wilkes-Barre/Scranton, Allentown, and Williamsport, which are the three National Weather Service primary stations closest to BBNPP. Most thunderstorms in the region occur during May through August, with about 30 thunderstorms occurring per year.

2.3.1.2.2.4 Lightning

J. L. Marshall (Marshall, 1973) presented a methodology for estimating lightning strike frequencies which includes consideration of the attractive area of structures. The method consists of determining the number of lightning flashes to earth per year per square kilometer and then defining an area over which the structure can be expected to attract a lightning strike. There are four flashes to earth per year per square kilometer in the vicinity of the proposed BBNPP. Lightning flash density for the U.S. for the five-year period 1996-2000, is shown in Figure 2.3-4 (NOAA, 2007). Marshall defines the total attractive area, A, of a structure with length L, width W, and height H, for lightning flashes with a current magnitude of 50 percent of all lightning flashes as:

$$A = LW + 4H (L + W) + 12.57 H^2 \qquad \text{Eq. 2.3-1}$$

The following building dimensions were used to estimate conservatively the attractive area of BBNPP (these values are much larger than the dimensions for the tallest building which measure approximately 58m X 58m X 60m; they are also larger than the approximate dimensions of the combined containment, the four safeguards buildings, the access building, the fuel building, and the nuclear auxiliary building):

$$L = 215 \text{ m}, W = 140\text{m}, H = 40\text{m} \qquad \text{Eq. 2.3-2}$$

The total attractive area is therefore equal to 0.11 square kilometers. Consequently, the lightning strike frequency computed using Marshall's (Marshall, 1973) methodology for BBNPP is 0.44 flashes per year.

2.3.1.2.2.5 Droughts

Five drought events were listed in the National Climatic Data Center's Storm Events database for Luzerne County, Pennsylvania, from 1950-2008 (see Table 2.3-7). The following description of the latest drought event (09/01/1999) is from “Drought/Ice/Snow Events for Luzerne and Columbia Counties, PA," July 2008 (NOAA, 2008d):

> A very dry spring and summer caused major crop failures and some wells to run dry. Many streams and rivers were also brought to their lowest recorded levels. The crops most affected were corn and hay, which dealt a major blow to dairy farmers. September rains from the remnants of Hurricanes Dennis and Floyd helped to ease the summertime drought conditions although they came too late to help the vegetable and grain crops. Approximately 20 million dollars in crop damage occurred.

Eight drought events were listed in the National Climatic Data Center's Storm Events database for Columbia County, Pennsylvania, from 1950-2008 (see Table 2.3-8). The following description of the latest drought event (08/01/1999) is from “Drought/Ice/Snow Events for Luzerne and Columbia Counties, PA," July 2008 (NOAA, 2008d):

> A drought emergency remained in effect for 55 of the 67 counties of Pennsylvania. In spite of the severe flash flooding in a few locations and normal or above normal precipitation in many others, water tables remained low and water usage was restricted.

2.3.1.2.2.6 High Winds

Table 2.3-9 presents occurrences of winds greater than 50 knots (58 mph or 26 m/sec) by storm type for Luzerne County. This data was retrieved from the National Climatic Data Center’s Storm Events database (NOAA, 2008d). There were 52 events that occurred during the period from June 6, 1971, through August 25, 2007. Wind speeds ranged from 50 to 175 knots (58 to 201 mph; 26 to 90 m/sec). The highest value occurred on May 31, 1998, during a thunderstorm event.

There were four storm events where the wind speed was at least 75 mph (34 mps) and less than 124 mph (55 mps). This data was retrieved from the National Climatic Data Center’s Storm Events database (NOAA, 2008d). These events occurred June 6, 1971, May 27, 2001, June 9, 2005, and December 1, 2006, and are listed in Table 2.3-10.

Table 2.3-11 presents occurrences of winds of 50 knots or greater (58 mph or 26 m/sec) by storm type for Columbia County. There were 56 events that occurred during the period from April 17, 1982 through August 25, 2007. Wind speeds ranged from 50 to 75 knots (58 to 86 mph; 26 to 39 m/sec). The highest value occurred on July 13, 2005.

There were two storm events in Columbia County where the wind speed was at least 75 mph (34 mps) and less than 124 mph (55 mps). These events occurred on November 13, 2003, and July 13, 2005 and are listed in Table 2.3-12.

2.3.1.2.2.7 Hail

Table 2.3-13 presents occurrences of hail events reported in Luzerne County. This data was retrieved from the National Climatic Data Center’s Storm Events database (NOAA, 2008d). There were 45 events that occurred between June 1958 and August 2007. Hail stone diameters ranged from 0.75 to 2.75 in (19.1 to 69.9 mm). The largest values occurred on June 24, 1985.

Table 2.3-14 presents occurrences of hail events reported in Columbia County. This data was retrieved from the National Climatic Data Center’s Storm Events database (NOAA, 2008d). There were 28 events that occurred between July 1980 and August 2007. Hail stone diameters ranged from 0.75 to 2.75 in (19.1 to 69.9 mm). The largest values occurred on, July 19, 1983.

2.3.1.2.2.8 Dust/Sand Storms

No dust or sand storms are listed during the period from January 1950 to February 2008 in the National Climatic Data Center's Storm Events database for Luzerne or Columbia County, Pennsylvania.

2.3.1.2.2.9 Ice Storms

Table 2.3-15 presents ice storm events which occurred in Luzerne County, Pennsylvania. This data was retrieved from the National Climatic Data Center's Storm Events database (NOAA, 2008d). There were 13 events that occurred between January 1999 and April 2007. Up to 0.5 in (12.7 mm) of ice accumulated during the December 13, 2000 event. For many of the ice events, the ice thickness was not recorded.

Table 2.3-16 presents ice storm events which occurred in Columbia County, Pennsylvania. This data was retrieved from the National Climatic Data Center's Storm Events database (NOAA, 2008d). There were 28 events that occurred between November 1994 and February 2007. Up to 0.25 in (6.35 mm) of ice accumulated during the December 13, 2000, December 11, 2002 and December 16, 2005 events. For many of the ice events, the ice thickness was not recorded.

2.3.1.2.2.10 Snow Storms

Table 2.3-17 presents snow storm events which occurred in Luzerne County, Pennsylvania. This data was retrieved from the National Climatic Data Center's Storm Events database (NOAA, 2008d). There were 44 events that occurred between February 1995 and April 2007. During the period, the Wilkes-Barre/Scranton Airport in Avoca, Pennsylvania, recorded the largest snowfall of up to 30 in (762 mm) during the March 31, 1997 event.

Table 2.3-18 presents snow storm events which occurred in Columbia County, Pennsylvania. This data was retrieved from the National Climatic Data Center's Storm Events database (NOAA, 2008d). There were 40 snow events that occurred between January 1995 and March 2007 disregarding ice events. Snow up to 18 in (457 mm) fell during the December 25, 2002.

2.3.1.2.2.11 High Air Pollution Potential

Major air pollution episodes are usually related to the presence of stagnating anticyclones. Such anticyclones may linger over an area four days or more. During such a period, surface wind speeds can fall to very low values. The near surface circulation is therefore insufficient to disperse accumulated pollutants. The analysis of these air stagnation events determined that approximately 10 air stagnation days occur per year, on average for 1948-1998, in the vicinity of BBNPP (NOAA, 1999). By contrast, the maximum number of air stagnation days (over the same period), averaged about 80 per year, near the border of California, Arizona, and Mexico. Most air stagnation events happen in an extended summer season from May to October as a result of weaker pressure and temperature gradients and the concommitant weaker wind circulations.

Holzworth (EPA, 1972), from a study which derived climatological statistics on morning and afternoon mixing heights and associated vertically averaged wind speeds, indicates that the mean annual morning mixing height depth over BBNPP is approximately 650 m (2,133 ft) and that the mean afternoon mixing height depth over BBNPP is approximately 1,500 m (4,921 ft). The mean annual wind speed through the morning mixing layer was found to be 5.5 m/sec (12.3 mph) and the mean annual wind speed through the afternoon mixing layer was found to be 7.5 m/sec (16.7 mph).

2.3.1.2.2.12 Snow/Ice Load on Roofs of Safety Related Structures

The 1975 NRC Branch Position for Winter Precipitation Loads establishes an acceptable method to develop a winter precipitation load for the design of nuclear power plants. The prescribed loads to be included in the combination of normal live loads are based on the weight of the 100-

year snow pack or snowfall, whichever is greater, recorded at ground level. Winter precipitation loads to be included in the combination of extreme live loads is based on the addition of the weight of the 100-year snow pack at ground level plus the weight of the 48-hour Probable Maximum Winter Precipitation (PMWP) at ground level for the month corresponding to the selected snow pack. Snow pack and snowfall are adjusted for density differences and ground level values are adjusted to represent appropriate weights on roofs. Values are expressed in the units used in the methodology.

As indicated in the 1975 NRC Branch Position for Winter Precipitation Loads, it is acceptable to determine the 100-year snow pack and snowfall utilizing information in American National Standards Institute (ANSI) A58.1 with an adjustment of 30 years or more of regional data and maximization of water content for snow depth. Based on more recent ANSI information issued 33 years since ANSI A58.1, the 50-year mean recurrence ground snow load in the BBNPP region is 35 pounds per square foot (psf). The ANSI importance factor described in American Society of Civil Engineers, ASCE/SEI.7-05, can be used to adjust the 50-year recurrence ground snow load to a 100-year recurrence (ASCE, 2006). Using an importance factor of 1.2, the 100-year mean recurrence ground snow load is 42 psf.

The 48-hour PMWP can be determined from Hydrometeorological Report (HMR) Number 53 by plotting (using a smooth curve) the probable maximum 6-hour, 24-hour, and 72-hour precipitation during the winter months of December through February. The 6-hour, 24-hour, and 72-hour PMWP values are provided in Table 2.3-19. The 10-square mile (mi^2), 48-hour PMWP is selected for the site from the plot using the December data since it is more conservative. Using the plot in Figure 2.3-5, the 48-hour PMWP value is approximately 17.2 inches.

The average total precipitation for December is 2.41 inches (61.21 mm) in the vicinity of BBNPP which is the month in which the PMWP would occur. Considering that the that hourly temperature values measured in the vicinity of BBNPP during the five-year period from 2001-2005 were above 32°F about 82% of the time, most of this PMWP would occur as rain. To define the overall ground snow load, it was assumed conservatively that 50 percent of the PMWP combines with the 100-year mean recurrence ground snow load of 42 psf. Therefore, the PMWP component is (where 62.4 psf is the density of water):

PMWP Load = ((17.2 inches)(62.4 psf)/(12 inches))(0.5) = 45 psf

Combining with the 100-year mean recurrence ground snow load yields an overall design ground snow load of 87 psf for use in the design of roofs. This site-specific overall design ground snow load is bounded by the U.S. EPR design value.

2.3.1.2.2.13 Conditions for Maximum Evaporation and Potential Water Freezing in the Ultimate Heat Sink

In accordance with Regulatory Guide 1.27 Section C.1 (NRC, 1976), the meteorological conditions resulting in maximum evaporation and drift loss should be the worst 30-day average combination of controlling parameters (wet bulb and dry bulb temperatures). Monthly design wet bulb and mean coincident dry bulb temperature values were determined by the American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) using 30 years (1972-2001) of meteorological data from Wilkes-Barre/Scranton, Pennsylvania (ASHRAE, 2005). The highest monthly design wet bulb and mean coincident dry bulb temperature values reported were for the month of July. The 0.4% design values (the values that would be exceeded 0.4% of the time in the month of July or roughly 3 hours out of 744) are 77.4°F (25.2°C) and 87.6°F (30.9°C) for the wet and coincident dry bulb temperature values, respectively. The 1% design values are 76.2°F (24.6°C) and 85.8°F (29.9°C) for the wet and coincident dry bulb temperature values, respectively. The 2% design values are 75.1°F (23.9°C) and 84.1°F (28.9°C) for the wet and coincident dry bulb temperature values, respectively.

The National Climatic Data Center identifies both the BBNPP site and Wilkes-Barre/Scranton as being within the same climate division. A climate division represents a region within a state that is as climatically homogeneous as possible. As such, it is deemed acceptable to use Wilkes-Barre/ Scranton high temperature statistics to characterize the BBNPP site.

Another meteorological condition to consider is the maximum one-hour dry bulb temperature. The maximum one-hour dry bulb temperature determined for Wilkes-Barre/Scranton over the period 1950-2000 is 101°F (38.3°C). The maximum one-hour dry bulb temperature determined for Berwick, PA, over the period 1944-1978 is 103°F (39.4°C). While the Berwick data are not as recent as the Wilkes-Barre/Scranton data, the maximum hourly temperature for Berwick is provided since Berwick is approximately 4 miles (6.4 km) from the BBNPP site, while the Wilkes-Barre/Scranton International Airport in Avoca, PA, is located approximately 40 miles from the BBNPP site.

The meteorological conditions resulting in minimum cooling due to evaporation of water should be periods of high wet bulb temperature values. Using 30 years (1972-2001) of meteorological data from Wilkes-Barre/Scranton, Pennsylvania, the annual average wet bulb temperature that is exceeded only 0.4% of the time per year is 74.6°F (23.7°C) (ASHRAE, 2005). The annual average wet bulb temperature that is exceeded only 1% of the time per year is 73.0°F (22.8°C). The annual average wet bulb temperature that is exceeded only 2% of the time per year is 71.5°F (21.9°C).

The meteorological conditions resulting in the potential for water freezing in the ultimate heat sink water storage facility should be low dry bulb temperature values and associated wind speeds. Using 30 years (1972-2001) of meteorological data from Wilkes-Barre/Scranton, Pennsylvania, the coldest month wind speed and coincident dry bulb temperature that are exceeded only 0.4% of the time per year are 24.9 mph (11.2 mps) and 32.5°F (0.3°C). The coldest month wind speed and coincident dry bulb temperature that are exceeded only 1% of the time per year are 22.6 mph (10.1 mps) and 27.9°F (-2.3°C).

According to information from ASHRAE (ASHRAE, 2005), the 100-year return period values of maximum and minimum dry bulb temperature are 101.4°F (38.6°C) and -23.7°F (-30.9°C), respectively. The 100-year return period value of maximum wet bulb temperature coincident with the 100-year return period value of maximum dry bulb temperature is 80.6°F (27.0°C). The 100-year return period value of maximum wet bulb temperature (non-coincident) is 91.5°F (33.1°C).

2.3.1.2.2.14 Tornado Parameters

Using the methodology and values in Table 1 from Regulatory Guide 1.76 (NRC, 2007b), the design-basis tornado characteristics for BBNPP are presented in Table 2.3-20. The maximum tornado wind speed is 230 mph (103 mps), the pressure drop is 1.2 psi (83 mb), and the rate of pressure drop is 0.5 psi/s (37 mb/s).

2.3.1.2.2.15 100 Year Return Period 3 Second Wind Gust

In accordance with ASCE 7-05 (ASCE, 2006), the basic wind speed to be used in determination of design wind loads on buildings and other structures is given in Figure 6-1 of that document. This value for the BBNPP site is 90 mph (40 mps). Note that this value is the three-second wind gust for a 50-year return period. Using the appropriate conversion factor from Table C6-7 of ASCE 7-05, the 100-year return period three-second wind gust value is 90 mph X 1.07 = 96.3 mph (43.0 mps). Note, the conversion factor of 1.07 is not the importance factor; the importance factor is 1.15.}

2.3.1.2.2.16 Temperature and Humidity for Heating, Ventilation and Air Conditioning

Table 2.3-21 through Table 2.3-27 present temperature and humidity data for Wilkes-Barre/ Scranton, Pennsylvania (ASHRAE, 2005) (NOAA, 2008a). These data are to be used in the design of plant heating, ventilating, and air conditioning systems. The National Climatic Data Center indentifies both the BBNPP site and the NWS station at Wilkes-Barre/Scranton as being within the same climate division (NCDC, 2002). A climate division represents a region within a state that is as climatically homogeneous as possible. As such, it is acceptable to use Wilkes-Barre/Scranton climatic statistics to characterize the BBNPP site. Values are expressed in the units provided by ASHRAE.

The 0% exceedance dry bulb temperature value (100°F or 37.8°C) and the coincident wet bulb temperature value (71.7°F or 21.2°C), and the zero percent exceedance non-coincident wet bulb temperature (78.9°F or 26.1°C) value are presented in Table 2.3-22. The minimum 0% exceedance dry bulb temperature value (-15.1°F or -26.2°C) is presented in Table 2.3-22. These values were determined using 30 years (1971-2000) of hourly meteorological data from the Wilkes-Barre/Scranton NWS site.(NOAA, 2008a)

The highest 1% monthly design dry bulb and mean coincident wet bulb temperatures presented in Table 2.3-25 (ASHRAE, 2005) are the 1% exceedance dry bulb temperature value (90.5°F or 32.5°C) and the coincident wet bulb temperature value (73.1°F or 22.8°C). the highest 1% monthly design wet bulb temperature presented in Table 2.3-26 (ASHRAE, 2005) is the 1% exceedance non-coincident wet bulb temperature value (76.2°F or 24.6°C). The 1% temperature value listed under coldest month wind speed/mean coincident dry bulb temperature (WS/MCDB) presented in Table 2.3-21 is the minimum 1% exceedance dry bulb temperature value (27.9°F or -2.3°C).

The site-specific 1% exceedance dry bulb and wet bulb temperature values presented in Table 2.3-25 and Table 2.3-26 are bounded by the values presented in Table 2.1-1 of the U.S. EPR Final Safety Analysis Report. The site-specific 0% exceedance dry bulb and wet bulb temperature values presented in Table 2.3-22 are bounded by the values presented in Table 2.1-1 of the U.S. EPR Final Safety Analysis Report.

2.3.1.2.3 References

ASCE, 2006. American Society of Civil Engineers, ASCE/SEI 7-05, “Minimum Design Loads for Buildings and Other Structures,” 2006.

ASHRAE, 2005. American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc., Weather Data Viewer version 3.0, 2005.

CFR, 2008a. U.S. Code of Federal Regulations, Title 40 – Protection of Environment, Chapter I – Environmental Protection Agency, Part 81 – Designation of Areas for Air Quality Planning Purposes, Subpart B – Designation of Air Quality Control Regions, Section 81.55 – Northeast Pennsylvania-Upper Delaware Valley Interstate Air Quality Control Region (40CFR81.55), June 9, 2008.

CFR, 2008b. U.S. Code of Federal Regulations, Title 40 – Protection of Environment, Chapter I – Environmental Protection Agency, Part 81 – Designation of Areas for Air Quality Planning Purposes, Subpart C – Section 107 Attainment Status Designations, Section 81.339 – Pennsylvania, June 9, 2008.

CFR, 2008c. U.S. Code of Federal Regulations, Title 40 – Protection of Environment, Chapter I – Environmental Protection Agency, Part 81 – Designation of Areas for Air Quality Planning Purposes, Subpart B – Designation of Air Quality Control Regions, Section 81.104 – Central Pennsylvania Interstate Air Quality Control Region (40CFR81.104), June 9, 2008.

Marshall, 1973. J. L. Marshall, Lightning Protection, John Wiley & Sons, New York, NY, 1973.

NCDC, 2000. U.S. Department of Commerce, NOAA/NESDIS, National Climatic Data Center, Technical Report 99-02, “1998-1999 Tornadoes and a Long-term U.S. Tornado Climatology”, August 2000.

NCDC, 2002a. U.S. National Climatic Data Center, Climatography of the United States No. 85, Divisional Normals and Standard Deviations of Temperature, Precipitation, and Heating and Coolilng Degree Days 1971-2000 (and previous normal periods), Section 2: Precipitation, 2002.

NCDC, 2002b. U.S. National Climatic Data Center, Climatography of the United States No. 85, Divisional Normals and Standard Deviations of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000 (and previous normals periods), Section 1: Temperature, 2002.

NCDC, 2006a. U.S. Department of Commerce, NOAA/NESDIS, National Climatic Data Center, Local Climatological Data, 2006 Annual Summary with Comparative Data, Wilkes-Barre/ Scranton Pennsylvania (KAVP).

NCDC, 2006b. U.S. Department of Commerce, NOAA/NESDIS, National Climatic Data Center, Local Climatological Data, 2006 Annual Summary with Comparative Data, Allentown Pennsylvania (KABE).

NCDC, 2006c. U.S. Department of Commerce, NOAA/NESDIS, National Climatic Data Center, Local Climatological Data, 2006 Annual Summary with Comparative Data, Williamsport Pennsylvania (KIPT).

NOAA, 1999. Air Resources Laboratory, National Oceanic and Atmospheric Adminstration, U.S. Department of Commerce, “Air Stagnation Climatology for the United States (1948-1998),” April 1999

NOAA, 2005. National Oceanic and Atmospheric Administration Technical Memorandum NWS TPC-4, “The Deadliest, Costliest, and Most Intense United States Tropical Cyclones From 1851-2004 (And other Frequently Requested Hurricane Facts)”, updated August 2005.

NOAA, 2007. Lightning Flash Density Map of the United States, National Oceanic and Atmospheric Administration, Website: http://www.crh.noaa.gov/Image/pub/ltg2/usa_ltg_fdm.gif, Date accessed: March 13, 2007.

NOAA, 2008a. U.S. Department of Commerce, National Oceanic and Amospheric Administration, National Environmental Satellite, Data, and Information Service, National Climatic Data Center, Solar and Meteorological Surface Observation Network, Eastern United States (1961-1990 data period), purchased January 2008.

NOAA, 2008b. National Oceanic and Atmospheric Administration, Coastal Services Center, Historical Hurricane Tracks, Website: http://maps.csc.noaa.gov/hurricanes/viewer.html, Date accessed: January 22, 2008.

NOAA, 2008c. National Oceanic and Atmospheric Administration, National Weather Service, National Hurricane Center, The Saffir-Simpson Hurrican Scale, Website: http://www.nhc.noaa.gov/aboutsshs.shtml, Date accessed: January 2008.

NOAA, 2008d. Storm Events for Pennsylvania, U.S. Department of Commerce, NOAA/NESDIS, National Climatic Data Center, Website: http://www4.ncdc.noaa.gov/cgi-win/wwcgi.dll?wwevent~storms, Date accessed: January 2008.

NRC, 1976. U.S. Nuclear Regulatory Commission Regulatory Guide 1.27, Revision 2, “Ultimate Heat Sink for Nuclear Power Plants,” January 1976.

NRC, 2007a. NUREG/CR-4461, Revision 2, “Tornado Climatology of the Contiguous United States,” February 2007.

NRC, 2007b. U.S. Nuclear Regulatory Commission Regulatory Guide 1.76, Revision 1, “Design-Basis Tornado and Tornado Missiles for Nuclear Power Plants,” March 2007.

PADEP, 2008. “Pennsylvania Department of environmental Protection Air Quality Data,” February 2008.

PL, 1977. Clean Air Act (CAA), Public law 95-95, 42 USC Section 7622, August 7, 1977.

USEPA, 1972. U.S. Environmental Protection Agency, Office of Air Programs, “Mixing Heights, Wind Speeds, and Potential for Urban Air Pollution Throughout the Contiguous United States,” George C. Holzworth, January 1972

USEPA, 2008. U.S. Environmental Protection Agency, AirData, Nonattainment Areas Map-Criteria Air Pollutants, Website: http://www.epa.gov/air/data/nonat.html?st~PA~Pennsylvania, Date accessed: January 15, 2008.}

2.3.2 LOCAL METEOROLOGY

The U.S. EPR FSAR includes the following COL Item in Section 2.3.2:

> A COL applicant that references the U.S. EPR design certification will provide site-specific characteristics for local meteorology.

This COL Item is addressed as follows:

{Section 2.3.2.1 through Section 2.3.2.4 are added as a supplement to the U.S. EPR FSAR.

Section 2.3.2.1 through Section 2.3.2.3 present local summaries of meteorological data based on on-site measurements made in accordance with Regulatory Guide 1.23 and National Weather Service station summaries from appropriate nearby locations. Note that the National Climatic Data Center identifies both the BBNPP site and the NWS station at Wilkes-Barre/Scranton as being within the same climatic division. A climate division represents a region within a state that is as climatically homogeneous as possible. As such, it is deemed acceptable to use Wilkes-Barre/Scranton climatic statistics to characterize the BBNPP site.

On-site meteorological data compiled for SSES Units 1 and 2 were used in this analysis. These data are from the existing units' on-site meteorological monitoring program which was designed, and has been operated, according to Regulatory Guide 1.23, Revision 0 (NRC, 1972). The data recovery goal of 90% was met for each of the six years of data (2001-2006) used for meteorological statistics other than the joint frequency distribution tables used to determine atmospheric dispersion and deposition factors. The data recovery goal of 90% also was met for each of the seven years of data (2001-2007) used for joint frequency distribution tables used to determine atmospheric dispersion and deposition factors.

A review of the differences between Regulatory Guide 1.23, Revision 0, and Regulatory Guide 1.23, Revision 1 (NRC, 2007), concluded that the guidance provided in the two versions of the document are sufficiently similar, and that there is no adverse impact from using the on-site meteorological data monitored for SSES Units 1 and 2 in analyses for BBNPP. The on-site meteorological measurement program is described in Section 2.3.3.

Local meteorological values used for design and operating bases are bounded by those in the U.S. EPR design certification.

2.3.2.1 Normal and Extreme Values of Meteorological Parameters

Monthly and annual summaries of meteorological data are provided in Section 2.3.2.1.1 through Section 2.3.2.1.6.

2.3.2.1.1 Wind Speed and Direction

Table 2.3-28 and Table 2.3-29 present annual joint frequency distributions (JFD's) of wind speed and direction as a function of atmospheric stability for the 33 ft (10m) and 197 ft (60 m) measurement levels derived from the 2001-2007 data from the SSES on-site meteorological monitoring program. This set of JFD tables included the latest year of meteorological data available at the time. The hourly data used to calculate these tables were used to determine the atmospheric dispersion and deposition factors presented in Section 2.3.4 and Section 2.3.5.

Table 2.3-30 and Table 2.3-31 present annual JFD's of wind speed and direction as a function of atmospheric stability for the 33 ft (10m) and 197 ft (60 m) measurement levels. Table 2.3-32 through Table 2.3-39 present seasonal JFD's of wind speed and direction as a function of atmospheric stability. Table 2.3-40 through Table 2.3-63 present monthly JFD's of wind speed and direction as a function of atmospheric stability. These tables were developed using six years of on-site meteorological data (2001-2006) following the guidance in Regulatory Guide 1.23 (NRC, 2007).

Assumptions used to determine these JFD's are:

- Maximum wind speed allowable as good data was assumed to be 90 MPH.
- Maximum allowable delta temperature value was assumed to be 18°F.
- Maximum allowable wind direction value was assumed to be 540 degrees.

Input (other than the hourly meteorological data) used to determine these JFD's is provided in Table 2.3-64.

Table 2.3-65 through Table 2.3-67 present monthly and annual wind speed and direction information for NWS locations around the BBNPP site.

Figure 2.3-6 and Figure 2.3-7 present annual wind rose plots of the SSES 2001-2006 meteorological data for the 33 ft (10 m) and 197 ft (60 m) elevations using the wind speed classes utilized for the JFD tables. Figure 2.3-8 and Figure 2.3-9 present seasonal wind rose plots of the SSES 2001-2006 meteorological data for the 33 ft (10 m) and 197 ft (60 m) elevations using the wind speed classes utilized for the JFD tables. Figure 2.3-10 through Figure 2.3-33 present monthly wind rose plots of the SSES 2001-2006 meteorological data for the 33 ft (10 m) and 197 ft (60 m) elevations using the wind speed classes utilized for the JFD tables.

Figure 2.3-34 through Figure 2.3-36 present multi-year average annual wind rose plots for National Weather Service (NWS) stations around BBNPP (Wilkes-Barre/Scranton, Allentown, and Williamsport, Pennsylvania). Meteorological data used to create the plots were received from the U.S. Environmental Protection Agency Support Center for Regulatory Air Models and were measured at approximately 33 ft (10 m) above ground level. For Wilkes-Barre/Scranton, the meteorological data were from 1984 through 1987, 1989, 1991 and 1992. For Allentown and Williamsport, the meteorological data were from 1984 through 1992.

The annual prevailing wind direction (the direction from which the wind blows most often) at the SSES site at the 33 ft (10 m) level is from the east-northeast, approximately 15% of the time (Table 2.3-30). The next most prevalent wind direction is from the southwest approximately 11% of the time. Winds from the north-northeast through east-northeast sectors occur approximately 32% of the time. Conversely, winds from the west through northwest sectors occur approximately 9% of the time. The annual prevailing wind direction at the SSES site at the 197 ft (60 m) level is from the north-northeast, approximately 15% of the time (Table 2.3-31). The next most prevalent wind direction is from the southwest approximately 12% of the time. Winds from the north through northeast sectors occur approximately 32% of the time. Conversely, winds from the east through southeast sectors occur approximately 10% of the time. As is normally the case, there are more observations of calm winds at the lower level than at the higher level (0.05% versus 0.01%). At both levels, winds occur most infrequently from the west-northwest (approximately 2% of the time).

The annual prevailing wind direction at Wilkes-Barre/Scranton, Pennsylvania, is from the southwest, approximately 13% of the time (Figure 2.3-34). At Allentown, Pennsylvania, the annual prevailing wind direction is from the west-southwest, approximately 10% of the time (Figure 2.3-35). At Williamsport, Pennsylvania, the annual prevailing wind direction is from the west, approximately 12% of the time (Figure 2.3-36).

During the winter season, the prevailing wind direction at the 33 ft (10 m) level at SSES is from the southwest, approximately 12% (Table 2.3-32). The prevailing wind direction at the 197 ft (60 m) level at SSES is from the west-southwest, approximately 16% (Table 2.3-36). During the spring season, the prevailing wind direction at the 33 ft (10 m) level is from the east-northeast, approximately 12% of the time (Table 2.3-33). The prevailing wind direction at the 197 ft (60 m) level at SSES is from the north-northeast, approximately 14% (Table 2.3-37).

During the summer season, the prevailing wind direction at the 33 ft (10 m) level at SSES is from the east-northeast, approximately 18% of the time (Table 2.3-34). The prevailing wind direction at the 197 ft (60 m) level at SSES is from the north-northeast, approximately 18% (Table 2.3-38). During the autumn season, the prevailing wind direction at the 33 ft (10 m) level is from the east-northeast, approximately 17% of the time (Table 2.3-35). At the 197 ft (60 m) level, the prevailing wind direction is from the north-northeast, approximately 18% (Table 2.3-39).

The most prevalent wind speed class at SSES on an annual basis for the 33 ft (10 m) level is the 0.5-1.0 mps (1.1-2.2 mph) class, which occurs approximately 27% of the time (Table 2.3-30). The most prevalent wind speed class on an annual basis for the 197 ft (60 m) level is the 2.1-3.0 mps (4.7-6.7 mph) class, which occurs approximately 19% of the time (Table 2.3-31). Note that there are more observations of calm winds at the three NWS sites than at SSES. This may be due to:

- The use of different wind measurement instruments due to the different needs at the sites. The NWS sites are at airports, where high wind speeds are more important than low wind speeds since they have a greater impact on aviation. At SSES, wind measurements are made to determine atmospheric dispersion to aid in dose assessment; therefore, low wind speeds are more important since they will lead to less dispersion and higher dose.

The average wind speed at Wilkes-Barre/Scranton, Pennsylvania, is 3.67 mps (8.2 mph) and there have been observations of wind speeds up to 11 mps (25 mph) (Figure 2.3-34). At Allentown, Pennsylvania, the average wind speed is 3.92 (8.8 mph) and there have been observations of wind speeds greater than 11 mps (25 mph) (Figure 2.3-35). At Williamsport, Pennsylvania, the average wind speed is 3.44 (7.7 mph) and there have been observations of wind speeds greater than 11 mps (25 mph) (Figure 2.3-36).

On a seasonal basis, the most prevalent wind speed class for the 33 ft (10 m) level is the 0.5-1.0 mps (1.1-2.2 mph) class, which occurs approximately 24% of the time during the winter season (Table 2.3-32), 22% of the time during the spring season (Table 2.3-33), 32% during the summer season (Table 2.3-34), and 29% during the autumn season (Table 2.3-35). At the 197 ft (60 m) level, the most prevalent wind speed class is the 2.1-3.0 mps (4.7-6.7 mph) class, which occurs approximately 16% during the winter season (Table 2.3-36), 19% during the spring season (Table 2.3-37), 21% during the summer season (Table 2.3-38), and 19% during the autumn season (Table 2.3-39).

The maximum hourly wind speed measured at the 33 ft (10 m) level during the period 2001-2006 is 11.6 mps (26.0 mph). The maximum hourly wind speed measured at the 197 ft (60 m) level during the period 2001-2006 is 17.1 mps (38.3 mph).

Table 2.3-68 through Table 2.3-81 present annual and overall wind direction persistence summaries for the 33 ft (10 m) and 197 ft (60 m) measurement levels at SSES. These tables were developed using six years of on-site meteorological data (2001-2006). Table 2.3-74 and Table 2.3-81 present an average of the six individual year summaries for the 33 ft (10 m) and 197 ft (60 m) measurement levels respectively.

The majority of the time, approximately 91%, wind direction persistence events last for less than four hours at both measurement levels. Wind direction persistence events lasting 12 hours occur 6 and 7 times per year on the average for the 33 ft (10 m) and 197 ft (60 m) levels, respectively. Wind direction persistence events lasting greater than 24 hours occur less than once per year on the average for the 33 ft (10 m) level and twice per year on the 197 ft (60 m) levels.

2.3.2.1.2 Temperature and Humidity

Daily average and extreme temperature and dew point temperature summaries from the BBNPP on-site meteorological monitoring program are presented in Table 2.3-82 and Table 2.3-83 for the period from January 2001 through December 2006. Daily average and extreme temperature and dew point temperature summaries from Williamsport, PA for the period 2000-2005 are presented in Table 2.3-84. Monthly and annual temperature summaries from the SSES on-site meteorological monitoring program are presented in Table 2.3-85 through Table 2.3-92 for the period from January 2001 through December 2006. Monthly and annual mean relative humidity summaries from the SSES on-site meteorological monitoring program is presented in Table 2.3-93 for the period from January 2001 through December 2006.

The monthly mean temperature at SSES ranges from 27.9°F (-2.3°C) in January to 71.6°F (22.0°C) in July (Table 2.3-85). The monthly mean extreme maximum temperature (defined as the highest of the maximum values for each month over the period 2001-2006) at SSES was 73.6°F (23.1°C) in July (Table 2.3-86) and the monthly mean extreme minimum temperature (defined as the lowest of the minimum values for each month over the period 2001-2006) was 21.0°F (-6.1°C) in January (Table 2.3-87). The monthly mean daily maximum temperature (defined as the highest of the daily maximum values for each month over the period 2001-2006) at SSES was 81.6°F (27.6°C) in July and August (Table 2.3-88) and the monthly mean daily minimum temperature (defined as the lowest of the daily minimum values for each month over the period 2001-2006) was 21.2°F (-6.0°C) in January (Table 2.3-89). The maximum hourly temperature at SSES was 96.8°F (36.0°C) in August (Table 2.3-90) and the minimum hourly temperature was -7.0°F (-21.7°C) in January (Table 2.3-91). The frequency of occurrence of hourly temperature values falling below the freezing point (32°F or 0°C) is approximately 18% (Table 2.3-92). The frequency of occurrence of hourly temperature values falling below 0°F (-17.8°C) is less than 0.1% (Table 2.3-92). The mean number of days with maximum hourly temperature greater than or equal to 90°F, with minimum hourly temperature less than or equal to 32°F, and with minimum hourly temperature less than or equal to 0°F for sites around BBNPP (1971-2000) are presented in Table 2.3-99, Table 2.3-100 and Table 2.3-101.

The monthly mean relative humidity at SSES ranged from 49.6% in April to 63.2% in June over the period from 2001-2006 (Table 2.3-93). The monthly mean relative humidity and the daily variation of monthly mean relative humidity for sites around BBNPP (1971-2000) are presented in Table 2.3-102 and Table 2.3-103.

Temperature and humidity statistics from National Weather Service (NWS) sites around BBNPP are presented in Table 2.3-94 through Table 2.3-98. Dry bulb temperature values are from the 30-year period from 1971-2000. Wet bulb and dew point temperature values are from the 23-year period from 1978-2000.

The monthly mean temperature values at SSES are within approximately 7% of the monthly mean temperature values measured at Wilkes-Barre/Scranton. The monthly mean temperature values at SSES are within approximately 5% of the monthly mean temperature values measured at Allentown. The monthly mean temperature values at SSES are within approximately 9% of the monthly mean temperature values measured at Williamsport.

Table 2.3-104 through Table 2.3-111 present temperature and atmospheric moisture design conditions, including the monthly design dry bulb temperature and the mean coincident wet bulb temperature, and the monthly design wet bulb temperature and the mean coincident dry bulb temperature, for locations in the vicinity of BBNPP. These wet bulb temperature values correspond to 0.4%, 1.0%, and 2.0% cumulative frequency of occurrence for the indicated month (ASHRAE, 2005). Data for Wilkes-Barre/Scranton and Allentown, Pennsylvania, are from the period 1972-2001.

2.3.2.1.3 Precipitation and Fog

The monthly and annual precipitation summary from the SSES on-site meteorological monitoring program is presented in Table 2.3-112 through Table 2.3-115 for the period 2001-2006. Precipitation statistics from NWS sites around BBNPP are presented in Table 2.3-116 through Table 2.3-118 for the period from 1971-2000. Monthly and annual summaries of heavy fog (visibility less than ¼ mi) are presented in Table 2.3-119 for sites around BBNPP for the period from 1964-2006.

Monthly average precipitation at SSES ranges from 1.88 inches (47.75 mm) in February to 4.44 inches (112.78 mm) in October (Table 2.3-112). Monthly percent frequency of occurrence of precipitation at SSES ranges from 4.55% in July to 8.58% in January (Table 2.3-113). The rainfall rate distribution presented in Table 2.3-114 indicates that heavy rainfalls occur infrequently at BBNPP. The maximum monthly precipitation measured at SSES corresponds with the values from the NWS sites around the plant. The minimum monthly precipitation measured at SSES, however, does not correspond with the values from the NWS sites around the plant; this may be due to the difference in the period of records (6 years for SSES versus 30 for the NWS sites).

Figure 2.3-37 and Figure 2.3-38 present annual precipitation wind roses at SSES for the 33 ft (10 m) and 197 ft (60 m) elevations. These precipitation wind roses portray joint frequency distributions of wind speed and direction for only the hours in which precipitation was recorded. These annual precipitation wind roses show that the most frequent wind direction during precipitation events is from the north-northeast.

Figure 2.3-39 through Figure 2.3-62 present monthly precipitation wind roses of wind speed and direction as a function of precipitation rate class (0.1-0.2 in/hr or 2.5-5.1 mm/hr) at SSES for the 33 ft (10 m) and 197 ft (60 m) elevations. These precipitation wind roses portray joint frequency distributions of wind speed and direction as a function of precipitation rate class for only the hours in which precipitation was recorded.

Snowfall statistics for NWS sites located around BBNPP are presented in Table 2.3-117 for the period 1971-2000. Annual snowfall amounts ranged from 32.3 inches (820.42 mm) at Allentown to 47.0 inches (1193.80 mm) at Wilkes-Barre/Scranton. (NCDC, 2006)

Fog observations are not made as part of the on-site meteorological monitoring program. Fog observations were made at the NWS stations at Wilkes-Barre/Scranton, Allentown, and Williamsport, Pennsylvania. The average number of days per year with heavy fog (visibility less than one-quarter mile) are 20.3 for Wilkes-Barre/Scranton, 22.5 for Allentown, and 36.4 for Williamsport (Table 2.3-119).

2.3.2.1.4 Atmospheric Stability

Depending on the amount of incoming solar radiation and other factors, the atmosphere may be more or less turbulent at any given time. Meteorologists have defined atmospheric stability classes, each representing a different degree of turbulence in the atmosphere. When moderate to strong incoming solar radiation heats air near the ground, causing it to rise and generate large eddies, the atmosphere is considered unstable, or relatively turbulent. Unstable conditions are associated with atmospheric stability classes A and B. When solar radiation is relatively weak or absent, air near the surface has a reduced tendency to rise, and less turbulence develops. In this case, the atmosphere is considered stable, or less turbulent, and the stability class would be E, F or G. Stability classes C and D represent conditions of more neutral stability, or moderate turbulence. Neutral conditions are associated with relatively strong wind speeds and moderate solar radiation.

Atmospheric stability is determined by the delta temperature method as defined in Regulatory Guide 1.23 (NRC, 2007). This methodology classifies atmospheric stability based on the temperature change with height (°C per 100 m). At SSES, atmospheric stability is classified according to the difference between the temperature measurements at the 197 ft (60 m) and 33 ft (10 m) levels.

Table 2.3-120 through Table 2.3-133 present annual and overall atmospheric stability persistence summaries at the SSES site for the 33 ft (10 m) and 197 ft (60 m) elevations. The annual tables were developed using six years of on-site meteorological data (2001-2006). Note that there are slight differences between the two elevations even though they use the same delta-temperature measurements to determine atmospheric stability. This is because the computer code used to develop the tables checks the validity of the wind speed and direction values as well as the delta-temperature values.

The majority of the time (approximately 73%), stability persistence events last for less than four hours. Stability persistence events lasting 12 hours occur 13 times per year on the average and events lasting for greater than 24 hours occur 14 times per year on the average.

Table 2.3-134 presents a monthly atmospheric stability summary at the SSES site. It was generated using six years of on-site meteorological data (2001-2006). The most prevalent atmospheric stability class is class D; the least prevalent atmospheric stability class is class B.

2.3.2.1.5 Monthly Mixing Height Data and Inversion Summary

Monthly average mixing height values for the period 1997-2007 were calculated from the daily average values for each month of each year (as data were available) based on twice daily mixing height data from the National Climatic Data Center. These data were taken from the upper air and surface National Weather Service stations closest to BBNPP (Buffalo, New York, and Wilkes-Barre, Pennsylvania, respectively). Daily average mixing height values were calculated for each day that had both a morning and afternoon mixing height value; days not having both morning and afternoon mixing height values were excluded.

Overall monthly average mixing height values were calculated from the individual monthly average values; for example, the January overall monthly average mixing height value of 935 meters is the average of all of the individual January mixing height values from 1997 through 2007. On average, the number of valid days of data per month ranged from 14 to 31 (that is, days that had both a morning and afternoon mixing height value).

Annual and monthly average mixing height values are presented in Table 2.3-135 and Table 2.3-136. The annual average mixing height was 1,055 m (3,459 ft). The monthly average mixing heights ranged from 935 m (3,067 ft) in January and September to 1,222 m (4,008 ft) in April. A graphical portrayal of the monthly average mixing height values is to be found in Figure 2.3-63.

Frequency and persistence of temperature inversion conditions at SSES are presented in Table 2.3-137 through Table 2.3-142. These tables were developed using six years (2001-2006) of meteorological data from the on-site meteorological monitoring program at SSES. The maximum temperature inversion lasted 27 hours. Approximately 75% of the inversions lasted less than 12 hours.

2.3.2.1.6 Air Quality

Based on EPA data, Luzerne County, Pennsylvania, is in attainment for all the National Ambient Air Quality Standards (NAAQS). The NAAQS are presented in Table 2.3-143. Based on Pennsylvania Department of Environmental Protection data, the site location was in attainment in 2004 (most recent Ambient Air Quality Report available on the PADEP web site as of July 03, 2008) for sulfur dioxide, particulate matter (2.5 microns), carbon monoxide, and ozone. (PADEP, 2008)

Based on EPA data, Columbia County, Pennsylvania, is in attainment for all the National Ambient Air Quality Standards (NAAQS).

Luzerne County is part of the Northeast Pennsylvania-Upper Delaware Valley Interstate Air Quality Control Region (AQCR), as designated in the U.S. Code of Federal Regulations, Title 40, Part 81, Subpart B, Section 81.55 (40 CFR 81.55). The attainment status of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR with regard to national ambient air quality standards is listed as being better than national standards for sulphur dioxide, ozone (8-hr), and total suspended particulates, unclassifiable/attainment for carbon monoxide, nitrogen dioxide, and particulate matter (2.5 microns), nonattainment/marginal for ozone (1-hr), and particulate matter (2.5 microns), and not designated for lead (40 CFR 81.339). Note that the 1-hour ozone standard was revoked effective June 15, 2005, for all areas in Pennsylvania.

Columbia County is part of the Central Pennsylvania Intrastate Air Quality Control Region (AQCR), as designated in he U.S. Code of Federal Regulations, Title 40, Part 81, Subpart B, Section 81.104 (40 CFR 81.104). The attainment status of the Central Pennsylvania Intrastate AQCR with regard to national ambient air quality standards is listed as being better than national standards for sulphur dioxide, nitrogen dioxide, and total suspended particulates, unclassifiable/ attainment for carbon dioxide, particulate matter (2.5 and 10 microns), and ozone (8-hr), nonattainment/marginal for ozone (1-hr).

2.3.2.2 Potential Influence of the Plant and its Facilities on Local Meteorology

Figure 2.3-64 presents a map which shows the topography within a 1-mile (1.6-kilometer) radius of the site, the location of the meteorological towers, and SSES Units 1 and 2. Figure 2.3-65 presents a map which shows the topography within a 5 mi (8 km) radius of the site. Figure 2.3-66 presents a map which shows the topography within a 50 mi (80 km) radius of the site. Figure 2.3-67 presents a plot of maximum elevation versus distance from the center of the plant in each of the sixteen 22.5 degree compass point sectors (centered on true north, north-northeast, northeast, etc.) radiating from the plant to a distance of 50 mi (80 km).

BBNPP will be southwest of the existing SSES Units 1 and 2. Some portions of the site will be cleared of existing vegetation and graded to accommodate the reactor building and its ancillary structures. These terrain modifications would be limited to the BBNPP site and the immediate surrounding area and, therefore, will not represent a significant alteration to the topographic character of the region around the BBNPP site.

Construction activity will meet all pertinent federal and state air quality regulations. During operation of BBNPP, the diesel generators to be used in emergencies will be run on a reduced schedule. This schedule will balance maintenance and operability requirements with the need to limit emissions.

Waste heat produced by BBNPP will be dissipated by a closed cycle cooling system. Two natural-draft cooling towers will be used. An analysis was performed to determine any cooling tower impact on local meteorology. The results of the analysis are as follows:

- The sectors of maximum occurrence of visible plumes are NE and ENE.
- No fogging or icing will occur due to the operation of the BBNPP natural-draft cooling towers due to the height at which the release occurs.
- Maximum salt deposition rates in the vicinity of the BBNPP site and at the existing and proposed switchyards will be lower than the range of values provided in NUREG-1555, Section 5.3.3.2, to predict effects of drift deposition on plants (0.108 to 0.289 kg/hectare/ month vs. 10 to 20 kg/hectare/month).
- The maximum number of hours, annually, in which the plume will cause shadowing (partial blocking of the sunlight from reaching the ground) was determined to be 2,537 for distances within 400 meters of the cooling tower.
- Since there are no industrial pollution sources within 2 km (1.2 mi) of the BBNPP site, the potential for vapor plume interaction with air pollutant plumes was not evaluated.
- Due to the height of release, it was determined that the cooling tower plumes will not increase ground level humidity.

The effect of the cooling tower upon local cloud and precipitation patterns is expected to be negligible. As such, the plant is not expected to cause any significant influence on local meteorology.

It is not anticipated that plant construction and operation will cause changes in the normal and extreme meteorological values presented in this report.

2.3.2.3 Local Meteorological Conditions for Design and Operating Bases

Meteorological conditions for design and operating bases are discussed in Section 2.3.1.2.

2.3.2.4 References

ASHRAE, 2005. Weather Data Viewer, version 3.0, American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE), Inc., 2005.

NCDC, 2006. U.S. Department of Commerce, NOAA/NESDIS, National Climatic Data Center, Local Climatological Data, 2006 Annual Summary with Comparative Data, Williamsport Pennsylvania (KIPT).

NRC, 1972. Onsite Meteorological Programs, Safety Guide 23 (Regulatory Guide 1.23 Revision 0), U.S. Nuclear Regulatory Commission, February 1972.

NRC, 2007a. Meteorological Monitoring Programs for Nuclear Power Plants, Regulatory Guide 1.23, Revision 1, U.S. Nuclear Regulatory Commission, March 2007.

PADEP, 2008. “PA Department of Environmental Protection Air Quality Data,: March 2008.}

2.3.3 ONSITE METEOROLOGICAL MEASUREMENT PROGRAM

The U.S. EPR FSAR includes the following COL Item in Section 2.3.3:

A COL Applicant that references the U.S. EPR design certification will provide the site-specific, onsite meteorological measurement program.

This COL Item is as follows:

{Section 2.3.3.1 through Section 2.3.3.2 are added as a supplement to the U.S. EPR FSAR.

2.3.3.1 Pre-Application and Pre-operational Meteorological Measurement Program

The pre-application and pre-operational meteorological monitoring program for BBNPP is the operational program for SSES Units 1 and 2. The SSES program was designed in accordance with the guidance provided in Regulatory Guide 1.23 (Safety Guide 23) (NRC, 1972) and complies with the requirements of the second proposed Revision 1 of Regulatory Guide 1.23 March 2007 (NRC, 1986). There are currently three monitoring locations at SSES: a primary meteorological tower, a backup tower, and a supplemental (downriver) tower (described below in greater detail). The pre-application and pre-operational meteorological monitoring program for BBNPP will only include data from the primary SSES meteorological tower

2.3.3.1.1 Tower Location

The site is about 8 km (5 mi) ENE of Berwick, Pennsylvania. The primary meteorological tower for SSES is located on the SSES site (650 ft (198 m) msl) approximately 1,115 ft (340 m) to the southeast of the cooling towers. The area is generally level, increasing slightly in elevation to the north and west. South and east of the tower the topography slopes down towards the Susquehanna River. Vegetation in the immediate vicinity consists of low weeds with some deciduous trees in a gully to the south. The deciduous trees are approximately 40 ft (12 m) in height and are approximately 100 ft (30 m) from the tower. An ash facility exists approximately 185 ft (56 m) north of the tower. The maximum height of this structure is approximately 30 ft (9 m).

Figure 2.3-64, presents the location of the SSES and BBNPP meteorological towers as well as the topography of the BBNPP site within a 1 mi (1.6 km) radius. Figure 2.3-65, Topography Within 5-Miles of the BBNPP Site, presents the general topographic features of the region.

2.3.3.1.2 Tower Design

The primary SSES meteorological tower is a 200 ft (61 m) open-lattice steel framed tower.

The primary data recording system used for the SSES meteorological tower is a digital data acquisition system. All telemetry transmitters, translators and a data logger are housed in a weatherproof cinder block building. This building has thermostatically controlled heating and air conditioning. The secondary recording system is the SSES Control Room recorders.

2.3.3.1.3 Instrumentation

Instruments at the SSES meteorological tower monitor temperature, wind speed and direction, delta temperature, dew point and precipitation. Primary Meteorological tower instrument types, specifications and accuracies are presented in Table 2.3-144.

The temperature measuring system consists of multiple thermistor composite sensors. Two sensors are mounted in motor aspirated shields at each of the 33 ft (10 m) and 197 ft (60 m) levels (above ground level). Vertical dispersion coefficients are computed from the vertical temperature differences.

Wind speed and direction are monitored at the 33 ft (10 m) and 197 ft (60 m) levels using a 3-cup anemometer and a counterbalanced lightweight vane. The standard deviation of the wind direction (sigma theta) is measured at 33 ft (10 m) and 197 ft (60 m) and is used to compute horizontal dispersion coefficients. Sigma theta calculations based on wind direction measurements are used as a backup to temperature difference readings to monitor atmospheric stability.

The dew point temperature is measured at the 33 ft (10 m) level using a sensor consisting of bifilar gold electrodes wound on a lithium chloride impregnated wick.

Precipitation is measured at the base of the tower using a heated tipping bucket rain gauge. This is a remote reading rain gauge which produces a signal proportional to total rainfall.

2.3.3.1.4 Instrument Maintenance and Surveillance Schedules

Calibration schedules are specified to comply with Regulatory Guide 1.23 recommendations. Equipment checks are performed at least weekly. Charts are changed as required. Component checks and adjustments are performed when required. All meters and other equipment used in calibration are, in turn, calibrated at scheduled intervals.

Inspection and maintenance of all equipment is accomplished in accordance with procedures. Inspection is implemented by qualified technicians that are capable of performing the maintenance, if required. The results of the inspections and maintenance performed are recorded.

2.3.3.1.5 Data Reduction and Compilation

The primary data recording system is a digital data acquisition system. Both 15-minute and hourly averaged data values are produced. An analog recording system provides a backup in case of digital system failure, so that a high data recovery rate can be maintained. Data recovery rates for the SSES Units 1 and 2 meteorological monitoring program have consistently been greater than 95%.

Section 2.3.3.6 of the SSES Units 1 and 2 FSAR, Rev. 60 (June 2005) (SSES, 2005) describes the analytical data reduction procedures used to produce hourly averages and other specified meteorological compilations including the following:

- For temperature and dew point, computing hourly averages from five second sample data
- Treatment of calm wind conditions
- Computing hourly averages for wind speed and wind direction
- Replacement of invalid or missing digital data with analog data
- Substituting data from the secondary tower level (197 ft (60 m)) for unavailable data from the primary tower level (33 ft (10 m))

- Reducing the 197 ft (60 m) wind speed to the equivalent 33 ft (10 m) value utilizing the wind power law.

The hourly values of the meteorological parameters are then processed to obtain the following compilations:

- Joint frequency distributions of wind speed and stability for lower and upper levels
- Wind direction persistence summaries by stability class
- Maximum, minimum and diurnal variation of temperature and humidity
- Annual average values of relative concentration with direction and distance
- Frequency distribution of concentrations for the 0-2 hour, 0-8 hour, 8-24 hour, 1-4 day and 4-30 day time periods.

Annual summaries of meteorological data in the form of joint frequency distributions of wind speed and wind direction by atmospheric stability class are kept onsite and are available to the Nuclear Regulatory Commission upon request. The annual summaries used for licensing are presented in FSAR Section 2.3.2.

ER Section 2.7 indicates that the SSES meteorological data represent long-term conditions at the site by comparing site meteorological statistics with similar statistics from surrounding National Weather Service (NWS) stations (Wilkes-Barre/Scranton, Allentown, and Williamsport, PA). The comparison noted:

- Wilkes-Barre/Scranton is located in the same climatic division as the BBNPP and SSES site. (A climate division represents a region within a state that is as climatically homogeneous as possible, as determined by the U.S. National Climatic Data Center.)
- The monthly mean temperatures at the SSES site are within 0.9 degree Fahrenheit (0.5 degree Celsius) of the three NWS sites on the average. The annual mean temperature at the SSES site is within 0.1 degree Fahrenheit (0.6 degree Celsius) of the Allentown value.
- The annual average precipitation at the SSES site is within 1.5 inches (38.1 mm) of the Wilkes-Barre/Scranton value.
- Winds are from the SW approximately 11% of the time at the SSES site and are from the SW approximately 13% of the time at Wilkes-Barre/Scranton.

2.3.3.1.6 Nearby Obstructions to Air Flow

Downwind distances from the SSES meteorological tower to nearby (within 0.5 mi (0.8 km)) obstructions to air flow were determined using U.S. Geological Survey topographical maps. Highest terrain is to the west and north. Lowest terrain is to the northeast through southeast (river valley). Table 2.3-145 presents the distances to nearby obstructions to air flow in each downwind sector.

A study performed to determine the effect of the SSES Units 1 and 2 cooling towers on meteorological measurements at SSES Units 1 and 2 concluded that the impact of the cooling towers on wind speed measurements is minimal and the effect on wind direction measurements is nearly non-existent.

2.3.3.1.7 Deviations to Guidance from Regulatory Guide 1.23

The pre-operational meteorological monitoring program for BBNPP deviates from the guidance provided in Regulatory Guide 1.23, Revision 1 (NRC, 2007) The SSES meteorological tower is not at a distance at least 10 times the height of any nearby obstruction that exceeds one-half the height of the wind measurement. Further discussion is provided in Section 6.4.1.1. The SSES meteorological tower is not at the same elevation as the finished BBNPP grade. The SSES tower location was selected to assure the meteorological tower was located on level, open terrain at a suitable distance from any nearby obstructions and complies with the guidance of the second proposed revision to Reguatory Guide 1.23, Revision 1 (NRC, 1986). Also, the resolution of the existing sensors does not meet the measurement resolution recommended in Regulatory Guide 1.23, Revision 1.

The tower, guyed wire, and anchor inspections are performed once every 5 years instead of an annual inspection for tower and guyed wire and an anchor inspection of once every 3 years as provided in Regulatory Guide 1.23, Revision 1.

2.3.3.2 .Operational Meteorological Measurement Program

The operational meteorological monitoring program for BBNPP utilizes the BBNPP meteorological tower and its instrumentation, telemetry and data recording system. This program complies with the guidance provided in Regulatory Guide 1.23, Revision 1 (NRC, 2007).

Information relating to the BBNPP meteorological tower location and support facilities for the operational meteorological monitoring program is the same as contained in Section 2.3.3.2.1. Section 2.3.3.2.3 contains general instrument information.

Table 2.3-144 presents information on the BBNPP meteorological tower instrument specifications.The BBNPP meteorological tower instrumentation complies with regulatory guidance in Regulatory Guide 1.23, Revision 1. Information relating to operational instrument maintenance and service schedules is contained in Section 2.3.3.2.4. Data reduction and compilation is contained in Section 2.3.3.2.5.

Pertinent meteorological data is submitted to the NRC's ERDS as required in Section VI of Appendix E to 10 CFR Part 50.

2.3.3.2.1 Tower Location

The BBNPP meteorological tower and support facilities for the operational meteorological monitoring program is located approximately 3577 ft (1090 m) ESE of the BBNPP Reactor Building Grade at the tower is approximately 670 ft (204 m) msl. Figure 2.3-64, presents the location of the BBNPP meteorological tower and the topography of the BBNPP site within a 1 mi (1.6 km) radius. Figure 2.3-65, Topography Within 5-Miles of the BBNPP Site, presents the general topographic features of the region.

2.3.3.2.2 Tower Design

The BBNPP meteorological tower is provided in Section 2.3.3.1.2.

2.3.3.2.3 Instrumentation

Information relating to the primary meteorological tower is a 200 ft (61 m) steel framed tower.

The primary data recording system used for the BBNPP meteorological tower is a digital data acquisition system. All telemetry transmitters, translators and a data logger are housed in a weatherproof cinder block building. This building has thermostatically controlled heating and air conditioning. The secondary recording system is the Process Information and Control System (PICS).

2.3.3.2.4 Instrument Maintenance and Surveillance Schedules

Information relating to the primary meteorological tower instrument maintenance and surveillance schedules is provided in Section 2.3.3.1.4.

2.3.3.2.5 Data Reduction and Compilation

The BBNPP meteorological tower data collection uses electronic digital data acquisition systems as the primary data recording system and conforms to the guidance in Regulatory Guide 1.23, Revision 1 (NRC, 2007).

The 15-minute averaged data are available for use in the determination of magnitude and continuous assessment of the impact of releases of radioactive materials to the environment during a radiological emergency (as required in 10 CFR Part 50, Paragraphs 50.47 (b)(4), 50.47 (b)(8), and 50.47 (b)(9) as well as Section IV.E.2 of 10 CFR 50 Appendix E). The hourly averaged data are available for use to:

1. Determine radiological effluent release limits associated with normal operations can be met for any individual located off site (as required in 10 CFR 100.21 (c)(1).
2. Determine radiological dose consequences of postulated accidents meet prestrike dose limits at the Exclusion Area Boundary (EAB) and Low Population Zone (LPZ) (as required in 10 CFR 52.79 (a)(1)(vi)).
3. Evaluate personnel exposures in the control room during radiological and airborne hazardous material accident conditions (as required in 10 CFR Part 50, Appendix A).
4. Determine compliance with numerical guides for design objectives and limiting conditions for operation to meet the requirement that radioactive material in effluents released to unrestricted areas be kept as low as is reasonably achievable (as required in 10 CFR Part 50, Appendix I).
5. Determine compliance with dose limits for individual members of the public (as required in 10 CFR Part 20, Subpart D).

2.3.3.2.6 Nearby Obstructions to Air Flow

Downwind distances from the BBNPP meteorological tower to nearby (within 0.5 mile or 0.8 km) obstructions to air flow were determined using U.S. Geological Survey topographical maps. Highest terrain is to the west and north. Lowest terrain is to the northeast through southeast (river valley). Table 2.3-145 presents the distances to nearby obstructions to air flow in each downwind sector.

Environmental Report Table 6.4-5 presents building heights and distances from various structures to the BBNPP meteorological tower. The BBNPP cooling towers are 474 ft (145 m) tall and the SSES cooling towers are 540 ft (165 m) tall. The two tallest EPR buildings are the Reactor Building 204 ft (62 m) and the Turbine Building 181 ft (55 m). The Turbine Building is also the closest major building to the meteorological tower. Both buildings will be finished grade of approximately 674 ft (205 m) msl. Grade at the BBNPP meteorological tower is approximately 670 ft (204 m) msl. This small difference in grade between finished site grade and the meteorological tower grade is acceptable per Regulatory Guide 1.23, Revision 1.

All EPR buildings are greater than a factor of ten times their respective heights away from the meteorological tower, and as such are not expected to impact the meteorological measurements. The BBNPP and SSES cooling towers are closer than a factor of ten times their respective heights away from the BBNPP meteorological tower. This deviation from Regulatory Guide 1.23, Revision 1 has a minimal influence on the BBNPP meteorological tower instruments as discussed in the study described below.

A study performed to determine the effect of the SSES Unit 1 and 2 cooling towers on meteorological measurements at SSES (refer to Section 2.3.3.1.6) concluded that the impact of the cooling towers on wind speed measurements in minimal and the effect on wind direction measurements is nearly non-existent. Since the BBNPP meteorological tower is further away from the SSES cooling towers than the SSES meteorological tower, it is concluded that there will be little to no impact on wind measurements made at the BBNPP meteorological tower due to the SSES cooling towers. Similarly, since the BBNPP meteorological tower is further away from the BBNPP cooling towers than the SSES meteorological tower is to the SSES cooling towers, it is concluded that there will be little to no impact on wind measurements made at the BBNPP meteorological tower due to the BBNPP cooling towers. In addition, the predominant wind direction for the site has been from the east-northeast at the 10 m level and from the north-northeast at the 60 m level with secondary peaks at both levels from the southwest. Due to the orientation of the BBNPP meteorological tower with respect to the BBNPP and SSES cooling towers, the influence of the local meteorology will act also to minimize the impact of the cooling towers on meteorological measurements.

2.3.3.2.7 Deviations to Guidance from Regulatory Guide 1.23

The only deviation to the guidance from Regulatory Guide 1.23, Revision 1 (NRC, 2007) is the criterion that the distance of any nearby obstructions are at least 10 times the height of the structure that exceeds one-half of the height of the wind measurement away from the meteorological tower. The BBNPP and SSES cooling towers do not meet this distance criterion for the BBNPP meteorological tower.

2.3.3.3 References

NRC, 1972. Onsite Meteorological Programs, Safety Guide 23 (Regulatory Guide 1.23 Revision 0), U.S. Nuclear Regulatory Commission, February 1972.

NRC, 1986. Meteorological Measurement Program For Nuclear Power Plants, Regulatory Guide 1.23, Second Proposed Revision 1, U.S. Nuclear Regulatory Commission, April 1986.

NRC, 2007. Meteorological Monitoring Programs for Nuclear Power Plants, Regulatory Guide 1.23, Revision 1, U.S. Nuclear Regulatory Commission, March 2007.

SSES, 2005. Susquehanna Steam Electric Station, Final Safety Analysis Report, Rev. 60, June 2005.}

2.3.4 SHORT TERM ATMOSPHERIC DISPERSION ESTIMATES FOR ACCIDENT RELEASES

The U.S. EPR FSAR includes the following COL Item in Section 2.3.4:

> A COL applicant that references the U.S. EPR design certification will confirm that site-specific χ/Q values, based on site-specific meteorological data, are bounded by those specified in Table 2.1-1 at the EAB and LPZ and by Table 2.3-1 at the control room.
>
> For site-specific χ/Q values that exceed the bounding χ/Q values, a COL applicant that references the U.S. EPR design certification will demonstrate that the radiological consequences associated with the controlling design basis accident continue to meet the dose reference values given in 10 CFR Part 50.34 and the control room operator dose limits given in GDC 19 using site-specific χ/Q values.
>
> A COL applicant that references the U.S. EPR design certification will provide a description of the atmospheric dispersion modeling used in evaluating potential design basis events to calculate concentrations of hazardous materials (e.g., flammable or toxic clouds) outside building structures resulting from the onsite and/or offsite airborne releases of such materials.
>
> A COL applicant that references the U.S. EPR design certification will provide χ/Q values for each cumulative frequency distribution which exceeds the median value (50 percent of the time) as part of the assessment of the postulated impact of an accident on the environment.

These COL Items are addressed in Section 2.3.4.2.1 through 2.3.4.2.4.

Sections 2.3.4.1 through 2.3.4.4 are added as a supplement to the U.S. EPR FSAR.

2.3.4.1 Objective

This section provides, for appropriate time periods up to 30 days after an accident, conservative estimates of atmospheric dispersion factors (χ/Q) values at the exclusion area boundary (EAB), at the outer boundary of the low population zone (LPZ), and at the control room for postulated accidental radioactive airborne releases. This section also addresses atmospheric dispersion modeling used in Section 2.2.3 to evaluate potential design basis events resulting from the onsite and/or offsite airborne releases of hazardous materials (e.g., flammable vapor clouds, toxic chemicals, and smoke from fires).

2.3.4.2 Calculations

2.3.4.2.1 Conservative Short-Term (Accident Release) Atmospheric Dispersion Estimates for EAB and LPZ

Short-term atmospheric dispersion estimate (χ/Q) values at the Exclusion Area Boundary (EAB) and Low Population Zone (LPZ) are provided in Table 2.1-1 of the U.S. EPR FSAR. {Conservative estimates of site-specific atmospheric dispersion for the Bell Bend Nuclear Power Plant (BBNPP) EAB and the boundary of the site-specific LPZ were determined using computer code AEOLUS3 and seven years of meteorological data (2001-2007) from the onsite monitoring program at the existing Susquehanna Steam Electric Station (SSES) Units 1 and 2. Site-specific local meteorological data are described in Section 2.3.2, Local Meteorology.

Input details for AEOLUS3 Version 1 are provided in Section 2.3.4.3

The determination of the site-specific atmospheric dispersion for the EAB and the outer boundary of the LPZ complies with the guidance provided in Regulatory Guide 1.145, Revision 1 (NRC, 1982).

Conservative estimates of atmospheric dispersion for the EAB and the boundary of the LPZ for BBNPP are presented in Table 2.3-147. The 0-2 hour χ/Q value for the EAB, and the 1-4 days and 4-30 days χ/Q values for the LPZ are bounded by the values presented in Table 2.1-1 in the U.S. EPR Final Safety Analysis Report. The 0-2 hour, 2-8 hour, and 8-24 hour χ/Q values are not bounded.}

2.3.4.2.2 Realistic Short-Term (Accident Release) Atmospheric Dispersion Estimates for EAB and LPZ

{Realistic estimates of the site-specific atmospheric dispersion for the BBNPP EAB (exclusion area boundary) and the boundary of the site-specific LPZ were determined using computer code AEOLUS3 and seven years of meteorological data (2001-2007) from the onsite monitoring program at the existing SSES Units 1 and 2. Site-specific local meteorological data are described in Section 2.3.2, Local Meteorology.

In determining the 50th percentile χ/Q's for Section 7.1 of the Environmental Report, use was made of the methodology in Sections 1.4 and 2.2 of Regulatory Guide 1.145 (NRC, 1982), the 0-2 hour 50th percentile value for the LPZ, and the five percentile values for all accident time periods determined using computer code AEOLUS3 and seven years of onsite meteorological data from SSES (2001-2007), to determine the 50th percentile 2-8 hour, 8-24 hour, 1-4 days, and 4-30 days time periods for the LPZ. The 0-2 hour 50th percentile value for the EAB was extracted directly from the computer output.

Regulatory Guide 1.145 requires the following steps to be performed for computation of the accident atmospheric dispersion factors (χ/Q) at the Low Population Zone (LPZ):

1. The 2-hour accident χ/Q and the annual average χ/Q are determined for each sector at the outer LPZ boundary distances.
2. The two values for any given sector (the 2-hour accident χ/Q and the annual average χ/Q) are plotted on a log-log graph, and values at other time intervals of interest are determined through logarithmic interpolation between these two points.
3. The time periods should be selected to represent appropriate meteorological time regimes (an 8-hour interval for releases during the first 8 hours of the postulated accident, a 16-hour interval for releases between 8 and 24 hours, a 3-day interval for releases between 1 and 4 days, and a 26-day interval for releases between 4 and 30 days).

Since the annual average χ/Q is an integral part of the model for determination of accident χ/Q values, it is possible to use the Regulatory Guide 1.145 methodology in reverse order to determine the annual average χ/Q which was used in the computation of the accident χ/Q values. The accident χ/Q values and the annual average χ/Q value should be on a straight line when plotted on a log-log graph. Hence, the 50th percentile atmospheric dispersion factors were determined using this methodology. These factors are presented in Table 2.3-148.}

2.3.4.2.3 Short-Term (Accident Release) Atmospheric Dispersion Estimates for the Control Room

Short-term atmospheric dispersion estimates (χ/Q) values estimated for the control room are provided in Table 2.3-1 of the U.S. EPR FSAR. Short-term atmospheric dispersion χ/Q estimates for unfiltered inleakage into the control room are provided in Table 2.3-2 of the U.S. EPR FSAR. {Conservative estimates of the site-specific atmospheric dispersion for the control room were determined using computer code ARCON96 and seven years of meteorological data (2001-2007) from the onsite monitoring program at the existing SSES Units 1 and 2. The version of the ARCON96 code which was used is the May 9, 1997 version which is endorsed in Regulatory Guide 1.194. Site-specific local meteorological data are described in Section 2.3.2, Local Meteorology.

ARCON96 implements the guidance in Regulatory Guide 1.194, "Atmospheric Relative Concentrations for Control Room Radiological Habitability Assessments at Nuclear Power Plants" (NRC, 2003). ARCON96 was specifically developed for the Nuclear Regulatory Commission (NRC, 1997). The determination of the site-specific atmospheric dispersion for the control room complies with the guidance provided in Regulatory Guide 1.194, Revision 0.

Inputs to the ARCON96 computer code are provided in Table 2.3-146.

Conservative site-specific estimates of atmospheric dispersion for the BBNPP control room are presented in Table 2.3-149 through Table 2.3-153. The values for the control room presented in Table 2.3-149 through Table 2.3-153 are bounded by those in Table 2.3-1 within the U.S. EPR Final Safety Analysis Report.

Figure 2.3-1 of the U.S. EPR FSAR indicates the locations of potential accident release pathways and their relationship to the control room. COL FSAR Figures 2.1.1-1 and 2.3.4-1 provide the BBNPP site plant and control room location.

2.3.4.2.4 Atmospheric Dispersion Modeling for Hazardous Materials

The description of the atmospheric modeling used in the evaluation of potential design basis events to calculate concentration of hazardous material is provided in Section 2.2.3.1.

2.3.4.3 Input Details for Computer Code AEOLUS3 (Version 1)

AEOLUS3 was developed and validated by Entech Engineering. It implements the guidance in Regulatory Guide 1.145, "Atmospheric Dispersion Models for Potential Accident Consequence Assessments at Nuclear Power Plants," for accidental releases (NRC, 1982).

The following assumptions were made for the short-term atmospheric dispersion analysis:

- Short-term atmospheric dispersion factors determined using AEOLUS3 assumed a ground level release. Therefore, in accordance with Regulatory Guide 1.145, the release point and receptor elevations were assumed to be the same.
- For EAB/LPZ atmospheric dispersion factors for DBAs, all post-accident release points were based on the ground level release model with no dispersion credit for building wake effects. However, plume meander, which predominates building wake effects during short time intervals, is accounted for.

Downwind distances for which atmospheric dispersion factors for DBA analyses will be determined using computer code AEOLUS3 version 1.0 are: 402 m (0.25 mi), 610 m (0.379 mi), 632 m (0.39 mi), 644 m (0.4 mi), 692 m (0.43 mi), 805 m (0.5 mi), 845 m (0.53 mi or 2,772 ft), 1,207 m (0.75 mi), 1,609 m (1.0 mi), 2,414 m (1.5 mi), 3,219 m (2.0 mi), 4,023 m (2.5 mi), 4,828 m (3.0 mi), 6,437 m (4.0 mi), and 8,047 m (5.0 mi).

The distance of 1.5 miles in the above list corresponds to the LPZ. The analytical distance of 632 meters (0.393 mile) is equivalent to the physical distance of the EAB of 0.430 miles measured from the containment building centerline. The difference between the physical and analytical distances (60 m) corresponds to the distance of the US EPR farthest release point from the containment building centerline; this was conservatively assumed to apply to all release points.

- There are two redundant outside air intakes for the CR/TSC envelope, one on the roof of Safeguard Building Division #2 (Building 2UJK), and another on Safeguard Building #3 (Building 3UJK). The locations for these intakes are in the corners farthest away from the containment building (on the northwest corner of Division 2 and the northeast corner of Division 3). In addition, there could be multiple/alternative release points for any given accident, such as four Main Steam Relief Trains for a postulated Steam Generator Tube Rupture accident. In the present application, it was assumed that the outside air for the CR/TSC envelope will be from a single intake.
- For the canopy and depressurization shaft releases, intervening walls and roof in the line of sight between the release points and the Control Room air intakes were conservatively ignored.

Inputs to the AEOLUS3 computer code are provided in Table 2.3-146.

2.3.4.4 References

NRC, 1982. Regulatory Guide 1.145, Revision 1, Atmospheric Dispersion Models for Potential Accident Consequence Assessments at Nuclear Power Plants, U.S. Nuclear Regulatory Commission, November 1982.

NRC, 1997. NURGE/CR-6331, Revision 1, Atmospheric Relative Concentrations in Building Wakes, U.S. Nuclear Regulatory Commission, May 1997.

NRC, 2003. Regulatory Guide 1.194, Revision 0, Atmospheric Relative Concentrations for Control Room Radiological Habitability Assessments at Nuclear Power Plants, U.S. Nuclear Regulatory Commission, June 2003.}

2.3.5 LONG-TERM ATMOSPHERIC DISPERSION ESTIMATES FOR ROUTINE RELEASES

The U.S. EPR FSAR includes the following COL Items in Section 2.3.5:

> A COL applicant that references the U.S. EPR design certification will provide the site-specific, long-term diffusion estimates for routine releases. In developing this information, the COL applicant should consider the guidance provided in Regulatory Guides 1.23, 1.109, 1.111, and 1.112. The maximum annual average χ/Q value at the site boundary, provided in Table 2.1-1, is used to calculate radionuclide concentrations associated with routine gaseous effluent releases, addressed in Section 11.3, for comparison with environmental release limits and dose limits given in 10 CFR Part 20. If a reactor site has an annual average χ/Q value that exceeds the reference value, then a site-specific evaluation will be performed.
>
> A COL applicant that references the U.S. EPR design certification will also provide estimates of annual average atmospheric dispersion (χ/Q values) and deposition (D/Q values) for 16 radial sectors to a distance of 50 mi (80 km) from the plant as part of its environmental assessment.

These COL Items are addressed as follows:

Section 2.3.5.1 through 2.3.6 are added as a supplement to U.S. EPR FSAR.

2.3.5.1 Objective

This section provides realistic estimates of annual average atmospheric dispersion (χ/Q values) and deposition (D/Q values) to a distance of 50 mi (80 km) for annual average release limit calculations and person-rem estimates.

2.3.5.2 Calculations

{Realistic estimates of site-specific annual average atmospheric transport and diffusion characteristics were determined using computer code AEOLUS3 and seven years of meteorological data (2001-2007) from the onsite monitoring program at the existing Susquehanna Steam Electric Station (SSES) Units 1 and 2. Site-specific local meteorological data are described in Section 2.3.2, Local Meteorology.

AEOLUS3 was developed and validated by Entech Engineering. It implements the guidance in Regulatory Guide 1.111, "Methods for Estimating Atmospheric Transport and Dispersion of Gaseous Effluents in Routine Releases from Light-Water-Cooled Reactors," for routine releases (NRC, 1977a).

AEOLUS3 operates in a batch-input mode with various options that are user selectable. The program is based on a straight-line trajectory Gaussian plume model. The plume can be depleted by wet deposition, dry deposition, and radioactive decay. The computed ground-level concentration can be modified to account for plume recirculation or stagnation. The program computes an effective plume height which accounts for physical release height, aerodynamic downwash, plume rise, and terrain heights. Other options include plume-meander effects and wind speed extrapolation.

AEOLUS3 produced the following dispersion parameters: the concentration χ/Q, which is used for the determination of airborne concentrations and inhalation doses at offsite receptors of interest as well as gamma air doses, the gamma χ/Q, which may be employed in the computation of external gamma radiation from the ensuing finite clouds of radioactive material, and the deposition factor D/Q, which is used as a measure of the relative deposition of released radioactivity. Doses calculated due to postulated normal effluents from Bell Bend Nuclear Power Plant (BBNPP) made use of the concentration χ/Q and deposition D/Q values. The gamma χ/Q values, while not used to determine normal effluent doses for BBNPP, represent an alternative methodology to determine gamma air doses.

AEOLUS3 computes plume standard deviations in the horizontal and vertical dimensions (sy and sz, respectively) using the analytical expressions from the Nuclear Regulatory Commission sponsored computer program XOQDOQ. The onsite meteorological data used in the dispersion analysis has been shown to be representative of the region as discussed in Section 2.3.2. Thus, the atmospheric dispersion and deposition factors determined by AEOLUS3 from the site boundary to a radius of 50 mi (80 km) from the plant are appropriate for use in estimating the consequences of routine releases for BBNPP.

Meteorological data summaries used as input to AEOLUS3 are provided in Section 2.3.2. The regulatory guidance described in Regulatory Guide 1.23, Revision 1 (NRC 2007), was followed in the determination of appropriate onsite meteorological data. The regulatory guidance described in Regulatory Guide 1.112 (NRC, 1977b) was followed in the determination of points of routine release of radioactive materials to the atmosphere and their characteristics. The regulatory guidance described in Regulatory Guide 1.109, Revision 1 (NRC, 1977c), was followed in the determination of potential receptors of interest.

The following assumptions were made for the long-term atmospheric dispersion analysis:

- Seven years of onsite meteorological data were used (2001 through 2007),
- A mixed mode release from the stack,
- Lower level (10 m or 33 ft) wind speed and direction data were used,
- Wind speed extrapolation was performed using the XOQDOQ coefficients,
- Vertical temperature difference (temperature difference between 60 m (197 ft) and 10 m (33 ft)) data were used,
- Building wake credit was taken using a Reactor Building height of 60 m (197 ft) and cross-sectional area of 2,940 m^2 (31,630 ft^2),
- Stack height was assumed to be 62 m (203 ft),
- Stack inner diameter was assumed to be 3.8 m (12.5 ft (a conservative assumption)),
- Stack flow rate was assumed to be 242,458 ft^3/min (6,865,646 l/min) (a conservative· assumption),
- Midpoint energy and relative intensity of the gamma spectrum used to determine gamma χ/Q values were 0.3 MeV and 1.0 MeV/sec,

- Twelve wind speed groups were used per Regulatory Guide 1.23, Revision 1 (with additional wind speed class breakdown at the lower wind speeds that are important for atmospheric dispersion),
- Plume rise was considered for the elevated portion of the mixed mode release,
- Plume meander was considered,
- Site-specific recirculation correction factors were used.
- Dispersion coefficients were modeled as done in NRC code XOQDOQ,
- Regulatory Guide 1.111 depletion and deposition curves were used,
- An annual average mixing height value of 900 m (2,953 ft) was used (conservative value),
- Grid receptor distances were chosen per Regulatory Guide 1.109 (NRC, 1977c), Appendix D, Section 2.6 with some additional distances,
- Special receptors were included (site boundary, nearest residents, gardens, and milk and meat animals) according to the guidance provided in Regulatory Guide 1.109 (NRC, 1977c),
- Terrain height of receptors was considered.

Inputs to the AEOLUS3 computer code are provided in Table 2.3-154.

The atmospheric transport and diffusion model used to determine the long-term atmospheric dispersion estimates for routine releases for BBNPP complies with the guidance provided in Regulatory Guide 1.111, Revision 1 (NRC, 1977a).

A mixed mode release from the BBNPP stack was modeled to determine routine release normal effluent atmospheric dispersion and deposition factors. Figure 2.3-1 of the U.S. EPR Final Safety Analysis Report indicates the location of the stack. As previously stated, seven years of meteorological data (2001-2007) from the onsite monitoring program at SSES Units 1 and 2 were used in the analysis. A summary of these data in the form of a joint frequency distribution of wind speed and direction as a function of atmospheric stability is provided in Section 2.3.2.

Credit for building wake effect was taken. The release point was 203 ft (62 m) above grade (6.6 ft (2 m) above the Reactor Building). Terrain height values for downwind receptor locations were determined using topographic maps from the U.S. Geological Survey. The annual average height of the inversion layer and the maximum allowable plume centerline height were set to 900 m (2,953 ft). This value was determined using Figures 1 and 6 from Report AP-101 (EPA, 1972). A stack flow rate of 242,458 ft^3/min was used; this is a conservative value, since the actual flow rate for normal operations will be higher.

Table 2.3-155 through Table 2.3-179 present the site-specific normal effluent annual average atmospheric dispersion and deposition factors for a mixed mode release from the BBNPP stack. Locations of interest (i.e., site boundary, nearest resident, nearest garden, milk/meat animals) were derived from the SSES Annual Radiological Environmental Operating Report for 2006, and from regulatory guidance. The specific locations of the potential receptors of interest are provided in each table in terms of downwind sector and distance from the stack.

2.3.5.3 Site-Specific Evaluation of Maximum Annual Average χ/Q

The maximum site-specific annual average X/Q and D/Q values at or beyond the site boundary are 9.672E-06 sec/m^3 (site boundary, N downwind sector, 320 m) and 1.721E-08 1/m^2 (site boundary, NE downwind sector, 928.5 m), respectively. The maximum annual average X/Q at or beyond the site boundary is not bounded by the value presented in Table 2.1-1 within the U.S. EPR Final Safety Analysis Report (FSAR). This is a departure from the U.S. EPR FSAR.

2.3.6 REFERENCES

EPA, 1972. Division of Meteorology, Report AP-101, Mixing Heights, Wind Speeds, and Potential for Urban Air Pollution Throughout the Contiguous United States, U.S. Enviromental Protection Agency, George C. Holztworth, 1972.

NRC, 1977a. Regulatory Guide 1.111, Revision 1, Methods for Estimating Atmospheric Transport and Dispersion of Gaseous Effluents in Routine Releases from Light-Water-Cooled Reactors, U.S. Nuclear Regulatory Commission, July 1977.

NRC, 1977b. Regulatory Guide 1.112, Revision 0-R, Calculation of Releases of Radioactive Materials in Gaseous and Liquid Effluents from Light-Water-Cooled Power Reactors, U.S. Nuclear Regulatory Commission, May 1977.

NRC, 1977c. Regulatory Guide 1.109, Revision 1, Calculation of Annual Dose to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR Part 50, Appendix I, U.S. Nuclear Regulatory Commission, October 1977.

NRC, 2007. Regulatory Guide 1.23, Revision 1, Meteorological Monitoring Programs for Nuclear Power Plants, U.S. Nuclear Regulatory Commission, October 2007.}

Table 2.3-1 National Ambient Air Quality Standards

	Primary Standards		Secondary Standards	
Pollutant	**Level**	**Averaging Time**	**Level**	**Averaging Time**
Carbon Monoxide	9 ppm (10 mg/m^3)	8-hour(1)	None	
	35 ppm (40 mg/m^3)	1-hour(1)		
Lead	1.5 µg/m^3	Quarterly Average	Same as Primary	
Nitrogen Dioxide	0.053 ppm (100 µg/m^3)	Annual (Arithmetic Mean)	Same as Primary	
Particulate Matter (PM_{10})	150 µg/m^3	24-hour(2)	Same as Primary	
Particulate Matter ($PM_{2.5}$)	15.0 µg/m^3	Annual(3) (Arithmetic Mean)	Same as Primary	
	35 µg/m^3	24-hour(4)		
Ozone	0.075 ppm (2008 std)	8-hour(5)	Same as Primary	
	0.08 ppm (1997 std)	8-hour(6)		
	0.12 ppm	1-hour(7) (Applies only in limited areas)		
Sulfur Dioxide	0.03 ppm	Annual (Arithmetic Mean)	0.5 ppm (1300 µg/m^3)	3-hour(1)
	0.14 ppm	24-hour(1)		

(1) Not to be exceeded more than once per year.
(2) Not to be exceeded more than once per year on average over 3 years.
(3) To attain this standard, the 3-year average of the weighted annual mean PM2.5 concentrations from single or multiple community-oriented monitors must not exceed 15.0 µg/m^3.
(4) To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35 µg/m^3 (effective December 17, 2006).
(5) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.075 ppm. (effective May 27, 2008)
(6) (a) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.
(b) The 1997 standard-and the implementation rules for that standard-will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard.
(7) (a) The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is < 1.
(b) As of June 15, 2005 EPA revoked the 1-hour ozone standard in all areas except the 8-hour ozone nonattainment Early Action Compact (EAC) Areas.

Table 2.3-2 Tornados Reported in Luzerne County, Pennsylvania

15 TORNADO(s) were reported in Luzerne County, Pennsylvania between 01/01/1950 and 08/31/2007					**Mag:** **Dth:** **Inj:** **PrD:** **CrD:**	Magnitude Deaths Injuries Property Damage Crop Damage		
Pennsylvania								
Location or County	**Date**	**Time**	**Type**	**Mag**	**Dth**	**Inj**	**PrD**	**CrD**
1 Luzerne	07/04/1960	1630	Tornado	F2	0	0	25K	0
2 Luzerne	01/27/1962	0130	Tornado	F1	0	0	250K	0
3 Luzerne	09/10/1968	1345	Tornado	F2	0	0	25K	0
4 Luzerne	06/19/1975	0930	Tornado	F1	0	0	25K	0
5 Luzerne	05/06/1980	1445	Tornado	F0	0	0	3K	0
6 Luzerne	06/21/1981	1530	Tornado	F1	0	0	25K	0
7 Luzerne	07/06/1984	1615	Tornado	F2	0	12	250K	0
8 Luzerne	05/31/1985	2045	Tornado	F1	0	0	250K	0
9 Luzerne	08/10/1986	1845	Tornado	F0	0	0	3K	0
10 Luzerne	09/20/1988	2000	Tornado	F1	0	0	25K	0
11 Bear Creek	04/16/1993	1520	Tornado	F1	0	0	500K	0
12 Duryea	06/22/1996	03:00 PM	Tornado	F0	0	0	200K	0
13 Pittston	05/31/1998	06:00 PM	Tornado	F0	0	0	50K	0
14 Dallas	07/22/2006	11:15 AM	Tornado	F0	0	0	100K	0
15 Hobbie	12/01/2006	04:52 PM	Tornado	F2	0	5	1.0M	0
				TOTALS:	0	17	2.730M	0

Table 2.3-3 Tornadoes Reported in Columbia County, Pennsylvania

8 TORNADO(s) were reported in Columbia County, Pennsylvania between 01/01/1950 and 08/31/2007					**Mag:** **Dth:** **Inj:** **PrD:** **CrD:**	Magnitude Deaths Injuries Property Damage Crop Damage		
Pennsylvania								
Location or County	**Date**	**Time**	**Type**	**Mag**	**Dth**	**Inj**	**PrD**	**CrD**
1 Columbia	03/26/1964	1230	Tornado	F1	0	0	0K	0
2 Columbia	04/17/1982	1550	Tornado	F2	0	1	25K	0
3 Columbia	07/26/1989	1615	Tornado	F1	0	0	25K	0
4 Columbia	07/15/1992	1300	Tornado	F1	0	0	0K	0
5 Bloomsburg	06/27/1994	1245	Tornado	F1	0	0	500K	0
6 Catawissa	05/27/2001	02:25 PM	Tornado	F0	0	0	0	0
7 Jerseytown	04/28/2002	04:55 PM	Tornado	F1	0	0	90K	0
8 Millville	06/17/2004	03:50 PM	Tornado	F1	0	0	0	0
				TOTALS:	0	1	640K	0

Table 2.3-4 Tropical Storms and Hurricanes Passing Within 100 Statute Miles (161 km) of BBNPP, Pennsylvania
(Page 1 of 2)

Rec	YEAR	MONTH	DAY	STORM NAME	WIND SPEED(kts)	PRESSURE(mb)	CATEGORY
1	1878	10	23	NOTNAMED	80	975	H1
2	1878	10	23	NOTNAMED	70	0	H1
3	1885	10	13	NOTNAMED	40	0	E
4	1885	10	14	NOTNAMED	40	0	E
5	1888	8	21	NOTNAMED	45	0	TS
6	1888	8	22	NOTNAMED	40	0	TS
7	1893	8	29	NOTNAMED	55	0	TS
8	1893	8	29	NOTNAMED	55	0	TS
9	1899	11	1	NOTNAMED	50	0	E
10	1899	11	1	NOTNAMED	50	0	E
11	1903	9	16	NOTNAMED	55	0	TS
12	1903	9	17	NOTNAMED	55	0	TS
13	1903	9	17	NOTNAMED	45	0	TS
14	1915	8	4	NOTNAMED	25	0	TD
15	1915	8	4	NOTNAMED	25	0	TD
16	1923	10	24	NOTNAMED	45	0	E
17	1923	10	24	NOTNAMED	40	0	E
18	1923	10	24	NOTNAMED	35	0	E
19	1929	10	3	NOTNAMED	35	0	E
20	1929	10	3	NOTNAMED	30	0	E
21	1933	8	24	NOTNAMED	45	0	TS
22	1933	8	24	NOTNAMED	45	0	TS
23	1933	8	24	NOTNAMED	40	0	TS
24	1939	8	19	NOTNAMED	25	0	TD
25	1939	8	20	NOTNAMED	25	0	TD
26	1939	8	20	NOTNAMED	25	0	TD
27	1943	10	1	NOTNAMED	30	0	TD
28	1945	9	18	NOTNAMED	30	0	E
29	1945	9	19	NOTNAMED	25	0	E
30	1949	8	29	NOTNAMED	40	1000	TS
31	1949	8	29	NOTNAMED	35	1000	TS
32	1952	9	1	ABLE	35	0	TS
33	1954	10	15	HAZEL	80	970	E
34	1954	10	16	HAZEL	70	0	E
35	1955	8	13	CONNIE	45	982	TS
36	1955	8	13	CONNIE	35	995	TS
37	1955	8	18	DIANE	45	1004	TS
38	1955	8	19	DIANE	40	1003	TS
39	1959	10	1	GRACIE	30	0	E
40	1959	10	1	GRACIE	30	0	E
41	1979	9	6	DAVID	40	989	TS
42	1979	9	6	DAVID	40	991	TS
43	1979	9	14	FREDERIC	35	997	TS
44	1988	8	29	CHRIS	20	1010	TD
45	1992	9	26	DANIELLE	35	1010	TS

Table 2.3-4 Tropical Storms and Hurricanes Passing Within 100 Statute Miles (161 km) of BBNPP, Pennsylvania

Rec	YEAR	MONTH	DAY	STORM NAME	WIND SPEED(kts)	PRESSURE(mb)	CATEGORY
46	1994	8	18	BERYL	15	1011	TD
47	1994	8	18	BERYL	15	1010	TD
48	1999	9	7	DENNIS	20	1009	TD
49	1999	9	7	DENNIS	20	1008	TD
50	2006	9	2	ERNESTO	40	1010	E
51	2006	9	3	ERNESTO	35	1012	E
52	2006	9	3	ERNESTO	25	1014	E

E = Extra-tropical
TD = Tropical Depression
TS = Tropical Storm
H1 = Hurricane Category 1

1 knot = 1.15 mph
1 knot = 0.514 m/sec

Table 2.3-5 Total and Average Numbers of Tropical Storms and Hurricanes (1851-2004)

	TROPICAL STORMS[1]		HURRICANES		U.S. HURRICANES	
MONTH	Total	Average	Total	Average	Total	Average
JANUARY-APRIL	5	*	1	*	0	0.00
MAY	18	0.1	4	*	0	0.00
JUNE	76	0.5	28	0.2	19	0.12
JULY	94	0.6	47	0.3	23	0.15
AUGUST	336	2.2	214	1.4	74	0.48
SEPTEMBER	448	2.9	309	2.0	102	0.67
OCTOBER	273	1.8	154	1.0	50	0.33
NOVEMBER	58	0.4	38	0.2	5	0.03
DECEMBER	8	0.1	4	*	0	0.00
YEAR	1316	8.5	799	5.2	273	1.78

[1] Includes subtropical storms after 1967. See Neumann et al. (1999) for details.

* Less than 0.5

Table 2.3-6 Monthly Mean Number of Days with Thunderstorms

SITE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wilkes-Barre/ Scranton, PA	0.2	0.2	0.6	1.9	3.5	5.3	6.3	4.6	2.2	0.9	0.4	0.2	26.3
Allentown, PA	0.3	0.2	0.8	2.0	3.7	5.4	6.0	5.2	2.6	0.8	0.7	0.1	27.8
Williamsport, PA	0.3	0.3	0.8	2.0	4.5	6.3	7.4	5.6	2.9	0.9	0.5	0.3	31.8

Table 2.3-7 Drought Events Reported in Luzerne County, Pennsylvania

Date	Time	Description
09/24/1993	0800	Below normal rainfall during the summer months caused reservoirs in the Upper Deleware Basin to drop significantly. Subsequently, a drought warning was issued on September 24 for the Poconos, Northeast Metropolitan, Lehigh Valley, Southeast and portions of the Lower Susquehanna Valley. Normal and above normal precipitation during September and October did allow the reservoirs to recharge in October.
03/01/ 1995(1)	0000	None provided.
05/01/ 1995(1)	0000	May 1995 was an unseasonably dry month throughout most of Northeast Pennsylvania and parts of the Middle and Lower Susquehanna Valley. Departures from normal exceeded one inch in this area (Close to two inches in Wayne, Luzerne and Lackawanna Counties). Wilkes-Barre Scranton Airport in Avoca had only 1.40 inches of rain during May. Normal is 3.65 inches.
06/01/ 1995(1)	0000	June 1995 continued the trend of drier than normal weather throughout most of eastern Pennsylvania except for the Western Poconos and the Middle and Lower Susquehanna Valleys. Monthly rainfall totals of 30 to 67 percent of normal occurred with the driest weather in Lackawanna, Philadelphia and Wyoming Counties. At Philadelphia International Airport, the monthly rainfall of 0.62 inches was the 5th driest June on record. At the Allentown-Bethlehem-Easton Airport, the 1.44 inches of rain was the 6th driest June on record.
09/01/ 1995(1)	0000	The drought, which entered its thirteenth month, continued unabated throughout Eastern Pennsylvania the first half of September. Rainfall was closer to normal during the second half of the month, especially in the extreme southeast. Consequently Bradford, Bucks, Chester, Delaware, Montgomery and Philadelphia Counties either had normal or above normal rainfall for the month. Most other counties had about 75% of normal rainfall, but precipitation deficiencies of less than 50% of normal (or around two inches below normal for the month) occurred in the Susquehanna Valley in Union, Synder, Perry and Cumberland Counties. The rain came too late to help farmers and by the end of the month, most of Eastern Pennsylvania was under a drought emergency. Harrisburg Pennsylvania set a record for the longest period without measurable precipitation, 28 days, from August 10 through September 7. September started dry and a Drought Warning was declared by the Pennsylvania Department of Environmental Protection for all of Eastern Pennsylvania on the 1st. The warning asked for voluntary conservation of non-essential water use. Tougher, mandatory restrictions were implemented during the first half of the month in some townships in Bucks and Lancaster Counties. In Lancaster County by September 13th about 80 separate brush fires were extinguished. Most were caused by cigarette butts tossed from moving cars, sparks from railroads and fires which burned out of control. Ephrata Township banned all outside burning. On September 14th the Susquehanna River Basin Commission declared a drought warning. On September 15th, the Delaware River Basin Commission declared a drought warning (first since 1993) for all or part of 17 eastern counties within the river's 13,539 square mile drainage basin. Both warnings requested voluntary curbs on non-essential water use. On September 20th, the drought warning was upgraded to a drought emergency for all of Eastern Pennsylvania except Perry, Dauphin, Lebanon, Cumberland, York and Lancaster Counties. It was the first drought emergency declared in Pennsylvania since July 1991. Mandatory restrictions were in place concerning water use on lawns, gardens, golf courses, paved surfaces, water fountains and vehicles. Crop losses caused by the drought were estimated at $300 million statewide. Corn yields averaged 106 bushels per acre versus a normal of 120 bushels per acre. Soybean yields averaged 40 bushels per acre versus a normal of 60 bushels per acre. The late soybean crop was deemed "not worth anything". In alfalfa fields, there were three cuttings instead of four. Also affected by the drought were pumpkins (smaller and matured faster than normal) and Christmas trees (smaller). The lack of water took its toll on livestock also, although the greatest damage was done during the oppressive heat wave in the middle of July.

Table 2.3-7 Drought Events Reported in Luzerne County, Pennsylvania

Date	Time	Description
08/01/1997	12:00 AM	A very dry summer finally culminated in major crop failures come harvest time towards the end of August. Sweet corn and tomatoes, two of the major money making crops for small farmers in northeast Pennsylvania, appeared to suffer some of the worst damage. According to figures from some of the individual farmers themselves and also the Pennsylvania State Agricultural Extension Service, losses nearing 1.5 million dollars were tallied. Financial assistance was granted in many cases. Precipitation figures at the Wikes-Barre Scranton airport and other cooperative sites across the region averaged less than 30% of normal for the period from June 1st to the end of August. At long last, a couple of more significant rainfall events began to ease the situation at the very end of August.
12/01/1998	12:00 AM	December was another very dry month across northeastern Pennsylvania. This culminated a six month period starting back in the early summer of dry conditions. During December, much of the region received between 1.0 and 1.5 inches of liquid equivalent precipitation. This equates to half or less of the normal precipitation for the month. Precipitation totals for the six month period between June and December averaged 6 to 7 inches below climatological normals for the entire region. A drought watch was issued early in the month by the Pennsylvania Department of Environmental Protection. This watch called for voluntary water conservation. The watch was upgraded to a drought warning on the 14th. The Delaware River Basin Commission followed suit with a drought warning issuance for those counties within the Delaware River Basin, including Wayne and Pike. These warnings remained in effect for the remainder of the month and called for a ten percent voluntary reduction in non-essential water usage.
09/01/1999	12:00 AM	A very dry spring and summer caused major crop failures and some wells to run dry. Many streams and rivers were also brought to their lowest recorded levels. The crops most affected were corn and hay, which dealt a major blow to dairy farmers. September rains from the remnants of Hurricanes Dennis and Floyd helped to ease the summertime drought conditions although they came too late to help the vegetable and grain crops.
Note: (1) Considered to be a single contiguous event.		

Table 2.3-8 Drought Events Reported in Columbia County, Pennsylvania

Date	Time	Description
03/01/1995	0000	None provided.
05/01/1995	0000	May 1995 was an unseasonably dry month throughout most of Northeast Pennsylvania and parts of the Middle and Lower Susquehanna Valley. Departures from normal exceeded one inch in this area (Close to two inches in Wayne, Luzerne and Lackawanna Counties). Wilkes-Barre Scranton Airport in Avoca had only 1.40 inches of rain during May. Normal is 3.65 inches.
05/01/1995	0000	Three consecutive months of below normal precipitation culminated in one of the driest springs on record for the Poconos, Middle Susquehanna Valley and parts of the Philadelphia Metropolitan Area. It was the second driest spring on record at Williamsport with only 5.55 inches falling. It was the 5th driest spring on record in Philadelphia with only 6.30 inches falling.
09/01/1995	0000	The drought, which entered its thirteenth month, continued unabated throughout Eastern Pennsylvania the first half of September. Rainfall was closer to normal during the second half of the month, especially in the extreme southeast. Consequently Bradford, Bucks, Chester, Delaware, Montgomery and Philadelphia Counties either had normal or above normal rainfall for the month. Most other counties had about 75% of normal rainfall, but precipitation deficiencies of less than 50% of normal (or around two inches below normal for the month) occurred in the Susquehanna Valley in Union, Synder, Perry and Cumberland Counties. The rain came too late to help farmers and by the end of the month, most of Eastern Pennsylvania was under a drought emergency. Harrisburg Pennsylvania set a record for the longest period without measurable precipitation, 28 days, from August 10 through September 7. September started dry and a Drought Warning was declared by the Pennsylvania Department of Environmental Protection for all of Eastern Pennsylvania on the 1st. The warning asked for voluntary conservation of non-essential water use. Tougher, mandatory restrictions were implemented during the first half of the month in some townships in Bucks and Lancaster Counties. In Lancaster County by September 13th about 80 separate brush fires were extinguished. Most were caused by cigarette butts tossed from moving cars, sparks from railroads and fires which burned out of control. Ephrata Township banned all outside burning. On September 14th the Susquehanna River Basin Commission declared a drought warning. On September 15th, the Delaware River Basin Commission declared a drought warning (first since 1993) for all or part of 17 eastern counties within the river's 13,539 square mile drainage basin. Both warnings requested voluntary curbs on non-essential water use. On September 20th, the drought warning was upgraded to a drought emergency for all of Eastern Pennsylvania except Perry, Dauphin, Lebanon, Cumberland, York and Lancaster Counties. It was the first drought emergency declared in Pennsylvania since July 1991. Mandatory restrictions were in place concerning water use on lawns, gardens, golf courses, paved surfaces, water fountains and vehicles. Crop losses caused by the drought were estimated at $300 million statewide. Corn yields averaged 106 bushels per acre versus a normal of 120 bushels per acre. Soybean yields averaged 40 bushels per acre versus a normal of 60 bushels per acre. The late soybean crop was deemed "not worth anything". In alfalfa fields, there were three cuttings instead of four. Also affected by the drought were pumpkins (smaller and matured faster than normal) and Christmas trees (smaller). The lack of water took its toll on livestock also, although the greatest damage was done during the oppressive heat wave in the middle of July.
10/31/1997	08:00 AM	As the growing season drew to a close, farmers assessed damage from an early season drought. Forty-six counties and their contiguous neighbors were declared agricultural disaster areas by the U.S. Department of Agriculture. Farmers iin all Pennsylvania counties became eligible for disaster relief. Precipitation deficits for the growing season from April through October ranged from -1.6 inches over Cumberland County to a disastrous -8.5 inches over York County. Much of the rain over Cumberland and Mifflin Counties fell during the flash flood of September 11th, too late to be beneficial to crops.

Table 2.3-8 Drought Events Reported in Columbia County, Pennsylvania

Date	Time	Description
12/15/1998	12:01 AM	Abnormally dry conditions through the Fall months developed into drought across all of central Pennsylvania by mid-December. Governor Tom Ridge declared drought emergency conditions in 9 central Pennsylvania counties with drought warnings in others, calling for restrictions on water use and reduced water consumption of 10 to 15 percent. Precipitation departures from normal for the 4 months leading up to the declaration totaled more than 8 inches in a number of locations, with nearly all areas in deficit by more than 4 inches. Bans were placed on outdoor burning as numerous woodland and brush fires occurred across the region.
07/01/1999	12:00 AM	Governor Ridge declared a drought emergency in 55 of the 67 counties of Pennsylvania following extended dry weather through much of the summer. Water usage was restricted. Precipitation deficits for many counties for the months of May through July averaged between 5 and 7 inches. Precipitation departures for the 365 day period ending in mid-July were over 1 foot below normal in many places. This is about one-third of total annual normal precipitation in most areas. Streams were empty, wells dried up, and the Susquehanna River hit record low flows. Hot sunny days combined with the dry weather to take a large toll on crops. Estimates by the Department of Agriculture indicated possible crop losses in excess of $500 million. The figure did not include a 20% decrease in milk production due to the drought that would also result in million dollar losses. There were some counties that experienced 70 to 100% crop loss. At least 30% losses are needed for a drought disaster declaration.
08/01/1999	12:01 AM	A drought emergency remained in effect for 55 of the 67 counties of Pennsylvania. In spite of the severe flash flooding in a few locations and normal or above normal precipitation in many others, water tables remained low and water usage was restricted.

Table 2.3-9 Fifty Knots or Greater High Wind Events in Luzerne County, Pennsylvania

(Page 1 of 2)

Date	Time	Wind Speed knots (m/s)	Type
06/06/1971	1752	76 (39)	Tstm Wind
04/03/1982	1440	60 (31)	Tstm Wind
07/16/1988	1712	50 (26)	Tstm Wind
01/14/1992	0935	64 (33)	Tstm Wind
09/03/1993	1630	52 (27)	Tstm Wind
05/24/1995	1924	56 (29)	Tstm Wind
07/18/1997	04:35 PM	55 (28)	Tstm Wind
02/17/1998	04:00 PM	55 (28)	High Wind
05/31/1998	05:15 PM	175 (90)	Tstm Wind/hail
09/07/1998	11:10 AM	65 (33)	Tstm Wind
07/09/1999	09:55 PM	50 (26)	Tstm Wind
05/18/2000	04:00 PM	65 (33)	Tstm Wind
06/02/2000	04:18 PM	55 (28)	Tstm Wind
12/12/2000	05:00 AM	52 (27)	High Wind
04/09/2001	06:50 PM	52 (27)	Tstm Wind
04/09/2001	06:50 PM	52 (27)	Tstm Wind
05/27/2001	05:00 PM	80 (41)	Tstm Wind
07/01/2001	01:50 PM	55 (28)	Tstm Wind
07/10/2001	03:10 PM	50 (26)	Tstm Wind
03/09/2002	11:25 PM	60 (31)	Tstm Wind
07/21/2003	04:50 PM	55 (28)	Tstm Wind
07/21/2003	05:10 PM	55 (28)	Tstm Wind
09/19/2003	05:00 AM	50 (26)	High Wind
10/15/2003	12:00 PM	60 (31)	High Wind
11/13/2003	12:00 PM	58 (30)	High Wind
08/20/2004	03:00 PM	60 (31)	Tstm Wind
11/25/2004	08:00 AM	60 (31)	Tstm Wind
06/06/2005	12:20 PM	50 (26)	tstm Wind
06/09/2005	03:00 PM	75 (39)	Tstm Wind
07/13/2005	03:25 PM	50 (26)	Tstm Wind
08/12/2005	04:25 PM	50 (26)	Tstm Wind
08/14/2005	05:40 PM	50 (26)	Tstm Wind
11/06/2005	05:45 PM	50 (26)	Tstm Wind
11/06/2005	06:04 PM	57 (29)	Tstm Wind
11/06/2005	06:12 PM	50 (26)	Tstm Wind
11/09/2005	04:30 PM	50 (26)	Tstm Wind
11/29/2005	06:00 AM	50 (26)	Strong Wind
02/17/2006	09:25 AM	57 (29)	Tstm Wind
07/02/2006	03:35 PM	50 (26)	Tstm Wind
08/03/2006	03:35 PM	50 (26)	Tstm Wind
12/01/2006	03:00 PM	51 (26)	High Wind
12/01/2006	04:45 PM	55 (28)	Tstm Wind
12/01/2006	04:50 PM	66 (34)	Tstm Wind
12/01/2006	04:55 PM	57 (29)	Tstm Wind
06/08/2007	1:15 PM	50 (26)	Tstm Wind

Table 2.3-9 Fifty Knots or Greater High Wind Events in Luzerne County, Pennsylvania

(Page 2 of 2)

Date	Time	Wind Speed knots (m/s)	Type
06/19/2007	16:34 PM	50 (26)	Tstm Wind
06/19/2007	16:55 PM	50 (26)	Tstm Wind
06/19/2007	17:05 PM	50 (26)	Tstm Wind
06/27/2007	17:30 PM	52 (27)	Tstm Wind
07/27/2007	16:15 PM	52 (27)	Tstm Wind
08/07/2007	23:35 PM	50 (26)	Tstm Wind
08/25/2007	18:20 PM	50 (26)	Tstm Wind

Wind speed conversion: 1 knot = 1.15 mph = 0.515 mps

Table 2.3-10 Winds Greater than 75 mph and Less than 124 mph in Luzerne County, Pennsylvania

Date	Time	Wind Speed knots (m/s)	Type
06/06/1971	1752	76 (39)	Tstm Wind
05/27/2001	05:00 PM	80 (41)	Tstm Wind
06/09/2005	03:00 PM	75 (39)	Tstm Wind
12/01/2006	16:50 PM	66 (34)	Tstm Wind

Wind speed conversion: 1 knot = 1.15 mph = 0.515 mps

Table 2.3-11 Fifty Knots or Greater High Wind Events in Columbia County, Pennsylvania

(Page 1 of 2)

Date	Time	Wind Speed knots (m/s)	Type
04/17/1982	1645	60 (31)	Tstm Wind
09/23/1986	1245	52 (27)	Tstm Wind
04/23/1996	03:15 PM	52 (27)	Tstm Wind
05/03/1997	03:45 PM	51 (26)	Tstm Wind
05/06/1997	09:05 AM	51 (26)	Tstm Wind
05/19/1997	07:15 PM	51 (26)	Tstm Wind
07/18/1997	04:15 PM	51 (26)	Tstm Wind
07/18/1997	04:20 PM	51 (26)	Tstm Wind
08/16/1997	02:20 PM	51 (26)	Tstm Wind
05/29/1998	04:45 PM	51 (26)	Tstm Wind
05/31/1998	08:30 PM	51 (26)	Tstm Wind
06/02/1998	05:10 PM	51 (26)	Tstm Wind
06/16/1998	06:10 PM	51 (26)	Tstm Wind
06/16/1998	07:56 PM	51 (26)	Tstm Wind
06/16/1998	08:15 PM	51 (26)	Tstm Wind
06/30/1998	04:20 PM	51 (26)	Tstm Wind
07/17/1998	03:40 PM	51 (26)	Tstm Wind
08/25/1998	09:15 PM	51 (26)	Tstm Wind
09/16/1999	04:00 PM	60 (31)	High Wind
09/29/1999	08:00 PM	60 (31)	High Wind
04/09/2000	06:00 AM	58 (30)	High Wind
06/30/2001	07:30 PM	50 (26)	Tstm Wind
07/01/2001	02:30 PM	50 (26)	Tstm Wind
07/17/2001	04:00 PM	50 (26)	Tstm Wind
08/28/2001	02:30 PM	50 26)	Tstm Wind
10/16/2001	04:10 PM	50 (26)	Tstm Wind
03/09/2002	07:30 PM	50 (26)	High Wind
03/09/2002	11:05 PM	50 (26)	Tstm Wind
07/18/2003	05:05 PM	50 (26)	Tstm Wind
07/21/2003	04:55 PM	50 (26)	Tstm Wind
11/13/2003	05:00 AM	71 (37)	High Wind
05/26/2004	05:08 PM	50 (26)	Tstm Wind
06/17/2004	04:32 PM	50 (26)	Tstm Wind
11/25/2004	07:30 AM	50 26)	Tstm Wind
06/06/2005	12:05 PM	60 (31)	Tstm Wind
06/06/2005	12:10 PM	50 (26)	Tstm Wind
06/06/2005	12:30 PM	50 (26)	Tstm Wind
06/06/2005	12:50 PM	50 26)	Tstm Wind
07/13/2005	03:20 PM	75 (39)	Tstm Wind
07/13/2005	04:26 PM	50 (26)	Tstm Wind
07/13/2005	04:45 PM	50 (26)	Tstm Wind
07/26/2005	08:30 PM	50 (26)	Tstm Wind
07/27/2005	02:00 PM	50 (26)	Tstm Wind
11/06/2005	05:40 PM	50 (26)	Tstm Wind

Table 2.3-11 Fifty Knots or Greater High Wind Events in Columbia County, Pennsylvania

(Page 2 of 2)

Date	Time	Wind Speed knots (m/s)	Type
05/30/2006	09:30 PM	50 (26)	Tstm Wind
06/22/2006	08:10 PM	50 (26)	Tstm Wind
08/26/2006	12:10 AM	50 (26)	Tstm Wind
12/01/2006	16:32 PM	50 (26)	Tstm Wind
06/08/2007	20:40 PM	50 (26)	Tstm Wind
06/12/2007	17:05 PM	50 (26)	Tstm Wind
06/12/2007	17:15 PM	50 (26)	Tstm Wind
06/27/2007	12:30 PM	50 (26)	Tstm Wind
06/27/2007	17:25 PM	50 (26)	Tstm Wind
08/17/2007	12:40 PM	50 (26)	Tstm Wind
08/25/2007	16:05 PM	50 (26)	Tstm Wind
08/25/2007	17:45 PM	50 (26)	Tstm Wind

Wind speed conversion: 1 knot = 1.15 mph = 0.515 mps

Table 2.3-12 Winds Greater than 75 mph and Less than 124 mph in Columbia County, Pennsylvania

Date	Time	Wind Speed knots (m/s)	Type
11/13/2003	05:00 AM	71 (37)	High Wind
07/13/2005	03:20 PM	75 (39)	Tstm Wind

Wind speed conversion: 1 knot = 1.15 mph = 0.515 mps

Table 2.3-13 Hail Events in Luzerne County, Pennsylvania

Location or County	Date	Time	Type	Diameter inches mm
1 LUZERNE	06/10/1958	1728	Hail	1 25.4
2 LUZERNE	06/10/1958	1728	Hail	1 25.4
3 LUZERNE	06/06/1971	1655	Hail	1.75 44
4 LUZERNE	06/06/1971	1735	Hail	1 25.4
5 LUZERNE	07/03/1975	1100	Hail	1.75 44
6 LUZERNE	07/03/1975	1145	Hail	0.75 19
7 LUZERNE	06/29/1976	1630	Hail	1.75 44
8 LUZERNE	06/30/1976	0940	Hail	1.75 44
9 LUZERNE	06/24/1985	1030	Hail	0.75 19
10 LUZERNE	06/24/1985	1030	Hail	2.75 70
11 LUZERNE	06/24/1985	1130	Hail	2.75 70
12 LUZERNE	07/12/1985	1653	Hail	1 25.4
13 LUZERNE	06/30/1990	1830	Hail	1.75 44
14 Mountaintop	08/27/1994	1450	Hail	1 25.4
15 Mountain Top	06/14/1995	1450	Hail	1 25.4
16 Mountaintop Plymouth	07/06/1995	1715	Hail	Not listed
17 Plymouth And Mountain	07/15/1995	1615	Hail	1 25.4
18 Shavertown	05/31/1998	05:15 PM	Tstm Wind/hail	Not listed
19 Dorrance	05/24/2000	02:15 PM	Hail	1.75 44
20 Huntsville	07/10/2001	03:15 PM	Hail	1 25.4
21 Plymouth	07/10/2001	03:30 PM	Tstm Wind/hail	Not listed
22 Nanticoke	07/11/2001	03:40 AM	Hail	1.75 44.
23 Plymouth	07/11/2001	03:40 AM	Tstm Wind/hail	Not listed
24 Wilkes Barre	11/25/2001	04:30 PM	Tstm Wind/hail	Not listed
25 White Haven	05/11/2003	06:55 PM	Hail	0.75 19
26 Wilkes Barre	08/16/2003	12:30 PM	Hail	0.75 19

Table 2.3-13 Hail Events in Luzerne County, Pennsylvania

Location or County	Date	Time	Type	Diameter inches mm
27 Dallas	05/24/2004	02:30 PM	Hail	1 25.4
28 Nescopeck	06/06/2005	12:30 PM	Hail	0.75 19
29 Nanticoke	04/24/2006	04:15 AM	Hail	0.88 22
30 White Haven	05/30/2006	03:45 PM	Hail	0.75 19
31 West Wyoming	06/09/2006	04:53 PM	Hail	0.88 22
32 Hughestown	06/09/2006	05:00 PM	Hail	0.75 19
33 Hughestown	06/09/2006	05:05 PM	Hail	0.88 22
34 Hazleton	07/09/2006	06:25 PM	Hail	0.75 19
35 Hazleton	07/09/2006	06:56 PM	Hail	0.88 22
36 Mtn Top	07/09/2006	07:02 PM	Hail	0.75 19
37 Hazleton	07/09/2006	07:20 PM	Hail	0.88 22
38 West Hazleton	07/11/2006	09:21 PM	Hail	0.75 19
39 Harveys Lake	05/31/2007	14:05 PM	Hail	0.75 19
40 Wilkes Barre	07/06/2007	17:30 PM	Hail	0.75 19
41 Conyngham	08/17/2007	12:55 PM	Hail	0.75 19
42 Hazleton Municipal Airport	8/17/2007	13:00 PM	Hail	0.88 22
43 Jeanesville	08/17/2007	13:00 PM	Hail	0.75 19
44 Jeanesville	08/17/2007	13:05 PM	Hail	1.75 44
45 Jeanesville	08/17/2007	13:18 PM	Hail	1.25 32

Table 2.3-14 Hail Events in Columbia County, Pennsylvania

Location or County	Date	Time	Type	Diameter inches mm
1 COLUMBIA	07/11/1980	1800	Hail	1.75 44
2 COLUMBIA	07/19/1983	1235	Hail	2.75 70
3 COLUMBIA	08/01/1986	1615	Hail	2.00 51
4 COLUMBIA	07/23/1991	1300	Hail	1 25.4
5 COLUMBIA	07/15/1992	1255	Hail	2.00 51
6 Orangeville	07/06/1994	1725	Hail	0.75 19
7 Bloomsburg	08/27/1994	1629	Hail	1 25.4
8 Bloomsburg	04/04/1995	1055	Hail	0.75 19.
9 Centralia	05/11/1996	02:05 PM	Hail	1.75 44
10 Centralia	06/02/1998	08:45 PM	Hail	0.75 19
11 Jerseytown	09/07/1998	10:41 AM	Hail	0.88 22
12 Benton	05/10/2000	11:10 AM	Hail	1 25.4
13 Stillwater	05/24/2000	01:45 PM	Hail	0.75 19
14 Millville	07/21/2000	02:15 PM	Hail	1.25 32
15 Millville	06/20/2001	02:15 PM	Hail	1 25.4
16 Waller	09/13/2001	05:35 PM	Hail	1.75 44
17 Millville	09/13/2001	06:15 PM	Hail	0.75 19
18 Numidia	05/26/2004	05:25 PM	Hail	0.75 19
19 Millville	06/17/2004	03:40 PM	Hail	0.88 22
20 Bloomsburg	07/14/2004	02:54 PM	Hail	0.75 19
21 Central	08/12/2005	04:15 PM	Hail	1 25.4
22 Numidia	05/30/2006	05:59 PM	Hail	1 25.4
23 Bloomsburg	06/13/2007	13:55 PM	Hail	0.75 19
24 Bloomsburg	06/19/2007	16:40 PM	Hail	0.75 19

Table 2.3-14 Hail Events in Columbia County, Pennsylvania

Location or County	Date	Time	Type	Diameter inches mm
25 Millville	08/17/2007	12:43 PM	Hail	0.88 22
26 Bloomsburg	08/17/2007	13:16 PM	Hail	1 25.4
27 Bloomsburg	08/25/2007	16:00 PM	Hail	0.75 19
28 Orangeville	08/30/2007	16:35 PM	Hail	0.88 22

Table 2.3-15 Ice Storm Events in Luzerne County, Pennsylvania

Location or County	Start Date and time	End Date and Time	Ice Thickness
PAZ038>040 - 043>044 - 047>048	01/02/1999 05:00 PM	01/03/1999 09:00 AM	Not listed
PAZ038>040 - 043>044 - 047>048	01/13/1999 08:00 PM	01/15/1999 11:00 AM	Not listed
PAZ038>040 - 043>044 - 047>048	02/13/2000 05:00 PM	02/14/2000 03:00 PM	Up to 0.25 inches 6.35 mm
PAZ040 - 043>044 - 047>048	12/13/2000 11:00 PM	12/14/2000 10:00 AM	0.25 to 0.5 inches 6.35 to 12.7 mm
PAZ038>040 - 043>044 - 047>048	02/24/2001 11:00 PM	02/25/2001 12:00 PM	Not listed
PAZ038>040 - 043>044 - 047>048	01/31/2002 01:00 AM	01/31/2002 11:59 PM	Up to 0.25 inches 6.35 mm
PAZ038>040 - 043>044 - 047>048	02/01/2002 12:00 AM	02/01/2002 12:00 PM	Up to 0.25 inches 6.35 mm
PAZ038>040 - 043>044 - 047>048	12/11/2002 08:00 AM	12/12/2002 08:00 AM	Up to 0.5 inches 12.7 mm
PAZ038>040 - 043>044 - 047>048 - 072	01/06/2005 02:00 AM	01/06/2005 02:00 PM	Up to 0.25 inches 6.35 mm
PAZ038>040 - 043>044 - 047>048 - 072	10/25/2005 11:00 AM	10/25/2005 10:00 PM	Not listed
PAZ040 - 043>044 - 047>048 - 072	12/16/2005 06:00 AM	12/16/2005 08:00 AM	Up to 0.5 inches 12.7 mm
PAZ038>040 - 043>044 - 047>048 - 072	02/13/2007 03:00 PM	02/14/2007 21:00 PM	Not listed
PAZ038>040 - 043>044 - 047	04/15/2007 01:00 AM	04/16/2007 19:00 PM	Not listed

Table 2.3-16 Ice Storm Events in Columbia County, Pennsylvania

Location or County	Start Date and time	End Date and Time	Ice Thickness
PAZ037>047 - 049>054 - 056>059	11/27/1994 1500 PM	11/27/1994 2130 PM	Not listed
PAZ037>043 - 045 - 046 - 048>053 - 058	12/09/1994 1300 PM	12/09/1994 2100 PM	Not listed
PAZ037>055 - 058 - 060>062	12/31/1994 1445 PM	01/01/1995 0500	Not listed
PAZ045 - 046 - 048>055 - 058 - 060>062	01/06/1995 1900 PM	01/07/1995 0500 AM	Not listed
PAZ037>043 - 045 - 046 - 049>055 - 058 - 060>062	01/11/1995 1900 PM	01/12/1995 0400 AM	Not listed
PAZ037>055 - 058 - 060>062	01/31/1995 1445 PM	02/01/1995 0500 AM	Not listed
PAZ037>039 - 041>053 - 056 - 057 - 059 - 063>071	02/15/1995 0900 AM	02/15/1995 2100 PM	Not listed
PAZ045 - 046 - 049 - 053>059 - 063>066	02/26/1995 2200 PM	02/27/1995 0400 AM	Not listed
PAZ037>039 - 041 - 042 - 045 - 046 - 049>053	02/27/1995 1000 AM	02/28/1995 0500 AM	Not listed
PAZ004 - 005 - 006 - 010 - 011 - 012 - 017>019 - 024>028 - 033>037 - 041 - 042 - 045 - 046 - 049>053 - 056 - 063	11/14/1995 0600 AM	Not provided	Not listed
PAZ004 - 005 - 006 010 - 011 - 012 017>019 - 024>028 - 033>037 - 041 - 042 - 045 - 046 - 049>053 - 056 - 063	12/19/1995 0500 AM	12/20/1995 0300 AM	Not listed
PAZ017>019 - 024 - 026>028 - 036>037 - 041>042 - 045 - 049>053 - 056>059 - 063>066	02/13/1997 12:00 PM	02/13/1997 12:00 PM	Not listed
PAZ005>006 - 010>012 - 017>019 - 024>028 - 033>037 - 041>042 - 045>046 - 049>053 - 056>059 - 063>066	01/15/1998 04:00 PM	01/15/1998 0400 AM	Up to 0.25 inches 6.35 mm
PAZ006 - 012 - 018>019 - 037 - 041>042 - 045>046 - 049>053	01/22/1998 10:00 PM	01/22/1998 10:00 PM	Not listed
PAZ004>006 - 010>012 - 017>019 - 024>028 - 033>037 - 041>042 - 045>046 - 049>053 - 056>059 - 063>066	01/02/1999 11:00 PM	01/02/1999 11:00 PM	Not listed
PAZ004>006 - 010>012 - 017>019 - 024>028 - 033>037 - 041>042 - 045>046 - 049>053 - 056>059 - 063>066	01/08/1999 08:00 PM	01/08/1999 08:00 PM	Not listed
PAZ004>006 - 010>012 - 017>019 - 024>028 - 033>037 - 041>042 - 045>046 - 049>053 - 056>059 - 063>066	01/14/1999 06:00 AM	01/14/1999 06:00 AM	Not listed
PAZ005>006 - 010>012 - 018>019 - 025>028 - 037 - 041>042 - 045>046 - 049>053 - 056>059 - 064>066	02/13/2000 06:00 PM	02/14/2000 08:00 AM	Not listed
PAZ005>006 - 010>012 - 017>019 - 024>028 - 033>037 - 041>042 - 045>046 - 049>053 - 056>059 - 063>066	02/18/2000 08:00 AM	02/19/2000 08:00 AM	Not listed
PAZ004>006 - 010>012 - 017>019 - 024>028 - 033>037 - 041>042 - 045>046 - 049>053 - 056>059 - 063>066	12/13/2000 10:00 PM	12/14/2000 10:00 AM	Up to 0.25 inches 6.35 mm
PAZ004>006 - 010>012 - 017>019 - 024>028 - 033>037 - 041>042 - 045>046 - 049>053 - 056>059 - 063>066	12/10/2002 08:00 AM	12/11/2002 10:00 PM	0.25 to 0.5 inches 6.35 to 12.7 mm
PAZ005>006 - 010>012 - 041>042 - 045>046 - 053	01/01/2003 03:00 AM	01/02/2003 08:00 PM	Not listed for Columbia County

Table 2.3-16 Ice Storm Events in Columbia County, Pennsylvania

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Location or County	Start Date and time	End Date and Time	Ice Thickness
PAZ004>005 - 010>011 - 017>019 - 024>028 - 033>036 - 042 - 049>053 - 056>059 - 063>066	02/06/2004 05:00 AM	02/06/2004 03:00 PM	0.25 to 0.5 inches 6.35 to 12.7 mm
PAZ004>006 - 010>012 - 017>019 - 024>028 - 034 - 037 - 041>042 - 045>046 - 049>053 - 058	01/05/2005 10:00 PM	01/06/2005 10:00 AM	Not listed for Columbia County
PAZ012 - 018 - 028 - 041>042 - 053 - 058	01/08/2005 01:00 AM	01/08/2005 03:50 AM	Up to 0.25 inches 6.35 mm
PAZ004>006 - 010>012 - 017>019 - 024>025 - 033 - 037 - 041>042 - 053 - 057>059 - 065>066	01/22/2005 12:00 PM	01/23/2005 07:00 AM	Not listed
PAZ004>006 - 010>012 - 017>019 - 024>028 - 033>037 - 041>042 - 045>046 - 049>053 - 056 - 058 - 063>064	12/16/2005 03:00 AM	12/16/2005 09:00 AM	0.25 inches or more 6.35 mm or more
PAZ046 - 053	02/13/2007 11:00 AM	02/14/2007 2100 PM	Not listed

Table 2.3-17 Snow Storm Events in Luzerne County, Pennsylvania

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Location or County	Date	Snow Amount
PAZ037>055 - 058 - 060>062	02/03/1995	5 to 8 inches 127 to 203 mm
LUZERNE	02/06/1995	< 1 inch < 25.4 mm
PAZ037>056 - 058 - 063 - 064	03/08/1995	5 inches 127 mm
PAZ038>040 - 043 - 044 - 047 - 048	11/14/1995	6 to 12 inches 152 to 305 mm
PAZ038>040 - 043>044 - 047>048	01/02/1996	8 to 12 inches 203 to 305 mm
PAZ038>040 - 043>044 - 047>048	01/07/1996	Up to 21 inches 533 mm
PAZ038>040 - 043>044 - 047>048	01/12/1996	8 to 12 inches 203 to 305 mm
PAZ038>040 - 043>044 - 047>048	03/06/1996	6 to 10 inches 152 to 254 mm
PAZ039>040 - 043>044 - 047>048	03/31/1997	12 to 30 inches 305 to 762 mm
PAZ038>040 - 043>044 - 047>048	12/29/1997	6 to 14 inches 152 to 356 mm
PAZ038>040 - 043>044 - 047>048	02/23/1998	4 to 12 inches 102 to 305 mm
PAZ038>040 - 043>044 - 047>048	01/02/1999	< 1 inch < 25.4 mm
PAZ038>040 - 043>044 - 047>048	01/13/1999	5 to 9 inches 127 to 229 mm
PAZ040 - 044 - 047>048	03/14/1999	7 to 10 inches 178 to 254 mm
PAZ038>040 - 043>044 - 047	03/21/1999	6 to 12 inches 152 to 305 mm
PAZ038>040 - 043>044 - 047>048	01/20/2000	2 to 5 inches 51 to 127 mm
PAZ038>040 - 043>044 - 047>048	01/25/2000	5 to12 inches 127 to 305 mm
PAZ038>040 - 043>044 - 047>048	01/30/2000	10 to 18 inches 254 to 457 mm
PAZ038>040 - 043>044 - 047>048	02/18/2000	4 to 7 inches 102 to 178 mm
PAZ039>040 - 043>044 - 047>048	04/08/2000	4 to 8 inches 102 to 203 mm
PAZ040 - 043>044 - 047>048	12/13/2000	Up to 3 inches Up to 76 mm
PAZ039>040 - 044 - 047	12/19/2000	4 to 7 inches 102 to 178 mm
PAZ040 - 044 - 047>048	01/20/2001	4 to 7 inches 102 to 178 mm
PAZ039>040 - 043>044 - 047>048	02/05/2001	4 to 8 inches 102 to 203 mm

Table 2.3-17 Snow Storm Events in Luzerne County, Pennsylvania
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Location or County	Date	Snow Amount
PAZ038>040 - 043>044 - 047>048	03/04/2001	6 to 20 inches 152 to 508 mm
PAZ038>040 - 043>044 - 047>048	01/06/2002	7 to 15 inches 178 to 381 mm
PAZ038>040 - 043>044 - 047>0468	01/31/2002	2 inches 51 mm
PAZ038>040 - 043>044 - 047>048	02/01/2002	2 inches 51 mm
PAZ040 - 043>044 - 047>048	12/05/2002	6 to 10 inches 152 to 254 mm
PAZ038>040 - 043>044 - 047>048	12/11/2002	Up to 2 inches 51 mm
PAZ038>040 - 043>044 - 047>048	12/24/2002	9 to 14 inches 229 to 356 mm
PAZ038>040 - 043>044 - 047>048	01/03/2003	4 to 9 inches 102 to 229 mm
PAZ038>040 - 043>044 - 047>048	02/17/2003	10 to 20 inches 254 to 508 mm
PAZ038>040 - 043>044 - 047>048	12/06/2003	5 to 9 inches 127 to 229 mm
PAZ038>040 - 043>044 - 047 - 072	03/16/2004	5 to 9 inches 127 to 229 mm
PAZ038>040 - 043>044 - 047>048 - 072	01/06/2005	3 to 7 inches 76 to 178 mm
PAZ038>040 - 043>044 - 047>048 - 072	01/23/2005	6 to 12 inches 152 to 305 mm
PAZ038>040 - 043>044 - 047>048 - 072	03/01/2005	8 to 14 inches 203 to 356 mm
PAZ038>040 - 043>044 - 047>048 - 072	03/24/2005	6 to 8 inches 152 to 203 mm
PAZ038>040 - 043>044 - 047>048 - 072	10/25/2005	Up to 2 inches Up to 51 mm
PAZ039>040 - 043>044 - 047>048 - 072	12/09/2005	6 to 10 inches 152 to 254 mm
PAZ038>040 - 043>044 - 047>048 - 072	02/13/2007	12 to 24 inches 305 to 610 mm
PAZ039>040 - 043>044 - 047>048 - 072	03/16/2007	10 to 15 inches 254 to 381 mm
PAZ038>040 - 043>044 - 047	04/15/2007	Up to 2 inches Up to 51 mm

Table 2.3-18 Snow Storm Events in Columbia County, Pennsylvania

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Location or County	Date	Snow Amount
PAZ045 - 046 - 048>055 - 058 - 060>062	01/06/1995	Not listed
PAZ037>043 - 045 - 046 - 049>055 - 058 - 060>062	01/11/1995	< 1 inch < 25.4 mm
PAZ037>055 - 058 - 060>062	02/03/1995	5 to 8 inches 127 to 203 mm
PAZ037>056 - 058 - 063 - 064	03/08/1995	3 to 5 inches 76 to 127mm
PAZ42 - 053 - 065	11/11/1995	4 to 5 inches 102 to 127 mm
PAZ004 - 005 - 006 - 010 - 011 - 012 - 017>019 - 024>028 - 033>037 - 041 - 042 - 045 - 046 - 049>053 - 056 - 063	11/14/1995	Not listed for Columbia County
PAZ004 - 005 - 006 010 - 011 - 012 017>019 - 024>028 - 033>037 - 041 - 042 - 045 - 046 - 049>053 - 056 - 063	12/19/1995	17 inches 432 mm
PAZ004>006 - 010>011 - 018>019 - 037 - 041>042 - 045>046 - 049>050 - 052>053	01/02/1996	6 to 10 inches 152 to 254 mm
PAZ019 - 026>028 - 035>036 - 041>042 - 046 - 049>053 - 056>059 - 063>066	01/12/1996	Not listed for Columbia County
PAZ005>006 - 010>012 - 017>019 - 037 - 041>042 - 045>046 - 049>053	03/07/1996	6 inches 152 mm
PAZ017>019 - 024 - 026>028 - 036>037 - 041>042 - 045 - 049>053 - 056>059 - 063>066	02/13/1997	3 to 7 inches 76 to 178 mm
PAZ006 - 011>012 - 018>019 - 024 - 026>028 - 033 - 035>037 - 041>042 - 045>046 - 049>053 - 058	12/29/1997	8 to 14 inches 127 to 356 mm
PAZ006 - 011>012 - 017 - 019 - 024 - 028 - 033 - 037 - 041>042 - 049>050 - 053 - 058	02/23/1998	2 inches 51 mm
PAZ004>006 - 010>012 - 017>019 - 024>028 - 033>037 - 041>042 - 045>046 - 049>053 - 056>059 - 063>066	01/02/1999	1 to 4 inches 25.4 to 102 mm
PAZ004>006 - 010>012 - 017>019 - 024>028 - 033>037 - 041>042 - 045>046 - 049>053 - 056>059 - 063>066	01/08/1999	Not listed for Columbia County
PAZ004>006 - 010>012 - 017>019 - 024>028 - 033>037 - 041>042 - 045>046 - 049>053 - 056>059 - 063>066	01/14/1999	3 to 6 inches 76 to 152 mm
PAZ041>042 - 046 - 053	02/07/1999	6 inches 152 mm
PAZ018>019 - 024>028 - 033>036 - 049>053 - 056>059 - 063>066	03/14/1999	6 inches 152 mm
PAZ028 - 036 - 041>042 - 046 - 049>053 - 056>059 - 063>066	01/25/2000	Not listed for Columbia County
PAZ012 - 018>019 - 024>028 - 034>036 - 041>042 - 045>046 - 049>053 - 056>059 - 063>066	01/30/2000	10 to 12 inches 254 to 305 mm
PAZ005>006 - 010>012 - 017>019 - 024>028 - 033>037 - 041>042 - 045>046 - 049>053 - 056>059 - 063>066	02/18/2000	4 to 7 inches 102 to 178 mm
PAZ004>006 - 010>012 - 017>019 - 024>028 - 033>037 - 041>042 - 045>046 - 049>053 - 056>059 - 063>066	12/13/2000	1 to 2 inches 25.4 to 51 mm
PAZ024 - 033 - 036 - 042 - 051 - 053 - 058>059 - 064>066	01/20/2001	5 to 8 inches 127 to 203 mm
PAZ004>006 - 010>012 - 017>019 - 024>028 - 033>037 - 041>042 - 045>046 - 049>053 - 056>058 - 063>064	03/04/2001	12 to 15 inches 305 to 381 mm
PAZ005>006 - 010>012 - 017>019 - 024>028 - 033>037 - 041>042 - 045>046 - 049>053 - 056>059 - 063>065	01/06/2002	10 to 14 inches 254 to 356 mm

Table 2.3-18 Snow Storm Events in Columbia County, Pennsylvania

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Location or County	Date	Snow Amount
PAZ004>006 - 010>012 - 017>019 - 024>028 - 033>037 - 041>042 - 045>046 - 049>053 - 056>059 - 063>066	12/05/2002	5 to 8 inches 127 to 203 mm
PAZ004>006 - 010>012 - 017>019 - 024>028 - 033>037 - 041>042 - 045>046 - 049>053 - 056>059 - 063>066	12/25/2002	12 to 18 inches 305 to 457 mm
PAZ006 - 012 - 017>019 - 024>025 - 033 - 037 - 041>042 - 045>046 - 049 - 051 - 053	01/02/2003	6 to 8 inches 152 to 203 mm
PAZ012 - 017>019 - 024>028 - 033>037 - 041>042 - 045>046 - 049>053 - 056>059 - 063>066	02/16/2003	4 to 10 inches 102 to 254 mm
PAZ017>019 - 024>028 - 033>036 - 053 - 056>059 - 063>066	12/05/2003	6 to 12 inches 152 to 305 mm
PAZ017 - 024 - 033 - 042 - 046 - 051>053	01/27/2004	5 to 8 inches 127 to 203 mm
PAZ004>006 - 010>012 - 017>019 - 027>028 - 037 - 041>042 - 045>046 - 049>053 - 058	03/16/2004	6 to 8 inches 152 to 203 mm
PAZ018>019 - 027>028 - 049>053 - 056>058 - 063	03/19/2004	5 to 8 inches 127 to 203 mm
PAZ004>006 - 010>012 - 017>019 - 024>028 - 034 - 037 - 041>042 - 045>046 - 049>053 - 058	01/05/2005	6 to 10 inches 152 to 254 mm
PAZ004>006 - 010>012 - 017>019 - 024>025 - 033 - 037 - 041>042 - 053 - 057>059 - 065>066	01/22/2005	5 to 7 inches 127 to 178 mm
PAZ010>012 - 017>019 - 024 - 028 - 033 - 041>042 - 045>046 - 049>053 - 056>059 - 063>066	03/01/2005	6 to 8 inches 152 to 203 mm
PAZ012 - 017>019 - 024>028 - 033>036 - 041>042 - 045>046 - 049>053 - 056>059 - 063>066	12/09/2005	6 to 10 inches 152 to 254 mm
PAZ004>006 - 010>012 - 017>019 - 024>028 - 033>037 - 041>042 - 045>046 - 049>053 - 056 - 058 - 063>064	12/16/2005	3 to 6 inches 76 to 152 mm
PAZ046 - 053	02/13/2007	10 to 11 inches 254 to 279 mm
PAZ017>019 - 027>028 - 049>053 - 056>059 - 063	03/16/2007	6 to 12 inches 152 to 305 mm

Table 2.3-19 Probable Maximum Winter Precipitation (PMWP) Values

duration hours	PMWP depth inches	
	Jan-Feb	Dec
6	8	10
24	13	15
72	16	19

Table 2.3-20 Design-Basis Tornado Characteristics for BBNPP

Region	Maximum Wind Speed m/s (mi/h)	Translational Speed m/s (mi/h)	Maximum Rotational Speed m/s (mi/h)	Radius of Maximum Rotational Speed m (ft)	Pressure Drop mb (psi)	Rate of Pressure Drop mb/s (psi/s)
I	103 (230)	21 (46)	82 (184)	45.7 (150)	83 (1.2)	37 (0.5)

Table 2.3-21 Annual Heating and Humidification Design Conditions for Wilkes-Barre/ Scranton, Pennsylvania

Annual Heating and Humidification Design Conditions														
Coldest month	Heating DB		Humidification DP/MCDB and HR						Coldest month WS/MCDB					
			99.6%			99%			0.4%		1%			
	99.6%	99%	DP	HR	MCDB	DP	HR	MCDB	WS	MCDB	WS	MCDB	MCWS	PCWD
2	3a	3b	4a	4b	4c	4d	4e	4f	5a	5b	5c	5d	6a	6b
1	2.9	7.6	-8.5	3.6	5.0	-3.7	4.7	9.6	24.9	32.5	22.6	27.9	8.3	240

Notes:
DB- Dry bulb temperature, °F
WS- Wind speed, mph
MCDB- Mean coincident dry bulb temperature, °F
MCWS- Mean coincident wind speed, mph
DP- Dew point temperature °F
MCDP- Mean coincident dew point temperature, °F
PCWD- Prevailing coincident wind direction, °, 0= North, 90= East
HR- Humidity ratio, grains of moisture per lb of dry air

Table 2.3-22 Zero Percent Exceedance Temperature Values for Wilkes-Barre/Scranton, Pennsylvania

Maximum Dry Bulb Temperature (°F)	Coincident Wet Bulb Temperature (°F)	Non-Coincident Wet Bulb Temperature (°F)	Minimum Dry Bulb Temperature (°F)
100.0	71.7	78.9	-15.1

Table 2.3-23 Annual Cooling, Dehumidification, and Enthalpy Design Conditions for Wilkes-Barre/Scranton, Pennsylvania

Annual Cooling, Dehumidification, and Enthalpy Design Conditions															
Hottest month	Hottest month DB range	Cooling DB/MCWB						Evaporation WB/MCWB						MCWS/PCWD to 0.4 DB	
		0.4%		1%		2%		0.4%		1%		2%			
		DB	MCWB	DB	MCWB	DB	MCWD	WB	MCWB	WB	MCWB	WB	MCWB	MCWS	PCWD
7	8	9a	9b	9c	9d	9e	9f	10a	10b	10c	10d	10e	10f	11a	11b
7	18.8	88.1	71.6	85.2	70.3	82.7	68.8	74.6	83.5	73.0	81.3	71.5	79.0	10.5	230
Dehumidification DP/MCDB and HR									Enthalpy/MCBD						
0.4%			1%			2%			0.4%		1%		2%		
DP	HR	MCDB	DP	HR	MCDB	DP	HR	MCDB	Enth	MCDB	Enth	MCDB	Enth	MCDB	
12a	12b	12c	12d	12e	12f	12g	12h	12i	13a	13b	13c	13d	13e	13f	
71.8	121.9	79.1	70.3	115.5	77.3	68.9	109.9	76.0	31.0	83.6	29.5	81.3	28.1	79.2	

Notes:
DB- Dry bulb temperature, °F
MCDB- Mean coincident dry bulb temperature, °F
MCWS- Mean coincident wind speed, mph
DP- Dew point temperature, °F
Enth- Enthalpy, Btu/lb
PCWD- Prevailing coincident wind direction, °, 0 = North, 90 = East
WB- Wet bulb temperature, °F
HR- Humidity ratio, grains of moisture per lb of dry air
MCWB - Mean coincident wet bulb temperature, °F

Table 2.3-24 Extreme Annual Design Conditions for Wilkes-Barre/Scranton, Pennsylvania

Extreme Annual Design Conditions															
Extreme Annual WS			Extreme Max WB	Extreme Annual DB				n-Year Return Period Values of Extreme DB							
				Mean		Standard deviation		n=5 years		n=10 years		n=20 years		n=50 years	
1%	2.5%	5%		Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
14a	14b	14c	15	16a	16b	16c	16d	17a	17b	17c	17d	17e	17f	17g	17h
20.3	18.3	16.7	84.9	92.6	-3.9	2.8	6.3	94.6	-8.4	96.3	-12.1	97.8	-15.7	99.9	-20.2

Notes:
WB- Wet bulb temperature, °F
WS- Wind speed, mph
DB- Dry bulb temperature, °F

Table 2.3-25 Monthly Design Dry Bulb and Mean Coincident Wet Bulb Temperatures for Wilkes-Barre/Scranton, Pennsylvania

Monthly Design Dry Bulb and Mean Coincident Wet Bulb Temperatures												
%	Jan		Feb		Mar		Apr		May		Jun	
	DB	MCWB	DB	MCWB	DB	MCWB	DB	MCWB	DB	MCWB	DB	MCWB
	18a	18b	18c	18d	18e	18f	18g	18h	18i	18j	18k	18l
0.4%	60.4	55.8	59.2	50.7	74.3	58.8	82.4	62.5	86.4	66.6	89.2	72.1
1%	55.9	51.1	56.1	49.5	69.1	56.2	78.4	60.6	84.4	65.9	87.3	71.2
2%	51.5	47.7	53.0	47.6	65.3	53.7	74.6	58.7	82.4	65.3	85.4	70.2
%	Jul		Aug		Sep		Oct		Nov		Dec	
	DB	MCWB	DB	MCWB	DB	MCWB	DB	MCWB	DB	MCWB	DB	MCWB
	18m	18n	18o	18p	18q	18r	18s	18t	18u	18v	18w	18x
0.4%	93.0	73.5	90.8	73.5	85.9	70.5	77.0	64.1	70.0	60.0	61.6	55.3
1%	90.5	73.1	88.7	72.5	83.7	69.0	74.7	63.2	66.5	59.0	58.0	52.6
2%	88.6	72.6	86.6	71.5	81.6	68.6	72.2	61.9	64.3	57.7	54.9	50.7

Notes:
DB- Dry bulb temperature, °F
MCWB- Mean coincident wet bulb temperature, °F

Table 2.3-26 Monthly Design Wet Bulb and Mean Coincident Dry Bulb Temperatures for Wilkes-Barre/Scranton, Pennsylvania

Monthly Design Wet Bulb and Mean Coincident Dry Bulb Temperatures												
%	Jan		Feb		Mar		Apr		May		Jun	
	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB
	19a	19b	19c	19d	19e	19f	19g	19h	19i	19j	19k	19l
0.4%	56.9	59.9	53.8	57.5	60.9	71.9	64.3	77.2	71.8	81.1	75.4	84.8
1%	52.2	55.0	51.4	54.2	58.3	67.1	62.8	75.1	70.1	79.4	73.8	82.8
2%	48.1	50.6	48.4	52.1	55.7	62.8	61.0	71.8	68.3	77.6	72.6	81.1
%	Jul		Aug		Sep		Oct		Nov		Dec	
	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB
	19m	19n	19o	19p	19q	19r	19s	19t	19u	19v	19w	19x
0.4%	77.4	87.6	76.0	85.8	73.5	81.2	67.5	72.9	62.6	67.0	57.1	60.7
1%	76.2	85.8	74.9	84.2	72.3	80.0	65.8	70.6	61.0	65.1	54.1	57.1
2%	75.1	84.1	74.0	83.0	71.1	78.4	64.3	69.3	59.0	63.3	51.1	53.7

Notes:
WB- Wet bulb temperature, °F
MCDB- Mean coincident dry bulb temperature, °F

Table 2.3-27 Monthly Mean Daily Temperature Range for Wilkes-Barre/Scranton, Pennsylvania

Monthly Mean Daily Temperature Range											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20a	20b	20c	20d	20e	20f	20g	20h	20i	20j	20k	20l
13.3	14.6	16.5	18.5	19.7	19.0	18.8	18.4	18.1	17.8	14.0	12.4

Table 2.3-28 {SSES 33' (10-m) 2001-2007 Annual JFD}

(Page 1 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 5.01**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	2	2	14	11	13	9	5	2	2	1	0	0	0	0	0	61
(1)	.00	.00	.07	.07	.46	.36	.43	.30	.16	.07	.07	.03	.00	.00	.00	.00	.00	2.00
(2)	.00	.00	.00	.00	.02	.02	.02	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.10
1.1- 1.5	2	13	31	36	35	36	25	25	38	35	33	15	5	3	2	4	0	338
(1)	.07	.43	1.02	1.18	1.15	1.18	.82	.82	1.25	1.15	1.08	.49	.16	.10	.07	.13	.00	11.10
(2)	.00	.02	.05	.06	.06	.06	.04	.04	.06	.06	.05	.02	.01	.00	.00	.01	.00	.56
1.6- 2.0	6	15	27	26	29	22	22	33	47	69	76	18	4	2	3	4	0	403
(1)	.20	.49	.89	.85	.95	.72	.72	1.08	1.54	2.27	2.50	.59	.13	.07	.10	.13	.00	13.23
(2)	.01	.02	.04	.04	.05	.04	.04	.05	.08	.11	.12	.03	.01	.00	.00	.01	.00	.66
2.1- 3.0	23	52	60	15	11	9	44	37	81	182	321	59	10	10	8	14	0	936
(1)	.76	1.71	1.97	.49	.36	.30	1.44	1.21	2.66	5.98	10.54	1.94	.33	.33	.26	.46	.00	30.73
(2)	.04	.09	.10	.02	.02	.01	.07	.06	.13	.30	.53	.10	.02	.02	.01	.02	.00	1.54
3.1- 4.0	58	67	22	1	1	3	21	23	52	103	306	81	24	13	10	14	0	799
(1)	1.90	2.20	.72	.03	.03	.10	.69	.76	1.71	3.38	10.05	2.66	.79	.43	.33	.46	.00	26.23
(2)	.10	.11	.04	.00	.00	.00	.03	.04	.09	.17	.50	.13	.04	.02	.02	.02	.00	1.31
4.1- 5.0	21	17	4	0	0	1	14	7	25	30	141	88	15	5	5	9	0	382
(1)	.69	.56	.13	.00	.00	.03	.46	.23	.82	.98	4.63	2.89	.49	.16	.16	.30	.00	12.54
(2)	.03	.03	.01	.00	.00	.00	.02	.01	.04	.05	.23	.14	.02	.01	.01	.01	.00	.63
5.1- 6.0	9	2	0	0	0	1	2	0	0	3	42	32	3	0	3	5	0	102
(1)	.30	.07	.00	.00	.00	.03	.07	.00	.00	.10	1.38	1.05	.10	.00	.10	.16	.00	3.35
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.05	.00	.00	.00	.01	.00	.17

Table 2.3-28 {SSES 33' (10-m) 2001-2007 Annual JFD}

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SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 5.01**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	3	0	0	0	0	0	0	1	1	0	12	5	0	0	1	2	0	25
(1)	.10	.00	.00	.00	.00	.00	.00	.03	.03	.00	.39	.16	.00	.00	.03	.07	.00	.82
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.01	.00	.00	.00	.00	.00	.04
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	122	166	146	80	90	83	141	135	249	424	933	299	61	33	32	52	0	3046
(1)	4.01	5.45	4.79	2.63	2.95	2.72	4.63	4.43	8.17	13.92	30.63	9.82	2.00	1.08	1.05	1.71	.00	100.00
(2)	.20	.27	.24	.13	.15	.14	.23	.22	.41	.70	1.53	.49	.10	.05	.05	.09	.00	5.01

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-28—{SSES 33' (10-m) 2001-2007 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 2.77**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	2	0	3	2	13	11	5	3	5	2	1	1	0	1	1	0	0	50
(1)	.12	.00	.18	.12	.77	.65	.30	.18	.30	.12	.06	.06	.00	.06	.06	.00	.00	2.97
(2)	.00	.00	.00	.00	.02	.02	.01	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.08
1.1- 1.5	8	2	17	25	18	11	11	11	18	19	13	2	0	1	0	0	0	156
(1)	.48	.12	1.01	1.49	1.07	.65	.65	.65	1.07	1.13	.77	.12	.00	.06	.00	.00	.00	9.27
(2)	.01	.00	.03	.04	.03	.02	.02	.02	.03	.03	.02	.00	.00	.00	.00	.00	.00	.26
1.6- 2.0	11	16	17	14	11	7	9	14	10	28	30	7	0	1	0	5	0	180
(1)	.65	.95	1.01	.83	.65	.42	.54	.83	.59	1.66	1.78	.42	.00	.06	.00	.30	.00	10.70
(2)	.02	.03	.03	.02	.02	.01	.01	.02	.02	.05	.05	.01	.00	.00	.00	.01	.00	.30
2.1- 3.0	12	53	43	7	7	3	20	11	27	82	124	25	10	2	10	8	0	444
(1)	.71	3.15	2.56	.42	.42	.18	1.19	.65	1.61	4.88	7.37	1.49	.59	.12	.59	.48	.00	26.40
(2)	.02	.09	.07	.01	.01	.00	.03	.02	.04	.13	.20	.04	.02	.00	.02	.01	.00	.73
3.1- 4.0	37	42	21	1	5	1	9	9	14	30	160	51	22	17	10	24	0	453
(1)	2.20	2.50	1.25	.06	.30	.06	.54	.54	.83	1.78	9.51	3.03	1.31	1.01	.59	1.43	.00	26.93
(2)	.06	.07	.03	.00	.01	.00	.01	.01	.02	.05	.26	.08	.04	.03	.02	.04	.00	.75
4.1- 5.0	21	14	6	0	2	1	3	2	4	8	92	50	19	12	9	21	0	264
(1)	1.25	.83	.36	.00	.12	.06	.18	.12	.24	.48	5.47	2.97	1.13	.71	.54	1.25	.00	15.70
(2)	.03	.02	.01	.00	.00	.00	.00	.00	.01	.01	.15	.08	.03	.02	.01	.03	.00	.43
5.1- 6.0	6	4	0	0	0	0	1	0	1	2	38	32	2	1	8	8	0	103
(1)	.36	.24	.00	.00	.00	.00	.06	.00	.06	.12	2.26	1.90	.12	.06	.48	.48	.00	6.12
(2)	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.06	.05	.00	.00	.01	.01	.00	.17

Table 2.3-28—{SSES 33' (10-m) 2001-2007 Annual JFD - continued}

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SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 2.77**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	4	0	0	0	0	0	0	0	0	0	11	9	0	0	3	3	0	30
(1)	.24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.65	.54	.00	.00	.18	.18	.00	1.78
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.01	.00	.00	.00	.00	.00	.05
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00	.00	.00	.06	.00	.12
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	101	131	107	49	56	34	58	50	79	171	470	177	53	35	41	70	0	1682
(1)	6.00	7.79	6.36	2.91	3.33	2.02	3.45	2.97	4.70	10.17	27.94	10.52	3.15	2.08	2.44	4.16	.00	100.00
(2)	.17	.22	.18	.08	.09	.06	.10	.08	.13	.28	.77	.29	.09	.06	.07	.12	.00	2.77

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-28—{SSES 33' (10-m) 2001-2007 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 4.17**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	2	5	6	15	21	14	10	10	3	2	0	0	1	0	0	0	89
(1)	.00	.08	.20	.24	.59	.83	.55	.39	.39	.12	.08	.00	.00	.04	.00	.00	.00	3.51
(2)	.00	.00	.01	.01	.02	.03	.02	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.15
1.1- 1.5	9	13	16	27	28	19	13	11	27	26	19	2	8	1	1	3	0	223
(1)	.36	.51	.63	1.07	1.11	.75	.51	.43	1.07	1.03	.75	.08	.32	.04	.04	.12	.00	8.80
(2)	.01	.02	.03	.04	.05	.03	.02	.02	.04	.04	.03	.00	.01	.00	.00	.00	.00	.37
1.6- 2.0	10	25	25	24	12	14	14	15	20	39	48	15	8	5	3	3	0	280
(1)	.39	.99	.99	.95	.47	.55	.55	.59	.79	1.54	1.89	.59	.32	.20	.12	.12	.00	11.05
(2)	.02	.04	.04	.04	.02	.02	.02	.02	.03	.06	.08	.02	.01	.01	.00	.00	.00	.46
2.1- 3.0	43	89	61	19	7	6	17	15	43	86	219	58	10	8	13	20	0	714
(1)	1.70	3.51	2.41	.75	.28	.24	.67	.59	1.70	3.40	8.65	2.29	.39	.32	.51	.79	.00	28.19
(2)	.07	.15	.10	.03	.01	.01	.03	.02	.07	.14	.36	.10	.02	.01	.02	.03	.00	1.17
3.1- 4.0	90	57	8	3	3	4	18	11	32	30	186	78	25	17	30	36	0	628
(1)	3.55	2.25	.32	.12	.12	.16	.71	.43	1.26	1.18	7.34	3.08	.99	.67	1.18	1.42	.00	24.79
(2)	.15	.09	.01	.00	.00	.01	.03	.02	.05	.05	.31	.13	.04	.03	.05	.06	.00	1.03
4.1- 5.0	38	15	4	0	0	2	3	4	10	9	103	89	21	14	17	38	0	367
(1)	1.50	.59	.16	.00	.00	.08	.12	.16	.39	.36	4.07	3.51	.83	.55	.67	1.50	.00	14.49
(2)	.06	.02	.01	.00	.00	.00	.00	.01	.02	.01	.17	.15	.03	.02	.03	.06	.00	.60
5.1- 6.0	10	5	0	0	0	0	1	0	1	0	36	47	19	2	20	24	0	165
(1)	.39	.20	.00	.00	.00	.00	.04	.00	.04	.00	1.42	1.86	.75	.08	.79	.95	.00	6.51
(2)	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.06	.08	.03	.00	.03	.04	.00	.27

Table 2.3-28—{SSES 33' (10-m) 2001-2007 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 4.17**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	2	0	0	0	0	0	1	0	0	0	17	26	7	0	3	7	0	63
(1)	.08	.00	.00	.00	.00	.00	.04	.00	.00	.00	.67	1.03	.28	.00	.12	.28	.00	2.49
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.04	.01	.00	.00	.01	.00	.10
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.12	.00	.00	.00	.00	.00	.16
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	202	206	119	79	65	66	81	66	143	193	631	318	98	48	87	131	0	2533
(1)	7.97	8.13	4.70	3.12	2.57	2.61	3.20	2.61	5.65	7.62	24.91	12.55	3.87	1.89	3.43	5.17	.00	100.00
(2)	.33	.34	.20	.13	.11	.11	.13	.11	.24	.32	1.04	.52	.16	.08	.14	.22	.00	4.17

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-28—{SSES 33' (10-m) 2001-2007 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 40.31**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	1	1	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	7
(1)	.00	.00	.00	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
.2- .4	0	0	4	12	13	9	6	6	4	2	1	0	0	1	1	0	0	59
(1)	.00	.00	.02	.05	.05	.04	.02	.02	.02	.01	.00	.00	.00	.00	.00	.00	.00	.24
(2)	.00	.00	.01	.02	.02	.01	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.10
.5- 1.0	40	141	229	271	350	324	269	178	169	98	65	28	11	5	24	20	0	2222
(1)	.16	.58	.93	1.11	1.43	1.32	1.10	.73	.69	.40	.27	.11	.04	.02	.10	.08	.00	9.07
(2)	.07	.23	.38	.45	.58	.53	.44	.29	.28	.16	.11	.05	.02	.01	.04	.03	.00	3.65
1.1- 1.5	127	346	381	261	199	184	263	232	322	359	256	108	50	44	46	37	0	3215
(1)	.52	1.41	1.55	1.06	.81	.75	1.07	.95	1.31	1.46	1.04	.44	.20	.18	.19	.15	.00	13.12
(2)	.21	.57	.63	.43	.33	.30	.43	.38	.53	.59	.42	.18	.08	.07	.08	.06	.00	5.29
1.6- 2.0	198	405	354	155	132	127	218	198	258	380	318	148	103	64	73	71	0	3202
(1)	.81	1.65	1.44	.63	.54	.52	.89	.81	1.05	1.55	1.30	.60	.42	.26	.30	.29	.00	13.06
(2)	.33	.67	.58	.25	.22	.21	.36	.33	.42	.62	.52	.24	.17	.11	.12	.12	.00	5.27
2.1- 3.0	600	719	494	134	106	179	291	263	414	572	821	347	248	242	296	374	0	6100
(1)	2.45	2.93	2.02	.55	.43	.73	1.19	1.07	1.69	2.33	3.35	1.42	1.01	.99	1.21	1.53	.00	24.89
(2)	.99	1.18	.81	.22	.17	.29	.48	.43	.68	.94	1.35	.57	.41	.40	.49	.62	.00	10.03
3.1- 4.0	569	344	146	44	40	59	136	96	139	196	752	401	271	275	480	537	0	4485
(1)	2.32	1.40	.60	.18	.16	.24	.55	.39	.57	.80	3.07	1.64	1.11	1.12	1.96	2.19	.00	18.30
(2)	.94	.57	.24	.07	.07	.10	.22	.16	.23	.32	1.24	.66	.45	.45	.79	.88	.00	7.38
4.1- 5.0	250	74	21	8	11	17	32	30	48	38	463	441	289	228	468	485	0	2903
(1)	1.02	.30	.09	.03	.04	.07	.13	.12	.20	.16	1.89	1.80	1.18	.93	1.91	1.98	.00	11.84
(2)	.41	.12	.03	.01	.02	.03	.05	.05	.08	.06	.76	.73	.48	.37	.77	.80	.00	4.77
5.1- 6.0	46	10	5	3	5	6	10	12	9	7	211	323	173	145	310	214	0	1489
(1)	.19	.04	.02	.01	.02	.02	.04	.05	.04	.03	.86	1.32	.71	.59	1.26	.87	.00	6.08
(2)	.08	.02	.01	.00	.01	.01	.02	.02	.01	.01	.35	.53	.28	.24	.51	.35	.00	2.45

Table 2.3-28—{SSES 33' (10-m) 2001-2007 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 40.31**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	6	1	1	2	0	3	5	8	7	2	90	235	118	73	113	81	0	745
(1)	.02	.00	.00	.01	.00	.01	.02	.03	.03	.01	.37	.96	.48	.30	.46	.33	.00	3.04
(2)	.01	.00	.00	.00	.00	.00	.01	.01	.01	.00	.15	.39	.19	.12	.19	.13	.00	1.23
8.1-10.0	0	0	0	0	0	0	1	0	2	0	5	47	18	4	2	2	0	81
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.02	.19	.07	.02	.01	.01	.00	.33
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.08	.03	.01	.00	.00	.00	.13
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	1837	2041	1636	892	858	908	1231	1023	1372	1654	2982	2079	1282	1081	1813	1821	0	24510
(1)	7.49	8.33	6.67	3.64	3.50	3.70	5.02	4.17	5.60	6.75	12.17	8.48	5.23	4.41	7.40	7.43	.00	100.00
(2)	3.02	3.36	2.69	1.47	1.41	1.49	2.02	1.68	2.26	2.72	4.90	3.42	2.11	1.78	2.98	2.99	.00	40.31

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-28—{SSES 33' (10-m) 2001-2007 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS E — CLASS FREQUENCY (PERCENT) = 28.44

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	3	5	3	1	0	0	0	1	0	0	0	0	0	0	0	13
(1)	.00	.00	.02	.03	.02	.01	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.08
(2)	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.2- .4	0	4	15	23	38	23	24	17	5	4	1	0	1	0	0	1	0	156
(1)	.00	.02	.09	.13	.22	.13	.14	.10	.03	.02	.01	.00	.01	.00	.00	.01	.00	.90
(2)	.00	.01	.02	.04	.06	.04	.04	.03	.01	.01	.00	.00	.00	.00	.00	.00	.00	.26
.5- 1.0	100	287	745	1287	1141	744	677	468	431	231	88	31	21	16	15	21	0	6303
(1)	.58	1.66	4.31	7.44	6.60	4.30	3.92	2.71	2.49	1.34	.51	.18	.12	.09	.09	.12	.00	36.45
(2)	.16	.47	1.23	2.12	1.88	1.22	1.11	.77	.71	.38	.14	.05	.03	.03	.02	.03	.00	10.37
1.1- 1.5	167	553	729	518	163	134	215	301	577	516	237	79	57	27	27	40	0	4340
(1)	.97	3.20	4.22	3.00	.94	.78	1.24	1.74	3.34	2.98	1.37	.46	.33	.16	.16	.23	.00	25.10
(2)	.27	.91	1.20	.85	.27	.22	.35	.50	.95	.85	.39	.13	.09	.04	.04	.07	.00	7.14
1.6- 2.0	222	436	265	85	43	49	59	139	272	510	239	116	48	32	47	45	0	2607
(1)	1.28	2.52	1.53	.49	.25	.28	.34	.80	1.57	2.95	1.38	.67	.28	.19	.27	.26	.00	15.08
(2)	.37	.72	.44	.14	.07	.08	.10	.23	.45	.84	.39	.19	.08	.05	.08	.07	.00	4.29
2.1- 3.0	240	361	193	34	35	43	60	82	225	411	413	106	65	41	97	157	0	2563
(1)	1.39	2.09	1.12	.20	.20	.25	.35	.47	1.30	2.38	2.39	.61	.38	.24	.56	.91	.00	14.82
(2)	.39	.59	.32	.06	.06	.07	.10	.13	.37	.68	.68	.17	.11	.07	.16	.26	.00	4.22
3.1- 4.0	70	98	59	17	13	17	22	33	71	88	209	65	20	18	28	67	0	895
(1)	.40	.57	.34	.10	.08	.10	.13	.19	.41	.51	1.21	.38	.12	.10	.16	.39	.00	5.18
(2)	.12	.16	.10	.03	.02	.03	.04	.05	.12	.14	.34	.11	.03	.03	.05	.11	.00	1.47
4.1- 5.0	14	15	7	2	5	4	12	20	29	27	53	22	8	6	15	16	0	255
(1)	.08	.09	.04	.01	.03	.02	.07	.12	.17	.16	.31	.13	.05	.03	.09	.09	.00	1.47
(2)	.02	.02	.01	.00	.01	.01	.02	.03	.05	.04	.09	.04	.01	.01	.02	.03	.00	.42
5.1- 6.0	4	1	5	3	1	8	9	9	16	6	11	14	3	5	3	2	0	100
(1)	.02	.01	.03	.02	.01	.05	.05	.05	.09	.03	.06	.08	.02	.03	.02	.01	.00	.58
(2)	.01	.00	.01	.00	.00	.01	.01	.01	.03	.01	.02	.02	.00	.01	.00	.00	.00	.16

Table 2.3-28—{SSES 33' (10-m) 2001-2007 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 28.44**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	3	0	2	2	2	8	8	10	1	6	9	0	1	1	1	0	54
(1)	.00	.02	.00	.01	.01	.01	.05	.05	.06	.01	.03	.05	.00	.01	.01	.01	.00	.31
(2)	.00	.00	.00	.00	.00	.00	.01	.01	.02	.00	.01	.01	.00	.00	.00	.00	.00	.09
8.1-10.0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	3
(1)	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00	.00	.00	.00	.00	.02
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.01
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	817	1759	2021	1976	1444	1025	1086	1077	1636	1795	1258	444	223	146	233	350	0	17290
(1)	4.73	10.17	11.69	11.43	8.35	5.93	6.28	6.23	9.46	10.38	7.28	2.57	1.29	.84	1.35	2.02	.00	100.00
(2)	1.34	2.89	3.32	3.25	2.37	1.69	1.79	1.77	2.69	2.95	2.07	.73	.37	.24	.38	.58	.00	28.44

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-28—{SSES 33' (10-m) 2001-2007 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS F — CLASS FREQUENCY (PERCENT) = 11.76

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	4
(1)	.00	.01	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
.2- .4	1	3	4	16	28	10	7	3	2	0	2	0	1	0	0	0	0	77
(1)	.01	.04	.06	.22	.39	.14	.10	.04	.03	.00	.03	.00	.01	.00	.00	.00	.00	1.08
(2)	.00	.00	.01	.03	.05	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13
.5- 1.0	15	90	544	1896	1008	399	241	172	165	50	20	8	5	2	7	8	0	4630
(1)	.21	1.26	7.61	26.52	14.10	5.58	3.37	2.41	2.31	.70	.28	.11	.07	.03	.10	.11	.00	64.77
(2)	.02	.15	.89	3.12	1.66	.66	.40	.28	.27	.08	.03	.01	.01	.00	.01	.01	.00	7.61
1.1- 1.5	27	105	381	1062	96	24	35	64	118	90	38	6	2	3	3	7	0	2061
(1)	.38	1.47	5.33	14.86	1.34	.34	.49	.90	1.65	1.26	.53	.08	.03	.04	.04	.10	.00	28.83
(2)	.04	.17	.63	1.75	.16	.04	.06	.11	.19	.15	.06	.01	.00	.00	.00	.01	.00	3.39
1.6- 2.0	14	52	52	82	2	1	1	12	17	38	23	5	0	1	2	3	0	305
(1)	.20	.73	.73	1.15	.03	.01	.01	.17	.24	.53	.32	.07	.00	.01	.03	.04	.00	4.27
(2)	.02	.09	.09	.13	.00	.00	.00	.02	.03	.06	.04	.01	.00	.00	.00	.00	.00	.50
2.1- 3.0	5	8	2	0	0	0	0	1	3	6	23	5	2	1	1	5	0	62
(1)	.07	.11	.03	.00	.00	.00	.00	.01	.04	.08	.32	.07	.03	.01	.01	.07	.00	.87
(2)	.01	.01	.00	.00	.00	.00	.00	.00	.00	.01	.04	.01	.00	.00	.00	.01	.00	.10
3.1- 4.0	2	1	1	0	0	0	0	0	0	1	0	0	0	1	1	1	0	8
(1)	.03	.01	.01	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.01	.01	.01	.00	.11
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
4.1- 5.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-28—{SSES 33' (10-m) 2001-2007 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 11.76**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	65	260	985	3057	1135	434	284	252	305	185	106	24	10	8	14	24	0	7148
(1)	.91	3.64	13.78	42.77	15.88	6.07	3.97	3.53	4.27	2.59	1.48	.34	.14	.11	.20	.34	.00	100.00
(2)	.11	.43	1.62	5.03	1.87	.71	.47	.41	.50	.30	.17	.04	.02	.01	.02	.04	.00	11.76

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-28—{SSES 33' (10-m) 2001-2007 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 7.56

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.02	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	1	0	0	5	4	3	1	0	0	0	0	0	0	0	0	0	0	14
(1)	.02	.00	.00	.11	.09	.07	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30
(2)	.00	.00	.00	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	8	42	483	1564	489	156	90	56	26	9	4	1	0	0	3	2	0	2933
(1)	.17	.91	10.51	34.03	10.64	3.39	1.96	1.22	.57	.20	.09	.02	.00	.00	.07	.04	.00	63.82
(2)	.01	.07	.79	2.57	.80	.26	.15	.09	.04	.01	.01	.00	.00	.00	.00	.00	.00	4.82
1.1- 1.5	2	15	244	1124	56	16	10	11	25	8	3	0	1	0	0	2	0	1517
(1)	.04	.33	5.31	24.46	1.22	.35	.22	.24	.54	.17	.07	.00	.02	.00	.00	.04	.00	33.01
(2)	.00	.02	.40	1.85	.09	.03	.02	.02	.04	.01	.00	.00	.00	.00	.00	.00	.00	2.49
1.6- 2.0	2	4	27	77	1	1	0	1	0	5	3	0	0	0	0	0	0	121
(1)	.04	.09	.59	1.68	.02	.02	.00	.02	.00	.11	.07	.00	.00	.00	.00	.00	.00	2.63
(2)	.00	.01	.04	.13	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.20
2.1- 3.0	0	2	2	1	0	0	2	0	0	2	0	0	0	0	0	0	0	9
(1)	.00	.04	.04	.02	.00	.00	.04	.00	.00	.04	.00	.00	.00	.00	.00	.00	.00	.20
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-28—{SSES 33' (10-m) 2001-2007 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 7.56**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	14	63	756	2772	550	176	103	68	51	24	10	1	1	0	3	4	0	4596
(1)	.30	1.37	16.45	60.31	11.97	3.83	2.24	1.48	1.11	.52	.22	.02	.02	.00	.07	.09	.00	100.00
(2)	.02	.10	1.24	4.56	.90	.29	.17	.11	.08	.04	.02	.00	.00	.00	.00	.01	.00	7.56

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-28—{SSES 33' (10-m) 2001-2007 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	2	2	5	9	6	1	0	0	0	1	0	0	0	0	0	0	0	26
(1)	.00	.00	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
(2)	.00	.00	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
.2- .4	2	7	23	56	83	45	38	26	11	6	4	0	2	1	1	1	0	306
(1)	.00	.01	.04	.09	.14	.07	.06	.04	.02	.01	.01	.00	.00	.00	.00	.00	.00	.50
(2)	.00	.01	.04	.09	.14	.07	.06	.04	.02	.01	.01	.00	.00	.00	.00	.00	.00	.50
.5- 1.0	165	562	2011	5028	3030	1666	1309	896	811	395	182	70	37	25	50	51	0	16288
(1)	.27	.92	3.31	8.27	4.98	2.74	2.15	1.47	1.33	.65	.30	.12	.06	.04	.08	.08	.00	26.79
(2)	.27	.92	3.31	8.27	4.98	2.74	2.15	1.47	1.33	.65	.30	.12	.06	.04	.08	.08	.00	26.79
1.1- 1.5	342	1047	1799	3053	595	424	572	655	1125	1053	599	212	123	79	79	93	0	11850
(1)	.56	1.72	2.96	5.02	.98	.70	.94	1.08	1.85	1.73	.99	.35	.20	.13	.13	.15	.00	19.49
(2)	.56	1.72	2.96	5.02	.98	.70	.94	1.08	1.85	1.73	.99	.35	.20	.13	.13	.15	.00	19.49
1.6- 2.0	463	953	767	463	230	221	323	412	624	1069	737	309	163	105	128	131	0	7098
(1)	.76	1.57	1.26	.76	.38	.36	.53	.68	1.03	1.76	1.21	.51	.27	.17	.21	.22	.00	11.67
(2)	.76	1.57	1.26	.76	.38	.36	.53	.68	1.03	1.76	1.21	.51	.27	.17	.21	.22	.00	11.67
2.1- 3.0	923	1284	855	210	166	240	434	409	793	1341	1921	600	345	304	425	578	0	10828
(1)	1.52	2.11	1.41	.35	.27	.39	.71	.67	1.30	2.21	3.16	.99	.57	.50	.70	.95	.00	17.81
(2)	1.52	2.11	1.41	.35	.27	.39	.71	.67	1.30	2.21	3.16	.99	.57	.50	.70	.95	.00	17.81
3.1- 4.0	826	609	257	66	62	84	206	172	308	448	1613	676	362	341	559	679	0	7268
(1)	1.36	1.00	.42	.11	.10	.14	.34	.28	.51	.74	2.65	1.11	.60	.56	.92	1.12	.00	11.95
(2)	1.36	1.00	.42	.11	.10	.14	.34	.28	.51	.74	2.65	1.11	.60	.56	.92	1.12	.00	11.95
4.1- 5.0	345	135	42	10	18	25	64	63	116	112	852	690	352	265	514	569	0	4172
(1)	.57	.22	.07	.02	.03	.04	.11	.10	.19	.18	1.40	1.13	.58	.44	.85	.94	.00	6.86
(2)	.57	.22	.07	.02	.03	.04	.11	.10	.19	.18	1.40	1.13	.58	.44	.85	.94	.00	6.86
5.1- 6.0	75	22	10	6	6	15	23	21	27	18	338	448	200	153	344	253	0	1959
(1)	.12	.04	.02	.01	.01	.02	.04	.03	.04	.03	.56	.74	.33	.25	.57	.42	.00	3.22
(2)	.12	.04	.02	.01	.01	.02	.04	.03	.04	.03	.56	.74	.33	.25	.57	.42	.00	3.22

Table 2.3-28—{SSES 33' (10-m) 2001-2007 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	15	4	1	4	2	5	14	17	18	3	136	284	125	74	121	94	0	917
(1)	.02	.01	.00	.01	.00	.01	.02	.03	.03	.00	.22	.47	.21	.12	.20	.15	.00	1.51
(2)	.02	.01	.00	.01	.00	.01	.02	.03	.03	.00	.22	.47	.21	.12	.20	.15	.00	1.51
8.1-10.0	0	1	0	0	0	0	1	0	2	0	8	51	18	4	2	3	0	90
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.08	.03	.01	.00	.00	.00	.15
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.08	.03	.01	.00	.00	.00	.15
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	3158	4626	5770	8905	4198	2726	2984	2671	3835	4446	6390	3342	1728	1351	2223	2452	0	60805
(1)	5.19	7.61	9.49	14.65	6.90	4.48	4.91	4.39	6.31	7.31	10.51	5.50	2.84	2.22	3.66	4.03	.00	100.00
(2)	5.19	7.61	9.49	14.65	6.90	4.48	4.91	4.39	6.31	7.31	10.51	5.50	2.84	2.22	3.66	4.03	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-29 {SSES 197' (60-m) 2001-2007 Annual JFD}

(Page 1 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 4.55**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	2	4	8	7	11	5	2	9	2	3	0	0	0	1	0	0	54
(1)	.00	.07	.15	.30	.26	.41	.19	.07	.33	.07	.11	.00	.00	.00	.04	.00	.00	2.00
(2)	.00	.00	.01	.01	.01	.02	.01	.00	.02	.00	.01	.00	.00	.00	.00	.00	.00	.09
1.1- 1.5	1	4	23	25	13	12	11	5	18	24	19	5	1	1	1	0	0	163
(1)	.04	.15	.85	.93	.48	.45	.41	.19	.67	.89	.71	.19	.04	.04	.04	.00	.00	6.05
(2)	.00	.01	.04	.04	.02	.02	.02	.01	.03	.04	.03	.01	.00	.00	.00	.00	.00	.28
1.6- 2.0	3	16	27	28	12	12	17	14	19	37	28	9	2	2	1	0	0	227
(1)	.11	.59	1.00	1.04	.45	.45	.63	.52	.71	1.37	1.04	.33	.07	.07	.04	.00	.00	8.42
(2)	.01	.03	.05	.05	.02	.02	.03	.02	.03	.06	.05	.02	.00	.00	.00	.00	.00	.38
2.1- 3.0	7	32	49	12	11	14	20	21	27	83	121	30	1	0	5	4	0	437
(1)	.26	1.19	1.82	.45	.41	.52	.74	.78	1.00	3.08	4.49	1.11	.04	.00	.19	.15	.00	16.22
(2)	.01	.05	.08	.02	.02	.02	.03	.04	.05	.14	.20	.05	.00	.00	.01	.01	.00	.74
3.1- 4.0	21	33	37	4	3	4	16	14	24	55	159	50	11	8	6	9	0	454
(1)	.78	1.22	1.37	.15	.11	.15	.59	.52	.89	2.04	5.90	1.86	.41	.30	.22	.33	.00	16.85
(2)	.04	.06	.06	.01	.01	.01	.03	.02	.04	.09	.27	.08	.02	.01	.01	.02	.00	.77
4.1- 5.0	42	46	15	10	1	1	18	17	24	54	193	71	15	10	4	8	0	529
(1)	1.56	1.71	.56	.37	.04	.04	.67	.63	.89	2.00	7.16	2.63	.56	.37	.15	.30	.00	19.63
(2)	.07	.08	.03	.02	.00	.00	.03	.03	.04	.09	.33	.12	.03	.02	.01	.01	.00	.89
5.1- 6.0	15	40	8	3	0	1	18	14	25	40	164	93	21	3	4	5	0	454
(1)	.56	1.48	.30	.11	.00	.04	.67	.52	.93	1.48	6.09	3.45	.78	.11	.15	.19	.00	16.85
(2)	.03	.07	.01	.01	.00	.00	.03	.02	.04	.07	.28	.16	.04	.01	.01	.01	.00	.77

Table 2.3-29 {SSES 197' (60-m) 2001-2007 Annual JFD}

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SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 4.55**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	11	13	2	1	0	3	4	7	28	48	93	106	6	0	4	4	0	330
(1)	.41	.48	.07	.04	.00	.11	.15	.26	1.04	1.78	3.45	3.93	.22	.00	.15	.15	.00	12.24
(2)	.02	.02	.00	.00	.00	.01	.01	.01	.05	.08	.16	.18	.01	.00	.01	.01	.00	.56
8.1-10.0	4	1	0	0	0	1	1	1	1	9	7	16	0	0	1	0	0	42
(1)	.15	.04	.00	.00	.00	.04	.04	.04	.04	.33	.26	.59	.00	.00	.04	.00	.00	1.56
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.02	.01	.03	.00	.00	.00	.00	.00	.07
10.1-40.3	0	0	0	0	0	0	0	0	1	0	1	3	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.04	.11	.00	.00	.00	.00	.00	.19
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.01
ALL SPEEDS	104	187	165	91	47	59	110	95	176	352	788	383	57	24	27	30	0	2695
(1)	3.86	6.94	6.12	3.38	1.74	2.19	4.08	3.53	6.53	13.06	29.24	14.21	2.12	.89	1.00	1.11	.00	100.00
(2)	.18	.32	.28	.15	.08	.10	.19	.16	.30	.59	1.33	.65	.10	.04	.05	.05	.00	4.55

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-29—{SSES 197' (60-m) 2001-2007 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS B — CLASS FREQUENCY (PERCENT) = 2.75

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	5	5	5	5	3	2	3	4	0	1	0	0	0	1	0	34
(1)	.00	.00	.31	.31	.31	.31	.18	.12	.18	.25	.00	.06	.00	.00	.00	.06	.00	2.08
(2)	.00	.00	.01	.01	.01	.01	.01	.00	.01	.01	.00	.00	.00	.00	.00	.00	.00	.06
1.1- 1.5	3	6	11	10	8	8	5	3	7	11	4	1	0	0	1	0	0	78
(1)	.18	.37	.67	.61	.49	.49	.31	.18	.43	.67	.25	.06	.00	.00	.06	.00	.00	4.78
(2)	.01	.01	.02	.02	.01	.01	.01	.01	.01	.02	.01	.00	.00	.00	.00	.00	.00	.13
1.6- 2.0	3	16	21	11	1	9	2	2	6	13	16	0	1	0	1	2	0	104
(1)	.18	.98	1.29	.67	.06	.55	.12	.12	.37	.80	.98	.00	.06	.00	.06	.12	.00	6.38
(2)	.01	.03	.04	.02	.00	.02	.00	.00	.01	.02	.03	.00	.00	.00	.00	.00	.00	.18
2.1- 3.0	12	25	27	9	5	4	9	8	7	29	53	11	3	3	3	5	0	213
(1)	.74	1.53	1.66	.55	.31	.25	.55	.49	.43	1.78	3.25	.67	.18	.18	.18	.31	.00	13.06
(2)	.02	.04	.05	.02	.01	.01	.02	.01	.01	.05	.09	.02	.01	.01	.01	.01	.00	.36
3.1- 4.0	15	36	22	6	5	2	7	9	7	28	85	27	5	5	7	4	0	270
(1)	.92	2.21	1.35	.37	.31	.12	.43	.55	.43	1.72	5.21	1.66	.31	.31	.43	.25	.00	16.55
(2)	.03	.06	.04	.01	.01	.00	.01	.02	.01	.05	.14	.05	.01	.01	.01	.01	.00	.46
4.1- 5.0	20	32	16	1	4	2	8	7	14	20	110	49	21	15	10	17	0	346
(1)	1.23	1.96	.98	.06	.25	.12	.49	.43	.86	1.23	6.74	3.00	1.29	.92	.61	1.04	.00	21.21
(2)	.03	.05	.03	.00	.01	.00	.01	.01	.02	.03	.19	.08	.04	.03	.02	.03	.00	.58
5.1- 6.0	24	27	9	1	2	0	7	4	8	21	77	48	19	9	9	16	0	281
(1)	1.47	1.66	.55	.06	.12	.00	.43	.25	.49	1.29	4.72	2.94	1.16	.55	.55	.98	.00	17.23
(2)	.04	.05	.02	.00	.00	.00	.01	.01	.01	.04	.13	.08	.03	.02	.02	.03	.00	.47

Table 2.3-29—{SSES 197' (60-m) 2001-2007 Annual JFD - continued}

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SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 2.75**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	12	11	5	0	2	2	4	5	5	11	60	105	15	0	7	9	0	253
(1)	.74	.67	.31	.00	.12	.12	.25	.31	.31	.67	3.68	6.44	.92	.00	.43	.55	.00	15.51
(2)	.02	.02	.01	.00	.00	.00	.01	.01	.01	.02	.10	.18	.03	.00	.01	.02	.00	.43
8.1-10.0	4	2	0	0	0	0	0	0	1	7	8	18	1	0	3	0	0	44
(1)	.25	.12	.00	.00	.00	.00	.00	.00	.06	.43	.49	1.10	.06	.00	.18	.00	.00	2.70
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.03	.00	.00	.01	.00	.00	.07
10.1-40.3	0	0	0	0	0	0	0	0	0	0	5	2	0	0	0	1	0	8
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.31	.12	.00	.00	.00	.06	.00	.49
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.01
ALL SPEEDS	93	155	116	43	32	32	45	40	58	144	418	262	65	32	41	55	0	1631
(1)	5.70	9.50	7.11	2.64	1.96	1.96	2.76	2.45	3.56	8.83	25.63	16.06	3.99	1.96	2.51	3.37	.00	100.00
(2)	.16	.26	.20	.07	.05	.05	.08	.07	.10	.24	.71	.44	.11	.05	.07	.09	.00	2.75

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-29—{SSES 197' (60-m) 2001-2007 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA   STABILITY CLASS C   CLASS FREQUENCY (PERCENT) = 4.16

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	2	7	11	7	3	4	3	11	3	2	0	1	1	0	0	0	55
(1)	.00	.08	.28	.45	.28	.12	.16	.12	.45	.12	.08	.00	.04	.04	.00	.00	.00	2.23
(2)	.00	.00	.01	.02	.01	.01	.01	.01	.02	.01	.00	.00	.00	.00	.00	.00	.00	.09
1.1- 1.5	6	8	12	18	17	6	5	7	11	22	9	1	1	1	0	2	0	126
(1)	.24	.32	.49	.73	.69	.24	.20	.28	.45	.89	.36	.04	.04	.04	.00	.08	.00	5.11
(2)	.01	.01	.02	.03	.03	.01	.01	.01	.02	.04	.02	.00	.00	.00	.00	.00	.00	.21
1.6- 2.0	9	22	18	16	14	4	6	4	10	25	15	4	3	2	0	2	0	154
(1)	.36	.89	.73	.65	.57	.16	.24	.16	.41	1.01	.61	.16	.12	.08	.00	.08	.00	6.24
(2)	.02	.04	.03	.03	.02	.01	.01	.01	.02	.04	.03	.01	.01	.00	.00	.00	.00	.26
2.1- 3.0	13	43	39	19	2	8	9	6	16	45	90	28	5	6	6	9	0	344
(1)	.53	1.74	1.58	.77	.08	.32	.36	.24	.65	1.82	3.65	1.14	.20	.24	.24	.36	.00	13.95
(2)	.02	.07	.07	.03	.00	.01	.02	.01	.03	.08	.15	.05	.01	.01	.01	.02	.00	.58
3.1- 4.0	33	55	42	4	4	4	9	5	15	33	135	57	13	10	15	16	0	450
(1)	1.34	2.23	1.70	.16	.16	.16	.36	.20	.61	1.34	5.47	2.31	.53	.41	.61	.65	.00	18.25
(2)	.06	.09	.07	.01	.01	.01	.02	.01	.03	.06	.23	.10	.02	.02	.03	.03	.00	.76
4.1- 5.0	56	53	10	5	2	5	10	9	21	28	151	78	21	19	27	35	0	530
(1)	2.27	2.15	.41	.20	.08	.20	.41	.36	.85	1.14	6.12	3.16	.85	.77	1.09	1.42	.00	21.49
(2)	.09	.09	.02	.01	.00	.01	.02	.02	.04	.05	.25	.13	.04	.03	.05	.06	.00	.89
5.1- 6.0	37	29	2	5	1	1	10	7	15	19	57	95	26	6	16	34	0	360
(1)	1.50	1.18	.08	.20	.04	.04	.41	.28	.61	.77	2.31	3.85	1.05	.24	.65	1.38	.00	14.60
(2)	.06	.05	.00	.01	.00	.00	.02	.01	.03	.03	.10	.16	.04	.01	.03	.06	.00	.61

Table 2.3-29—{SSES 197' (60-m) 2001-2007 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 4.16**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	19	18	3	0	0	3	2	5	15	22	57	136	31	10	22	12	0	355
(1)	.77	.73	.12	.00	.00	.12	.08	.20	.61	.89	2.31	5.52	1.26	.41	.89	.49	.00	14.40
(2)	.03	.03	.01	.00	.00	.01	.00	.01	.03	.04	.10	.23	.05	.02	.04	.02	.00	.60
8.1-10.0	1	1	1	0	0	0	1	0	0	5	9	47	8	0	0	5	0	78
(1)	.04	.04	.04	.00	.00	.00	.04	.00	.00	.20	.36	1.91	.32	.00	.00	.20	.00	3.16
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.08	.01	.00	.00	.01	.00	.13
10.1-40.3	0	0	0	0	0	0	1	0	0	0	1	12	0	0	0	0	0	14
(1)	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00	.04	.49	.00	.00	.00	.00	.00	.57
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
ALL SPEEDS	174	231	134	78	47	34	57	46	114	202	526	458	109	55	86	115	0	2466
(1)	7.06	9.37	5.43	3.16	1.91	1.38	2.31	1.87	4.62	8.19	21.33	18.57	4.42	2.23	3.49	4.66	.00	100.00
(2)	.29	.39	.23	.13	.08	.06	.10	.08	.19	.34	.89	.77	.18	.09	.15	.19	.00	4.16

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-29—{SSES 197' (60-m) 2001-2007 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 40.94**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	3	1	2	5	1	0	2	1	1	2	0	1	0	1	0	0	20
(1)	.00	.01	.00	.01	.02	.00	.00	.01	.00	.00	.01	.00	.00	.00	.00	.00	.00	.08
(2)	.00	.01	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
.5- 1.0	30	88	168	156	110	117	109	95	98	70	47	21	10	9	7	11	0	1146
(1)	.12	.36	.69	.64	.45	.48	.45	.39	.40	.29	.19	.09	.04	.04	.03	.05	.00	4.72
(2)	.05	.15	.28	.26	.19	.20	.18	.16	.17	.12	.08	.04	.02	.02	.01	.02	.00	1.93
1.1- 1.5	64	193	228	137	82	63	89	117	148	182	159	49	13	11	12	30	0	1577
(1)	.26	.80	.94	.56	.34	.26	.37	.48	.61	.75	.66	.20	.05	.05	.05	.12	.00	6.50
(2)	.11	.33	.38	.23	.14	.11	.15	.20	.25	.31	.27	.08	.02	.02	.02	.05	.00	2.66
1.6- 2.0	83	177	169	94	89	69	77	83	113	232	279	110	29	17	18	23	0	1662
(1)	.34	.73	.70	.39	.37	.28	.32	.34	.47	.96	1.15	.45	.12	.07	.07	.09	.00	6.85
(2)	.14	.30	.29	.16	.15	.12	.13	.14	.19	.39	.47	.19	.05	.03	.03	.04	.00	2.80
2.1- 3.0	245	430	346	189	144	115	201	145	137	307	578	260	141	118	107	112	0	3575
(1)	1.01	1.77	1.43	.78	.59	.47	.83	.60	.56	1.27	2.38	1.07	.58	.49	.44	.46	.00	14.74
(2)	.41	.73	.58	.32	.24	.19	.34	.24	.23	.52	.98	.44	.24	.20	.18	.19	.00	6.03
3.1- 4.0	379	455	344	85	89	100	157	177	157	199	466	336	219	224	268	289	0	3944
(1)	1.56	1.88	1.42	.35	.37	.41	.65	.73	.65	.82	1.92	1.38	.90	.92	1.10	1.19	.00	16.26
(2)	.64	.77	.58	.14	.15	.17	.26	.30	.26	.34	.79	.57	.37	.38	.45	.49	.00	6.65
4.1- 5.0	405	414	216	61	56	92	132	136	180	176	412	481	297	284	458	468	0	4268
(1)	1.67	1.71	.89	.25	.23	.38	.54	.56	.74	.73	1.70	1.98	1.22	1.17	1.89	1.93	.00	17.59
(2)	.68	.70	.36	.10	.09	.16	.22	.23	.30	.30	.70	.81	.50	.48	.77	.79	.00	7.20
5.1- 6.0	242	300	114	21	31	49	91	79	124	170	311	592	328	265	419	389	0	3525
(1)	1.00	1.24	.47	.09	.13	.20	.38	.33	.51	.70	1.28	2.44	1.35	1.09	1.73	1.60	.00	14.53
(2)	.41	.51	.19	.04	.05	.08	.15	.13	.21	.29	.52	1.00	.55	.45	.71	.66	.00	5.95

Table 2.3-29—{SSES 197' (60-m) 2001-2007 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 40.94**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	96	160	55	12	19	33	41	55	77	137	255	1047	467	280	417	277	0	3428
(1)	.40	.66	.23	.05	.08	.14	.17	.23	.32	.56	1.05	4.32	1.92	1.15	1.72	1.14	.00	14.13
(2)	.16	.27	.09	.02	.03	.06	.07	.09	.13	.23	.43	1.77	.79	.47	.70	.47	.00	5.78
8.1-10.0	4	8	4	2	4	6	11	17	20	36	52	388	179	61	51	35	0	878
(1)	.02	.03	.02	.01	.02	.02	.05	.07	.08	.15	.21	1.60	.74	.25	.21	.14	.00	3.62
(2)	.01	.01	.01	.00	.01	.01	.02	.03	.03	.06	.09	.65	.30	.10	.09	.06	.00	1.48
10.1-40.3	1	2	1	3	1	3	3	6	9	11	4	136	48	8	1	0	0	237
(1)	.00	.01	.00	.01	.00	.01	.01	.02	.04	.05	.02	.56	.20	.03	.00	.00	.00	.98
(2)	.00	.00	.00	.01	.00	.01	.01	.01	.02	.02	.01	.23	.08	.01	.00	.00	.00	.40
ALL SPEEDS	1549	2230	1646	762	631	648	911	912	1064	1521	2565	3420	1732	1277	1759	1634	0	24261
(1)	6.38	9.19	6.78	3.14	2.60	2.67	3.75	3.76	4.39	6.27	10.57	14.10	7.14	5.26	7.25	6.74	.00	100.00
(2)	2.61	3.76	2.78	1.29	1.06	1.09	1.54	1.54	1.80	2.57	4.33	5.77	2.92	2.15	2.97	2.76	.00	40.94

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-29—{SSES 197' (60-m) 2001-2007 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS E — CLASS FREQUENCY (PERCENT) = 28.48

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	4
(1)	.00	.01	.01	.01	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
.2- .4	0	0	5	9	5	5	7	5	4	2	1	0	0	0	0	0	0	43
(1)	.00	.00	.03	.05	.03	.03	.04	.03	.02	.01	.01	.00	.00	.00	.00	.00	.00	.25
(2)	.00	.00	.01	.02	.01	.01	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.07
.5- 1.0	78	182	354	255	215	208	200	162	164	116	81	34	21	4	12	29	0	2115
(1)	.46	1.08	2.10	1.51	1.27	1.23	1.19	.96	.97	.69	.48	.20	.12	.02	.07	.17	.00	12.53
(2)	.13	.31	.60	.43	.36	.35	.34	.27	.28	.20	.14	.06	.04	.01	.02	.05	.00	3.57
1.1- 1.5	126	390	462	146	133	87	141	195	187	199	171	59	31	11	16	39	0	2393
(1)	.75	2.31	2.74	.87	.79	.52	.84	1.16	1.11	1.18	1.01	.35	.18	.07	.09	.23	.00	14.18
(2)	.21	.66	.78	.25	.22	.15	.24	.33	.32	.34	.29	.10	.05	.02	.03	.07	.00	4.04
1.6- 2.0	177	544	253	112	70	45	81	85	142	189	201	99	36	16	19	25	0	2094
(1)	1.05	3.22	1.50	.66	.41	.27	.48	.50	.84	1.12	1.19	.59	.21	.09	.11	.15	.00	12.41
(2)	.30	.92	.43	.19	.12	.08	.14	.14	.24	.32	.34	.17	.06	.03	.03	.04	.00	3.53
2.1- 3.0	329	776	362	165	108	95	102	165	191	283	436	216	100	94	59	71	0	3552
(1)	1.95	4.60	2.14	.98	.64	.56	.60	.98	1.13	1.68	2.58	1.28	.59	.56	.35	.42	.00	21.05
(2)	.56	1.31	.61	.28	.18	.16	.17	.28	.32	.48	.74	.36	.17	.16	.10	.12	.00	5.99
3.1- 4.0	189	331	271	63	63	55	81	132	200	343	396	263	90	48	92	90	0	2707
(1)	1.12	1.96	1.61	.37	.37	.33	.48	.78	1.19	2.03	2.35	1.56	.53	.28	.55	.53	.00	16.04
(2)	.32	.56	.46	.11	.11	.09	.14	.22	.34	.58	.67	.44	.15	.08	.16	.15	.00	4.57
4.1- 5.0	89	176	138	34	24	25	47	70	131	281	351	296	46	29	96	79	0	1912
(1)	.53	1.04	.82	.20	.14	.15	.28	.41	.78	1.66	2.08	1.75	.27	.17	.57	.47	.00	11.33
(2)	.15	.30	.23	.06	.04	.04	.08	.12	.22	.47	.59	.50	.08	.05	.16	.13	.00	3.23
5.1- 6.0	23	101	72	15	3	11	20	31	70	150	164	317	21	11	50	26	0	1085
(1)	.14	.60	.43	.09	.02	.07	.12	.18	.41	.89	.97	1.88	.12	.07	.30	.15	.00	6.43
(2)	.04	.17	.12	.03	.01	.02	.03	.05	.12	.25	.28	.53	.04	.02	.08	.04	.00	1.83

Table 2.3-29—{SSES 197' (60-m) 2001-2007 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 28.48**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	6	59	30	4	15	13	16	30	76	125	59	261	23	11	15	9	0	752
(1)	.04	.35	.18	.02	.09	.08	.09	.18	.45	.74	.35	1.55	.14	.07	.09	.05	.00	4.46
(2)	.01	.10	.05	.01	.03	.02	.03	.05	.13	.21	.10	.44	.04	.02	.03	.02	.00	1.27
8.1-10.0	0	3	10	2	0	11	14	14	30	37	12	23	4	0	0	0	0	160
(1)	.00	.02	.06	.01	.00	.07	.08	.08	.18	.22	.07	.14	.02	.00	.00	.00	.00	.95
(2)	.00	.01	.02	.00	.00	.02	.02	.02	.05	.06	.02	.04	.01	.00	.00	.00	.00	.27
10.1-40.3	0	5	3	3	2	2	5	8	16	6	4	5	1	0	0	0	0	60
(1)	.00	.03	.02	.02	.01	.01	.03	.05	.09	.04	.02	.03	.01	.00	.00	.00	.00	.36
(2)	.00	.01	.01	.01	.00	.00	.01	.01	.03	.01	.01	.01	.00	.00	.00	.00	.00	.10
ALL SPEEDS	1017	2568	1961	809	638	557	714	898	1211	1731	1876	1573	373	224	359	368	0	16877
(1)	6.03	15.22	11.62	4.79	3.78	3.30	4.23	5.32	7.18	10.26	11.12	9.32	2.21	1.33	2.13	2.18	.00	100.00
(2)	1.72	4.33	3.31	1.37	1.08	.94	1.20	1.52	2.04	2.92	3.17	2.65	.63	.38	.61	.62	.00	28.48

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-29—{SSES 197' (60-m) 2001-2007 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 11.56**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	1	1	6	6	3	3	0	1	0	1	0	0	0	0	0	0	0	22
(1)	.01	.01	.09	.09	.04	.04	.00	.01	.00	.01	.00	.00	.00	.00	.00	.00	.00	.32
(2)	.00	.00	.01	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
.5- 1.0	31	98	226	176	145	129	110	56	50	30	14	9	9	6	8	8	0	1105
(1)	.45	1.43	3.30	2.57	2.12	1.88	1.61	.82	.73	.44	.20	.13	.13	.09	.12	.12	.00	16.12
(2)	.05	.17	.38	.30	.24	.22	.19	.09	.08	.05	.02	.02	.02	.01	.01	.01	.00	1.86
1.1- 1.5	95	455	389	133	96	70	83	82	107	59	40	14	6	3	5	12	0	1649
(1)	1.39	6.64	5.68	1.94	1.40	1.02	1.21	1.20	1.56	.86	.58	.20	.09	.04	.07	.18	.00	24.06
(2)	.16	.77	.66	.22	.16	.12	.14	.14	.18	.10	.07	.02	.01	.01	.01	.02	.00	2.78
1.6- 2.0	155	711	218	40	31	20	18	38	70	86	51	16	8	10	10	10	0	1492
(1)	2.26	10.38	3.18	.58	.45	.29	.26	.55	1.02	1.25	.74	.23	.12	.15	.15	.15	.00	21.77
(2)	.26	1.20	.37	.07	.05	.03	.03	.06	.12	.15	.09	.03	.01	.02	.02	.02	.00	2.52
2.1- 3.0	289	806	134	17	21	10	13	20	66	127	163	22	11	13	19	18	0	1749
(1)	4.22	11.76	1.96	.25	.31	.15	.19	.29	.96	1.85	2.38	.32	.16	.19	.28	.26	.00	25.52
(2)	.49	1.36	.23	.03	.04	.02	.02	.03	.11	.21	.28	.04	.02	.02	.03	.03	.00	2.95
3.1- 4.0	50	97	31	1	5	3	7	11	26	67	121	69	5	2	14	5	0	514
(1)	.73	1.42	.45	.01	.07	.04	.10	.16	.38	.98	1.77	1.01	.07	.03	.20	.07	.00	7.50
(2)	.08	.16	.05	.00	.01	.01	.01	.02	.04	.11	.20	.12	.01	.00	.02	.01	.00	.87
4.1- 5.0	7	6	3	0	0	1	0	1	10	28	44	108	0	0	4	3	0	215
(1)	.10	.09	.04	.00	.00	.01	.00	.01	.15	.41	.64	1.58	.00	.00	.06	.04	.00	3.14
(2)	.01	.01	.01	.00	.00	.00	.00	.00	.02	.05	.07	.18	.00	.00	.01	.01	.00	.36
5.1- 6.0	3	0	0	0	1	0	0	0	2	6	14	56	0	0	0	1	0	83
(1)	.04	.00	.00	.00	.01	.00	.00	.00	.03	.09	.20	.82	.00	.00	.00	.01	.00	1.21
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.09	.00	.00	.00	.00	.00	.14

Table 2.3-29—{SSES 197' (60-m) 2001-2007 Annual JFD - continued}

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SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 11.56**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	0	0	0	0	0	0	1	1	1	1	15	1	0	1	0	0	22
(1)	.01	.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	.22	.01	.00	.01	.00	.00	.32
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.04
8.1-10.0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.01
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	632	2174	1008	373	302	236	231	210	332	406	448	309	40	34	61	57	0	6853
(1)	9.22	31.72	14.71	5.44	4.41	3.44	3.37	3.06	4.84	5.92	6.54	4.51	.58	.50	.89	.83	.00	100.00
(2)	1.07	3.67	1.70	.63	.51	.40	.39	.35	.56	.69	.76	.52	.07	.06	.10	.10	.00	11.56

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-29—{SSES 197' (60-m) 2001-2007 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS G — CLASS FREQUENCY (PERCENT) = 7.57

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	1	2	1	4	1	0	0	0	0	0	0	0	0	1	0	0	10
(1)	.00	.02	.04	.02	.09	.02	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.22
(2)	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	20	46	118	115	89	76	51	39	26	14	5	3	1	1	0	3	0	607
(1)	.45	1.03	2.63	2.56	1.98	1.69	1.14	.87	.58	.31	.11	.07	.02	.02	.00	.07	.00	13.54
(2)	.03	.08	.20	.19	.15	.13	.09	.07	.04	.02	.01	.01	.00	.00	.00	.01	.00	1.02
1.1- 1.5	45	280	328	123	88	71	63	59	69	41	21	4	4	5	4	6	0	1211
(1)	1.00	6.24	7.31	2.74	1.96	1.58	1.40	1.32	1.54	.91	.47	.09	.09	.11	.09	.13	.00	27.01
(2)	.08	.47	.55	.21	.15	.12	.11	.10	.12	.07	.04	.01	.01	.01	.01	.01	.00	2.04
1.6- 2.0	132	543	227	49	15	12	17	23	59	52	33	10	2	2	5	3	0	1184
(1)	2.94	12.11	5.06	1.09	.33	.27	.38	.51	1.32	1.16	.74	.22	.04	.04	.11	.07	.00	26.40
(2)	.22	.92	.38	.08	.03	.02	.03	.04	.10	.09	.06	.02	.00	.00	.01	.01	.00	2.00
2.1- 3.0	229	447	117	14	6	12	8	14	68	98	92	18	1	6	15	10	0	1155
(1)	5.11	9.97	2.61	.31	.13	.27	.18	.31	1.52	2.19	2.05	.40	.02	.13	.33	.22	.00	25.76
(2)	.39	.75	.20	.02	.01	.02	.01	.02	.11	.17	.16	.03	.00	.01	.03	.02	.00	1.95
3.1- 4.0	39	43	8	0	0	2	3	0	13	47	48	19	2	3	9	1	0	237
(1)	.87	.96	.18	.00	.00	.04	.07	.00	.29	1.05	1.07	.42	.04	.07	.20	.02	.00	5.29
(2)	.07	.07	.01	.00	.00	.00	.01	.00	.02	.08	.08	.03	.00	.01	.02	.00	.00	.40
4.1- 5.0	3	0	0	0	1	0	0	1	3	16	7	25	0	0	1	0	0	57
(1)	.07	.00	.00	.00	.02	.00	.00	.02	.07	.36	.16	.56	.00	.00	.02	.00	.00	1.27
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.01	.03	.01	.04	.00	.00	.00	.00	.00	.10
5.1- 6.0	0	0	0	0	0	0	0	1	1	4	1	8	0	0	0	0	0	15
(1)	.00	.00	.00	.00	.00	.00	.00	.02	.02	.09	.02	.18	.00	.00	.00	.00	.00	.33
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.01	.00	.00	.00	.00	.00	.03

Table 2.3-29—{SSES 197' (60-m) 2001-2007 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 7.57**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	1	1	6	0	0	0	0	0	8
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.13	.00	.00	.00	.00	.00	.18
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.01
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	468	1360	800	302	203	174	142	137	239	273	208	93	10	17	35	23	0	4484
(1)	10.44	30.33	17.84	6.74	4.53	3.88	3.17	3.06	5.33	6.09	4.64	2.07	.22	.38	.78	.51	.00	100.00
(2)	.79	2.29	1.35	.51	.34	.29	.24	.23	.40	.46	.35	.16	.02	.03	.06	.04	.00	7.57

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-29—{SSES 197' (60-m) 2001-2007 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS ALL — CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	1	2	1	1	0	0	1	0	0	0	0	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
.2- .4	1	5	14	18	17	10	7	8	5	4	3	0	1	0	2	0	0	95
(1)	.00	.01	.02	.03	.03	.02	.01	.01	.01	.01	.01	.00	.00	.00	.00	.00	.00	.16
(2)	.00	.01	.02	.03	.03	.02	.01	.01	.01	.01	.01	.00	.00	.00	.00	.00	.00	.16
.5- 1.0	159	418	882	726	578	549	482	359	361	239	152	68	42	21	28	52	0	5116
(1)	.27	.71	1.49	1.22	.98	.93	.81	.61	.61	.40	.26	.11	.07	.04	.05	.09	.00	8.63
(2)	.27	.71	1.49	1.22	.98	.93	.81	.61	.61	.40	.26	.11	.07	.04	.05	.09	.00	8.63
1.1- 1.5	340	1336	1453	592	437	317	397	468	547	538	423	133	56	32	39	89	0	7197
(1)	.57	2.25	2.45	1.00	.74	.53	.67	.79	.92	.91	.71	.22	.09	.05	.07	.15	.00	12.14
(2)	.57	2.25	2.45	1.00	.74	.53	.67	.79	.92	.91	.71	.22	.09	.05	.07	.15	.00	12.14
1.6- 2.0	562	2029	933	350	232	171	218	249	419	634	623	248	81	49	54	65	0	6917
(1)	.95	3.42	1.57	.59	.39	.29	.37	.42	.71	1.07	1.05	.42	.14	.08	.09	.11	.00	11.67
(2)	.95	3.42	1.57	.59	.39	.29	.37	.42	.71	1.07	1.05	.42	.14	.08	.09	.11	.00	11.67
2.1- 3.0	1124	2559	1074	425	297	258	362	379	512	972	1533	585	262	240	214	229	0	11025
(1)	1.90	4.32	1.81	.72	.50	.44	.61	.64	.86	1.64	2.59	.99	.44	.40	.36	.39	.00	18.60
(2)	1.90	4.32	1.81	.72	.50	.44	.61	.64	.86	1.64	2.59	.99	.44	.40	.36	.39	.00	18.60
3.1- 4.0	726	1050	755	163	169	170	280	348	442	772	1410	821	345	300	411	414	0	8576
(1)	1.22	1.77	1.27	.28	.29	.29	.47	.59	.75	1.30	2.38	1.39	.58	.51	.69	.70	.00	14.47
(2)	1.22	1.77	1.27	.28	.29	.29	.47	.59	.75	1.30	2.38	1.39	.58	.51	.69	.70	.00	14.47
4.1- 5.0	622	727	398	111	88	126	215	241	383	603	1268	1108	400	357	600	610	0	7857
(1)	1.05	1.23	.67	.19	.15	.21	.36	.41	.65	1.02	2.14	1.87	.67	.60	1.01	1.03	.00	13.26
(2)	1.05	1.23	.67	.19	.15	.21	.36	.41	.65	1.02	2.14	1.87	.67	.60	1.01	1.03	.00	13.26
5.1- 6.0	344	497	205	45	38	62	146	136	245	410	788	1209	415	294	498	471	0	5803
(1)	.58	.84	.35	.08	.06	.10	.25	.23	.41	.69	1.33	2.04	.70	.50	.84	.79	.00	9.79
(2)	.58	.84	.35	.08	.06	.10	.25	.23	.41	.69	1.33	2.04	.70	.50	.84	.79	.00	9.79

Table 2.3-29—{SSES 197' (60-m) 2001-2007 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC07 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	145	261	95	17	36	54	67	103	202	345	526	1676	543	301	466	311	0	5148
(1)	.24	.44	.16	.03	.06	.09	.11	.17	.34	.58	.89	2.83	.92	.51	.79	.52	.00	8.69
(2)	.24	.44	.16	.03	.06	.09	.11	.17	.34	.58	.89	2.83	.92	.51	.79	.52	.00	8.69
8.1-10.0	13	15	15	4	4	18	27	32	52	95	88	492	192	61	55	40	0	1203
(1)	.02	.03	.03	.01	.01	.03	.05	.05	.09	.16	.15	.83	.32	.10	.09	.07	.00	2.03
(2)	.02	.03	.03	.01	.01	.03	.05	.05	.09	.16	.15	.83	.32	.10	.09	.07	.00	2.03
10.1-40.3	1	7	4	6	3	5	9	14	26	17	15	158	49	8	1	1	0	324
(1)	.00	.01	.01	.01	.01	.01	.02	.02	.04	.03	.03	.27	.08	.01	.00	.00	.00	.55
(2)	.00	.01	.01	.01	.01	.01	.02	.02	.04	.03	.03	.27	.08	.01	.00	.00	.00	.55
ALL SPEEDS	4037	8905	5830	2458	1900	1740	2210	2338	3194	4629	6829	6498	2386	1663	2368	2282	0	59267
(1)	6.81	15.03	9.84	4.15	3.21	2.94	3.73	3.94	5.39	7.81	11.52	10.96	4.03	2.81	4.00	3.85	.00	100.00
(2)	6.81	15.03	9.84	4.15	3.21	2.94	3.73	3.94	5.39	7.81	11.52	10.96	4.03	2.81	4.00	3.85	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-30 {SSES 33' (10-m) 2001-2006 Annual JFD}

(Page 1 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 5.76**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	2	2	12	11	12	9	5	1	2	1	0	0	0	0	0	57
(1)	.00	.00	.07	.07	.40	.37	.40	.30	.17	.03	.07	.03	.00	.00	.00	.00	.00	1.90
(2)	.00	.00	.00	.00	.02	.02	.02	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.11
1.1- 1.5	2	12	30	36	35	35	24	24	37	35	32	15	5	2	2	4	0	330
(1)	.07	.40	1.00	1.20	1.17	1.17	.80	.80	1.23	1.17	1.07	.50	.17	.07	.07	.13	.00	10.99
(2)	.00	.02	.06	.07	.07	.07	.05	.05	.07	.07	.06	.03	.01	.00	.00	.01	.00	.63
1.6- 2.0	6	15	27	26	29	22	22	33	47	68	74	18	4	2	3	4	0	400
(1)	.20	.50	.90	.87	.97	.73	.73	1.10	1.56	2.26	2.46	.60	.13	.07	.10	.13	.00	13.32
(2)	.01	.03	.05	.05	.06	.04	.04	.06	.09	.13	.14	.03	.01	.00	.01	.01	.00	.77
2.1- 3.0	23	52	60	15	11	9	44	37	81	178	313	59	10	10	8	14	0	924
(1)	.77	1.73	2.00	.50	.37	.30	1.46	1.23	2.70	5.93	10.42	1.96	.33	.33	.27	.47	.00	30.76
(2)	.04	.10	.12	.03	.02	.02	.08	.07	.16	.34	.60	.11	.02	.02	.02	.03	.00	1.77
3.1- 4.0	57	65	22	1	1	3	21	23	52	103	299	81	24	13	10	14	0	789
(1)	1.90	2.16	.73	.03	.03	.10	.70	.77	1.73	3.43	9.95	2.70	.80	.43	.33	.47	.00	26.26
(2)	.11	.12	.04	.00	.00	.01	.04	.04	.10	.20	.57	.16	.05	.02	.02	.03	.00	1.51
4.1- 5.0	21	17	4	0	0	1	14	7	25	30	138	88	15	5	5	9	0	379
(1)	.70	.57	.13	.00	.00	.03	.47	.23	.83	1.00	4.59	2.93	.50	.17	.17	.30	.00	12.62
(2)	.04	.03	.01	.00	.00	.00	.03	.01	.05	.06	.26	.17	.03	.01	.01	.02	.00	.73
5.1- 6.0	9	2	0	0	0	1	2	0	0	3	40	32	3	0	3	5	0	100
(1)	.30	.07	.00	.00	.00	.03	.07	.00	.00	.10	1.33	1.07	.10	.00	.10	.17	.00	3.33
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.01	.08	.06	.01	.00	.01	.01	.00	.19

Table 2.3-30 {SSES 33' (10-m) 2001-2006 Annual JFD}

(Page 2 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 5.76**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	3	0	0	0	0	0	0	1	1	0	12	5	0	0	1	2	0	25
(1)	.10	.00	.00	.00	.00	.00	.00	.03	.03	.00	.40	.17	.00	.00	.03	.07	.00	.83
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.01	.00	.00	.00	.00	.00	.05
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	121	163	145	80	88	82	139	134	248	418	910	299	61	32	32	52	0	3004
(1)	4.03	5.43	4.83	2.66	2.93	2.73	4.63	4.46	8.26	13.91	30.29	9.95	2.03	1.07	1.07	1.73	.00	100.00
(2)	.23	.31	.28	.15	.17	.16	.27	.26	.48	.80	1.75	.57	.12	.06	.06	.10	.00	5.76

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-30—{SSES 33' (10-m) 2001-2006 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS B — CLASS FREQUENCY (PERCENT) = 3.07

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	2	0	3	2	13	11	5	3	5	2	1	1	0	1	1	0	0	50
(1)	.13	.00	.19	.13	.81	.69	.31	.19	.31	.13	.06	.06	.00	.06	.06	.00	.00	3.13
(2)	.00	.00	.01	.00	.02	.02	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.10
1.1- 1.5	7	2	17	25	17	11	11	10	18	19	13	2	0	1	0	0	0	153
(1)	.44	.13	1.06	1.56	1.06	.69	.69	.63	1.13	1.19	.81	.13	.00	.06	.00	.00	.00	9.57
(2)	.01	.00	.03	.05	.03	.02	.02	.02	.03	.04	.02	.00	.00	.00	.00	.00	.00	.29
1.6- 2.0	11	16	13	13	11	7	9	14	10	28	29	7	0	1	0	5	0	174
(1)	.69	1.00	.81	.81	.69	.44	.56	.88	.63	1.75	1.81	.44	.00	.06	.00	.31	.00	10.89
(2)	.02	.03	.02	.02	.02	.01	.02	.03	.02	.05	.06	.01	.00	.00	.00	.01	.00	.33
2.1- 3.0	10	50	41	7	7	3	20	11	25	66	118	25	10	2	10	7	0	412
(1)	.63	3.13	2.57	.44	.44	.19	1.25	.69	1.56	4.13	7.38	1.56	.63	.13	.63	.44	.00	25.78
(2)	.02	.10	.08	.01	.01	.01	.04	.02	.05	.13	.23	.05	.02	.00	.02	.01	.00	.79
3.1- 4.0	33	35	20	1	5	1	9	8	14	26	148	49	22	17	10	24	0	422
(1)	2.07	2.19	1.25	.06	.31	.06	.56	.50	.88	1.63	9.26	3.07	1.38	1.06	.63	1.50	.00	26.41
(2)	.06	.07	.04	.00	.01	.00	.02	.02	.03	.05	.28	.09	.04	.03	.02	.05	.00	.81
4.1- 5.0	19	13	2	0	2	1	3	2	4	8	91	48	19	12	9	21	0	254
(1)	1.19	.81	.13	.00	.13	.06	.19	.13	.25	.50	5.69	3.00	1.19	.75	.56	1.31	.00	15.89
(2)	.04	.02	.00	.00	.00	.00	.01	.00	.01	.02	.17	.09	.04	.02	.02	.04	.00	.49
5.1- 6.0	6	4	0	0	0	0	1	0	1	2	37	32	2	1	8	8	0	102
(1)	.38	.25	.00	.00	.00	.00	.06	.00	.06	.13	2.32	2.00	.13	.06	.50	.50	.00	6.38
(2)	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.07	.06	.00	.00	.02	.02	.00	.20

Table 2.3-30—{SSES 33' (10-m) 2001-2006 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.07**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	4	0	0	0	0	0	0	0	0	0	10	9	0	0	3	3	0	29
(1)	.25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.63	.56	.00	.00	.19	.19	.00	1.81
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.01	.01	.00	.06
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00	.00	.00	.06	.00	.13
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	92	120	96	48	55	34	58	48	77	151	448	173	53	35	41	69	0	1598
(1)	5.76	7.51	6.01	3.00	3.44	2.13	3.63	3.00	4.82	9.45	28.04	10.83	3.32	2.19	2.57	4.32	.00	100.00
(2)	.18	.23	.18	.09	.11	.07	.11	.09	.15	.29	.86	.33	.10	.07	.08	.13	.00	3.07

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-30—{SSES 33' (10-m) 2001-2006 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 4.25**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	2	5	5	15	21	14	10	10	3	2	0	0	1	0	0	0	88
(1)	.00	.09	.23	.23	.68	.95	.63	.45	.45	.14	.09	.00	.00	.05	.00	.00	.00	3.97
(2)	.00	.00	.01	.01	.03	.04	.03	.02	.02	.01	.00	.00	.00	.00	.00	.00	.00	.17
1.1- 1.5	7	13	14	25	27	16	13	11	27	26	19	2	8	1	1	3	0	213
(1)	.32	.59	.63	1.13	1.22	.72	.59	.50	1.22	1.17	.86	.09	.36	.05	.05	.14	.00	9.62
(2)	.01	.02	.03	.05	.05	.03	.02	.02	.05	.05	.04	.00	.02	.00	.00	.01	.00	.41
1.6- 2.0	10	22	21	21	11	14	13	15	20	34	47	14	8	5	3	3	0	261
(1)	.45	.99	.95	.95	.50	.63	.59	.68	.90	1.53	2.12	.63	.36	.23	.14	.14	.00	11.78
(2)	.02	.04	.04	.04	.02	.03	.02	.03	.04	.07	.09	.03	.02	.01	.01	.01	.00	.50
2.1- 3.0	38	70	47	13	7	6	17	15	39	73	167	55	10	8	11	16	0	592
(1)	1.72	3.16	2.12	.59	.32	.27	.77	.68	1.76	3.30	7.54	2.48	.45	.36	.50	.72	.00	26.73
(2)	.07	.13	.09	.02	.01	.01	.03	.03	.07	.14	.32	.11	.02	.02	.02	.03	.00	1.14
3.1- 4.0	73	42	6	3	3	4	18	11	30	27	148	65	22	17	28	29	0	526
(1)	3.30	1.90	.27	.14	.14	.18	.81	.50	1.35	1.22	6.68	2.93	.99	.77	1.26	1.31	.00	23.75
(2)	.14	.08	.01	.01	.01	.01	.03	.02	.06	.05	.28	.12	.04	.03	.05	.06	.00	1.01
4.1- 5.0	32	10	4	0	0	2	3	4	10	9	89	79	21	14	16	29	0	322
(1)	1.44	.45	.18	.00	.00	.09	.14	.18	.45	.41	4.02	3.57	.95	.63	.72	1.31	.00	14.54
(2)	.06	.02	.01	.00	.00	.00	.01	.01	.02	.02	.17	.15	.04	.03	.03	.06	.00	.62
5.1- 6.0	10	3	0	0	0	0	1	0	1	0	36	44	18	2	18	21	0	154
(1)	.45	.14	.00	.00	.00	.00	.05	.00	.05	.00	1.63	1.99	.81	.09	.81	.95	.00	6.95
(2)	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.07	.08	.03	.00	.03	.04	.00	.30

Table 2.3-30—{SSES 33' (10-m) 2001-2006 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 4.25**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	2	0	0	0	0	0	1	0	0	0	14	23	7	0	3	5	0	55
(1)	.09	.00	.00	.00	.00	.00	.05	.00	.00	.00	.63	1.04	.32	.00	.14	.23	.00	2.48
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.04	.01	.00	.01	.01	.00	.11
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.14	.00	.00	.00	.00	.00	.18
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.01
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	172	162	97	67	63	63	80	66	137	172	523	285	94	48	80	106	0	2215
(1)	7.77	7.31	4.38	3.02	2.84	2.84	3.61	2.98	6.19	7.77	23.61	12.87	4.24	2.17	3.61	4.79	.00	100.00
(2)	.33	.31	.19	.13	.12	.12	.15	.13	.26	.33	1.00	.55	.18	.09	.15	.20	.00	4.25

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-30—{SSES 33' (10-m) 2001-2006 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 38.76**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	1	1	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	7
(1)	.00	.00	.00	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
.2- .4	0	0	4	8	12	5	3	6	2	1	1	0	0	1	1	0	0	44
(1)	.00	.00	.02	.04	.06	.02	.01	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.22
(2)	.00	.00	.01	.02	.02	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08
.5- 1.0	32	114	199	228	298	278	220	143	146	80	47	24	9	4	22	18	0	1862
(1)	.16	.56	.99	1.13	1.48	1.38	1.09	.71	.72	.40	.23	.12	.04	.02	.11	.09	.00	9.22
(2)	.06	.22	.38	.44	.57	.53	.42	.27	.28	.15	.09	.05	.02	.01	.04	.03	.00	3.57
1.1- 1.5	106	291	295	216	174	149	221	179	261	285	211	96	41	35	37	33	0	2630
(1)	.52	1.44	1.46	1.07	.86	.74	1.09	.89	1.29	1.41	1.04	.48	.20	.17	.18	.16	.00	13.02
(2)	.20	.56	.57	.41	.33	.29	.42	.34	.50	.55	.40	.18	.08	.07	.07	.06	.00	5.05
1.6- 2.0	159	317	282	131	108	116	190	162	202	303	264	124	89	55	54	61	0	2617
(1)	.79	1.57	1.40	.65	.53	.57	.94	.80	1.00	1.50	1.31	.61	.44	.27	.27	.30	.00	12.95
(2)	.31	.61	.54	.25	.21	.22	.36	.31	.39	.58	.51	.24	.17	.11	.10	.12	.00	5.02
2.1- 3.0	497	598	415	113	92	164	256	232	313	458	664	285	207	206	253	331	0	5084
(1)	2.46	2.96	2.05	.56	.46	.81	1.27	1.15	1.55	2.27	3.29	1.41	1.02	1.02	1.25	1.64	.00	25.17
(2)	.95	1.15	.80	.22	.18	.31	.49	.45	.60	.88	1.27	.55	.40	.40	.49	.64	.00	9.76
3.1- 4.0	460	281	111	40	29	47	115	86	107	158	627	323	220	233	408	456	0	3701
(1)	2.28	1.39	.55	.20	.14	.23	.57	.43	.53	.78	3.10	1.60	1.09	1.15	2.02	2.26	.00	18.32
(2)	.88	.54	.21	.08	.06	.09	.22	.17	.21	.30	1.20	.62	.42	.45	.78	.88	.00	7.10
4.1- 5.0	200	60	14	6	11	17	26	27	44	33	376	338	229	196	382	395	0	2354
(1)	.99	.30	.07	.03	.05	.08	.13	.13	.22	.16	1.86	1.67	1.13	.97	1.89	1.96	.00	11.65
(2)	.38	.12	.03	.01	.02	.03	.05	.05	.08	.06	.72	.65	.44	.38	.73	.76	.00	4.52
5.1- 6.0	40	8	5	2	4	6	10	12	9	6	170	251	128	126	251	182	0	1210
(1)	.20	.04	.02	.01	.02	.03	.05	.06	.04	.03	.84	1.24	.63	.62	1.24	.90	.00	5.99
(2)	.08	.02	.01	.00	.01	.01	.02	.02	.02	.01	.33	.48	.25	.24	.48	.35	.00	2.32

Table 2.3-30—{SSES 33' (10-m) 2001-2006 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 38.76**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	6	1	1	2	0	3	5	8	7	2	75	192	91	66	82	72	0	613
(1)	.03	.00	.00	.01	.00	.01	.02	.04	.03	.01	.37	.95	.45	.33	.41	.36	.00	3.03
(2)	.01	.00	.00	.00	.00	.01	.01	.02	.01	.00	.14	.37	.17	.13	.16	.14	.00	1.18
8.1-10.0	0	0	0	0	0	0	1	0	2	0	5	44	17	4	2	2	0	77
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.02	.22	.08	.02	.01	.01	.00	.38
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.08	.03	.01	.00	.00	.00	.15
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	1501	1671	1327	748	730	785	1047	855	1093	1326	2440	1678	1032	926	1492	1550	0	20201
(1)	7.43	8.27	6.57	3.70	3.61	3.89	5.18	4.23	5.41	6.56	12.08	8.31	5.11	4.58	7.39	7.67	.00	100.00
(2)	2.88	3.21	2.55	1.44	1.40	1.51	2.01	1.64	2.10	2.54	4.68	3.22	1.98	1.78	2.86	2.97	.00	38.76

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-30—{SSES 33' (10-m) 2001-2006 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS E — CLASS FREQUENCY (PERCENT) = 28.78

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	3	5	3	1	0	0	0	1	0	0	0	0	0	0	0	13
(1)	.00	.00	.02	.03	.02	.01	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.09
(2)	.00	.00	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.2- .4	0	4	13	18	34	22	21	16	5	3	1	0	1	0	0	1	0	139
(1)	.00	.03	.09	.12	.23	.15	.14	.11	.03	.02	.01	.00	.01	.00	.00	.01	.00	.93
(2)	.00	.01	.02	.03	.07	.04	.04	.03	.01	.01	.00	.00	.00	.00	.00	.00	.00	.27
.5- 1.0	86	246	662	1121	965	624	584	399	369	199	74	23	20	15	13	18	0	5418
(1)	.57	1.64	4.41	7.48	6.44	4.16	3.89	2.66	2.46	1.33	.49	.15	.13	.10	.09	.12	.00	36.13
(2)	.17	.47	1.27	2.15	1.85	1.20	1.12	.77	.71	.38	.14	.04	.04	.03	.02	.03	.00	10.40
1.1- 1.5	143	475	648	457	145	118	196	262	478	438	205	73	47	22	25	34	0	3766
(1)	.95	3.17	4.32	3.05	.97	.79	1.31	1.75	3.19	2.92	1.37	.49	.31	.15	.17	.23	.00	25.11
(2)	.27	.91	1.24	.88	.28	.23	.38	.50	.92	.84	.39	.14	.09	.04	.05	.07	.00	7.23
1.6- 2.0	188	381	240	77	38	48	54	123	227	422	209	107	41	30	38	42	0	2265
(1)	1.25	2.54	1.60	.51	.25	.32	.36	.82	1.51	2.81	1.39	.71	.27	.20	.25	.28	.00	15.10
(2)	.36	.73	.46	.15	.07	.09	.10	.24	.44	.81	.40	.21	.08	.06	.07	.08	.00	4.35
2.1- 3.0	213	327	179	30	34	43	56	78	177	336	350	91	61	36	79	133	0	2223
(1)	1.42	2.18	1.19	.20	.23	.29	.37	.52	1.18	2.24	2.33	.61	.41	.24	.53	.89	.00	14.82
(2)	.41	.63	.34	.06	.07	.08	.11	.15	.34	.64	.67	.17	.12	.07	.15	.26	.00	4.27
3.1- 4.0	67	96	57	14	12	17	19	31	62	73	173	58	17	17	26	59	0	798
(1)	.45	.64	.38	.09	.08	.11	.13	.21	.41	.49	1.15	.39	.11	.11	.17	.39	.00	5.32
(2)	.13	.18	.11	.03	.02	.03	.04	.06	.12	.14	.33	.11	.03	.03	.05	.11	.00	1.53
4.1- 5.0	13	14	7	2	5	4	12	19	27	27	48	18	6	2	11	16	0	231
(1)	.09	.09	.05	.01	.03	.03	.08	.13	.18	.18	.32	.12	.04	.01	.07	.11	.00	1.54
(2)	.02	.03	.01	.00	.01	.01	.02	.04	.05	.05	.09	.03	.01	.00	.02	.03	.00	.44
5.1- 6.0	4	1	5	3	1	8	8	8	16	6	11	10	2	4	2	2	0	91
(1)	.03	.01	.03	.02	.01	.05	.05	.05	.11	.04	.07	.07	.01	.03	.01	.01	.00	.61
(2)	.01	.00	.01	.01	.00	.02	.02	.02	.03	.01	.02	.02	.00	.01	.00	.00	.00	.17

Table 2.3-30—{SSES 33' (10-m) 2001-2006 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 28.78**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	3	0	2	2	2	8	8	7	1	5	8	0	0	1	1	0	48
(1)	.00	.02	.00	.01	.01	.01	.05	.05	.05	.01	.03	.05	.00	.00	.01	.01	.00	.32
(2)	.00	.01	.00	.00	.00	.00	.02	.02	.01	.00	.01	.02	.00	.00	.00	.00	.00	.09
8.1-10.0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	3
(1)	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00	.00	.00	.00	.00	.02
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.01
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	714	1548	1814	1729	1239	887	958	944	1368	1506	1077	390	195	126	195	306	0	14996
(1)	4.76	10.32	12.10	11.53	8.26	5.91	6.39	6.30	9.12	10.04	7.18	2.60	1.30	.84	1.30	2.04	.00	100.00
(2)	1.37	2.97	3.48	3.32	2.38	1.70	1.84	1.81	2.63	2.89	2.07	.75	.37	.24	.37	.59	.00	28.78

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-30—{SSES 33' (10-m) 2001-2006 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 11.95

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	4
(1)	.00	.02	.02	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
.2- .4	1	3	4	14	27	9	6	3	2	0	2	0	1	0	0	0	0	72
(1)	.02	.05	.06	.22	.43	.14	.10	.05	.03	.00	.03	.00	.02	.00	.00	.00	.00	1.16
(2)	.00	.01	.01	.03	.05	.02	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
.5- 1.0	14	83	460	1654	877	346	209	152	145	42	19	7	5	2	7	6	0	4028
(1)	.22	1.33	7.39	26.56	14.08	5.56	3.36	2.44	2.33	.67	.31	.11	.08	.03	.11	.10	.00	64.68
(2)	.03	.16	.88	3.17	1.68	.66	.40	.29	.28	.08	.04	.01	.01	.00	.01	.01	.00	7.73
1.1- 1.5	24	94	324	927	85	19	29	54	111	77	30	6	2	3	3	5	0	1793
(1)	.39	1.51	5.20	14.88	1.36	.31	.47	.87	1.78	1.24	.48	.10	.03	.05	.05	.08	.00	28.79
(2)	.05	.18	.62	1.78	.16	.04	.06	.10	.21	.15	.06	.01	.00	.01	.01	.01	.00	3.44
1.6- 2.0	9	46	47	75	2	1	1	11	15	37	17	5	0	0	2	3	0	271
(1)	.14	.74	.75	1.20	.03	.02	.02	.18	.24	.59	.27	.08	.00	.00	.03	.05	.00	4.35
(2)	.02	.09	.09	.14	.00	.00	.00	.02	.03	.07	.03	.01	.00	.00	.00	.01	.00	.52
2.1- 3.0	4	8	1	0	0	0	0	1	3	5	19	5	2	1	1	3	0	53
(1)	.06	.13	.02	.00	.00	.00	.00	.02	.05	.08	.31	.08	.03	.02	.02	.05	.00	.85
(2)	.01	.02	.00	.00	.00	.00	.00	.00	.01	.01	.04	.01	.00	.00	.00	.01	.00	.10
3.1- 4.0	2	1	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	7
(1)	.03	.02	.02	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02	.02	.00	.11
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-30—{SSES 33' (10-m) 2001-2006 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 11.95**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	54	236	838	2671	992	375	245	221	276	162	87	23	10	6	14	18	0	6228
(1)	.87	3.79	13.46	42.89	15.93	6.02	3.93	3.55	4.43	2.60	1.40	.37	.16	.10	.22	.29	.00	100.00
(2)	.10	.45	1.61	5.13	1.90	.72	.47	.42	.53	.31	.17	.04	.02	.01	.03	.03	.00	11.95

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-30—{SSES 33' (10-m) 2001-2006 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS G — CLASS FREQUENCY (PERCENT) = 7.43

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.03	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	1	0	0	3	3	2	1	0	0	0	0	0	0	0	0	0	0	10
(1)	.03	.00	.00	.08	.08	.05	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.26
(2)	.00	.00	.00	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	8	32	398	1281	403	129	71	48	24	8	4	1	0	0	2	2	0	2411
(1)	.21	.83	10.28	33.09	10.41	3.33	1.83	1.24	.62	.21	.10	.03	.00	.00	.05	.05	.00	62.28
(2)	.02	.06	.76	2.46	.77	.25	.14	.09	.05	.02	.01	.00	.00	.00	.00	.00	.00	4.63
1.1- 1.5	2	14	225	977	46	13	9	10	21	7	2	0	0	0	0	2	0	1328
(1)	.05	.36	5.81	25.24	1.19	.34	.23	.26	.54	.18	.05	.00	.00	.00	.00	.05	.00	34.31
(2)	.00	.03	.43	1.87	.09	.02	.02	.02	.04	.01	.00	.00	.00	.00	.00	.00	.00	2.55
1.6- 2.0	2	4	24	71	1	1	0	1	0	4	3	0	0	0	0	0	0	111
(1)	.05	.10	.62	1.83	.03	.03	.00	.03	.00	.10	.08	.00	.00	.00	.00	.00	.00	2.87
(2)	.00	.01	.05	.14	.00	.00	.00	.00	.00	.01	.01	.00	.00	.00	.00	.00	.00	.21
2.1- 3.0	0	2	2	1	0	0	2	0	0	2	0	0	0	0	0	0	0	9
(1)	.00	.05	.05	.03	.00	.00	.05	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.23
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-30—{SSES 33' (10-m) 2001-2006 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 7.43**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	14	52	649	2334	453	145	83	59	45	21	9	1	0	0	2	4	0	3871
(1)	.36	1.34	16.77	60.29	11.70	3.75	2.14	1.52	1.16	.54	.23	.03	.00	.00	.05	.10	.00	100.00
(2)	.03	.10	1.25	4.48	.87	.28	.16	.11	.09	.04	.02	.00	.00	.00	.00	.01	.00	7.43

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-30—{SSES 33' (10-m) 2001-2006 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	2	2	5	9	6	1	0	0	0	1	0	0	0	0	0	0	0	26
(1)	.00	.00	.01	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
(2)	.00	.00	.01	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
.2- .4	2	7	21	43	76	38	31	25	9	4	4	0	2	1	1	1	0	265
(1)	.00	.01	.04	.08	.15	.07	.06	.05	.02	.01	.01	.00	.00	.00	.00	.00	.00	.51
(2)	.00	.01	.04	.08	.15	.07	.06	.05	.02	.01	.01	.00	.00	.00	.00	.00	.00	.51
.5- 1.0	142	477	1729	4293	2583	1420	1115	764	704	335	149	57	34	23	45	44	0	13914
(1)	.27	.92	3.32	8.24	4.96	2.72	2.14	1.47	1.35	.64	.29	.11	.07	.04	.09	.08	.00	26.70
(2)	.27	.92	3.32	8.24	4.96	2.72	2.14	1.47	1.35	.64	.29	.11	.07	.04	.09	.08	.00	26.70
1.1- 1.5	291	901	1553	2663	529	361	503	550	953	887	512	194	103	64	68	81	0	10213
(1)	.56	1.73	2.98	5.11	1.02	.69	.97	1.06	1.83	1.70	.98	.37	.20	.12	.13	.16	.00	19.60
(2)	.56	1.73	2.98	5.11	1.02	.69	.97	1.06	1.83	1.70	.98	.37	.20	.12	.13	.16	.00	19.60
1.6- 2.0	385	801	654	414	200	209	289	359	521	896	643	275	142	93	100	118	0	6099
(1)	.74	1.54	1.25	.79	.38	.40	.55	.69	1.00	1.72	1.23	.53	.27	.18	.19	.23	.00	11.70
(2)	.74	1.54	1.25	.79	.38	.40	.55	.69	1.00	1.72	1.23	.53	.27	.18	.19	.23	.00	11.70
2.1- 3.0	785	1107	745	179	151	225	395	374	638	1118	1631	520	300	263	362	504	0	9297
(1)	1.51	2.12	1.43	.34	.29	.43	.76	.72	1.22	2.15	3.13	1.00	.58	.50	.69	.97	.00	17.84
(2)	1.51	2.12	1.43	.34	.29	.43	.76	.72	1.22	2.15	3.13	1.00	.58	.50	.69	.97	.00	17.84
3.1- 4.0	692	520	217	59	50	72	182	159	265	388	1395	576	305	297	483	583	0	6243
(1)	1.33	1.00	.42	.11	.10	.14	.35	.31	.51	.74	2.68	1.11	.59	.57	.93	1.12	.00	11.98
(2)	1.33	1.00	.42	.11	.10	.14	.35	.31	.51	.74	2.68	1.11	.59	.57	.93	1.12	.00	11.98
4.1- 5.0	285	114	31	8	18	25	58	59	110	107	742	571	290	229	423	470	0	3540
(1)	.55	.22	.06	.02	.03	.05	.11	.11	.21	.21	1.42	1.10	.56	.44	.81	.90	.00	6.79
(2)	.55	.22	.06	.02	.03	.05	.11	.11	.21	.21	1.42	1.10	.56	.44	.81	.90	.00	6.79
5.1- 6.0	69	18	10	5	5	15	22	20	27	17	294	369	153	133	282	218	0	1657
(1)	.13	.03	.02	.01	.01	.03	.04	.04	.05	.03	.56	.71	.29	.26	.54	.42	.00	3.18
(2)	.13	.03	.02	.01	.01	.03	.04	.04	.05	.03	.56	.71	.29	.26	.54	.42	.00	3.18

Table 2.3-30—{SSES 33' (10-m) 2001-2006 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	15	4	1	4	2	5	14	17	15	3	116	237	98	66	90	83	0	770
(1)	.03	.01	.00	.01	.00	.01	.03	.03	.03	.01	.22	.45	.19	.13	.17	.16	.00	1.48
(2)	.03	.01	.00	.01	.00	.01	.03	.03	.03	.01	.22	.45	.19	.13	.17	.16	.00	1.48
8.1-10.0	0	1	0	0	0	0	1	0	2	0	8	48	17	4	2	3	0	86
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.09	.03	.01	.00	.01	.00	.17
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.09	.03	.01	.00	.01	.00	.17
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
ALL SPEEDS	2668	3952	4966	7677	3620	2371	2610	2327	3244	3756	5494	2849	1445	1173	1856	2105	0	52113
(1)	5.12	7.58	9.53	14.73	6.95	4.55	5.01	4.47	6.22	7.21	10.54	5.47	2.77	2.25	3.56	4.04	.00	100.00
(2)	5.12	7.58	9.53	14.73	6.95	4.55	5.01	4.47	6.22	7.21	10.54	5.47	2.77	2.25	3.56	4.04	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-31 {SSES 197' (60-m) 2001-2006 Annual JFD}

(Page 1 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS A — CLASS FREQUENCY (PERCENT) = 5.24

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	2	4	7	7	10	5	2	7	2	3	0	0	0	1	0	0	50
(1)	.00	.08	.15	.26	.26	.38	.19	.08	.26	.08	.11	.00	.00	.00	.04	.00	.00	1.89
(2)	.00	.00	.01	.01	.01	.02	.01	.00	.01	.00	.01	.00	.00	.00	.00	.00	.00	.10
1.1- 1.5	1	4	23	24	12	11	11	4	18	23	19	5	1	1	1	0	0	158
(1)	.04	.15	.87	.90	.45	.41	.41	.15	.68	.87	.72	.19	.04	.04	.04	.00	.00	5.96
(2)	.00	.01	.05	.05	.02	.02	.02	.01	.04	.05	.04	.01	.00	.00	.00	.00	.00	.31
1.6- 2.0	3	14	27	28	12	12	17	14	19	35	26	9	2	2	1	0	0	221
(1)	.11	.53	1.02	1.06	.45	.45	.64	.53	.72	1.32	.98	.34	.08	.08	.04	.00	.00	8.33
(2)	.01	.03	.05	.06	.02	.02	.03	.03	.04	.07	.05	.02	.00	.00	.00	.00	.00	.44
2.1- 3.0	7	32	49	12	11	14	20	21	27	83	120	30	1	0	5	4	0	436
(1)	.26	1.21	1.85	.45	.41	.53	.75	.79	1.02	3.13	4.52	1.13	.04	.00	.19	.15	.00	16.44
(2)	.01	.06	.10	.02	.02	.03	.04	.04	.05	.16	.24	.06	.00	.00	.01	.01	.00	.86
3.1- 4.0	21	33	37	4	3	4	16	14	24	54	157	50	11	8	6	9	0	451
(1)	.79	1.24	1.40	.15	.11	.15	.60	.53	.90	2.04	5.92	1.89	.41	.30	.23	.34	.00	17.01
(2)	.04	.07	.07	.01	.01	.01	.03	.03	.05	.11	.31	.10	.02	.02	.01	.02	.00	.89
4.1- 5.0	41	45	15	10	1	1	18	17	24	54	182	71	15	10	4	8	0	516
(1)	1.55	1.70	.57	.38	.04	.04	.68	.64	.90	2.04	6.86	2.68	.57	.38	.15	.30	.00	19.46
(2)	.08	.09	.03	.02	.00	.00	.04	.03	.05	.11	.36	.14	.03	.02	.01	.02	.00	1.02
5.1- 6.0	15	40	8	3	0	1	18	14	25	40	160	93	21	3	4	5	0	450
(1)	.57	1.51	.30	.11	.00	.04	.68	.53	.94	1.51	6.03	3.51	.79	.11	.15	.19	.00	16.97
(2)	.03	.08	.02	.01	.00	.00	.04	.03	.05	.08	.32	.18	.04	.01	.01	.01	.00	.89

Table 2.3-31 {SSES 197' (60-m) 2001-2006 Annual JFD}

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SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 5.24**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	11	12	2	1	0	3	4	7	27	48	90	105	6	0	4	4	0	324
(1)	.41	.45	.08	.04	.00	.11	.15	.26	1.02	1.81	3.39	3.96	.23	.00	.15	.15	.00	12.22
(2)	.02	.02	.00	.00	.00	.01	.01	.01	.05	.09	.18	.21	.01	.00	.01	.01	.00	.64
8.1-10.0	4	1	0	0	0	1	1	1	1	9	7	15	0	0	1	0	0	41
(1)	.15	.04	.00	.00	.00	.04	.04	.04	.04	.34	.26	.57	.00	.00	.04	.00	.00	1.55
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.02	.01	.03	.00	.00	.00	.00	.00	.08
10.1-40.3	0	0	0	0	0	0	0	0	1	0	1	3	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.04	.11	.00	.00	.00	.00	.00	.19
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.01
ALL SPEEDS	103	183	165	89	46	57	110	94	173	348	765	381	57	24	27	30	0	2652
(1)	3.88	6.90	6.22	3.36	1.73	2.15	4.15	3.54	6.52	13.12	28.85	14.37	2.15	.90	1.02	1.13	.00	100.00
(2)	.20	.36	.33	.18	.09	.11	.22	.19	.34	.69	1.51	.75	.11	.05	.05	.06	.00	5.24

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-31—{SSES 197' (60-m) 2001-2006 Annual JFD - continued}
(Page 1 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS B — CLASS FREQUENCY (PERCENT) = 3.06

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	5	5	5	5	3	2	3	4	0	1	0	0	0	1	0	34
(1)	.00	.00	.32	.32	.32	.32	.19	.13	.19	.26	.00	.06	.00	.00	.00	.06	.00	2.20
(2)	.00	.00	.01	.01	.01	.01	.01	.00	.01	.01	.00	.00	.00	.00	.00	.00	.00	.07
1.1- 1.5	3	6	10	10	8	8	5	3	6	11	4	1	0	0	1	0	0	76
(1)	.19	.39	.65	.65	.52	.52	.32	.19	.39	.71	.26	.06	.00	.00	.06	.00	.00	4.91
(2)	.01	.01	.02	.02	.02	.02	.01	.01	.01	.02	.01	.00	.00	.00	.00	.00	.00	.15
1.6- 2.0	3	15	21	11	1	9	2	2	6	13	15	0	1	0	1	2	0	102
(1)	.19	.97	1.36	.71	.06	.58	.13	.13	.39	.84	.97	.00	.06	.00	.06	.13	.00	6.59
(2)	.01	.03	.04	.02	.00	.02	.00	.00	.01	.03	.03	.00	.00	.00	.00	.00	.00	.20
2.1- 3.0	11	21	25	8	5	4	9	8	7	29	53	11	3	3	3	5	0	205
(1)	.71	1.36	1.61	.52	.32	.26	.58	.52	.45	1.87	3.42	.71	.19	.19	.19	.32	.00	13.24
(2)	.02	.04	.05	.02	.01	.01	.02	.02	.01	.06	.10	.02	.01	.01	.01	.01	.00	.40
3.1- 4.0	14	35	21	6	5	2	7	9	7	19	78	26	5	5	7	4	0	250
(1)	.90	2.26	1.36	.39	.32	.13	.45	.58	.45	1.23	5.04	1.68	.32	.32	.45	.26	.00	16.15
(2)	.03	.07	.04	.01	.01	.00	.01	.02	.01	.04	.15	.05	.01	.01	.01	.01	.00	.49
4.1- 5.0	18	29	15	1	4	2	8	7	13	16	99	48	21	15	10	17	0	323
(1)	1.16	1.87	.97	.06	.26	.13	.52	.45	.84	1.03	6.40	3.10	1.36	.97	.65	1.10	.00	20.87
(2)	.04	.06	.03	.00	.01	.00	.02	.01	.03	.03	.20	.09	.04	.03	.02	.03	.00	.64
5.1- 6.0	20	23	7	1	2	0	7	3	8	21	71	45	19	9	9	16	0	261
(1)	1.29	1.49	.45	.06	.13	.00	.45	.19	.52	1.36	4.59	2.91	1.23	.58	.58	1.03	.00	16.86
(2)	.04	.05	.01	.00	.00	.00	.01	.01	.02	.04	.14	.09	.04	.02	.02	.03	.00	.52

Table 2.3-31—{SSES 197' (60-m) 2001-2006 Annual JFD - continued}

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SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.06**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	12	10	2	0	2	2	4	5	5	11	59	103	15	0	7	9	0	246
(1)	.78	.65	.13	.00	.13	.13	.26	.32	.32	.71	3.81	6.65	.97	.00	.45	.58	.00	15.89
(2)	.02	.02	.00	.00	.00	.00	.01	.01	.01	.02	.12	.20	.03	.00	.01	.02	.00	.49
8.1-10.0	4	2	0	0	0	0	0	0	1	7	8	17	1	0	3	0	0	43
(1)	.26	.13	.00	.00	.00	.00	.00	.00	.06	.45	.52	1.10	.06	.00	.19	.00	.00	2.78
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.03	.00	.00	.01	.00	.00	.08
10.1-40.3	0	0	0	0	0	0	0	0	0	0	5	2	0	0	0	1	0	8
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.32	.13	.00	.00	.00	.06	.00	.52
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.02
ALL SPEEDS	85	141	106	42	32	32	45	39	56	131	392	254	65	32	41	55	0	1548
(1)	5.49	9.11	6.85	2.71	2.07	2.07	2.91	2.52	3.62	8.46	25.32	16.41	4.20	2.07	2.65	3.55	.00	100.00
(2)	.17	.28	.21	.08	.06	.06	.09	.08	.11	.26	.77	.50	.13	.06	.08	.11	.00	3.06

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-31—{SSES 197' (60-m) 2001-2006 Annual JFD - continued}

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SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 4.26**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	2	6	11	7	3	4	3	11	3	2	0	1	1	0	0	0	54
(1)	.00	.09	.28	.51	.32	.14	.19	.14	.51	.14	.09	.00	.05	.05	.00	.00	.00	2.50
(2)	.00	.00	.01	.02	.01	.01	.01	.01	.02	.01	.00	.00	.00	.00	.00	.00	.00	.11
1.1- 1.5	5	8	10	15	16	6	5	7	11	22	9	1	1	1	0	2	0	119
(1)	.23	.37	.46	.70	.74	.28	.23	.32	.51	1.02	.42	.05	.05	.05	.00	.09	.00	5.52
(2)	.01	.02	.02	.03	.03	.01	.01	.01	.02	.04	.02	.00	.00	.00	.00	.00	.00	.24
1.6- 2.0	9	21	16	14	13	4	6	4	10	25	15	4	3	1	0	2	0	147
(1)	.42	.97	.74	.65	.60	.19	.28	.19	.46	1.16	.70	.19	.14	.05	.00	.09	.00	6.82
(2)	.02	.04	.03	.03	.03	.01	.01	.01	.02	.05	.03	.01	.01	.00	.00	.00	.00	.29
2.1- 3.0	13	39	30	18	2	8	9	6	16	42	80	28	5	6	4	7	0	313
(1)	.60	1.81	1.39	.83	.09	.37	.42	.28	.74	1.95	3.71	1.30	.23	.28	.19	.32	.00	14.52
(2)	.03	.08	.06	.04	.00	.02	.02	.01	.03	.08	.16	.06	.01	.01	.01	.01	.00	.62
3.1- 4.0	27	45	31	3	4	4	9	5	13	22	96	53	13	9	15	12	0	361
(1)	1.25	2.09	1.44	.14	.19	.19	.42	.23	.60	1.02	4.45	2.46	.60	.42	.70	.56	.00	16.74
(2)	.05	.09	.06	.01	.01	.01	.02	.01	.03	.04	.19	.10	.03	.02	.03	.02	.00	.71
4.1- 5.0	43	38	7	3	2	5	10	9	19	26	112	67	20	19	22	27	0	429
(1)	1.99	1.76	.32	.14	.09	.23	.46	.42	.88	1.21	5.19	3.11	.93	.88	1.02	1.25	.00	19.90
(2)	.08	.08	.01	.01	.00	.01	.02	.02	.04	.05	.22	.13	.04	.04	.04	.05	.00	.85
5.1- 6.0	30	26	2	5	1	1	10	7	14	19	47	82	26	6	13	30	0	319
(1)	1.39	1.21	.09	.23	.05	.05	.46	.32	.65	.88	2.18	3.80	1.21	.28	.60	1.39	.00	14.80
(2)	.06	.05	.00	.01	.00	.00	.02	.01	.03	.04	.09	.16	.05	.01	.03	.06	.00	.63

Table 2.3-31—{SSES 197' (60-m) 2001-2006 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 4.26**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	19	13	3	0	0	3	2	5	14	22	54	128	30	10	17	11	0	331
(1)	.88	.60	.14	.00	.00	.14	.09	.23	.65	1.02	2.50	5.94	1.39	.46	.79	.51	.00	15.35
(2)	.04	.03	.01	.00	.00	.01	.00	.01	.03	.04	.11	.25	.06	.02	.03	.02	.00	.65
8.1-10.0	1	1	0	0	0	0	1	0	0	5	7	42	8	0	0	5	0	70
(1)	.05	.05	.00	.00	.00	.00	.05	.00	.00	.23	.32	1.95	.37	.00	.00	.23	.00	3.25
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.08	.02	.00	.00	.01	.00	.14
10.1-40.3	0	0	0	0	0	0	1	0	0	0	1	11	0	0	0	0	0	13
(1)	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.05	.51	.00	.00	.00	.00	.00	.60
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.03
ALL SPEEDS	147	193	105	69	45	34	57	46	108	186	423	416	107	53	71	96	0	2156
(1)	6.82	8.95	4.87	3.20	2.09	1.58	2.64	2.13	5.01	8.63	19.62	19.29	4.96	2.46	3.29	4.45	.00	100.00
(2)	.29	.38	.21	.14	.09	.07	.11	.09	.21	.37	.84	.82	.21	.10	.14	.19	.00	4.26

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-31—{SSES 197' (60-m) 2001-2006 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS D — CLASS FREQUENCY (PERCENT) = 39.44

	WIND DIRECTION FROM																	
SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	3	1	2	4	1	0	1	1	0	2	0	1	0	1	0	0	17
(1)	.00	.02	.01	.01	.02	.01	.00	.01	.01	.00	.01	.00	.01	.00	.01	.00	.00	.09
(2)	.00	.01	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
.5- 1.0	23	69	139	127	91	99	92	79	79	57	39	19	9	8	7	11	0	948
(1)	.12	.35	.70	.64	.46	.50	.46	.40	.40	.29	.20	.10	.05	.04	.04	.06	.00	4.75
(2)	.05	.14	.27	.25	.18	.20	.18	.16	.16	.11	.08	.04	.02	.02	.01	.02	.00	1.87
1.1- 1.5	51	163	192	113	68	50	73	93	123	145	136	41	10	10	9	27	0	1304
(1)	.26	.82	.96	.57	.34	.25	.37	.47	.62	.73	.68	.21	.05	.05	.05	.14	.00	6.53
(2)	.10	.32	.38	.22	.13	.10	.14	.18	.24	.29	.27	.08	.02	.02	.02	.05	.00	2.58
1.6- 2.0	64	147	144	70	69	60	58	65	90	176	238	88	21	13	13	19	0	1335
(1)	.32	.74	.72	.35	.35	.30	.29	.33	.45	.88	1.19	.44	.11	.07	.07	.10	.00	6.68
(2)	.13	.29	.28	.14	.14	.12	.11	.13	.18	.35	.47	.17	.04	.03	.03	.04	.00	2.64
2.1- 3.0	200	337	275	154	128	105	170	115	105	235	473	227	114	97	87	97	0	2919
(1)	1.00	1.69	1.38	.77	.64	.53	.85	.58	.53	1.18	2.37	1.14	.57	.49	.44	.49	.00	14.62
(2)	.40	.67	.54	.30	.25	.21	.34	.23	.21	.46	.93	.45	.23	.19	.17	.19	.00	5.77
3.1- 4.0	315	351	285	71	79	92	141	159	119	144	363	273	188	188	233	249	0	3250
(1)	1.58	1.76	1.43	.36	.40	.46	.71	.80	.60	.72	1.82	1.37	.94	.94	1.17	1.25	.00	16.27
(2)	.62	.69	.56	.14	.16	.18	.28	.31	.24	.28	.72	.54	.37	.37	.46	.49	.00	6.42
4.1- 5.0	322	348	192	54	45	82	118	120	144	139	337	394	253	225	397	409	0	3579
(1)	1.61	1.74	.96	.27	.23	.41	.59	.60	.72	.70	1.69	1.97	1.27	1.13	1.99	2.05	.00	17.92
(2)	.64	.69	.38	.11	.09	.16	.23	.24	.28	.27	.67	.78	.50	.44	.78	.81	.00	7.07
5.1- 6.0	205	250	86	21	20	42	76	68	90	139	259	477	269	218	344	320	0	2884
(1)	1.03	1.25	.43	.11	.10	.21	.38	.34	.45	.70	1.30	2.39	1.35	1.09	1.72	1.60	.00	14.44
(2)	.40	.49	.17	.04	.04	.08	.15	.13	.18	.27	.51	.94	.53	.43	.68	.63	.00	5.70

Table 2.3-31—{SSES 197' (60-m) 2001-2006 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 39.44**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	84	123	46	9	17	30	34	54	65	116	210	843	354	243	331	236	0	2795
(1)	.42	.62	.23	.05	.09	.15	.17	.27	.33	.58	1.05	4.22	1.77	1.22	1.66	1.18	.00	14.00
(2)	.17	.24	.09	.02	.03	.06	.07	.11	.13	.23	.41	1.66	.70	.48	.65	.47	.00	5.52
8.1-10.0	3	7	4	1	3	6	11	17	20	34	37	313	143	51	36	34	0	720
(1)	.02	.04	.02	.01	.02	.03	.06	.09	.10	.17	.19	1.57	.72	.26	.18	.17	.00	3.61
(2)	.01	.01	.01	.00	.01	.01	.02	.03	.04	.07	.07	.62	.28	.10	.07	.07	.00	1.42
10.1-40.3	1	2	1	3	1	3	3	6	9	11	3	122	45	8	1	0	0	219
(1)	.01	.01	.01	.02	.01	.02	.02	.03	.05	.06	.02	.61	.23	.04	.01	.00	.00	1.10
(2)	.00	.00	.00	.01	.00	.01	.01	.01	.02	.02	.01	.24	.09	.02	.00	.00	.00	.43
ALL SPEEDS	1268	1800	1365	625	526	570	776	777	845	1196	2097	2797	1407	1061	1459	1402	0	19971
(1)	6.35	9.01	6.83	3.13	2.63	2.85	3.89	3.89	4.23	5.99	10.50	14.01	7.05	5.31	7.31	7.02	.00	100.00
(2)	2.50	3.56	2.70	1.23	1.04	1.13	1.53	1.53	1.67	2.36	4.14	5.52	2.78	2.10	2.88	2.77	.00	39.44

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-31—{SSES 197' (60-m) 2001-2006 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 28.82**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	4	7	4	5	6	5	3	2	1	0	0	0	0	0	0	37
(1)	.00	.00	.03	.05	.03	.03	.04	.03	.02	.01	.01	.00	.00	.00	.00	.00	.00	.25
(2)	.00	.00	.01	.01	.01	.01	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.07
.5- 1.0	68	165	294	214	184	178	169	141	140	108	68	31	19	3	8	25	0	1815
(1)	.47	1.13	2.01	1.47	1.26	1.22	1.16	.97	.96	.74	.47	.21	.13	.02	.05	.17	.00	12.44
(2)	.13	.33	.58	.42	.36	.35	.33	.28	.28	.21	.13	.06	.04	.01	.02	.05	.00	3.58
1.1- 1.5	105	321	393	124	118	73	121	166	162	164	151	55	28	11	13	32	0	2037
(1)	.72	2.20	2.69	.85	.81	.50	.83	1.14	1.11	1.12	1.03	.38	.19	.08	.09	.22	.00	13.96
(2)	.21	.63	.78	.24	.23	.14	.24	.33	.32	.32	.30	.11	.06	.02	.03	.06	.00	4.02
1.6- 2.0	157	474	230	100	62	43	70	69	120	157	176	91	34	15	16	21	0	1835
(1)	1.08	3.25	1.58	.69	.42	.29	.48	.47	.82	1.08	1.21	.62	.23	.10	.11	.14	.00	12.57
(2)	.31	.94	.45	.20	.12	.08	.14	.14	.24	.31	.35	.18	.07	.03	.03	.04	.00	3.62
2.1- 3.0	290	644	318	149	103	91	89	146	160	230	373	185	89	83	53	62	0	3065
(1)	1.99	4.41	2.18	1.02	.71	.62	.61	1.00	1.10	1.58	2.56	1.27	.61	.57	.36	.42	.00	21.00
(2)	.57	1.27	.63	.29	.20	.18	.18	.29	.32	.45	.74	.37	.18	.16	.10	.12	.00	6.05
3.1- 4.0	157	300	230	57	58	54	73	115	156	288	328	235	83	41	78	78	0	2331
(1)	1.08	2.06	1.58	.39	.40	.37	.50	.79	1.07	1.97	2.25	1.61	.57	.28	.53	.53	.00	15.97
(2)	.31	.59	.45	.11	.11	.11	.14	.23	.31	.57	.65	.46	.16	.08	.15	.15	.00	4.60
4.1- 5.0	78	162	130	30	24	25	44	63	105	232	286	265	40	24	85	69	0	1662
(1)	.53	1.11	.89	.21	.16	.17	.30	.43	.72	1.59	1.96	1.82	.27	.16	.58	.47	.00	11.39
(2)	.15	.32	.26	.06	.05	.05	.09	.12	.21	.46	.56	.52	.08	.05	.17	.14	.00	3.28
5.1- 6.0	22	97	68	12	3	10	20	31	56	127	136	282	15	8	46	24	0	957
(1)	.15	.66	.47	.08	.02	.07	.14	.21	.38	.87	.93	1.93	.10	.05	.32	.16	.00	6.56
(2)	.04	.19	.13	.02	.01	.02	.04	.06	.11	.25	.27	.56	.03	.02	.09	.05	.00	1.89

Table 2.3-31—{SSES 197' (60-m) 2001-2006 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS E — CLASS FREQUENCY (PERCENT) = 28.82

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	6	57	29	4	13	13	15	29	63	105	53	214	21	5	14	8	0	649
(1)	.04	.39	.20	.03	.09	.09	.10	.20	.43	.72	.36	1.47	.14	.03	.10	.05	.00	4.45
(2)	.01	.11	.06	.01	.03	.03	.03	.06	.12	.21	.10	.42	.04	.01	.03	.02	.00	1.28
8.1-10.0	0	3	10	2	0	11	13	13	29	33	12	18	4	0	0	0	0	148
(1)	.00	.02	.07	.01	.00	.08	.09	.09	.20	.23	.08	.12	.03	.00	.00	.00	.00	1.01
(2)	.00	.01	.02	.00	.00	.02	.03	.03	.06	.07	.02	.04	.01	.00	.00	.00	.00	.29
10.1-40.3	0	5	3	3	2	2	5	8	13	6	3	5	1	0	0	0	0	56
(1)	.00	.03	.02	.02	.01	.01	.03	.05	.09	.04	.02	.03	.01	.00	.00	.00	.00	.38
(2)	.00	.01	.01	.01	.00	.00	.01	.02	.03	.01	.01	.01	.00	.00	.00	.00	.00	.11
ALL SPEEDS	883	2228	1710	703	571	505	625	786	1007	1452	1587	1381	334	190	313	319	0	14594
(1)	6.05	15.27	11.72	4.82	3.91	3.46	4.28	5.39	6.90	9.95	10.87	9.46	2.29	1.30	2.14	2.19	.00	100.00
(2)	1.74	4.40	3.38	1.39	1.13	1.00	1.23	1.55	1.99	2.87	3.13	2.73	.66	.38	.62	.63	.00	28.82

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-31—{SSES 197' (60-m) 2001-2006 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS F — CLASS FREQUENCY (PERCENT) = 11.74

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	1	0	5	6	3	3	0	1	0	1	0	0	0	0	0	0	0	20
(1)	.02	.00	.08	.10	.05	.05	.00	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.34
(2)	.00	.00	.01	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
.5- 1.0	25	87	199	148	132	111	98	51	42	26	12	7	9	6	7	5	0	965
(1)	.42	1.46	3.35	2.49	2.22	1.87	1.65	.86	.71	.44	.20	.12	.15	.10	.12	.08	.00	16.24
(2)	.05	.17	.39	.29	.26	.22	.19	.10	.08	.05	.02	.01	.02	.01	.01	.01	.00	1.91
1.1- 1.5	73	377	355	114	84	64	77	69	97	52	34	11	6	2	5	9	0	1429
(1)	1.23	6.34	5.97	1.92	1.41	1.08	1.30	1.16	1.63	.88	.57	.19	.10	.03	.08	.15	.00	24.05
(2)	.14	.74	.70	.23	.17	.13	.15	.14	.19	.10	.07	.02	.01	.00	.01	.02	.00	2.82
1.6- 2.0	129	609	192	35	26	18	18	26	63	73	46	16	7	7	6	9	0	1280
(1)	2.17	10.25	3.23	.59	.44	.30	.30	.44	1.06	1.23	.77	.27	.12	.12	.10	.15	.00	21.54
(2)	.25	1.20	.38	.07	.05	.04	.04	.05	.12	.14	.09	.03	.01	.01	.01	.02	.00	2.53
2.1- 3.0	236	706	123	13	19	9	12	17	51	106	143	19	11	13	15	14	0	1507
(1)	3.97	11.88	2.07	.22	.32	.15	.20	.29	.86	1.78	2.41	.32	.19	.22	.25	.24	.00	25.36
(2)	.47	1.39	.24	.03	.04	.02	.02	.03	.10	.21	.28	.04	.02	.03	.03	.03	.00	2.98
3.1- 4.0	41	84	31	1	4	3	6	10	21	60	110	66	5	1	12	3	0	458
(1)	.69	1.41	.52	.02	.07	.05	.10	.17	.35	1.01	1.85	1.11	.08	.02	.20	.05	.00	7.71
(2)	.08	.17	.06	.00	.01	.01	.01	.02	.04	.12	.22	.13	.01	.00	.02	.01	.00	.90
4.1- 5.0	5	6	3	0	0	1	0	1	9	24	33	99	0	0	4	2	0	187
(1)	.08	.10	.05	.00	.00	.02	.00	.02	.15	.40	.56	1.67	.00	.00	.07	.03	.00	3.15
(2)	.01	.01	.01	.00	.00	.00	.00	.00	.02	.05	.07	.20	.00	.00	.01	.00	.00	.37
5.1- 6.0	2	0	0	0	1	0	0	0	1	6	12	50	0	0	0	1	0	73
(1)	.03	.00	.00	.00	.02	.00	.00	.00	.02	.10	.20	.84	.00	.00	.00	.02	.00	1.23
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.10	.00	.00	.00	.00	.00	.14

Table 2.3-31—{SSES 197' (60-m) 2001-2006 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 11.74**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	0	0	0	0	0	0	1	1	1	1	15	0	0	1	0	0	21
(1)	.02	.00	.00	.00	.00	.00	.00	.02	.02	.02	.02	.25	.00	.00	.02	.00	.00	.35
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.04
8.1-10.0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	513	1869	909	317	269	209	211	176	285	350	391	283	38	29	50	43	0	5942
(1)	8.63	31.45	15.30	5.33	4.53	3.52	3.55	2.96	4.80	5.89	6.58	4.76	.64	.49	.84	.72	.00	100.00
(2)	1.01	3.69	1.80	.63	.53	.41	.42	.35	.56	.69	.77	.56	.08	.06	.10	.08	.00	11.74

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-31—{SSES 197' (60-m) 2001-2006 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 7.44

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
	WIND DIRECTION FROM																	
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	1	1	1	3	1	0	0	0	0	0	0	0	0	1	0	0	8
(1)	.00	.03	.03	.03	.08	.03	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.21
(2)	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	17	37	103	103	72	61	41	35	19	10	2	2	1	1	0	3	0	507
(1)	.45	.98	2.73	2.73	1.91	1.62	1.09	.93	.50	.27	.05	.05	.03	.03	.00	.08	.00	13.46
(2)	.03	.07	.20	.20	.14	.12	.08	.07	.04	.02	.00	.00	.00	.00	.00	.01	.00	1.00
1.1- 1.5	37	240	279	106	76	62	57	50	49	33	18	4	3	5	3	4	0	1026
(1)	.98	6.37	7.40	2.81	2.02	1.65	1.51	1.33	1.30	.88	.48	.11	.08	.13	.08	.11	.00	27.23
(2)	.07	.47	.55	.21	.15	.12	.11	.10	.10	.07	.04	.01	.01	.01	.01	.01	.00	2.03
1.6- 2.0	110	453	196	46	13	10	14	19	48	39	24	7	2	0	4	2	0	987
(1)	2.92	12.02	5.20	1.22	.35	.27	.37	.50	1.27	1.04	.64	.19	.05	.00	.11	.05	.00	26.19
(2)	.22	.89	.39	.09	.03	.02	.03	.04	.09	.08	.05	.01	.00	.00	.01	.00	.00	1.95
2.1- 3.0	200	372	106	13	6	12	8	11	53	82	77	13	1	3	13	9	0	979
(1)	5.31	9.87	2.81	.35	.16	.32	.21	.29	1.41	2.18	2.04	.35	.03	.08	.35	.24	.00	25.98
(2)	.40	.73	.21	.03	.01	.02	.02	.02	.10	.16	.15	.03	.00	.01	.03	.02	.00	1.93
3.1- 4.0	34	39	7	0	0	2	3	0	7	31	42	15	1	1	5	1	0	188
(1)	.90	1.04	.19	.00	.00	.05	.08	.00	.19	.82	1.11	.40	.03	.03	.13	.03	.00	4.99
(2)	.07	.08	.01	.00	.00	.00	.01	.00	.01	.06	.08	.03	.00	.00	.01	.00	.00	.37
4.1- 5.0	3	0	0	0	1	0	0	1	3	12	5	24	0	0	1	0	0	50
(1)	.08	.00	.00	.00	.03	.00	.00	.03	.08	.32	.13	.64	.00	.00	.03	.00	.00	1.33
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.01	.02	.01	.05	.00	.00	.00	.00	.00	.10
5.1- 6.0	0	0	0	0	0	0	0	1	1	4	1	8	0	0	0	0	0	15
(1)	.00	.00	.00	.00	.00	.00	.00	.03	.03	.11	.03	.21	.00	.00	.00	.00	.00	.40
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.02	.00	.00	.00	.00	.00	.03

Table 2.3-31—{SSES 197' (60-m) 2001-2006 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 7.44**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	1	1	6	0	0	0	0	0	8
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.03	.16	.00	.00	.00	.00	.00	.21
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	401	1142	692	269	171	148	123	117	180	212	170	79	8	10	27	19	0	3768
(1)	10.64	30.31	18.37	7.14	4.54	3.93	3.26	3.11	4.78	5.63	4.51	2.10	.21	.27	.72	.50	.00	100.00
(2)	.79	2.26	1.37	.53	.34	.29	.24	.23	.36	.42	.34	.16	.02	.02	.05	.04	.00	7.44

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIO

Table 2.3-31—{SSES 197' (60-m) 2001-2006 Annual JFD - continued}

(Page 1 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS ALL — CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
.2- .4	1	4	11	16	14	10	6	7	4	3	3	0	1	0	2	0	0	82
(1)	.00	.01	.02	.03	.03	.02	.01	.01	.01	.01	.01	.00	.00	.00	.00	.00	.00	.16
(2)	.00	.01	.02	.03	.03	.02	.01	.01	.01	.01	.01	.00	.00	.00	.00	.00	.00	.16
.5- 1.0	133	362	750	615	498	467	412	313	301	210	126	60	39	19	23	45	0	4373
(1)	.26	.71	1.48	1.21	.98	.92	.81	.62	.59	.41	.25	.12	.08	.04	.05	.09	.00	8.64
(2)	.26	.71	1.48	1.21	.98	.92	.81	.62	.59	.41	.25	.12	.08	.04	.05	.09	.00	8.64
1.1- 1.5	275	1119	1262	506	382	274	349	392	466	450	371	118	49	30	32	74	0	6149
(1)	.54	2.21	2.49	1.00	.75	.54	.69	.77	.92	.89	.73	.23	.10	.06	.06	.15	.00	12.14
(2)	.54	2.21	2.49	1.00	.75	.54	.69	.77	.92	.89	.73	.23	.10	.06	.06	.15	.00	12.14
1.6- 2.0	475	1733	826	304	196	156	185	199	356	518	540	215	70	38	41	55	0	5907
(1)	.94	3.42	1.63	.60	.39	.31	.37	.39	.70	1.02	1.07	.42	.14	.08	.08	.11	.00	11.67
(2)	.94	3.42	1.63	.60	.39	.31	.37	.39	.70	1.02	1.07	.42	.14	.08	.08	.11	.00	11.67
2.1- 3.0	957	2151	926	367	274	243	317	324	419	807	1319	513	224	205	180	198	0	9424
(1)	1.89	4.25	1.83	.72	.54	.48	.63	.64	.83	1.59	2.61	1.01	.44	.40	.36	.39	.00	18.61
(2)	1.89	4.25	1.83	.72	.54	.48	.63	.64	.83	1.59	2.61	1.01	.44	.40	.36	.39	.00	18.61
3.1- 4.0	609	887	642	142	153	161	255	312	347	618	1174	718	306	253	356	356	0	7289
(1)	1.20	1.75	1.27	.28	.30	.32	.50	.62	.69	1.22	2.32	1.42	.60	.50	.70	.70	.00	14.40
(2)	1.20	1.75	1.27	.28	.30	.32	.50	.62	.69	1.22	2.32	1.42	.60	.50	.70	.70	.00	14.40
4.1- 5.0	510	628	362	98	77	116	198	218	317	503	1054	968	349	293	523	532	0	6746
(1)	1.01	1.24	.71	.19	.15	.23	.39	.43	.63	.99	2.08	1.91	.69	.58	1.03	1.05	.00	13.32
(2)	1.01	1.24	.71	.19	.15	.23	.39	.43	.63	.99	2.08	1.91	.69	.58	1.03	1.05	.00	13.32
5.1- 6.0	294	436	171	42	27	54	131	124	195	356	686	1037	350	244	416	396	0	4959
(1)	.58	.86	.34	.08	.05	.11	.26	.24	.39	.70	1.35	2.05	.69	.48	.82	.78	.00	9.79
(2)	.58	.86	.34	.08	.05	.11	.26	.24	.39	.70	1.35	2.05	.69	.48	.82	.78	.00	9.79

Table 2.3-31—{SSES 197' (60-m) 2001-2006 Annual JFD - continued}

(Page 2 of 2)

SSES JAN01-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	133	215	82	14	32	51	59	101	175	304	468	1414	426	258	374	268	0	4374
(1)	.26	.42	.16	.03	.06	.10	.12	.20	.35	.60	.92	2.79	.84	.51	.74	.53	.00	8.64
(2)	.26	.42	.16	.03	.06	.10	.12	.20	.35	.60	.92	2.79	.84	.51	.74	.53	.00	8.64
8.1-10.0	12	14	14	3	3	18	26	31	51	89	71	405	156	51	40	39	0	1023
(1)	.02	.03	.03	.01	.01	.04	.05	.06	.10	.18	.14	.80	.31	.10	.08	.08	.00	2.02
(2)	.02	.03	.03	.01	.01	.04	.05	.06	.10	.18	.14	.80	.31	.10	.08	.08	.00	2.02
10.1-40.3	1	7	4	6	3	5	9	14	23	17	13	143	46	8	1	1	0	301
(1)	.00	.01	.01	.01	.01	.01	.02	.03	.05	.03	.03	.28	.09	.02	.00	.00	.00	.59
(2)	.00	.01	.01	.01	.01	.01	.02	.03	.05	.03	.03	.28	.09	.02	.00	.00	.00	.59
ALL SPEEDS	3400	7556	5052	2114	1660	1555	1947	2035	2654	3875	5825	5591	2016	1399	1988	1964	0	50631
(1)	6.72	14.92	9.98	4.18	3.28	3.07	3.85	4.02	5.24	7.65	11.50	11.04	3.98	2.76	3.93	3.88	.00	100.00
(2)	6.72	14.92	9.98	4.18	3.28	3.07	3.85	4.02	5.24	7.65	11.50	11.04	3.98	2.76	3.93	3.88	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-32 {SSES 33' (10-m) 2001-2006 Winter JFD}

(Page 1 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 2.08**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.37	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.37
(2)	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
1.1- 1.5	0	1	0	0	1	2	2	3	3	4	4	1	0	1	0	0	0	22
(1)	.00	.37	.00	.00	.37	.74	.74	1.11	1.11	1.48	1.48	.37	.00	.37	.00	.00	.00	8.15
(2)	.00	.01	.00	.00	.01	.02	.02	.02	.02	.03	.03	.01	.00	.01	.00	.00	.00	.17
1.6- 2.0	0	0	1	0	3	1	0	2	8	11	10	0	0	0	0	1	0	37
(1)	.00	.00	.37	.00	1.11	.37	.00	.74	2.96	4.07	3.70	.00	.00	.00	.00	.37	.00	13.70
(2)	.00	.00	.01	.00	.02	.01	.00	.02	.06	.08	.08	.00	.00	.00	.00	.01	.00	.28
2.1- 3.0	0	1	6	3	0	1	4	1	7	22	29	3	2	3	0	0	0	82
(1)	.00	.37	2.22	1.11	.00	.37	1.48	.37	2.59	8.15	10.74	1.11	.74	1.11	.00	.00	.00	30.37
(2)	.00	.01	.05	.02	.00	.01	.03	.01	.05	.17	.22	.02	.02	.02	.00	.00	.00	.63
3.1- 4.0	0	1	1	0	0	0	4	1	3	12	28	3	2	0	0	0	0	55
(1)	.00	.37	.37	.00	.00	.00	1.48	.37	1.11	4.44	10.37	1.11	.74	.00	.00	.00	.00	20.37
(2)	.00	.01	.01	.00	.00	.00	.03	.01	.02	.09	.22	.02	.02	.00	.00	.00	.00	.42
4.1- 5.0	0	0	1	0	0	0	0	0	4	2	30	6	2	0	0	0	0	45
(1)	.00	.00	.37	.00	.00	.00	.00	.00	1.48	.74	11.11	2.22	.74	.00	.00	.00	.00	16.67
(2)	.00	.00	.01	.00	.00	.00	.00	.00	.03	.02	.23	.05	.02	.00	.00	.00	.00	.35
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	13	7	0	0	1	0	0	21
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.81	2.59	.00	.00	.37	.00	.00	7.78
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.05	.00	.00	.01	.00	.00	.16

Table 2.3-32 {SSES 33' (10-m) 2001-2006 Winter JFD}

(Page 2 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 2.08**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	5	2	0	0	0	0	0	7
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.85	.74	.00	.00	.00	.00	.00	2.59
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.02	.00	.00	.00	.00	.00	.05
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	3	9	3	5	4	10	7	25	51	119	22	6	4	1	1	0	270
(1)	.00	1.11	3.33	1.11	1.85	1.48	3.70	2.59	9.26	18.89	44.07	8.15	2.22	1.48	.37	.37	.00	100.00
(2)	.00	.02	.07	.02	.04	.03	.08	.05	.19	.39	.92	.17	.05	.03	.01	.01	.00	2.08

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-32—{SSES 33' (10-m) 2001-2006 Winter JFD - continued}

(Page 1 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS B — CLASS FREQUENCY (PERCENT) = 1.82

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	1	0	0	0	1	1	0	0	2	1	0	1	0	0	1	0	0	8
(1)	.42	.00	.00	.00	.42	.42	.00	.00	.85	.42	.00	.42	.00	.00	.42	.00	.00	3.39
(2)	.01	.00	.00	.00	.01	.01	.00	.00	.02	.01	.00	.01	.00	.00	.01	.00	.00	.06
1.1- 1.5	0	0	0	0	2	0	0	3	3	4	0	1	0	0	0	0	0	13
(1)	.00	.00	.00	.00	.85	.00	.00	1.27	1.27	1.69	.00	.42	.00	.00	.00	.00	.00	5.51
(2)	.00	.00	.00	.00	.02	.00	.00	.02	.02	.03	.00	.01	.00	.00	.00	.00	.00	.10
1.6- 2.0	0	1	3	1	1	1	1	2	2	7	5	0	0	1	0	1	0	26
(1)	.00	.42	1.27	.42	.42	.42	.42	.85	.85	2.97	2.12	.00	.00	.42	.00	.42	.00	11.02
(2)	.00	.01	.02	.01	.01	.01	.01	.02	.02	.05	.04	.00	.00	.01	.00	.01	.00	.20
2.1- 3.0	0	2	8	0	2	0	0	2	2	9	11	5	2	0	1	1	0	45
(1)	.00	.85	3.39	.00	.85	.00	.00	.85	.85	3.81	4.66	2.12	.85	.00	.42	.42	.00	19.07
(2)	.00	.02	.06	.00	.02	.00	.00	.02	.02	.07	.08	.04	.02	.00	.01	.01	.00	.35
3.1- 4.0	4	8	7	0	0	0	0	0	4	6	19	6	1	3	0	2	0	60
(1)	1.69	3.39	2.97	.00	.00	.00	.00	.00	1.69	2.54	8.05	2.54	.42	1.27	.00	.85	.00	25.42
(2)	.03	.06	.05	.00	.00	.00	.00	.00	.03	.05	.15	.05	.01	.02	.00	.02	.00	.46
4.1- 5.0	2	4	1	0	0	0	0	0	0	3	29	8	2	2	0	1	0	52
(1)	.85	1.69	.42	.00	.00	.00	.00	.00	.00	1.27	12.29	3.39	.85	.85	.00	.42	.00	22.03
(2)	.02	.03	.01	.00	.00	.00	.00	.00	.00	.02	.22	.06	.02	.02	.00	.01	.00	.40
5.1- 6.0	0	1	0	0	0	0	0	0	0	1	17	8	1	0	1	0	0	29
(1)	.00	.42	.00	.00	.00	.00	.00	.00	.00	.42	7.20	3.39	.42	.00	.42	.00	.00	12.29
(2)	.00	.01	.00	.00	.00	.00	.00	.00	.00	.01	.13	.06	.01	.00	.01	.00	.00	.22

Table 2.3-32—{SSES 33' (10-m) 2001-2006 Winter JFD - continued}

(Page 2 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 1.82**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.42	.85	.00	.00	.00	.00	.00	1.27
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	7	16	19	1	6	2	1	7	13	31	82	31	6	6	3	5	0	236
(1)	2.97	6.78	8.05	.42	2.54	.85	.42	2.97	5.51	13.14	34.75	13.14	2.54	2.54	1.27	2.12	.00	100.00
(2)	.05	.12	.15	.01	.05	.02	.01	.05	.10	.24	.63	.24	.05	.05	.02	.04	.00	1.82

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-32—{SSES 33' (10-m) 2001-2006 Winter JFD - continued}

(Page 1 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 2.85**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	4	4	3	3	3	0	1	0	0	0	0	0	0	18
(1)	.00	.00	.00	.00	1.08	1.08	.81	.81	.81	.00	.27	.00	.00	.00	.00	.00	.00	4.86
(2)	.00	.00	.00	.00	.03	.03	.02	.02	.02	.00	.01	.00	.00	.00	.00	.00	.00	.14
1.1- 1.5	0	1	1	0	5	7	1	1	7	5	2	1	1	0	0	0	0	32
(1)	.00	.27	.27	.00	1.35	1.89	.27	.27	1.89	1.35	.54	.27	.27	.00	.00	.00	.00	8.65
(2)	.00	.01	.01	.00	.04	.05	.01	.01	.05	.04	.02	.01	.01	.00	.00	.00	.00	.25
1.6- 2.0	0	1	6	2	2	1	1	4	4	8	7	1	1	1	0	1	0	40
(1)	.00	.27	1.62	.54	.54	.27	.27	1.08	1.08	2.16	1.89	.27	.27	.27	.00	.27	.00	10.81
(2)	.00	.01	.05	.02	.02	.01	.01	.03	.03	.06	.05	.01	.01	.01	.00	.01	.00	.31
2.1- 3.0	3	10	7	4	0	0	2	1	8	8	20	7	1	1	2	0	0	74
(1)	.81	2.70	1.89	1.08	.00	.00	.54	.27	2.16	2.16	5.41	1.89	.27	.27	.54	.00	.00	20.00
(2)	.02	.08	.05	.03	.00	.00	.02	.01	.06	.06	.15	.05	.01	.01	.02	.00	.00	.57
3.1- 4.0	9	4	2	0	0	0	2	0	3	10	18	9	1	3	1	3	0	65
(1)	2.43	1.08	.54	.00	.00	.00	.54	.00	.81	2.70	4.86	2.43	.27	.81	.27	.81	.00	17.57
(2)	.07	.03	.02	.00	.00	.00	.02	.00	.02	.08	.14	.07	.01	.02	.01	.02	.00	.50
4.1- 5.0	8	1	3	0	0	0	0	0	2	4	38	14	3	5	4	8	0	90
(1)	2.16	.27	.81	.00	.00	.00	.00	.00	.54	1.08	10.27	3.78	.81	1.35	1.08	2.16	.00	24.32
(2)	.06	.01	.02	.00	.00	.00	.00	.00	.02	.03	.29	.11	.02	.04	.03	.06	.00	.69
5.1- 6.0	0	0	0	0	0	0	0	0	1	0	15	11	7	0	1	5	0	40
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.27	.00	4.05	2.97	1.89	.00	.27	1.35	.00	10.81
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.12	.08	.05	.00	.01	.04	.00	.31

Table 2.3-32—{SSES 33' (10-m) 2001-2006 Winter JFD - continued}

(Page 2 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 2.85**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	4	3	4	0	0	0	0	11
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.08	.81	1.08	.00	.00	.00	.00	2.97
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.02	.03	.00	.00	.00	.00	.08
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	20	17	19	6	11	12	9	9	28	35	105	46	18	10	8	17	0	370
(1)	5.41	4.59	5.14	1.62	2.97	3.24	2.43	2.43	7.57	9.46	28.38	12.43	4.86	2.70	2.16	4.59	.00	100.00
(2)	.15	.13	.15	.05	.08	.09	.07	.07	.22	.27	.81	.35	.14	.08	.06	.13	.00	2.85

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-32—{SSES 33' (10-m) 2001-2006 Winter JFD - continued}

(Page 1 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 47.66**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
(2)	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
.2- .4	0	0	3	4	8	1	0	2	2	1	1	0	0	1	1	0	0	24
(1)	.00	.00	.05	.06	.13	.02	.00	.03	.03	.02	.02	.00	.00	.02	.02	.00	.00	.39
(2)	.00	.00	.02	.03	.06	.01	.00	.02	.02	.01	.01	.00	.00	.01	.01	.00	.00	.18
.5- 1.0	10	32	34	49	67	60	45	30	33	21	9	11	2	1	10	10	0	424
(1)	.16	.52	.55	.79	1.08	.97	.73	.48	.53	.34	.15	.18	.03	.02	.16	.16	.00	6.85
(2)	.08	.25	.26	.38	.52	.46	.35	.23	.25	.16	.07	.08	.02	.01	.08	.08	.00	3.27
1.1- 1.5	26	64	61	50	35	49	73	51	63	58	44	20	15	10	11	7	0	637
(1)	.42	1.03	.99	.81	.57	.79	1.18	.82	1.02	.94	.71	.32	.24	.16	.18	.11	.00	10.29
(2)	.20	.49	.47	.39	.27	.38	.56	.39	.49	.45	.34	.15	.12	.08	.08	.05	.00	4.91
1.6- 2.0	35	53	68	37	15	23	39	41	47	74	44	26	28	20	19	22	0	591
(1)	.57	.86	1.10	.60	.24	.37	.63	.66	.76	1.20	.71	.42	.45	.32	.31	.36	.00	9.55
(2)	.27	.41	.52	.28	.12	.18	.30	.32	.36	.57	.34	.20	.22	.15	.15	.17	.00	4.55
2.1- 3.0	144	111	111	21	14	18	49	49	87	148	142	73	70	54	78	104	0	1273
(1)	2.33	1.79	1.79	.34	.23	.29	.79	.79	1.41	2.39	2.29	1.18	1.13	.87	1.26	1.68	.00	20.57
(2)	1.11	.85	.85	.16	.11	.14	.38	.38	.67	1.14	1.09	.56	.54	.42	.60	.80	.00	9.80
3.1- 4.0	139	60	43	14	6	6	15	17	26	66	264	121	96	73	147	196	0	1289
(1)	2.25	.97	.69	.23	.10	.10	.24	.27	.42	1.07	4.27	1.96	1.55	1.18	2.38	3.17	.00	20.83
(2)	1.07	.46	.33	.11	.05	.05	.12	.13	.20	.51	2.03	.93	.74	.56	1.13	1.51	.00	9.93
4.1- 5.0	59	17	4	1	2	1	2	3	8	13	201	166	105	82	152	208	0	1024
(1)	.95	.27	.06	.02	.03	.02	.03	.05	.13	.21	3.25	2.68	1.70	1.33	2.46	3.36	.00	16.55
(2)	.45	.13	.03	.01	.02	.01	.02	.02	.06	.10	1.55	1.28	.81	.63	1.17	1.60	.00	7.89
5.1- 6.0	15	0	0	0	0	1	2	0	2	4	101	124	52	44	142	109	0	596
(1)	.24	.00	.00	.00	.00	.02	.03	.00	.03	.06	1.63	2.00	.84	.71	2.29	1.76	.00	9.63
(2)	.12	.00	.00	.00	.00	.01	.02	.00	.02	.03	.78	.96	.40	.34	1.09	.84	.00	4.59

Table 2.3-32—{SSES 33' (10-m) 2001-2006 Winter JFD - continued}

(Page 2 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 47.66**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	2	0	0	0	0	2	1	0	1	0	50	94	33	18	51	51	0	303
(1)	.03	.00	.00	.00	.00	.03	.02	.00	.02	.00	.81	1.52	.53	.29	.82	.82	.00	4.90
(2)	.02	.00	.00	.00	.00	.02	.01	.00	.01	.00	.39	.72	.25	.14	.39	.39	.00	2.33
8.1-10.0	0	0	0	0	0	0	1	0	2	0	2	13	4	1	0	1	0	24
(1)	.00	.00	.00	.00	.00	.00	.02	.00	.03	.00	.03	.21	.06	.02	.00	.02	.00	.39
(2)	.00	.00	.00	.00	.00	.00	.01	.00	.02	.00	.02	.10	.03	.01	.00	.01	.00	.18
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.03
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00	.00	.00	.00	.02
ALL SPEEDS	430	338	324	176	147	161	227	193	271	385	858	649	406	304	611	708	0	6188
(1)	6.95	5.46	5.24	2.84	2.38	2.60	3.67	3.12	4.38	6.22	13.87	10.49	6.56	4.91	9.87	11.44	.00	100.00
(2)	3.31	2.60	2.50	1.36	1.13	1.24	1.75	1.49	2.09	2.97	6.61	5.00	3.13	2.34	4.71	5.45	.00	47.66

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-32—{SSES 33' (10-m) 2001-2006 Winter JFD - continued}

(Page 1 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 28.55**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	3	2	2	5	4	3	1	0	1	1	0	0	0	0	0	0	22
(1)	.00	.08	.05	.05	.13	.11	.08	.03	.00	.03	.03	.00	.00	.00	.00	.00	.00	.59
(2)	.00	.02	.02	.02	.04	.03	.02	.01	.00	.01	.01	.00	.00	.00	.00	.00	.00	.17
.5- 1.0	15	48	135	191	181	141	161	103	99	47	19	8	5	5	4	5	0	1167
(1)	.40	1.29	3.64	5.15	4.88	3.80	4.34	2.78	2.67	1.27	.51	.22	.13	.13	.11	.13	.00	31.48
(2)	.12	.37	1.04	1.47	1.39	1.09	1.24	.79	.76	.36	.15	.06	.04	.04	.03	.04	.00	8.99
1.1- 1.5	28	80	115	66	29	35	54	72	121	105	53	21	18	11	5	6	0	819
(1)	.76	2.16	3.10	1.78	.78	.94	1.46	1.94	3.26	2.83	1.43	.57	.49	.30	.13	.16	.00	22.09
(2)	.22	.62	.89	.51	.22	.27	.42	.55	.93	.81	.41	.16	.14	.08	.04	.05	.00	6.31
1.6- 2.0	50	75	51	14	9	9	12	32	60	126	57	33	10	5	13	10	0	566
(1)	1.35	2.02	1.38	.38	.24	.24	.32	.86	1.62	3.40	1.54	.89	.27	.13	.35	.27	.00	15.27
(2)	.39	.58	.39	.11	.07	.07	.09	.25	.46	.97	.44	.25	.08	.04	.10	.08	.00	4.36
2.1- 3.0	73	75	44	7	8	11	12	23	55	144	142	31	18	11	26	38	0	718
(1)	1.97	2.02	1.19	.19	.22	.30	.32	.62	1.48	3.88	3.83	.84	.49	.30	.70	1.03	.00	19.37
(2)	.56	.58	.34	.05	.06	.08	.09	.18	.42	1.11	1.09	.24	.14	.08	.20	.29	.00	5.53
3.1- 4.0	22	24	26	2	5	4	3	6	13	20	87	18	6	8	7	22	0	273
(1)	.59	.65	.70	.05	.13	.11	.08	.16	.35	.54	2.35	.49	.16	.22	.19	.59	.00	7.36
(2)	.17	.18	.20	.02	.04	.03	.02	.05	.10	.15	.67	.14	.05	.06	.05	.17	.00	2.10
4.1- 5.0	8	2	2	0	1	2	2	4	7	7	22	10	2	0	6	8	0	83
(1)	.22	.05	.05	.00	.03	.05	.05	.11	.19	.19	.59	.27	.05	.00	.16	.22	.00	2.24
(2)	.06	.02	.02	.00	.01	.02	.02	.03	.05	.05	.17	.08	.02	.00	.05	.06	.00	.64
5.1- 6.0	3	0	0	0	1	3	4	5	5	4	3	5	2	0	2	1	0	38
(1)	.08	.00	.00	.00	.03	.08	.11	.13	.13	.11	.08	.13	.05	.00	.05	.03	.00	1.03
(2)	.02	.00	.00	.00	.01	.02	.03	.04	.04	.03	.02	.04	.02	.00	.02	.01	.00	.29

Table 2.3-32—{SSES 33' (10-m) 2001-2006 Winter JFD - continued}

(Page 2 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 28.55**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	2	0	3	2	3	1	1	5	0	0	1	1	0	19
(1)	.00	.00	.00	.00	.05	.00	.08	.05	.08	.03	.03	.13	.00	.00	.03	.03	.00	.51
(2)	.00	.00	.00	.00	.02	.00	.02	.02	.02	.01	.01	.04	.00	.00	.01	.01	.00	.15
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.03
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.01
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.03
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.01
ALL SPEEDS	199	307	375	282	241	209	254	248	363	455	385	133	61	40	64	91	0	3707
(1)	5.37	8.28	10.12	7.61	6.50	5.64	6.85	6.69	9.79	12.27	10.39	3.59	1.65	1.08	1.73	2.45	.00	100.00
(2)	1.53	2.36	2.89	2.17	1.86	1.61	1.96	1.91	2.80	3.50	2.97	1.02	.47	.31	.49	.70	.00	28.55

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-32—{SSES 33' (10-m) 2001-2006 Winter JFD - continued}
(Page 1 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS F — CLASS FREQUENCY (PERCENT) = 9.91

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	1	1	2	7	0	2	0	2	0	0	0	1	0	0	0	0	16
(1)	.00	.08	.08	.16	.54	.00	.16	.00	.16	.00	.00	.00	.08	.00	.00	.00	.00	1.24
(2)	.00	.01	.01	.02	.05	.00	.02	.00	.02	.00	.00	.00	.01	.00	.00	.00	.00	.12
.5- 1.0	7	19	112	281	170	96	48	55	56	10	2	1	1	1	0	1	0	860
(1)	.54	1.48	8.70	21.83	13.21	7.46	3.73	4.27	4.35	.78	.16	.08	.08	.08	.00	.08	.00	66.82
(2)	.05	.15	.86	2.16	1.31	.74	.37	.42	.43	.08	.02	.01	.01	.01	.00	.01	.00	6.62
1.1- 1.5	5	23	59	128	19	7	11	16	40	16	4	2	1	1	0	3	0	335
(1)	.39	1.79	4.58	9.95	1.48	.54	.85	1.24	3.11	1.24	.31	.16	.08	.08	.00	.23	.00	26.03
(2)	.04	.18	.45	.99	.15	.05	.08	.12	.31	.12	.03	.02	.01	.01	.00	.02	.00	2.58
1.6- 2.0	2	7	8	3	0	0	1	5	6	16	5	1	0	0	0	1	0	55
(1)	.16	.54	.62	.23	.00	.00	.08	.39	.47	1.24	.39	.08	.00	.00	.00	.08	.00	4.27
(2)	.02	.05	.06	.02	.00	.00	.01	.04	.05	.12	.04	.01	.00	.00	.00	.01	.00	.42
2.1- 3.0	1	0	0	0	0	0	0	1	1	4	6	1	1	0	1	3	0	19
(1)	.08	.00	.00	.00	.00	.00	.00	.08	.08	.31	.47	.08	.08	.00	.08	.23	.00	1.48
(2)	.01	.00	.00	.00	.00	.00	.00	.01	.01	.03	.05	.01	.01	.00	.01	.02	.00	.15
3.1- 4.0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2
(1)	.08	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.16
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.02
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-32—{SSES 33' (10-m) 2001-2006 Winter JFD - continued}

(Page 2 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 9.91**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	16	50	180	414	196	103	62	77	105	47	17	5	4	2	1	8	0	1287
(1)	1.24	3.89	13.99	32.17	15.23	8.00	4.82	5.98	8.16	3.65	1.32	.39	.31	.16	.08	.62	.00	100.00
(2)	.12	.39	1.39	3.19	1.51	.79	.48	.59	.81	.36	.13	.04	.03	.02	.01	.06	.00	9.91

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-32—{SSES 33' (10-m) 2001-2006 Winter JFD - continued}

(Page 1 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 7.13**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	4
(1)	.00	.00	.00	.22	.22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.43
(2)	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
.5- 1.0	1	8	95	282	103	34	22	23	8	3	1	1	0	0	0	0	0	581
(1)	.11	.86	10.26	30.45	11.12	3.67	2.38	2.48	.86	.32	.11	.11	.00	.00	.00	.00	.00	62.74
(2)	.01	.06	.73	2.17	.79	.26	.17	.18	.06	.02	.01	.01	.00	.00	.00	.00	.00	4.47
1.1- 1.5	1	5	56	203	18	7	8	6	11	2	1	0	0	0	0	0	0	318
(1)	.11	.54	6.05	21.92	1.94	.76	.86	.65	1.19	.22	.11	.00	.00	.00	.00	.00	.00	34.34
(2)	.01	.04	.43	1.56	.14	.05	.06	.05	.08	.02	.01	.00	.00	.00	.00	.00	.00	2.45
1.6- 2.0	0	0	6	8	0	1	0	1	0	4	0	0	0	0	0	0	0	20
(1)	.00	.00	.65	.86	.00	.11	.00	.11	.00	.43	.00	.00	.00	.00	.00	.00	.00	2.16
(2)	.00	.00	.05	.06	.00	.01	.00	.01	.00	.03	.00	.00	.00	.00	.00	.00	.00	.15
2.1- 3.0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	3
(1)	.00	.00	.11	.00	.00	.00	.11	.00	.00	.11	.00	.00	.00	.00	.00	.00	.00	.32
(2)	.00	.00	.01	.00	.00	.00	.01	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.02
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-32—{SSES 33' (10-m) 2001-2006 Winter JFD - continued}

(Page 2 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 7.13**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	2	13	158	495	123	42	31	30	19	10	2	1	0	0	0	0	0	926
(1)	.22	1.40	17.06	53.46	13.28	4.54	3.35	3.24	2.05	1.08	.22	.11	.00	.00	.00	.00	.00	100.00
(2)	.02	.10	1.22	3.81	.95	.32	.24	.23	.15	.08	.02	.01	.00	.00	.00	.00	.00	7.13

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-32—{SSES 33' (10-m) 2001-2006 Winter JFD - continued}

(Page 1 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
(2)	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
.2- .4	0	4	6	10	22	5	5	3	4	2	2	0	1	1	1	0	0	66
(1)	.00	.03	.05	.08	.17	.04	.04	.02	.03	.02	.02	.00	.01	.01	.01	.00	.00	.51
(2)	.00	.03	.05	.08	.17	.04	.04	.02	.03	.02	.02	.00	.01	.01	.01	.00	.00	.51
.5- 1.0	34	107	376	803	527	336	279	214	201	82	32	22	8	7	15	16	0	3059
(1)	.26	.82	2.90	6.18	4.06	2.59	2.15	1.65	1.55	.63	.25	.17	.06	.05	.12	.12	.00	23.56
(2)	.26	.82	2.90	6.18	4.06	2.59	2.15	1.65	1.55	.63	.25	.17	.06	.05	.12	.12	.00	23.56
1.1- 1.5	60	174	292	447	109	107	149	152	248	194	108	46	35	23	16	16	0	2176
(1)	.46	1.34	2.25	3.44	.84	.82	1.15	1.17	1.91	1.49	.83	.35	.27	.18	.12	.12	.00	16.76
(2)	.46	1.34	2.25	3.44	.84	.82	1.15	1.17	1.91	1.49	.83	.35	.27	.18	.12	.12	.00	16.76
1.6- 2.0	87	137	143	65	30	36	54	87	127	246	128	61	39	27	32	36	0	1335
(1)	.67	1.06	1.10	.50	.23	.28	.42	.67	.98	1.89	.99	.47	.30	.21	.25	.28	.00	10.28
(2)	.67	1.06	1.10	.50	.23	.28	.42	.67	.98	1.89	.99	.47	.30	.21	.25	.28	.00	10.28
2.1- 3.0	221	199	177	35	24	30	68	77	160	336	350	120	94	69	108	146	0	2214
(1)	1.70	1.53	1.36	.27	.18	.23	.52	.59	1.23	2.59	2.70	.92	.72	.53	.83	1.12	.00	17.05
(2)	1.70	1.53	1.36	.27	.18	.23	.52	.59	1.23	2.59	2.70	.92	.72	.53	.83	1.12	.00	17.05
3.1- 4.0	175	97	79	16	11	10	24	24	49	115	416	157	106	87	155	223	0	1744
(1)	1.35	.75	.61	.12	.08	.08	.18	.18	.38	.89	3.20	1.21	.82	.67	1.19	1.72	.00	13.43
(2)	1.35	.75	.61	.12	.08	.08	.18	.18	.38	.89	3.20	1.21	.82	.67	1.19	1.72	.00	13.43
4.1- 5.0	77	24	11	1	3	3	4	7	21	29	320	204	114	89	162	225	0	1294
(1)	.59	.18	.08	.01	.02	.02	.03	.05	.16	.22	2.46	1.57	.88	.69	1.25	1.73	.00	9.97
(2)	.59	.18	.08	.01	.02	.02	.03	.05	.16	.22	2.46	1.57	.88	.69	1.25	1.73	.00	9.97
5.1- 6.0	18	1	0	0	1	4	6	5	8	9	149	155	62	44	147	115	0	724
(1)	.14	.01	.00	.00	.01	.03	.05	.04	.06	.07	1.15	1.19	.48	.34	1.13	.89	.00	5.58
(2)	.14	.01	.00	.00	.01	.03	.05	.04	.06	.07	1.15	1.19	.48	.34	1.13	.89	.00	5.58

Table 2.3-32—{SSES 33' (10-m) 2001-2006 Winter JFD - continued}

(Page 2 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	2	0	0	0	2	2	4	2	4	1	61	106	37	18	52	52	0	343
(1)	.02	.00	.00	.00	.02	.02	.03	.02	.03	.01	.47	.82	.28	.14	.40	.40	.00	2.64
(2)	.02	.00	.00	.00	.02	.02	.03	.02	.03	.01	.47	.82	.28	.14	.40	.40	.00	2.64
8.1-10.0	0	0	0	0	0	0	1	0	2	0	2	14	4	1	0	1	0	25
(1)	.00	.00	.00	.00	.00	.00	.01	.00	.02	.00	.02	.11	.03	.01	.00	.01	.00	.19
(2)	.00	.00	.00	.00	.00	.00	.01	.00	.02	.00	.02	.11	.03	.01	.00	.01	.00	.19
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.01	.00	.00	.00	.00	.02
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.01	.00	.00	.00	.00	.02
ALL SPEEDS	674	744	1084	1377	729	533	594	571	824	1014	1568	887	501	366	688	830	0	12984
(1)	5.19	5.73	8.35	10.61	5.61	4.11	4.57	4.40	6.35	7.81	12.08	6.83	3.86	2.82	5.30	6.39	.00	100.00
(2)	5.19	5.73	8.35	10.61	5.61	4.11	4.57	4.40	6.35	7.81	12.08	6.83	3.86	2.82	5.30	6.39	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-33 {SSES 33' (10-m) 2001-2006 Spring JFD}

(Page 1 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 7.09**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.11	.00	.00	.11	.11	.00	.00	.00	.00	.00	.33
(2)	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.01	.01	.00	.00	.00	.00	.00	.02
1.1- 1.5	1	1	4	6	7	2	3	1	7	7	7	2	1	0	1	0	0	50
(1)	.11	.11	.43	.65	.76	.22	.33	.11	.76	.76	.76	.22	.11	.00	.11	.00	.00	5.42
(2)	.01	.01	.03	.05	.05	.02	.02	.01	.05	.05	.05	.02	.01	.00	.01	.00	.00	.38
1.6- 2.0	1	2	9	7	7	11	6	10	14	11	22	3	3	1	2	0	0	109
(1)	.11	.22	.98	.76	.76	1.19	.65	1.08	1.52	1.19	2.38	.33	.33	.11	.22	.00	.00	11.81
(2)	.01	.02	.07	.05	.05	.08	.05	.08	.11	.08	.17	.02	.02	.01	.02	.00	.00	.84
2.1- 3.0	5	12	12	3	7	6	12	15	26	48	66	26	3	1	1	2	0	245
(1)	.54	1.30	1.30	.33	.76	.65	1.30	1.63	2.82	5.20	7.15	2.82	.33	.11	.11	.22	.00	26.54
(2)	.04	.09	.09	.02	.05	.05	.09	.12	.20	.37	.51	.20	.02	.01	.01	.02	.00	1.88
3.1- 4.0	16	32	14	1	1	2	10	7	35	38	64	21	5	4	4	3	0	257
(1)	1.73	3.47	1.52	.11	.11	.22	1.08	.76	3.79	4.12	6.93	2.28	.54	.43	.43	.33	.00	27.84
(2)	.12	.25	.11	.01	.01	.02	.08	.05	.27	.29	.49	.16	.04	.03	.03	.02	.00	1.97
4.1- 5.0	15	13	3	0	0	0	13	7	17	24	50	22	6	5	3	5	0	183
(1)	1.63	1.41	.33	.00	.00	.00	1.41	.76	1.84	2.60	5.42	2.38	.65	.54	.33	.54	.00	19.83
(2)	.12	.10	.02	.00	.00	.00	.10	.05	.13	.18	.38	.17	.05	.04	.02	.04	.00	1.41
5.1- 6.0	7	1	0	0	0	1	2	0	0	3	23	15	2	0	1	4	0	59
(1)	.76	.11	.00	.00	.00	.11	.22	.00	.00	.33	2.49	1.63	.22	.00	.11	.43	.00	6.39
(2)	.05	.01	.00	.00	.00	.01	.02	.00	.00	.02	.18	.12	.02	.00	.01	.03	.00	.45

Table 2.3-33 {SSES 33' (10-m) 2001-2006 Spring JFD}

(Page 2 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 7.09**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	3	0	0	0	0	0	0	1	1	0	7	2	0	0	1	2	0	17
(1)	.33	.00	.00	.00	.00	.00	.00	.11	.11	.00	.76	.22	.00	.00	.11	.22	.00	1.84
(2)	.02	.00	.00	.00	.00	.00	.00	.01	.01	.00	.05	.02	.00	.00	.01	.02	.00	.13
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	48	61	42	17	22	22	46	42	100	131	240	92	20	11	13	16	0	923
(1)	5.20	6.61	4.55	1.84	2.38	2.38	4.98	4.55	10.83	14.19	26.00	9.97	2.17	1.19	1.41	1.73	.00	100.00
(2)	.37	.47	.32	.13	.17	.17	.35	.32	.77	1.01	1.84	.71	.15	.08	.10	.12	.00	7.09

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-33—{SSES 33' (10-m) 2001-2006 Spring JFD - continued}

(Page 1 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.59**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	2	1	2	1	1	0	1	0	0	0	0	0	0	8
(1)	.00	.00	.00	.00	.43	.21	.43	.21	.21	.00	.21	.00	.00	.00	.00	.00	.00	1.71
(2)	.00	.00	.00	.00	.02	.01	.02	.01	.01	.00	.01	.00	.00	.00	.00	.00	.00	.06
1.1- 1.5	0	2	5	3	4	4	1	3	4	5	1	0	0	1	0	0	0	33
(1)	.00	.43	1.07	.64	.86	.86	.21	.64	.86	1.07	.21	.00	.00	.21	.00	.00	.00	7.07
(2)	.00	.02	.04	.02	.03	.03	.01	.02	.03	.04	.01	.00	.00	.01	.00	.00	.00	.25
1.6- 2.0	2	2	2	3	7	4	2	3	2	4	7	0	0	0	0	0	0	38
(1)	.43	.43	.43	.64	1.50	.86	.43	.64	.43	.86	1.50	.00	.00	.00	.00	.00	.00	8.14
(2)	.02	.02	.02	.02	.05	.03	.02	.02	.02	.03	.05	.00	.00	.00	.00	.00	.00	.29
2.1- 3.0	3	10	9	2	3	3	8	6	7	19	16	8	3	0	1	1	0	99
(1)	.64	2.14	1.93	.43	.64	.64	1.71	1.28	1.50	4.07	3.43	1.71	.64	.00	.21	.21	.00	21.20
(2)	.02	.08	.07	.02	.02	.02	.06	.05	.05	.15	.12	.06	.02	.00	.01	.01	.00	.76
3.1- 4.0	9	11	8	1	5	0	3	6	8	7	29	7	1	6	3	6	0	110
(1)	1.93	2.36	1.71	.21	1.07	.00	.64	1.28	1.71	1.50	6.21	1.50	.21	1.28	.64	1.28	.00	23.55
(2)	.07	.08	.06	.01	.04	.00	.02	.05	.06	.05	.22	.05	.01	.05	.02	.05	.00	.84
4.1- 5.0	12	6	1	0	2	1	3	1	0	4	28	18	5	7	7	14	0	109
(1)	2.57	1.28	.21	.00	.43	.21	.64	.21	.00	.86	6.00	3.85	1.07	1.50	1.50	3.00	.00	23.34
(2)	.09	.05	.01	.00	.02	.01	.02	.01	.00	.03	.22	.14	.04	.05	.05	.11	.00	.84
5.1- 6.0	3	3	0	0	0	0	1	0	1	1	9	15	1	1	7	7	0	49
(1)	.64	.64	.00	.00	.00	.00	.21	.00	.21	.21	1.93	3.21	.21	.21	1.50	1.50	.00	10.49
(2)	.02	.02	.00	.00	.00	.00	.01	.00	.01	.01	.07	.12	.01	.01	.05	.05	.00	.38

Table 2.3-33—{SSES 33' (10-m) 2001-2006 Spring JFD - continued}

(Page 2 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.59**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	3	0	0	0	0	0	0	0	0	0	6	6	0	0	3	2	0	20
(1)	.64	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.28	1.28	.00	.00	.64	.43	.00	4.28
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.02	.02	.00	.15
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.21	.00	.00	.00	.00	.00	.00	.21
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.01
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	32	34	25	9	23	13	20	20	23	40	98	54	10	15	21	30	0	467
(1)	6.85	7.28	5.35	1.93	4.93	2.78	4.28	4.28	4.93	8.57	20.99	11.56	2.14	3.21	4.50	6.42	.00	100.00
(2)	.25	.26	.19	.07	.18	.10	.15	.15	.18	.31	.75	.41	.08	.12	.16	.23	.00	3.59

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-33—{SSES 33' (10-m) 2001-2006 Spring JFD - continued}

(Page 1 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 4.85**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	3	1	5	2	3	0	0	1	0	0	1	0	0	0	16
(1)	.00	.00	.00	.47	.16	.79	.32	.47	.00	.00	.16	.00	.00	.16	.00	.00	.00	2.53
(2)	.00	.00	.00	.02	.01	.04	.02	.02	.00	.00	.01	.00	.00	.01	.00	.00	.00	.12
1.1- 1.5	1	1	3	4	5	2	4	1	7	4	4	0	1	0	0	1	0	38
(1)	.16	.16	.47	.63	.79	.32	.63	.16	1.11	.63	.63	.00	.16	.00	.00	.16	.00	6.01
(2)	.01	.01	.02	.03	.04	.02	.03	.01	.05	.03	.03	.00	.01	.00	.00	.01	.00	.29
1.6- 2.0	2	2	3	4	6	4	2	1	5	9	7	1	1	0	0	1	0	48
(1)	.32	.32	.47	.63	.95	.63	.32	.16	.79	1.42	1.11	.16	.16	.00	.00	.16	.00	7.59
(2)	.02	.02	.02	.03	.05	.03	.02	.01	.04	.07	.05	.01	.01	.00	.00	.01	.00	.37
2.1- 3.0	8	16	16	5	6	3	8	5	10	17	32	18	3	0	0	4	0	151
(1)	1.27	2.53	2.53	.79	.95	.47	1.27	.79	1.58	2.69	5.06	2.85	.47	.00	.00	.63	.00	23.89
(2)	.06	.12	.12	.04	.05	.02	.06	.04	.08	.13	.25	.14	.02	.00	.00	.03	.00	1.16
3.1- 4.0	25	19	3	3	2	4	9	5	11	7	35	18	6	6	9	7	0	169
(1)	3.96	3.01	.47	.47	.32	.63	1.42	.79	1.74	1.11	5.54	2.85	.95	.95	1.42	1.11	.00	26.74
(2)	.19	.15	.02	.02	.02	.03	.07	.04	.08	.05	.27	.14	.05	.05	.07	.05	.00	1.30
4.1- 5.0	12	6	1	0	0	2	2	3	7	2	19	22	6	6	6	12	0	106
(1)	1.90	.95	.16	.00	.00	.32	.32	.47	1.11	.32	3.01	3.48	.95	.95	.95	1.90	.00	16.77
(2)	.09	.05	.01	.00	.00	.02	.02	.02	.05	.02	.15	.17	.05	.05	.05	.09	.00	.81
5.1- 6.0	6	2	0	0	0	0	1	0	0	0	9	18	10	2	12	11	0	71
(1)	.95	.32	.00	.00	.00	.00	.16	.00	.00	.00	1.42	2.85	1.58	.32	1.90	1.74	.00	11.23
(2)	.05	.02	.00	.00	.00	.00	.01	.00	.00	.00	.07	.14	.08	.02	.09	.08	.00	.55

Table 2.3-33—{SSES 33' (10-m) 2001-2006 Spring JFD - continued}

(Page 2 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 4.85**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	2	0	0	0	0	0	1	0	0	0	6	13	3	0	2	3	0	30
(1)	.32	.00	.00	.00	.00	.00	.16	.00	.00	.00	.95	2.06	.47	.00	.32	.47	.00	4.75
(2)	.02	.00	.00	.00	.00	.00	.01	.00	.00	.00	.05	.10	.02	.00	.02	.02	.00	.23
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16	.32	.00	.00	.00	.00	.00	.47
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.00	.00	.00	.00	.00	.02
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	56	46	26	19	20	20	29	18	40	39	114	92	30	15	29	39	0	632
(1)	8.86	7.28	4.11	3.01	3.16	3.16	4.59	2.85	6.33	6.17	18.04	14.56	4.75	2.37	4.59	6.17	.00	100.00
(2)	.43	.35	.20	.15	.15	.15	.22	.14	.31	.30	.88	.71	.23	.12	.22	.30	.00	4.85

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-33—{SSES 33' (10-m) 2001-2006 Spring JFD - continued}

(Page 1 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 42.13**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	1	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	5
(1)	.02	.00	.02	.02	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
(2)	.01	.00	.01	.01	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
.2- .4	0	0	0	2	0	1	2	1	0	0	0	0	0	0	0	0	0	6
(1)	.00	.00	.00	.04	.00	.02	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11
(2)	.00	.00	.00	.02	.00	.01	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
.5- 1.0	6	16	34	30	53	50	37	21	29	9	5	3	3	3	3	2	0	304
(1)	.11	.29	.62	.55	.97	.91	.67	.38	.53	.16	.09	.05	.05	.05	.05	.04	.00	5.54
(2)	.05	.12	.26	.23	.41	.38	.28	.16	.22	.07	.04	.02	.02	.02	.02	.02	.00	2.33
1.1- 1.5	21	63	60	42	47	26	40	37	50	53	41	19	11	8	9	13	0	540
(1)	.38	1.15	1.09	.77	.86	.47	.73	.67	.91	.97	.75	.35	.20	.15	.16	.24	.00	9.84
(2)	.16	.48	.46	.32	.36	.20	.31	.28	.38	.41	.31	.15	.08	.06	.07	.10	.00	4.15
1.6- 2.0	37	72	83	44	44	44	47	34	38	56	57	26	30	9	18	11	0	650
(1)	.67	1.31	1.51	.80	.80	.80	.86	.62	.69	1.02	1.04	.47	.55	.16	.33	.20	.00	11.85
(2)	.28	.55	.64	.34	.34	.34	.36	.26	.29	.43	.44	.20	.23	.07	.14	.08	.00	4.99
2.1- 3.0	135	196	145	55	52	71	84	71	67	93	156	70	54	80	88	81	0	1498
(1)	2.46	3.57	2.64	1.00	.95	1.29	1.53	1.29	1.22	1.70	2.84	1.28	.98	1.46	1.60	1.48	.00	27.31
(2)	1.04	1.51	1.11	.42	.40	.55	.65	.55	.51	.71	1.20	.54	.41	.61	.68	.62	.00	11.50
3.1- 4.0	170	118	55	19	21	32	55	54	47	37	108	81	57	97	119	125	0	1195
(1)	3.10	2.15	1.00	.35	.38	.58	1.00	.98	.86	.67	1.97	1.48	1.04	1.77	2.17	2.28	.00	21.78
(2)	1.31	.91	.42	.15	.16	.25	.42	.41	.36	.28	.83	.62	.44	.74	.91	.96	.00	9.18
4.1- 5.0	90	36	10	4	9	16	10	11	22	11	69	80	68	67	132	104	0	739
(1)	1.64	.66	.18	.07	.16	.29	.18	.20	.40	.20	1.26	1.46	1.24	1.22	2.41	1.90	.00	13.47
(2)	.69	.28	.08	.03	.07	.12	.08	.08	.17	.08	.53	.61	.52	.51	1.01	.80	.00	5.68
5.1- 6.0	17	8	4	1	4	5	1	3	2	1	33	62	57	65	67	40	0	370
(1)	.31	.15	.07	.02	.07	.09	.02	.05	.04	.02	.60	1.13	1.04	1.18	1.22	.73	.00	6.74
(2)	.13	.06	.03	.01	.03	.04	.01	.02	.02	.01	.25	.48	.44	.50	.51	.31	.00	2.84

Table 2.3-33—{SSES 33' (10-m) 2001-2006 Spring JFD - continued}

(Page 2 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 42.13**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	3	1	1	0	0	1	2	0	1	2	10	42	47	26	19	13	0	168
(1)	.05	.02	.02	.00	.00	.02	.04	.00	.02	.04	.18	.77	.86	.47	.35	.24	.00	3.06
(2)	.02	.01	.01	.00	.00	.01	.02	.00	.01	.02	.08	.32	.36	.20	.15	.10	.00	1.29
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	5	4	0	0	1	0	11
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.09	.07	.00	.00	.02	.00	.20
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.03	.00	.00	.01	.00	.08
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	480	510	393	198	232	246	278	232	256	262	480	388	331	355	455	390	0	5486
(1)	8.75	9.30	7.16	3.61	4.23	4.48	5.07	4.23	4.67	4.78	8.75	7.07	6.03	6.47	8.29	7.11	.00	100.00
(2)	3.69	3.92	3.02	1.52	1.78	1.89	2.14	1.78	1.97	2.01	3.69	2.98	2.54	2.73	3.49	3.00	.00	42.13

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-33—{SSES 33' (10-m) 2001-2006 Spring JFD - continued}

(Page 1 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 24.88**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	3	3	2	1	0	0	0	1	0	0	0	0	0	0	0	10
(1)	.00	.00	.09	.09	.06	.03	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.31
(2)	.00	.00	.02	.02	.02	.01	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.08
.2- .4	0	1	4	1	2	2	1	2	2	2	0	0	0	0	0	1	0	18
(1)	.00	.03	.12	.03	.06	.06	.03	.06	.06	.06	.00	.00	.00	.00	.00	.03	.00	.56
(2)	.00	.01	.03	.01	.02	.02	.01	.02	.02	.02	.00	.00	.00	.00	.00	.01	.00	.14
.5- 1.0	23	60	128	200	156	113	97	78	65	58	27	8	5	3	4	7	0	1032
(1)	.71	1.85	3.95	6.17	4.82	3.49	2.99	2.41	2.01	1.79	.83	.25	.15	.09	.12	.22	.00	31.86
(2)	.18	.46	.98	1.54	1.20	.87	.74	.60	.50	.45	.21	.06	.04	.02	.03	.05	.00	7.93
1.1- 1.5	38	106	114	73	34	26	46	45	81	89	47	20	15	4	7	15	0	760
(1)	1.17	3.27	3.52	2.25	1.05	.80	1.42	1.39	2.50	2.75	1.45	.62	.46	.12	.22	.46	.00	23.46
(2)	.29	.81	.88	.56	.26	.20	.35	.35	.62	.68	.36	.15	.12	.03	.05	.12	.00	5.84
1.6- 2.0	44	95	67	22	12	11	12	38	36	72	50	21	15	12	10	9	0	526
(1)	1.36	2.93	2.07	.68	.37	.34	.37	1.17	1.11	2.22	1.54	.65	.46	.37	.31	.28	.00	16.24
(2)	.34	.73	.51	.17	.09	.08	.09	.29	.28	.55	.38	.16	.12	.09	.08	.07	.00	4.04
2.1- 3.0	58	85	77	14	21	19	20	20	52	53	65	30	19	6	18	33	0	590
(1)	1.79	2.62	2.38	.43	.65	.59	.62	.62	1.61	1.64	2.01	.93	.59	.19	.56	1.02	.00	18.22
(2)	.45	.65	.59	.11	.16	.15	.15	.15	.40	.41	.50	.23	.15	.05	.14	.25	.00	4.53
3.1- 4.0	26	32	19	7	4	6	2	5	23	24	34	12	4	4	10	14	0	226
(1)	.80	.99	.59	.22	.12	.19	.06	.15	.71	.74	1.05	.37	.12	.12	.31	.43	.00	6.98
(2)	.20	.25	.15	.05	.03	.05	.02	.04	.18	.18	.26	.09	.03	.03	.08	.11	.00	1.74
4.1- 5.0	4	4	1	0	4	1	1	1	5	10	12	4	3	2	2	2	0	56
(1)	.12	.12	.03	.00	.12	.03	.03	.03	.15	.31	.37	.12	.09	.06	.06	.06	.00	1.73
(2)	.03	.03	.01	.00	.03	.01	.01	.01	.04	.08	.09	.03	.02	.02	.02	.02	.00	.43
5.1- 6.0	1	0	0	0	0	0	0	0	2	0	6	0	0	4	0	1	0	14
(1)	.03	.00	.00	.00	.00	.00	.00	.00	.06	.00	.19	.00	.00	.12	.00	.03	.00	.43
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.02	.00	.05	.00	.00	.03	.00	.01	.00	.11

Table 2.3-33—{SSES 33' (10-m) 2001-2006 Spring JFD - continued}

(Page 2 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 24.88**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	1	0	3	0	2	0	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.03	.00	.09	.00	.06	.00	.00	.00	.00	.00	.00	.19
(2)	.00	.00	.00	.00	.00	.00	.01	.00	.02	.00	.02	.00	.00	.00	.00	.00	.00	.05
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.03
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.01
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	194	383	413	320	235	179	180	189	269	309	244	95	61	35	51	82	0	3239
(1)	5.99	11.82	12.75	9.88	7.26	5.53	5.56	5.84	8.31	9.54	7.53	2.93	1.88	1.08	1.57	2.53	.00	100.00
(2)	1.49	2.94	3.17	2.46	1.80	1.37	1.38	1.45	2.07	2.37	1.87	.73	.47	.27	.39	.63	.00	24.88

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-33—{SSES 33' (10-m) 2001-2006 Spring JFD - continued}

(Page 1 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 9.46**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.08	.08	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24
(2)	.00	.00	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.2- .4	0	2	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	5
(1)	.00	.16	.00	.08	.08	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.41
(2)	.00	.02	.00	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
.5- 1.0	4	25	115	311	166	71	49	31	30	16	10	2	3	1	3	0	0	837
(1)	.32	2.03	9.33	25.24	13.47	5.76	3.98	2.52	2.44	1.30	.81	.16	.24	.08	.24	.00	.00	67.94
(2)	.03	.19	.88	2.39	1.27	.55	.38	.24	.23	.12	.08	.02	.02	.01	.02	.00	.00	6.43
1.1- 1.5	6	17	77	116	11	4	5	14	16	13	15	3	1	0	1	0	0	299
(1)	.49	1.38	6.25	9.42	.89	.32	.41	1.14	1.30	1.06	1.22	.24	.08	.00	.08	.00	.00	24.27
(2)	.05	.13	.59	.89	.08	.03	.04	.11	.12	.10	.12	.02	.01	.00	.01	.00	.00	2.30
1.6- 2.0	3	10	13	10	1	1	0	3	4	8	6	3	0	0	2	0	0	64
(1)	.24	.81	1.06	.81	.08	.08	.00	.24	.32	.65	.49	.24	.00	.00	.16	.00	.00	5.19
(2)	.02	.08	.10	.08	.01	.01	.00	.02	.03	.06	.05	.02	.00	.00	.02	.00	.00	.49
2.1- 3.0	3	3	1	0	0	0	0	0	2	0	8	2	1	1	0	0	0	21
(1)	.24	.24	.08	.00	.00	.00	.00	.00	.16	.00	.65	.16	.08	.08	.00	.00	.00	1.70
(2)	.02	.02	.01	.00	.00	.00	.00	.00	.02	.00	.06	.02	.01	.01	.00	.00	.00	.16
3.1- 4.0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	.08	.08	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24
(2)	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-33—{SSES 33' (10-m) 2001-2006 Spring JFD - continued}

(Page 2 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 9.46**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	17	58	208	439	180	77	54	48	52	37	39	10	5	2	6	0	0	1232
(1)	1.38	4.71	16.88	35.63	14.61	6.25	4.38	3.90	4.22	3.00	3.17	.81	.41	.16	.49	.00	.00	100.00
(2)	.13	.45	1.60	3.37	1.38	.59	.41	.37	.40	.28	.30	.08	.04	.02	.05	.00	.00	9.46

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-33—{SSES 33' (10-m) 2001-2006 Spring JFD - continued}

(Page 1 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 8.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10
(2)	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
.2- .4	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.10	.10	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.29
(2)	.00	.00	.00	.00	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	2	12	128	326	96	30	19	14	5	3	0	0	0	0	0	0	0	635
(1)	.19	1.15	12.28	31.29	9.21	2.88	1.82	1.34	.48	.29	.00	.00	.00	.00	.00	.00	.00	60.94
(2)	.02	.09	.98	2.50	.74	.23	.15	.11	.04	.02	.00	.00	.00	.00	.00	.00	.00	4.88
1.1- 1.5	1	4	86	245	7	5	0	1	5	2	0	0	0	0	0	1	0	357
(1)	.10	.38	8.25	23.51	.67	.48	.00	.10	.48	.19	.00	.00	.00	.00	.00	.10	.00	34.26
(2)	.01	.03	.66	1.88	.05	.04	.00	.01	.04	.02	.00	.00	.00	.00	.00	.01	.00	2.74
1.6- 2.0	0	3	11	26	0	0	0	0	0	0	1	0	0	0	0	0	0	41
(1)	.00	.29	1.06	2.50	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	3.93
(2)	.00	.02	.08	.20	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.31
2.1- 3.0	0	2	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	5
(1)	.00	.19	.10	.10	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.48
(2)	.00	.02	.01	.01	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-33—{SSES 33' (10-m) 2001-2006 Spring JFD - continued}

(Page 2 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 8.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	3	21	226	599	104	36	21	15	10	5	1	0	0	0	0	1	0	1042
(1)	.29	2.02	21.69	57.49	9.98	3.45	2.02	1.44	.96	.48	.10	.00	.00	.00	.00	.10	.00	100.00
(2)	.02	.16	1.74	4.60	.80	.28	.16	.12	.08	.04	.01	.00	.00	.00	.00	.01	.00	8.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-33—{SSES 33' (10-m) 2001-2006 Spring JFD - continued}

(Page 1 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS ALL — CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	1	0	5	6	5	1	0	0	0	1	0	0	0	0	0	0	0	19
(1)	.01	.00	.04	.05	.04	.01	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.15
(2)	.01	.00	.04	.05	.04	.01	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.15
.2- .4	0	3	4	4	4	5	4	3	2	2	0	0	0	0	0	1	0	32
(1)	.00	.02	.03	.03	.03	.04	.03	.02	.02	.02	.00	.00	.00	.00	.00	.01	.00	.25
(2)	.00	.02	.03	.03	.03	.04	.03	.02	.02	.02	.00	.00	.00	.00	.00	.01	.00	.25
.5- 1.0	35	113	405	870	474	270	206	149	130	86	45	14	11	8	10	9	0	2835
(1)	.27	.87	3.11	6.68	3.64	2.07	1.58	1.14	1.00	.66	.35	.11	.08	.06	.08	.07	.00	21.77
(2)	.27	.87	3.11	6.68	3.64	2.07	1.58	1.14	1.00	.66	.35	.11	.08	.06	.08	.07	.00	21.77
1.1- 1.5	68	194	349	489	115	69	99	102	170	173	115	44	29	13	18	30	0	2077
(1)	.52	1.49	2.68	3.76	.88	.53	.76	.78	1.31	1.33	.88	.34	.22	.10	.14	.23	.00	15.95
(2)	.52	1.49	2.68	3.76	.88	.53	.76	.78	1.31	1.33	.88	.34	.22	.10	.14	.23	.00	15.95
1.6- 2.0	89	186	188	116	77	75	69	89	99	160	150	54	49	22	32	21	0	1476
(1)	.68	1.43	1.44	.89	.59	.58	.53	.68	.76	1.23	1.15	.41	.38	.17	.25	.16	.00	11.34
(2)	.68	1.43	1.44	.89	.59	.58	.53	.68	.76	1.23	1.15	.41	.38	.17	.25	.16	.00	11.34
2.1- 3.0	212	324	261	80	89	102	133	117	164	230	343	154	83	88	108	121	0	2609
(1)	1.63	2.49	2.00	.61	.68	.78	1.02	.90	1.26	1.77	2.63	1.18	.64	.68	.83	.93	.00	20.04
(2)	1.63	2.49	2.00	.61	.68	.78	1.02	.90	1.26	1.77	2.63	1.18	.64	.68	.83	.93	.00	20.04
3.1- 4.0	247	213	100	31	33	44	79	77	124	113	270	139	73	117	145	155	0	1960
(1)	1.90	1.64	.77	.24	.25	.34	.61	.59	.95	.87	2.07	1.07	.56	.90	1.11	1.19	.00	15.05
(2)	1.90	1.64	.77	.24	.25	.34	.61	.59	.95	.87	2.07	1.07	.56	.90	1.11	1.19	.00	15.05
4.1- 5.0	133	65	16	4	15	20	29	23	51	51	178	146	88	87	150	137	0	1193
(1)	1.02	.50	.12	.03	.12	.15	.22	.18	.39	.39	1.37	1.12	.68	.67	1.15	1.05	.00	9.16
(2)	1.02	.50	.12	.03	.12	.15	.22	.18	.39	.39	1.37	1.12	.68	.67	1.15	1.05	.00	9.16
5.1- 6.0	34	14	4	1	4	6	5	3	5	5	80	110	70	72	87	63	0	563
(1)	.26	.11	.03	.01	.03	.05	.04	.02	.04	.04	.61	.84	.54	.55	.67	.48	.00	4.32
(2)	.26	.11	.03	.01	.03	.05	.04	.02	.04	.04	.61	.84	.54	.55	.67	.48	.00	4.32

Table 2.3-33—{SSES 33' (10-m) 2001-2006 Spring JFD - continued}

(Page 2 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	11	1	1	0	0	1	4	1	5	2	31	63	50	26	25	20	0	241
(1)	.08	.01	.01	.00	.00	.01	.03	.01	.04	.02	.24	.48	.38	.20	.19	.15	.00	1.85
(2)	.08	.01	.01	.00	.00	.01	.03	.01	.04	.02	.24	.48	.38	.20	.19	.15	.00	1.85
8.1-10.0	0	0	0	0	0	0	0	0	0	0	4	7	4	0	0	1	0	16
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.05	.03	.00	.00	.01	.00	.12
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.05	.03	.00	.00	.01	.00	.12
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	830	1113	1333	1601	816	593	628	564	750	823	1216	731	457	433	575	558	0	13021
(1)	6.37	8.55	10.24	12.30	6.27	4.55	4.82	4.33	5.76	6.32	9.34	5.61	3.51	3.33	4.42	4.29	.00	100.00
(2)	6.37	8.55	10.24	12.30	6.27	4.55	4.82	4.33	5.76	6.32	9.34	5.61	3.51	3.33	4.42	4.29	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-34 {SSES 33' (10-m) 2001-2006 Summer JFD}

(Page 1 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 10.27**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	1	1	7	6	10	6	4	0	0	0	0	0	0	0	0	35
(1)	.00	.00	.07	.07	.51	.44	.74	.44	.29	.00	.00	.00	.00	.00	.00	.00	.00	2.57
(2)	.00	.00	.01	.01	.05	.05	.08	.05	.03	.00	.00	.00	.00	.00	.00	.00	.00	.26
1.1- 1.5	1	5	22	26	20	19	11	15	21	20	15	5	3	1	0	2	0	186
(1)	.07	.37	1.62	1.91	1.47	1.40	.81	1.10	1.54	1.47	1.10	.37	.22	.07	.00	.15	.00	13.68
(2)	.01	.04	.17	.20	.15	.14	.08	.11	.16	.15	.11	.04	.02	.01	.00	.02	.00	1.40
1.6- 2.0	3	10	9	15	15	8	13	14	14	34	31	10	1	1	1	3	0	182
(1)	.22	.74	.66	1.10	1.10	.59	.96	1.03	1.03	2.50	2.28	.74	.07	.07	.07	.22	.00	13.38
(2)	.02	.08	.07	.11	.11	.06	.10	.11	.11	.26	.23	.08	.01	.01	.01	.02	.00	1.37
2.1- 3.0	15	29	33	8	3	2	20	10	30	82	172	22	4	6	2	10	0	448
(1)	1.10	2.13	2.43	.59	.22	.15	1.47	.74	2.21	6.03	12.65	1.62	.29	.44	.15	.74	.00	32.94
(2)	.11	.22	.25	.06	.02	.02	.15	.08	.23	.62	1.30	.17	.03	.05	.02	.08	.00	3.38
3.1- 4.0	32	27	1	0	0	1	4	2	6	41	172	48	15	7	6	7	0	369
(1)	2.35	1.99	.07	.00	.00	.07	.29	.15	.44	3.01	12.65	3.53	1.10	.51	.44	.51	.00	27.13
(2)	.24	.20	.01	.00	.00	.01	.03	.02	.05	.31	1.30	.36	.11	.05	.05	.05	.00	2.79
4.1- 5.0	4	4	0	0	0	1	1	0	0	0	43	54	7	0	2	4	0	120
(1)	.29	.29	.00	.00	.00	.07	.07	.00	.00	.00	3.16	3.97	.51	.00	.15	.29	.00	8.82
(2)	.03	.03	.00	.00	.00	.01	.01	.00	.00	.00	.32	.41	.05	.00	.02	.03	.00	.91
5.1- 6.0	2	1	0	0	0	0	0	0	0	0	3	10	1	0	1	1	0	19
(1)	.15	.07	.00	.00	.00	.00	.00	.00	.00	.00	.22	.74	.07	.00	.07	.07	.00	1.40
(2)	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.02	.08	.01	.00	.01	.01	.00	.14

Table 2.3-34 {SSES 33' (10-m) 2001-2006 Summer JFD}

(Page 2 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 10.27**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.07
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.01
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	57	76	66	50	45	37	59	47	75	177	436	150	31	15	12	27	0	1360
(1)	4.19	5.59	4.85	3.68	3.31	2.72	4.34	3.46	5.51	13.01	32.06	11.03	2.28	1.10	.88	1.99	.00	100.00
(2)	.43	.57	.50	.38	.34	.28	.45	.35	.57	1.34	3.29	1.13	.23	.11	.09	.20	.00	10.27

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-34—{SSES 33' (10-m) 2001-2006 Summer JFD - continued}

(Page 1 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 4.32**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	1	0	1	2	6	8	1	2	1	0	0	0	0	0	0	0	0	22
(1)	.17	.00	.17	.35	1.05	1.40	.17	.35	.17	.00	.00	.00	.00	.00	.00	.00	.00	3.85
(2)	.01	.00	.01	.02	.05	.06	.01	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.17
1.1- 1.5	4	0	8	15	7	4	8	3	7	3	5	1	0	0	0	0	0	65
(1)	.70	.00	1.40	2.62	1.22	.70	1.40	.52	1.22	.52	.87	.17	.00	.00	.00	.00	.00	11.36
(2)	.03	.00	.06	.11	.05	.03	.06	.02	.05	.02	.04	.01	.00	.00	.00	.00	.00	.49
1.6- 2.0	6	10	6	7	3	2	5	5	3	11	8	3	0	0	0	4	0	73
(1)	1.05	1.75	1.05	1.22	.52	.35	.87	.87	.52	1.92	1.40	.52	.00	.00	.00	.70	.00	12.76
(2)	.05	.08	.05	.05	.02	.02	.04	.04	.02	.08	.06	.02	.00	.00	.00	.03	.00	.55
2.1- 3.0	6	30	18	4	2	0	6	2	8	28	55	9	4	1	4	2	0	179
(1)	1.05	5.24	3.15	.70	.35	.00	1.05	.35	1.40	4.90	9.62	1.57	.70	.17	.70	.35	.00	31.29
(2)	.05	.23	.14	.03	.02	.00	.05	.02	.06	.21	.42	.07	.03	.01	.03	.02	.00	1.35
3.1- 4.0	16	6	2	0	0	1	1	0	0	10	76	23	13	6	4	10	0	168
(1)	2.80	1.05	.35	.00	.00	.17	.17	.00	.00	1.75	13.29	4.02	2.27	1.05	.70	1.75	.00	29.37
(2)	.12	.05	.02	.00	.00	.01	.01	.00	.00	.08	.57	.17	.10	.05	.03	.08	.00	1.27
4.1- 5.0	5	3	0	0	0	0	0	0	0	0	19	11	8	0	2	4	0	52
(1)	.87	.52	.00	.00	.00	.00	.00	.00	.00	.00	3.32	1.92	1.40	.00	.35	.70	.00	9.09
(2)	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.14	.08	.06	.00	.02	.03	.00	.39
5.1- 6.0	3	0	0	0	0	0	0	0	0	0	2	6	0	0	0	1	0	12
(1)	.52	.00	.00	.00	.00	.00	.00	.00	.00	.00	.35	1.05	.00	.00	.00	.17	.00	2.10
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.00	.00	.00	.01	.00	.09

Table 2.3-34—{SSES 33' (10-m) 2001-2006 Summer JFD - continued}

(Page 2 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 4.32**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.17
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	42	49	35	28	18	15	21	12	19	52	165	53	25	7	10	21	0	572
(1)	7.34	8.57	6.12	4.90	3.15	2.62	3.67	2.10	3.32	9.09	28.85	9.27	4.37	1.22	1.75	3.67	.00	100.00
(2)	.32	.37	.26	.21	.14	.11	.16	.09	.14	.39	1.25	.40	.19	.05	.08	.16	.00	4.32

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-34—{SSES 33' (10-m) 2001-2006 Summer JFD - continued}

(Page 1 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 5.43**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	2	4	1	8	9	7	3	5	3	0	0	0	0	0	0	0	42
(1)	.00	.28	.56	.14	1.11	1.25	.97	.42	.70	.42	.00	.00	.00	.00	.00	.00	.00	5.84
(2)	.00	.02	.03	.01	.06	.07	.05	.02	.04	.02	.00	.00	.00	.00	.00	.00	.00	.32
1.1- 1.5	5	10	6	15	13	3	5	4	10	10	6	0	3	0	1	1	0	92
(1)	.70	1.39	.83	2.09	1.81	.42	.70	.56	1.39	1.39	.83	.00	.42	.00	.14	.14	.00	12.80
(2)	.04	.08	.05	.11	.10	.02	.04	.03	.08	.08	.05	.00	.02	.00	.01	.01	.00	.69
1.6- 2.0	8	10	9	9	3	5	8	5	7	9	17	6	3	3	3	1	0	106
(1)	1.11	1.39	1.25	1.25	.42	.70	1.11	.70	.97	1.25	2.36	.83	.42	.42	.42	.14	.00	14.74
(2)	.06	.08	.07	.07	.02	.04	.06	.04	.05	.07	.13	.05	.02	.02	.02	.01	.00	.80
2.1- 3.0	24	24	11	3	1	2	2	4	8	36	68	17	4	3	8	10	0	225
(1)	3.34	3.34	1.53	.42	.14	.28	.28	.56	1.11	5.01	9.46	2.36	.56	.42	1.11	1.39	.00	31.29
(2)	.18	.18	.08	.02	.01	.02	.02	.03	.06	.27	.51	.13	.03	.02	.06	.08	.00	1.70
3.1- 4.0	19	4	0	0	0	0	2	0	5	8	60	26	9	2	13	13	0	161
(1)	2.64	.56	.00	.00	.00	.00	.28	.00	.70	1.11	8.34	3.62	1.25	.28	1.81	1.81	.00	22.39
(2)	.14	.03	.00	.00	.00	.00	.02	.00	.04	.06	.45	.20	.07	.02	.10	.10	.00	1.22
4.1- 5.0	3	1	0	0	0	0	0	0	0	0	21	27	5	3	4	3	0	67
(1)	.42	.14	.00	.00	.00	.00	.00	.00	.00	.00	2.92	3.76	.70	.42	.56	.42	.00	9.32
(2)	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.16	.20	.04	.02	.03	.02	.00	.51
5.1- 6.0	2	1	0	0	0	0	0	0	0	0	5	6	0	0	5	4	0	23
(1)	.28	.14	.00	.00	.00	.00	.00	.00	.00	.00	.70	.83	.00	.00	.70	.56	.00	3.20
(2)	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.04	.05	.00	.00	.04	.03	.00	.17

Table 2.3-34—{SSES 33' (10-m) 2001-2006 Summer JFD - continued}

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SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 5.43**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.42	.00	.00	.00	.00	.00	.42
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	61	52	30	28	25	19	24	16	35	66	177	85	24	11	34	32	0	719
(1)	8.48	7.23	4.17	3.89	3.48	2.64	3.34	2.23	4.87	9.18	24.62	11.82	3.34	1.53	4.73	4.45	.00	100.00
(2)	.46	.39	.23	.21	.19	.14	.18	.12	.26	.50	1.34	.64	.18	.08	.26	.24	.00	5.43

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-34—{SSES 33' (10-m) 2001-2006 Summer JFD - continued}

(Page 1 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 29.75**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	0	1	1	0	2	0	0	0	0	0	0	0	0	0	5
(1)	.00	.00	.03	.00	.03	.03	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13
(2)	.00	.00	.01	.00	.01	.01	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
.5- 1.0	6	37	76	87	107	84	78	44	49	28	23	5	4	0	3	2	0	633
(1)	.15	.94	1.93	2.21	2.72	2.13	1.98	1.12	1.24	.71	.58	.13	.10	.00	.08	.05	.00	16.06
(2)	.05	.28	.57	.66	.81	.63	.59	.33	.37	.21	.17	.04	.03	.00	.02	.02	.00	4.78
1.1- 1.5	39	82	98	76	49	41	58	47	90	108	76	29	8	7	8	8	0	824
(1)	.99	2.08	2.49	1.93	1.24	1.04	1.47	1.19	2.28	2.74	1.93	.74	.20	.18	.20	.20	.00	20.91
(2)	.29	.62	.74	.57	.37	.31	.44	.35	.68	.82	.57	.22	.06	.05	.06	.06	.00	6.22
1.6- 2.0	47	103	55	27	28	31	55	46	61	104	97	32	14	11	9	16	0	736
(1)	1.19	2.61	1.40	.69	.71	.79	1.40	1.17	1.55	2.64	2.46	.81	.36	.28	.23	.41	.00	18.68
(2)	.35	.78	.42	.20	.21	.23	.42	.35	.46	.79	.73	.24	.11	.08	.07	.12	.00	5.56
2.1- 3.0	101	106	55	14	14	34	49	55	85	143	224	72	22	25	33	69	0	1101
(1)	2.56	2.69	1.40	.36	.36	.86	1.24	1.40	2.16	3.63	5.68	1.83	.56	.63	.84	1.75	.00	27.94
(2)	.76	.80	.42	.11	.11	.26	.37	.42	.64	1.08	1.69	.54	.17	.19	.25	.52	.00	8.31
3.1- 4.0	55	34	2	0	1	4	6	1	12	15	160	59	24	13	42	50	0	478
(1)	1.40	.86	.05	.00	.03	.10	.15	.03	.30	.38	4.06	1.50	.61	.33	1.07	1.27	.00	12.13
(2)	.42	.26	.02	.00	.01	.03	.05	.01	.09	.11	1.21	.45	.18	.10	.32	.38	.00	3.61
4.1- 5.0	11	0	0	0	0	0	0	0	1	2	37	36	7	3	17	23	0	137
(1)	.28	.00	.00	.00	.00	.00	.00	.00	.03	.05	.94	.91	.18	.08	.43	.58	.00	3.48
(2)	.08	.00	.00	.00	.00	.00	.00	.00	.01	.02	.28	.27	.05	.02	.13	.17	.00	1.03
5.1- 6.0	2	0	0	0	0	0	0	0	0	0	8	14	0	0	0	1	0	25
(1)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20	.36	.00	.00	.00	.03	.00	.63
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.11	.00	.00	.00	.01	.00	.19

Table 2.3-34—{SSES 33' (10-m) 2001-2006 Summer JFD - continued}

(Page 2 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 29.75**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	261	362	287	204	200	195	246	195	298	400	625	249	79	59	112	169	0	3941
(1)	6.62	9.19	7.28	5.18	5.07	4.95	6.24	4.95	7.56	10.15	15.86	6.32	2.00	1.50	2.84	4.29	.00	100.00
(2)	1.97	2.73	2.17	1.54	1.51	1.47	1.86	1.47	2.25	3.02	4.72	1.88	.60	.45	.85	1.28	.00	29.75

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-34—{SSES 33' (10-m) 2001-2006 Summer JFD - continued}

(Page 1 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 30.03**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	3	12	3	3	4	1	0	0	0	0	0	0	0	0	27
(1)	.00	.00	.03	.08	.30	.08	.08	.10	.03	.00	.00	.00	.00	.00	.00	.00	.00	.68
(2)	.00	.00	.01	.02	.09	.02	.02	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.20
.5- 1.0	24	65	228	445	376	211	184	115	111	37	11	2	4	6	2	3	0	1824
(1)	.60	1.63	5.73	11.19	9.45	5.30	4.63	2.89	2.79	.93	.28	.05	.10	.15	.05	.08	.00	45.85
(2)	.18	.49	1.72	3.36	2.84	1.59	1.39	.87	.84	.28	.08	.02	.03	.05	.02	.02	.00	13.77
1.1- 1.5	38	143	243	181	40	34	55	70	153	147	41	17	7	4	8	4	0	1185
(1)	.96	3.59	6.11	4.55	1.01	.85	1.38	1.76	3.85	3.70	1.03	.43	.18	.10	.20	.10	.00	29.79
(2)	.29	1.08	1.83	1.37	.30	.26	.42	.53	1.16	1.11	.31	.13	.05	.03	.06	.03	.00	8.95
1.6- 2.0	52	104	47	19	7	17	18	17	57	113	51	15	3	6	4	10	0	540
(1)	1.31	2.61	1.18	.48	.18	.43	.45	.43	1.43	2.84	1.28	.38	.08	.15	.10	.25	.00	13.57
(2)	.39	.79	.35	.14	.05	.13	.14	.13	.43	.85	.39	.11	.02	.05	.03	.08	.00	4.08
2.1- 3.0	38	47	7	2	2	3	7	8	16	52	71	9	4	6	15	29	0	316
(1)	.96	1.18	.18	.05	.05	.08	.18	.20	.40	1.31	1.78	.23	.10	.15	.38	.73	.00	7.94
(2)	.29	.35	.05	.02	.02	.02	.05	.06	.12	.39	.54	.07	.03	.05	.11	.22	.00	2.39
3.1- 4.0	9	8	1	0	0	0	6	2	4	4	15	4	5	4	4	10	0	76
(1)	.23	.20	.03	.00	.00	.00	.15	.05	.10	.10	.38	.10	.13	.10	.10	.25	.00	1.91
(2)	.07	.06	.01	.00	.00	.00	.05	.02	.03	.03	.11	.03	.04	.03	.03	.08	.00	.57
4.1- 5.0	0	0	0	0	0	0	0	2	1	0	3	0	0	0	1	2	0	9
(1)	.00	.00	.00	.00	.00	.00	.00	.05	.03	.00	.08	.00	.00	.00	.03	.05	.00	.23
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.01	.00	.02	.00	.00	.00	.01	.02	.00	.07
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.03
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.01

Table 2.3-34—{SSES 33' (10-m) 2001-2006 Summer JFD - continued}

(Page 2 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 30.03**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	161	367	527	650	437	268	273	218	343	353	193	47	23	26	34	58	0	3978
(1)	4.05	9.23	13.25	16.34	10.99	6.74	6.86	5.48	8.62	8.87	4.85	1.18	.58	.65	.85	1.46	.00	100.00
(2)	1.22	2.77	3.98	4.91	3.30	2.02	2.06	1.65	2.59	2.66	1.46	.35	.17	.20	.26	.44	.00	30.03

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-34—{SSES 33' (10-m) 2001-2006 Summer JFD - continued}

(Page 1 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 15.10**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	2	7	3	2	0	0	0	0	0	0	0	0	0	0	15
(1)	.00	.00	.05	.10	.35	.15	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.75
(2)	.00	.00	.01	.02	.05	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11
.5- 1.0	1	18	105	614	335	106	62	27	26	5	4	1	0	0	2	1	0	1307
(1)	.05	.90	5.25	30.70	16.75	5.30	3.10	1.35	1.30	.25	.20	.05	.00	.00	.10	.05	.00	65.35
(2)	.01	.14	.79	4.64	2.53	.80	.47	.20	.20	.04	.03	.01	.00	.00	.02	.01	.00	9.87
1.1- 1.5	6	26	96	391	18	4	8	11	23	27	5	0	0	1	1	2	0	619
(1)	.30	1.30	4.80	19.55	.90	.20	.40	.55	1.15	1.35	.25	.00	.00	.05	.05	.10	.00	30.95
(2)	.05	.20	.72	2.95	.14	.03	.06	.08	.17	.20	.04	.00	.00	.01	.01	.02	.00	4.67
1.6- 2.0	3	12	9	23	1	0	0	0	0	3	4	0	0	0	0	1	0	56
(1)	.15	.60	.45	1.15	.05	.00	.00	.00	.00	.15	.20	.00	.00	.00	.00	.05	.00	2.80
(2)	.02	.09	.07	.17	.01	.00	.00	.00	.00	.02	.03	.00	.00	.00	.00	.01	.00	.42
2.1- 3.0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.05
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.01
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-34—{SSES 33' (10-m) 2001-2006 Summer JFD - continued}

(Page 2 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 15.10**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	10	58	211	1030	361	113	72	38	49	35	13	1	0	1	4	4	0	2000
(1)	.50	2.90	10.55	51.50	18.05	5.65	3.60	1.90	2.45	1.75	.65	.05	.00	.05	.20	.20	.00	100.00
(2)	.08	.44	1.59	7.78	2.73	.85	.54	.29	.37	.26	.10	.01	.00	.01	.03	.03	.00	15.10

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-34—{SSES 33' (10-m) 2001-2006 Summer JFD - continued}

(Page 1 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 5.10**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15
(2)	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
.5- 1.0	0	2	61	253	70	24	8	3	3	0	0	0	0	0	1	0	0	425
(1)	.00	.30	9.02	37.43	10.36	3.55	1.18	.44	.44	.00	.00	.00	.00	.00	.15	.00	.00	62.87
(2)	.00	.02	.46	1.91	.53	.18	.06	.02	.02	.00	.00	.00	.00	.00	.01	.00	.00	3.21
1.1- 1.5	0	3	26	194	7	0	0	2	2	1	0	0	0	0	0	1	0	236
(1)	.00	.44	3.85	28.70	1.04	.00	.00	.30	.30	.15	.00	.00	.00	.00	.00	.15	.00	34.91
(2)	.00	.02	.20	1.46	.05	.00	.00	.02	.02	.01	.00	.00	.00	.00	.00	.01	.00	1.78
1.6- 2.0	1	0	0	10	0	0	0	0	0	0	2	0	0	0	0	0	0	13
(1)	.15	.00	.00	1.48	.00	.00	.00	.00	.00	.00	.30	.00	.00	.00	.00	.00	.00	1.92
(2)	.01	.00	.00	.08	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.10
2.1- 3.0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15	.00	.00	.00	.00	.00	.00	.00	.15
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.01
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-34—{SSES 33' (10-m) 2001-2006 Summer JFD - continued}

(Page 2 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 5.10**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	1	5	87	458	77	24	8	5	5	2	2	0	0	0	1	1	0	676
(1)	.15	.74	12.87	67.75	11.39	3.55	1.18	.74	.74	.30	.30	.00	.00	.00	.15	.15	.00	100.00
(2)	.01	.04	.66	3.46	.58	.18	.06	.04	.04	.02	.02	.00	.00	.00	.01	.01	.00	5.10

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-34—{SSES 33' (10-m) 2001-2006 Summer JFD - continued}

(Page 1 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	3	6	20	7	5	6	1	0	0	0	0	0	0	0	0	48
(1)	.00	.00	.02	.05	.15	.05	.04	.05	.01	.00	.00	.00	.00	.00	.00	.00	.00	.36
(2)	.00	.00	.02	.05	.15	.05	.04	.05	.01	.00	.00	.00	.00	.00	.00	.00	.00	.36
.5- 1.0	32	124	476	1403	909	448	350	200	199	73	38	8	8	6	8	6	0	4288
(1)	.24	.94	3.59	10.59	6.86	3.38	2.64	1.51	1.50	.55	.29	.06	.06	.05	.06	.05	.00	32.37
(2)	.24	.94	3.59	10.59	6.86	3.38	2.64	1.51	1.50	.55	.29	.06	.06	.05	.06	.05	.00	32.37
1.1- 1.5	93	269	499	898	154	105	145	152	306	316	148	52	21	13	18	18	0	3207
(1)	.70	2.03	3.77	6.78	1.16	.79	1.09	1.15	2.31	2.39	1.12	.39	.16	.10	.14	.14	.00	24.21
(2)	.70	2.03	3.77	6.78	1.16	.79	1.09	1.15	2.31	2.39	1.12	.39	.16	.10	.14	.14	.00	24.21
1.6- 2.0	120	249	135	110	57	63	99	87	142	274	210	66	21	21	17	35	0	1706
(1)	.91	1.88	1.02	.83	.43	.48	.75	.66	1.07	2.07	1.59	.50	.16	.16	.13	.26	.00	12.88
(2)	.91	1.88	1.02	.83	.43	.48	.75	.66	1.07	2.07	1.59	.50	.16	.16	.13	.26	.00	12.88
2.1- 3.0	184	238	124	31	22	41	84	79	147	342	590	129	38	41	62	120	0	2272
(1)	1.39	1.80	.94	.23	.17	.31	.63	.60	1.11	2.58	4.45	.97	.29	.31	.47	.91	.00	17.15
(2)	1.39	1.80	.94	.23	.17	.31	.63	.60	1.11	2.58	4.45	.97	.29	.31	.47	.91	.00	17.15
3.1- 4.0	131	79	6	0	1	6	19	5	27	78	483	160	66	32	70	90	0	1253
(1)	.99	.60	.05	.00	.01	.05	.14	.04	.20	.59	3.65	1.21	.50	.24	.53	.68	.00	9.46
(2)	.99	.60	.05	.00	.01	.05	.14	.04	.20	.59	3.65	1.21	.50	.24	.53	.68	.00	9.46
4.1- 5.0	23	8	0	0	0	1	1	2	2	2	123	128	27	6	26	36	0	385
(1)	.17	.06	.00	.00	.00	.01	.01	.02	.02	.02	.93	.97	.20	.05	.20	.27	.00	2.91
(2)	.17	.06	.00	.00	.00	.01	.01	.02	.02	.02	.93	.97	.20	.05	.20	.27	.00	2.91
5.1- 6.0	9	2	0	0	0	0	0	0	0	0	19	36	1	0	6	7	0	80
(1)	.07	.02	.00	.00	.00	.00	.00	.00	.00	.00	.14	.27	.01	.00	.05	.05	.00	.60
(2)	.07	.02	.00	.00	.00	.00	.00	.00	.00	.00	.14	.27	.01	.00	.05	.05	.00	.60

Table 2.3-34—{SSES 33' (10-m) 2001-2006 Summer JFD - continued}

(Page 2 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	7
(1)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	593	969	1243	2448	1163	671	703	531	824	1085	1611	585	182	119	207	312	0	13246
(1)	4.48	7.32	9.38	18.48	8.78	5.07	5.31	4.01	6.22	8.19	12.16	4.42	1.37	.90	1.56	2.36	.00	100.00
(2)	4.48	7.32	9.38	18.48	8.78	5.07	5.31	4.01	6.22	8.19	12.16	4.42	1.37	.90	1.56	2.36	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-35 {SSES 33' (10-m) 2001-2006 Autumn JFD}

(Page 1 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 3.51**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	1	1	4	5	2	2	1	1	1	0	0	0	0	0	0	18
(1)	.00	.00	.22	.22	.89	1.11	.44	.44	.22	.22	.22	.00	.00	.00	.00	.00	.00	3.99
(2)	.00	.00	.01	.01	.03	.04	.02	.02	.01	.01	.01	.00	.00	.00	.00	.00	.00	.14
1.1- 1.5	0	5	4	4	7	12	8	5	6	4	6	7	1	0	1	2	0	72
(1)	.00	1.11	.89	.89	1.55	2.66	1.77	1.11	1.33	.89	1.33	1.55	.22	.00	.22	.44	.00	15.96
(2)	.00	.04	.03	.03	.05	.09	.06	.04	.05	.03	.05	.05	.01	.00	.01	.02	.00	.56
1.6- 2.0	2	3	8	4	4	2	3	7	11	12	11	5	0	0	0	0	0	72
(1)	.44	.67	1.77	.89	.89	.44	.67	1.55	2.44	2.66	2.44	1.11	.00	.00	.00	.00	.00	15.96
(2)	.02	.02	.06	.03	.03	.02	.02	.05	.09	.09	.09	.04	.00	.00	.00	.00	.00	.56
2.1- 3.0	3	10	9	1	1	0	8	11	18	26	46	8	1	0	5	2	0	149
(1)	.67	2.22	2.00	.22	.22	.00	1.77	2.44	3.99	5.76	10.20	1.77	.22	.00	1.11	.44	.00	33.04
(2)	.02	.08	.07	.01	.01	.00	.06	.09	.14	.20	.36	.06	.01	.00	.04	.02	.00	1.16
3.1- 4.0	9	5	6	0	0	0	3	13	8	12	35	9	2	2	0	4	0	108
(1)	2.00	1.11	1.33	.00	.00	.00	.67	2.88	1.77	2.66	7.76	2.00	.44	.44	.00	.89	.00	23.95
(2)	.07	.04	.05	.00	.00	.00	.02	.10	.06	.09	.27	.07	.02	.02	.00	.03	.00	.84
4.1- 5.0	2	0	0	0	0	0	0	0	4	4	15	6	0	0	0	0	0	31
(1)	.44	.00	.00	.00	.00	.00	.00	.00	.89	.89	3.33	1.33	.00	.00	.00	.00	.00	6.87
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.03	.03	.12	.05	.00	.00	.00	.00	.00	.24
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.22	.00	.00	.00	.00	.00	.00	.22
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.01

Table 2.3-35 {SSES 33' (10-m) 2001-2006 Autumn JFD}

(Page 2 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 3.51**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	16	23	28	10	16	19	24	38	48	59	115	35	4	2	6	8	0	451
(1)	3.55	5.10	6.21	2.22	3.55	4.21	5.32	8.43	10.64	13.08	25.50	7.76	.89	.44	1.33	1.77	.00	100.00
(2)	.12	.18	.22	.08	.12	.15	.19	.30	.37	.46	.89	.27	.03	.02	.05	.06	.00	3.51

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-35—{SSES 33' (10-m) 2001-2006 Autumn JFD - continued}

(Page 1 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 2.51**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	2	0	4	1	2	0	1	1	0	0	0	1	0	0	0	12
(1)	.00	.00	.62	.00	1.24	.31	.62	.00	.31	.31	.00	.00	.00	.31	.00	.00	.00	3.72
(2)	.00	.00	.02	.00	.03	.01	.02	.00	.01	.01	.00	.00	.00	.01	.00	.00	.00	.09
1.1- 1.5	3	0	4	7	4	3	2	1	4	7	7	0	0	0	0	0	0	42
(1)	.93	.00	1.24	2.17	1.24	.93	.62	.31	1.24	2.17	2.17	.00	.00	.00	.00	.00	.00	13.00
(2)	.02	.00	.03	.05	.03	.02	.02	.01	.03	.05	.05	.00	.00	.00	.00	.00	.00	.33
1.6- 2.0	3	3	2	2	0	0	1	4	3	6	9	4	0	0	0	0	0	37
(1)	.93	.93	.62	.62	.00	.00	.31	1.24	.93	1.86	2.79	1.24	.00	.00	.00	.00	.00	11.46
(2)	.02	.02	.02	.02	.00	.00	.01	.03	.02	.05	.07	.03	.00	.00	.00	.00	.00	.29
2.1- 3.0	1	8	6	1	0	0	6	1	8	10	36	3	1	1	4	3	0	89
(1)	.31	2.48	1.86	.31	.00	.00	1.86	.31	2.48	3.10	11.15	.93	.31	.31	1.24	.93	.00	27.55
(2)	.01	.06	.05	.01	.00	.00	.05	.01	.06	.08	.28	.02	.01	.01	.03	.02	.00	.69
3.1- 4.0	4	10	3	0	0	0	5	2	2	3	24	13	7	2	3	6	0	84
(1)	1.24	3.10	.93	.00	.00	.00	1.55	.62	.62	.93	7.43	4.02	2.17	.62	.93	1.86	.00	26.01
(2)	.03	.08	.02	.00	.00	.00	.04	.02	.02	.02	.19	.10	.05	.02	.02	.05	.00	.65
4.1- 5.0	0	0	0	0	0	0	0	1	4	1	15	11	4	3	0	2	0	41
(1)	.00	.00	.00	.00	.00	.00	.00	.31	1.24	.31	4.64	3.41	1.24	.93	.00	.62	.00	12.69
(2)	.00	.00	.00	.00	.00	.00	.00	.01	.03	.01	.12	.09	.03	.02	.00	.02	.00	.32
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	9	3	0	0	0	0	0	12
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.79	.93	.00	.00	.00	.00	.00	3.72
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.02	.00	.00	.00	.00	.00	.09

Table 2.3-35—{SSES 33' (10-m) 2001-2006 Autumn JFD - continued}

(Page 2 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 2.51**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	1	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.93	.31	.00	.00	.00	.31	.00	1.55
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.01	.00	.00	.00	.01	.00	.04
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.31	.00	.31
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.01
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	11	21	17	10	8	4	16	9	22	28	103	35	12	7	7	13	0	323
(1)	3.41	6.50	5.26	3.10	2.48	1.24	4.95	2.79	6.81	8.67	31.89	10.84	3.72	2.17	2.17	4.02	.00	100.00
(2)	.09	.16	.13	.08	.06	.03	.12	.07	.17	.22	.80	.27	.09	.05	.05	.10	.00	2.51

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-35—{SSES 33' (10-m) 2001-2006 Autumn JFD - continued}

(Page 1 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 3.84**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	1	1	2	3	2	1	2	0	0	0	0	0	0	0	0	12
(1)	.00	.00	.20	.20	.40	.61	.40	.20	.40	.00	.00	.00	.00	.00	.00	.00	.00	2.43
(2)	.00	.00	.01	.01	.02	.02	.02	.01	.02	.00	.00	.00	.00	.00	.00	.00	.00	.09
1.1- 1.5	1	1	4	6	4	4	3	5	3	7	7	1	3	1	0	1	0	51
(1)	.20	.20	.81	1.21	.81	.81	.61	1.01	.61	1.42	1.42	.20	.61	.20	.00	.20	.00	10.32
(2)	.01	.01	.03	.05	.03	.03	.02	.04	.02	.05	.05	.01	.02	.01	.00	.01	.00	.40
1.6- 2.0	0	9	3	6	0	4	2	5	4	8	16	6	3	1	0	0	0	67
(1)	.00	1.82	.61	1.21	.00	.81	.40	1.01	.81	1.62	3.24	1.21	.61	.20	.00	.00	.00	13.56
(2)	.00	.07	.02	.05	.00	.03	.02	.04	.03	.06	.12	.05	.02	.01	.00	.00	.00	.52
2.1- 3.0	3	20	13	1	0	1	5	5	13	12	47	13	2	4	1	2	0	142
(1)	.61	4.05	2.63	.20	.00	.20	1.01	1.01	2.63	2.43	9.51	2.63	.40	.81	.20	.40	.00	28.74
(2)	.02	.16	.10	.01	.00	.01	.04	.04	.10	.09	.37	.10	.02	.03	.01	.02	.00	1.10
3.1- 4.0	20	15	1	0	1	0	5	6	11	2	35	12	6	6	5	6	0	131
(1)	4.05	3.04	.20	.00	.20	.00	1.01	1.21	2.23	.40	7.09	2.43	1.21	1.21	1.01	1.21	.00	26.52
(2)	.16	.12	.01	.00	.01	.00	.04	.05	.09	.02	.27	.09	.05	.05	.04	.05	.00	1.02
4.1- 5.0	9	2	0	0	0	0	1	1	1	3	11	16	7	0	2	6	0	59
(1)	1.82	.40	.00	.00	.00	.00	.20	.20	.20	.61	2.23	3.24	1.42	.00	.40	1.21	.00	11.94
(2)	.07	.02	.00	.00	.00	.00	.01	.01	.01	.02	.09	.12	.05	.00	.02	.05	.00	.46
5.1- 6.0	2	0	0	0	0	0	0	0	0	0	7	9	1	0	0	1	0	20
(1)	.40	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.42	1.82	.20	.00	.00	.20	.00	4.05
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.07	.01	.00	.00	.01	.00	.16

Table 2.3-35—{SSES 33' (10-m) 2001-2006 Autumn JFD - continued}

(Page 2 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 3.84**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	4	4	0	0	1	2	0	11
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.81	.81	.00	.00	.20	.40	.00	2.23
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.03	.00	.00	.01	.02	.00	.09
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20	.00	.00	.00	.00	.00	.20
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.01
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	35	47	22	14	7	12	18	23	34	32	127	62	22	12	9	18	0	494
(1)	7.09	9.51	4.45	2.83	1.42	2.43	3.64	4.66	6.88	6.48	25.71	12.55	4.45	2.43	1.82	3.64	.00	100.00
(2)	.27	.37	.17	.11	.05	.09	.14	.18	.26	.25	.99	.48	.17	.09	.07	.14	.00	3.84

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-35—{SSES 33' (10-m) 2001-2006 Autumn JFD - continued}

(Page 1 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 35.66**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
(2)	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
.2- .4	0	0	0	2	3	2	1	1	0	0	0	0	0	0	0	0	0	9
(1)	.00	.00	.00	.04	.07	.04	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20
(2)	.00	.00	.00	.02	.02	.02	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
.5- 1.0	10	29	55	62	71	84	60	48	35	22	10	5	0	0	6	4	0	501
(1)	.22	.63	1.20	1.35	1.55	1.83	1.31	1.05	.76	.48	.22	.11	.00	.00	.13	.09	.00	10.92
(2)	.08	.23	.43	.48	.55	.65	.47	.37	.27	.17	.08	.04	.00	.00	.05	.03	.00	3.90
1.1- 1.5	20	82	76	48	43	33	50	44	58	66	50	28	7	10	9	5	0	629
(1)	.44	1.79	1.66	1.05	.94	.72	1.09	.96	1.26	1.44	1.09	.61	.15	.22	.20	.11	.00	13.72
(2)	.16	.64	.59	.37	.33	.26	.39	.34	.45	.51	.39	.22	.05	.08	.07	.04	.00	4.89
1.6- 2.0	40	89	76	23	21	18	49	41	56	69	66	40	17	15	8	12	0	640
(1)	.87	1.94	1.66	.50	.46	.39	1.07	.89	1.22	1.50	1.44	.87	.37	.33	.17	.26	.00	13.96
(2)	.31	.69	.59	.18	.16	.14	.38	.32	.44	.54	.51	.31	.13	.12	.06	.09	.00	4.98
2.1- 3.0	117	185	104	23	12	41	74	57	74	74	142	70	61	47	54	77	0	1212
(1)	2.55	4.03	2.27	.50	.26	.89	1.61	1.24	1.61	1.61	3.10	1.53	1.33	1.02	1.18	1.68	.00	26.43
(2)	.91	1.44	.81	.18	.09	.32	.58	.44	.58	.58	1.10	.54	.47	.37	.42	.60	.00	9.42
3.1- 4.0	96	69	11	7	1	5	39	14	22	40	95	62	43	50	100	85	0	739
(1)	2.09	1.50	.24	.15	.02	.11	.85	.31	.48	.87	2.07	1.35	.94	1.09	2.18	1.85	.00	16.11
(2)	.75	.54	.09	.05	.01	.04	.30	.11	.17	.31	.74	.48	.33	.39	.78	.66	.00	5.75
4.1- 5.0	40	7	0	1	0	0	14	13	13	7	69	56	49	44	81	60	0	454
(1)	.87	.15	.00	.02	.00	.00	.31	.28	.28	.15	1.50	1.22	1.07	.96	1.77	1.31	.00	9.90
(2)	.31	.05	.00	.01	.00	.00	.11	.10	.10	.05	.54	.44	.38	.34	.63	.47	.00	3.53
5.1- 6.0	6	0	1	1	0	0	7	9	5	1	28	51	19	17	42	32	0	219
(1)	.13	.00	.02	.02	.00	.00	.15	.20	.11	.02	.61	1.11	.41	.37	.92	.70	.00	4.78
(2)	.05	.00	.01	.01	.00	.00	.05	.07	.04	.01	.22	.40	.15	.13	.33	.25	.00	1.70

Table 2.3-35—{SSES 33' (10-m) 2001-2006 Autumn JFD - continued}

(Page 2 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 35.66**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	0	0	2	0	0	2	8	5	0	15	54	11	22	12	8	0	140
(1)	.02	.00	.00	.04	.00	.00	.04	.17	.11	.00	.33	1.18	.24	.48	.26	.17	.00	3.05
(2)	.01	.00	.00	.02	.00	.00	.02	.06	.04	.00	.12	.42	.09	.17	.09	.06	.00	1.09
8.1-10.0	0	0	0	0	0	0	0	0	0	0	2	26	9	3	2	0	0	42
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.57	.20	.07	.04	.00	.00	.92
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.20	.07	.02	.02	.00	.00	.33
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	330	461	323	170	151	183	296	235	268	279	477	392	216	208	314	283	0	4586
(1)	7.20	10.05	7.04	3.71	3.29	3.99	6.45	5.12	5.84	6.08	10.40	8.55	4.71	4.54	6.85	6.17	.00	100.00
(2)	2.57	3.58	2.51	1.32	1.17	1.42	2.30	1.83	2.08	2.17	3.71	3.05	1.68	1.62	2.44	2.20	.00	35.66

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-35—{SSES 33' (10-m) 2001-2006 Autumn JFD - continued}

(Page 1 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 31.66**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.00	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
(2)	.00	.00	.00	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.2- .4	0	0	6	12	15	13	14	9	2	0	0	0	1	0	0	0	0	72
(1)	.00	.00	.15	.29	.37	.32	.34	.22	.05	.00	.00	.00	.02	.00	.00	.00	.00	1.77
(2)	.00	.00	.05	.09	.12	.10	.11	.07	.02	.00	.00	.00	.01	.00	.00	.00	.00	.56
.5- 1.0	24	73	171	285	252	159	142	103	94	57	17	5	6	1	3	3	0	1395
(1)	.59	1.79	4.20	7.00	6.19	3.90	3.49	2.53	2.31	1.40	.42	.12	.15	.02	.07	.07	.00	34.26
(2)	.19	.57	1.33	2.22	1.96	1.24	1.10	.80	.73	.44	.13	.04	.05	.01	.02	.02	.00	10.85
1.1- 1.5	39	146	176	137	42	23	41	75	123	97	64	15	7	3	5	9	0	1002
(1)	.96	3.59	4.32	3.36	1.03	.56	1.01	1.84	3.02	2.38	1.57	.37	.17	.07	.12	.22	.00	24.61
(2)	.30	1.14	1.37	1.07	.33	.18	.32	.58	.96	.75	.50	.12	.05	.02	.04	.07	.00	7.79
1.6- 2.0	42	107	75	22	10	11	12	36	74	111	51	38	13	7	11	13	0	633
(1)	1.03	2.63	1.84	.54	.25	.27	.29	.88	1.82	2.73	1.25	.93	.32	.17	.27	.32	.00	15.55
(2)	.33	.83	.58	.17	.08	.09	.09	.28	.58	.86	.40	.30	.10	.05	.09	.10	.00	4.92
2.1- 3.0	44	120	51	7	3	10	17	27	54	87	72	21	20	13	20	33	0	599
(1)	1.08	2.95	1.25	.17	.07	.25	.42	.66	1.33	2.14	1.77	.52	.49	.32	.49	.81	.00	14.71
(2)	.34	.93	.40	.05	.02	.08	.13	.21	.42	.68	.56	.16	.16	.10	.16	.26	.00	4.66
3.1- 4.0	10	32	11	5	3	7	8	18	22	25	37	24	2	1	5	13	0	223
(1)	.25	.79	.27	.12	.07	.17	.20	.44	.54	.61	.91	.59	.05	.02	.12	.32	.00	5.48
(2)	.08	.25	.09	.04	.02	.05	.06	.14	.17	.19	.29	.19	.02	.01	.04	.10	.00	1.73
4.1- 5.0	1	8	4	2	0	1	9	12	14	10	11	4	1	0	2	4	0	83
(1)	.02	.20	.10	.05	.00	.02	.22	.29	.34	.25	.27	.10	.02	.00	.05	.10	.00	2.04
(2)	.01	.06	.03	.02	.00	.01	.07	.09	.11	.08	.09	.03	.01	.00	.02	.03	.00	.65
5.1- 6.0	0	1	5	3	0	5	4	3	9	2	1	5	0	0	0	0	0	38
(1)	.00	.02	.12	.07	.00	.12	.10	.07	.22	.05	.02	.12	.00	.00	.00	.00	.00	.93
(2)	.00	.01	.04	.02	.00	.04	.03	.02	.07	.02	.01	.04	.00	.00	.00	.00	.00	.30

Table 2.3-35—{SSES 33' (10-m) 2001-2006 Autumn JFD - continued}

(Page 2 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 31.66**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	3	0	2	0	2	4	6	1	0	2	3	0	0	0	0	0	23
(1)	.00	.07	.00	.05	.00	.05	.10	.15	.02	.00	.05	.07	.00	.00	.00	.00	.00	.56
(2)	.00	.02	.00	.02	.00	.02	.03	.05	.01	.00	.02	.02	.00	.00	.00	.00	.00	.18
8.1-10.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
(2)	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	160	491	499	477	326	231	251	289	393	389	255	115	50	25	46	75	0	4072
(1)	3.93	12.06	12.25	11.71	8.01	5.67	6.16	7.10	9.65	9.55	6.26	2.82	1.23	.61	1.13	1.84	.00	100.00
(2)	1.24	3.82	3.88	3.71	2.53	1.80	1.95	2.25	3.06	3.02	1.98	.89	.39	.19	.36	.58	.00	31.66

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-35—{SSES 33' (10-m) 2001-2006 Autumn JFD - continued}

(Page 1 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 13.29**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06
(2)	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
.2- .4	1	0	2	9	12	5	2	3	0	0	2	0	0	0	0	0	0	36
(1)	.06	.00	.12	.53	.70	.29	.12	.18	.00	.00	.12	.00	.00	.00	.00	.00	.00	2.11
(2)	.01	.00	.02	.07	.09	.04	.02	.02	.00	.00	.02	.00	.00	.00	.00	.00	.00	.28
.5- 1.0	2	21	128	448	206	73	50	39	33	11	3	3	1	0	2	4	0	1024
(1)	.12	1.23	7.49	26.21	12.05	4.27	2.93	2.28	1.93	.64	.18	.18	.06	.00	.12	.23	.00	59.92
(2)	.02	.16	1.00	3.48	1.60	.57	.39	.30	.26	.09	.02	.02	.01	.00	.02	.03	.00	7.96
1.1- 1.5	7	28	92	292	37	4	5	13	32	21	6	1	0	1	1	0	0	540
(1)	.41	1.64	5.38	17.09	2.17	.23	.29	.76	1.87	1.23	.35	.06	.00	.06	.06	.00	.00	31.60
(2)	.05	.22	.72	2.27	.29	.03	.04	.10	.25	.16	.05	.01	.00	.01	.01	.00	.00	4.20
1.6- 2.0	1	17	17	39	0	0	0	3	5	10	2	1	0	0	0	1	0	96
(1)	.06	.99	.99	2.28	.00	.00	.00	.18	.29	.59	.12	.06	.00	.00	.00	.06	.00	5.62
(2)	.01	.13	.13	.30	.00	.00	.00	.02	.04	.08	.02	.01	.00	.00	.00	.01	.00	.75
2.1- 3.0	0	3	0	0	0	0	0	0	0	1	5	2	0	0	0	0	0	11
(1)	.00	.18	.00	.00	.00	.00	.00	.00	.00	.06	.29	.12	.00	.00	.00	.00	.00	.64
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.01	.04	.02	.00	.00	.00	.00	.00	.09
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00	.06
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.01
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-35—{SSES 33' (10-m) 2001-2006 Autumn JFD - continued}

(Page 2 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 13.29**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	11	70	239	788	255	82	57	58	70	43	18	7	1	1	3	6	0	1709
(1)	.64	4.10	13.98	46.11	14.92	4.80	3.34	3.39	4.10	2.52	1.05	.41	.06	.06	.18	.35	.00	100.00
(2)	.09	.54	1.86	6.13	1.98	.64	.44	.45	.54	.33	.14	.05	.01	.01	.02	.05	.00	13.29

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIO

Table 2.3-35—{SSES 33' (10-m) 2001-2006 Autumn JFD - continued}

(Page 1 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 9.54**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
.2- .4	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.08	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16
(2)	.01	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	5	10	114	420	134	41	22	8	8	2	3	0	0	0	1	2	0	770
(1)	.41	.81	9.29	34.23	10.92	3.34	1.79	.65	.65	.16	.24	.00	.00	.00	.08	.16	.00	62.75
(2)	.04	.08	.89	3.27	1.04	.32	.17	.06	.06	.02	.02	.00	.00	.00	.01	.02	.00	5.99
1.1- 1.5	0	2	57	335	14	1	1	1	3	2	1	0	0	0	0	0	0	417
(1)	.00	.16	4.65	27.30	1.14	.08	.08	.08	.24	.16	.08	.00	.00	.00	.00	.00	.00	33.99
(2)	.00	.02	.44	2.60	.11	.01	.01	.01	.02	.02	.01	.00	.00	.00	.00	.00	.00	3.24
1.6- 2.0	1	1	7	27	1	0	0	0	0	0	0	0	0	0	0	0	0	37
(1)	.08	.08	.57	2.20	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.02
(2)	.01	.01	.05	.21	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.29
2.1- 3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-35—{SSES 33' (10-m) 2001-2006 Autumn JFD - continued}

(Page 2 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 9.54**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	8	13	178	782	149	43	23	9	11	4	4	0	0	0	1	2	0	1227
(1)	.65	1.06	14.51	63.73	12.14	3.50	1.87	.73	.90	.33	.33	.00	.00	.00	.08	.16	.00	100.00
(2)	.06	.10	1.38	6.08	1.16	.33	.18	.07	.09	.03	.03	.00	.00	.00	.01	.02	.00	9.54

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-35—{SSES 33' (10-m) 2001-2006 Autumn JFD - continued}

(Page 1 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	1	1	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	6
(1)	.01	.01	.00	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
(2)	.01	.01	.00	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
.2- .4	2	0	8	23	30	21	17	13	2	0	2	0	1	0	0	0	0	119
(1)	.02	.00	.06	.18	.23	.16	.13	.10	.02	.00	.02	.00	.01	.00	.00	.00	.00	.93
(2)	.02	.00	.06	.18	.23	.16	.13	.10	.02	.00	.02	.00	.01	.00	.00	.00	.00	.93
.5- 1.0	41	133	472	1217	673	366	280	201	174	94	34	13	7	2	12	13	0	3732
(1)	.32	1.03	3.67	9.46	5.23	2.85	2.18	1.56	1.35	.73	.26	.10	.05	.02	.09	.10	.00	29.02
(2)	.32	1.03	3.67	9.46	5.23	2.85	2.18	1.56	1.35	.73	.26	.10	.05	.02	.09	.10	.00	29.02
1.1- 1.5	70	264	413	829	151	80	110	144	229	204	141	52	18	15	16	17	0	2753
(1)	.54	2.05	3.21	6.45	1.17	.62	.86	1.12	1.78	1.59	1.10	.40	.14	.12	.12	.13	.00	21.40
(2)	.54	2.05	3.21	6.45	1.17	.62	.86	1.12	1.78	1.59	1.10	.40	.14	.12	.12	.13	.00	21.40
1.6- 2.0	89	229	188	123	36	35	67	96	153	216	155	94	33	23	19	26	0	1582
(1)	.69	1.78	1.46	.96	.28	.27	.52	.75	1.19	1.68	1.21	.73	.26	.18	.15	.20	.00	12.30
(2)	.69	1.78	1.46	.96	.28	.27	.52	.75	1.19	1.68	1.21	.73	.26	.18	.15	.20	.00	12.30
2.1- 3.0	168	346	183	33	16	52	110	101	167	210	348	117	85	65	84	117	0	2202
(1)	1.31	2.69	1.42	.26	.12	.40	.86	.79	1.30	1.63	2.71	.91	.66	.51	.65	.91	.00	17.12
(2)	1.31	2.69	1.42	.26	.12	.40	.86	.79	1.30	1.63	2.71	.91	.66	.51	.65	.91	.00	17.12
3.1- 4.0	139	131	32	12	5	12	60	53	65	82	226	120	60	61	113	115	0	1286
(1)	1.08	1.02	.25	.09	.04	.09	.47	.41	.51	.64	1.76	.93	.47	.47	.88	.89	.00	10.00
(2)	1.08	1.02	.25	.09	.04	.09	.47	.41	.51	.64	1.76	.93	.47	.47	.88	.89	.00	10.00
4.1- 5.0	52	17	4	3	0	1	24	27	36	25	121	93	61	47	85	72	0	668
(1)	.40	.13	.03	.02	.00	.01	.19	.21	.28	.19	.94	.72	.47	.37	.66	.56	.00	5.19
(2)	.40	.13	.03	.02	.00	.01	.19	.21	.28	.19	.94	.72	.47	.37	.66	.56	.00	5.19
5.1- 6.0	8	1	6	4	0	5	11	12	14	3	46	68	20	17	42	33	0	290
(1)	.06	.01	.05	.03	.00	.04	.09	.09	.11	.02	.36	.53	.16	.13	.33	.26	.00	2.25
(2)	.06	.01	.05	.03	.00	.04	.09	.09	.11	.02	.36	.53	.16	.13	.33	.26	.00	2.25

Table 2.3-35—{SSES 33' (10-m) 2001-2006 Autumn JFD - continued}

(Page 2 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	3	0	4	0	2	6	14	6	0	24	62	11	22	13	11	0	179
(1)	.01	.02	.00	.03	.00	.02	.05	.11	.05	.00	.19	.48	.09	.17	.10	.09	.00	1.39
(2)	.01	.02	.00	.03	.00	.02	.05	.11	.05	.00	.19	.48	.09	.17	.10	.09	.00	1.39
8.1-10.0	0	1	0	0	0	0	0	0	0	0	2	27	9	3	2	1	0	45
(1)	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.02	.21	.07	.02	.02	.01	.00	.35
(2)	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.02	.21	.07	.02	.02	.01	.00	.35
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	571	1126	1306	2251	912	574	685	661	846	834	1099	646	305	255	386	405	0	12862
(1)	4.44	8.75	10.15	17.50	7.09	4.46	5.33	5.14	6.58	6.48	8.54	5.02	2.37	1.98	3.00	3.15	.00	100.00
(2)	4.44	8.75	10.15	17.50	7.09	4.46	5.33	5.14	6.58	6.48	8.54	5.02	2.37	1.98	3.00	3.15	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-36 {SSES 197' (60-m) 2001-2006 Winter JFD}

(Page 1 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS A — CLASS FREQUENCY (PERCENT) = 2.08

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.37	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.37
(2)	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
1.1- 1.5	0	0	1	2	1	0	1	1	2	1	1	2	0	0	0	0	0	12
(1)	.00	.00	.37	.74	.37	.00	.37	.37	.74	.37	.37	.74	.00	.00	.00	.00	.00	4.44
(2)	.00	.00	.01	.02	.01	.00	.01	.01	.02	.01	.01	.02	.00	.00	.00	.00	.00	.09
1.6- 2.0	0	0	2	0	1	0	1	0	2	13	6	0	0	0	0	0	0	25
(1)	.00	.00	.74	.00	.37	.00	.37	.00	.74	4.81	2.22	.00	.00	.00	.00	.00	.00	9.26
(2)	.00	.00	.02	.00	.01	.00	.01	.00	.02	.10	.05	.00	.00	.00	.00	.00	.00	.19
2.1- 3.0	0	1	3	0	0	2	1	2	4	15	18	2	0	0	0	0	0	48
(1)	.00	.37	1.11	.00	.00	.74	.37	.74	1.48	5.56	6.67	.74	.00	.00	.00	.00	.00	17.78
(2)	.00	.01	.02	.00	.00	.02	.01	.02	.03	.12	.14	.02	.00	.00	.00	.00	.00	.37
3.1- 4.0	0	0	4	1	0	0	0	1	0	8	23	3	3	0	0	0	0	43
(1)	.00	.00	1.48	.37	.00	.00	.00	.37	.00	2.96	8.52	1.11	1.11	.00	.00	.00	.00	15.93
(2)	.00	.00	.03	.01	.00	.00	.00	.01	.00	.06	.18	.02	.02	.00	.00	.00	.00	.33
4.1- 5.0	0	0	1	0	0	0	3	2	0	4	15	5	0	0	0	0	0	30
(1)	.00	.00	.37	.00	.00	.00	1.11	.74	.00	1.48	5.56	1.85	.00	.00	.00	.00	.00	11.11
(2)	.00	.00	.01	.00	.00	.00	.02	.02	.00	.03	.12	.04	.00	.00	.00	.00	.00	.23
5.1- 6.0	0	1	0	0	0	0	0	1	1	3	27	9	4	1	0	0	0	47
(1)	.00	.37	.00	.00	.00	.00	.00	.37	.37	1.11	10.00	3.33	1.48	.37	.00	.00	.00	17.41
(2)	.00	.01	.00	.00	.00	.00	.00	.01	.01	.02	.21	.07	.03	.01	.00	.00	.00	.36

Table 2.3-36 {SSES 197' (60-m) 2001-2006 Winter JFD}

(Page 2 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 2.08**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	2	0	0	0	0	0	0	3	4	19	24	2	0	0	0	0	54
(1)	.00	.74	.00	.00	.00	.00	.00	.00	1.11	1.48	7.04	8.89	.74	.00	.00	.00	.00	20.00
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.02	.03	.15	.18	.02	.00	.00	.00	.00	.42
8.1-10.0	0	0	0	0	0	0	0	0	0	1	0	9	0	0	0	0	0	10
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.37	.00	3.33	.00	.00	.00	.00	.00	3.70
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.07	.00	.00	.00	.00	.00	.08
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	4	11	3	2	3	6	7	12	49	109	54	9	1	0	0	0	270
(1)	.00	1.48	4.07	1.11	.74	1.11	2.22	2.59	4.44	18.15	40.37	20.00	3.33	.37	.00	.00	.00	100.00
(2)	.00	.03	.08	.02	.02	.02	.05	.05	.09	.38	.84	.42	.07	.01	.00	.00	.00	2.08

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIO

Table 2.3-36—{SSES 197' (60-m) 2001-2006 Winter JFD - continued}

(Page 1 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 1.82**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	1	0	5
(1)	.00	.00	.00	.00	.42	.42	.00	.00	.42	.42	.00	.00	.00	.00	.00	.42	.00	2.12
(2)	.00	.00	.00	.00	.01	.01	.00	.00	.01	.01	.00	.00	.00	.00	.00	.01	.00	.04
1.1- 1.5	0	0	1	1	1	0	1	1	1	1	1	0	0	0	0	0	0	8
(1)	.00	.00	.42	.42	.42	.00	.42	.42	.42	.42	.42	.00	.00	.00	.00	.00	.00	3.39
(2)	.00	.00	.01	.01	.01	.00	.01	.01	.01	.01	.01	.00	.00	.00	.00	.00	.00	.06
1.6- 2.0	0	0	2	0	0	1	1	1	1	4	4	0	0	0	0	0	0	14
(1)	.00	.00	.85	.00	.00	.42	.42	.42	.42	1.69	1.69	.00	.00	.00	.00	.00	.00	5.93
(2)	.00	.00	.02	.00	.00	.01	.01	.01	.01	.03	.03	.00	.00	.00	.00	.00	.00	.11
2.1- 3.0	0	1	4	0	1	0	1	0	0	5	13	4	0	1	1	1	0	32
(1)	.00	.42	1.69	.00	.42	.00	.42	.00	.00	2.12	5.51	1.69	.00	.42	.42	.42	.00	13.56
(2)	.00	.01	.03	.00	.01	.00	.01	.00	.00	.04	.10	.03	.00	.01	.01	.01	.00	.25
3.1- 4.0	1	2	4	0	1	0	0	1	1	1	8	2	1	0	1	0	0	23
(1)	.42	.85	1.69	.00	.42	.00	.00	.42	.42	.42	3.39	.85	.42	.00	.42	.00	.00	9.75
(2)	.01	.02	.03	.00	.01	.00	.00	.01	.01	.01	.06	.02	.01	.00	.01	.00	.00	.18
4.1- 5.0	4	1	5	0	0	0	0	0	0	0	16	6	3	0	2	0	0	37
(1)	1.69	.42	2.12	.00	.00	.00	.00	.00	.00	.00	6.78	2.54	1.27	.00	.85	.00	.00	15.68
(2)	.03	.01	.04	.00	.00	.00	.00	.00	.00	.00	.12	.05	.02	.00	.02	.00	.00	.28
5.1- 6.0	2	11	3	0	0	0	0	0	1	3	15	9	5	1	0	0	0	50
(1)	.85	4.66	1.27	.00	.00	.00	.00	.00	.42	1.27	6.36	3.81	2.12	.42	.00	.00	.00	21.19
(2)	.02	.08	.02	.00	.00	.00	.00	.00	.01	.02	.12	.07	.04	.01	.00	.00	.00	.39

Table 2.3-36—{SSES 197' (60-m) 2001-2006 Winter JFD - continued}

(Page 2 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 1.82**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	2	1	0	0	0	0	0	0	3	18	34	1	0	0	0	0	59
(1)	.00	.85	.42	.00	.00	.00	.00	.00	.00	1.27	7.63	14.41	.42	.00	.00	.00	.00	25.00
(2)	.00	.02	.01	.00	.00	.00	.00	.00	.00	.02	.14	.26	.01	.00	.00	.00	.00	.45
8.1-10.0	0	0	0	0	0	0	0	0	0	2	1	4	1	0	0	0	0	8
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.85	.42	1.69	.42	.00	.00	.00	.00	3.39
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.01	.03	.01	.00	.00	.00	.00	.06
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	7	17	20	1	4	2	3	3	5	20	76	59	11	2	4	2	0	236
(1)	2.97	7.20	8.47	.42	1.69	.85	1.27	1.27	2.12	8.47	32.20	25.00	4.66	.85	1.69	.85	.00	100.00
(2)	.05	.13	.15	.01	.03	.02	.02	.02	.04	.15	.59	.45	.08	.02	.03	.02	.00	1.82

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-36—{SSES 197' (60-m) 2001-2006 Winter JFD - continued}

(Page 1 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS C — CLASS FREQUENCY (PERCENT) = 2.85

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	1	3	0	1	2	3	1	1	0	0	0	0	0	0	0	0	12
(1)	.00	.27	.81	.00	.27	.54	.81	.27	.27	.00	.00	.00	.00	.00	.00	.00	.00	3.24
(2)	.00	.01	.02	.00	.01	.02	.02	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.09
1.1- 1.5	0	0	2	1	4	2	0	1	3	6	3	0	1	0	0	0	0	23
(1)	.00	.00	.54	.27	1.08	.54	.00	.27	.81	1.62	.81	.00	.27	.00	.00	.00	.00	6.22
(2)	.00	.00	.02	.01	.03	.02	.00	.01	.02	.05	.02	.00	.01	.00	.00	.00	.00	.18
1.6- 2.0	0	2	3	3	3	0	0	0	2	2	4	1	1	0	0	0	0	21
(1)	.00	.54	.81	.81	.81	.00	.00	.00	.54	.54	1.08	.27	.27	.00	.00	.00	.00	5.68
(2)	.00	.02	.02	.02	.02	.00	.00	.00	.02	.02	.03	.01	.01	.00	.00	.00	.00	.16
2.1- 3.0	1	5	3	3	1	0	2	0	4	9	18	3	0	2	0	2	0	53
(1)	.27	1.35	.81	.81	.27	.00	.54	.00	1.08	2.43	4.86	.81	.00	.54	.00	.54	.00	14.32
(2)	.01	.04	.02	.02	.01	.00	.02	.00	.03	.07	.14	.02	.00	.02	.00	.02	.00	.41
3.1- 4.0	1	11	3	2	0	0	1	0	2	0	11	7	2	0	0	0	0	40
(1)	.27	2.97	.81	.54	.00	.00	.27	.00	.54	.00	2.97	1.89	.54	.00	.00	.00	.00	10.81
(2)	.01	.08	.02	.02	.00	.00	.01	.00	.02	.00	.08	.05	.02	.00	.00	.00	.00	.31
4.1- 5.0	4	7	1	0	0	0	0	0	2	4	15	10	1	2	2	6	0	54
(1)	1.08	1.89	.27	.00	.00	.00	.00	.00	.54	1.08	4.05	2.70	.27	.54	.54	1.62	.00	14.59
(2)	.03	.05	.01	.00	.00	.00	.00	.00	.02	.03	.12	.08	.01	.02	.02	.05	.00	.42
5.1- 6.0	6	2	1	0	0	0	2	0	1	2	10	19	4	1	3	7	0	58
(1)	1.62	.54	.27	.00	.00	.00	.54	.00	.27	.54	2.70	5.14	1.08	.27	.81	1.89	.00	15.68
(2)	.05	.02	.01	.00	.00	.00	.02	.00	.01	.02	.08	.15	.03	.01	.02	.05	.00	.45

Table 2.3-36—{SSES 197' (60-m) 2001-2006 Winter JFD - continued}

(Page 2 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 2.85**

	WIND DIRECTION FROM																	
SPEED m/s	**N**	**NNE**	**NE**	**ENE**	**E**	**ESE**	**SE**	**SSE**	**S**	**SSW**	**SW**	**WSW**	**W**	**WNW**	**NW**	**NNW**	**VRBL**	**TOTAL**
6.1- 8.0	1	0	3	0	0	0	0	0	1	3	22	43	12	2	1	3	0	91
(1)	.27	.00	.81	.00	.00	.00	.00	.00	.27	.81	5.95	11.62	3.24	.54	.27	.81	.00	24.59
(2)	.01	.00	.02	.00	.00	.00	.00	.00	.01	.02	.17	.33	.09	.02	.01	.02	.00	.70
8.1-10.0	0	0	0	0	0	0	0	0	0	3	0	10	4	0	0	0	0	17
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.81	.00	2.70	1.08	.00	.00	.00	.00	4.59
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.08	.03	.00	.00	.00	.00	.13
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.27	.00	.00	.00	.00	.00	.27
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.01
ALL SPEEDS	13	28	19	9	9	4	8	2	16	29	83	94	25	7	6	18	0	370
(1)	3.51	7.57	5.14	2.43	2.43	1.08	2.16	.54	4.32	7.84	22.43	25.41	6.76	1.89	1.62	4.86	.00	100.00
(2)	.10	.22	.15	.07	.07	.03	.06	.02	.12	.22	.64	.72	.19	.05	.05	.14	.00	2.85

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-36—{SSES 197' (60-m) 2001-2006 Winter JFD - continued}

(Page 1 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS D — CLASS FREQUENCY (PERCENT) = 47.66

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	1	0	0	1	0	0	1	0	1	0	0	0	0	4
(1)	.00	.00	.00	.00	.02	.00	.00	.02	.00	.00	.02	.00	.02	.00	.00	.00	.00	.06
(2)	.00	.00	.00	.00	.01	.00	.00	.01	.00	.00	.01	.00	.01	.00	.00	.00	.00	.03
.5- 1.0	6	14	24	23	12	21	26	16	16	16	15	2	3	1	3	3	0	201
(1)	.10	.23	.39	.37	.19	.34	.42	.26	.26	.26	.24	.03	.05	.02	.05	.05	.00	3.25
(2)	.05	.11	.18	.18	.09	.16	.20	.12	.12	.12	.12	.02	.02	.01	.02	.02	.00	1.55
1.1- 1.5	11	28	29	30	14	8	22	34	32	42	31	7	3	3	1	5	0	300
(1)	.18	.45	.47	.48	.23	.13	.36	.55	.52	.68	.50	.11	.05	.05	.02	.08	.00	4.85
(2)	.08	.22	.22	.23	.11	.06	.17	.26	.25	.32	.24	.05	.02	.02	.01	.04	.00	2.31
1.6- 2.0	13	29	25	16	17	12	9	13	25	38	69	24	9	7	3	5	0	314
(1)	.21	.47	.40	.26	.27	.19	.15	.21	.40	.61	1.12	.39	.15	.11	.05	.08	.00	5.07
(2)	.10	.22	.19	.12	.13	.09	.07	.10	.19	.29	.53	.18	.07	.05	.02	.04	.00	2.42
2.1- 3.0	57	67	71	43	25	18	48	24	19	55	119	63	35	26	22	20	0	712
(1)	.92	1.08	1.15	.69	.40	.29	.78	.39	.31	.89	1.92	1.02	.57	.42	.36	.32	.00	11.51
(2)	.44	.52	.55	.33	.19	.14	.37	.18	.15	.42	.92	.49	.27	.20	.17	.15	.00	5.48
3.1- 4.0	87	69	72	19	12	17	29	37	30	34	80	70	68	57	81	75	0	837
(1)	1.41	1.12	1.16	.31	.19	.27	.47	.60	.48	.55	1.29	1.13	1.10	.92	1.31	1.21	.00	13.53
(2)	.67	.53	.55	.15	.09	.13	.22	.28	.23	.26	.62	.54	.52	.44	.62	.58	.00	6.45
4.1- 5.0	100	66	50	8	7	8	18	26	21	42	82	110	99	71	164	172	0	1044
(1)	1.62	1.07	.81	.13	.11	.13	.29	.42	.34	.68	1.33	1.78	1.60	1.15	2.65	2.78	.00	16.87
(2)	.77	.51	.39	.06	.05	.06	.14	.20	.16	.32	.63	.85	.76	.55	1.26	1.32	.00	8.04
5.1- 6.0	51	56	23	5	6	7	9	9	8	43	99	227	133	93	151	154	0	1074
(1)	.82	.90	.37	.08	.10	.11	.15	.15	.13	.69	1.60	3.67	2.15	1.50	2.44	2.49	.00	17.36
(2)	.39	.43	.18	.04	.05	.05	.07	.07	.06	.33	.76	1.75	1.02	.72	1.16	1.19	.00	8.27

Table 2.3-36—{SSES 197' (60-m) 2001-2006 Winter JFD - continued}

(Page 2 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 47.66**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	21	29	12	0	2	1	5	8	10	32	87	511	150	111	172	147	0	1298
(1)	.34	.47	.19	.00	.03	.02	.08	.13	.16	.52	1.41	8.26	2.42	1.79	2.78	2.38	.00	20.98
(2)	.16	.22	.09	.00	.02	.01	.04	.06	.08	.25	.67	3.94	1.16	.85	1.32	1.13	.00	10.00
8.1-10.0	2	0	1	0	0	1	1	0	0	10	11	173	65	15	22	25	0	326
(1)	.03	.00	.02	.00	.00	.02	.02	.00	.00	.16	.18	2.80	1.05	.24	.36	.40	.00	5.27
(2)	.02	.00	.01	.00	.00	.01	.01	.00	.00	.08	.08	1.33	.50	.12	.17	.19	.00	2.51
10.1-40.3	0	0	0	0	0	2	1	0	2	5	1	50	15	2	0	0	0	78
(1)	.00	.00	.00	.00	.00	.03	.02	.00	.03	.08	.02	.81	.24	.03	.00	.00	.00	1.26
(2)	.00	.00	.00	.00	.00	.02	.01	.00	.02	.04	.01	.39	.12	.02	.00	.00	.00	.60
ALL SPEEDS	348	358	307	144	96	95	168	168	163	317	595	1237	581	386	619	606	0	6188
(1)	5.62	5.79	4.96	2.33	1.55	1.54	2.71	2.71	2.63	5.12	9.62	19.99	9.39	6.24	10.00	9.79	.00	100.00
(2)	2.68	2.76	2.36	1.11	.74	.73	1.29	1.29	1.26	2.44	4.58	9.53	4.47	2.97	4.77	4.67	.00	47.66

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-36—{SSES 197' (60-m) 2001-2006 Winter JFD - continued}

(Page 1 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS E — CLASS FREQUENCY (PERCENT) = 28.55

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.03	.03	.00	.03	.03	.00	.00	.00	.00	.00	.00	.00	.00	.11
(2)	.00	.00	.00	.00	.01	.01	.00	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.03
.5- 1.0	12	22	47	33	26	40	34	36	37	24	14	8	6	1	2	9	0	351
(1)	.32	.59	1.27	.89	.70	1.08	.92	.97	1.00	.65	.38	.22	.16	.03	.05	.24	.00	9.47
(2)	.09	.17	.36	.25	.20	.31	.26	.28	.28	.18	.11	.06	.05	.01	.02	.07	.00	2.70
1.1- 1.5	18	49	74	28	24	18	36	57	46	45	48	14	8	2	5	8	0	480
(1)	.49	1.32	2.00	.76	.65	.49	.97	1.54	1.24	1.21	1.29	.38	.22	.05	.13	.22	.00	12.95
(2)	.14	.38	.57	.22	.18	.14	.28	.44	.35	.35	.37	.11	.06	.02	.04	.06	.00	3.70
1.6- 2.0	32	63	34	22	12	10	19	10	39	61	46	18	11	4	3	9	0	393
(1)	.86	1.70	.92	.59	.32	.27	.51	.27	1.05	1.65	1.24	.49	.30	.11	.08	.24	.00	10.60
(2)	.25	.49	.26	.17	.09	.08	.15	.08	.30	.47	.35	.14	.08	.03	.02	.07	.00	3.03
2.1- 3.0	59	90	67	30	24	27	22	27	31	69	116	54	31	31	17	14	0	709
(1)	1.59	2.43	1.81	.81	.65	.73	.59	.73	.84	1.86	3.13	1.46	.84	.84	.46	.38	.00	19.13
(2)	.45	.69	.52	.23	.18	.21	.17	.21	.24	.53	.89	.42	.24	.24	.13	.11	.00	5.46
3.1- 4.0	47	57	49	12	15	15	14	26	28	53	117	74	25	14	33	24	0	603
(1)	1.27	1.54	1.32	.32	.40	.40	.38	.70	.76	1.43	3.16	2.00	.67	.38	.89	.65	.00	16.27
(2)	.36	.44	.38	.09	.12	.12	.11	.20	.22	.41	.90	.57	.19	.11	.25	.18	.00	4.64
4.1- 5.0	23	26	33	8	2	1	6	15	11	54	138	106	10	9	34	24	0	500
(1)	.62	.70	.89	.22	.05	.03	.16	.40	.30	1.46	3.72	2.86	.27	.24	.92	.65	.00	13.49
(2)	.18	.20	.25	.06	.02	.01	.05	.12	.08	.42	1.06	.82	.08	.07	.26	.18	.00	3.85
5.1- 6.0	9	23	28	4	1	4	3	8	8	33	59	137	6	0	18	9	0	350
(1)	.24	.62	.76	.11	.03	.11	.08	.22	.22	.89	1.59	3.70	.16	.00	.49	.24	.00	9.44
(2)	.07	.18	.22	.03	.01	.03	.02	.06	.06	.25	.45	1.06	.05	.00	.14	.07	.00	2.70

Table 2.3-36—{SSES 197' (60-m) 2001-2006 Winter JFD - continued}

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SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 28.55**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	16	7	0	3	4	3	3	6	33	22	129	11	1	10	2	0	251
(1)	.03	.43	.19	.00	.08	.11	.08	.08	.16	.89	.59	3.48	.30	.03	.27	.05	.00	6.77
(2)	.01	.12	.05	.00	.02	.03	.02	.02	.05	.25	.17	.99	.08	.01	.08	.02	.00	1.93
8.1-10.0	0	2	0	0	0	4	6	6	4	9	5	8	4	0	0	0	0	48
(1)	.00	.05	.00	.00	.00	.11	.16	.16	.11	.24	.13	.22	.11	.00	.00	.00	.00	1.29
(2)	.00	.02	.00	.00	.00	.03	.05	.05	.03	.07	.04	.06	.03	.00	.00	.00	.00	.37
10.1-40.3	0	0	0	0	1	1	1	1	4	5	0	4	1	0	0	0	0	18
(1)	.00	.00	.00	.00	.03	.03	.03	.03	.11	.13	.00	.11	.03	.00	.00	.00	.00	.49
(2)	.00	.00	.00	.00	.01	.01	.01	.01	.03	.04	.00	.03	.01	.00	.00	.00	.00	.14
ALL SPEEDS	201	348	339	137	109	125	144	190	215	386	565	552	113	62	122	99	0	3707
(1)	5.42	9.39	9.14	3.70	2.94	3.37	3.88	5.13	5.80	10.41	15.24	14.89	3.05	1.67	3.29	2.67	.00	100.00
(2)	1.55	2.68	2.61	1.06	.84	.96	1.11	1.46	1.66	2.97	4.35	4.25	.87	.48	.94	.76	.00	28.55

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIO

Table 2.3-36—{SSES 197' (60-m) 2001-2006 Winter JFD - continued}

(Page 1 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 9.91**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.08	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16
(2)	.00	.00	.01	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	5	18	36	33	32	24	17	11	6	11	1	1	2	0	2	1	0	200
(1)	.39	1.40	2.80	2.56	2.49	1.86	1.32	.85	.47	.85	.08	.08	.16	.00	.16	.08	.00	15.54
(2)	.04	.14	.28	.25	.25	.18	.13	.08	.05	.08	.01	.01	.02	.00	.02	.01	.00	1.54
1.1- 1.5	14	61	72	29	24	14	11	20	24	13	6	3	1	1	1	1	0	295
(1)	1.09	4.74	5.59	2.25	1.86	1.09	.85	1.55	1.86	1.01	.47	.23	.08	.08	.08	.08	.00	22.92
(2)	.11	.47	.55	.22	.18	.11	.08	.15	.18	.10	.05	.02	.01	.01	.01	.01	.00	2.27
1.6- 2.0	25	105	37	9	5	3	4	10	26	20	13	3	0	2	1	4	0	267
(1)	1.94	8.16	2.87	.70	.39	.23	.31	.78	2.02	1.55	1.01	.23	.00	.16	.08	.31	.00	20.75
(2)	.19	.81	.28	.07	.04	.02	.03	.08	.20	.15	.10	.02	.00	.02	.01	.03	.00	2.06
2.1- 3.0	43	80	31	1	3	2	4	2	23	34	49	6	1	4	4	5	0	292
(1)	3.34	6.22	2.41	.08	.23	.16	.31	.16	1.79	2.64	3.81	.47	.08	.31	.31	.39	.00	22.69
(2)	.33	.62	.24	.01	.02	.02	.03	.02	.18	.26	.38	.05	.01	.03	.03	.04	.00	2.25
3.1- 4.0	3	15	8	0	0	0	2	1	4	17	47	19	1	1	6	1	0	125
(1)	.23	1.17	.62	.00	.00	.00	.16	.08	.31	1.32	3.65	1.48	.08	.08	.47	.08	.00	9.71
(2)	.02	.12	.06	.00	.00	.00	.02	.01	.03	.13	.36	.15	.01	.01	.05	.01	.00	.96
4.1- 5.0	0	0	0	0	0	0	0	0	3	7	13	38	0	0	1	1	0	63
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.23	.54	1.01	2.95	.00	.00	.08	.08	.00	4.90
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.10	.29	.00	.00	.01	.01	.00	.49
5.1- 6.0	0	0	0	0	0	0	0	0	1	1	5	23	0	0	0	1	0	31
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.08	.08	.39	1.79	.00	.00	.00	.08	.00	2.41
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.04	.18	.00	.00	.00	.01	.00	.24

Table 2.3-36—{SSES 197' (60-m) 2001-2006 Winter JFD - continued}

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SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 9.91**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	1	1	1	8	0	0	0	0	0	11
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.08	.08	.08	.62	.00	.00	.00	.00	.00	.85
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.01	.06	.00	.00	.00	.00	.00	.08
8.1-10.0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.08
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.01
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	90	279	185	72	64	44	38	44	88	105	135	101	5	8	15	14	0	1287
(1)	6.99	21.68	14.37	5.59	4.97	3.42	2.95	3.42	6.84	8.16	10.49	7.85	.39	.62	1.17	1.09	.00	100.00
(2)	.69	2.15	1.42	.55	.49	.34	.29	.34	.68	.81	1.04	.78	.04	.06	.12	.11	.00	9.91

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-36—{SSES 197' (60-m) 2001-2006 Winter JFD - continued}

(Page 1 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 7.13**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	5	6	21	33	18	15	9	8	5	1	0	0	0	0	0	0	0	121
(1)	.54	.65	2.27	3.56	1.94	1.62	.97	.86	.54	.11	.00	.00	.00	.00	.00	.00	.00	13.07
(2)	.04	.05	.16	.25	.14	.12	.07	.06	.04	.01	.00	.00	.00	.00	.00	.00	.00	.93
1.1- 1.5	5	50	63	28	21	24	12	15	12	6	5	1	2	1	1	2	0	248
(1)	.54	5.40	6.80	3.02	2.27	2.59	1.30	1.62	1.30	.65	.54	.11	.22	.11	.11	.22	.00	26.78
(2)	.04	.39	.49	.22	.16	.18	.09	.12	.09	.05	.04	.01	.02	.01	.01	.02	.00	1.91
1.6- 2.0	37	88	46	9	5	2	4	10	16	16	7	1	0	0	1	1	0	243
(1)	4.00	9.50	4.97	.97	.54	.22	.43	1.08	1.73	1.73	.76	.11	.00	.00	.11	.11	.00	26.24
(2)	.28	.68	.35	.07	.04	.02	.03	.08	.12	.12	.05	.01	.00	.00	.01	.01	.00	1.87
2.1- 3.0	45	69	19	3	3	3	1	2	17	26	22	6	0	0	1	2	0	219
(1)	4.86	7.45	2.05	.32	.32	.32	.11	.22	1.84	2.81	2.38	.65	.00	.00	.11	.22	.00	23.65
(2)	.35	.53	.15	.02	.02	.02	.01	.02	.13	.20	.17	.05	.00	.00	.01	.02	.00	1.69
3.1- 4.0	6	5	0	0	0	1	0	0	3	11	20	5	1	0	3	0	0	55
(1)	.65	.54	.00	.00	.00	.11	.00	.00	.32	1.19	2.16	.54	.11	.00	.32	.00	.00	5.94
(2)	.05	.04	.00	.00	.00	.01	.00	.00	.02	.08	.15	.04	.01	.00	.02	.00	.00	.42
4.1- 5.0	0	0	0	0	0	0	0	0	2	8	1	13	0	0	0	0	0	24
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.22	.86	.11	1.40	.00	.00	.00	.00	.00	2.59
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.06	.01	.10	.00	.00	.00	.00	.00	.18
5.1- 6.0	0	0	0	0	0	0	0	0	1	3	0	4	0	0	0	0	0	8
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.11	.32	.00	.43	.00	.00	.00	.00	.00	.86
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.00	.03	.00	.00	.00	.00	.00	.06

Table 2.3-36—{SSES 197' (60-m) 2001-2006 Winter JFD - continued}

(Page 2 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 7.13**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	1	1	6	0	0	0	0	0	8
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.11	.65	.00	.00	.00	.00	.00	.86
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.05	.00	.00	.00	.00	.00	.06
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	98	218	149	73	47	45	26	35	56	72	56	36	3	1	6	5	0	926
(1)	10.58	23.54	16.09	7.88	5.08	4.86	2.81	3.78	6.05	7.78	6.05	3.89	.32	.11	.65	.54	.00	100.00
(2)	.75	1.68	1.15	.56	.36	.35	.20	.27	.43	.55	.43	.28	.02	.01	.05	.04	.00	7.13

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-36—{SSES 197' (60-m) 2001-2006 Winter JFD - continued}

(Page 1 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS ALL — CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	0	2	2	0	2	1	0	1	0	1	0	0	0	0	10
(1)	.00	.00	.01	.00	.02	.02	.00	.02	.01	.00	.01	.00	.01	.00	.00	.00	.00	.08
(2)	.00	.00	.01	.00	.02	.02	.00	.02	.01	.00	.01	.00	.01	.00	.00	.00	.00	.08
.5- 1.0	28	61	131	122	90	104	89	72	66	53	30	11	11	2	7	14	0	891
(1)	.22	.47	1.01	.94	.69	.80	.69	.55	.51	.41	.23	.08	.08	.02	.05	.11	.00	6.86
(2)	.22	.47	1.01	.94	.69	.80	.69	.55	.51	.41	.23	.08	.08	.02	.05	.11	.00	6.86
1.1- 1.5	48	188	242	119	89	66	83	129	120	114	95	27	15	7	8	16	0	1366
(1)	.37	1.45	1.86	.92	.69	.51	.64	.99	.92	.88	.73	.21	.12	.05	.06	.12	.00	10.52
(2)	.37	1.45	1.86	.92	.69	.51	.64	.99	.92	.88	.73	.21	.12	.05	.06	.12	.00	10.52
1.6- 2.0	107	287	149	59	43	28	38	44	111	154	149	47	21	13	8	19	0	1277
(1)	.82	2.21	1.15	.45	.33	.22	.29	.34	.85	1.19	1.15	.36	.16	.10	.06	.15	.00	9.84
(2)	.82	2.21	1.15	.45	.33	.22	.29	.34	.85	1.19	1.15	.36	.16	.10	.06	.15	.00	9.84
2.1- 3.0	205	313	198	80	57	52	79	57	98	213	355	138	67	64	45	44	0	2065
(1)	1.58	2.41	1.52	.62	.44	.40	.61	.44	.75	1.64	2.73	1.06	.52	.49	.35	.34	.00	15.90
(2)	1.58	2.41	1.52	.62	.44	.40	.61	.44	.75	1.64	2.73	1.06	.52	.49	.35	.34	.00	15.90
3.1- 4.0	145	159	140	34	28	33	46	66	68	124	306	180	101	72	124	100	0	1726
(1)	1.12	1.22	1.08	.26	.22	.25	.35	.51	.52	.96	2.36	1.39	.78	.55	.96	.77	.00	13.29
(2)	1.12	1.22	1.08	.26	.22	.25	.35	.51	.52	.96	2.36	1.39	.78	.55	.96	.77	.00	13.29
4.1- 5.0	131	100	90	16	9	9	27	43	39	119	280	288	113	82	203	203	0	1752
(1)	1.01	.77	.69	.12	.07	.07	.21	.33	.30	.92	2.16	2.22	.87	.63	1.56	1.56	.00	13.49
(2)	1.01	.77	.69	.12	.07	.07	.21	.33	.30	.92	2.16	2.22	.87	.63	1.56	1.56	.00	13.49
5.1- 6.0	68	93	55	9	7	11	14	18	21	88	215	428	152	96	172	171	0	1618
(1)	.52	.72	.42	.07	.05	.08	.11	.14	.16	.68	1.66	3.30	1.17	.74	1.32	1.32	.00	12.46
(2)	.52	.72	.42	.07	.05	.08	.11	.14	.16	.68	1.66	3.30	1.17	.74	1.32	1.32	.00	12.46

Table 2.3-36—{SSES 197' (60-m) 2001-2006 Winter JFD - continued}

(Page 2 of 2)

SSES WINTER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	23	49	23	0	5	5	8	11	21	77	170	755	176	114	183	152	0	1772
(1)	.18	.38	.18	.00	.04	.04	.06	.08	.16	.59	1.31	5.81	1.36	.88	1.41	1.17	.00	13.65
(2)	.18	.38	.18	.00	.04	.04	.06	.08	.16	.59	1.31	5.81	1.36	.88	1.41	1.17	.00	13.65
8.1-10.0	2	2	1	0	0	5	7	6	4	26	17	204	74	15	22	25	0	410
(1)	.02	.02	.01	.00	.00	.04	.05	.05	.03	.20	.13	1.57	.57	.12	.17	.19	.00	3.16
(2)	.02	.02	.01	.00	.00	.04	.05	.05	.03	.20	.13	1.57	.57	.12	.17	.19	.00	3.16
10.1-40.3	0	0	0	0	1	3	2	1	6	10	1	55	16	2	0	0	0	97
(1)	.00	.00	.00	.00	.01	.02	.02	.01	.05	.08	.01	.42	.12	.02	.00	.00	.00	.75
(2)	.00	.00	.00	.00	.01	.02	.02	.01	.05	.08	.01	.42	.12	.02	.00	.00	.00	.75
ALL SPEEDS	757	1252	1030	439	331	318	393	449	555	978	1619	2133	747	467	772	744	0	12984
(1)	5.83	9.64	7.93	3.38	2.55	2.45	3.03	3.46	4.27	7.53	12.47	16.43	5.75	3.60	5.95	5.73	.00	100.00
(2)	5.83	9.64	7.93	3.38	2.55	2.45	3.03	3.46	4.27	7.53	12.47	16.43	5.75	3.60	5.95	5.73	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIO

Table 2.3-37 {SSES 197' (60-m) 2001-2006 Spring JFD}

(Page 1 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 6.97**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	1	0	1	2	0	0	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.11	.00	.11	.22	.00	.00	.00	.00	.00	.00	.00	.00	.44
(2)	.00	.00	.00	.00	.00	.01	.00	.01	.02	.00	.00	.00	.00	.00	.00	.00	.00	.03
1.1- 1.5	0	0	1	6	1	4	3	0	2	4	7	2	1	0	0	0	0	31
(1)	.00	.00	.11	.67	.11	.44	.33	.00	.22	.44	.78	.22	.11	.00	.00	.00	.00	3.44
(2)	.00	.00	.01	.05	.01	.03	.02	.00	.02	.03	.05	.02	.01	.00	.00	.00	.00	.24
1.6- 2.0	0	2	6	6	1	4	3	3	6	6	5	3	1	1	1	0	0	48
(1)	.00	.22	.67	.67	.11	.44	.33	.33	.67	.67	.55	.33	.11	.11	.11	.00	.00	5.33
(2)	.00	.02	.05	.05	.01	.03	.02	.02	.05	.05	.04	.02	.01	.01	.01	.00	.00	.37
2.1- 3.0	1	5	13	5	8	7	5	7	11	30	38	12	0	0	1	3	0	146
(1)	.11	.55	1.44	.55	.89	.78	.55	.78	1.22	3.33	4.22	1.33	.00	.00	.11	.33	.00	16.20
(2)	.01	.04	.10	.04	.06	.05	.04	.05	.09	.23	.29	.09	.00	.00	.01	.02	.00	1.13
3.1- 4.0	2	15	11	2	2	4	5	6	13	25	44	22	3	4	1	1	0	160
(1)	.22	1.66	1.22	.22	.22	.44	.55	.67	1.44	2.77	4.88	2.44	.33	.44	.11	.11	.00	17.76
(2)	.02	.12	.09	.02	.02	.03	.04	.05	.10	.19	.34	.17	.02	.03	.01	.01	.00	1.24
4.1- 5.0	12	24	7	1	1	1	8	5	8	19	35	20	2	4	2	3	0	152
(1)	1.33	2.66	.78	.11	.11	.11	.89	.55	.89	2.11	3.88	2.22	.22	.44	.22	.33	.00	16.87
(2)	.09	.19	.05	.01	.01	.01	.06	.04	.06	.15	.27	.15	.02	.03	.02	.02	.00	1.18
5.1- 6.0	7	22	3	2	0	1	13	5	11	24	41	23	6	2	3	3	0	166
(1)	.78	2.44	.33	.22	.00	.11	1.44	.55	1.22	2.66	4.55	2.55	.67	.22	.33	.33	.00	18.42
(2)	.05	.17	.02	.02	.00	.01	.10	.04	.09	.19	.32	.18	.05	.02	.02	.02	.00	1.28

Table 2.3-37 {SSES 197' (60-m) 2001-2006 Spring JFD}

(Page 2 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS A — CLASS FREQUENCY (PERCENT) = 6.97

	WIND DIRECTION FROM																	
SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	9	9	2	0	0	0	4	4	12	30	42	44	3	0	2	3	0	164
(1)	1.00	1.00	.22	.00	.00	.00	.44	.44	1.33	3.33	4.66	4.88	.33	.00	.22	.33	.00	18.20
(2)	.07	.07	.02	.00	.00	.00	.03	.03	.09	.23	.32	.34	.02	.00	.02	.02	.00	1.27
8.1-10.0	4	1	0	0	0	1	0	1	1	5	5	6	0	0	1	0	0	25
(1)	.44	.11	.00	.00	.00	.11	.00	.11	.11	.55	.55	.67	.00	.00	.11	.00	.00	2.77
(2)	.03	.01	.00	.00	.00	.01	.00	.01	.01	.04	.04	.05	.00	.00	.01	.00	.00	.19
10.1-40.3	0	0	0	0	0	0	0	0	1	0	1	3	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.11	.00	.11	.33	.00	.00	.00	.00	.00	.55
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.01	.02	.00	.00	.00	.00	.00	.04
ALL SPEEDS	35	78	43	22	13	23	41	32	67	143	218	135	16	11	11	13	0	901
(1)	3.88	8.66	4.77	2.44	1.44	2.55	4.55	3.55	7.44	15.87	24.20	14.98	1.78	1.22	1.22	1.44	.00	100.00
(2)	.27	.60	.33	.17	.10	.18	.32	.25	.52	1.11	1.69	1.04	.12	.09	.09	.10	.00	6.97

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIO

Table 2.3-37—{SSES 197' (60-m) 2001-2006 Spring JFD - continued}

(Page 1 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.61**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	2	0	2	0	1	0	0	0	0	0	0	0	0	0	0	5
(1)	.00	.00	.43	.00	.43	.00	.21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.07
(2)	.00	.00	.02	.00	.02	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
1.1- 1.5	0	1	1	0	2	3	1	1	4	4	2	0	0	0	0	0	0	19
(1)	.00	.21	.21	.00	.43	.64	.21	.21	.86	.86	.43	.00	.00	.00	.00	.00	.00	4.08
(2)	.00	.01	.01	.00	.02	.02	.01	.01	.03	.03	.02	.00	.00	.00	.00	.00	.00	.15
1.6- 2.0	0	3	8	4	1	3	0	1	2	3	2	0	1	0	0	0	0	28
(1)	.00	.64	1.72	.86	.21	.64	.00	.21	.43	.64	.43	.00	.21	.00	.00	.00	.00	6.01
(2)	.00	.02	.06	.03	.01	.02	.00	.01	.02	.02	.02	.00	.01	.00	.00	.00	.00	.22
2.1- 3.0	4	2	5	0	2	2	3	5	1	10	5	3	1	1	1	0	0	45
(1)	.86	.43	1.07	.00	.43	.43	.64	1.07	.21	2.15	1.07	.64	.21	.21	.21	.00	.00	9.66
(2)	.03	.02	.04	.00	.02	.02	.02	.04	.01	.08	.04	.02	.01	.01	.01	.00	.00	.35
3.1- 4.0	2	10	6	1	4	2	3	4	3	4	10	9	1	1	2	2	0	64
(1)	.43	2.15	1.29	.21	.86	.43	.64	.86	.64	.86	2.15	1.93	.21	.21	.43	.43	.00	13.73
(2)	.02	.08	.05	.01	.03	.02	.02	.03	.02	.03	.08	.07	.01	.01	.02	.02	.00	.50
4.1- 5.0	4	10	5	1	3	2	3	3	4	8	19	11	2	7	3	5	0	90
(1)	.86	2.15	1.07	.21	.64	.43	.64	.64	.86	1.72	4.08	2.36	.43	1.50	.64	1.07	.00	19.31
(2)	.03	.08	.04	.01	.02	.02	.02	.02	.03	.06	.15	.09	.02	.05	.02	.04	.00	.70
5.1- 6.0	9	4	4	1	2	0	4	2	4	6	15	9	2	6	7	9	0	84
(1)	1.93	.86	.86	.21	.43	.00	.86	.43	.86	1.29	3.22	1.93	.43	1.29	1.50	1.93	.00	18.03
(2)	.07	.03	.03	.01	.02	.00	.03	.02	.03	.05	.12	.07	.02	.05	.05	.07	.00	.65

Table 2.3-37—{SSES 197' (60-m) 2001-2006 Spring JFD - continued}

(Page 2 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.61**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	9	6	1	0	2	1	3	1	4	1	21	35	8	0	7	8	0	107
(1)	1.93	1.29	.21	.00	.43	.21	.64	.21	.86	.21	4.51	7.51	1.72	.00	1.50	1.72	.00	22.96
(2)	.07	.05	.01	.00	.02	.01	.02	.01	.03	.01	.16	.27	.06	.00	.05	.06	.00	.83
8.1-10.0	3	2	0	0	0	0	0	0	1	1	1	8	0	0	2	0	0	18
(1)	.64	.43	.00	.00	.00	.00	.00	.00	.21	.21	.21	1.72	.00	.00	.43	.00	.00	3.86
(2)	.02	.02	.00	.00	.00	.00	.00	.00	.01	.01	.01	.06	.00	.00	.02	.00	.00	.14
10.1-40.3	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.07	.21	.00	.00	.00	.00	.00	1.29
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.01	.00	.00	.00	.00	.00	.05
ALL SPEEDS	31	38	32	7	18	13	18	17	23	37	80	76	15	15	22	24	0	466
(1)	6.65	8.15	6.87	1.50	3.86	2.79	3.86	3.65	4.94	7.94	17.17	16.31	3.22	3.22	4.72	5.15	.00	100.00
(2)	.24	.29	.25	.05	.14	.10	.14	.13	.18	.29	.62	.59	.12	.12	.17	.19	.00	3.61

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIO

Table 2.3-37—{SSES 197' (60-m) 2001-2006 Spring JFD - continued}

(Page 1 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS C — CLASS FREQUENCY (PERCENT) = 4.87

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	1	0	4	1	0	0	1	2	1	0	0	1	0	0	0	0	11
(1)	.00	.16	.00	.64	.16	.00	.00	.16	.32	.16	.00	.00	.16	.00	.00	.00	.00	1.75
(2)	.00	.01	.00	.03	.01	.00	.00	.01	.02	.01	.00	.00	.01	.00	.00	.00	.00	.09
1.1- 1.5	0	2	1	4	2	0	1	1	1	5	1	0	0	0	0	1	0	19
(1)	.00	.32	.16	.64	.32	.00	.16	.16	.16	.79	.16	.00	.00	.00	.00	.16	.00	3.02
(2)	.00	.02	.01	.03	.02	.00	.01	.01	.01	.04	.01	.00	.00	.00	.00	.01	.00	.15
1.6- 2.0	3	3	2	2	4	1	4	0	1	6	0	0	0	0	0	0	0	26
(1)	.48	.48	.32	.32	.64	.16	.64	.00	.16	.95	.00	.00	.00	.00	.00	.00	.00	4.13
(2)	.02	.02	.02	.02	.03	.01	.03	.00	.01	.05	.00	.00	.00	.00	.00	.00	.00	.20
2.1- 3.0	2	6	12	4	1	4	2	1	5	13	13	10	3	0	0	0	0	76
(1)	.32	.95	1.91	.64	.16	.64	.32	.16	.79	2.07	2.07	1.59	.48	.00	.00	.00	.00	12.08
(2)	.02	.05	.09	.03	.01	.03	.02	.01	.04	.10	.10	.08	.02	.00	.00	.00	.00	.59
3.1- 4.0	9	15	11	1	3	2	2	3	5	9	16	15	4	1	3	1	0	100
(1)	1.43	2.38	1.75	.16	.48	.32	.32	.48	.79	1.43	2.54	2.38	.64	.16	.48	.16	.00	15.90
(2)	.07	.12	.09	.01	.02	.02	.02	.02	.04	.07	.12	.12	.03	.01	.02	.01	.00	.77
4.1- 5.0	15	15	3	2	2	3	8	2	1	6	25	21	9	4	9	7	0	132
(1)	2.38	2.38	.48	.32	.32	.48	1.27	.32	.16	.95	3.97	3.34	1.43	.64	1.43	1.11	.00	20.99
(2)	.12	.12	.02	.02	.02	.02	.06	.02	.01	.05	.19	.16	.07	.03	.07	.05	.00	1.02
5.1- 6.0	9	10	1	4	1	1	5	3	7	7	10	20	6	4	6	12	0	106
(1)	1.43	1.59	.16	.64	.16	.16	.79	.48	1.11	1.11	1.59	3.18	.95	.64	.95	1.91	.00	16.85
(2)	.07	.08	.01	.03	.01	.01	.04	.02	.05	.05	.08	.15	.05	.03	.05	.09	.00	.82

Table 2.3-37—{SSES 197' (60-m) 2001-2006 Spring JFD - continued}

(Page 2 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 4.87**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	15	5	0	0	0	3	1	3	8	6	11	32	13	5	9	5	0	116
(1)	2.38	.79	.00	.00	.00	.48	.16	.48	1.27	.95	1.75	5.09	2.07	.79	1.43	.79	.00	18.44
(2)	.12	.04	.00	.00	.00	.02	.01	.02	.06	.05	.09	.25	.10	.04	.07	.04	.00	.90
8.1-10.0	1	1	0	0	0	0	1	0	0	1	5	19	4	0	0	3	0	35
(1)	.16	.16	.00	.00	.00	.00	.16	.00	.00	.16	.79	3.02	.64	.00	.00	.48	.00	5.56
(2)	.01	.01	.00	.00	.00	.00	.01	.00	.00	.01	.04	.15	.03	.00	.00	.02	.00	.27
10.1-40.3	0	0	0	0	0	0	1	0	0	0	1	6	0	0	0	0	0	8
(1)	.00	.00	.00	.00	.00	.00	.16	.00	.00	.00	.16	.95	.00	.00	.00	.00	.00	1.27
(2)	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.01	.05	.00	.00	.00	.00	.00	.06
ALL SPEEDS	54	58	30	21	14	14	25	14	30	54	82	123	40	14	27	29	0	629
(1)	8.59	9.22	4.77	3.34	2.23	2.23	3.97	2.23	4.77	8.59	13.04	19.55	6.36	2.23	4.29	4.61	.00	100.00
(2)	.42	.45	.23	.16	.11	.11	.19	.11	.23	.42	.63	.95	.31	.11	.21	.22	.00	4.87

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-37—{SSES 197' (60-m) 2001-2006 Spring JFD - continued}
(Page 1 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS D — CLASS FREQUENCY (PERCENT) = 42.30

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.02	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.04
(2)	.00	.00	.00	.01	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	5	14	14	16	19	17	18	13	7	4	3	3	3	4	1	2	0	143
(1)	.09	.26	.26	.29	.35	.31	.33	.24	.13	.07	.05	.05	.05	.07	.02	.04	.00	2.62
(2)	.04	.11	.11	.12	.15	.13	.14	.10	.05	.03	.02	.02	.02	.03	.01	.02	.00	1.11
1.1- 1.5	11	28	42	24	12	14	15	18	17	25	22	9	0	2	3	9	0	251
(1)	.20	.51	.77	.44	.22	.26	.27	.33	.31	.46	.40	.16	.00	.04	.05	.16	.00	4.59
(2)	.09	.22	.32	.19	.09	.11	.12	.14	.13	.19	.17	.07	.00	.02	.02	.07	.00	1.94
1.6- 2.0	10	27	37	20	15	19	20	17	13	31	56	15	3	3	5	4	0	295
(1)	.18	.49	.68	.37	.27	.35	.37	.31	.24	.57	1.02	.27	.05	.05	.09	.07	.00	5.40
(2)	.08	.21	.29	.15	.12	.15	.15	.13	.10	.24	.43	.12	.02	.02	.04	.03	.00	2.28
2.1- 3.0	44	82	90	53	37	41	38	36	39	54	96	64	33	31	35	28	0	801
(1)	.80	1.50	1.65	.97	.68	.75	.70	.66	.71	.99	1.76	1.17	.60	.57	.64	.51	.00	14.65
(2)	.34	.63	.70	.41	.29	.32	.29	.28	.30	.42	.74	.50	.26	.24	.27	.22	.00	6.20
3.1- 4.0	89	92	96	33	36	30	44	42	29	29	83	65	51	65	69	70	0	923
(1)	1.63	1.68	1.76	.60	.66	.55	.80	.77	.53	.53	1.52	1.19	.93	1.19	1.26	1.28	.00	16.88
(2)	.69	.71	.74	.26	.28	.23	.34	.32	.22	.22	.64	.50	.39	.50	.53	.54	.00	7.14
4.1- 5.0	114	115	69	34	25	42	50	38	34	24	66	90	69	87	108	110	0	1075
(1)	2.09	2.10	1.26	.62	.46	.77	.91	.70	.62	.44	1.21	1.65	1.26	1.59	1.98	2.01	.00	19.66
(2)	.88	.89	.53	.26	.19	.32	.39	.29	.26	.19	.51	.70	.53	.67	.84	.85	.00	8.32
5.1- 6.0	95	97	45	11	10	26	38	31	31	26	56	90	67	71	104	92	0	890
(1)	1.74	1.77	.82	.20	.18	.48	.70	.57	.57	.48	1.02	1.65	1.23	1.30	1.90	1.68	.00	16.28
(2)	.74	.75	.35	.09	.08	.20	.29	.24	.24	.20	.43	.70	.52	.55	.80	.71	.00	6.89

Table 2.3-37—{SSES 197' (60-m) 2001-2006 Spring JFD - continued}

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SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 42.30**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	42	67	28	7	13	25	11	21	36	26	43	144	129	92	93	52	0	829
(1)	.77	1.23	.51	.13	.24	.46	.20	.38	.66	.48	.79	2.63	2.36	1.68	1.70	.95	.00	15.16
(2)	.32	.52	.22	.05	.10	.19	.09	.16	.28	.20	.33	1.11	1.00	.71	.72	.40	.00	6.41
8.1-10.0	1	7	2	1	3	5	2	4	12	9	14	63	62	17	8	6	0	216
(1)	.02	.13	.04	.02	.05	.09	.04	.07	.22	.16	.26	1.15	1.13	.31	.15	.11	.00	3.95
(2)	.01	.05	.02	.01	.02	.04	.02	.03	.09	.07	.11	.49	.48	.13	.06	.05	.00	1.67
10.1-40.3	1	2	1	0	1	1	0	0	0	3	2	14	16	1	0	0	0	42
(1)	.02	.04	.02	.00	.02	.02	.00	.00	.00	.05	.04	.26	.29	.02	.00	.00	.00	.77
(2)	.01	.02	.01	.00	.01	.01	.00	.00	.00	.02	.02	.11	.12	.01	.00	.00	.00	.32
ALL SPEEDS	412	531	424	200	171	220	236	220	219	231	441	557	433	373	426	373	0	5467
(1)	7.54	9.71	7.76	3.66	3.13	4.02	4.32	4.02	4.01	4.23	8.07	10.19	7.92	6.82	7.79	6.82	.00	100.00
(2)	3.19	4.11	3.28	1.55	1.32	1.70	1.83	1.70	1.69	1.79	3.41	4.31	3.35	2.89	3.30	2.89	.00	42.30

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIO

Table 2.3-37—{SSES 197' (60-m) 2001-2006 Spring JFD - continued}

(Page 1 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS E — CLASS FREQUENCY (PERCENT) = 24.90

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
(2)	.00	.00	.00	.00	.00	.00	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	21	31	60	44	38	20	27	27	24	27	19	10	6	1	3	6	0	364
(1)	.65	.96	1.86	1.37	1.18	.62	.84	.84	.75	.84	.59	.31	.19	.03	.09	.19	.00	11.31
(2)	.16	.24	.46	.34	.29	.15	.21	.21	.19	.21	.15	.08	.05	.01	.02	.05	.00	2.82
1.1- 1.5	21	64	73	25	20	14	23	21	28	32	38	16	8	5	5	8	0	401
(1)	.65	1.99	2.27	.78	.62	.44	.71	.65	.87	.99	1.18	.50	.25	.16	.16	.25	.00	12.46
(2)	.16	.50	.56	.19	.15	.11	.18	.16	.22	.25	.29	.12	.06	.04	.04	.06	.00	3.10
1.6- 2.0	35	70	37	26	12	13	14	19	19	25	32	27	11	6	7	6	0	359
(1)	1.09	2.18	1.15	.81	.37	.40	.44	.59	.59	.78	.99	.84	.34	.19	.22	.19	.00	11.16
(2)	.27	.54	.29	.20	.09	.10	.11	.15	.15	.19	.25	.21	.09	.05	.05	.05	.00	2.78
2.1- 3.0	71	111	78	48	24	26	25	41	37	48	74	44	32	27	12	17	0	715
(1)	2.21	3.45	2.42	1.49	.75	.81	.78	1.27	1.15	1.49	2.30	1.37	.99	.84	.37	.53	.00	22.22
(2)	.55	.86	.60	.37	.19	.20	.19	.32	.29	.37	.57	.34	.25	.21	.09	.13	.00	5.53
3.1- 4.0	40	75	69	23	17	14	22	28	35	60	56	59	25	7	16	22	0	568
(1)	1.24	2.33	2.14	.71	.53	.44	.68	.87	1.09	1.86	1.74	1.83	.78	.22	.50	.68	.00	17.65
(2)	.31	.58	.53	.18	.13	.11	.17	.22	.27	.46	.43	.46	.19	.05	.12	.17	.00	4.39
4.1- 5.0	23	49	41	16	14	11	14	18	23	41	38	52	11	6	16	22	0	395
(1)	.71	1.52	1.27	.50	.44	.34	.44	.56	.71	1.27	1.18	1.62	.34	.19	.50	.68	.00	12.27
(2)	.18	.38	.32	.12	.11	.09	.11	.14	.18	.32	.29	.40	.09	.05	.12	.17	.00	3.06
5.1- 6.0	6	39	19	5	2	4	2	8	20	34	27	44	5	4	10	5	0	234
(1)	.19	1.21	.59	.16	.06	.12	.06	.25	.62	1.06	.84	1.37	.16	.12	.31	.16	.00	7.27
(2)	.05	.30	.15	.04	.02	.03	.02	.06	.15	.26	.21	.34	.04	.03	.08	.04	.00	1.81

Table 2.3-37—{SSES 197' (60-m) 2001-2006 Spring JFD - continued}

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SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 24.90**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	4	17	11	1	6	7	4	1	26	28	14	29	5	4	1	1	0	159
(1)	.12	.53	.34	.03	.19	.22	.12	.03	.81	.87	.44	.90	.16	.12	.03	.03	.00	4.94
(2)	.03	.13	.09	.01	.05	.05	.03	.01	.20	.22	.11	.22	.04	.03	.01	.01	.00	1.23
8.1-10.0	0	0	1	0	0	0	1	0	1	4	4	3	0	0	0	0	0	14
(1)	.00	.00	.03	.00	.00	.00	.03	.00	.03	.12	.12	.09	.00	.00	.00	.00	.00	.44
(2)	.00	.00	.01	.00	.00	.00	.01	.00	.01	.03	.03	.02	.00	.00	.00	.00	.00	.11
10.1-40.3	0	0	0	0	0	0	0	0	4	0	2	0	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.12	.00	.06	.00	.00	.00	.00	.00	.00	.19
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.02	.00	.00	.00	.00	.00	.00	.05
ALL SPEEDS	221	456	389	188	133	109	134	164	217	299	304	284	103	60	70	87	0	3218
(1)	6.87	14.17	12.09	5.84	4.13	3.39	4.16	5.10	6.74	9.29	9.45	8.83	3.20	1.86	2.18	2.70	.00	100.00
(2)	1.71	3.53	3.01	1.45	1.03	.84	1.04	1.27	1.68	2.31	2.35	2.20	.80	.46	.54	.67	.00	24.90

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-37—{SSES 197' (60-m) 2001-2006 Spring JFD - continued}

(Page 1 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 9.32**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	3
(1)	.08	.00	.00	.08	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.25
(2)	.01	.00	.00	.01	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	9	17	40	31	27	19	28	10	14	8	4	1	4	5	1	2	0	220
(1)	.75	1.41	3.32	2.57	2.24	1.58	2.32	.83	1.16	.66	.33	.08	.33	.41	.08	.17	.00	18.26
(2)	.07	.13	.31	.24	.21	.15	.22	.08	.11	.06	.03	.01	.03	.04	.01	.02	.00	1.70
1.1- 1.5	27	77	74	18	12	11	20	12	15	11	14	3	3	0	3	0	0	300
(1)	2.24	6.39	6.14	1.49	1.00	.91	1.66	1.00	1.24	.91	1.16	.25	.25	.00	.25	.00	.00	24.90
(2)	.21	.60	.57	.14	.09	.09	.15	.09	.12	.09	.11	.02	.02	.00	.02	.00	.00	2.32
1.6- 2.0	26	85	42	9	9	6	5	3	7	14	17	3	3	3	2	1	0	235
(1)	2.16	7.05	3.49	.75	.75	.50	.41	.25	.58	1.16	1.41	.25	.25	.25	.17	.08	.00	19.50
(2)	.20	.66	.32	.07	.07	.05	.04	.02	.05	.11	.13	.02	.02	.02	.02	.01	.00	1.82
2.1- 3.0	35	113	43	2	3	3	6	10	9	17	28	7	4	2	5	4	0	291
(1)	2.90	9.38	3.57	.17	.25	.25	.50	.83	.75	1.41	2.32	.58	.33	.17	.41	.33	.00	24.15
(2)	.27	.87	.33	.02	.02	.02	.05	.08	.07	.13	.22	.05	.03	.02	.04	.03	.00	2.25
3.1- 4.0	11	19	6	0	2	1	3	3	5	7	17	21	3	0	4	1	0	103
(1)	.91	1.58	.50	.00	.17	.08	.25	.25	.41	.58	1.41	1.74	.25	.00	.33	.08	.00	8.55
(2)	.09	.15	.05	.00	.02	.01	.02	.02	.04	.05	.13	.16	.02	.00	.03	.01	.00	.80
4.1- 5.0	1	3	2	0	0	0	0	0	0	5	2	15	0	0	0	1	0	29
(1)	.08	.25	.17	.00	.00	.00	.00	.00	.00	.41	.17	1.24	.00	.00	.00	.08	.00	2.41
(2)	.01	.02	.02	.00	.00	.00	.00	.00	.00	.04	.02	.12	.00	.00	.00	.01	.00	.22
5.1- 6.0	1	0	0	0	1	0	0	0	0	2	3	15	0	0	0	0	0	22
(1)	.08	.00	.00	.00	.08	.00	.00	.00	.00	.17	.25	1.24	.00	.00	.00	.00	.00	1.83
(2)	.01	.00	.00	.00	.01	.00	.00	.00	.00	.02	.02	.12	.00	.00	.00	.00	.00	.17

Table 2.3-37—{SSES 197' (60-m) 2001-2006 Spring JFD - continued}

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SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 9.32**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2
(1)	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.17
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	112	314	207	61	54	40	62	38	50	65	85	66	17	10	15	9	0	1205
(1)	9.29	26.06	17.18	5.06	4.48	3.32	5.15	3.15	4.15	5.39	7.05	5.48	1.41	.83	1.24	.75	.00	100.00
(2)	.87	2.43	1.60	.47	.42	.31	.48	.29	.39	.50	.66	.51	.13	.08	.12	.07	.00	9.32

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-37—{SSES 197' (60-m) 2001-2006 Spring JFD - continued}

(Page 1 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 8.03**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	3
(1)	.00	.00	.00	.10	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.29
(2)	.00	.00	.00	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.02
.5- 1.0	6	11	38	26	16	17	11	9	6	3	1	2	1	1	0	2	0	150
(1)	.58	1.06	3.66	2.50	1.54	1.64	1.06	.87	.58	.29	.10	.19	.10	.10	.00	.19	.00	14.45
(2)	.05	.09	.29	.20	.12	.13	.09	.07	.05	.02	.01	.02	.01	.01	.00	.02	.00	1.16
1.1- 1.5	13	53	75	23	16	12	13	11	8	9	5	1	1	0	0	2	0	242
(1)	1.25	5.11	7.23	2.22	1.54	1.16	1.25	1.06	.77	.87	.48	.10	.10	.00	.00	.19	.00	23.31
(2)	.10	.41	.58	.18	.12	.09	.10	.09	.06	.07	.04	.01	.01	.00	.00	.02	.00	1.87
1.6- 2.0	31	116	45	17	4	2	3	3	15	8	6	1	1	0	0	1	0	253
(1)	2.99	11.18	4.34	1.64	.39	.19	.29	.29	1.45	.77	.58	.10	.10	.00	.00	.10	.00	24.37
(2)	.24	.90	.35	.13	.03	.02	.02	.02	.12	.06	.05	.01	.01	.00	.00	.01	.00	1.96
2.1- 3.0	67	129	47	4	2	5	3	4	9	14	21	5	0	1	4	5	0	320
(1)	6.45	12.43	4.53	.39	.19	.48	.29	.39	.87	1.35	2.02	.48	.00	.10	.39	.48	.00	30.83
(2)	.52	1.00	.36	.03	.02	.04	.02	.03	.07	.11	.16	.04	.00	.01	.03	.04	.00	2.48
3.1- 4.0	11	14	5	0	0	0	3	0	2	9	6	2	0	0	0	1	0	53
(1)	1.06	1.35	.48	.00	.00	.00	.29	.00	.19	.87	.58	.19	.00	.00	.00	.10	.00	5.11
(2)	.09	.11	.04	.00	.00	.00	.02	.00	.02	.07	.05	.02	.00	.00	.00	.01	.00	.41
4.1- 5.0	3	0	0	0	0	0	0	1	1	2	0	5	0	0	0	0	0	12
(1)	.29	.00	.00	.00	.00	.00	.00	.10	.10	.19	.00	.48	.00	.00	.00	.00	.00	1.16
(2)	.02	.00	.00	.00	.00	.00	.00	.01	.01	.02	.00	.04	.00	.00	.00	.00	.00	.09
5.1- 6.0	0	0	0	0	0	0	0	1	0	1	1	2	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.10	.00	.10	.10	.19	.00	.00	.00	.00	.00	.48
(2)	.00	.00	.00	.00	.00	.00	.00	.01	.00	.01	.01	.02	.00	.00	.00	.00	.00	.04

Table 2.3-37—{SSES 197' (60-m) 2001-2006 Spring JFD - continued}

(Page 2 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 8.03**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	131	323	210	71	39	36	33	29	41	46	40	18	3	2	5	11	0	1038
(1)	12.62	31.12	20.23	6.84	3.76	3.47	3.18	2.79	3.95	4.43	3.85	1.73	.29	.19	.48	1.06	.00	100.00
(2)	1.01	2.50	1.62	.55	.30	.28	.26	.22	.32	.36	.31	.14	.02	.02	.04	.09	.00	8.03

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-37—{SSES 197' (60-m) 2001-2006 Spring JFD - continued}

(Page 1 of 2)

SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	1	0	0	3	1	0	2	1	1	1	0	0	0	0	1	0	0	11
(1)	.01	.00	.00	.02	.01	.00	.02	.01	.01	.01	.00	.00	.00	.00	.01	.00	.00	.09
(2)	.01	.00	.00	.02	.01	.00	.02	.01	.01	.01	.00	.00	.00	.00	.01	.00	.00	.09
.5- 1.0	41	74	154	121	103	74	85	61	55	43	27	16	15	11	5	12	0	897
(1)	.32	.57	1.19	.94	.80	.57	.66	.47	.43	.33	.21	.12	.12	.09	.04	.09	.00	6.94
(2)	.32	.57	1.19	.94	.80	.57	.66	.47	.43	.33	.21	.12	.12	.09	.04	.09	.00	6.94
1.1- 1.5	72	225	267	100	65	58	76	64	75	90	89	31	13	7	11	20	0	1263
(1)	.56	1.74	2.07	.77	.50	.45	.59	.50	.58	.70	.69	.24	.10	.05	.09	.15	.00	9.77
(2)	.56	1.74	2.07	.77	.50	.45	.59	.50	.58	.70	.69	.24	.10	.05	.09	.15	.00	9.77
1.6- 2.0	105	306	177	84	46	48	49	46	63	93	118	49	20	13	15	12	0	1244
(1)	.81	2.37	1.37	.65	.36	.37	.38	.36	.49	.72	.91	.38	.15	.10	.12	.09	.00	9.63
(2)	.81	2.37	1.37	.65	.36	.37	.38	.36	.49	.72	.91	.38	.15	.10	.12	.09	.00	9.63
2.1- 3.0	224	448	288	116	77	88	82	104	111	186	275	145	73	62	58	57	0	2394
(1)	1.73	3.47	2.23	.90	.60	.68	.63	.80	.86	1.44	2.13	1.12	.56	.48	.45	.44	.00	18.52
(2)	1.73	3.47	2.23	.90	.60	.68	.63	.80	.86	1.44	2.13	1.12	.56	.48	.45	.44	.00	18.52
3.1- 4.0	164	240	204	60	64	53	82	86	92	143	232	193	87	78	95	98	0	1971
(1)	1.27	1.86	1.58	.46	.50	.41	.63	.67	.71	1.11	1.80	1.49	.67	.60	.74	.76	.00	15.25
(2)	1.27	1.86	1.58	.46	.50	.41	.63	.67	.71	1.11	1.80	1.49	.67	.60	.74	.76	.00	15.25
4.1- 5.0	172	216	127	54	45	59	83	67	71	105	185	214	93	108	138	148	0	1885
(1)	1.33	1.67	.98	.42	.35	.46	.64	.52	.55	.81	1.43	1.66	.72	.84	1.07	1.15	.00	14.59
(2)	1.33	1.67	.98	.42	.35	.46	.64	.52	.55	.81	1.43	1.66	.72	.84	1.07	1.15	.00	14.59
5.1- 6.0	127	172	72	23	16	32	62	50	73	100	153	203	86	87	130	121	0	1507
(1)	.98	1.33	.56	.18	.12	.25	.48	.39	.56	.77	1.18	1.57	.67	.67	1.01	.94	.00	11.66
(2)	.98	1.33	.56	.18	.12	.25	.48	.39	.56	.77	1.18	1.57	.67	.67	1.01	.94	.00	11.66

Table 2.3-37—{SSES 197' (60-m) 2001-2006 Spring JFD - continued}

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SSES SPRING 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	80	104	42	8	21	36	23	30	86	91	131	285	158	101	112	69	0	1377
(1)	.62	.80	.32	.06	.16	.28	.18	.23	.67	.70	1.01	2.21	1.22	.78	.87	.53	.00	10.65
(2)	.62	.80	.32	.06	.16	.28	.18	.23	.67	.70	1.01	2.21	1.22	.78	.87	.53	.00	10.65
8.1-10.0	9	11	3	1	3	6	4	5	15	20	29	99	66	17	11	9	0	308
(1)	.07	.09	.02	.01	.02	.05	.03	.04	.12	.15	.22	.77	.51	.13	.09	.07	.00	2.38
(2)	.07	.09	.02	.01	.02	.05	.03	.04	.12	.15	.22	.77	.51	.13	.09	.07	.00	2.38
10.1-40.3	1	2	1	0	1	1	1	0	5	3	11	24	16	1	0	0	0	67
(1)	.01	.02	.01	.00	.01	.01	.01	.00	.04	.02	.09	.19	.12	.01	.00	.00	.00	.52
(2)	.01	.02	.01	.00	.01	.01	.01	.00	.04	.02	.09	.19	.12	.01	.00	.00	.00	.52
ALL SPEEDS	996	1798	1335	570	442	455	549	514	647	875	1250	1259	627	485	576	546	0	12924
(1)	7.71	13.91	10.33	4.41	3.42	3.52	4.25	3.98	5.01	6.77	9.67	9.74	4.85	3.75	4.46	4.22	.00	100.00
(2)	7.71	13.91	10.33	4.41	3.42	3.52	4.25	3.98	5.01	6.77	9.67	9.74	4.85	3.75	4.46	4.22	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-38 {SSES 197' (60-m) 2001-2006 Summer JFD}

(Page 1 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS A — CLASS FREQUENCY (PERCENT) = 8.67

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	2	2	4	4	5	3	0	2	0	2	0	0	0	0	0	0	24
(1)	.00	.19	.19	.39	.39	.48	.29	.00	.19	.00	.19	.00	.00	.00	.00	.00	.00	2.33
(2)	.00	.02	.02	.03	.03	.04	.03	.00	.02	.00	.02	.00	.00	.00	.00	.00	.00	.20
1.1- 1.5	0	2	17	10	7	4	6	1	8	14	7	1	0	1	1	0	0	79
(1)	.00	.19	1.65	.97	.68	.39	.58	.10	.78	1.36	.68	.10	.00	.10	.10	.00	.00	7.66
(2)	.00	.02	.14	.08	.06	.03	.05	.01	.07	.12	.06	.01	.00	.01	.01	.00	.00	.66
1.6- 2.0	3	6	14	16	8	6	9	5	7	8	7	2	1	1	0	0	0	93
(1)	.29	.58	1.36	1.55	.78	.58	.87	.48	.68	.78	.68	.19	.10	.10	.00	.00	.00	9.02
(2)	.03	.05	.12	.13	.07	.05	.08	.04	.06	.07	.06	.02	.01	.01	.00	.00	.00	.78
2.1- 3.0	5	15	24	5	2	4	11	4	7	27	43	11	1	0	2	0	0	161
(1)	.48	1.45	2.33	.48	.19	.39	1.07	.39	.68	2.62	4.17	1.07	.10	.00	.19	.00	.00	15.62
(2)	.04	.13	.20	.04	.02	.03	.09	.03	.06	.23	.36	.09	.01	.00	.02	.00	.00	1.35
3.1- 4.0	17	14	18	1	1	0	8	3	8	7	59	19	3	4	2	5	0	169
(1)	1.65	1.36	1.75	.10	.10	.00	.78	.29	.78	.68	5.72	1.84	.29	.39	.19	.48	.00	16.39
(2)	.14	.12	.15	.01	.01	.00	.07	.03	.07	.06	.50	.16	.03	.03	.02	.04	.00	1.42
4.1- 5.0	23	13	5	9	0	0	7	4	5	18	104	38	12	4	2	3	0	247
(1)	2.23	1.26	.48	.87	.00	.00	.68	.39	.48	1.75	10.09	3.69	1.16	.39	.19	.29	.00	23.96
(2)	.19	.11	.04	.08	.00	.00	.06	.03	.04	.15	.87	.32	.10	.03	.02	.03	.00	2.08
5.1- 6.0	6	14	1	1	0	0	5	2	6	8	72	53	11	0	1	2	0	182
(1)	.58	1.36	.10	.10	.00	.00	.48	.19	.58	.78	6.98	5.14	1.07	.00	.10	.19	.00	17.65
(2)	.05	.12	.01	.01	.00	.00	.04	.02	.05	.07	.61	.45	.09	.00	.01	.02	.00	1.53

Table 2.3-38 {SSES 197' (60-m) 2001-2006 Summer JFD}

(Page 2 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 8.67**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	2	1	0	1	0	3	0	1	5	7	20	30	1	0	2	1	0	74
(1)	.19	.10	.00	.10	.00	.29	.00	.10	.48	.68	1.94	2.91	.10	.00	.19	.10	.00	7.18
(2)	.02	.01	.00	.01	.00	.03	.00	.01	.04	.06	.17	.25	.01	.00	.02	.01	.00	.62
8.1-10.0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.00	.00	.00	.00	.00	.00	.19
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	56	67	81	47	22	22	49	20	48	89	316	154	29	10	10	11	0	1031
(1)	5.43	6.50	7.86	4.56	2.13	2.13	4.75	1.94	4.66	8.63	30.65	14.94	2.81	.97	.97	1.07	.00	100.00
(2)	.47	.56	.68	.40	.18	.18	.41	.17	.40	.75	2.66	1.29	.24	.08	.08	.09	.00	8.67

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-38—{SSES 197' (60-m) 2001-2006 Summer JFD - continued}

(Page 1 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 4.40**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	1	4	2	3	2	1	1	1	0	0	0	0	0	0	0	15
(1)	.00	.00	.19	.76	.38	.57	.38	.19	.19	.19	.00	.00	.00	.00	.00	.00	.00	2.87
(2)	.00	.00	.01	.03	.02	.03	.02	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.13
1.1- 1.5	1	3	6	6	5	2	1	1	1	2	1	1	0	0	1	0	0	31
(1)	.19	.57	1.15	1.15	.96	.38	.19	.19	.19	.38	.19	.19	.00	.00	.19	.00	.00	5.93
(2)	.01	.03	.05	.05	.04	.02	.01	.01	.01	.02	.01	.01	.00	.00	.01	.00	.00	.26
1.6- 2.0	2	8	7	4	0	4	1	0	0	2	5	0	0	0	1	2	0	36
(1)	.38	1.53	1.34	.76	.00	.76	.19	.00	.00	.38	.96	.00	.00	.00	.19	.38	.00	6.88
(2)	.02	.07	.06	.03	.00	.03	.01	.00	.00	.02	.04	.00	.00	.00	.01	.02	.00	.30
2.1- 3.0	5	16	10	7	2	1	3	2	3	6	19	1	1	1	1	1	0	79
(1)	.96	3.06	1.91	1.34	.38	.19	.57	.38	.57	1.15	3.63	.19	.19	.19	.19	.19	.00	15.11
(2)	.04	.13	.08	.06	.02	.01	.03	.02	.03	.05	.16	.01	.01	.01	.01	.01	.00	.66
3.1- 4.0	9	18	7	5	0	0	4	1	2	9	36	11	1	3	1	2	0	109
(1)	1.72	3.44	1.34	.96	.00	.00	.76	.19	.38	1.72	6.88	2.10	.19	.57	.19	.38	.00	20.84
(2)	.08	.15	.06	.04	.00	.00	.03	.01	.02	.08	.30	.09	.01	.03	.01	.02	.00	.92
4.1- 5.0	7	10	2	0	1	0	2	3	5	4	45	19	12	4	3	6	0	123
(1)	1.34	1.91	.38	.00	.19	.00	.38	.57	.96	.76	8.60	3.63	2.29	.76	.57	1.15	.00	23.52
(2)	.06	.08	.02	.00	.01	.00	.02	.03	.04	.03	.38	.16	.10	.03	.03	.05	.00	1.03
5.1- 6.0	8	4	0	0	0	0	2	0	1	9	28	19	5	0	2	6	0	84
(1)	1.53	.76	.00	.00	.00	.00	.38	.00	.19	1.72	5.35	3.63	.96	.00	.38	1.15	.00	16.06
(2)	.07	.03	.00	.00	.00	.00	.02	.00	.01	.08	.24	.16	.04	.00	.02	.05	.00	.71

Table 2.3-38—{SSES 197' (60-m) 2001-2006 Summer JFD - continued}

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SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 4.40**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	3	2	0	0	0	1	0	0	1	5	10	17	3	0	0	1	0	43
(1)	.57	.38	.00	.00	.00	.19	.00	.00	.19	.96	1.91	3.25	.57	.00	.00	.19	.00	8.22
(2)	.03	.02	.00	.00	.00	.01	.00	.00	.01	.04	.08	.14	.03	.00	.00	.01	.00	.36
8.1-10.0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	3
(1)	.19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.19	.00	.00	.00	.00	.00	.57
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00	.00	.00	.00	.00	.03
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	36	61	33	26	10	11	15	8	14	38	145	69	22	8	9	18	0	523
(1)	6.88	11.66	6.31	4.97	1.91	2.10	2.87	1.53	2.68	7.27	27.72	13.19	4.21	1.53	1.72	3.44	.00	100.00
(2)	.30	.51	.28	.22	.08	.09	.13	.07	.12	.32	1.22	.58	.18	.07	.08	.15	.00	4.40

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-38—{SSES 197' (60-m) 2001-2006 Summer JFD - continued}

(Page 1 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 5.57**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	3	6	4	0	0	0	6	2	2	0	0	0	0	0	0	23
(1)	.00	.00	.45	.91	.60	.00	.00	.00	.91	.30	.30	.00	.00	.00	.00	.00	.00	3.47
(2)	.00	.00	.03	.05	.03	.00	.00	.00	.05	.02	.02	.00	.00	.00	.00	.00	.00	.19
1.1- 1.5	1	5	4	6	7	4	2	3	2	7	3	1	0	1	0	1	0	47
(1)	.15	.76	.60	.91	1.06	.60	.30	.45	.30	1.06	.45	.15	.00	.15	.00	.15	.00	7.10
(2)	.01	.04	.03	.05	.06	.03	.02	.03	.02	.06	.03	.01	.00	.01	.00	.01	.00	.40
1.6- 2.0	5	12	7	6	5	1	1	1	4	8	6	1	2	0	0	2	0	61
(1)	.76	1.81	1.06	.91	.76	.15	.15	.15	.60	1.21	.91	.15	.30	.00	.00	.30	.00	9.21
(2)	.04	.10	.06	.05	.04	.01	.01	.01	.03	.07	.05	.01	.02	.00	.00	.02	.00	.51
2.1- 3.0	8	17	8	8	0	2	4	3	5	11	22	8	1	4	3	5	0	109
(1)	1.21	2.57	1.21	1.21	.00	.30	.60	.45	.76	1.66	3.32	1.21	.15	.60	.45	.76	.00	16.47
(2)	.07	.14	.07	.07	.00	.02	.03	.03	.04	.09	.18	.07	.01	.03	.03	.04	.00	.92
3.1- 4.0	14	11	8	0	1	1	3	1	2	11	37	20	3	3	9	7	0	131
(1)	2.11	1.66	1.21	.00	.15	.15	.45	.15	.30	1.66	5.59	3.02	.45	.45	1.36	1.06	.00	19.79
(2)	.12	.09	.07	.00	.01	.01	.03	.01	.02	.09	.31	.17	.03	.03	.08	.06	.00	1.10
4.1- 5.0	13	4	2	1	0	2	1	1	8	9	50	22	6	5	9	8	0	141
(1)	1.96	.60	.30	.15	.00	.30	.15	.15	1.21	1.36	7.55	3.32	.91	.76	1.36	1.21	.00	21.30
(2)	.11	.03	.02	.01	.00	.02	.01	.01	.07	.08	.42	.18	.05	.04	.08	.07	.00	1.19
5.1- 6.0	3	3	0	0	0	0	1	2	2	5	16	23	8	1	4	6	0	74
(1)	.45	.45	.00	.00	.00	.00	.15	.30	.30	.76	2.42	3.47	1.21	.15	.60	.91	.00	11.18
(2)	.03	.03	.00	.00	.00	.00	.01	.02	.02	.04	.13	.19	.07	.01	.03	.05	.00	.62

Table 2.3-38—{SSES 197' (60-m) 2001-2006 Summer JFD - continued}

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SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 5.57**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	4	0	0	0	0	0	0	1	6	15	32	1	3	6	2	0	71
(1)	.15	.60	.00	.00	.00	.00	.00	.00	.15	.91	2.27	4.83	.15	.45	.91	.30	.00	10.73
(2)	.01	.03	.00	.00	.00	.00	.00	.00	.01	.05	.13	.27	.01	.03	.05	.02	.00	.60
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15	.60	.00	.00	.00	.00	.00	.76
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.00	.00	.00	.00	.00	.04
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	45	56	32	27	17	10	12	11	30	59	152	111	21	17	31	31	0	662
(1)	6.80	8.46	4.83	4.08	2.57	1.51	1.81	1.66	4.53	8.91	22.96	16.77	3.17	2.57	4.68	4.68	.00	100.00
(2)	.38	.47	.27	.23	.14	.08	.10	.09	.25	.50	1.28	.93	.18	.14	.26	.26	.00	5.57

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIO

Table 2.3-38—{SSES 197' (60-m) 2001-2006 Summer JFD - continued}

(Page 1 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 31.42**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
(2)	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
.2- .4	0	2	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	6
(1)	.00	.05	.00	.03	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16
(2)	.00	.02	.00	.01	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
.5- 1.0	6	27	50	44	31	30	28	26	31	15	15	10	1	1	2	3	0	320
(1)	.16	.72	1.34	1.18	.83	.80	.75	.70	.83	.40	.40	.27	.03	.03	.05	.08	.00	8.56
(2)	.05	.23	.42	.37	.26	.25	.24	.22	.26	.13	.13	.08	.01	.01	.02	.03	.00	2.69
1.1- 1.5	14	57	64	34	23	17	19	19	36	43	44	17	5	3	3	7	0	405
(1)	.37	1.52	1.71	.91	.62	.45	.51	.51	.96	1.15	1.18	.45	.13	.08	.08	.19	.00	10.83
(2)	.12	.48	.54	.29	.19	.14	.16	.16	.30	.36	.37	.14	.04	.03	.03	.06	.00	3.40
1.6- 2.0	25	49	43	27	22	17	17	19	24	63	70	33	4	1	3	6	0	423
(1)	.67	1.31	1.15	.72	.59	.45	.45	.51	.64	1.69	1.87	.88	.11	.03	.08	.16	.00	11.32
(2)	.21	.41	.36	.23	.18	.14	.14	.16	.20	.53	.59	.28	.03	.01	.03	.05	.00	3.56
2.1- 3.0	57	92	57	39	37	27	39	27	29	81	156	44	16	20	19	26	0	766
(1)	1.52	2.46	1.52	1.04	.99	.72	1.04	.72	.78	2.17	4.17	1.18	.43	.54	.51	.70	.00	20.49
(2)	.48	.77	.48	.33	.31	.23	.33	.23	.24	.68	1.31	.37	.13	.17	.16	.22	.00	6.44
3.1- 4.0	58	65	42	10	15	19	31	38	29	49	121	71	25	19	41	41	0	674
(1)	1.55	1.74	1.12	.27	.40	.51	.83	1.02	.78	1.31	3.24	1.90	.67	.51	1.10	1.10	.00	18.03
(2)	.49	.55	.35	.08	.13	.16	.26	.32	.24	.41	1.02	.60	.21	.16	.34	.34	.00	5.67
4.1- 5.0	36	60	26	1	8	19	14	23	53	39	131	94	20	19	39	45	0	627
(1)	.96	1.61	.70	.03	.21	.51	.37	.62	1.42	1.04	3.50	2.51	.54	.51	1.04	1.20	.00	16.77
(2)	.30	.50	.22	.01	.07	.16	.12	.19	.45	.33	1.10	.79	.17	.16	.33	.38	.00	5.27
5.1- 6.0	16	32	4	0	3	6	6	9	29	35	66	73	13	4	17	21	0	334
(1)	.43	.86	.11	.00	.08	.16	.16	.24	.78	.94	1.77	1.95	.35	.11	.45	.56	.00	8.94
(2)	.13	.27	.03	.00	.03	.05	.05	.08	.24	.29	.55	.61	.11	.03	.14	.18	.00	2.81

Table 2.3-38—{SSES 197' (60-m) 2001-2006 Summer JFD - continued}

(Page 2 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 31.42**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	4	7	1	0	2	3	2	1	9	20	38	63	5	1	4	5	0	165
(1)	.11	.19	.03	.00	.05	.08	.05	.03	.24	.54	1.02	1.69	.13	.03	.11	.13	.00	4.41
(2)	.03	.06	.01	.00	.02	.03	.02	.01	.08	.17	.32	.53	.04	.01	.03	.04	.00	1.39
8.1-10.0	0	0	0	0	0	0	0	0	1	2	3	11	0	0	0	0	0	17
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.03	.05	.08	.29	.00	.00	.00	.00	.00	.45
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.03	.09	.00	.00	.00	.00	.00	.14
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	216	391	287	156	145	138	156	162	241	347	644	416	89	68	128	154	0	3738
(1)	5.78	10.46	7.68	4.17	3.88	3.69	4.17	4.33	6.45	9.28	17.23	11.13	2.38	1.82	3.42	4.12	.00	100.00
(2)	1.82	3.29	2.41	1.31	1.22	1.16	1.31	1.36	2.03	2.92	5.41	3.50	.75	.57	1.08	1.29	.00	31.42

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-38—{SSES 197' (60-m) 2001-2006 Summer JFD - continued}

(Page 1 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 30.29**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
(2)	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
.2- .4	0	0	2	3	2	3	3	2	0	1	0	0	0	0	0	0	0	16
(1)	.00	.00	.06	.08	.06	.08	.08	.06	.00	.03	.00	.00	.00	.00	.00	.00	.00	.44
(2)	.00	.00	.02	.03	.02	.03	.03	.02	.00	.01	.00	.00	.00	.00	.00	.00	.00	.13
.5- 1.0	17	57	118	69	61	56	49	37	43	22	15	7	1	1	3	6	0	562
(1)	.47	1.58	3.28	1.92	1.69	1.55	1.36	1.03	1.19	.61	.42	.19	.03	.03	.08	.17	.00	15.60
(2)	.14	.48	.99	.58	.51	.47	.41	.31	.36	.18	.13	.06	.01	.01	.03	.05	.00	4.72
1.1- 1.5	26	119	154	44	43	23	38	35	45	44	31	15	7	4	2	5	0	635
(1)	.72	3.30	4.27	1.22	1.19	.64	1.05	.97	1.25	1.22	.86	.42	.19	.11	.06	.14	.00	17.62
(2)	.22	1.00	1.29	.37	.36	.19	.32	.29	.38	.37	.26	.13	.06	.03	.02	.04	.00	5.34
1.6- 2.0	45	205	87	21	20	12	23	21	34	40	45	13	4	4	4	4	0	582
(1)	1.25	5.69	2.41	.58	.56	.33	.64	.58	.94	1.11	1.25	.36	.11	.11	.11	.11	.00	16.15
(2)	.38	1.72	.73	.18	.17	.10	.19	.18	.29	.34	.38	.11	.03	.03	.03	.03	.00	4.89
2.1- 3.0	87	227	81	37	27	20	28	38	44	57	108	40	5	9	9	13	0	830
(1)	2.41	6.30	2.25	1.03	.75	.56	.78	1.05	1.22	1.58	3.00	1.11	.14	.25	.25	.36	.00	23.04
(2)	.73	1.91	.68	.31	.23	.17	.24	.32	.37	.48	.91	.34	.04	.08	.08	.11	.00	6.98
3.1- 4.0	29	62	52	5	12	9	22	33	44	87	81	45	8	7	10	15	0	521
(1)	.80	1.72	1.44	.14	.33	.25	.61	.92	1.22	2.41	2.25	1.25	.22	.19	.28	.42	.00	14.46
(2)	.24	.52	.44	.04	.10	.08	.18	.28	.37	.73	.68	.38	.07	.06	.08	.13	.00	4.38
4.1- 5.0	13	19	10	1	2	5	8	6	33	57	53	48	2	3	13	10	0	283
(1)	.36	.53	.28	.03	.06	.14	.22	.17	.92	1.58	1.47	1.33	.06	.08	.36	.28	.00	7.85
(2)	.11	.16	.08	.01	.02	.04	.07	.05	.28	.48	.45	.40	.02	.03	.11	.08	.00	2.38
5.1- 6.0	2	11	1	0	0	0	4	3	10	16	22	38	2	2	10	5	0	126
(1)	.06	.31	.03	.00	.00	.00	.11	.08	.28	.44	.61	1.05	.06	.06	.28	.14	.00	3.50
(2)	.02	.09	.01	.00	.00	.00	.03	.03	.08	.13	.18	.32	.02	.02	.08	.04	.00	1.06

Table 2.3-38—{SSES 197' (60-m) 2001-2006 Summer JFD - continued}

(Page 2 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 30.29

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	3	2	0	0	0	0	4	6	7	9	4	1	0	1	2	0	40
(1)	.03	.08	.06	.00	.00	.00	.00	.11	.17	.19	.25	.11	.03	.00	.03	.06	.00	1.11
(2)	.01	.03	.02	.00	.00	.00	.00	.03	.05	.06	.08	.03	.01	.00	.01	.02	.00	.34
8.1-10.0	0	0	0	0	0	0	0	1	5	0	0	1	0	0	0	0	0	7
(1)	.00	.00	.00	.00	.00	.00	.00	.03	.14	.00	.00	.03	.00	.00	.00	.00	.00	.19
(2)	.00	.00	.00	.00	.00	.00	.00	.01	.04	.00	.00	.01	.00	.00	.00	.00	.00	.06
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	220	703	508	180	167	128	175	180	264	331	364	211	30	30	52	60	0	3603
(1)	6.11	19.51	14.10	5.00	4.64	3.55	4.86	5.00	7.33	9.19	10.10	5.86	.83	.83	1.44	1.67	.00	100.00
(2)	1.85	5.91	4.27	1.51	1.40	1.08	1.47	1.51	2.22	2.78	3.06	1.77	.25	.25	.44	.50	.00	30.29

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIO

Table 2.3-38—{SSES 197' (60-m) 2001-2006 Summer JFD - continued}

(Page 1 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 14.71**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	3	3	0	1	0	1	0	0	0	0	0	0	0	0	0	8
(1)	.00	.00	.17	.17	.00	.06	.00	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.46
(2)	.00	.00	.03	.03	.00	.01	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
.5- 1.0	6	26	63	43	38	39	29	19	8	3	5	4	2	0	1	1	0	287
(1)	.34	1.49	3.60	2.46	2.17	2.23	1.66	1.09	.46	.17	.29	.23	.11	.00	.06	.06	.00	16.40
(2)	.05	.22	.53	.36	.32	.33	.24	.16	.07	.03	.04	.03	.02	.00	.01	.01	.00	2.41
1.1- 1.5	19	135	114	40	32	23	24	26	40	14	5	1	1	1	1	3	0	479
(1)	1.09	7.71	6.51	2.29	1.83	1.31	1.37	1.49	2.29	.80	.29	.06	.06	.06	.06	.17	.00	27.37
(2)	.16	1.13	.96	.34	.27	.19	.20	.22	.34	.12	.04	.01	.01	.01	.01	.03	.00	4.03
1.6- 2.0	30	216	68	10	6	5	6	6	13	21	8	5	1	0	0	1	0	396
(1)	1.71	12.34	3.89	.57	.34	.29	.34	.34	.74	1.20	.46	.29	.06	.00	.00	.06	.00	22.63
(2)	.25	1.82	.57	.08	.05	.04	.05	.05	.11	.18	.07	.04	.01	.00	.00	.01	.00	3.33
2.1- 3.0	69	260	19	0	6	3	1	2	7	24	32	5	1	3	5	2	0	439
(1)	3.94	14.86	1.09	.00	.34	.17	.06	.11	.40	1.37	1.83	.29	.06	.17	.29	.11	.00	25.09
(2)	.58	2.19	.16	.00	.05	.03	.01	.02	.06	.20	.27	.04	.01	.03	.04	.02	.00	3.69
3.1- 4.0	12	15	3	0	2	1	1	3	1	11	26	14	1	0	1	0	0	91
(1)	.69	.86	.17	.00	.11	.06	.06	.17	.06	.63	1.49	.80	.06	.00	.06	.00	.00	5.20
(2)	.10	.13	.03	.00	.02	.01	.01	.03	.01	.09	.22	.12	.01	.00	.01	.00	.00	.77
4.1- 5.0	3	1	1	0	0	0	0	0	2	2	9	23	0	0	2	0	0	43
(1)	.17	.06	.06	.00	.00	.00	.00	.00	.11	.11	.51	1.31	.00	.00	.11	.00	.00	2.46
(2)	.03	.01	.01	.00	.00	.00	.00	.00	.02	.02	.08	.19	.00	.00	.02	.00	.00	.36
5.1- 6.0	0	0	0	0	0	0	0	0	0	1	1	4	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.06	.23	.00	.00	.00	.00	.00	.34
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.03	.00	.00	.00	.00	.00	.05

Table 2.3-38—{SSES 197' (60-m) 2001-2006 Summer JFD - continued}

(Page 2 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 14.71**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00	.06
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.01
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	139	653	271	96	84	72	61	57	71	76	86	56	6	4	11	7	0	1750
(1)	7.94	37.31	15.49	5.49	4.80	4.11	3.49	3.26	4.06	4.34	4.91	3.20	.34	.23	.63	.40	.00	100.00
(2)	1.17	5.49	2.28	.81	.71	.61	.51	.48	.60	.64	.72	.47	.05	.03	.09	.06	.00	14.71

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-38—{SSES 197' (60-m) 2001-2006 Summer JFD - continued}

(Page 1 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 4.94**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.17
(2)	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
.5- 1.0	3	5	9	19	12	14	5	11	1	1	1	0	0	0	0	1	0	82
(1)	.51	.85	1.53	3.23	2.04	2.38	.85	1.87	.17	.17	.17	.00	.00	.00	.00	.17	.00	13.95
(2)	.03	.04	.08	.16	.10	.12	.04	.09	.01	.01	.01	.00	.00	.00	.00	.01	.00	.69
1.1- 1.5	4	45	54	19	10	10	13	9	11	8	5	0	0	1	1	0	0	190
(1)	.68	7.65	9.18	3.23	1.70	1.70	2.21	1.53	1.87	1.36	.85	.00	.00	.17	.17	.00	.00	32.31
(2)	.03	.38	.45	.16	.08	.08	.11	.08	.09	.07	.04	.00	.00	.01	.01	.00	.00	1.60
1.6- 2.0	9	78	31	5	1	2	2	0	4	8	6	1	0	0	1	0	0	148
(1)	1.53	13.27	5.27	.85	.17	.34	.34	.00	.68	1.36	1.02	.17	.00	.00	.17	.00	.00	25.17
(2)	.08	.66	.26	.04	.01	.02	.02	.00	.03	.07	.05	.01	.00	.00	.01	.00	.00	1.24
2.1- 3.0	24	65	13	0	0	0	0	0	3	15	11	1	0	1	2	1	0	136
(1)	4.08	11.05	2.21	.00	.00	.00	.00	.00	.51	2.55	1.87	.17	.00	.17	.34	.17	.00	23.13
(2)	.20	.55	.11	.00	.00	.00	.00	.00	.03	.13	.09	.01	.00	.01	.02	.01	.00	1.14
3.1- 4.0	9	6	0	0	0	0	0	0	0	3	5	4	0	1	1	0	0	29
(1)	1.53	1.02	.00	.00	.00	.00	.00	.00	.00	.51	.85	.68	.00	.17	.17	.00	.00	4.93
(2)	.08	.05	.00	.00	.00	.00	.00	.00	.00	.03	.04	.03	.00	.01	.01	.00	.00	.24
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.17	.00	.00	.17	.00	.00	.34
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.01	.00	.00	.02
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-38—{SSES 197' (60-m) 2001-2006 Summer JFD - continued}

(Page 2 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 4.94

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	49	199	107	43	23	27	20	20	19	35	28	7	0	3	6	2	0	588
(1)	8.33	33.84	18.20	7.31	3.91	4.59	3.40	3.40	3.23	5.95	4.76	1.19	.00	.51	1.02	.34	.00	100.00
(2)	.41	1.67	.90	.36	.19	.23	.17	.17	.16	.29	.24	.06	.00	.03	.05	.02	.00	4.94

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-38—{SSES 197' (60-m) 2001-2006 Summer JFD - continued}

(Page 1 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.01	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
(2)	.00	.00	.01	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.2- .4	0	2	5	7	5	5	3	3	0	1	0	0	0	0	0	0	0	31
(1)	.00	.02	.04	.06	.04	.04	.03	.03	.00	.01	.00	.00	.00	.00	.00	.00	.00	.26
(2)	.00	.02	.04	.06	.04	.04	.03	.03	.00	.01	.00	.00	.00	.00	.00	.00	.00	.26
.5- 1.0	32	117	246	189	152	147	116	94	92	44	40	21	4	2	6	11	0	1313
(1)	.27	.98	2.07	1.59	1.28	1.24	.98	.79	.77	.37	.34	.18	.03	.02	.05	.09	.00	11.04
(2)	.27	.98	2.07	1.59	1.28	1.24	.98	.79	.77	.37	.34	.18	.03	.02	.05	.09	.00	11.04
1.1- 1.5	65	366	413	159	127	83	103	94	143	132	96	36	13	11	9	16	0	1866
(1)	.55	3.08	3.47	1.34	1.07	.70	.87	.79	1.20	1.11	.81	.30	.11	.09	.08	.13	.00	15.69
(2)	.55	3.08	3.47	1.34	1.07	.70	.87	.79	1.20	1.11	.81	.30	.11	.09	.08	.13	.00	15.69
1.6- 2.0	119	574	257	89	62	47	59	52	86	150	147	55	12	6	9	15	0	1739
(1)	1.00	4.83	2.16	.75	.52	.40	.50	.44	.72	1.26	1.24	.46	.10	.05	.08	.13	.00	14.62
(2)	1.00	4.83	2.16	.75	.52	.40	.50	.44	.72	1.26	1.24	.46	.10	.05	.08	.13	.00	14.62
2.1- 3.0	255	692	212	96	74	57	86	76	98	221	391	110	25	38	41	48	0	2520
(1)	2.14	5.82	1.78	.81	.62	.48	.72	.64	.82	1.86	3.29	.92	.21	.32	.34	.40	.00	21.19
(2)	2.14	5.82	1.78	.81	.62	.48	.72	.64	.82	1.86	3.29	.92	.21	.32	.34	.40	.00	21.19
3.1- 4.0	148	191	130	21	31	30	69	79	86	177	365	184	41	37	65	70	0	1724
(1)	1.24	1.61	1.09	.18	.26	.25	.58	.66	.72	1.49	3.07	1.55	.34	.31	.55	.59	.00	14.49
(2)	1.24	1.61	1.09	.18	.26	.25	.58	.66	.72	1.49	3.07	1.55	.34	.31	.55	.59	.00	14.49
4.1- 5.0	95	107	46	12	11	26	32	37	106	129	392	245	52	35	69	72	0	1466
(1)	.80	.90	.39	.10	.09	.22	.27	.31	.89	1.08	3.30	2.06	.44	.29	.58	.61	.00	12.32
(2)	.80	.90	.39	.10	.09	.22	.27	.31	.89	1.08	3.30	2.06	.44	.29	.58	.61	.00	12.32
5.1- 6.0	35	64	6	1	3	6	18	16	48	74	205	210	39	7	34	40	0	806
(1)	.29	.54	.05	.01	.03	.05	.15	.13	.40	.62	1.72	1.77	.33	.06	.29	.34	.00	6.78
(2)	.29	.54	.05	.01	.03	.05	.15	.13	.40	.62	1.72	1.77	.33	.06	.29	.34	.00	6.78

Table 2.3-38—{SSES 197' (60-m) 2001-2006 Summer JFD - continued}

(Page 2 of 2)

SSES SUMMER 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	11	17	3	1	2	7	2	6	22	45	92	146	11	4	14	11	0	394
(1)	.09	.14	.03	.01	.02	.06	.02	.05	.18	.38	.77	1.23	.09	.03	.12	.09	.00	3.31
(2)	.09	.14	.03	.01	.02	.06	.02	.05	.18	.38	.77	1.23	.09	.03	.12	.09	.00	3.31
8.1-10.0	1	0	0	0	0	0	0	1	6	2	7	17	0	0	0	0	0	34
(1)	.01	.00	.00	.00	.00	.00	.00	.01	.05	.02	.06	.14	.00	.00	.00	.00	.00	.29
(2)	.01	.00	.00	.00	.00	.00	.00	.01	.05	.02	.06	.14	.00	.00	.00	.00	.00	.29
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	761	2130	1319	575	468	408	488	458	687	975	1735	1024	197	140	247	283	0	11895
(1)	6.40	17.91	11.09	4.83	3.93	3.43	4.10	3.85	5.78	8.20	14.59	8.61	1.66	1.18	2.08	2.38	.00	100.00
(2)	6.40	17.91	11.09	4.83	3.93	3.43	4.10	3.85	5.78	8.20	14.59	8.61	1.66	1.18	2.08	2.38	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-39 {SSES 197' (60-m) 2001-2006 Autumn JFD}

(Page 1 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS A — CLASS FREQUENCY (PERCENT) = 3.51

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	2	3	3	3	2	1	3	2	1	0	0	0	1	0	0	21
(1)	.00	.00	.44	.67	.67	.67	.44	.22	.67	.44	.22	.00	.00	.00	.22	.00	.00	4.67
(2)	.00	.00	.02	.02	.02	.02	.02	.01	.02	.02	.01	.00	.00	.00	.01	.00	.00	.16
1.1- 1.5	1	2	4	6	3	3	1	2	6	4	4	0	0	0	0	0	0	36
(1)	.22	.44	.89	1.33	.67	.67	.22	.44	1.33	.89	.89	.00	.00	.00	.00	.00	.00	8.00
(2)	.01	.02	.03	.05	.02	.02	.01	.02	.05	.03	.03	.00	.00	.00	.00	.00	.00	.28
1.6- 2.0	0	6	5	6	2	2	4	6	4	8	8	4	0	0	0	0	0	55
(1)	.00	1.33	1.11	1.33	.44	.44	.89	1.33	.89	1.78	1.78	.89	.00	.00	.00	.00	.00	12.22
(2)	.00	.05	.04	.05	.02	.02	.03	.05	.03	.06	.06	.03	.00	.00	.00	.00	.00	.43
2.1- 3.0	1	11	9	2	1	1	3	8	5	11	21	5	0	0	2	1	0	81
(1)	.22	2.44	2.00	.44	.22	.22	.67	1.78	1.11	2.44	4.67	1.11	.00	.00	.44	.22	.00	18.00
(2)	.01	.09	.07	.02	.01	.01	.02	.06	.04	.09	.16	.04	.00	.00	.02	.01	.00	.63
3.1- 4.0	2	4	4	0	0	0	3	4	3	14	31	6	2	0	3	3	0	79
(1)	.44	.89	.89	.00	.00	.00	.67	.89	.67	3.11	6.89	1.33	.44	.00	.67	.67	.00	17.56
(2)	.02	.03	.03	.00	.00	.00	.02	.03	.02	.11	.24	.05	.02	.00	.02	.02	.00	.62
4.1- 5.0	6	8	2	0	0	0	0	6	11	13	28	8	1	2	0	2	0	87
(1)	1.33	1.78	.44	.00	.00	.00	.00	1.33	2.44	2.89	6.22	1.78	.22	.44	.00	.44	.00	19.33
(2)	.05	.06	.02	.00	.00	.00	.00	.05	.09	.10	.22	.06	.01	.02	.00	.02	.00	.68
5.1- 6.0	2	3	4	0	0	0	0	6	7	5	20	8	0	0	0	0	0	55
(1)	.44	.67	.89	.00	.00	.00	.00	1.33	1.56	1.11	4.44	1.78	.00	.00	.00	.00	.00	12.22
(2)	.02	.02	.03	.00	.00	.00	.00	.05	.05	.04	.16	.06	.00	.00	.00	.00	.00	.43

Table 2.3-39 {SSES 197' (60-m) 2001-2006 Autumn JFD}

(Page 2 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 3.51**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	2	7	7	9	7	0	0	0	0	0	32
(1)	.00	.00	.00	.00	.00	.00	.00	.44	1.56	1.56	2.00	1.56	.00	.00	.00	.00	.00	7.11
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.05	.05	.07	.05	.00	.00	.00	.00	.00	.25
8.1-10.0	0	0	0	0	0	0	1	0	0	3	0	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.22	.00	.00	.67	.00	.00	.00	.00	.00	.00	.00	.89
(2)	.00	.00	.00	.00	.00	.00	.01	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.03
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	12	34	30	17	9	9	14	35	46	67	122	38	3	2	6	6	0	450
(1)	2.67	7.56	6.67	3.78	2.00	2.00	3.11	7.78	10.22	14.89	27.11	8.44	.67	.44	1.33	1.33	.00	100.00
(2)	.09	.27	.23	.13	.07	.07	.11	.27	.36	.52	.95	.30	.02	.02	.05	.05	.00	3.51

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-39—{SSES 197' (60-m) 2001-2006 Autumn JFD - continued}

(Page 1 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 2.52**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	2	1	0	1	0	1	1	2	0	1	0	0	0	0	0	9
(1)	.00	.00	.62	.31	.00	.31	.00	.31	.31	.62	.00	.31	.00	.00	.00	.00	.00	2.79
(2)	.00	.00	.02	.01	.00	.01	.00	.01	.01	.02	.00	.01	.00	.00	.00	.00	.00	.07
1.1- 1.5	2	2	2	3	0	3	2	0	0	4	0	0	0	0	0	0	0	18
(1)	.62	.62	.62	.93	.00	.93	.62	.00	.00	1.24	.00	.00	.00	.00	.00	.00	.00	5.57
(2)	.02	.02	.02	.02	.00	.02	.02	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.14
1.6- 2.0	1	4	4	3	0	1	0	0	3	4	4	0	0	0	0	0	0	24
(1)	.31	1.24	1.24	.93	.00	.31	.00	.00	.93	1.24	1.24	.00	.00	.00	.00	.00	.00	7.43
(2)	.01	.03	.03	.02	.00	.01	.00	.00	.02	.03	.03	.00	.00	.00	.00	.00	.00	.19
2.1- 3.0	2	2	6	1	0	1	2	1	3	8	16	3	1	0	0	3	0	49
(1)	.62	.62	1.86	.31	.00	.31	.62	.31	.93	2.48	4.95	.93	.31	.00	.00	.93	.00	15.17
(2)	.02	.02	.05	.01	.00	.01	.02	.01	.02	.06	.12	.02	.01	.00	.00	.02	.00	.38
3.1- 4.0	2	5	4	0	0	0	0	3	1	5	24	4	2	1	3	0	0	54
(1)	.62	1.55	1.24	.00	.00	.00	.00	.93	.31	1.55	7.43	1.24	.62	.31	.93	.00	.00	16.72
(2)	.02	.04	.03	.00	.00	.00	.00	.02	.01	.04	.19	.03	.02	.01	.02	.00	.00	.42
4.1- 5.0	3	8	3	0	0	0	3	1	4	4	19	12	4	4	2	6	0	73
(1)	.93	2.48	.93	.00	.00	.00	.93	.31	1.24	1.24	5.88	3.72	1.24	1.24	.62	1.86	.00	22.60
(2)	.02	.06	.02	.00	.00	.00	.02	.01	.03	.03	.15	.09	.03	.03	.02	.05	.00	.57
5.1- 6.0	1	4	0	0	0	0	1	1	2	3	13	8	7	2	0	1	0	43
(1)	.31	1.24	.00	.00	.00	.00	.31	.31	.62	.93	4.02	2.48	2.17	.62	.00	.31	.00	13.31
(2)	.01	.03	.00	.00	.00	.00	.01	.01	.02	.02	.10	.06	.05	.02	.00	.01	.00	.34

Table 2.3-39—{SSES 197' (60-m) 2001-2006 Autumn JFD - continued}

(Page 2 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 2.52**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	1	4	0	2	10	17	3	0	0	0	0	37
(1)	.00	.00	.00	.00	.00	.00	.31	1.24	.00	.62	3.10	5.26	.93	.00	.00	.00	.00	11.46
(2)	.00	.00	.00	.00	.00	.00	.01	.03	.00	.02	.08	.13	.02	.00	.00	.00	.00	.29
8.1-10.0	0	0	0	0	0	0	0	0	0	4	5	4	0	0	1	0	0	14
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.24	1.55	1.24	.00	.00	.31	.00	.00	4.33
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.04	.03	.00	.00	.01	.00	.00	.11
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.31	.00	.00	.00	.31	.00	.62
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.01	.00	.02
ALL SPEEDS	11	25	21	8	0	6	9	11	14	36	91	50	17	7	6	11	0	323
(1)	3.41	7.74	6.50	2.48	.00	1.86	2.79	3.41	4.33	11.15	28.17	15.48	5.26	2.17	1.86	3.41	.00	100.00
(2)	.09	.19	.16	.06	.00	.05	.07	.09	.11	.28	.71	.39	.13	.05	.05	.09	.00	2.52

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-39—{SSES 197' (60-m) 2001-2006 Autumn JFD - continued}
(Page 1 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS C — CLASS FREQUENCY (PERCENT) = 3.86

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	1	1	1	1	1	2	0	0	0	0	1	0	0	0	8
(1)	.00	.00	.00	.20	.20	.20	.20	.20	.40	.00	.00	.00	.00	.20	.00	.00	.00	1.62
(2)	.00	.00	.00	.01	.01	.01	.01	.01	.02	.00	.00	.00	.00	.01	.00	.00	.00	.06
1.1- 1.5	4	1	3	4	3	0	2	2	5	4	2	0	0	0	0	0	0	30
(1)	.81	.20	.61	.81	.61	.00	.40	.40	1.01	.81	.40	.00	.00	.00	.00	.00	.00	6.06
(2)	.03	.01	.02	.03	.02	.00	.02	.02	.04	.03	.02	.00	.00	.00	.00	.00	.00	.23
1.6- 2.0	1	4	4	3	1	2	1	3	3	9	5	2	0	1	0	0	0	39
(1)	.20	.81	.81	.61	.20	.40	.20	.61	.61	1.82	1.01	.40	.00	.20	.00	.00	.00	7.88
(2)	.01	.03	.03	.02	.01	.02	.01	.02	.02	.07	.04	.02	.00	.01	.00	.00	.00	.30
2.1- 3.0	2	11	7	3	0	2	1	2	2	9	27	7	1	0	1	0	0	75
(1)	.40	2.22	1.41	.61	.00	.40	.20	.40	.40	1.82	5.45	1.41	.20	.00	.20	.00	.00	15.15
(2)	.02	.09	.05	.02	.00	.02	.01	.02	.02	.07	.21	.05	.01	.00	.01	.00	.00	.58
3.1- 4.0	3	8	9	0	0	1	3	1	4	2	32	11	4	5	3	4	0	90
(1)	.61	1.62	1.82	.00	.00	.20	.61	.20	.81	.40	6.46	2.22	.81	1.01	.61	.81	.00	18.18
(2)	.02	.06	.07	.00	.00	.01	.02	.01	.03	.02	.25	.09	.03	.04	.02	.03	.00	.70
4.1- 5.0	11	12	1	0	0	0	1	6	8	7	22	14	4	8	2	6	0	102
(1)	2.22	2.42	.20	.00	.00	.00	.20	1.21	1.62	1.41	4.44	2.83	.81	1.62	.40	1.21	.00	20.61
(2)	.09	.09	.01	.00	.00	.00	.01	.05	.06	.05	.17	.11	.03	.06	.02	.05	.00	.80
5.1- 6.0	12	11	0	1	0	0	2	2	4	5	11	20	8	0	0	5	0	81
(1)	2.42	2.22	.00	.20	.00	.00	.40	.40	.81	1.01	2.22	4.04	1.62	.00	.00	1.01	.00	16.36
(2)	.09	.09	.00	.01	.00	.00	.02	.02	.03	.04	.09	.16	.06	.00	.00	.04	.00	.63

Table 2.3-39—{SSES 197' (60-m) 2001-2006 Autumn JFD - continued}

(Page 2 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 3.86**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	2	4	0	0	0	0	1	2	4	7	6	21	4	0	1	1	0	53
(1)	.40	.81	.00	.00	.00	.00	.20	.40	.81	1.41	1.21	4.24	.81	.00	.20	.20	.00	10.71
(2)	.02	.03	.00	.00	.00	.00	.01	.02	.03	.05	.05	.16	.03	.00	.01	.01	.00	.41
8.1-10.0	0	0	0	0	0	0	0	0	0	1	1	9	0	0	0	2	0	13
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20	.20	1.82	.00	.00	.00	.40	.00	2.63
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.07	.00	.00	.00	.02	.00	.10
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.81	.00	.00	.00	.00	.00	.81
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.03
ALL SPEEDS	35	51	24	12	5	6	12	19	32	44	106	88	21	15	7	18	0	495
(1)	7.07	10.30	4.85	2.42	1.01	1.21	2.42	3.84	6.46	8.89	21.41	17.78	4.24	3.03	1.41	3.64	.00	100.00
(2)	.27	.40	.19	.09	.04	.05	.09	.15	.25	.34	.83	.69	.16	.12	.05	.14	.00	3.86

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-39—{SSES 197' (60-m) 2001-2006 Autumn JFD - continued}

(Page 1 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS D — CLASS FREQUENCY (PERCENT) = 35.69

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	1	1	0	0	1	0	0	0	0	1	0	0	0	1	0	0	5
(1)	.00	.02	.02	.00	.00	.02	.00	.00	.00	.00	.02	.00	.00	.00	.02	.00	.00	.11
(2)	.00	.01	.01	.00	.00	.01	.00	.00	.00	.00	.01	.00	.00	.00	.01	.00	.00	.04
.5- 1.0	6	14	51	44	29	31	20	24	25	22	6	4	2	2	1	3	0	284
(1)	.13	.31	1.11	.96	.63	.68	.44	.52	.55	.48	.13	.09	.04	.04	.02	.07	.00	6.20
(2)	.05	.11	.40	.34	.23	.24	.16	.19	.19	.17	.05	.03	.02	.02	.01	.02	.00	2.21
1.1- 1.5	15	50	57	25	19	11	17	22	38	35	39	8	2	2	2	6	0	348
(1)	.33	1.09	1.25	.55	.42	.24	.37	.48	.83	.76	.85	.17	.04	.04	.04	.13	.00	7.60
(2)	.12	.39	.44	.19	.15	.09	.13	.17	.30	.27	.30	.06	.02	.02	.02	.05	.00	2.71
1.6- 2.0	16	42	39	7	15	12	12	16	28	44	43	16	5	2	2	4	0	303
(1)	.35	.92	.85	.15	.33	.26	.26	.35	.61	.96	.94	.35	.11	.04	.04	.09	.00	6.62
(2)	.12	.33	.30	.05	.12	.09	.09	.12	.22	.34	.34	.12	.04	.02	.02	.03	.00	2.36
2.1- 3.0	42	96	57	19	29	19	45	28	18	45	102	56	30	20	11	23	0	640
(1)	.92	2.10	1.25	.42	.63	.42	.98	.61	.39	.98	2.23	1.22	.66	.44	.24	.50	.00	13.98
(2)	.33	.75	.44	.15	.23	.15	.35	.22	.14	.35	.80	.44	.23	.16	.09	.18	.00	4.99
3.1- 4.0	81	125	75	9	16	26	37	42	31	32	79	67	44	47	42	63	0	816
(1)	1.77	2.73	1.64	.20	.35	.57	.81	.92	.68	.70	1.73	1.46	.96	1.03	.92	1.38	.00	17.82
(2)	.63	.97	.58	.07	.12	.20	.29	.33	.24	.25	.62	.52	.34	.37	.33	.49	.00	6.36
4.1- 5.0	72	107	47	11	5	13	36	33	36	34	58	100	65	48	86	82	0	833
(1)	1.57	2.34	1.03	.24	.11	.28	.79	.72	.79	.74	1.27	2.18	1.42	1.05	1.88	1.79	.00	18.20
(2)	.56	.83	.37	.09	.04	.10	.28	.26	.28	.27	.45	.78	.51	.37	.67	.64	.00	6.49
5.1- 6.0	43	65	14	5	1	3	23	19	22	35	38	87	56	50	72	53	0	586
(1)	.94	1.42	.31	.11	.02	.07	.50	.42	.48	.76	.83	1.90	1.22	1.09	1.57	1.16	.00	12.80
(2)	.34	.51	.11	.04	.01	.02	.18	.15	.17	.27	.30	.68	.44	.39	.56	.41	.00	4.57

Table 2.3-39—{SSES 197' (60-m) 2001-2006 Autumn JFD - continued}

(Page 2 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 35.69**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	17	20	5	2	0	1	16	24	10	38	42	125	70	39	62	32	0	503
(1)	.37	.44	.11	.04	.00	.02	.35	.52	.22	.83	.92	2.73	1.53	.85	1.35	.70	.00	10.99
(2)	.13	.16	.04	.02	.00	.01	.12	.19	.08	.30	.33	.97	.55	.30	.48	.25	.00	3.92
8.1-10.0	0	0	1	0	0	0	8	13	7	13	9	66	16	19	6	3	0	161
(1)	.00	.00	.02	.00	.00	.00	.17	.28	.15	.28	.20	1.44	.35	.42	.13	.07	.00	3.52
(2)	.00	.00	.01	.00	.00	.00	.06	.10	.05	.10	.07	.51	.12	.15	.05	.02	.00	1.26
10.1-40.3	0	0	0	3	0	0	2	6	7	3	0	58	14	5	1	0	0	99
(1)	.00	.00	.00	.07	.00	.00	.04	.13	.15	.07	.00	1.27	.31	.11	.02	.00	.00	2.16
(2)	.00	.00	.00	.02	.00	.00	.02	.05	.05	.02	.00	.45	.11	.04	.01	.00	.00	.77
ALL SPEEDS	292	520	347	125	114	117	216	227	222	301	417	587	304	234	286	269	0	4578
(1)	6.38	11.36	7.58	2.73	2.49	2.56	4.72	4.96	4.85	6.57	9.11	12.82	6.64	5.11	6.25	5.88	.00	100.00
(2)	2.28	4.05	2.71	.97	.89	.91	1.68	1.77	1.73	2.35	3.25	4.58	2.37	1.82	2.23	2.10	.00	35.69

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-39—{SSES 197' (60-m) 2001-2006 Autumn JFD - continued}

(Page 1 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS E — CLASS FREQUENCY (PERCENT) = 31.70

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
(2)	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
.2- .4	0	0	2	4	1	1	1	1	2	1	1	0	0	0	0	0	0	14
(1)	.00	.00	.05	.10	.02	.02	.02	.02	.05	.02	.02	.00	.00	.00	.00	.00	.00	.34
(2)	.00	.00	.02	.03	.01	.01	.01	.01	.02	.01	.01	.00	.00	.00	.00	.00	.00	.11
.5- 1.0	18	55	69	68	59	62	59	41	36	35	20	6	6	0	0	4	0	538
(1)	.44	1.35	1.70	1.67	1.45	1.52	1.45	1.01	.89	.86	.49	.15	.15	.00	.00	.10	.00	13.23
(2)	.14	.43	.54	.53	.46	.48	.46	.32	.28	.27	.16	.05	.05	.00	.00	.03	.00	4.19
1.1- 1.5	40	89	92	27	31	18	24	53	43	43	34	10	5	0	1	11	0	521
(1)	.98	2.19	2.26	.66	.76	.44	.59	1.30	1.06	1.06	.84	.25	.12	.00	.02	.27	.00	12.81
(2)	.31	.69	.72	.21	.24	.14	.19	.41	.34	.34	.27	.08	.04	.00	.01	.09	.00	4.06
1.6- 2.0	45	136	72	31	18	8	14	19	28	31	53	33	8	1	2	2	0	501
(1)	1.11	3.34	1.77	.76	.44	.20	.34	.47	.69	.76	1.30	.81	.20	.02	.05	.05	.00	12.32
(2)	.35	1.06	.56	.24	.14	.06	.11	.15	.22	.24	.41	.26	.06	.01	.02	.02	.00	3.91
2.1- 3.0	73	216	92	34	28	18	14	40	48	56	75	47	21	16	15	18	0	811
(1)	1.80	5.31	2.26	.84	.69	.44	.34	.98	1.18	1.38	1.84	1.16	.52	.39	.37	.44	.00	19.95
(2)	.57	1.68	.72	.27	.22	.14	.11	.31	.37	.44	.58	.37	.16	.12	.12	.14	.00	6.32
3.1- 4.0	41	106	60	17	14	16	15	28	49	88	74	57	25	13	19	17	0	639
(1)	1.01	2.61	1.48	.42	.34	.39	.37	.69	1.21	2.16	1.82	1.40	.61	.32	.47	.42	.00	15.72
(2)	.32	.83	.47	.13	.11	.12	.12	.22	.38	.69	.58	.44	.19	.10	.15	.13	.00	4.98
4.1- 5.0	19	68	46	5	6	8	16	24	38	80	57	59	17	6	22	13	0	484
(1)	.47	1.67	1.13	.12	.15	.20	.39	.59	.93	1.97	1.40	1.45	.42	.15	.54	.32	.00	11.90
(2)	.15	.53	.36	.04	.05	.06	.12	.19	.30	.62	.44	.46	.13	.05	.17	.10	.00	3.77
5.1- 6.0	5	24	20	3	0	2	11	12	18	44	28	63	2	2	8	5	0	247
(1)	.12	.59	.49	.07	.00	.05	.27	.30	.44	1.08	.69	1.55	.05	.05	.20	.12	.00	6.07
(2)	.04	.19	.16	.02	.00	.02	.09	.09	.14	.34	.22	.49	.02	.02	.06	.04	.00	1.93

Table 2.3-39—{SSES 197' (60-m) 2001-2006 Autumn JFD - continued}

(Page 2 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 31.70**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	21	9	3	4	2	8	21	25	37	8	52	4	0	2	3	0	199
(1)	.00	.52	.22	.07	.10	.05	.20	.52	.61	.91	.20	1.28	.10	.00	.05	.07	.00	4.89
(2)	.00	.16	.07	.02	.03	.02	.06	.16	.19	.29	.06	.41	.03	.00	.02	.02	.00	1.55
8.1-10.0	0	1	9	2	0	7	6	6	19	20	3	6	0	0	0	0	0	79
(1)	.00	.02	.22	.05	.00	.17	.15	.15	.47	.49	.07	.15	.00	.00	.00	.00	.00	1.94
(2)	.00	.01	.07	.02	.00	.05	.05	.05	.15	.16	.02	.05	.00	.00	.00	.00	.00	.62
10.1-40.3	0	5	3	3	1	1	4	7	5	1	1	1	0	0	0	0	0	32
(1)	.00	.12	.07	.07	.02	.02	.10	.17	.12	.02	.02	.02	.00	.00	.00	.00	.00	.79
(2)	.00	.04	.02	.02	.01	.01	.03	.05	.04	.01	.01	.01	.00	.00	.00	.00	.00	.25
ALL SPEEDS	241	721	474	198	162	143	172	252	311	436	354	334	88	38	69	73	0	4066
(1)	5.93	17.73	11.66	4.87	3.98	3.52	4.23	6.20	7.65	10.72	8.71	8.21	2.16	.93	1.70	1.80	.00	100.00
(2)	1.88	5.62	3.70	1.54	1.26	1.11	1.34	1.96	2.42	3.40	2.76	2.60	.69	.30	.54	.57	.00	31.70

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-39—{SSES 197' (60-m) 2001-2006 Autumn JFD - continued}

(Page 1 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 13.25

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06
(2)	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
.2- .4	0	0	1	2	3	1	0	0	0	0	0	0	0	0	0	0	0	7
(1)	.00	.00	.06	.12	.18	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.41
(2)	.00	.00	.01	.02	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
.5- 1.0	5	26	60	41	35	29	24	11	14	4	2	1	1	1	3	1	0	258
(1)	.29	1.53	3.53	2.41	2.06	1.71	1.41	.65	.82	.24	.12	.06	.06	.06	.18	.06	.00	15.18
(2)	.04	.20	.47	.32	.27	.23	.19	.09	.11	.03	.02	.01	.01	.01	.02	.01	.00	2.01
1.1- 1.5	13	104	95	27	16	16	22	11	18	14	9	4	1	0	0	5	0	355
(1)	.76	6.12	5.59	1.59	.94	.94	1.29	.65	1.06	.82	.53	.24	.06	.00	.00	.29	.00	20.88
(2)	.10	.81	.74	.21	.12	.12	.17	.09	.14	.11	.07	.03	.01	.00	.00	.04	.00	2.77
1.6- 2.0	48	203	45	7	6	4	3	7	17	18	8	5	3	2	3	3	0	382
(1)	2.82	11.94	2.65	.41	.35	.24	.18	.41	1.00	1.06	.47	.29	.18	.12	.18	.18	.00	22.47
(2)	.37	1.58	.35	.05	.05	.03	.02	.05	.13	.14	.06	.04	.02	.02	.02	.02	.00	2.98
2.1- 3.0	89	253	30	10	7	1	1	3	12	31	34	1	5	4	1	3	0	485
(1)	5.24	14.88	1.76	.59	.41	.06	.06	.18	.71	1.82	2.00	.06	.29	.24	.06	.18	.00	28.53
(2)	.69	1.97	.23	.08	.05	.01	.01	.02	.09	.24	.27	.01	.04	.03	.01	.02	.00	3.78
3.1- 4.0	15	35	14	1	0	1	0	3	11	25	20	12	0	0	1	1	0	139
(1)	.88	2.06	.82	.06	.00	.06	.00	.18	.65	1.47	1.18	.71	.00	.00	.06	.06	.00	8.18
(2)	.12	.27	.11	.01	.00	.01	.00	.02	.09	.19	.16	.09	.00	.00	.01	.01	.00	1.08
4.1- 5.0	1	2	0	0	0	1	0	1	4	10	9	23	0	0	1	0	0	52
(1)	.06	.12	.00	.00	.00	.06	.00	.06	.24	.59	.53	1.35	.00	.00	.06	.00	.00	3.06
(2)	.01	.02	.00	.00	.00	.01	.00	.01	.03	.08	.07	.18	.00	.00	.01	.00	.00	.41
5.1- 6.0	1	0	0	0	0	0	0	0	0	2	3	8	0	0	0	0	0	14
(1)	.06	.00	.00	.00	.00	.00	.00	.00	.00	.12	.18	.47	.00	.00	.00	.00	.00	.82
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.06	.00	.00	.00	.00	.00	.11

Table 2.3-39—{SSES 197' (60-m) 2001-2006 Autumn JFD - continued}

(Page 2 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 13.25**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	1	0	0	0	6	0	0	0	0	0	7
(1)	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00	.00	.35	.00	.00	.00	.00	.00	.41
(2)	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	172	623	246	88	67	53	50	37	76	104	85	60	10	7	9	13	0	1700
(1)	10.12	36.65	14.47	5.18	3.94	3.12	2.94	2.18	4.47	6.12	5.00	3.53	.59	.41	.53	.76	.00	100.00
(2)	1.34	4.86	1.92	.69	.52	.41	.39	.29	.59	.81	.66	.47	.08	.05	.07	.10	.00	13.25

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-39—{SSES 197' (60-m) 2001-2006 Autumn JFD - continued}

(Page 1 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 9.48**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4
(1)	.00	.08	.08	.00	.16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.33
(2)	.00	.01	.01	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
.5- 1.0	3	15	35	25	26	15	16	7	7	5	0	0	0	0	0	0	0	154
(1)	.25	1.23	2.88	2.06	2.14	1.23	1.32	.58	.58	.41	.00	.00	.00	.00	.00	.00	.00	12.66
(2)	.02	.12	.27	.19	.20	.12	.12	.05	.05	.04	.00	.00	.00	.00	.00	.00	.00	1.20
1.1- 1.5	15	92	87	36	29	16	19	15	18	10	3	2	0	3	1	0	0	346
(1)	1.23	7.57	7.15	2.96	2.38	1.32	1.56	1.23	1.48	.82	.25	.16	.00	.25	.08	.00	.00	28.45
(2)	.12	.72	.68	.28	.23	.12	.15	.12	.14	.08	.02	.02	.00	.02	.01	.00	.00	2.70
1.6- 2.0	33	171	74	15	3	4	5	6	13	7	5	4	1	0	2	0	0	343
(1)	2.71	14.06	6.09	1.23	.25	.33	.41	.49	1.07	.58	.41	.33	.08	.00	.16	.00	.00	28.21
(2)	.26	1.33	.58	.12	.02	.03	.04	.05	.10	.05	.04	.03	.01	.00	.02	.00	.00	2.67
2.1- 3.0	64	109	27	6	1	4	4	5	24	27	23	1	1	1	6	1	0	304
(1)	5.26	8.96	2.22	.49	.08	.33	.33	.41	1.97	2.22	1.89	.08	.08	.08	.49	.08	.00	25.00
(2)	.50	.85	.21	.05	.01	.03	.03	.04	.19	.21	.18	.01	.01	.01	.05	.01	.00	2.37
3.1- 4.0	8	14	2	0	0	1	0	0	2	8	11	4	0	0	1	0	0	51
(1)	.66	1.15	.16	.00	.00	.08	.00	.00	.16	.66	.90	.33	.00	.00	.08	.00	.00	4.19
(2)	.06	.11	.02	.00	.00	.01	.00	.00	.02	.06	.09	.03	.00	.00	.01	.00	.00	.40
4.1- 5.0	0	0	0	0	1	0	0	0	0	2	4	5	0	0	0	0	0	12
(1)	.00	.00	.00	.00	.08	.00	.00	.00	.00	.16	.33	.41	.00	.00	.00	.00	.00	.99
(2)	.00	.00	.00	.00	.01	.00	.00	.00	.00	.02	.03	.04	.00	.00	.00	.00	.00	.09
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16	.00	.00	.00	.00	.00	.16
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02

Table 2.3-39—{SSES 197' (60-m) 2001-2006 Autumn JFD - continued}

(Page 2 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 9.48**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	123	402	226	82	62	40	44	33	64	59	46	18	2	4	10	1	0	1216
(1)	10.12	33.06	18.59	6.74	5.10	3.29	3.62	2.71	5.26	4.85	3.78	1.48	.16	.33	.82	.08	.00	100.00
(2)	.96	3.13	1.76	.64	.48	.31	.34	.26	.50	.46	.36	.14	.02	.03	.08	.01	.00	9.48

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-39—{SSES 197' (60-m) 2001-2006 Autumn JFD - continued}

(Page 1 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
(2)	.00	.00	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.2- .4	0	2	5	6	6	3	1	1	2	1	2	0	0	0	1	0	0	30
(1)	.00	.02	.04	.05	.05	.02	.01	.01	.02	.01	.02	.00	.00	.00	.01	.00	.00	.23
(2)	.00	.02	.04	.05	.05	.02	.01	.01	.02	.01	.02	.00	.00	.00	.01	.00	.00	.23
.5- 1.0	32	110	219	183	153	142	122	86	88	70	29	12	9	4	5	8	0	1272
(1)	.25	.86	1.71	1.43	1.19	1.11	.95	.67	.69	.55	.23	.09	.07	.03	.04	.06	.00	9.92
(2)	.25	.86	1.71	1.43	1.19	1.11	.95	.67	.69	.55	.23	.09	.07	.03	.04	.06	.00	9.92
1.1- 1.5	90	340	340	128	101	67	87	105	128	114	91	24	8	5	4	22	0	1654
(1)	.70	2.65	2.65	1.00	.79	.52	.68	.82	1.00	.89	.71	.19	.06	.04	.03	.17	.00	12.89
(2)	.70	2.65	2.65	1.00	.79	.52	.68	.82	1.00	.89	.71	.19	.06	.04	.03	.17	.00	12.89
1.6- 2.0	144	566	243	72	45	33	39	57	96	121	126	64	17	6	9	9	0	1647
(1)	1.12	4.41	1.89	.56	.35	.26	.30	.44	.75	.94	.98	.50	.13	.05	.07	.07	.00	12.84
(2)	1.12	4.41	1.89	.56	.35	.26	.30	.44	.75	.94	.98	.50	.13	.05	.07	.07	.00	12.84
2.1- 3.0	273	698	228	75	66	46	70	87	112	187	298	120	59	41	36	49	0	2445
(1)	2.13	5.44	1.78	.58	.51	.36	.55	.68	.87	1.46	2.32	.94	.46	.32	.28	.38	.00	19.06
(2)	2.13	5.44	1.78	.58	.51	.36	.55	.68	.87	1.46	2.32	.94	.46	.32	.28	.38	.00	19.06
3.1- 4.0	152	297	168	27	30	45	58	81	101	174	271	161	77	66	72	88	0	1868
(1)	1.18	2.32	1.31	.21	.23	.35	.45	.63	.79	1.36	2.11	1.26	.60	.51	.56	.69	.00	14.56
(2)	1.18	2.32	1.31	.21	.23	.35	.45	.63	.79	1.36	2.11	1.26	.60	.51	.56	.69	.00	14.56
4.1- 5.0	112	205	99	16	12	22	56	71	101	150	197	221	91	68	113	109	0	1643
(1)	.87	1.60	.77	.12	.09	.17	.44	.55	.79	1.17	1.54	1.72	.71	.53	.88	.85	.00	12.81
(2)	.87	1.60	.77	.12	.09	.17	.44	.55	.79	1.17	1.54	1.72	.71	.53	.88	.85	.00	12.81
5.1- 6.0	64	107	38	9	1	5	37	40	53	94	113	196	73	54	80	64	0	1028
(1)	.50	.83	.30	.07	.01	.04	.29	.31	.41	.73	.88	1.53	.57	.42	.62	.50	.00	8.01
(2)	.50	.83	.30	.07	.01	.04	.29	.31	.41	.73	.88	1.53	.57	.42	.62	.50	.00	8.01

Table 2.3-39—{SSES 197' (60-m) 2001-2006 Autumn JFD - continued}

(Page 2 of 2)

SSES FALL 01-06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	19	45	14	5	4	3	26	54	46	91	75	228	81	39	65	36	0	831
(1)	.15	.35	.11	.04	.03	.02	.20	.42	.36	.71	.58	1.78	.63	.30	.51	.28	.00	6.48
(2)	.15	.35	.11	.04	.03	.02	.20	.42	.36	.71	.58	1.78	.63	.30	.51	.28	.00	6.48
8.1-10.0	0	1	10	2	0	7	15	19	26	41	18	85	16	19	7	5	0	271
(1)	.00	.01	.08	.02	.00	.05	.12	.15	.20	.32	.14	.66	.12	.15	.05	.04	.00	2.11
(2)	.00	.01	.08	.02	.00	.05	.12	.15	.20	.32	.14	.66	.12	.15	.05	.04	.00	2.11
10.1-40.3	0	5	3	6	1	1	6	13	12	4	1	64	14	5	1	1	0	137
(1)	.00	.04	.02	.05	.01	.01	.05	.10	.09	.03	.01	.50	.11	.04	.01	.01	.00	1.07
(2)	.00	.04	.02	.05	.01	.01	.05	.10	.09	.03	.01	.50	.11	.04	.01	.01	.00	1.07
ALL SPEEDS	886	2376	1368	530	419	374	517	614	765	1047	1221	1175	445	307	393	391	0	12828
(1)	6.91	18.52	10.66	4.13	3.27	2.92	4.03	4.79	5.96	8.16	9.52	9.16	3.47	2.39	3.06	3.05	.00	100.00
(2)	6.91	18.52	10.66	4.13	3.27	2.92	4.03	4.79	5.96	8.16	9.52	9.16	3.47	2.39	3.06	3.05	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-40 {SSES 33' (10-m) 2001-2006 January JFD}

(Page 1 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 1.84**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.1- 1.5	0	0	0	0	1	1	1	2	0	1	1	0	0	0	0	0	0	7
(1)	.00	.00	.00	.00	1.22	1.22	1.22	2.44	.00	1.22	1.22	.00	.00	.00	.00	.00	.00	8.54
(2)	.00	.00	.00	.00	.02	.02	.02	.04	.00	.02	.02	.00	.00	.00	.00	.00	.00	.16
1.6- 2.0	0	0	0	0	1	0	0	1	4	4	0	0	0	0	0	0	0	10
(1)	.00	.00	.00	.00	1.22	.00	.00	1.22	4.88	4.88	.00	.00	.00	.00	.00	.00	.00	12.20
(2)	.00	.00	.00	.00	.02	.00	.00	.02	.09	.09	.00	.00	.00	.00	.00	.00	.00	.22
2.1- 3.0	0	0	0	0	0	0	1	0	5	7	8	2	1	1	0	0	0	25
(1)	.00	.00	.00	.00	.00	.00	1.22	.00	6.10	8.54	9.76	2.44	1.22	1.22	.00	.00	.00	30.49
(2)	.00	.00	.00	.00	.00	.00	.02	.00	.11	.16	.18	.04	.02	.02	.00	.00	.00	.56
3.1- 4.0	0	0	0	0	0	0	0	0	0	6	11	1	1	0	0	0	0	19
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.32	13.41	1.22	1.22	.00	.00	.00	.00	23.17
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13	.25	.02	.02	.00	.00	.00	.00	.43
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	4	2	1	0	0	0	0	7
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.88	2.44	1.22	.00	.00	.00	.00	8.54
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.04	.02	.00	.00	.00	.00	.16
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	5	7	0	0	0	0	0	12
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.10	8.54	.00	.00	.00	.00	.00	14.63
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.16	.00	.00	.00	.00	.00	.27

Table 2.3-40 {SSES 33' (10-m) 2001-2006 January JFD}

(Page 2 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 1.84**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.44	.00	.00	.00	.00	.00	2.44
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00	.00	.04
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	0	0	0	2	1	2	3	9	18	29	14	3	1	0	0	0	82
(1)	.00	.00	.00	.00	2.44	1.22	2.44	3.66	10.98	21.95	35.37	17.07	3.66	1.22	.00	.00	.00	100.00
(2)	.00	.00	.00	.00	.04	.02	.04	.07	.20	.40	.65	.31	.07	.02	.00	.00	.00	1.84

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-40—{SSES 33' (10-m) 2001-2006 January JFD - continued}

(Page 1 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 1.66**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.35	.00	.00	1.35
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02
1.1- 1.5	0	0	0	0	1	0	0	2	0	1	0	1	0	0	0	0	0	5
(1)	.00	.00	.00	.00	1.35	.00	.00	2.70	.00	1.35	.00	1.35	.00	.00	.00	.00	.00	6.76
(2)	.00	.00	.00	.00	.02	.00	.00	.04	.00	.02	.00	.02	.00	.00	.00	.00	.00	.11
1.6- 2.0	0	1	1	0	0	1	0	2	1	2	2	0	0	1	0	0	0	11
(1)	.00	1.35	1.35	.00	.00	1.35	.00	2.70	1.35	2.70	2.70	.00	.00	1.35	.00	.00	.00	14.86
(2)	.00	.02	.02	.00	.00	.02	.00	.04	.02	.04	.04	.00	.00	.02	.00	.00	.00	.25
2.1- 3.0	0	0	0	0	0	0	0	0	1	1	2	1	2	0	1	0	0	8
(1)	.00	.00	.00	.00	.00	.00	.00	.00	1.35	1.35	2.70	1.35	2.70	.00	1.35	.00	.00	10.81
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.04	.02	.04	.00	.02	.00	.00	.18
3.1- 4.0	1	4	2	0	0	0	0	0	0	2	4	1	0	3	0	1	0	18
(1)	1.35	5.41	2.70	.00	.00	.00	.00	.00	.00	2.70	5.41	1.35	.00	4.05	.00	1.35	.00	24.32
(2)	.02	.09	.04	.00	.00	.00	.00	.00	.00	.04	.09	.02	.00	.07	.00	.02	.00	.40
4.1- 5.0	1	3	0	0	0	0	0	0	0	0	7	6	1	2	0	0	0	20
(1)	1.35	4.05	.00	.00	.00	.00	.00	.00	.00	.00	9.46	8.11	1.35	2.70	.00	.00	.00	27.03
(2)	.02	.07	.00	.00	.00	.00	.00	.00	.00	.00	.16	.13	.02	.04	.00	.00	.00	.45
5.1- 6.0	0	1	0	0	0	0	0	0	0	0	4	3	1	0	1	0	0	10
(1)	.00	1.35	.00	.00	.00	.00	.00	.00	.00	.00	5.41	4.05	1.35	.00	1.35	.00	.00	13.51
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.09	.07	.02	.00	.02	.00	.00	.22

Table 2.3-40—{SSES 33' (10-m) 2001-2006 January JFD - continued}

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SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 1.66**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.35	.00	.00	.00	.00	.00	1.35
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	2	9	3	0	1	1	0	4	2	6	19	13	4	6	3	1	0	74
(1)	2.70	12.16	4.05	.00	1.35	1.35	.00	5.41	2.70	8.11	25.68	17.57	5.41	8.11	4.05	1.35	.00	100.00
(2)	.04	.20	.07	.00	.02	.02	.00	.09	.04	.13	.43	.29	.09	.13	.07	.02	.00	1.66

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-40—{SSES 33' (10-m) 2001-2006 January JFD - continued}

(Page 1 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 2.49**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	1	2	2	0	1	0	0	0	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.90	1.80	1.80	.00	.90	.00	.00	.00	.00	.00	.00	.00	.00	5.41
(2)	.00	.00	.00	.00	.02	.04	.04	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.13
1.1- 1.5	0	0	0	0	0	2	0	0	3	2	1	0	0	0	0	0	0	8
(1)	.00	.00	.00	.00	.00	1.80	.00	.00	2.70	1.80	.90	.00	.00	.00	.00	.00	.00	7.21
(2)	.00	.00	.00	.00	.00	.04	.00	.00	.07	.04	.02	.00	.00	.00	.00	.00	.00	.18
1.6- 2.0	0	0	0	0	1	0	0	2	2	1	2	0	0	1	0	1	0	10
(1)	.00	.00	.00	.00	.90	.00	.00	1.80	1.80	.90	1.80	.00	.00	.90	.00	.90	.00	9.01
(2)	.00	.00	.00	.00	.02	.00	.00	.04	.04	.02	.04	.00	.00	.02	.00	.02	.00	.22
2.1- 3.0	1	1	2	0	0	0	0	1	1	0	6	2	1	1	1	0	0	17
(1)	.90	.90	1.80	.00	.00	.00	.00	.90	.90	.00	5.41	1.80	.90	.90	.90	.00	.00	15.32
(2)	.02	.02	.04	.00	.00	.00	.00	.02	.02	.00	.13	.04	.02	.02	.02	.00	.00	.38
3.1- 4.0	4	3	0	0	0	0	0	0	0	1	5	4	0	2	1	1	0	21
(1)	3.60	2.70	.00	.00	.00	.00	.00	.00	.00	.90	4.50	3.60	.00	1.80	.90	.90	.00	18.92
(2)	.09	.07	.00	.00	.00	.00	.00	.00	.00	.02	.11	.09	.00	.04	.02	.02	.00	.47
4.1- 5.0	3	1	0	0	0	0	0	0	0	0	16	5	0	2	3	3	0	33
(1)	2.70	.90	.00	.00	.00	.00	.00	.00	.00	.00	14.41	4.50	.00	1.80	2.70	2.70	.00	29.73
(2)	.07	.02	.00	.00	.00	.00	.00	.00	.00	.00	.36	.11	.00	.04	.07	.07	.00	.74
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	3	5	4	0	0	2	0	14
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.70	4.50	3.60	.00	.00	1.80	.00	12.61
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.11	.09	.00	.00	.04	.00	.31

Table 2.3-40—{SSES 33' (10-m) 2001-2006 January JFD - continued}
(Page 2 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS C — CLASS FREQUENCY (PERCENT) = 2.49

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.90	.90	.00	.00	.00	.00	1.80
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.04
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	8	5	2	0	2	4	2	3	7	4	33	17	6	6	5	7	0	111
(1)	7.21	4.50	1.80	.00	1.80	3.60	1.80	2.70	6.31	3.60	29.73	15.32	5.41	5.41	4.50	6.31	.00	100.00
(2)	.18	.11	.04	.00	.04	.09	.04	.07	.16	.09	.74	.38	.13	.13	.11	.16	.00	2.49

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIO

Table 2.3-40—{SSES 33' (10-m) 2001-2006 January JFD - continued}

(Page 1 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 50.31**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	2	5	0	0	1	2	1	1	0	0	1	1	0	0	15
(1)	.00	.00	.04	.09	.22	.00	.00	.04	.09	.04	.04	.00	.00	.04	.04	.00	.00	.67
(2)	.00	.00	.02	.04	.11	.00	.00	.02	.04	.02	.02	.00	.00	.02	.02	.00	.00	.34
.5- 1.0	3	7	16	26	34	19	18	7	17	11	4	7	0	1	2	4	0	176
(1)	.13	.31	.71	1.16	1.51	.85	.80	.31	.76	.49	.18	.31	.00	.04	.09	.18	.00	7.84
(2)	.07	.16	.36	.58	.76	.43	.40	.16	.38	.25	.09	.16	.00	.02	.04	.09	.00	3.94
1.1- 1.5	10	31	29	21	9	19	33	25	28	23	19	3	5	5	5	1	0	266
(1)	.45	1.38	1.29	.93	.40	.85	1.47	1.11	1.25	1.02	.85	.13	.22	.22	.22	.04	.00	11.84
(2)	.22	.69	.65	.47	.20	.43	.74	.56	.63	.52	.43	.07	.11	.11	.11	.02	.00	5.96
1.6- 2.0	19	22	28	7	3	4	21	14	14	29	21	13	9	11	8	7	0	230
(1)	.85	.98	1.25	.31	.13	.18	.93	.62	.62	1.29	.93	.58	.40	.49	.36	.31	.00	10.24
(2)	.43	.49	.63	.16	.07	.09	.47	.31	.31	.65	.47	.29	.20	.25	.18	.16	.00	5.15
2.1- 3.0	71	51	48	4	4	6	13	12	30	57	50	22	26	27	38	43	0	502
(1)	3.16	2.27	2.14	.18	.18	.27	.58	.53	1.34	2.54	2.23	.98	1.16	1.20	1.69	1.91	.00	22.35
(2)	1.59	1.14	1.08	.09	.09	.13	.29	.27	.67	1.28	1.12	.49	.58	.60	.85	.96	.00	11.25
3.1- 4.0	74	19	25	4	1	2	2	6	9	21	102	39	24	25	43	77	0	473
(1)	3.29	.85	1.11	.18	.04	.09	.09	.27	.40	.93	4.54	1.74	1.07	1.11	1.91	3.43	.00	21.06
(2)	1.66	.43	.56	.09	.02	.04	.04	.13	.20	.47	2.28	.87	.54	.56	.96	1.72	.00	10.60
4.1- 5.0	27	7	1	0	0	0	1	1	0	2	70	57	32	19	34	66	0	317
(1)	1.20	.31	.04	.00	.00	.00	.04	.04	.00	.09	3.12	2.54	1.42	.85	1.51	2.94	.00	14.11
(2)	.60	.16	.02	.00	.00	.00	.02	.02	.00	.04	1.57	1.28	.72	.43	.76	1.48	.00	7.10
5.1- 6.0	7	0	0	0	0	0	1	0	0	1	29	36	13	14	42	28	0	171
(1)	.31	.00	.00	.00	.00	.00	.04	.00	.00	.04	1.29	1.60	.58	.62	1.87	1.25	.00	7.61
(2)	.16	.00	.00	.00	.00	.00	.02	.00	.00	.02	.65	.81	.29	.31	.94	.63	.00	3.83

Table 2.3-40—{SSES 33' (10-m) 2001-2006 January JFD - continued}

(Page 2 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 50.31**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	2	0	0	0	0	2	1	0	0	0	4	31	10	4	15	24	0	93
(1)	.09	.00	.00	.00	.00	.09	.04	.00	.00	.00	.18	1.38	.45	.18	.67	1.07	.00	4.14
(2)	.04	.00	.00	.00	.00	.04	.02	.00	.00	.00	.09	.69	.22	.09	.34	.54	.00	2.08
8.1-10.0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	3
(1)	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00	.04	.00	.00	.00	.04	.00	.13
(2)	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02	.00	.00	.00	.02	.00	.07
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	213	137	148	64	56	52	91	66	100	145	300	209	119	107	188	251	0	2246
(1)	9.48	6.10	6.59	2.85	2.49	2.32	4.05	2.94	4.45	6.46	13.36	9.31	5.30	4.76	8.37	11.18	.00	100.00
(2)	4.77	3.07	3.32	1.43	1.25	1.16	2.04	1.48	2.24	3.25	6.72	4.68	2.67	2.40	4.21	5.62	.00	50.31

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIO

Table 2.3-40—{SSES 33' (10-m) 2001-2006 January JFD - continued}

(Page 1 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 28.49**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	1	3	2	1	0	0	1	1	0	0	0	0	0	0	10
(1)	.00	.00	.08	.08	.24	.16	.08	.00	.00	.08	.08	.00	.00	.00	.00	.00	.00	.79
(2)	.00	.00	.02	.02	.07	.04	.02	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.22
.5- 1.0	7	26	50	71	48	49	54	34	39	21	3	3	2	3	4	1	0	415
(1)	.55	2.04	3.93	5.58	3.77	3.85	4.25	2.67	3.07	1.65	.24	.24	.16	.24	.31	.08	.00	32.63
(2)	.16	.58	1.12	1.59	1.08	1.10	1.21	.76	.87	.47	.07	.07	.04	.07	.09	.02	.00	9.30
1.1- 1.5	9	28	40	14	8	14	22	27	55	29	9	8	10	6	3	2	0	284
(1)	.71	2.20	3.14	1.10	.63	1.10	1.73	2.12	4.32	2.28	.71	.63	.79	.47	.24	.16	.00	22.33
(2)	.20	.63	.90	.31	.18	.31	.49	.60	1.23	.65	.20	.18	.22	.13	.07	.04	.00	6.36
1.6- 2.0	23	41	27	6	5	4	1	4	19	38	23	10	5	1	7	7	0	221
(1)	1.81	3.22	2.12	.47	.39	.31	.08	.31	1.49	2.99	1.81	.79	.39	.08	.55	.55	.00	17.37
(2)	.52	.92	.60	.13	.11	.09	.02	.09	.43	.85	.52	.22	.11	.02	.16	.16	.00	4.95
2.1- 3.0	27	30	22	0	4	6	0	4	13	37	49	7	7	3	4	12	0	225
(1)	2.12	2.36	1.73	.00	.31	.47	.00	.31	1.02	2.91	3.85	.55	.55	.24	.31	.94	.00	17.69
(2)	.60	.67	.49	.00	.09	.13	.00	.09	.29	.83	1.10	.16	.16	.07	.09	.27	.00	5.04
3.1- 4.0	8	5	10	0	0	1	0	0	3	6	23	6	1	2	2	5	0	72
(1)	.63	.39	.79	.00	.00	.08	.00	.00	.24	.47	1.81	.47	.08	.16	.16	.39	.00	5.66
(2)	.18	.11	.22	.00	.00	.02	.00	.00	.07	.13	.52	.13	.02	.04	.04	.11	.00	1.61
4.1- 5.0	3	0	2	0	0	0	0	1	1	4	7	4	1	0	1	2	0	26
(1)	.24	.00	.16	.00	.00	.00	.00	.08	.08	.31	.55	.31	.08	.00	.08	.16	.00	2.04
(2)	.07	.00	.04	.00	.00	.00	.00	.02	.02	.09	.16	.09	.02	.00	.02	.04	.00	.58
5.1- 6.0	3	0	0	0	0	0	0	1	5	2	0	2	1	0	1	0	0	15
(1)	.24	.00	.00	.00	.00	.00	.00	.08	.39	.16	.00	.16	.08	.00	.08	.00	.00	1.18
(2)	.07	.00	.00	.00	.00	.00	.00	.02	.11	.04	.00	.04	.02	.00	.02	.00	.00	.34

Table 2.3-40—{SSES 33' (10-m) 2001-2006 January JFD - continued}

(Page 2 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 28.49**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.08	.08	.08	.00	.00	.08	.00	.00	.00	.00	.00	.31
(2)	.00	.00	.00	.00	.00	.00	.02	.02	.02	.00	.00	.02	.00	.00	.00	.00	.00	.09
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	80	130	152	92	68	76	79	72	136	138	115	41	27	15	22	29	0	1272
(1)	6.29	10.22	11.95	7.23	5.35	5.97	6.21	5.66	10.69	10.85	9.04	3.22	2.12	1.18	1.73	2.28	.00	100.00
(2)	1.79	2.91	3.41	2.06	1.52	1.70	1.77	1.61	3.05	3.09	2.58	.92	.60	.34	.49	.65	.00	28.49

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-40—{SSES 33' (10-m) 2001-2006 January JFD - continued}

(Page 1 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 8.49**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	1	3	0	0	0	1	0	0	0	0	0	0	0	0	5
(1)	.00	.00	.00	.26	.79	.00	.00	.00	.26	.00	.00	.00	.00	.00	.00	.00	.00	1.32
(2)	.00	.00	.00	.02	.07	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.11
.5- 1.0	2	4	33	85	55	29	18	16	19	3	1	1	0	1	0	0	0	267
(1)	.53	1.06	8.71	22.43	14.51	7.65	4.75	4.22	5.01	.79	.26	.26	.00	.26	.00	.00	.00	70.45
(2)	.04	.09	.74	1.90	1.23	.65	.40	.36	.43	.07	.02	.02	.00	.02	.00	.00	.00	5.98
1.1- 1.5	2	6	18	26	6	1	2	5	15	6	3	0	0	0	0	1	0	91
(1)	.53	1.58	4.75	6.86	1.58	.26	.53	1.32	3.96	1.58	.79	.00	.00	.00	.00	.26	.00	24.01
(2)	.04	.13	.40	.58	.13	.02	.04	.11	.34	.13	.07	.00	.00	.00	.00	.02	.00	2.04
1.6- 2.0	0	0	1	0	0	0	0	3	2	3	2	0	0	0	0	0	0	11
(1)	.00	.00	.26	.00	.00	.00	.00	.79	.53	.79	.53	.00	.00	.00	.00	.00	.00	2.90
(2)	.00	.00	.02	.00	.00	.00	.00	.07	.04	.07	.04	.00	.00	.00	.00	.00	.00	.25
2.1- 3.0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	1	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.26	.26	.26	.00	.26	.00	.00	.26	.00	1.32
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.02	.00	.02	.00	.00	.02	.00	.11
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-40—{SSES 33' (10-m) 2001-2006 January JFD - continued}

(Page 2 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 8.49**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	4	10	52	112	64	30	20	24	38	13	7	1	1	1	0	2	0	379
(1)	1.06	2.64	13.72	29.55	16.89	7.92	5.28	6.33	10.03	3.43	1.85	.26	.26	.26	.00	.53	.00	100.00
(2)	.09	.22	1.16	2.51	1.43	.67	.45	.54	.85	.29	.16	.02	.02	.02	.00	.04	.00	8.49

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-40—{SSES 33' (10-m) 2001-2006 January JFD - continued}

(Page 1 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 6.72**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.33	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.33
(2)	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	1	2	31	82	30	11	6	8	2	0	0	1	0	0	0	0	0	174
(1)	.33	.67	10.33	27.33	10.00	3.67	2.00	2.67	.67	.00	.00	.33	.00	.00	.00	.00	.00	58.00
(2)	.02	.04	.69	1.84	.67	.25	.13	.18	.04	.00	.00	.02	.00	.00	.00	.00	.00	3.90
1.1- 1.5	0	2	14	74	6	3	4	3	6	2	0	0	0	0	0	0	0	114
(1)	.00	.67	4.67	24.67	2.00	1.00	1.33	1.00	2.00	.67	.00	.00	.00	.00	.00	.00	.00	38.00
(2)	.00	.04	.31	1.66	.13	.07	.09	.07	.13	.04	.00	.00	.00	.00	.00	.00	.00	2.55
1.6- 2.0	0	0	2	3	0	0	0	0	0	4	0	0	0	0	0	0	0	9
(1)	.00	.00	.67	1.00	.00	.00	.00	.00	.00	1.33	.00	.00	.00	.00	.00	.00	.00	3.00
(2)	.00	.00	.04	.07	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.20
2.1- 3.0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2
(1)	.00	.00	.33	.00	.00	.00	.00	.00	.00	.33	.00	.00	.00	.00	.00	.00	.00	.67
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.04
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-40—{SSES 33' (10-m) 2001-2006 January JFD - continued}

(Page 2 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 6.72**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	1	4	48	159	37	14	10	11	8	7	0	1	0	0	0	0	0	300
(1)	.33	1.33	16.00	53.00	12.33	4.67	3.33	3.67	2.67	2.33	.00	.33	.00	.00	.00	.00	.00	100.00
(2)	.02	.09	1.08	3.56	.83	.31	.22	.25	.18	.16	.00	.02	.00	.00	.00	.00	.00	6.72

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-40—{SSES 33' (10-m) 2001-2006 January JFD - continued}
(Page 1 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS ALL — CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	2	4	12	2	1	1	3	2	2	0	0	1	1	0	0	31
(1)	.00	.00	.04	.09	.27	.04	.02	.02	.07	.04	.04	.00	.00	.02	.02	.00	.00	.69
(2)	.00	.00	.04	.09	.27	.04	.02	.02	.07	.04	.04	.00	.00	.02	.02	.00	.00	.69
.5- 1.0	13	39	130	264	168	110	98	65	78	35	8	12	2	5	7	5	0	1039
(1)	.29	.87	2.91	5.91	3.76	2.46	2.20	1.46	1.75	.78	.18	.27	.04	.11	.16	.11	.00	23.28
(2)	.29	.87	2.91	5.91	3.76	2.46	2.20	1.46	1.75	.78	.18	.27	.04	.11	.16	.11	.00	23.28
1.1- 1.5	21	67	101	135	31	40	62	64	107	64	33	12	15	11	8	4	0	775
(1)	.47	1.50	2.26	3.02	.69	.90	1.39	1.43	2.40	1.43	.74	.27	.34	.25	.18	.09	.00	17.36
(2)	.47	1.50	2.26	3.02	.69	.90	1.39	1.43	2.40	1.43	.74	.27	.34	.25	.18	.09	.00	17.36
1.6- 2.0	42	64	59	16	10	9	22	26	42	81	50	23	14	14	15	15	0	502
(1)	.94	1.43	1.32	.36	.22	.20	.49	.58	.94	1.81	1.12	.52	.31	.31	.34	.34	.00	11.25
(2)	.94	1.43	1.32	.36	.22	.20	.49	.58	.94	1.81	1.12	.52	.31	.31	.34	.34	.00	11.25
2.1- 3.0	99	82	73	4	8	12	14	17	51	104	116	34	38	32	44	56	0	784
(1)	2.22	1.84	1.64	.09	.18	.27	.31	.38	1.14	2.33	2.60	.76	.85	.72	.99	1.25	.00	17.56
(2)	2.22	1.84	1.64	.09	.18	.27	.31	.38	1.14	2.33	2.60	.76	.85	.72	.99	1.25	.00	17.56
3.1- 4.0	87	31	37	4	1	3	2	6	12	36	145	51	26	32	46	84	0	603
(1)	1.95	.69	.83	.09	.02	.07	.04	.13	.27	.81	3.25	1.14	.58	.72	1.03	1.88	.00	13.51
(2)	1.95	.69	.83	.09	.02	.07	.04	.13	.27	.81	3.25	1.14	.58	.72	1.03	1.88	.00	13.51
4.1- 5.0	34	11	3	0	0	0	1	2	1	6	104	74	35	23	38	71	0	403
(1)	.76	.25	.07	.00	.00	.00	.02	.04	.02	.13	2.33	1.66	.78	.52	.85	1.59	.00	9.03
(2)	.76	.25	.07	.00	.00	.00	.02	.04	.02	.13	2.33	1.66	.78	.52	.85	1.59	.00	9.03
5.1- 6.0	10	1	0	0	0	0	1	1	5	3	41	53	19	14	44	30	0	222
(1)	.22	.02	.00	.00	.00	.00	.02	.02	.11	.07	.92	1.19	.43	.31	.99	.67	.00	4.97
(2)	.22	.02	.00	.00	.00	.00	.02	.02	.11	.07	.92	1.19	.43	.31	.99	.67	.00	4.97

Table 2.3-40—{SSES 33' (10-m) 2001-2006 January JFD - continued}

(Page 2 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	2	0	0	0	0	2	2	1	1	0	4	36	11	4	15	24	0	102
(1)	.04	.00	.00	.00	.00	.04	.04	.02	.02	.00	.09	.81	.25	.09	.34	.54	.00	2.28
(2)	.04	.00	.00	.00	.00	.04	.04	.02	.02	.00	.09	.81	.25	.09	.34	.54	.00	2.28
8.1-10.0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	3
(1)	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02	.00	.00	.00	.02	.00	.07
(2)	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02	.00	.00	.00	.02	.00	.07
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	308	295	405	427	230	178	204	183	300	331	503	296	160	136	218	290	0	4464
(1)	6.90	6.61	9.07	9.57	5.15	3.99	4.57	4.10	6.72	7.41	11.27	6.63	3.58	3.05	4.88	6.50	.00	100.00
(2)	6.90	6.61	9.07	9.57	5.15	3.99	4.57	4.10	6.72	7.41	11.27	6.63	3.58	3.05	4.88	6.50	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIO

Table 2.3-41 {SSES 33' (10-m) 2001-2006 February JFD}

(Page 1 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS A — CLASS FREQUENCY (PERCENT) = 3.77

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.65	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.65
(2)	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
1.1- 1.5	0	1	0	0	0	1	0	0	3	2	1	1	0	0	0	0	0	9
(1)	.00	.65	.00	.00	.00	.65	.00	.00	1.96	1.31	.65	.65	.00	.00	.00	.00	.00	5.88
(2)	.00	.02	.00	.00	.00	.02	.00	.00	.07	.05	.02	.02	.00	.00	.00	.00	.00	.22
1.6- 2.0	0	0	1	0	1	1	0	1	2	7	6	0	0	0	0	1	0	20
(1)	.00	.00	.65	.00	.65	.65	.00	.65	1.31	4.58	3.92	.00	.00	.00	.00	.65	.00	13.07
(2)	.00	.00	.02	.00	.02	.02	.00	.02	.05	.17	.15	.00	.00	.00	.00	.02	.00	.49
2.1- 3.0	0	1	6	3	0	1	2	0	1	11	17	1	0	2	0	0	0	45
(1)	.00	.65	3.92	1.96	.00	.65	1.31	.00	.65	7.19	11.11	.65	.00	1.31	.00	.00	.00	29.41
(2)	.00	.02	.15	.07	.00	.02	.05	.00	.02	.27	.42	.02	.00	.05	.00	.00	.00	1.11
3.1- 4.0	0	1	1	0	0	0	4	1	3	5	12	2	1	0	0	0	0	30
(1)	.00	.65	.65	.00	.00	.00	2.61	.65	1.96	3.27	7.84	1.31	.65	.00	.00	.00	.00	19.61
(2)	.00	.02	.02	.00	.00	.00	.10	.02	.07	.12	.30	.05	.02	.00	.00	.00	.00	.74
4.1- 5.0	0	0	1	0	0	0	0	0	4	2	23	4	1	0	0	0	0	35
(1)	.00	.00	.65	.00	.00	.00	.00	.00	2.61	1.31	15.03	2.61	.65	.00	.00	.00	.00	22.88
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.10	.05	.57	.10	.02	.00	.00	.00	.00	.86
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	1	0	0	9
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.23	.00	.00	.00	.65	.00	.00	5.88
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20	.00	.00	.00	.02	.00	.00	.22

Table 2.3-41 {SSES 33' (10-m) 2001-2006 February JFD}

(Page 2 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 3.77**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.61	.00	.00	.00	.00	.00	.00	2.61
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.10
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	3	9	3	2	3	6	2	13	27	71	8	2	2	1	1	0	153
(1)	.00	1.96	5.88	1.96	1.31	1.96	3.92	1.31	8.50	17.65	46.41	5.23	1.31	1.31	.65	.65	.00	100.00
(2)	.00	.07	.22	.07	.05	.07	.15	.05	.32	.67	1.75	.20	.05	.05	.02	.02	.00	3.77

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-41—{SSES 33' (10-m) 2001-2006 February JFD - continued}

(Page 1 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.16**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	1	0	0	0	1	1	0	0	2	0	0	1	0	0	0	0	0	6
(1)	.78	.00	.00	.00	.78	.78	.00	.00	1.56	.00	.00	.78	.00	.00	.00	.00	.00	4.69
(2)	.02	.00	.00	.00	.02	.02	.00	.00	.05	.00	.00	.02	.00	.00	.00	.00	.00	.15
1.1- 1.5	0	0	0	0	1	0	0	1	1	2	0	0	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.78	.00	.00	.78	.78	1.56	.00	.00	.00	.00	.00	.00	.00	3.91
(2)	.00	.00	.00	.00	.02	.00	.00	.02	.02	.05	.00	.00	.00	.00	.00	.00	.00	.12
1.6- 2.0	0	0	2	1	1	0	1	0	1	3	2	0	0	0	0	1	0	12
(1)	.00	.00	1.56	.78	.78	.00	.78	.00	.78	2.34	1.56	.00	.00	.00	.00	.78	.00	9.38
(2)	.00	.00	.05	.02	.02	.00	.02	.00	.02	.07	.05	.00	.00	.00	.00	.02	.00	.30
2.1- 3.0	0	2	7	0	2	0	0	2	1	3	5	2	0	0	0	1	0	25
(1)	.00	1.56	5.47	.00	1.56	.00	.00	1.56	.78	2.34	3.91	1.56	.00	.00	.00	.78	.00	19.53
(2)	.00	.05	.17	.00	.05	.00	.00	.05	.02	.07	.12	.05	.00	.00	.00	.02	.00	.62
3.1- 4.0	3	4	5	0	0	0	0	0	4	1	8	4	1	0	0	0	0	30
(1)	2.34	3.13	3.91	.00	.00	.00	.00	.00	3.13	.78	6.25	3.13	.78	.00	.00	.00	.00	23.44
(2)	.07	.10	.12	.00	.00	.00	.00	.00	.10	.02	.20	.10	.02	.00	.00	.00	.00	.74
4.1- 5.0	1	1	1	0	0	0	0	0	0	3	20	2	1	0	0	1	0	30
(1)	.78	.78	.78	.00	.00	.00	.00	.00	.00	2.34	15.63	1.56	.78	.00	.00	.78	.00	23.44
(2)	.02	.02	.02	.00	.00	.00	.00	.00	.00	.07	.49	.05	.02	.00	.00	.02	.00	.74
5.1- 6.0	0	0	0	0	0	0	0	0	0	1	13	4	0	0	0	0	0	18
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.78	10.16	3.13	.00	.00	.00	.00	.00	14.06
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.32	.10	.00	.00	.00	.00	.00	.44

Table 2.3-41—{SSES 33' (10-m) 2001-2006 February JFD - continued}

(Page 2 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.16**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.78	.78	.00	.00	.00	.00	.00	1.56
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.05
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	5	7	15	1	5	1	1	3	9	13	49	14	2	0	0	3	0	128
(1)	3.91	5.47	11.72	.78	3.91	.78	.78	2.34	7.03	10.16	38.28	10.94	1.56	.00	.00	2.34	.00	100.00
(2)	.12	.17	.37	.02	.12	.02	.02	.07	.22	.32	1.21	.35	.05	.00	.00	.07	.00	3.16

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-41—{SSES 33' (10-m) 2001-2006 February JFD - continued}

(Page 1 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS C — CLASS FREQUENCY (PERCENT) = 4.14

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	2	2	1	1	1	0	0	0	0	0	0	0	0	7
(1)	.00	.00	.00	.00	1.19	1.19	.60	.60	.60	.00	.00	.00	.00	.00	.00	.00	.00	4.17
(2)	.00	.00	.00	.00	.05	.05	.02	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.17
1.1- 1.5	0	1	1	0	5	3	1	1	3	2	1	0	1	0	0	0	0	19
(1)	.00	.60	.60	.00	2.98	1.79	.60	.60	1.79	1.19	.60	.00	.60	.00	.00	.00	.00	11.31
(2)	.00	.02	.02	.00	.12	.07	.02	.02	.07	.05	.02	.00	.02	.00	.00	.00	.00	.47
1.6- 2.0	0	1	3	2	1	1	1	0	0	4	4	0	1	0	0	0	0	18
(1)	.00	.60	1.79	1.19	.60	.60	.60	.00	.00	2.38	2.38	.00	.60	.00	.00	.00	.00	10.71
(2)	.00	.02	.07	.05	.02	.02	.02	.00	.00	.10	.10	.00	.02	.00	.00	.00	.00	.44
2.1- 3.0	1	7	3	4	0	0	2	0	5	6	7	4	0	0	1	0	0	40
(1)	.60	4.17	1.79	2.38	.00	.00	1.19	.00	2.98	3.57	4.17	2.38	.00	.00	.60	.00	.00	23.81
(2)	.02	.17	.07	.10	.00	.00	.05	.00	.12	.15	.17	.10	.00	.00	.02	.00	.00	.99
3.1- 4.0	4	1	1	0	0	0	1	0	2	6	4	2	1	0	0	0	0	22
(1)	2.38	.60	.60	.00	.00	.00	.60	.00	1.19	3.57	2.38	1.19	.60	.00	.00	.00	.00	13.10
(2)	.10	.02	.02	.00	.00	.00	.02	.00	.05	.15	.10	.05	.02	.00	.00	.00	.00	.54
4.1- 5.0	3	0	3	0	0	0	0	0	1	3	13	6	3	3	1	2	0	38
(1)	1.79	.00	1.79	.00	.00	.00	.00	.00	.60	1.79	7.74	3.57	1.79	1.79	.60	1.19	.00	22.62
(2)	.07	.00	.07	.00	.00	.00	.00	.00	.02	.07	.32	.15	.07	.07	.02	.05	.00	.94
5.1- 6.0	0	0	0	0	0	0	0	0	1	0	9	0	3	0	1	3	0	17
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.60	.00	5.36	.00	1.79	.00	.60	1.79	.00	10.12
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.22	.00	.07	.00	.02	.07	.00	.42

Table 2.3-41—{SSES 33' (10-m) 2001-2006 February JFD - continued}

(Page 2 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 4.14**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	3	1	3	0	0	0	0	7
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.79	.60	1.79	.00	.00	.00	.00	4.17
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.02	.07	.00	.00	.00	.00	.17
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	8	10	11	6	8	6	6	2	13	21	41	13	12	3	3	5	0	168
(1)	4.76	5.95	6.55	3.57	4.76	3.57	3.57	1.19	7.74	12.50	24.40	7.74	7.14	1.79	1.79	2.98	.00	100.00
(2)	.20	.25	.27	.15	.20	.15	.15	.05	.32	.52	1.01	.32	.30	.07	.07	.12	.00	4.14

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-41—{SSES 33' (10-m) 2001-2006 February JFD - continued}

(Page 1 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS D — CLASS FREQUENCY (PERCENT) = 46.57

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.2- .4	0	0	1	1	2	1	0	1	0	0	0	0	0	0	0	0	0	6
(1)	.00	.00	.05	.05	.11	.05	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.32
(2)	.00	.00	.02	.02	.05	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15
.5- 1.0	6	18	16	14	10	13	12	10	9	5	5	2	1	0	5	5	0	131
(1)	.32	.95	.85	.74	.53	.69	.64	.53	.48	.26	.26	.11	.05	.00	.26	.26	.00	6.93
(2)	.15	.44	.39	.35	.25	.32	.30	.25	.22	.12	.12	.05	.02	.00	.12	.12	.00	3.23
1.1- 1.5	8	16	18	13	13	16	14	9	9	15	12	9	2	1	3	2	0	160
(1)	.42	.85	.95	.69	.69	.85	.74	.48	.48	.79	.64	.48	.11	.05	.16	.11	.00	8.47
(2)	.20	.39	.44	.32	.32	.39	.35	.22	.22	.37	.30	.22	.05	.02	.07	.05	.00	3.94
1.6- 2.0	6	14	21	15	5	13	5	14	10	15	9	5	8	5	6	9	0	160
(1)	.32	.74	1.11	.79	.26	.69	.26	.74	.53	.79	.48	.26	.42	.26	.32	.48	.00	8.47
(2)	.15	.35	.52	.37	.12	.32	.12	.35	.25	.37	.22	.12	.20	.12	.15	.22	.00	3.94
2.1- 3.0	34	31	34	10	5	7	15	24	24	31	28	19	17	17	21	35	0	352
(1)	1.80	1.64	1.80	.53	.26	.37	.79	1.27	1.27	1.64	1.48	1.01	.90	.90	1.11	1.85	.00	18.63
(2)	.84	.76	.84	.25	.12	.17	.37	.59	.59	.76	.69	.47	.42	.42	.52	.86	.00	8.68
3.1- 4.0	33	27	11	3	4	2	8	8	13	20	55	47	33	25	52	62	0	403
(1)	1.75	1.43	.58	.16	.21	.11	.42	.42	.69	1.06	2.91	2.49	1.75	1.32	2.75	3.28	.00	21.33
(2)	.81	.67	.27	.07	.10	.05	.20	.20	.32	.49	1.36	1.16	.81	.62	1.28	1.53	.00	9.94
4.1- 5.0	15	5	1	1	1	0	0	2	5	7	47	43	39	26	66	80	0	338
(1)	.79	.26	.05	.05	.05	.00	.00	.11	.26	.37	2.49	2.28	2.06	1.38	3.49	4.24	.00	17.89
(2)	.37	.12	.02	.02	.02	.00	.00	.05	.12	.17	1.16	1.06	.96	.64	1.63	1.97	.00	8.33
5.1- 6.0	5	0	0	0	0	1	0	0	0	2	30	29	17	20	61	32	0	197
(1)	.26	.00	.00	.00	.00	.05	.00	.00	.00	.11	1.59	1.54	.90	1.06	3.23	1.69	.00	10.43
(2)	.12	.00	.00	.00	.00	.02	.00	.00	.00	.05	.74	.71	.42	.49	1.50	.79	.00	4.86

Table 2.3-41—{SSES 33' (10-m) 2001-2006 February JFD - continued}

(Page 2 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 46.57**

	WIND DIRECTION FROM																	
SPEED m/s	**N**	**NNE**	**NE**	**ENE**	**E**	**ESE**	**SE**	**SSE**	**S**	**SSW**	**SW**	**WSW**	**W**	**WNW**	**NW**	**NNW**	**VRBL**	**TOTAL**
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	33	26	16	9	21	22	0	127
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.75	1.38	.85	.48	1.11	1.16	.00	6.72
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.81	.64	.39	.22	.52	.54	.00	3.13
8.1-10.0	0	0	0	0	0	0	0	0	0	0	2	5	4	1	0	0	0	12
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.26	.21	.05	.00	.00	.00	.64
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.12	.10	.02	.00	.00	.00	.30
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.11
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.05
ALL SPEEDS	107	112	102	57	40	53	54	68	70	95	221	186	138	104	235	247	0	1889
(1)	5.66	5.93	5.40	3.02	2.12	2.81	2.86	3.60	3.71	5.03	11.70	9.85	7.31	5.51	12.44	13.08	.00	100.00
(2)	2.64	2.76	2.51	1.41	.99	1.31	1.33	1.68	1.73	2.34	5.45	4.59	3.40	2.56	5.79	6.09	.00	46.57

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-41—{SSES 33' (10-m) 2001-2006 February JFD - continued}

(Page 1 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 26.38**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	4
(1)	.00	.00	.09	.00	.09	.00	.09	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.37
(2)	.00	.00	.02	.00	.02	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10
.5- 1.0	3	11	44	47	65	41	36	24	19	11	3	0	0	1	0	2	0	307
(1)	.28	1.03	4.11	4.39	6.07	3.83	3.36	2.24	1.78	1.03	.28	.00	.00	.09	.00	.19	.00	28.69
(2)	.07	.27	1.08	1.16	1.60	1.01	.89	.59	.47	.27	.07	.00	.00	.02	.00	.05	.00	7.57
1.1- 1.5	10	22	35	22	9	7	16	19	33	36	22	10	3	2	1	2	0	249
(1)	.93	2.06	3.27	2.06	.84	.65	1.50	1.78	3.08	3.36	2.06	.93	.28	.19	.09	.19	.00	23.27
(2)	.25	.54	.86	.54	.22	.17	.39	.47	.81	.89	.54	.25	.07	.05	.02	.05	.00	6.14
1.6- 2.0	15	13	10	4	2	3	6	8	16	43	16	10	4	2	3	3	0	158
(1)	1.40	1.21	.93	.37	.19	.28	.56	.75	1.50	4.02	1.50	.93	.37	.19	.28	.28	.00	14.77
(2)	.37	.32	.25	.10	.05	.07	.15	.20	.39	1.06	.39	.25	.10	.05	.07	.07	.00	3.90
2.1- 3.0	26	12	8	4	4	4	8	12	21	46	45	8	2	4	12	13	0	229
(1)	2.43	1.12	.75	.37	.37	.37	.75	1.12	1.96	4.30	4.21	.75	.19	.37	1.12	1.21	.00	21.40
(2)	.64	.30	.20	.10	.10	.10	.20	.30	.52	1.13	1.11	.20	.05	.10	.30	.32	.00	5.65
3.1- 4.0	8	3	10	1	2	0	1	2	4	8	31	8	2	0	1	7	0	88
(1)	.75	.28	.93	.09	.19	.00	.09	.19	.37	.75	2.90	.75	.19	.00	.09	.65	.00	8.22
(2)	.20	.07	.25	.02	.05	.00	.02	.05	.10	.20	.76	.20	.05	.00	.02	.17	.00	2.17
4.1- 5.0	2	2	0	0	0	0	0	1	5	3	5	2	1	0	0	2	0	23
(1)	.19	.19	.00	.00	.00	.00	.00	.09	.47	.28	.47	.19	.09	.00	.00	.19	.00	2.15
(2)	.05	.05	.00	.00	.00	.00	.00	.02	.12	.07	.12	.05	.02	.00	.00	.05	.00	.57
5.1- 6.0	0	0	0	0	0	0	2	1	0	2	1	1	0	0	0	0	0	7
(1)	.00	.00	.00	.00	.00	.00	.19	.09	.00	.19	.09	.09	.00	.00	.00	.00	.00	.65
(2)	.00	.00	.00	.00	.00	.00	.05	.02	.00	.05	.02	.02	.00	.00	.00	.00	.00	.17

Table 2.3-41—{SSES 33' (10-m) 2001-2006 February JFD - continued}

(Page 2 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 26.38**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	1	1	0	5
(1)	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.09	.09	.00	.00	.09	.09	.00	.47
(2)	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.02	.02	.00	.00	.02	.02	.00	.12
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	64	63	108	78	83	55	71	68	98	149	124	40	12	9	18	30	0	1070
(1)	5.98	5.89	10.09	7.29	7.76	5.14	6.64	6.36	9.16	13.93	11.59	3.74	1.12	.84	1.68	2.80	.00	100.00
(2)	1.58	1.55	2.66	1.92	2.05	1.36	1.75	1.68	2.42	3.67	3.06	.99	.30	.22	.44	.74	.00	26.38

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-41—{SSES 33' (10-m) 2001-2006 February JFD - continued}

(Page 1 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 9.54**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	1	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	5
(1)	.00	.26	.00	.26	.00	.00	.26	.00	.26	.00	.00	.00	.26	.00	.00	.00	.00	1.29
(2)	.00	.02	.00	.02	.00	.00	.02	.00	.02	.00	.00	.00	.02	.00	.00	.00	.00	.12
.5- 1.0	2	6	33	86	47	32	14	11	15	4	0	0	0	0	0	0	0	250
(1)	.52	1.55	8.53	22.22	12.14	8.27	3.62	2.84	3.88	1.03	.00	.00	.00	.00	.00	.00	.00	64.60
(2)	.05	.15	.81	2.12	1.16	.79	.35	.27	.37	.10	.00	.00	.00	.00	.00	.00	.00	6.16
1.1- 1.5	1	8	20	54	5	0	5	5	6	2	0	1	1	0	0	0	0	108
(1)	.26	2.07	5.17	13.95	1.29	.00	1.29	1.29	1.55	.52	.00	.26	.26	.00	.00	.00	.00	27.91
(2)	.02	.20	.49	1.33	.12	.00	.12	.12	.15	.05	.00	.02	.02	.00	.00	.00	.00	2.66
1.6- 2.0	0	5	3	2	0	0	0	0	2	3	1	1	0	0	0	0	0	17
(1)	.00	1.29	.78	.52	.00	.00	.00	.00	.52	.78	.26	.26	.00	.00	.00	.00	.00	4.39
(2)	.00	.12	.07	.05	.00	.00	.00	.00	.05	.07	.02	.02	.00	.00	.00	.00	.00	.42
2.1- 3.0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2	0	5
(1)	.26	.00	.00	.00	.00	.00	.00	.26	.00	.00	.00	.26	.00	.00	.00	.52	.00	1.29
(2)	.02	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.02	.00	.00	.00	.05	.00	.12
3.1- 4.0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2
(1)	.26	.00	.00	.00	.00	.00	.00	.00	.00	.26	.00	.00	.00	.00	.00	.00	.00	.52
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.05
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-41—{SSES 33' (10-m) 2001-2006 February JFD - continued}

(Page 2 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 9.54**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	5	20	56	143	52	32	20	17	24	10	1	3	2	0	0	2	0	387
(1)	1.29	5.17	14.47	36.95	13.44	8.27	5.17	4.39	6.20	2.58	.26	.78	.52	.00	.00	.52	.00	100.00
(2)	.12	.49	1.38	3.53	1.28	.79	.49	.42	.59	.25	.02	.07	.05	.00	.00	.05	.00	9.54

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-41—{SSES 33' (10-m) 2001-2006 February JFD - continued}

(Page 1 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 6.43**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	1	27	88	30	6	7	3	1	1	0	0	0	0	0	0	0	164
(1)	.00	.38	10.34	33.72	11.49	2.30	2.68	1.15	.38	.38	.00	.00	.00	.00	.00	.00	.00	62.84
(2)	.00	.02	.67	2.17	.74	.15	.17	.07	.02	.02	.00	.00	.00	.00	.00	.00	.00	4.04
1.1- 1.5	0	1	16	61	5	3	3	1	2	0	0	0	0	0	0	0	0	92
(1)	.00	.38	6.13	23.37	1.92	1.15	1.15	.38	.77	.00	.00	.00	.00	.00	.00	.00	.00	35.25
(2)	.00	.02	.39	1.50	.12	.07	.07	.02	.05	.00	.00	.00	.00	.00	.00	.00	.00	2.27
1.6- 2.0	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	5
(1)	.00	.00	.77	1.15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.92
(2)	.00	.00	.05	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12
2.1- 3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-41—{SSES 33' (10-m) 2001-2006 February JFD - continued}

(Page 2 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 6.43**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	2	45	152	35	9	10	4	3	1	0	0	0	0	0	0	0	261
(1)	.00	.77	17.24	58.24	13.41	3.45	3.83	1.53	1.15	.38	.00	.00	.00	.00	.00	.00	.00	100.00
(2)	.00	.05	1.11	3.75	.86	.22	.25	.10	.07	.02	.00	.00	.00	.00	.00	.00	.00	6.43

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIO

Table 2.3-41—{SSES 33' (10-m) 2001-2006 February JFD - continued}

(Page 1 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.2- .4	0	1	2	2	3	1	2	2	1	0	0	0	1	0	0	0	0	15
(1)	.00	.02	.05	.05	.07	.02	.05	.05	.02	.00	.00	.00	.02	.00	.00	.00	.00	.37
(2)	.00	.02	.05	.05	.07	.02	.05	.05	.02	.00	.00	.00	.02	.00	.00	.00	.00	.37
.5- 1.0	12	36	120	235	156	95	70	49	47	21	8	3	1	1	5	7	0	866
(1)	.30	.89	2.96	5.79	3.85	2.34	1.73	1.21	1.16	.52	.20	.07	.02	.02	.12	.17	.00	21.35
(2)	.30	.89	2.96	5.79	3.85	2.34	1.73	1.21	1.16	.52	.20	.07	.02	.02	.12	.17	.00	21.35
1.1- 1.5	19	49	90	150	38	30	39	36	57	59	36	21	7	3	4	4	0	642
(1)	.47	1.21	2.22	3.70	.94	.74	.96	.89	1.41	1.45	.89	.52	.17	.07	.10	.10	.00	15.83
(2)	.47	1.21	2.22	3.70	.94	.74	.96	.89	1.41	1.45	.89	.52	.17	.07	.10	.10	.00	15.83
1.6- 2.0	21	33	42	27	10	18	13	23	31	75	38	16	13	7	9	14	0	390
(1)	.52	.81	1.04	.67	.25	.44	.32	.57	.76	1.85	.94	.39	.32	.17	.22	.35	.00	9.62
(2)	.52	.81	1.04	.67	.25	.44	.32	.57	.76	1.85	.94	.39	.32	.17	.22	.35	.00	9.62
2.1- 3.0	62	53	58	21	11	12	27	39	52	97	102	35	19	23	34	51	0	696
(1)	1.53	1.31	1.43	.52	.27	.30	.67	.96	1.28	2.39	2.51	.86	.47	.57	.84	1.26	.00	17.16
(2)	1.53	1.31	1.43	.52	.27	.30	.67	.96	1.28	2.39	2.51	.86	.47	.57	.84	1.26	.00	17.16
3.1- 4.0	49	36	28	4	6	2	14	11	26	41	110	63	38	25	53	69	0	575
(1)	1.21	.89	.69	.10	.15	.05	.35	.27	.64	1.01	2.71	1.55	.94	.62	1.31	1.70	.00	14.18
(2)	1.21	.89	.69	.10	.15	.05	.35	.27	.64	1.01	2.71	1.55	.94	.62	1.31	1.70	.00	14.18
4.1- 5.0	21	8	6	1	1	0	0	3	15	18	108	57	45	29	67	85	0	464
(1)	.52	.20	.15	.02	.02	.00	.00	.07	.37	.44	2.66	1.41	1.11	.71	1.65	2.10	.00	11.44
(2)	.52	.20	.15	.02	.02	.00	.00	.07	.37	.44	2.66	1.41	1.11	.71	1.65	2.10	.00	11.44
5.1- 6.0	5	0	0	0	0	1	2	1	1	5	61	34	20	20	63	35	0	248
(1)	.12	.00	.00	.00	.00	.02	.05	.02	.02	.12	1.50	.84	.49	.49	1.55	.86	.00	6.11
(2)	.12	.00	.00	.00	.00	.02	.05	.02	.02	.12	1.50	.84	.49	.49	1.55	.86	.00	6.11

Table 2.3-41—{SSES 33' (10-m) 2001-2006 February JFD - continued}

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SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	1	0	0	0	42	29	19	9	22	23	0	145
(1)	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	1.04	.71	.47	.22	.54	.57	.00	3.57
(2)	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	1.04	.71	.47	.22	.54	.57	.00	3.57
8.1-10.0	0	0	0	0	0	0	0	0	0	0	2	5	4	1	0	0	0	12
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.12	.10	.02	.00	.00	.00	.30
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.12	.10	.02	.00	.00	.00	.30
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.05
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.05
ALL SPEEDS	189	217	346	440	225	159	168	164	230	316	507	264	168	118	257	288	0	4056
(1)	4.66	5.35	8.53	10.85	5.55	3.92	4.14	4.04	5.67	7.79	12.50	6.51	4.14	2.91	6.34	7.10	.00	100.00
(2)	4.66	5.35	8.53	10.85	5.55	3.92	4.14	4.04	5.67	7.79	12.50	6.51	4.14	2.91	6.34	7.10	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIO

Table 2.3-42 {SSES 33' (10-m) 2001-2006 March JFD}

(Page 1 of 2)

SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 5.69**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.39	.00	.00	.39	.00	.00	.00	.00	.00	.00	.79
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02	.00	.00	.00	.00	.00	.00	.04
1.1- 1.5	0	1	1	1	2	0	2	1	2	3	3	0	1	0	0	0	0	17
(1)	.00	.39	.39	.39	.79	.00	.79	.39	.79	1.18	1.18	.00	.39	.00	.00	.00	.00	6.69
(2)	.00	.02	.02	.02	.04	.00	.04	.02	.04	.07	.07	.00	.02	.00	.00	.00	.00	.38
1.6- 2.0	1	0	3	2	0	2	0	2	2	4	8	1	0	0	1	0	0	26
(1)	.39	.00	1.18	.79	.00	.79	.00	.79	.79	1.57	3.15	.39	.00	.00	.39	.00	.00	10.24
(2)	.02	.00	.07	.04	.00	.04	.00	.04	.04	.09	.18	.02	.00	.00	.02	.00	.00	.58
2.1- 3.0	1	1	1	1	1	1	2	2	6	9	17	14	3	0	1	0	0	60
(1)	.39	.39	.39	.39	.39	.39	.79	.79	2.36	3.54	6.69	5.51	1.18	.00	.39	.00	.00	23.62
(2)	.02	.02	.02	.02	.02	.02	.04	.04	.13	.20	.38	.31	.07	.00	.02	.00	.00	1.34
3.1- 4.0	0	3	2	1	0	1	9	2	8	12	10	6	4	2	1	1	0	62
(1)	.00	1.18	.79	.39	.00	.39	3.54	.79	3.15	4.72	3.94	2.36	1.57	.79	.39	.39	.00	24.41
(2)	.00	.07	.04	.02	.00	.02	.20	.04	.18	.27	.22	.13	.09	.04	.02	.02	.00	1.39
4.1- 5.0	0	0	0	0	0	0	8	1	11	12	16	3	3	0	2	0	0	56
(1)	.00	.00	.00	.00	.00	.00	3.15	.39	4.33	4.72	6.30	1.18	1.18	.00	.79	.00	.00	22.05
(2)	.00	.00	.00	.00	.00	.00	.18	.02	.25	.27	.36	.07	.07	.00	.04	.00	.00	1.25
5.1- 6.0	0	0	0	0	0	0	0	0	0	3	11	5	2	0	1	2	0	24
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.18	4.33	1.97	.79	.00	.39	.79	.00	9.45
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.25	.11	.04	.00	.02	.04	.00	.54

Table 2.3-42 {SSES 33' (10-m) 2001-2006 March JFD}

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SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 5.69**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	1	0	7
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.97	.39	.00	.00	.00	.39	.00	2.76
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.02	.00	.00	.00	.02	.00	.16
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	2	5	7	5	3	4	21	9	29	43	71	30	13	2	6	4	0	254
(1)	.79	1.97	2.76	1.97	1.18	1.57	8.27	3.54	11.42	16.93	27.95	11.81	5.12	.79	2.36	1.57	.00	100.00
(2)	.04	.11	.16	.11	.07	.09	.47	.20	.65	.96	1.59	.67	.29	.04	.13	.09	.00	5.69

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-42—{SSES 33' (10-m) 2001-2006 March JFD - continued}

(Page 1 of 2)

SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS B — CLASS FREQUENCY (PERCENT) = 3.23

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.1- 1.5	0	0	2	1	1	2	0	2	3	2	0	0	0	1	0	0	0	14
(1)	.00	.00	1.39	.69	.69	1.39	.00	1.39	2.08	1.39	.00	.00	.00	.69	.00	.00	.00	9.72
(2)	.00	.00	.04	.02	.02	.04	.00	.04	.07	.04	.00	.00	.00	.02	.00	.00	.00	.31
1.6- 2.0	2	1	0	1	0	1	0	2	0	1	0	0	0	0	0	0	0	8
(1)	1.39	.69	.00	.69	.00	.69	.00	1.39	.00	.69	.00	.00	.00	.00	.00	.00	.00	5.56
(2)	.04	.02	.00	.02	.00	.02	.00	.04	.00	.02	.00	.00	.00	.00	.00	.00	.00	.18
2.1- 3.0	1	1	3	0	0	1	3	3	7	7	5	3	2	0	0	1	0	37
(1)	.69	.69	2.08	.00	.00	.69	2.08	2.08	4.86	4.86	3.47	2.08	1.39	.00	.00	.69	.00	25.69
(2)	.02	.02	.07	.00	.00	.02	.07	.07	.16	.16	.11	.07	.04	.00	.00	.02	.00	.83
3.1- 4.0	2	0	0	0	2	0	1	3	2	2	5	3	0	1	2	3	0	26
(1)	1.39	.00	.00	.00	1.39	.00	.69	2.08	1.39	1.39	3.47	2.08	.00	.69	1.39	2.08	.00	18.06
(2)	.04	.00	.00	.00	.04	.00	.02	.07	.04	.04	.11	.07	.00	.02	.04	.07	.00	.58
4.1- 5.0	1	0	0	0	0	0	1	0	0	3	7	6	4	3	1	7	0	33
(1)	.69	.00	.00	.00	.00	.00	.69	.00	.00	2.08	4.86	4.17	2.78	2.08	.69	4.86	.00	22.92
(2)	.02	.00	.00	.00	.00	.00	.02	.00	.00	.07	.16	.13	.09	.07	.02	.16	.00	.74
5.1- 6.0	0	0	0	0	0	0	0	0	0	1	6	8	0	1	3	0	0	19
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.69	4.17	5.56	.00	.69	2.08	.00	.00	13.19
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.13	.18	.00	.02	.07	.00	.00	.43

Table 2.3-42—{SSES 33' (10-m) 2001-2006 March JFD - continued}

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SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.23**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.08	2.08	.00	.00	.00	.00	.00	4.17
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.07	.00	.00	.00	.00	.00	.13
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.69	.00	.00	.00	.00	.00	.00	.69
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	6	2	5	2	3	4	5	10	12	16	27	23	6	6	6	11	0	144
(1)	4.17	1.39	3.47	1.39	2.08	2.78	3.47	6.94	8.33	11.11	18.75	15.97	4.17	4.17	4.17	7.64	.00	100.00
(2)	.13	.04	.11	.04	.07	.09	.11	.22	.27	.36	.60	.52	.13	.13	.13	.25	.00	3.23

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-42—{SSES 33' (10-m) 2001-2006 March JFD - continued}

(Page 1 of 2)

SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 3.92**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	2	0	1	0	1	0	0	1	0	0	1	0	0	0	6
(1)	.00	.00	.00	1.14	.00	.57	.00	.57	.00	.00	.57	.00	.00	.57	.00	.00	.00	3.43
(2)	.00	.00	.00	.04	.00	.02	.00	.02	.00	.00	.02	.00	.00	.02	.00	.00	.00	.13
1.1- 1.5	0	0	2	1	1	0	1	0	3	3	1	0	1	0	0	0	0	13
(1)	.00	.00	1.14	.57	.57	.00	.57	.00	1.71	1.71	.57	.00	.57	.00	.00	.00	.00	7.43
(2)	.00	.00	.04	.02	.02	.00	.02	.00	.07	.07	.02	.00	.02	.00	.00	.00	.00	.29
1.6- 2.0	1	0	1	0	1	0	0	0	0	3	3	0	1	0	0	1	0	11
(1)	.57	.00	.57	.00	.57	.00	.00	.00	.00	1.71	1.71	.00	.57	.00	.00	.57	.00	6.29
(2)	.02	.00	.02	.00	.02	.00	.00	.00	.00	.07	.07	.00	.02	.00	.00	.02	.00	.25
2.1- 3.0	1	7	5	1	1	0	2	1	1	2	5	9	1	0	0	0	0	36
(1)	.57	4.00	2.86	.57	.57	.00	1.14	.57	.57	1.14	2.86	5.14	.57	.00	.00	.00	.00	20.57
(2)	.02	.16	.11	.02	.02	.00	.04	.02	.02	.04	.11	.20	.02	.00	.00	.00	.00	.81
3.1- 4.0	4	1	1	0	0	0	3	1	4	0	10	7	3	1	5	4	0	44
(1)	2.29	.57	.57	.00	.00	.00	1.71	.57	2.29	.00	5.71	4.00	1.71	.57	2.86	2.29	.00	25.14
(2)	.09	.02	.02	.00	.00	.00	.07	.02	.09	.00	.22	.16	.07	.02	.11	.09	.00	.99
4.1- 5.0	4	0	0	0	0	0	1	1	4	1	4	5	4	1	4	5	0	34
(1)	2.29	.00	.00	.00	.00	.00	.57	.57	2.29	.57	2.29	2.86	2.29	.57	2.29	2.86	.00	19.43
(2)	.09	.00	.00	.00	.00	.00	.02	.02	.09	.02	.09	.11	.09	.02	.09	.11	.00	.76
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	3	5	2	1	6	2	0	19
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.71	2.86	1.14	.57	3.43	1.14	.00	10.86
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.11	.04	.02	.13	.04	.00	.43

Table 2.3-42—{SSES 33' (10-m) 2001-2006 March JFD - continued}

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SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 3.92**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	3	3	1	0	2	1	0	10
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.71	1.71	.57	.00	1.14	.57	.00	5.71
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.07	.02	.00	.04	.02	.00	.22
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.57	.57	.00	.00	.00	.00	.00	1.14
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.04
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	10	8	9	4	3	1	7	4	12	9	31	30	13	4	17	13	0	175
(1)	5.71	4.57	5.14	2.29	1.71	.57	4.00	2.29	6.86	5.14	17.71	17.14	7.43	2.29	9.71	7.43	.00	100.00
(2)	.22	.18	.20	.09	.07	.02	.16	.09	.27	.20	.69	.67	.29	.09	.38	.29	.00	3.92

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-42—{SSES 33' (10-m) 2001-2006 March JFD - continued}

(Page 1 of 2)

SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 46.53**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.00	.05	.00	.00	.05	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
(2)	.00	.00	.00	.02	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
.5- 1.0	4	9	8	10	22	13	13	7	15	1	3	0	0	1	0	2	0	108
(1)	.19	.43	.39	.48	1.06	.63	.63	.34	.72	.05	.14	.00	.00	.05	.00	.10	.00	5.20
(2)	.09	.20	.18	.22	.49	.29	.29	.16	.34	.02	.07	.00	.00	.02	.00	.04	.00	2.42
1.1- 1.5	7	17	17	9	14	8	11	10	15	16	10	5	4	5	6	7	0	161
(1)	.34	.82	.82	.43	.67	.39	.53	.48	.72	.77	.48	.24	.19	.24	.29	.34	.00	7.75
(2)	.16	.38	.38	.20	.31	.18	.25	.22	.34	.36	.22	.11	.09	.11	.13	.16	.00	3.61
1.6- 2.0	18	21	20	21	14	12	8	7	9	20	23	11	17	7	12	4	0	224
(1)	.87	1.01	.96	1.01	.67	.58	.39	.34	.43	.96	1.11	.53	.82	.34	.58	.19	.00	10.78
(2)	.40	.47	.45	.47	.31	.27	.18	.16	.20	.45	.52	.25	.38	.16	.27	.09	.00	5.02
2.1- 3.0	53	61	51	17	16	17	33	22	18	17	45	25	24	43	51	55	0	548
(1)	2.55	2.94	2.46	.82	.77	.82	1.59	1.06	.87	.82	2.17	1.20	1.16	2.07	2.46	2.65	.00	26.38
(2)	1.19	1.37	1.14	.38	.36	.38	.74	.49	.40	.38	1.01	.56	.54	.96	1.14	1.23	.00	12.28
3.1- 4.0	56	26	23	8	3	4	17	21	18	15	22	38	25	54	59	52	0	441
(1)	2.70	1.25	1.11	.39	.14	.19	.82	1.01	.87	.72	1.06	1.83	1.20	2.60	2.84	2.50	.00	21.23
(2)	1.25	.58	.52	.18	.07	.09	.38	.47	.40	.34	.49	.85	.56	1.21	1.32	1.16	.00	9.88
4.1- 5.0	27	8	6	1	1	4	3	8	10	5	16	45	34	40	62	41	0	311
(1)	1.30	.39	.29	.05	.05	.19	.14	.39	.48	.24	.77	2.17	1.64	1.93	2.99	1.97	.00	14.97
(2)	.60	.18	.13	.02	.02	.09	.07	.18	.22	.11	.36	1.01	.76	.90	1.39	.92	.00	6.97
5.1- 6.0	3	0	3	0	0	2	0	1	2	1	4	27	29	41	37	22	0	172
(1)	.14	.00	.14	.00	.00	.10	.00	.05	.10	.05	.19	1.30	1.40	1.97	1.78	1.06	.00	8.28
(2)	.07	.00	.07	.00	.00	.04	.00	.02	.04	.02	.09	.60	.65	.92	.83	.49	.00	3.85

Table 2.3-42—{SSES 33' (10-m) 2001-2006 March JFD - continued}

(Page 2 of 2)

SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 46.53**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	0	1	0	0	0	0	0	0	2	4	27	33	15	9	8	0	100
(1)	.05	.00	.05	.00	.00	.00	.00	.00	.00	.10	.19	1.30	1.59	.72	.43	.39	.00	4.81
(2)	.02	.00	.02	.00	.00	.00	.00	.00	.00	.04	.09	.60	.74	.34	.20	.18	.00	2.24
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	4	4	0	0	0	0	9
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.19	.19	.00	.00	.00	.00	.43
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.09	.09	.00	.00	.00	.00	.20
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	169	142	129	67	70	60	86	77	87	77	128	182	170	206	236	191	0	2077
(1)	8.14	6.84	6.21	3.23	3.37	2.89	4.14	3.71	4.19	3.71	6.16	8.76	8.18	9.92	11.36	9.20	.00	100.00
(2)	3.79	3.18	2.89	1.50	1.57	1.34	1.93	1.72	1.95	1.72	2.87	4.08	3.81	4.61	5.29	4.28	.00	46.53

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-42—{SSES 33' (10-m) 2001-2006 March JFD - continued}

(Page 1 of 2)

SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA   STABILITY CLASS E   CLASS FREQUENCY (PERCENT) = 23.77

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.2- .4	0	1	2	1	1	1	1	1	1	0	0	0	0	0	0	1	0	10
(1)	.00	.09	.19	.09	.09	.09	.09	.09	.09	.00	.00	.00	.00	.00	.00	.09	.00	.94
(2)	.00	.02	.04	.02	.02	.02	.02	.02	.02	.00	.00	.00	.00	.00	.00	.02	.00	.22
.5- 1.0	11	16	38	57	43	38	35	29	25	22	15	6	2	1	2	2	0	342
(1)	1.04	1.51	3.58	5.37	4.05	3.58	3.30	2.73	2.36	2.07	1.41	.57	.19	.09	.19	.19	.00	32.23
(2)	.25	.36	.85	1.28	.96	.85	.78	.65	.56	.49	.34	.13	.04	.02	.04	.04	.00	7.66
1.1- 1.5	19	27	27	16	13	6	15	15	12	29	23	9	8	3	2	4	0	228
(1)	1.79	2.54	2.54	1.51	1.23	.57	1.41	1.41	1.13	2.73	2.17	.85	.75	.28	.19	.38	.00	21.49
(2)	.43	.60	.60	.36	.29	.13	.34	.34	.27	.65	.52	.20	.18	.07	.04	.09	.00	5.11
1.6- 2.0	13	31	15	3	2	5	0	9	9	17	20	13	6	7	3	4	0	157
(1)	1.23	2.92	1.41	.28	.19	.47	.00	.85	.85	1.60	1.89	1.23	.57	.66	.28	.38	.00	14.80
(2)	.29	.69	.34	.07	.04	.11	.00	.20	.20	.38	.45	.29	.13	.16	.07	.09	.00	3.52
2.1- 3.0	22	34	27	2	7	6	6	7	12	19	26	9	11	3	7	6	0	204
(1)	2.07	3.20	2.54	.19	.66	.57	.57	.66	1.13	1.79	2.45	.85	1.04	.28	.66	.57	.00	19.23
(2)	.49	.76	.60	.04	.16	.13	.13	.16	.27	.43	.58	.20	.25	.07	.16	.13	.00	4.57
3.1- 4.0	6	17	7	1	1	2	1	4	6	8	12	4	3	2	6	2	0	82
(1)	.57	1.60	.66	.09	.09	.19	.09	.38	.57	.75	1.13	.38	.28	.19	.57	.19	.00	7.73
(2)	.13	.38	.16	.02	.02	.04	.02	.09	.13	.18	.27	.09	.07	.04	.13	.04	.00	1.84
4.1- 5.0	3	4	0	0	0	1	0	1	5	4	4	1	0	1	0	0	0	24
(1)	.28	.38	.00	.00	.00	.09	.00	.09	.47	.38	.38	.09	.00	.09	.00	.00	.00	2.26
(2)	.07	.09	.00	.00	.00	.02	.00	.02	.11	.09	.09	.02	.00	.02	.00	.00	.00	.54
5.1- 6.0	1	0	0	0	0	0	0	0	1	0	1	0	0	4	0	1	0	8
(1)	.09	.00	.00	.00	.00	.00	.00	.00	.09	.00	.09	.00	.00	.38	.00	.09	.00	.75
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	.09	.00	.02	.00	.18

Table 2.3-42—{SSES 33' (10-m) 2001-2006 March JFD - continued}

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SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 23.77**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	1	0	3	0	0	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.09	.00	.28	.00	.00	.00	.00	.00	.00	.00	.00	.38
(2)	.00	.00	.00	.00	.00	.00	.02	.00	.07	.00	.00	.00	.00	.00	.00	.00	.00	.09
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.09
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	75	130	117	80	67	59	59	66	74	99	102	42	30	21	20	20	0	1061
(1)	7.07	12.25	11.03	7.54	6.31	5.56	5.56	6.22	6.97	9.33	9.61	3.96	2.83	1.98	1.89	1.89	.00	100.00
(2)	1.68	2.91	2.62	1.79	1.50	1.32	1.32	1.48	1.66	2.22	2.28	.94	.67	.47	.45	.45	.00	23.77

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-42—{SSES 33' (10-m) 2001-2006 March JFD - continued}

(Page 1 of 2)

SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 9.12**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	1	14	53	92	51	28	14	11	13	5	2	0	0	0	2	0	0	286
(1)	.25	3.44	13.02	22.60	12.53	6.88	3.44	2.70	3.19	1.23	.49	.00	.00	.00	.49	.00	.00	70.27
(2)	.02	.31	1.19	2.06	1.14	.63	.31	.25	.29	.11	.04	.00	.00	.00	.04	.00	.00	6.41
1.1- 1.5	5	4	24	28	5	2	2	5	1	3	2	1	0	0	1	0	0	83
(1)	1.23	.98	5.90	6.88	1.23	.49	.49	1.23	.25	.74	.49	.25	.00	.00	.25	.00	.00	20.39
(2)	.11	.09	.54	.63	.11	.04	.04	.11	.02	.07	.04	.02	.00	.00	.02	.00	.00	1.86
1.6- 2.0	0	5	6	4	0	0	0	2	1	3	4	1	0	0	1	0	0	27
(1)	.00	1.23	1.47	.98	.00	.00	.00	.49	.25	.74	.98	.25	.00	.00	.25	.00	.00	6.63
(2)	.00	.11	.13	.09	.00	.00	.00	.04	.02	.07	.09	.02	.00	.00	.02	.00	.00	.60
2.1- 3.0	1	1	0	0	0	0	0	0	1	0	5	2	0	1	0	0	0	11
(1)	.25	.25	.00	.00	.00	.00	.00	.00	.25	.00	1.23	.49	.00	.25	.00	.00	.00	2.70
(2)	.02	.02	.00	.00	.00	.00	.00	.00	.02	.00	.11	.04	.00	.02	.00	.00	.00	.25
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-42—{SSES 33' (10-m) 2001-2006 March JFD - continued}

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SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 9.12**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	7	24	83	124	56	30	16	18	16	11	13	4	0	1	4	0	0	407
(1)	1.72	5.90	20.39	30.47	13.76	7.37	3.93	4.42	3.93	2.70	3.19	.98	.00	.25	.98	.00	.00	100.00
(2)	.16	.54	1.86	2.78	1.25	.67	.36	.40	.36	.25	.29	.09	.00	.02	.09	.00	.00	9.12

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-42—{SSES 33' (10-m) 2001-2006 March JFD - continued}

(Page 1 of 2)

SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 7.75**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	2	5	51	102	24	7	12	5	3	0	0	0	0	0	0	0	0	211
(1)	.58	1.45	14.74	29.48	6.94	2.02	3.47	1.45	.87	.00	.00	.00	.00	.00	.00	.00	.00	60.98
(2)	.04	.11	1.14	2.28	.54	.16	.27	.11	.07	.00	.00	.00	.00	.00	.00	.00	.00	4.73
1.1- 1.5	1	1	29	77	2	2	0	0	2	1	0	0	0	0	0	0	0	115
(1)	.29	.29	8.38	22.25	.58	.58	.00	.00	.58	.29	.00	.00	.00	.00	.00	.00	.00	33.24
(2)	.02	.02	.65	1.72	.04	.04	.00	.00	.04	.02	.00	.00	.00	.00	.00	.00	.00	2.58
1.6- 2.0	0	1	6	9	0	0	0	0	0	0	1	0	0	0	0	0	0	17
(1)	.00	.29	1.73	2.60	.00	.00	.00	.00	.00	.00	.29	.00	.00	.00	.00	.00	.00	4.91
(2)	.00	.02	.13	.20	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.38
2.1- 3.0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.29	.29	.00	.00	.29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.87
(2)	.00	.00	.02	.02	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-42—{SSES 33' (10-m) 2001-2006 March JFD - continued}

(Page 2 of 2)

SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 7.75**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	3	7	87	189	26	9	13	5	5	1	1	0	0	0	0	0	0	346
(1)	.87	2.02	25.14	54.62	7.51	2.60	3.76	1.45	1.45	.29	.29	.00	.00	.00	.00	.00	.00	100.00
(2)	.07	.16	1.95	4.23	.58	.20	.29	.11	.11	.02	.02	.00	.00	.00	.00	.00	.00	7.75

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-42—{SSES 33' (10-m) 2001-2006 March JFD - continued}

(Page 1 of 2)

SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.2- .4	0	1	2	2	1	1	2	2	1	0	0	0	0	0	0	1	0	13
(1)	.00	.02	.04	.04	.02	.02	.04	.04	.02	.00	.00	.00	.00	.00	.00	.02	.00	.29
(2)	.00	.02	.04	.04	.02	.02	.04	.04	.02	.00	.00	.00	.00	.00	.00	.02	.00	.29
.5- 1.0	18	44	150	263	140	87	74	54	56	28	22	6	2	3	4	4	0	955
(1)	.40	.99	3.36	5.89	3.14	1.95	1.66	1.21	1.25	.63	.49	.13	.04	.07	.09	.09	.00	21.39
(2)	.40	.99	3.36	5.89	3.14	1.95	1.66	1.21	1.25	.63	.49	.13	.04	.07	.09	.09	.00	21.39
1.1- 1.5	32	50	102	133	38	20	31	33	38	57	39	15	14	9	9	11	0	631
(1)	.72	1.12	2.28	2.98	.85	.45	.69	.74	.85	1.28	.87	.34	.31	.20	.20	.25	.00	14.14
(2)	.72	1.12	2.28	2.98	.85	.45	.69	.74	.85	1.28	.87	.34	.31	.20	.20	.25	.00	14.14
1.6- 2.0	35	59	51	40	17	20	8	22	21	48	59	26	24	14	17	9	0	470
(1)	.78	1.32	1.14	.90	.38	.45	.18	.49	.47	1.08	1.32	.58	.54	.31	.38	.20	.00	10.53
(2)	.78	1.32	1.14	.90	.38	.45	.18	.49	.47	1.08	1.32	.58	.54	.31	.38	.20	.00	10.53
2.1- 3.0	79	105	88	22	25	25	47	35	45	54	103	62	41	47	59	62	0	899
(1)	1.77	2.35	1.97	.49	.56	.56	1.05	.78	1.01	1.21	2.31	1.39	.92	1.05	1.32	1.39	.00	20.14
(2)	1.77	2.35	1.97	.49	.56	.56	1.05	.78	1.01	1.21	2.31	1.39	.92	1.05	1.32	1.39	.00	20.14
3.1- 4.0	68	47	33	10	6	7	31	31	38	37	59	58	35	60	73	62	0	655
(1)	1.52	1.05	.74	.22	.13	.16	.69	.69	.85	.83	1.32	1.30	.78	1.34	1.64	1.39	.00	14.67
(2)	1.52	1.05	.74	.22	.13	.16	.69	.69	.85	.83	1.32	1.30	.78	1.34	1.64	1.39	.00	14.67
4.1- 5.0	35	12	6	1	1	5	13	11	30	25	47	60	45	45	69	53	0	458
(1)	.78	.27	.13	.02	.02	.11	.29	.25	.67	.56	1.05	1.34	1.01	1.01	1.55	1.19	.00	10.26
(2)	.78	.27	.13	.02	.02	.11	.29	.25	.67	.56	1.05	1.34	1.01	1.01	1.55	1.19	.00	10.26
5.1- 6.0	4	0	3	0	0	2	0	1	3	5	25	45	33	47	47	27	0	242
(1)	.09	.00	.07	.00	.00	.04	.00	.02	.07	.11	.56	1.01	.74	1.05	1.05	.60	.00	5.42
(2)	.09	.00	.07	.00	.00	.04	.00	.02	.07	.11	.56	1.01	.74	1.05	1.05	.60	.00	5.42

Table 2.3-42—{SSES 33' (10-m) 2001-2006 March JFD - continued}
(Page 2 of 2)

SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	0	1	0	0	0	1	0	3	2	15	34	34	15	11	10	0	127
(1)	.02	.00	.02	.00	.00	.00	.02	.00	.07	.04	.34	.76	.76	.34	.25	.22	.00	2.84
(2)	.02	.00	.02	.00	.00	.00	.02	.00	.07	.04	.34	.76	.76	.34	.25	.22	.00	2.84
8.1-10.0	0	0	0	0	0	0	0	0	0	0	4	5	4	0	0	0	0	13
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.11	.09	.00	.00	.00	.00	.29
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.11	.09	.00	.00	.00	.00	.29
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	272	318	437	471	228	167	207	189	235	256	373	311	232	240	289	239	0	4464
(1)	6.09	7.12	9.79	10.55	5.11	3.74	4.64	4.23	5.26	5.73	8.36	6.97	5.20	5.38	6.47	5.35	.00	100.00
(2)	6.09	7.12	9.79	10.55	5.11	3.74	4.64	4.23	5.26	5.73	8.36	6.97	5.20	5.38	6.47	5.35	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-43 {SSES 33' (10-m) 2001-2006 April JFD}

(Page 1 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS A — CLASS FREQUENCY (PERCENT) = 8.77

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.26	.00	.00	.00	.00	.00	.26
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
1.1- 1.5	1	0	0	2	5	1	1	0	1	4	3	1	0	0	0	0	0	19
(1)	.26	.00	.00	.53	1.32	.26	.26	.00	.26	1.06	.79	.26	.00	.00	.00	.00	.00	5.03
(2)	.02	.00	.00	.05	.12	.02	.02	.00	.02	.09	.07	.02	.00	.00	.00	.00	.00	.44
1.6- 2.0	0	0	1	3	4	3	3	2	9	3	4	1	1	1	1	0	0	36
(1)	.00	.00	.26	.79	1.06	.79	.79	.53	2.38	.79	1.06	.26	.26	.26	.26	.00	.00	9.52
(2)	.00	.00	.02	.07	.09	.07	.07	.05	.21	.07	.09	.02	.02	.02	.02	.00	.00	.83
2.1- 3.0	4	5	5	1	3	3	2	3	15	21	24	8	0	0	0	0	0	94
(1)	1.06	1.32	1.32	.26	.79	.79	.53	.79	3.97	5.56	6.35	2.12	.00	.00	.00	.00	.00	24.87
(2)	.09	.12	.12	.02	.07	.07	.05	.07	.35	.49	.56	.19	.00	.00	.00	.00	.00	2.18
3.1- 4.0	10	24	11	0	0	0	1	3	8	16	27	6	1	2	2	1	0	112
(1)	2.65	6.35	2.91	.00	.00	.00	.26	.79	2.12	4.23	7.14	1.59	.26	.53	.53	.26	.00	29.63
(2)	.23	.56	.26	.00	.00	.00	.02	.07	.19	.37	.63	.14	.02	.05	.05	.02	.00	2.60
4.1- 5.0	6	9	2	0	0	0	5	5	5	10	22	11	2	3	1	4	0	85
(1)	1.59	2.38	.53	.00	.00	.00	1.32	1.32	1.32	2.65	5.82	2.91	.53	.79	.26	1.06	.00	22.49
(2)	.14	.21	.05	.00	.00	.00	.12	.12	.12	.23	.51	.26	.05	.07	.02	.09	.00	1.97
5.1- 6.0	2	1	0	0	0	1	2	0	0	0	10	8	0	0	0	2	0	26
(1)	.53	.26	.00	.00	.00	.26	.53	.00	.00	.00	2.65	2.12	.00	.00	.00	.53	.00	6.88
(2)	.05	.02	.00	.00	.00	.02	.05	.00	.00	.00	.23	.19	.00	.00	.00	.05	.00	.60

Table 2.3-43 {SSES 33' (10-m) 2001-2006 April JFD}

(Page 2 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 8.77**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	1	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.26	.26	.00	.26	.26	.00	.00	.26	.00	.00	1.32
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.02	.02	.00	.00	.02	.00	.00	.12
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	23	39	19	6	12	8	14	14	39	54	91	37	4	6	5	7	0	378
(1)	6.08	10.32	5.03	1.59	3.17	2.12	3.70	3.70	10.32	14.29	24.07	9.79	1.06	1.59	1.32	1.85	.00	100.00
(2)	.53	.90	.44	.14	.28	.19	.32	.32	.90	1.25	2.11	.86	.09	.14	.12	.16	.00	8.77

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-43—{SSES 33' (10-m) 2001-2006 April JFD - continued}

(Page 1 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.64**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	2	1	1	0	1	0	0	0	0	0	0	0	0	5
(1)	.00	.00	.00	.00	1.27	.64	.64	.00	.64	.00	.00	.00	.00	.00	.00	.00	.00	3.18
(2)	.00	.00	.00	.00	.05	.02	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.12
1.1- 1.5	0	1	0	0	0	1	0	1	1	1	0	0	0	0	0	0	0	5
(1)	.00	.64	.00	.00	.00	.64	.00	.64	.64	.64	.00	.00	.00	.00	.00	.00	.00	3.18
(2)	.00	.02	.00	.00	.00	.02	.00	.02	.02	.02	.00	.00	.00	.00	.00	.00	.00	.12
1.6- 2.0	0	0	1	2	3	1	2	0	0	0	3	0	0	0	0	0	0	12
(1)	.00	.00	.64	1.27	1.91	.64	1.27	.00	.00	.00	1.91	.00	.00	.00	.00	.00	.00	7.64
(2)	.00	.00	.02	.05	.07	.02	.05	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00	.28
2.1- 3.0	2	6	2	0	0	1	1	0	0	7	7	2	0	0	0	0	0	28
(1)	1.27	3.82	1.27	.00	.00	.64	.64	.00	.00	4.46	4.46	1.27	.00	.00	.00	.00	.00	17.83
(2)	.05	.14	.05	.00	.00	.02	.02	.00	.00	.16	.16	.05	.00	.00	.00	.00	.00	.65
3.1- 4.0	3	8	5	0	1	0	1	0	5	1	7	2	0	2	0	2	0	37
(1)	1.91	5.10	3.18	.00	.64	.00	.64	.00	3.18	.64	4.46	1.27	.00	1.27	.00	1.27	.00	23.57
(2)	.07	.19	.12	.00	.02	.00	.02	.00	.12	.02	.16	.05	.00	.05	.00	.05	.00	.86
4.1- 5.0	3	6	1	0	1	1	2	1	0	0	8	6	1	2	5	2	0	39
(1)	1.91	3.82	.64	.00	.64	.64	1.27	.64	.00	.00	5.10	3.82	.64	1.27	3.18	1.27	.00	24.84
(2)	.07	.14	.02	.00	.02	.02	.05	.02	.00	.00	.19	.14	.02	.05	.12	.05	.00	.90
5.1- 6.0	2	1	0	0	0	0	1	0	1	0	1	6	1	0	4	4	0	21
(1)	1.27	.64	.00	.00	.00	.00	.64	.00	.64	.00	.64	3.82	.64	.00	2.55	2.55	.00	13.38
(2)	.05	.02	.00	.00	.00	.00	.02	.00	.02	.00	.02	.14	.02	.00	.09	.09	.00	.49

Table 2.3-43—{SSES 33' (10-m) 2001-2006 April JFD - continued}

(Page 2 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.64**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	3	2	0	10
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.91	1.27	.00	.00	1.91	1.27	.00	6.37
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.05	.00	.00	.07	.05	.00	.23
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	10	22	9	2	7	5	8	2	8	9	29	18	2	4	12	10	0	157
(1)	6.37	14.01	5.73	1.27	4.46	3.18	5.10	1.27	5.10	5.73	18.47	11.46	1.27	2.55	7.64	6.37	.00	100.00
(2)	.23	.51	.21	.05	.16	.12	.19	.05	.19	.21	.67	.42	.05	.09	.28	.23	.00	3.64

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-43—{SSES 33' (10-m) 2001-2006 April JFD - continued}

(Page 1 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 4.96

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	1	3	2	0	0	0	0	0	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.47	1.40	.93	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.80
(2)	.00	.00	.00	.00	.02	.07	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
1.1- 1.5	0	0	0	1	2	0	2	0	3	0	1	0	0	0	0	0	0	9
(1)	.00	.00	.00	.47	.93	.00	.93	.00	1.40	.00	.47	.00	.00	.00	.00	.00	.00	4.21
(2)	.00	.00	.00	.02	.05	.00	.05	.00	.07	.00	.02	.00	.00	.00	.00	.00	.00	.21
1.6- 2.0	0	2	1	2	3	2	1	0	1	1	1	0	0	0	0	0	0	14
(1)	.00	.93	.47	.93	1.40	.93	.47	.00	.47	.47	.47	.00	.00	.00	.00	.00	.00	6.54
(2)	.00	.05	.02	.05	.07	.05	.02	.00	.02	.02	.02	.00	.00	.00	.00	.00	.00	.32
2.1- 3.0	4	6	6	1	1	1	2	3	6	1	6	6	1	0	0	1	0	45
(1)	1.87	2.80	2.80	.47	.47	.47	.93	1.40	2.80	.47	2.80	2.80	.47	.00	.00	.47	.00	21.03
(2)	.09	.14	.14	.02	.02	.02	.05	.07	.14	.02	.14	.14	.02	.00	.00	.02	.00	1.04
3.1- 4.0	13	14	1	1	0	1	0	1	4	5	9	6	1	1	1	2	0	60
(1)	6.07	6.54	.47	.47	.00	.47	.00	.47	1.87	2.34	4.21	2.80	.47	.47	.47	.93	.00	28.04
(2)	.30	.32	.02	.02	.00	.02	.00	.02	.09	.12	.21	.14	.02	.02	.02	.05	.00	1.39
4.1- 5.0	5	4	1	0	0	2	1	1	3	0	5	9	1	2	2	1	0	37
(1)	2.34	1.87	.47	.00	.00	.93	.47	.47	1.40	.00	2.34	4.21	.47	.93	.93	.47	.00	17.29
(2)	.12	.09	.02	.00	.00	.05	.02	.02	.07	.00	.12	.21	.02	.05	.05	.02	.00	.86
5.1- 6.0	3	1	0	0	0	0	1	0	0	0	4	7	6	1	5	4	0	32
(1)	1.40	.47	.00	.00	.00	.00	.47	.00	.00	.00	1.87	3.27	2.80	.47	2.34	1.87	.00	14.95
(2)	.07	.02	.00	.00	.00	.00	.02	.00	.00	.00	.09	.16	.14	.02	.12	.09	.00	.74

Table 2.3-43—{SSES 33' (10-m) 2001-2006 April JFD - continued}

(Page 2 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 4.96**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	0	0	0	0	0	1	0	0	0	2	3	2	0	0	1	0	10
(1)	.47	.00	.00	.00	.00	.00	.47	.00	.00	.00	.93	1.40	.93	.00	.00	.47	.00	4.67
(2)	.02	.00	.00	.00	.00	.00	.02	.00	.00	.00	.05	.07	.05	.00	.00	.02	.00	.23
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.47	.00	.00	.00	.00	.00	.47
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	26	27	9	5	7	9	10	5	17	7	28	32	11	4	8	9	0	214
(1)	12.15	12.62	4.21	2.34	3.27	4.21	4.67	2.34	7.94	3.27	13.08	14.95	5.14	1.87	3.74	4.21	.00	100.00
(2)	.60	.63	.21	.12	.16	.21	.23	.12	.39	.16	.65	.74	.26	.09	.19	.21	.00	4.96

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-43—{SSES 33' (10-m) 2001-2006 April JFD - continued}

(Page 1 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 40.89**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	1	1	13	6	10	18	8	6	2	4	1	2	3	1	2	0	0	78
(1)	.06	.06	.74	.34	.57	1.02	.45	.34	.11	.23	.06	.11	.17	.06	.11	.00	.00	4.42
(2)	.02	.02	.30	.14	.23	.42	.19	.14	.05	.09	.02	.05	.07	.02	.05	.00	.00	1.81
1.1- 1.5	12	32	12	17	10	10	11	10	11	9	6	7	4	1	1	5	0	158
(1)	.68	1.82	.68	.96	.57	.57	.62	.57	.62	.51	.34	.40	.23	.06	.06	.28	.00	8.96
(2)	.28	.74	.28	.39	.23	.23	.26	.23	.26	.21	.14	.16	.09	.02	.02	.12	.00	3.66
1.6- 2.0	8	24	25	9	12	14	14	12	13	11	15	5	7	0	2	5	0	176
(1)	.45	1.36	1.42	.51	.68	.79	.79	.68	.74	.62	.85	.28	.40	.00	.11	.28	.00	9.98
(2)	.19	.56	.58	.21	.28	.32	.32	.28	.30	.26	.35	.12	.16	.00	.05	.12	.00	4.08
2.1- 3.0	43	79	59	14	16	22	28	23	29	26	51	19	16	22	22	12	0	481
(1)	2.44	4.48	3.35	.79	.91	1.25	1.59	1.30	1.64	1.47	2.89	1.08	.91	1.25	1.25	.68	.00	27.28
(2)	1.00	1.83	1.37	.32	.37	.51	.65	.53	.67	.60	1.18	.44	.37	.51	.51	.28	.00	11.15
3.1- 4.0	69	59	31	8	9	17	25	20	14	15	38	15	13	28	35	45	0	441
(1)	3.91	3.35	1.76	.45	.51	.96	1.42	1.13	.79	.85	2.16	.85	.74	1.59	1.99	2.55	.00	25.01
(2)	1.60	1.37	.72	.19	.21	.39	.58	.46	.32	.35	.88	.35	.30	.65	.81	1.04	.00	10.23
4.1- 5.0	40	17	4	2	1	7	7	1	6	5	17	18	22	20	51	41	0	259
(1)	2.27	.96	.23	.11	.06	.40	.40	.06	.34	.28	.96	1.02	1.25	1.13	2.89	2.33	.00	14.69
(2)	.93	.39	.09	.05	.02	.16	.16	.02	.14	.12	.39	.42	.51	.46	1.18	.95	.00	6.01
5.1- 6.0	12	7	1	0	0	0	1	1	0	0	17	18	14	16	27	14	0	128
(1)	.68	.40	.06	.00	.00	.00	.06	.06	.00	.00	.96	1.02	.79	.91	1.53	.79	.00	7.26
(2)	.28	.16	.02	.00	.00	.00	.02	.02	.00	.00	.39	.42	.32	.37	.63	.32	.00	2.97

Table 2.3-43—{SSES 33' (10-m) 2001-2006 April JFD - continued}

(Page 2 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 40.89**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	2	1	0	0	0	0	2	0	0	0	5	7	9	2	8	4	0	40
(1)	.11	.06	.00	.00	.00	.00	.11	.00	.00	.00	.28	.40	.51	.11	.45	.23	.00	2.27
(2)	.05	.02	.00	.00	.00	.00	.05	.00	.00	.00	.12	.16	.21	.05	.19	.09	.00	.93
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00	.00	.06	.00	.11
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.02	.00	.05
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	187	220	145	56	58	88	96	73	75	70	150	92	88	90	148	127	0	1763
(1)	10.61	12.48	8.22	3.18	3.29	4.99	5.45	4.14	4.25	3.97	8.51	5.22	4.99	5.10	8.39	7.20	.00	100.00
(2)	4.34	5.10	3.36	1.30	1.35	2.04	2.23	1.69	1.74	1.62	3.48	2.13	2.04	2.09	3.43	2.95	.00	40.89

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-43—{SSES 33' (10-m) 2001-2006 April JFD - continued}

(Page 1 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS E — CLASS FREQUENCY (PERCENT) = 24.79

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.09	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.19
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.05
.5- 1.0	5	27	41	49	37	25	24	19	23	22	7	1	2	0	1	2	0	285
(1)	.47	2.53	3.84	4.58	3.46	2.34	2.25	1.78	2.15	2.06	.65	.09	.19	.00	.09	.19	.00	26.66
(2)	.12	.63	.95	1.14	.86	.58	.56	.44	.53	.51	.16	.02	.05	.00	.02	.05	.00	6.61
1.1- 1.5	11	46	28	17	7	9	13	17	15	27	12	7	3	0	4	7	0	223
(1)	1.03	4.30	2.62	1.59	.65	.84	1.22	1.59	1.40	2.53	1.12	.65	.28	.00	.37	.65	.00	20.86
(2)	.26	1.07	.65	.39	.16	.21	.30	.39	.35	.63	.28	.16	.07	.00	.09	.16	.00	5.17
1.6- 2.0	17	37	29	8	6	4	5	12	14	25	14	5	5	5	4	2	0	192
(1)	1.59	3.46	2.71	.75	.56	.37	.47	1.12	1.31	2.34	1.31	.47	.47	.47	.37	.19	.00	17.96
(2)	.39	.86	.67	.19	.14	.09	.12	.28	.32	.58	.32	.12	.12	.12	.09	.05	.00	4.45
2.1- 3.0	21	36	37	9	7	9	6	8	26	24	22	11	3	1	4	10	0	234
(1)	1.96	3.37	3.46	.84	.65	.84	.56	.75	2.43	2.25	2.06	1.03	.28	.09	.37	.94	.00	21.89
(2)	.49	.83	.86	.21	.16	.21	.14	.19	.60	.56	.51	.26	.07	.02	.09	.23	.00	5.43
3.1- 4.0	16	10	11	6	3	3	0	1	11	13	16	6	0	1	0	4	0	101
(1)	1.50	.94	1.03	.56	.28	.28	.00	.09	1.03	1.22	1.50	.56	.00	.09	.00	.37	.00	9.45
(2)	.37	.23	.26	.14	.07	.07	.00	.02	.26	.30	.37	.14	.00	.02	.00	.09	.00	2.34
4.1- 5.0	1	0	1	0	2	0	1	0	0	5	8	2	2	1	2	1	0	26
(1)	.09	.00	.09	.00	.19	.00	.09	.00	.00	.47	.75	.19	.19	.09	.19	.09	.00	2.43
(2)	.02	.00	.02	.00	.05	.00	.02	.00	.00	.12	.19	.05	.05	.02	.05	.02	.00	.60
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.47	.00	.00	.00	.00	.00	.00	.47
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12	.00	.00	.00	.00	.00	.00	.12

Table 2.3-43—{SSES 33' (10-m) 2001-2006 April JFD - continued}

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SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 24.79**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.09
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	71	156	148	89	62	50	49	57	90	116	85	32	15	8	15	26	0	1069
(1)	6.64	14.59	13.84	8.33	5.80	4.68	4.58	5.33	8.42	10.85	7.95	2.99	1.40	.75	1.40	2.43	.00	100.00
(2)	1.65	3.62	3.43	2.06	1.44	1.16	1.14	1.32	2.09	2.69	1.97	.74	.35	.19	.35	.60	.00	24.79

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-43—{SSES 33' (10-m) 2001-2006 April JFD - continued}

(Page 1 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 7.33**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	2	4	27	97	39	11	16	9	3	5	7	2	0	1	0	0	0	223
(1)	.63	1.27	8.54	30.70	12.34	3.48	5.06	2.85	.95	1.58	2.22	.63	.00	.32	.00	.00	.00	70.57
(2)	.05	.09	.63	2.25	.90	.26	.37	.21	.07	.12	.16	.05	.00	.02	.00	.00	.00	5.17
1.1- 1.5	0	6	16	23	4	1	0	2	8	5	5	1	1	0	0	0	0	72
(1)	.00	1.90	5.06	7.28	1.27	.32	.00	.63	2.53	1.58	1.58	.32	.32	.00	.00	.00	.00	22.78
(2)	.00	.14	.37	.53	.09	.02	.00	.05	.19	.12	.12	.02	.02	.00	.00	.00	.00	1.67
1.6- 2.0	1	3	2	1	0	1	0	0	3	2	0	2	0	0	0	0	0	15
(1)	.32	.95	.63	.32	.00	.32	.00	.00	.95	.63	.00	.63	.00	.00	.00	.00	.00	4.75
(2)	.02	.07	.05	.02	.00	.02	.00	.00	.07	.05	.00	.05	.00	.00	.00	.00	.00	.35
2.1- 3.0	1	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	4
(1)	.32	.32	.00	.00	.00	.00	.00	.00	.32	.00	.32	.00	.00	.00	.00	.00	.00	1.27
(2)	.02	.02	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	.00	.00	.00	.00	.09
3.1- 4.0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.32	.32	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.63
(2)	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-43—{SSES 33' (10-m) 2001-2006 April JFD - continued}

(Page 2 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 7.33**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	4	15	46	121	43	13	16	11	15	12	13	5	1	1	0	0	0	316
(1)	1.27	4.75	14.56	38.29	13.61	4.11	5.06	3.48	4.75	3.80	4.11	1.58	.32	.32	.00	.00	.00	100.00
(2)	.09	.35	1.07	2.81	1.00	.30	.37	.26	.35	.28	.30	.12	.02	.02	.00	.00	.00	7.33

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-43—{SSES 33' (10-m) 2001-2006 April JFD - continued}

(Page 1 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 9.62**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	6	54	130	37	11	2	5	1	1	0	0	0	0	0	0	0	247
(1)	.00	1.45	13.01	31.33	8.92	2.65	.48	1.20	.24	.24	.00	.00	.00	.00	.00	.00	.00	59.52
(2)	.00	.14	1.25	3.01	.86	.26	.05	.12	.02	.02	.00	.00	.00	.00	.00	.00	.00	5.73
1.1- 1.5	0	3	43	94	4	3	0	1	0	0	0	0	0	0	0	0	0	148
(1)	.00	.72	10.36	22.65	.96	.72	.00	.24	.00	.00	.00	.00	.00	.00	.00	.00	.00	35.66
(2)	.00	.07	1.00	2.18	.09	.07	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.43
1.6- 2.0	0	2	2	16	0	0	0	0	0	0	0	0	0	0	0	0	0	20
(1)	.00	.48	.48	3.86	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.82
(2)	.00	.05	.05	.37	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.46
2.1- 3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-43—{SSES 33' (10-m) 2001-2006 April JFD - continued}

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SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 9.62**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	11	99	240	41	14	2	6	1	1	0	0	0	0	0	0	0	415
(1)	.00	2.65	23.86	57.83	9.88	3.37	.48	1.45	.24	.24	.00	.00	.00	.00	.00	.00	.00	100.00
(2)	.00	.26	2.30	5.57	.95	.32	.05	.14	.02	.02	.00	.00	.00	.00	.00	.00	.00	9.62

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-43—{SSES 33' (10-m) 2001-2006 April JFD - continued}

(Page 1 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.02	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.05
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.05
.5- 1.0	8	38	135	282	126	69	53	39	30	32	15	6	5	2	3	2	0	845
(1)	.19	.88	3.13	6.54	2.92	1.60	1.23	.90	.70	.74	.35	.14	.12	.05	.07	.05	.00	19.60
(2)	.19	.88	3.13	6.54	2.92	1.60	1.23	.90	.70	.74	.35	.14	.12	.05	.07	.05	.00	19.60
1.1- 1.5	24	88	99	154	32	25	27	31	39	46	27	16	8	1	5	12	0	634
(1)	.56	2.04	2.30	3.57	.74	.58	.63	.72	.90	1.07	.63	.37	.19	.02	.12	.28	.00	14.70
(2)	.56	2.04	2.30	3.57	.74	.58	.63	.72	.90	1.07	.63	.37	.19	.02	.12	.28	.00	14.70
1.6- 2.0	26	68	61	41	28	25	25	26	40	42	37	13	13	6	7	7	0	465
(1)	.60	1.58	1.41	.95	.65	.58	.58	.60	.93	.97	.86	.30	.30	.14	.16	.16	.00	10.78
(2)	.60	1.58	1.41	.95	.65	.58	.58	.60	.93	.97	.86	.30	.30	.14	.16	.16	.00	10.78
2.1- 3.0	75	133	109	25	27	36	39	37	77	79	111	46	20	23	26	23	0	886
(1)	1.74	3.08	2.53	.58	.63	.83	.90	.86	1.79	1.83	2.57	1.07	.46	.53	.60	.53	.00	20.55
(2)	1.74	3.08	2.53	.58	.63	.83	.90	.86	1.79	1.83	2.57	1.07	.46	.53	.60	.53	.00	20.55
3.1- 4.0	111	116	60	15	13	21	27	25	42	50	97	35	15	34	38	54	0	753
(1)	2.57	2.69	1.39	.35	.30	.49	.63	.58	.97	1.16	2.25	.81	.35	.79	.88	1.25	.00	17.46
(2)	2.57	2.69	1.39	.35	.30	.49	.63	.58	.97	1.16	2.25	.81	.35	.79	.88	1.25	.00	17.46
4.1- 5.0	55	36	9	2	4	10	16	8	14	20	60	46	28	28	61	49	0	446
(1)	1.28	.83	.21	.05	.09	.23	.37	.19	.32	.46	1.39	1.07	.65	.65	1.41	1.14	.00	10.34
(2)	1.28	.83	.21	.05	.09	.23	.37	.19	.32	.46	1.39	1.07	.65	.65	1.41	1.14	.00	10.34
5.1- 6.0	19	10	1	0	0	1	5	1	1	0	37	39	21	17	36	24	0	212
(1)	.44	.23	.02	.00	.00	.02	.12	.02	.02	.00	.86	.90	.49	.39	.83	.56	.00	4.92
(2)	.44	.23	.02	.00	.00	.02	.12	.02	.02	.00	.86	.90	.49	.39	.83	.56	.00	4.92

Table 2.3-43—{SSES 33' (10-m) 2001-2006 April JFD - continued}

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SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	3	1	0	0	0	0	3	1	1	0	12	13	11	2	12	7	0	66
(1)	.07	.02	.00	.00	.00	.00	.07	.02	.02	.00	.28	.30	.26	.05	.28	.16	.00	1.53
(2)	.07	.02	.00	.00	.00	.00	.07	.02	.02	.00	.28	.30	.26	.05	.28	.16	.00	1.53
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.02	.00	.07
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.02	.00	.07
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	321	490	475	519	230	187	195	168	245	269	396	216	121	113	188	179	0	4312
(1)	7.44	11.36	11.02	12.04	5.33	4.34	4.52	3.90	5.68	6.24	9.18	5.01	2.81	2.62	4.36	4.15	.00	100.00
(2)	7.44	11.36	11.02	12.04	5.33	4.34	4.52	3.90	5.68	6.24	9.18	5.01	2.81	2.62	4.36	4.15	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-44 {SSES 33' (10-m) 2001-2006 May JFD}

(Page 1 of 2)

33.0 FT WIND DATA

SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

STABILITY CLASS A **CLASS FREQUENCY (PERCENT) = 6.86**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.1- 1.5	0	0	3	3	0	1	0	0	4	0	1	1	0	0	1	0	0	14
(1)	.00	.00	1.03	1.03	.00	.34	.00	.00	1.37	.00	.34	.34	.00	.00	.34	.00	.00	4.81
(2)	.00	.00	.07	.07	.00	.02	.00	.00	.09	.00	.02	.02	.00	.00	.02	.00	.00	.33
1.6- 2.0	0	2	5	2	3	6	3	6	3	4	10	1	2	0	0	0	0	47
(1)	.00	.69	1.72	.69	1.03	2.06	1.03	2.06	1.03	1.37	3.44	.34	.69	.00	.00	.00	.00	16.15
(2)	.00	.05	.12	.05	.07	.14	.07	.14	.07	.09	.24	.02	.05	.00	.00	.00	.00	1.11
2.1- 3.0	0	6	6	1	3	2	8	10	5	18	25	4	0	1	0	2	0	91
(1)	.00	2.06	2.06	.34	1.03	.69	2.75	3.44	1.72	6.19	8.59	1.37	.00	.34	.00	.69	.00	31.27
(2)	.00	.14	.14	.02	.07	.05	.19	.24	.12	.42	.59	.09	.00	.02	.00	.05	.00	2.14
3.1- 4.0	6	5	1	0	1	1	0	2	19	10	27	9	0	0	1	1	0	83
(1)	2.06	1.72	.34	.00	.34	.34	.00	.69	6.53	3.44	9.28	3.09	.00	.00	.34	.34	.00	28.52
(2)	.14	.12	.02	.00	.02	.02	.00	.05	.45	.24	.64	.21	.00	.00	.02	.02	.00	1.96
4.1- 5.0	9	4	1	0	0	0	0	1	1	2	12	8	1	2	0	1	0	42
(1)	3.09	1.37	.34	.00	.00	.00	.00	.34	.34	.69	4.12	2.75	.34	.69	.00	.34	.00	14.43
(2)	.21	.09	.02	.00	.00	.00	.00	.02	.02	.05	.28	.19	.02	.05	.00	.02	.00	.99
5.1- 6.0	5	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	9
(1)	1.72	.00	.00	.00	.00	.00	.00	.00	.00	.00	.69	.69	.00	.00	.00	.00	.00	3.09
(2)	.12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.00	.21

Table 2.3-44 {SSES 33' (10-m) 2001-2006 May JFD}

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SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 6.86**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	5
(1)	1.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.34	.00	.00	.00	.00	.34	.00	1.72
(2)	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02	.00	.12
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	23	17	16	6	7	10	11	19	32	34	78	25	3	3	2	5	0	291
(1)	7.90	5.84	5.50	2.06	2.41	3.44	3.78	6.53	11.00	11.68	26.80	8.59	1.03	1.03	.69	1.72	.00	100.00
(2)	.54	.40	.38	.14	.16	.24	.26	.45	.75	.80	1.84	.59	.07	.07	.05	.12	.00	6.86

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIO

Table 2.3-44—{SSES 33' (10-m) 2001-2006 May JFD - continued}

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33.0 FT WIND DATA

SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

STABILITY CLASS B **CLASS FREQUENCY (PERCENT) = 3.91**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.60	.60	.00	.00	.60	.00	.00	.00	.00	.00	.00	1.81
(2)	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.02	.00	.00	.00	.00	.00	.00	.07
1.1- 1.5	0	1	3	2	3	1	1	0	0	2	1	0	0	0	0	0	0	14
(1)	.00	.60	1.81	1.20	1.81	.60	.60	.00	.00	1.20	.60	.00	.00	.00	.00	.00	.00	8.43
(2)	.00	.02	.07	.05	.07	.02	.02	.00	.00	.05	.02	.00	.00	.00	.00	.00	.00	.33
1.6- 2.0	0	1	1	0	4	2	0	1	2	3	4	0	0	0	0	0	0	18
(1)	.00	.60	.60	.00	2.41	1.20	.00	.60	1.20	1.81	2.41	.00	.00	.00	.00	.00	.00	10.84
(2)	.00	.02	.02	.00	.09	.05	.00	.02	.05	.07	.09	.00	.00	.00	.00	.00	.00	.42
2.1- 3.0	0	3	4	2	3	1	4	3	0	5	4	3	1	0	1	0	0	34
(1)	.00	1.81	2.41	1.20	1.81	.60	2.41	1.81	.00	3.01	2.41	1.81	.60	.00	.60	.00	.00	20.48
(2)	.00	.07	.09	.05	.07	.02	.09	.07	.00	.12	.09	.07	.02	.00	.02	.00	.00	.80
3.1- 4.0	4	3	3	1	2	0	1	3	1	4	17	2	1	3	1	1	0	47
(1)	2.41	1.81	1.81	.60	1.20	.00	.60	1.81	.60	2.41	10.24	1.20	.60	1.81	.60	.60	.00	28.31
(2)	.09	.07	.07	.02	.05	.00	.02	.07	.02	.09	.40	.05	.02	.07	.02	.02	.00	1.11
4.1- 5.0	8	0	0	0	1	0	0	0	0	1	13	6	0	2	1	5	0	37
(1)	4.82	.00	.00	.00	.60	.00	.00	.00	.00	.60	7.83	3.61	.00	1.20	.60	3.01	.00	22.29
(2)	.19	.00	.00	.00	.02	.00	.00	.00	.00	.02	.31	.14	.00	.05	.02	.12	.00	.87
5.1- 6.0	1	2	0	0	0	0	0	0	0	0	2	1	0	0	0	3	0	9
(1)	.60	1.20	.00	.00	.00	.00	.00	.00	.00	.00	1.20	.60	.00	.00	.00	1.81	.00	5.42
(2)	.02	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	.02	.00	.00	.00	.07	.00	.21

Table 2.3-44—{SSES 33' (10-m) 2001-2006 May JFD - continued}

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SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.91**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	4
(1)	1.81	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.60	.00	.00	.00	.00	.00	2.41
(2)	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.09
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	16	10	11	5	13	4	7	8	3	15	42	13	2	5	3	9	0	166
(1)	9.64	6.02	6.63	3.01	7.83	2.41	4.22	4.82	1.81	9.04	25.30	7.83	1.20	3.01	1.81	5.42	.00	100.00
(2)	.38	.24	.26	.12	.31	.09	.16	.19	.07	.35	.99	.31	.05	.12	.07	.21	.00	3.91

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-44—{SSES 33' (10-m) 2001-2006 May JFD - continued}

(Page 1 of 2)

SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS C — CLASS FREQUENCY (PERCENT) = 5.72

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	1	0	1	0	2	0	0	0	0	0	0	0	0	0	4
(1)	.00	.00	.00	.41	.00	.41	.00	.82	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.65
(2)	.00	.00	.00	.02	.00	.02	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
1.1- 1.5	1	1	1	2	2	2	1	1	1	1	2	0	0	0	0	1	0	16
(1)	.41	.41	.41	.82	.82	.82	.41	.41	.41	.41	.82	.00	.00	.00	.00	.41	.00	6.58
(2)	.02	.02	.02	.05	.05	.05	.02	.02	.02	.02	.05	.00	.00	.00	.00	.02	.00	.38
1.6- 2.0	1	0	1	2	2	2	1	1	4	5	3	1	0	0	0	0	0	23
(1)	.41	.00	.41	.82	.82	.82	.41	.41	1.65	2.06	1.23	.41	.00	.00	.00	.00	.00	9.47
(2)	.02	.00	.02	.05	.05	.05	.02	.02	.09	.12	.07	.02	.00	.00	.00	.00	.00	.54
2.1- 3.0	3	3	5	3	4	2	4	1	3	14	21	3	1	0	0	3	0	70
(1)	1.23	1.23	2.06	1.23	1.65	.82	1.65	.41	1.23	5.76	8.64	1.23	.41	.00	.00	1.23	.00	28.81
(2)	.07	.07	.12	.07	.09	.05	.09	.02	.07	.33	.49	.07	.02	.00	.00	.07	.00	1.65
3.1- 4.0	8	4	1	2	2	3	6	3	3	2	16	5	2	4	3	1	0	65
(1)	3.29	1.65	.41	.82	.82	1.23	2.47	1.23	1.23	.82	6.58	2.06	.82	1.65	1.23	.41	.00	26.75
(2)	.19	.09	.02	.05	.05	.07	.14	.07	.07	.05	.38	.12	.05	.09	.07	.02	.00	1.53
4.1- 5.0	3	2	0	0	0	0	0	1	0	1	10	8	1	3	0	6	0	35
(1)	1.23	.82	.00	.00	.00	.00	.00	.41	.00	.41	4.12	3.29	.41	1.23	.00	2.47	.00	14.40
(2)	.07	.05	.00	.00	.00	.00	.00	.02	.00	.02	.24	.19	.02	.07	.00	.14	.00	.82
5.1- 6.0	3	1	0	0	0	0	0	0	0	0	2	6	2	0	1	5	0	20
(1)	1.23	.41	.00	.00	.00	.00	.00	.00	.00	.00	.82	2.47	.82	.00	.41	2.06	.00	8.23
(2)	.07	.02	.00	.00	.00	.00	.00	.00	.00	.00	.05	.14	.05	.00	.02	.12	.00	.47

Table 2.3-44—{SSES 33' (10-m) 2001-2006 May JFD - continued}

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SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 5.72**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	0	0	0	0	0	0	0	0	0	1	7	0	0	0	1	0	10
(1)	.41	.00	.00	.00	.00	.00	.00	.00	.00	.00	.41	2.88	.00	.00	.00	.41	.00	4.12
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.16	.00	.00	.00	.02	.00	.24
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	20	11	8	10	10	10	12	9	11	23	55	30	6	7	4	17	0	243
(1)	8.23	4.53	3.29	4.12	4.12	4.12	4.94	3.70	4.53	9.47	22.63	12.35	2.47	2.88	1.65	7.00	.00	100.00
(2)	.47	.26	.19	.24	.24	.24	.28	.21	.26	.54	1.30	.71	.14	.16	.09	.40	.00	5.72

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-44—{SSES 33' (10-m) 2001-2006 May JFD - continued}

(Page 1 of 2)

SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 38.78**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	1	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	5
(1)	.06	.00	.06	.06	.12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30
(2)	.02	.00	.02	.02	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12
.2- .4	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.00	.06	.00	.06	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18
(2)	.00	.00	.00	.02	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
.5- 1.0	1	6	13	14	21	19	16	8	12	4	1	1	0	1	1	0	0	118
(1)	.06	.36	.79	.85	1.28	1.15	.97	.49	.73	.24	.06	.06	.00	.06	.06	.00	.00	7.17
(2)	.02	.14	.31	.33	.49	.45	.38	.19	.28	.09	.02	.02	.00	.02	.02	.00	.00	2.78
1.1- 1.5	2	14	31	16	23	8	18	17	24	28	25	7	3	2	2	1	0	221
(1)	.12	.85	1.88	.97	1.40	.49	1.09	1.03	1.46	1.70	1.52	.43	.18	.12	.12	.06	.00	13.43
(2)	.05	.33	.73	.38	.54	.19	.42	.40	.57	.66	.59	.16	.07	.05	.05	.02	.00	5.21
1.6- 2.0	11	27	38	14	18	18	25	15	16	25	19	10	6	2	4	2	0	250
(1)	.67	1.64	2.31	.85	1.09	1.09	1.52	.91	.97	1.52	1.15	.61	.36	.12	.24	.12	.00	15.19
(2)	.26	.64	.90	.33	.42	.42	.59	.35	.38	.59	.45	.24	.14	.05	.09	.05	.00	5.89
2.1- 3.0	39	56	35	24	20	32	23	26	20	50	60	26	14	15	15	14	0	469
(1)	2.37	3.40	2.13	1.46	1.22	1.94	1.40	1.58	1.22	3.04	3.65	1.58	.85	.91	.91	.85	.00	28.49
(2)	.92	1.32	.82	.57	.47	.75	.54	.61	.47	1.18	1.41	.61	.33	.35	.35	.33	.00	11.05
3.1- 4.0	45	33	1	3	9	11	13	13	15	7	48	28	19	15	25	28	0	313
(1)	2.73	2.00	.06	.18	.55	.67	.79	.79	.91	.43	2.92	1.70	1.15	.91	1.52	1.70	.00	19.02
(2)	1.06	.78	.02	.07	.21	.26	.31	.31	.35	.16	1.13	.66	.45	.35	.59	.66	.00	7.37
4.1- 5.0	23	11	0	1	7	5	0	2	6	1	36	17	12	7	19	22	0	169
(1)	1.40	.67	.00	.06	.43	.30	.00	.12	.36	.06	2.19	1.03	.73	.43	1.15	1.34	.00	10.27
(2)	.54	.26	.00	.02	.16	.12	.00	.05	.14	.02	.85	.40	.28	.16	.45	.52	.00	3.98
5.1- 6.0	2	1	0	1	4	3	0	1	0	0	12	17	14	8	3	4	0	70
(1)	.12	.06	.00	.06	.24	.18	.00	.06	.00	.00	.73	1.03	.85	.49	.18	.24	.00	4.25
(2)	.05	.02	.00	.02	.09	.07	.00	.02	.00	.00	.28	.40	.33	.19	.07	.09	.00	1.65

Table 2.3-44—{SSES 33' (10-m) 2001-2006 May JFD - continued}

(Page 2 of 2)

SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 38.78**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	1	0	0	1	0	1	8	5	9	2	1	0	28
(1)	.00	.00	.00	.00	.00	.06	.00	.00	.06	.00	.06	.49	.30	.55	.12	.06	.00	1.70
(2)	.00	.00	.00	.00	.00	.02	.00	.00	.02	.00	.02	.19	.12	.21	.05	.02	.00	.66
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	124	148	119	75	104	98	96	82	94	115	202	114	73	59	71	72	0	1646
(1)	7.53	8.99	7.23	4.56	6.32	5.95	5.83	4.98	5.71	6.99	12.27	6.93	4.43	3.58	4.31	4.37	.00	100.00
(2)	2.92	3.49	2.80	1.77	2.45	2.31	2.26	1.93	2.21	2.71	4.76	2.69	1.72	1.39	1.67	1.70	.00	38.78

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-44—{SSES 33' (10-m) 2001-2006 May JFD - continued}

(Page 1 of 2)

SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 26.12**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	2	3	2	1	0	0	0	1	0	0	0	0	0	0	0	9
(1)	.00	.00	.18	.27	.18	.09	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.81
(2)	.00	.00	.05	.07	.05	.02	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.21
.2- .4	0	0	1	0	1	1	0	1	0	2	0	0	0	0	0	0	0	6
(1)	.00	.00	.09	.00	.09	.09	.00	.09	.00	.18	.00	.00	.00	.00	.00	.00	.00	.54
(2)	.00	.00	.02	.00	.02	.02	.00	.02	.00	.05	.00	.00	.00	.00	.00	.00	.00	.14
.5- 1.0	7	17	49	94	76	50	38	30	17	14	5	1	1	2	1	3	0	405
(1)	.63	1.53	4.42	8.48	6.85	4.51	3.43	2.71	1.53	1.26	.45	.09	.09	.18	.09	.27	.00	36.52
(2)	.16	.40	1.15	2.21	1.79	1.18	.90	.71	.40	.33	.12	.02	.02	.05	.02	.07	.00	9.54
1.1- 1.5	8	33	59	40	14	11	18	13	54	33	12	4	4	1	1	4	0	309
(1)	.72	2.98	5.32	3.61	1.26	.99	1.62	1.17	4.87	2.98	1.08	.36	.36	.09	.09	.36	.00	27.86
(2)	.19	.78	1.39	.94	.33	.26	.42	.31	1.27	.78	.28	.09	.09	.02	.02	.09	.00	7.28
1.6- 2.0	14	27	23	11	4	2	7	17	13	30	16	3	4	0	3	3	0	177
(1)	1.26	2.43	2.07	.99	.36	.18	.63	1.53	1.17	2.71	1.44	.27	.36	.00	.27	.27	.00	15.96
(2)	.33	.64	.54	.26	.09	.05	.16	.40	.31	.71	.38	.07	.09	.00	.07	.07	.00	4.17
2.1- 3.0	15	15	13	3	7	4	8	5	14	10	17	10	5	2	7	17	0	152
(1)	1.35	1.35	1.17	.27	.63	.36	.72	.45	1.26	.90	1.53	.90	.45	.18	.63	1.53	.00	13.71
(2)	.35	.35	.31	.07	.16	.09	.19	.12	.33	.24	.40	.24	.12	.05	.16	.40	.00	3.58
3.1- 4.0	4	5	1	0	0	1	1	0	6	3	6	2	1	1	4	8	0	43
(1)	.36	.45	.09	.00	.00	.09	.09	.00	.54	.27	.54	.18	.09	.09	.36	.72	.00	3.88
(2)	.09	.12	.02	.00	.00	.02	.02	.00	.14	.07	.14	.05	.02	.02	.09	.19	.00	1.01
4.1- 5.0	0	0	0	0	2	0	0	0	0	1	0	1	1	0	0	1	0	6
(1)	.00	.00	.00	.00	.18	.00	.00	.00	.00	.09	.00	.09	.09	.00	.00	.09	.00	.54
(2)	.00	.00	.00	.00	.05	.00	.00	.00	.00	.02	.00	.02	.02	.00	.00	.02	.00	.14
5.1- 6.0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.09
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.02

Table 2.3-44—{SSES 33' (10-m) 2001-2006 May JFD - continued}

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SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 26.12**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.09
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	48	97	148	151	106	70	72	66	105	94	57	21	16	6	16	36	0	1109
(1)	4.33	8.75	13.35	13.62	9.56	6.31	6.49	5.95	9.47	8.48	5.14	1.89	1.44	.54	1.44	3.25	.00	100.00
(2)	1.13	2.29	3.49	3.56	2.50	1.65	1.70	1.55	2.47	2.21	1.34	.49	.38	.14	.38	.85	.00	26.12

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-44—{SSES 33' (10-m) 2001-2006 May JFD - continued}

(Page 1 of 2)

SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 11.99**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.20	.20	.20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.59
(2)	.00	.00	.02	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
.2- .4	0	2	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	5
(1)	.00	.39	.00	.20	.20	.20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.98
(2)	.00	.05	.00	.02	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12
.5- 1.0	1	7	35	122	76	32	19	11	14	6	1	0	3	0	1	0	0	328
(1)	.20	1.38	6.88	23.97	14.93	6.29	3.73	2.16	2.75	1.18	.20	.00	.59	.00	.20	.00	.00	64.44
(2)	.02	.16	.82	2.87	1.79	.75	.45	.26	.33	.14	.02	.00	.07	.00	.02	.00	.00	7.73
1.1- 1.5	1	7	37	65	2	1	3	7	7	5	8	1	0	0	0	0	0	144
(1)	.20	1.38	7.27	12.77	.39	.20	.59	1.38	1.38	.98	1.57	.20	.00	.00	.00	.00	.00	28.29
(2)	.02	.16	.87	1.53	.05	.02	.07	.16	.16	.12	.19	.02	.00	.00	.00	.00	.00	3.39
1.6- 2.0	2	2	5	5	1	0	0	1	0	3	2	0	0	0	1	0	0	22
(1)	.39	.39	.98	.98	.20	.00	.00	.20	.00	.59	.39	.00	.00	.00	.20	.00	.00	4.32
(2)	.05	.05	.12	.12	.02	.00	.00	.02	.00	.07	.05	.00	.00	.00	.02	.00	.00	.52
2.1- 3.0	1	1	1	0	0	0	0	0	0	0	2	0	1	0	0	0	0	6
(1)	.20	.20	.20	.00	.00	.00	.00	.00	.00	.00	.39	.00	.20	.00	.00	.00	.00	1.18
(2)	.02	.02	.02	.00	.00	.00	.00	.00	.00	.00	.05	.00	.02	.00	.00	.00	.00	.14
3.1- 4.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-44—{SSES 33' (10-m) 2001-2006 May JFD - continued}

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SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 11.99**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	6	19	79	194	81	34	22	19	21	14	13	1	4	0	2	0	0	509
(1)	1.18	3.73	15.52	38.11	15.91	6.68	4.32	3.73	4.13	2.75	2.55	.20	.79	.00	.39	.00	.00	100.00
(2)	.14	.45	1.86	4.57	1.91	.80	.52	.45	.49	.33	.31	.02	.09	.00	.05	.00	.00	11.99

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-44—{SSES 33' (10-m) 2001-2006 May JFD - continued}

(Page 1 of 2)

SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 6.62**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.36	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.36
(2)	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.2- .4	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.36	.36	.36	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.07
(2)	.00	.00	.00	.00	.02	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
.5- 1.0	0	1	23	94	35	12	5	4	1	2	0	0	0	0	0	0	0	177
(1)	.00	.36	8.19	33.45	12.46	4.27	1.78	1.42	.36	.71	.00	.00	.00	.00	.00	.00	.00	62.99
(2)	.00	.02	.54	2.21	.82	.28	.12	.09	.02	.05	.00	.00	.00	.00	.00	.00	.00	4.17
1.1- 1.5	0	0	14	74	1	0	0	0	3	1	0	0	0	0	0	1	0	94
(1)	.00	.00	4.98	26.33	.36	.00	.00	.00	1.07	.36	.00	.00	.00	.00	.00	.36	.00	33.45
(2)	.00	.00	.33	1.74	.02	.00	.00	.00	.07	.02	.00	.00	.00	.00	.00	.02	.00	2.21
1.6- 2.0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4
(1)	.00	.00	1.07	.36	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.42
(2)	.00	.00	.07	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
2.1- 3.0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.71	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.71
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-44—{SSES 33' (10-m) 2001-2006 May JFD - continued}

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SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 6.62**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	3	40	170	37	13	6	4	4	3	0	0	0	0	0	1	0	281
(1)	.00	1.07	14.23	60.50	13.17	4.63	2.14	1.42	1.42	1.07	.00	.00	.00	.00	.00	.36	.00	100.00
(2)	.00	.07	.94	4.00	.87	.31	.14	.09	.09	.07	.00	.00	.00	.00	.00	.02	.00	6.62

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-44—{SSES 33' (10-m) 2001-2006 May JFD - continued}

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SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	1	0	4	6	5	1	0	0	0	1	0	0	0	0	0	0	0	18
(1)	.02	.00	.09	.14	.12	.02	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.42
(2)	.02	.00	.09	.14	.12	.02	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.42
.2- .4	0	2	1	2	3	4	2	1	0	2	0	0	0	0	0	0	0	17
(1)	.00	.05	.02	.05	.07	.09	.05	.02	.00	.05	.00	.00	.00	.00	.00	.00	.00	.40
(2)	.00	.05	.02	.05	.07	.09	.05	.02	.00	.05	.00	.00	.00	.00	.00	.00	.00	.40
.5- 1.0	9	31	120	325	208	114	79	56	44	26	8	2	4	3	3	3	0	1035
(1)	.21	.73	2.83	7.66	4.90	2.69	1.86	1.32	1.04	.61	.19	.05	.09	.07	.07	.07	.00	24.38
(2)	.21	.73	2.83	7.66	4.90	2.69	1.86	1.32	1.04	.61	.19	.05	.09	.07	.07	.07	.00	24.38
1.1- 1.5	12	56	148	202	45	24	41	38	93	70	49	13	7	3	4	7	0	812
(1)	.28	1.32	3.49	4.76	1.06	.57	.97	.90	2.19	1.65	1.15	.31	.16	.07	.09	.16	.00	19.13
(2)	.28	1.32	3.49	4.76	1.06	.57	.97	.90	2.19	1.65	1.15	.31	.16	.07	.09	.16	.00	19.13
1.6- 2.0	28	59	76	35	32	30	36	41	38	70	54	15	12	2	8	5	0	541
(1)	.66	1.39	1.79	.82	.75	.71	.85	.97	.90	1.65	1.27	.35	.28	.05	.19	.12	.00	12.74
(2)	.66	1.39	1.79	.82	.75	.71	.85	.97	.90	1.65	1.27	.35	.28	.05	.19	.12	.00	12.74
2.1- 3.0	58	86	64	33	37	41	47	45	42	97	129	46	22	18	23	36	0	824
(1)	1.37	2.03	1.51	.78	.87	.97	1.11	1.06	.99	2.29	3.04	1.08	.52	.42	.54	.85	.00	19.41
(2)	1.37	2.03	1.51	.78	.87	.97	1.11	1.06	.99	2.29	3.04	1.08	.52	.42	.54	.85	.00	19.41
3.1- 4.0	68	50	7	6	14	16	21	21	44	26	114	46	23	23	34	39	0	552
(1)	1.60	1.18	.16	.14	.33	.38	.49	.49	1.04	.61	2.69	1.08	.54	.54	.80	.92	.00	13.00
(2)	1.60	1.18	.16	.14	.33	.38	.49	.49	1.04	.61	2.69	1.08	.54	.54	.80	.92	.00	13.00
4.1- 5.0	43	17	1	1	10	5	0	4	7	6	71	40	15	14	20	35	0	289
(1)	1.01	.40	.02	.02	.24	.12	.00	.09	.16	.14	1.67	.94	.35	.33	.47	.82	.00	6.81
(2)	1.01	.40	.02	.02	.24	.12	.00	.09	.16	.14	1.67	.94	.35	.33	.47	.82	.00	6.81
5.1- 6.0	11	4	0	1	4	3	0	1	1	0	18	26	16	8	4	12	0	109
(1)	.26	.09	.00	.02	.09	.07	.00	.02	.02	.00	.42	.61	.38	.19	.09	.28	.00	2.57
(2)	.26	.09	.00	.02	.09	.07	.00	.02	.02	.00	.42	.61	.38	.19	.09	.28	.00	2.57

Table 2.3-44—{SSES 33' (10-m) 2001-2006 May JFD - continued}

(Page 2 of 2)

33.0 FT WIND DATA

SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

STABILITY CLASS ALL **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	7	0	0	0	0	1	0	0	1	0	4	16	5	9	2	3	0	48
(1)	.16	.00	.00	.00	.00	.02	.00	.00	.02	.00	.09	.38	.12	.21	.05	.07	.00	1.13
(2)	.16	.00	.00	.00	.00	.02	.00	.00	.02	.00	.09	.38	.12	.21	.05	.07	.00	1.13
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	237	305	421	611	358	239	226	207	270	298	447	204	104	80	98	140	0	4245
(1)	5.58	7.18	9.92	14.39	8.43	5.63	5.32	4.88	6.36	7.02	10.53	4.81	2.45	1.88	2.31	3.30	.00	100.00
(2)	5.58	7.18	9.92	14.39	8.43	5.63	5.32	4.88	6.36	7.02	10.53	4.81	2.45	1.88	2.31	3.30	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-45 {SSES 33' (10-m) 2001-2006 June JFD}
(Page 1 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS A — CLASS FREQUENCY (PERCENT) = 8.43

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	1	1	4	2	0	0	0	0	0	0	0	0	0	8
(1)	.00	.00	.00	.00	.27	.27	1.10	.55	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.20
(2)	.00	.00	.00	.00	.02	.02	.09	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19
1.1- 1.5	0	2	2	1	2	7	3	7	5	7	3	1	2	0	0	1	0	43
(1)	.00	.55	.55	.27	.55	1.92	.82	1.92	1.37	1.92	.82	.27	.55	.00	.00	.27	.00	11.81
(2)	.00	.05	.05	.02	.05	.16	.07	.16	.12	.16	.07	.02	.05	.00	.00	.02	.00	1.00
1.6- 2.0	1	1	1	3	7	1	5	6	1	8	7	3	1	0	0	2	0	47
(1)	.27	.27	.27	.82	1.92	.27	1.37	1.65	.27	2.20	1.92	.82	.27	.00	.00	.55	.00	12.91
(2)	.02	.02	.02	.07	.16	.02	.12	.14	.02	.19	.16	.07	.02	.00	.00	.05	.00	1.09
2.1- 3.0	2	6	11	3	2	1	5	0	4	25	53	7	3	1	0	1	0	124
(1)	.55	1.65	3.02	.82	.55	.27	1.37	.00	1.10	6.87	14.56	1.92	.82	.27	.00	.27	.00	34.07
(2)	.05	.14	.25	.07	.05	.02	.12	.00	.09	.58	1.23	.16	.07	.02	.00	.02	.00	2.87
3.1- 4.0	0	1	0	0	0	0	4	1	1	15	57	14	2	0	2	0	0	97
(1)	.00	.27	.00	.00	.00	.00	1.10	.27	.27	4.12	15.66	3.85	.55	.00	.55	.00	.00	26.65
(2)	.00	.02	.00	.00	.00	.00	.09	.02	.02	.35	1.32	.32	.05	.00	.05	.00	.00	2.25
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	16	14	3	0	1	1	0	35
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.40	3.85	.82	.00	.27	.27	.00	9.62
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.37	.32	.07	.00	.02	.02	.00	.81
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	1	5	1	0	1	1	0	9
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.27	1.37	.27	.00	.27	.27	.00	2.47
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.12	.02	.00	.02	.02	.00	.21

Table 2.3-45 {SSES 33' (10-m) 2001-2006 June JFD}

(Page 2 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 8.43**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.27	.00	.00	.00	.00	.00	.27
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	3	10	14	7	12	10	21	16	11	55	137	45	12	1	4	6	0	364
(1)	.82	2.75	3.85	1.92	3.30	2.75	5.77	4.40	3.02	15.11	37.64	12.36	3.30	.27	1.10	1.65	.00	100.00
(2)	.07	.23	.32	.16	.28	.23	.49	.37	.25	1.27	3.17	1.04	.28	.02	.09	.14	.00	8.43

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-45—{SSES 33' (10-m) 2001-2006 June JFD - continued}

(Page 1 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 4.54**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	1	0	1	1	2	3	1	0	1	0	0	0	0	0	0	0	0	10
(1)	.51	.00	.51	.51	1.02	1.53	.51	.00	.51	.00	.00	.00	.00	.00	.00	.00	.00	5.10
(2)	.02	.00	.02	.02	.05	.07	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.23
1.1- 1.5	1	0	1	6	2	2	4	2	4	1	3	1	0	0	0	0	0	27
(1)	.51	.00	.51	3.06	1.02	1.02	2.04	1.02	2.04	.51	1.53	.51	.00	.00	.00	.00	.00	13.78
(2)	.02	.00	.02	.14	.05	.05	.09	.05	.09	.02	.07	.02	.00	.00	.00	.00	.00	.62
1.6- 2.0	3	1	1	1	0	0	3	2	0	3	2	0	0	0	0	1	0	17
(1)	1.53	.51	.51	.51	.00	.00	1.53	1.02	.00	1.53	1.02	.00	.00	.00	.00	.51	.00	8.67
(2)	.07	.02	.02	.02	.00	.00	.07	.05	.00	.07	.05	.00	.00	.00	.00	.02	.00	.39
2.1- 3.0	2	7	10	2	1	0	2	0	2	12	18	5	2	0	0	0	0	63
(1)	1.02	3.57	5.10	1.02	.51	.00	1.02	.00	1.02	6.12	9.18	2.55	1.02	.00	.00	.00	.00	32.14
(2)	.05	.16	.23	.05	.02	.00	.05	.00	.05	.28	.42	.12	.05	.00	.00	.00	.00	1.46
3.1- 4.0	3	0	0	0	0	0	0	0	0	0	34	8	5	1	2	4	0	57
(1)	1.53	.00	.00	.00	.00	.00	.00	.00	.00	.00	17.35	4.08	2.55	.51	1.02	2.04	.00	29.08
(2)	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.79	.19	.12	.02	.05	.09	.00	1.32
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	8	3	4	0	0	1	0	16
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.08	1.53	2.04	.00	.00	.51	.00	8.16
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.07	.09	.00	.00	.02	.00	.37
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	1	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.51	2.04	.00	.00	.00	.51	.00	3.06
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.09	.00	.00	.00	.02	.00	.14

Table 2.3-45—{SSES 33' (10-m) 2001-2006 June JFD - continued}

(Page 2 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 4.54**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	10	8	13	10	5	5	10	4	7	16	66	21	11	1	2	7	0	196
(1)	5.10	4.08	6.63	5.10	2.55	2.55	5.10	2.04	3.57	8.16	33.67	10.71	5.61	.51	1.02	3.57	.00	100.00
(2)	.23	.19	.30	.23	.12	.12	.23	.09	.16	.37	1.53	.49	.25	.02	.05	.16	.00	4.54

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-45—{SSES 33' (10-m) 2001-2006 June JFD - continued}
(Page 1 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 5.37**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	1	2	0	2	4	0	1	0	1	0	0	0	0	0	0	0	11
(1)	.00	.43	.86	.00	.86	1.72	.00	.43	.00	.43	.00	.00	.00	.00	.00	.00	.00	4.74
(2)	.00	.02	.05	.00	.05	.09	.00	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.25
1.1- 1.5	1	4	0	4	3	0	3	1	3	3	1	0	0	0	0	1	0	24
(1)	.43	1.72	.00	1.72	1.29	.00	1.29	.43	1.29	1.29	.43	.00	.00	.00	.00	.43	.00	10.34
(2)	.02	.09	.00	.09	.07	.00	.07	.02	.07	.07	.02	.00	.00	.00	.00	.02	.00	.56
1.6- 2.0	2	4	7	3	1	1	1	1	1	4	6	1	1	2	0	1	0	36
(1)	.86	1.72	3.02	1.29	.43	.43	.43	.43	.43	1.72	2.59	.43	.43	.86	.00	.43	.00	15.52
(2)	.05	.09	.16	.07	.02	.02	.02	.02	.02	.09	.14	.02	.02	.05	.00	.02	.00	.83
2.1- 3.0	6	4	1	3	0	2	0	1	2	7	27	6	2	0	1	6	0	68
(1)	2.59	1.72	.43	1.29	.00	.86	.00	.43	.86	3.02	11.64	2.59	.86	.00	.43	2.59	.00	29.31
(2)	.14	.09	.02	.07	.00	.05	.00	.02	.05	.16	.63	.14	.05	.00	.02	.14	.00	1.57
3.1- 4.0	2	0	0	0	0	0	0	0	1	2	30	6	2	0	1	4	0	48
(1)	.86	.00	.00	.00	.00	.00	.00	.00	.43	.86	12.93	2.59	.86	.00	.43	1.72	.00	20.69
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.02	.05	.69	.14	.05	.00	.02	.09	.00	1.11
4.1- 5.0	1	0	0	0	0	0	0	0	0	0	8	12	4	1	3	2	0	31
(1)	.43	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.45	5.17	1.72	.43	1.29	.86	.00	13.36
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.28	.09	.02	.07	.05	.00	.72
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	5	4	0	14
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.29	.86	.00	.00	2.16	1.72	.00	6.03
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.05	.00	.00	.12	.09	.00	.32

Table 2.3-45—{SSES 33' (10-m) 2001-2006 June JFD - continued}

(Page 2 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 5.37**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	12	13	10	10	6	7	4	4	7	17	75	27	9	3	10	18	0	232
(1)	5.17	5.60	4.31	4.31	2.59	3.02	1.72	1.72	3.02	7.33	32.33	11.64	3.88	1.29	4.31	7.76	.00	100.00
(2)	.28	.30	.23	.23	.14	.16	.09	.09	.16	.39	1.74	.62	.21	.07	.23	.42	.00	5.37

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-45—{SSES 33' (10-m) 2001-2006 June JFD - continued}

(Page 1 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 33.24**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
(2)	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	2	4	25	31	42	27	30	11	14	14	9	0	1	0	2	0	0	212
(1)	.14	.28	1.74	2.16	2.92	1.88	2.09	.77	.97	.97	.63	.00	.07	.00	.14	.00	.00	14.76
(2)	.05	.09	.58	.72	.97	.63	.69	.25	.32	.32	.21	.00	.02	.00	.05	.00	.00	4.91
1.1- 1.5	17	31	37	28	20	12	19	17	33	44	27	8	3	3	3	2	0	304
(1)	1.18	2.16	2.58	1.95	1.39	.84	1.32	1.18	2.30	3.06	1.88	.56	.21	.21	.21	.14	.00	21.17
(2)	.39	.72	.86	.65	.46	.28	.44	.39	.76	1.02	.63	.19	.07	.07	.07	.05	.00	7.04
1.6- 2.0	26	36	21	6	7	13	20	14	17	43	42	12	9	2	2	6	0	276
(1)	1.81	2.51	1.46	.42	.49	.91	1.39	.97	1.18	2.99	2.92	.84	.63	.14	.14	.42	.00	19.22
(2)	.60	.83	.49	.14	.16	.30	.46	.32	.39	1.00	.97	.28	.21	.05	.05	.14	.00	6.39
2.1- 3.0	29	32	27	7	6	5	20	25	25	47	80	28	8	12	12	31	0	394
(1)	2.02	2.23	1.88	.49	.42	.35	1.39	1.74	1.74	3.27	5.57	1.95	.56	.84	.84	2.16	.00	27.44
(2)	.67	.74	.63	.16	.14	.12	.46	.58	.58	1.09	1.85	.65	.19	.28	.28	.72	.00	9.12
3.1- 4.0	10	12	2	0	0	1	1	0	1	4	59	27	15	5	21	16	0	174
(1)	.70	.84	.14	.00	.00	.07	.07	.00	.07	.28	4.11	1.88	1.04	.35	1.46	1.11	.00	12.12
(2)	.23	.28	.05	.00	.00	.02	.02	.00	.02	.09	1.37	.63	.35	.12	.49	.37	.00	4.03
4.1- 5.0	3	0	0	0	0	0	0	0	0	0	11	19	2	1	13	16	0	65
(1)	.21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.77	1.32	.14	.07	.91	1.11	.00	4.53
(2)	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25	.44	.05	.02	.30	.37	.00	1.50
5.1- 6.0	2	0	0	0	0	0	0	0	0	0	2	4	0	0	0	1	0	9
(1)	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.28	.00	.00	.00	.07	.00	.63
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.09	.00	.00	.00	.02	.00	.21

Table 2.3-45—{SSES 33' (10-m) 2001-2006 June JFD - continued}

(Page 2 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 33.24**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.07
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	89	115	112	72	75	59	90	67	90	152	230	99	38	23	53	72	0	1436
(1)	6.20	8.01	7.80	5.01	5.22	4.11	6.27	4.67	6.27	10.58	16.02	6.89	2.65	1.60	3.69	5.01	.00	100.00
(2)	2.06	2.66	2.59	1.67	1.74	1.37	2.08	1.55	2.08	3.52	5.32	2.29	.88	.53	1.23	1.67	.00	33.24

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-45—{SSES 33' (10-m) 2001-2006 June JFD - continued}

(Page 1 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 28.13**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	4	2	0	1	0	0	0	0	0	0	0	0	0	7
(1)	.00	.00	.00	.00	.33	.16	.00	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.58
(2)	.00	.00	.00	.00	.09	.05	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16
.5- 1.0	10	24	63	105	94	62	49	31	36	10	5	2	1	4	0	1	0	497
(1)	.82	1.98	5.19	8.64	7.74	5.10	4.03	2.55	2.96	.82	.41	.16	.08	.33	.00	.08	.00	40.91
(2)	.23	.56	1.46	2.43	2.18	1.44	1.13	.72	.83	.23	.12	.05	.02	.09	.00	.02	.00	11.50
1.1- 1.5	12	45	61	44	13	10	24	24	50	55	18	9	2	1	4	1	0	373
(1)	.99	3.70	5.02	3.62	1.07	.82	1.98	1.98	4.12	4.53	1.48	.74	.16	.08	.33	.08	.00	30.70
(2)	.28	1.04	1.41	1.02	.30	.23	.56	.56	1.16	1.27	.42	.21	.05	.02	.09	.02	.00	8.63
1.6- 2.0	16	36	18	7	1	5	4	7	19	40	12	5	2	1	2	5	0	180
(1)	1.32	2.96	1.48	.58	.08	.41	.33	.58	1.56	3.29	.99	.41	.16	.08	.16	.41	.00	14.81
(2)	.37	.83	.42	.16	.02	.12	.09	.16	.44	.93	.28	.12	.05	.02	.05	.12	.00	4.17
2.1- 3.0	17	26	1	0	0	0	4	4	5	18	23	2	2	5	5	9	0	121
(1)	1.40	2.14	.08	.00	.00	.00	.33	.33	.41	1.48	1.89	.16	.16	.41	.41	.74	.00	9.96
(2)	.39	.60	.02	.00	.00	.00	.09	.09	.12	.42	.53	.05	.05	.12	.12	.21	.00	2.80
3.1- 4.0	4	4	1	0	0	0	1	0	0	1	9	2	2	2	1	5	0	32
(1)	.33	.33	.08	.00	.00	.00	.08	.00	.00	.08	.74	.16	.16	.16	.08	.41	.00	2.63
(2)	.09	.09	.02	.00	.00	.00	.02	.00	.00	.02	.21	.05	.05	.05	.02	.12	.00	.74
4.1- 5.0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	1	1	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.16	.00	.00	.00	.08	.08	.00	.41
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.05	.00	.00	.00	.02	.02	.00	.12
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-45—{SSES 33' (10-m) 2001-2006 June JFD - continued}

(Page 2 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 28.13**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	59	135	144	156	112	79	82	68	110	124	69	20	9	13	13	22	0	1215
(1)	4.86	11.11	11.85	12.84	9.22	6.50	6.75	5.60	9.05	10.21	5.68	1.65	.74	1.07	1.07	1.81	.00	100.00
(2)	1.37	3.13	3.33	3.61	2.59	1.83	1.90	1.57	2.55	2.87	1.60	.46	.21	.30	.30	.51	.00	28.12

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-45—{SSES 33' (10-m) 2001-2006 June JFD - continued}

(Page 1 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 14.31**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	2	3	0	2	0	0	0	0	0	0	0	0	0	0	7
(1)	.00	.00	.00	.32	.49	.00	.32	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.13
(2)	.00	.00	.00	.05	.07	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16
.5- 1.0	1	5	31	204	104	28	19	9	8	2	0	0	0	0	1	0	0	412
(1)	.16	.81	5.02	33.01	16.83	4.53	3.07	1.46	1.29	.32	.00	.00	.00	.00	.16	.00	.00	66.67
(2)	.02	.12	.72	4.72	2.41	.65	.44	.21	.19	.05	.00	.00	.00	.00	.02	.00	.00	9.54
1.1- 1.5	3	8	24	114	4	0	2	5	7	12	1	0	0	1	1	0	0	182
(1)	.49	1.29	3.88	18.45	.65	.00	.32	.81	1.13	1.94	.16	.00	.00	.16	.16	.00	.00	29.45
(2)	.07	.19	.56	2.64	.09	.00	.05	.12	.16	.28	.02	.00	.00	.02	.02	.00	.00	4.21
1.6- 2.0	3	1	2	7	0	0	0	0	0	0	2	0	0	0	0	0	0	15
(1)	.49	.16	.32	1.13	.00	.00	.00	.00	.00	.00	.32	.00	.00	.00	.00	.00	.00	2.43
(2)	.07	.02	.05	.16	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.35
2.1- 3.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16	.00	.00	.16
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-45—{SSES 33' (10-m) 2001-2006 June JFD - continued}

(Page 2 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 14.31**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	7	15	57	327	111	28	23	14	15	14	3	0	0	1	3	0	0	618
(1)	1.13	2.43	9.22	52.91	17.96	4.53	3.72	2.27	2.43	2.27	.49	.00	.00	.16	.49	.00	.00	100.00
(2)	.16	.35	1.32	7.57	2.57	.65	.53	.32	.35	.32	.07	.00	.00	.02	.07	.00	.00	14.31

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-45—{SSES 33' (10-m) 2001-2006 June JFD - continued}

(Page 1 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 6.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	1	36	101	22	8	7	1	2	0	0	0	0	0	1	0	0	179
(1)	.00	.39	13.90	39.00	8.49	3.09	2.70	.39	.77	.00	.00	.00	.00	.00	.39	.00	.00	69.11
(2)	.00	.02	.83	2.34	.51	.19	.16	.02	.05	.00	.00	.00	.00	.00	.02	.00	.00	4.14
1.1- 1.5	0	0	7	61	2	0	0	2	1	0	0	0	0	0	0	0	0	73
(1)	.00	.00	2.70	23.55	.77	.00	.00	.77	.39	.00	.00	.00	.00	.00	.00	.00	.00	28.19
(2)	.00	.00	.16	1.41	.05	.00	.00	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	1.69
1.6- 2.0	0	0	0	4	0	0	0	0	0	0	2	0	0	0	0	0	0	6
(1)	.00	.00	.00	1.54	.00	.00	.00	.00	.00	.00	.77	.00	.00	.00	.00	.00	.00	2.32
(2)	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.14
2.1- 3.0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.39	.00	.00	.00	.00	.00	.00	.00	.39
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-45—{SSES 33' (10-m) 2001-2006 June JFD - continued}

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SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 6.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	1	43	166	24	8	7	3	3	1	2	0	0	0	1	0	0	259
(1)	.00	.39	16.60	64.09	9.27	3.09	2.70	1.16	1.16	.39	.77	.00	.00	.00	.39	.00	.00	100.00
(2)	.00	.02	1.00	3.84	.56	.19	.16	.07	.07	.02	.05	.00	.00	.00	.02	.00	.00	6.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-45—{SSES 33' (10-m) 2001-2006 June JFD - continued}

(Page 1 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	2	7	3	2	1	0	0	0	0	0	0	0	0	0	15
(1)	.00	.00	.00	.05	.16	.07	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.35
(2)	.00	.00	.00	.05	.16	.07	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.35
.5- 1.0	14	35	158	442	267	133	110	55	61	27	14	2	2	4	4	1	0	1329
(1)	.32	.81	3.66	10.23	6.18	3.08	2.55	1.27	1.41	.63	.32	.05	.05	.09	.09	.02	.00	30.76
(2)	.32	.81	3.66	10.23	6.18	3.08	2.55	1.27	1.41	.63	.32	.05	.05	.09	.09	.02	.00	30.76
1.1- 1.5	34	90	132	258	46	31	55	58	103	122	53	19	7	5	8	5	0	1026
(1)	.79	2.08	3.06	5.97	1.06	.72	1.27	1.34	2.38	2.82	1.23	.44	.16	.12	.19	.12	.00	23.75
(2)	.79	2.08	3.06	5.97	1.06	.72	1.27	1.34	2.38	2.82	1.23	.44	.16	.12	.19	.12	.00	23.75
1.6- 2.0	51	79	50	31	16	20	33	30	38	98	73	21	13	5	4	15	0	577
(1)	1.18	1.83	1.16	.72	.37	.46	.76	.69	.88	2.27	1.69	.49	.30	.12	.09	.35	.00	13.36
(2)	1.18	1.83	1.16	.72	.37	.46	.76	.69	.88	2.27	1.69	.49	.30	.12	.09	.35	.00	13.36
2.1- 3.0	56	76	50	15	9	8	31	30	38	110	201	48	17	18	18	47	0	772
(1)	1.30	1.76	1.16	.35	.21	.19	.72	.69	.88	2.55	4.65	1.11	.39	.42	.42	1.09	.00	17.87
(2)	1.30	1.76	1.16	.35	.21	.19	.72	.69	.88	2.55	4.65	1.11	.39	.42	.42	1.09	.00	17.87
3.1- 4.0	19	17	3	0	0	1	6	1	3	22	189	57	26	8	28	29	0	409
(1)	.44	.39	.07	.00	.00	.02	.14	.02	.07	.51	4.38	1.32	.60	.19	.65	.67	.00	9.47
(2)	.44	.39	.07	.00	.00	.02	.14	.02	.07	.51	4.38	1.32	.60	.19	.65	.67	.00	9.47
4.1- 5.0	4	0	0	0	0	0	0	1	0	0	45	48	13	2	18	21	0	152
(1)	.09	.00	.00	.00	.00	.00	.00	.02	.00	.00	1.04	1.11	.30	.05	.42	.49	.00	3.52
(2)	.09	.00	.00	.00	.00	.00	.00	.02	.00	.00	1.04	1.11	.30	.05	.42	.49	.00	3.52
5.1- 6.0	2	0	0	0	0	0	0	0	0	0	7	15	1	0	6	7	0	38
(1)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16	.35	.02	.00	.14	.16	.00	.88
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16	.35	.02	.00	.14	.16	.00	.88

Table 2.3-45—{SSES 33' (10-m) 2001-2006 June JFD - continued}

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SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	180	297	393	748	345	196	237	176	243	379	582	212	79	42	86	125	0	4320
(1)	4.17	6.88	9.10	17.31	7.99	4.54	5.49	4.07	5.63	8.77	13.47	4.91	1.83	.97	1.99	2.89	.00	100.00
(2)	4.17	6.88	9.10	17.31	7.99	4.54	5.49	4.07	5.63	8.77	13.47	4.91	1.83	.97	1.99	2.89	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-46 {SSES 33' (10-m) 2001-2006 July JFD}

(Page 1 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA | STABILITY CLASS A | CLASS FREQUENCY (PERCENT) = 11.16

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	1	1	4	2	2	1	3	0	0	0	0	0	0	0	0	14
(1)	.00	.00	.20	.20	.80	.40	.40	.20	.60	.00	.00	.00	.00	.00	.00	.00	.00	2.81
(2)	.00	.00	.02	.02	.09	.04	.04	.02	.07	.00	.00	.00	.00	.00	.00	.00	.00	.31
1.1- 1.5	1	1	11	12	11	6	4	4	7	9	7	2	0	0	0	1	0	76
(1)	.20	.20	2.21	2.41	2.21	1.20	.80	.80	1.41	1.81	1.41	.40	.00	.00	.00	.20	.00	15.26
(2)	.02	.02	.25	.27	.25	.13	.09	.09	.16	.20	.16	.04	.00	.00	.00	.02	.00	1.70
1.6- 2.0	2	4	3	6	4	4	1	2	7	11	15	5	0	1	0	1	0	66
(1)	.40	.80	.60	1.20	.80	.80	.20	.40	1.41	2.21	3.01	1.00	.00	.20	.00	.20	.00	13.25
(2)	.04	.09	.07	.13	.09	.09	.02	.04	.16	.25	.34	.11	.00	.02	.00	.02	.00	1.48
2.1- 3.0	4	12	5	4	1	0	13	5	11	33	71	8	1	1	1	5	0	175
(1)	.80	2.41	1.00	.80	.20	.00	2.61	1.00	2.21	6.63	14.26	1.61	.20	.20	.20	1.00	.00	35.14
(2)	.09	.27	.11	.09	.02	.00	.29	.11	.25	.74	1.59	.18	.02	.02	.02	.11	.00	3.92
3.1- 4.0	19	12	1	0	0	0	0	0	2	6	55	18	6	1	1	1	0	122
(1)	3.82	2.41	.20	.00	.00	.00	.00	.00	.40	1.20	11.04	3.61	1.20	.20	.20	.20	.00	24.50
(2)	.43	.27	.02	.00	.00	.00	.00	.00	.04	.13	1.23	.40	.13	.02	.02	.02	.00	2.73
4.1- 5.0	4	1	0	0	0	0	0	0	0	0	14	17	1	0	1	3	0	41
(1)	.80	.20	.00	.00	.00	.00	.00	.00	.00	.00	2.81	3.41	.20	.00	.20	.60	.00	8.23
(2)	.09	.02	.00	.00	.00	.00	.00	.00	.00	.00	.31	.38	.02	.00	.02	.07	.00	.92
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.80	.00	.00	.00	.00	.00	.80
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.09

Table 2.3-46 {SSES 33' (10-m) 2001-2006 July JFD}

(Page 2 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 11.16**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	30	30	21	23	20	12	20	12	30	59	162	54	8	3	3	11	0	498
(1)	6.02	6.02	4.22	4.62	4.02	2.41	4.02	2.41	6.02	11.85	32.53	10.84	1.61	.60	.60	2.21	.00	100.00
(2)	.67	.67	.47	.52	.45	.27	.45	.27	.67	1.32	3.63	1.21	.18	.07	.07	.25	.00	11.16

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-46—{SSES 33' (10-m) 2001-2006 July JFD - continued}

(Page 1 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 4.57**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.49	.49	.00	.98	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.96
(2)	.00	.00	.00	.00	.02	.02	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
1.1- 1.5	2	0	3	2	2	0	2	0	2	1	1	0	0	0	0	0	0	15
(1)	.98	.00	1.47	.98	.98	.00	.98	.00	.98	.49	.49	.00	.00	.00	.00	.00	.00	7.35
(2)	.04	.00	.07	.04	.04	.00	.04	.00	.04	.02	.02	.00	.00	.00	.00	.00	.00	.34
1.6- 2.0	3	7	3	2	1	0	1	2	2	2	4	3	0	0	0	1	0	31
(1)	1.47	3.43	1.47	.98	.49	.00	.49	.98	.98	.98	1.96	1.47	.00	.00	.00	.49	.00	15.20
(2)	.07	.16	.07	.04	.02	.00	.02	.04	.04	.04	.09	.07	.00	.00	.00	.02	.00	.69
2.1- 3.0	1	12	3	1	0	0	3	1	5	12	21	3	2	1	2	1	0	68
(1)	.49	5.88	1.47	.49	.00	.00	1.47	.49	2.45	5.88	10.29	1.47	.98	.49	.98	.49	.00	33.33
(2)	.02	.27	.07	.02	.00	.00	.07	.02	.11	.27	.47	.07	.04	.02	.04	.02	.00	1.52
3.1- 4.0	6	4	1	0	0	0	1	0	0	2	23	9	5	2	1	3	0	57
(1)	2.94	1.96	.49	.00	.00	.00	.49	.00	.00	.98	11.27	4.41	2.45	.98	.49	1.47	.00	27.94
(2)	.13	.09	.02	.00	.00	.00	.02	.00	.00	.04	.52	.20	.11	.04	.02	.07	.00	1.28
4.1- 5.0	5	3	0	0	0	0	0	0	0	0	8	6	3	0	1	2	0	28
(1)	2.45	1.47	.00	.00	.00	.00	.00	.00	.00	.00	3.92	2.94	1.47	.00	.49	.98	.00	13.73
(2)	.11	.07	.00	.00	.00	.00	.00	.00	.00	.00	.18	.13	.07	.00	.02	.04	.00	.63
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.49	.00	.00	.00	.00	.00	.00	.49
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02

Table 2.3-46—{SSES 33' (10-m) 2001-2006 July JFD - continued}
(Page 2 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 4.57**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	17	26	10	5	4	1	7	5	9	17	58	21	10	3	4	7	0	204
(1)	8.33	12.75	4.90	2.45	1.96	.49	3.43	2.45	4.41	8.33	28.43	10.29	4.90	1.47	1.96	3.43	.00	100.00
(2)	.38	.58	.22	.11	.09	.02	.16	.11	.20	.38	1.30	.47	.22	.07	.09	.16	.00	4.57

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-46—{SSES 33' (10-m) 2001-2006 July JFD - continued}

(Page 1 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 6.03**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	1	0	1	4	4	1	1	1	0	0	0	0	0	0	0	0	13
(1)	.00	.37	.00	.37	1.49	1.49	.37	.37	.37	.00	.00	.00	.00	.00	.00	.00	.00	4.83
(2)	.00	.02	.00	.02	.09	.09	.02	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.29
1.1- 1.5	1	5	2	5	4	2	1	1	4	4	3	0	2	0	1	0	0	35
(1)	.37	1.86	.74	1.86	1.49	.74	.37	.37	1.49	1.49	1.12	.00	.74	.00	.37	.00	.00	13.01
(2)	.02	.11	.04	.11	.09	.04	.02	.02	.09	.09	.07	.00	.04	.00	.02	.00	.00	.78
1.6- 2.0	4	1	0	4	1	3	6	2	3	3	6	5	1	1	1	0	0	41
(1)	1.49	.37	.00	1.49	.37	1.12	2.23	.74	1.12	1.12	2.23	1.86	.37	.37	.37	.00	.00	15.24
(2)	.09	.02	.00	.09	.02	.07	.13	.04	.07	.07	.13	.11	.02	.02	.02	.00	.00	.92
2.1- 3.0	11	6	3	0	0	0	1	3	2	18	24	8	2	2	6	2	0	88
(1)	4.09	2.23	1.12	.00	.00	.00	.37	1.12	.74	6.69	8.92	2.97	.74	.74	2.23	.74	.00	32.71
(2)	.25	.13	.07	.00	.00	.00	.02	.07	.04	.40	.54	.18	.04	.04	.13	.04	.00	1.97
3.1- 4.0	11	1	0	0	0	0	0	0	4	1	14	11	4	2	9	6	0	63
(1)	4.09	.37	.00	.00	.00	.00	.00	.00	1.49	.37	5.20	4.09	1.49	.74	3.35	2.23	.00	23.42
(2)	.25	.02	.00	.00	.00	.00	.00	.00	.09	.02	.31	.25	.09	.04	.20	.13	.00	1.41
4.1- 5.0	2	1	0	0	0	0	0	0	0	0	6	14	1	0	0	1	0	25
(1)	.74	.37	.00	.00	.00	.00	.00	.00	.00	.00	2.23	5.20	.37	.00	.00	.37	.00	9.29
(2)	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.13	.31	.02	.00	.00	.02	.00	.56
5.1- 6.0	0	1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	4
(1)	.00	.37	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.12	.00	.00	.00	.00	.00	1.49
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.09

Table 2.3-46—{SSES 33' (10-m) 2001-2006 July JFD - continued}

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SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 6.03**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	29	16	5	10	9	9	9	7	14	26	53	41	10	5	17	9	0	269
(1)	10.78	5.95	1.86	3.72	3.35	3.35	3.35	2.60	5.20	9.67	19.70	15.24	3.72	1.86	6.32	3.35	.00	100.00
(2)	.65	.36	.11	.22	.20	.20	.20	.16	.31	.58	1.19	.92	.22	.11	.38	.20	.00	6.03

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-46—{SSES 33' (10-m) 2001-2006 July JFD - continued}

(Page 1 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 28.88**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	1	10	21	27	26	28	21	15	14	5	6	3	0	0	1	2	0	180
(1)	.08	.78	1.63	2.09	2.02	2.17	1.63	1.16	1.09	.39	.47	.23	.00	.00	.08	.16	.00	13.96
(2)	.02	.22	.47	.60	.58	.63	.47	.34	.31	.11	.13	.07	.00	.00	.02	.04	.00	4.03
1.1- 1.5	6	24	26	29	19	17	19	17	29	36	28	11	3	2	3	2	0	271
(1)	.47	1.86	2.02	2.25	1.47	1.32	1.47	1.32	2.25	2.79	2.17	.85	.23	.16	.23	.16	.00	21.02
(2)	.13	.54	.58	.65	.43	.38	.43	.38	.65	.81	.63	.25	.07	.04	.07	.04	.00	6.07
1.6- 2.0	8	34	11	12	11	10	23	20	25	33	32	6	2	3	4	7	0	241
(1)	.62	2.64	.85	.93	.85	.78	1.78	1.55	1.94	2.56	2.48	.47	.16	.23	.31	.54	.00	18.70
(2)	.18	.76	.25	.27	.25	.22	.52	.45	.56	.74	.72	.13	.04	.07	.09	.16	.00	5.40
2.1- 3.0	33	33	9	6	3	11	21	13	38	56	62	30	8	6	11	23	0	363
(1)	2.56	2.56	.70	.47	.23	.85	1.63	1.01	2.95	4.34	4.81	2.33	.62	.47	.85	1.78	.00	28.16
(2)	.74	.74	.20	.13	.07	.25	.47	.29	.85	1.25	1.39	.67	.18	.13	.25	.52	.00	8.13
3.1- 4.0	16	11	0	0	0	0	4	1	4	6	61	25	6	4	13	18	0	169
(1)	1.24	.85	.00	.00	.00	.00	.31	.08	.31	.47	4.73	1.94	.47	.31	1.01	1.40	.00	13.11
(2)	.36	.25	.00	.00	.00	.00	.09	.02	.09	.13	1.37	.56	.13	.09	.29	.40	.00	3.79
4.1- 5.0	4	0	0	0	0	0	0	0	1	2	22	14	2	1	2	0	0	48
(1)	.31	.00	.00	.00	.00	.00	.00	.00	.08	.16	1.71	1.09	.16	.08	.16	.00	.00	3.72
(2)	.09	.00	.00	.00	.00	.00	.00	.00	.02	.04	.49	.31	.04	.02	.04	.00	.00	1.08
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	6	10	0	0	0	0	0	16
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.47	.78	.00	.00	.00	.00	.00	1.24
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13	.22	.00	.00	.00	.00	.00	.36

Table 2.3-46—{SSES 33' (10-m) 2001-2006 July JFD - continued}

(Page 2 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 28.88**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.08
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	68	112	67	74	59	66	88	66	111	138	217	100	21	16	34	52	0	1289
(1)	5.28	8.69	5.20	5.74	4.58	5.12	6.83	5.12	8.61	10.71	16.83	7.76	1.63	1.24	2.64	4.03	.00	100.00
(2)	1.52	2.51	1.50	1.66	1.32	1.48	1.97	1.48	2.49	3.09	4.86	2.24	.47	.36	.76	1.16	.00	28.88

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-46—{SSES 33' (10-m) 2001-2006 July JFD - continued}

(Page 1 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 29.79**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	2	5	0	0	1	0	0	0	0	0	0	0	0	0	9
(1)	.00	.00	.08	.15	.38	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.68
(2)	.00	.00	.02	.04	.11	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20
.5- 1.0	5	19	86	162	135	75	71	37	33	10	4	0	1	2	0	0	0	640
(1)	.38	1.43	6.47	12.18	10.15	5.64	5.34	2.78	2.48	.75	.30	.00	.08	.15	.00	.00	.00	48.12
(2)	.11	.43	1.93	3.63	3.02	1.68	1.59	.83	.74	.22	.09	.00	.02	.04	.00	.00	.00	14.34
1.1- 1.5	10	50	81	57	10	14	19	19	45	53	11	5	0	0	4	0	0	378
(1)	.75	3.76	6.09	4.29	.75	1.05	1.43	1.43	3.38	3.98	.83	.38	.00	.00	.30	.00	.00	28.42
(2)	.22	1.12	1.81	1.28	.22	.31	.43	.43	1.01	1.19	.25	.11	.00	.00	.09	.00	.00	8.47
1.6- 2.0	14	33	8	5	4	9	8	3	21	37	19	5	1	0	1	3	0	171
(1)	1.05	2.48	.60	.38	.30	.68	.60	.23	1.58	2.78	1.43	.38	.08	.00	.08	.23	.00	12.86
(2)	.31	.74	.18	.11	.09	.20	.18	.07	.47	.83	.43	.11	.02	.00	.02	.07	.00	3.83
2.1- 3.0	9	7	3	2	1	3	3	1	7	17	28	5	2	0	10	13	0	111
(1)	.68	.53	.23	.15	.08	.23	.23	.08	.53	1.28	2.11	.38	.15	.00	.75	.98	.00	8.35
(2)	.20	.16	.07	.04	.02	.07	.07	.02	.16	.38	.63	.11	.04	.00	.22	.29	.00	2.49
3.1- 4.0	2	0	0	0	0	0	1	0	0	0	3	2	3	2	2	3	0	18
(1)	.15	.00	.00	.00	.00	.00	.08	.00	.00	.00	.23	.15	.23	.15	.15	.23	.00	1.35
(2)	.04	.00	.00	.00	.00	.00	.02	.00	.00	.00	.07	.04	.07	.04	.04	.07	.00	.40
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.08	.00	.15
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02	.00	.04
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00	.08
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02

Table 2.3-46—{SSES 33' (10-m) 2001-2006 July JFD - continued}
(Page 2 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 29.79**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	40	109	179	228	155	101	102	61	106	117	67	17	7	4	17	20	0	1330
(1)	3.01	8.20	13.46	17.14	11.65	7.59	7.67	4.59	7.97	8.80	5.04	1.28	.53	.30	1.28	1.50	.00	100.00
(2)	.90	2.44	4.01	5.11	3.47	2.26	2.28	1.37	2.37	2.62	1.50	.38	.16	.09	.38	.45	.00	29.79

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-46—{SSES 33' (10-m) 2001-2006 July JFD - continued}

(Page 1 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 15.59**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.29	.29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.57
(2)	.00	.00	.00	.00	.04	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
.5- 1.0	0	8	31	206	123	50	18	12	6	2	2	0	0	0	1	1	0	460
(1)	.00	1.15	4.45	29.60	17.67	7.18	2.59	1.72	.86	.29	.29	.00	.00	.00	.14	.14	.00	66.09
(2)	.00	.18	.69	4.61	2.76	1.12	.40	.27	.13	.04	.04	.00	.00	.00	.02	.02	.00	10.30
1.1- 1.5	0	9	31	136	11	2	3	2	8	9	1	0	0	0	0	1	0	213
(1)	.00	1.29	4.45	19.54	1.58	.29	.43	.29	1.15	1.29	.14	.00	.00	.00	.00	.14	.00	30.60
(2)	.00	.20	.69	3.05	.25	.04	.07	.04	.18	.20	.02	.00	.00	.00	.00	.02	.00	4.77
1.6- 2.0	0	3	2	9	1	0	0	0	0	2	0	0	0	0	0	1	0	18
(1)	.00	.43	.29	1.29	.14	.00	.00	.00	.00	.29	.00	.00	.00	.00	.00	.14	.00	2.59
(2)	.00	.07	.04	.20	.02	.00	.00	.00	.00	.04	.00	.00	.00	.00	.00	.02	.00	.40
2.1- 3.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-46—{SSES 33' (10-m) 2001-2006 July JFD - continued}

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SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA | **STABILITY CLASS F** | **CLASS FREQUENCY (PERCENT) = 15.59**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	21	64	351	137	54	21	14	14	13	3	0	0	0	1	3	0	696
(1)	.00	3.02	9.20	50.43	19.68	7.76	3.02	2.01	2.01	1.87	.43	.00	.00	.00	.14	.43	.00	100.00
(2)	.00	.47	1.43	7.86	3.07	1.21	.47	.31	.31	.29	.07	.00	.00	.00	.02	.07	.00	15.59

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-46—{SSES 33' (10-m) 2001-2006 July JFD - continued}

(Page 1 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 3.99**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	11	68	25	9	0	2	0	0	0	0	0	0	0	0	0	115
(1)	.00	.00	6.18	38.20	14.04	5.06	.00	1.12	.00	.00	.00	.00	.00	.00	.00	.00	.00	64.61
(2)	.00	.00	.25	1.52	.56	.20	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.58
1.1- 1.5	0	1	8	46	2	0	0	0	0	0	0	0	0	0	0	1	0	58
(1)	.00	.56	4.49	25.84	1.12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.56	.00	32.58
(2)	.00	.02	.18	1.03	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	1.30
1.6- 2.0	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	5
(1)	.56	.00	.00	2.25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.81
(2)	.02	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11
2.1- 3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-46—{SSES 33' (10-m) 2001-2006 July JFD - continued}

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SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 3.99**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	1	1	19	118	27	9	0	2	0	0	0	0	0	0	0	1	0	178
(1)	.56	.56	10.67	66.29	15.17	5.06	.00	1.12	.00	.00	.00	.00	.00	.00	.00	.56	.00	100.00
(2)	.02	.02	.43	2.64	.60	.20	.00	.04	.00	.00	.00	.00	.00	.00	.00	.02	.00	3.99

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-46—{SSES 33' (10-m) 2001-2006 July JFD - continued}

(Page 1 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA   STABILITY CLASS ALL   CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	2	7	2	0	1	0	0	0	0	0	0	0	0	0	13
(1)	.00	.00	.02	.04	.16	.04	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.29
(2)	.00	.00	.02	.04	.16	.04	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.29
.5- 1.0	6	38	150	465	318	169	113	70	57	17	12	3	1	2	2	3	0	1426
(1)	.13	.85	3.36	10.42	7.12	3.79	2.53	1.57	1.28	.38	.27	.07	.02	.04	.04	.07	.00	31.94
(2)	.13	.85	3.36	10.42	7.12	3.79	2.53	1.57	1.28	.38	.27	.07	.02	.04	.04	.07	.00	31.94
1.1- 1.5	20	90	162	287	59	41	48	43	95	112	51	18	5	2	8	5	0	1046
(1)	.45	2.02	3.63	6.43	1.32	.92	1.08	.96	2.13	2.51	1.14	.40	.11	.04	.18	.11	.00	23.43
(2)	.45	2.02	3.63	6.43	1.32	.92	1.08	.96	2.13	2.51	1.14	.40	.11	.04	.18	.11	.00	23.43
1.6- 2.0	32	82	27	42	22	26	39	29	58	88	76	24	4	5	6	13	0	573
(1)	.72	1.84	.60	.94	.49	.58	.87	.65	1.30	1.97	1.70	.54	.09	.11	.13	.29	.00	12.84
(2)	.72	1.84	.60	.94	.49	.58	.87	.65	1.30	1.97	1.70	.54	.09	.11	.13	.29	.00	12.84
2.1- 3.0	58	71	23	13	5	14	41	23	63	136	206	54	15	10	30	44	0	806
(1)	1.30	1.59	.52	.29	.11	.31	.92	.52	1.41	3.05	4.61	1.21	.34	.22	.67	.99	.00	18.06
(2)	1.30	1.59	.52	.29	.11	.31	.92	.52	1.41	3.05	4.61	1.21	.34	.22	.67	.99	.00	18.06
3.1- 4.0	54	28	2	0	0	0	6	1	10	15	156	65	24	11	26	31	0	429
(1)	1.21	.63	.04	.00	.00	.00	.13	.02	.22	.34	3.49	1.46	.54	.25	.58	.69	.00	9.61
(2)	1.21	.63	.04	.00	.00	.00	.13	.02	.22	.34	3.49	1.46	.54	.25	.58	.69	.00	9.61
4.1- 5.0	15	5	0	0	0	0	0	0	1	2	51	51	7	1	4	7	0	144
(1)	.34	.11	.00	.00	.00	.00	.00	.00	.02	.04	1.14	1.14	.16	.02	.09	.16	.00	3.23
(2)	.34	.11	.00	.00	.00	.00	.00	.00	.02	.04	1.14	1.14	.16	.02	.09	.16	.00	3.23
5.1- 6.0	0	1	0	0	0	0	0	0	0	0	8	17	0	0	0	0	0	26
(1)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.18	.38	.00	.00	.00	.00	.00	.58
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.18	.38	.00	.00	.00	.00	.00	.58

Table 2.3-46—{SSES 33' (10-m) 2001-2006 July JFD - continued}

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SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

	WIND DIRECTION FROM																	
SPEED m/s	**N**	**NNE**	**NE**	**ENE**	**E**	**ESE**	**SE**	**SSE**	**S**	**SSW**	**SW**	**WSW**	**W**	**WNW**	**NW**	**NNW**	**VRBL**	**TOTAL**
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	185	315	365	809	411	252	247	167	284	370	560	233	56	31	76	103	0	4464
(1)	4.14	7.06	8.18	18.12	9.21	5.65	5.53	3.74	6.36	8.29	12.54	5.22	1.25	.69	1.70	2.31	.00	100.00
(2)	4.14	7.06	8.18	18.12	9.21	5.65	5.53	3.74	6.36	8.29	12.54	5.22	1.25	.69	1.70	2.31	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-47 {SSES 33' (10-m) 2001-2006 August JFD}

(Page 1 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS A — CLASS FREQUENCY (PERCENT) = 11.16

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	2	3	4	3	1	0	0	0	0	0	0	0	0	13
(1)	.00	.00	.00	.00	.40	.60	.80	.60	.20	.00	.00	.00	.00	.00	.00	.00	.00	2.61
(2)	.00	.00	.00	.00	.04	.07	.09	.07	.02	.00	.00	.00	.00	.00	.00	.00	.00	.29
1.1- 1.5	0	2	9	13	7	6	4	4	9	4	5	2	1	1	0	0	0	67
(1)	.00	.40	1.81	2.61	1.41	1.20	.80	.80	1.81	.80	1.00	.40	.20	.20	.00	.00	.00	13.45
(2)	.00	.04	.20	.29	.16	.13	.09	.09	.20	.09	.11	.04	.02	.02	.00	.00	.00	1.50
1.6- 2.0	0	5	5	6	4	3	7	6	6	15	9	2	0	0	1	0	0	69
(1)	.00	1.00	1.00	1.20	.80	.60	1.41	1.20	1.20	3.01	1.81	.40	.00	.00	.20	.00	.00	13.86
(2)	.00	.11	.11	.13	.09	.07	.16	.13	.13	.34	.20	.04	.00	.00	.02	.00	.00	1.55
2.1- 3.0	9	11	17	1	0	1	2	5	15	24	48	7	0	4	1	4	0	149
(1)	1.81	2.21	3.41	.20	.00	.20	.40	1.00	3.01	4.82	9.64	1.41	.00	.80	.20	.80	.00	29.92
(2)	.20	.25	.38	.02	.00	.02	.04	.11	.34	.54	1.08	.16	.00	.09	.02	.09	.00	3.34
3.1- 4.0	13	14	0	0	0	1	0	1	3	20	60	16	7	6	3	6	0	150
(1)	2.61	2.81	.00	.00	.00	.20	.00	.20	.60	4.02	12.05	3.21	1.41	1.20	.60	1.20	.00	30.12
(2)	.29	.31	.00	.00	.00	.02	.00	.02	.07	.45	1.34	.36	.16	.13	.07	.13	.00	3.36
4.1- 5.0	0	3	0	0	0	1	1	0	0	0	13	23	3	0	0	0	0	44
(1)	.00	.60	.00	.00	.00	.20	.20	.00	.00	.00	2.61	4.62	.60	.00	.00	.00	.00	8.84
(2)	.00	.07	.00	.00	.00	.02	.02	.00	.00	.00	.29	.52	.07	.00	.00	.00	.00	.99
5.1- 6.0	2	1	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	6
(1)	.40	.20	.00	.00	.00	.00	.00	.00	.00	.00	.40	.20	.00	.00	.00	.00	.00	1.20
(2)	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.04	.02	.00	.00	.00	.00	.00	.13

Table 2.3-47 {SSES 33' (10-m) 2001-2006 August JFD}

(Page 2 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS A — CLASS FREQUENCY (PERCENT) = 11.16

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	24	36	31	20	13	15	18	19	34	63	137	51	11	11	5	10	0	498
(1)	4.82	7.23	6.22	4.02	2.61	3.01	3.61	3.82	6.83	12.65	27.51	10.24	2.21	2.21	1.00	2.01	.00	100.00
(2)	.54	.81	.69	.45	.29	.34	.40	.43	.76	1.41	3.07	1.14	.25	.25	.11	.22	.00	11.16

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-47—{SSES 33' (10-m) 2001-2006 August JFD - continued}

(Page 1 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.85**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	1	3	4	0	0	0	0	0	0	0	0	0	0	0	8
(1)	.00	.00	.00	.58	1.74	2.33	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.65
(2)	.00	.00	.00	.02	.07	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18
1.1- 1.5	1	0	4	7	3	2	2	1	1	1	1	0	0	0	0	0	0	23
(1)	.58	.00	2.33	4.07	1.74	1.16	1.16	.58	.58	.58	.58	.00	.00	.00	.00	.00	.00	13.37
(2)	.02	.00	.09	.16	.07	.04	.04	.02	.02	.02	.02	.00	.00	.00	.00	.00	.00	.52
1.6- 2.0	0	2	2	4	2	2	1	1	1	6	2	0	0	0	0	2	0	25
(1)	.00	1.16	1.16	2.33	1.16	1.16	.58	.58	.58	3.49	1.16	.00	.00	.00	.00	1.16	.00	14.53
(2)	.00	.04	.04	.09	.04	.04	.02	.02	.02	.13	.04	.00	.00	.00	.00	.04	.00	.56
2.1- 3.0	3	11	5	1	1	0	1	1	1	4	16	1	0	0	2	1	0	48
(1)	1.74	6.40	2.91	.58	.58	.00	.58	.58	.58	2.33	9.30	.58	.00	.00	1.16	.58	.00	27.91
(2)	.07	.25	.11	.02	.02	.00	.02	.02	.02	.09	.36	.02	.00	.00	.04	.02	.00	1.08
3.1- 4.0	7	2	1	0	0	1	0	0	0	8	19	6	3	3	1	3	0	54
(1)	4.07	1.16	.58	.00	.00	.58	.00	.00	.00	4.65	11.05	3.49	1.74	1.74	.58	1.74	.00	31.40
(2)	.16	.04	.02	.00	.00	.02	.00	.00	.00	.18	.43	.13	.07	.07	.02	.07	.00	1.21
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	3	2	1	0	1	1	0	8
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.74	1.16	.58	.00	.58	.58	.00	4.65
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.04	.02	.00	.02	.02	.00	.18
5.1- 6.0	3	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	5
(1)	1.74	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.16	.00	.00	.00	.00	.00	2.91
(2)	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00	.00	.11

Table 2.3-47—{SSES 33' (10-m) 2001-2006 August JFD - continued}

(Page 2 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.85**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.58	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.58
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	15	15	12	13	9	9	4	3	3	19	41	11	4	3	4	7	0	172
(1)	8.72	8.72	6.98	7.56	5.23	5.23	2.33	1.74	1.74	11.05	23.84	6.40	2.33	1.74	2.33	4.07	.00	100.00
(2)	.34	.34	.27	.29	.20	.20	.09	.07	.07	.43	.92	.25	.09	.07	.09	.16	.00	3.85

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-47—{SSES 33' (10-m) 2001-2006 August JFD - continued}

(Page 1 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 4.89**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	2	0	2	1	6	1	4	2	0	0	0	0	0	0	0	18
(1)	.00	.00	.92	.00	.92	.46	2.75	.46	1.83	.92	.00	.00	.00	.00	.00	.00	.00	8.26
(2)	.00	.00	.04	.00	.04	.02	.13	.02	.09	.04	.00	.00	.00	.00	.00	.00	.00	.40
1.1- 1.5	3	1	4	6	6	1	1	2	3	3	2	0	1	0	0	0	0	33
(1)	1.38	.46	1.83	2.75	2.75	.46	.46	.92	1.38	1.38	.92	.00	.46	.00	.00	.00	.00	15.14
(2)	.07	.02	.09	.13	.13	.02	.02	.04	.07	.07	.04	.00	.02	.00	.00	.00	.00	.74
1.6- 2.0	2	5	2	2	1	1	1	2	3	2	5	0	1	0	2	0	0	29
(1)	.92	2.29	.92	.92	.46	.46	.46	.92	1.38	.92	2.29	.00	.46	.00	.92	.00	.00	13.30
(2)	.04	.11	.04	.04	.02	.02	.02	.04	.07	.04	.11	.00	.02	.00	.04	.00	.00	.65
2.1- 3.0	7	14	7	0	1	0	1	0	4	11	17	3	0	1	1	2	0	69
(1)	3.21	6.42	3.21	.00	.46	.00	.46	.00	1.83	5.05	7.80	1.38	.00	.46	.46	.92	.00	31.65
(2)	.16	.31	.16	.00	.02	.00	.02	.00	.09	.25	.38	.07	.00	.02	.02	.04	.00	1.55
3.1- 4.0	6	3	0	0	0	0	2	0	0	5	16	9	3	0	3	3	0	50
(1)	2.75	1.38	.00	.00	.00	.00	.92	.00	.00	2.29	7.34	4.13	1.38	.00	1.38	1.38	.00	22.94
(2)	.13	.07	.00	.00	.00	.00	.04	.00	.00	.11	.36	.20	.07	.00	.07	.07	.00	1.12
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	7	1	0	2	1	0	0	11
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.21	.46	.00	.92	.46	.00	.00	5.05
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16	.02	.00	.04	.02	.00	.00	.25
5.1- 6.0	2	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	5
(1)	.92	.00	.00	.00	.00	.00	.00	.00	.00	.00	.92	.46	.00	.00	.00	.00	.00	2.29
(2)	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.02	.00	.00	.00	.00	.00	.11

Table 2.3-47—{SSES 33' (10-m) 2001-2006 August JFD - continued}

(Page 2 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 4.89**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.38	.00	.00	.00	.00	.00	1.38
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.07
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	20	23	15	8	10	3	11	5	14	23	49	17	5	3	7	5	0	218
(1)	9.17	10.55	6.88	3.67	4.59	1.38	5.05	2.29	6.42	10.55	22.48	7.80	2.29	1.38	3.21	2.29	.00	100.00
(2)	.45	.52	.34	.18	.22	.07	.25	.11	.31	.52	1.10	.38	.11	.07	.16	.11	.00	4.89

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-47—{SSES 33' (10-m) 2001-2006 August JFD - continued}

(Page 1 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 27.25**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	0	1	0	0	2	0	0	0	0	0	0	0	0	0	4
(1)	.00	.00	.08	.00	.08	.00	.00	.16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.33
(2)	.00	.00	.02	.00	.02	.00	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
.5- 1.0	3	23	30	29	39	29	27	18	21	9	8	2	3	0	0	0	0	241
(1)	.25	1.89	2.47	2.38	3.21	2.38	2.22	1.48	1.73	.74	.66	.16	.25	.00	.00	.00	.00	19.82
(2)	.07	.52	.67	.65	.87	.65	.61	.40	.47	.20	.18	.04	.07	.00	.00	.00	.00	5.40
1.1- 1.5	16	27	35	19	10	12	20	13	28	28	21	10	2	2	2	4	0	249
(1)	1.32	2.22	2.88	1.56	.82	.99	1.64	1.07	2.30	2.30	1.73	.82	.16	.16	.16	.33	.00	20.48
(2)	.36	.61	.78	.43	.22	.27	.45	.29	.63	.63	.47	.22	.04	.04	.04	.09	.00	5.58
1.6- 2.0	13	33	23	9	10	8	12	12	19	28	23	14	3	6	3	3	0	219
(1)	1.07	2.71	1.89	.74	.82	.66	.99	.99	1.56	2.30	1.89	1.15	.25	.49	.25	.25	.00	18.01
(2)	.29	.74	.52	.20	.22	.18	.27	.27	.43	.63	.52	.31	.07	.13	.07	.07	.00	4.91
2.1- 3.0	39	41	19	1	5	18	8	17	22	40	82	14	6	7	10	15	0	344
(1)	3.21	3.37	1.56	.08	.41	1.48	.66	1.40	1.81	3.29	6.74	1.15	.49	.58	.82	1.23	.00	28.29
(2)	.87	.92	.43	.02	.11	.40	.18	.38	.49	.90	1.84	.31	.13	.16	.22	.34	.00	7.71
3.1- 4.0	29	11	0	0	1	3	1	0	7	5	40	7	3	4	8	16	0	135
(1)	2.38	.90	.00	.00	.08	.25	.08	.00	.58	.41	3.29	.58	.25	.33	.66	1.32	.00	11.10
(2)	.65	.25	.00	.00	.02	.07	.02	.00	.16	.11	.90	.16	.07	.09	.18	.36	.00	3.03
4.1- 5.0	4	0	0	0	0	0	0	0	0	0	4	3	3	1	2	7	0	24
(1)	.33	.00	.00	.00	.00	.00	.00	.00	.00	.00	.33	.25	.25	.08	.16	.58	.00	1.97
(2)	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.07	.07	.02	.04	.16	.00	.54
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-47—{SSES 33' (10-m) 2001-2006 August JFD - continued}

(Page 2 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 27.25**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	104	135	108	58	66	70	68	62	97	110	178	50	20	20	25	45	0	1216
(1)	8.55	11.10	8.88	4.77	5.43	5.76	5.59	5.10	7.98	9.05	14.64	4.11	1.64	1.64	2.06	3.70	.00	100.00
(2)	2.33	3.03	2.42	1.30	1.48	1.57	1.52	1.39	2.17	2.47	3.99	1.12	.45	.45	.56	1.01	.00	27.25

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-47—{SSES 33' (10-m) 2001-2006 August JFD - continued}

(Page 1 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 32.12**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	1	3	1	3	2	1	0	0	0	0	0	0	0	0	11
(1)	.00	.00	.00	.07	.21	.07	.21	.14	.07	.00	.00	.00	.00	.00	.00	.00	.00	.77
(2)	.00	.00	.00	.02	.07	.02	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.25
.5- 1.0	9	22	79	178	147	74	64	47	42	17	2	0	2	0	2	2	0	687
(1)	.63	1.54	5.51	12.42	10.26	5.16	4.47	3.28	2.93	1.19	.14	.00	.14	.00	.14	.14	.00	47.94
(2)	.20	.49	1.77	3.99	3.29	1.66	1.43	1.05	.94	.38	.04	.00	.04	.00	.04	.04	.00	15.40
1.1- 1.5	16	48	101	80	17	10	12	27	58	39	12	3	5	3	0	3	0	434
(1)	1.12	3.35	7.05	5.58	1.19	.70	.84	1.88	4.05	2.72	.84	.21	.35	.21	.00	.21	.00	30.29
(2)	.36	1.08	2.26	1.79	.38	.22	.27	.61	1.30	.87	.27	.07	.11	.07	.00	.07	.00	9.73
1.6- 2.0	22	35	21	7	2	3	6	7	17	36	20	5	0	5	1	2	0	189
(1)	1.54	2.44	1.47	.49	.14	.21	.42	.49	1.19	2.51	1.40	.35	.00	.35	.07	.14	.00	13.19
(2)	.49	.78	.47	.16	.04	.07	.13	.16	.38	.81	.45	.11	.00	.11	.02	.04	.00	4.24
2.1- 3.0	12	14	3	0	1	0	0	3	4	17	20	2	0	1	0	7	0	84
(1)	.84	.98	.21	.00	.07	.00	.00	.21	.28	1.19	1.40	.14	.00	.07	.00	.49	.00	5.86
(2)	.27	.31	.07	.00	.02	.00	.00	.07	.09	.38	.45	.04	.00	.02	.00	.16	.00	1.88
3.1- 4.0	3	4	0	0	0	0	4	2	4	3	3	0	0	0	1	2	0	26
(1)	.21	.28	.00	.00	.00	.00	.28	.14	.28	.21	.21	.00	.00	.00	.07	.14	.00	1.81
(2)	.07	.09	.00	.00	.00	.00	.09	.04	.09	.07	.07	.00	.00	.00	.02	.04	.00	.58
4.1- 5.0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.07	.07	.00	.00	.00	.00	.00	.00	.00	.00	.14
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.04
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-47—{SSES 33' (10-m) 2001-2006 August JFD - continued}

(Page 2 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 32.12**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	62	123	204	266	170	88	89	89	127	112	57	10	7	9	4	16	0	1433
(1)	4.33	8.58	14.24	18.56	11.86	6.14	6.21	6.21	8.86	7.82	3.98	.70	.49	.63	.28	1.12	.00	100.00
(2)	1.39	2.76	4.57	5.96	3.81	1.97	1.99	1.99	2.85	2.51	1.28	.22	.16	.20	.09	.36	.00	32.12

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-47—{SSES 33' (10-m) 2001-2006 August JFD - continued}

(Page 1 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 15.37**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	4
(1)	.00	.00	.15	.00	.29	.15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.58
(2)	.00	.00	.02	.00	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
.5- 1.0	0	5	43	204	108	28	25	6	12	1	2	1	0	0	0	0	0	435
(1)	.00	.73	6.27	29.74	15.74	4.08	3.64	.87	1.75	.15	.29	.15	.00	.00	.00	.00	.00	63.41
(2)	.00	.11	.96	4.57	2.42	.63	.56	.13	.27	.02	.04	.02	.00	.00	.00	.00	.00	9.75
1.1- 1.5	3	9	41	141	3	2	3	4	8	6	3	0	0	0	0	1	0	224
(1)	.44	1.31	5.98	20.55	.44	.29	.44	.58	1.17	.87	.44	.00	.00	.00	.00	.15	.00	32.65
(2)	.07	.20	.92	3.16	.07	.04	.07	.09	.18	.13	.07	.00	.00	.00	.00	.02	.00	5.02
1.6- 2.0	0	8	5	7	0	0	0	0	0	1	2	0	0	0	0	0	0	23
(1)	.00	1.17	.73	1.02	.00	.00	.00	.00	.00	.15	.29	.00	.00	.00	.00	.00	.00	3.35
(2)	.00	.18	.11	.16	.00	.00	.00	.00	.00	.02	.04	.00	.00	.00	.00	.00	.00	.52
2.1- 3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-47—{SSES 33' (10-m) 2001-2006 August JFD - continued}

(Page 2 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 15.37**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	3	22	90	352	113	31	28	10	20	8	7	1	0	0	0	1	0	686
(1)	.44	3.21	13.12	51.31	16.47	4.52	4.08	1.46	2.92	1.17	1.02	.15	.00	.00	.00	.15	.00	100.00
(2)	.07	.49	2.02	7.89	2.53	.69	.63	.22	.45	.18	.16	.02	.00	.00	.00	.02	.00	15.37

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-47—{SSES 33' (10-m) 2001-2006 August JFD - continued}

(Page 1 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 5.36**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.42	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.42
(2)	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	0	1	14	84	23	7	1	0	1	0	0	0	0	0	0	0	0	131
(1)	.00	.42	5.86	35.15	9.62	2.93	.42	.00	.42	.00	.00	.00	.00	.00	.00	.00	.00	54.81
(2)	.00	.02	.31	1.88	.52	.16	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	2.94
1.1- 1.5	0	2	11	87	3	0	0	0	1	1	0	0	0	0	0	0	0	105
(1)	.00	.84	4.60	36.40	1.26	.00	.00	.00	.42	.42	.00	.00	.00	.00	.00	.00	.00	43.93
(2)	.00	.04	.25	1.95	.07	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	2.35
1.6- 2.0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.84	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.84
(2)	.00	.00	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
2.1- 3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-47—{SSES 33' (10-m) 2001-2006 August JFD - continued}

(Page 2 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 5.36**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	3	25	174	26	7	1	0	2	1	0	0	0	0	0	0	0	239
(1)	.00	1.26	10.46	72.80	10.88	2.93	.42	.00	.84	.42	.00	.00	.00	.00	.00	.00	.00	100.00
(2)	.00	.07	.56	3.90	.58	.16	.02	.00	.04	.02	.00	.00	.00	.00	.00	.00	.00	5.36

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-47—{SSES 33' (10-m) 2001-2006 August JFD - continued}

(Page 1 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	2	2	6	2	3	4	1	0	0	0	0	0	0	0	0	20
(1)	.00	.00	.04	.04	.13	.04	.07	.09	.02	.00	.00	.00	.00	.00	.00	.00	.00	.45
(2)	.00	.00	.04	.04	.13	.04	.07	.09	.02	.00	.00	.00	.00	.00	.00	.00	.00	.45
.5- 1.0	12	51	168	496	324	146	127	75	81	29	12	3	5	0	2	2	0	1533
(1)	.27	1.14	3.77	11.12	7.26	3.27	2.85	1.68	1.82	.65	.27	.07	.11	.00	.04	.04	.00	34.36
(2)	.27	1.14	3.77	11.12	7.26	3.27	2.85	1.68	1.82	.65	.27	.07	.11	.00	.04	.04	.00	34.36
1.1- 1.5	39	89	205	353	49	33	42	51	108	82	44	15	9	6	2	8	0	1135
(1)	.87	1.99	4.59	7.91	1.10	.74	.94	1.14	2.42	1.84	.99	.34	.20	.13	.04	.18	.00	25.44
(2)	.87	1.99	4.59	7.91	1.10	.74	.94	1.14	2.42	1.84	.99	.34	.20	.13	.04	.18	.00	25.44
1.6- 2.0	37	88	58	37	19	17	27	28	46	88	61	21	4	11	7	7	0	556
(1)	.83	1.97	1.30	.83	.43	.38	.61	.63	1.03	1.97	1.37	.47	.09	.25	.16	.16	.00	12.46
(2)	.83	1.97	1.30	.83	.43	.38	.61	.63	1.03	1.97	1.37	.47	.09	.25	.16	.16	.00	12.46
2.1- 3.0	70	91	51	3	8	19	12	26	46	96	183	27	6	13	14	29	0	694
(1)	1.57	2.04	1.14	.07	.18	.43	.27	.58	1.03	2.15	4.10	.61	.13	.29	.31	.65	.00	15.55
(2)	1.57	2.04	1.14	.07	.18	.43	.27	.58	1.03	2.15	4.10	.61	.13	.29	.31	.65	.00	15.55
3.1- 4.0	58	34	1	0	1	5	7	3	14	41	138	38	16	13	16	30	0	415
(1)	1.30	.76	.02	.00	.02	.11	.16	.07	.31	.92	3.09	.85	.36	.29	.36	.67	.00	9.30
(2)	1.30	.76	.02	.00	.02	.11	.16	.07	.31	.92	3.09	.85	.36	.29	.36	.67	.00	9.30
4.1- 5.0	4	3	0	0	0	1	1	1	1	0	27	29	7	3	4	8	0	89
(1)	.09	.07	.00	.00	.00	.02	.02	.02	.02	.00	.61	.65	.16	.07	.09	.18	.00	1.99
(2)	.09	.07	.00	.00	.00	.02	.02	.02	.02	.00	.61	.65	.16	.07	.09	.18	.00	1.99
5.1- 6.0	7	1	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	16
(1)	.16	.02	.00	.00	.00	.00	.00	.00	.00	.00	.09	.09	.00	.00	.00	.00	.00	.36
(2)	.16	.02	.00	.00	.00	.00	.00	.00	.00	.00	.09	.09	.00	.00	.00	.00	.00	.36

Table 2.3-47—{SSES 33' (10-m) 2001-2006 August JFD - continued}

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SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	4
(1)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.09
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.09
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	228	357	485	891	407	223	219	188	297	336	469	140	47	46	45	84	0	4462
(1)	5.11	8.00	10.87	19.97	9.12	5.00	4.91	4.21	6.66	7.53	10.51	3.14	1.05	1.03	1.01	1.88	.00	100.00
(2)	5.11	8.00	10.87	19.97	9.12	5.00	4.91	4.21	6.66	7.53	10.51	3.14	1.05	1.03	1.01	1.88	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-48 {SSES 33' (10-m) 2001-2006 September JFD}

(Page 1 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 7.01**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	1	3	5	1	1	0	1	1	0	0	0	0	0	0	13
(1)	.00	.00	.00	.33	.99	1.65	.33	.33	.00	.33	.33	.00	.00	.00	.00	.00	.00	4.29
(2)	.00	.00	.00	.02	.07	.12	.02	.02	.00	.02	.02	.00	.00	.00	.00	.00	.00	.30
1.1- 1.5	0	4	4	4	7	9	5	4	3	4	5	3	1	0	0	1	0	54
(1)	.00	1.32	1.32	1.32	2.31	2.97	1.65	1.32	.99	1.32	1.65	.99	.33	.00	.00	.33	.00	17.82
(2)	.00	.09	.09	.09	.16	.21	.12	.09	.07	.09	.12	.07	.02	.00	.00	.02	.00	1.25
1.6- 2.0	2	3	7	3	4	2	2	4	6	4	7	2	0	0	0	0	0	46
(1)	.66	.99	2.31	.99	1.32	.66	.66	1.32	1.98	1.32	2.31	.66	.00	.00	.00	.00	.00	15.18
(2)	.05	.07	.16	.07	.09	.05	.05	.09	.14	.09	.16	.05	.00	.00	.00	.00	.00	1.06
2.1- 3.0	2	9	5	1	1	0	8	8	8	20	24	6	1	0	5	2	0	100
(1)	.66	2.97	1.65	.33	.33	.00	2.64	2.64	2.64	6.60	7.92	1.98	.33	.00	1.65	.66	.00	33.00
(2)	.05	.21	.12	.02	.02	.00	.19	.19	.19	.46	.56	.14	.02	.00	.12	.05	.00	2.31
3.1- 4.0	9	2	5	0	0	0	1	12	5	11	16	6	2	2	0	2	0	73
(1)	2.97	.66	1.65	.00	.00	.00	.33	3.96	1.65	3.63	5.28	1.98	.66	.66	.00	.66	.00	24.09
(2)	.21	.05	.12	.00	.00	.00	.02	.28	.12	.25	.37	.14	.05	.05	.00	.05	.00	1.69
4.1- 5.0	2	0	0	0	0	0	0	0	2	2	7	4	0	0	0	0	0	17
(1)	.66	.00	.00	.00	.00	.00	.00	.00	.66	.66	2.31	1.32	.00	.00	.00	.00	.00	5.61
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.05	.05	.16	.09	.00	.00	.00	.00	.00	.39
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-48 {SSES 33' (10-m) 2001-2006 September JFD}

(Page 2 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 7.01**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	15	18	21	9	15	16	17	29	24	42	60	21	4	2	5	5	0	303
(1)	4.95	5.94	6.93	2.97	4.95	5.28	5.61	9.57	7.92	13.86	19.80	6.93	1.32	.66	1.65	1.65	.00	100.00
(2)	.35	.42	.49	.21	.35	.37	.39	.67	.56	.97	1.39	.49	.09	.05	.12	.12	.00	7.01

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-48—{SSES 33' (10-m) 2001-2006 September JFD - continued}
(Page 1 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS B — CLASS FREQUENCY (PERCENT) = 3.73

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	2	1	1	0	1	1	0	0	0	0	0	0	0	6
(1)	.00	.00	.00	.00	1.24	.62	.62	.00	.62	.62	.00	.00	.00	.00	.00	.00	.00	3.73
(2)	.00	.00	.00	.00	.05	.02	.02	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.14
1.1- 1.5	1	0	4	5	3	3	1	1	3	4	7	0	0	0	0	0	0	32
(1)	.62	.00	2.48	3.11	1.86	1.86	.62	.62	1.86	2.48	4.35	.00	.00	.00	.00	.00	.00	19.88
(2)	.02	.00	.09	.12	.07	.07	.02	.02	.07	.09	.16	.00	.00	.00	.00	.00	.00	.74
1.6- 2.0	2	3	2	1	0	0	1	2	2	3	7	2	0	0	0	0	0	25
(1)	1.24	1.86	1.24	.62	.00	.00	.62	1.24	1.24	1.86	4.35	1.24	.00	.00	.00	.00	.00	15.53
(2)	.05	.07	.05	.02	.00	.00	.02	.05	.05	.07	.16	.05	.00	.00	.00	.00	.00	.58
2.1- 3.0	1	5	4	0	0	0	2	0	3	5	15	1	1	1	4	2	0	44
(1)	.62	3.11	2.48	.00	.00	.00	1.24	.00	1.86	3.11	9.32	.62	.62	.62	2.48	1.24	.00	27.33
(2)	.02	.12	.09	.00	.00	.00	.05	.00	.07	.12	.35	.02	.02	.02	.09	.05	.00	1.02
3.1- 4.0	3	7	1	0	0	0	3	1	1	0	8	3	4	2	3	6	0	42
(1)	1.86	4.35	.62	.00	.00	.00	1.86	.62	.62	.00	4.97	1.86	2.48	1.24	1.86	3.73	.00	26.09
(2)	.07	.16	.02	.00	.00	.00	.07	.02	.02	.00	.19	.07	.09	.05	.07	.14	.00	.97
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	2	2	1	3	0	2	0	10
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.24	1.24	.62	1.86	.00	1.24	.00	6.21
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.02	.07	.00	.05	.00	.23
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-48—{SSES 33' (10-m) 2001-2006 September JFD - continued}

(Page 2 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.73**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.62	.00	.62
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.62	.00	.62
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	7	15	11	6	5	4	8	4	10	13	39	8	6	6	7	12	0	161
(1)	4.35	9.32	6.83	3.73	3.11	2.48	4.97	2.48	6.21	8.07	24.22	4.97	3.73	3.73	4.35	7.45	.00	100.00
(2)	.16	.35	.25	.14	.12	.09	.19	.09	.23	.30	.90	.19	.14	.14	.16	.28	.00	3.73

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-48—{SSES 33' (10-m) 2001-2006 September JFD - continued}

(Page 1 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS C — CLASS FREQUENCY (PERCENT) = 5.09

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	1	1	2	1	1	0	1	0	0	0	0	0	0	0	0	7
(1)	.00	.00	.45	.45	.91	.45	.45	.00	.45	.00	.00	.00	.00	.00	.00	.00	.00	3.18
(2)	.00	.00	.02	.02	.05	.02	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.16
1.1- 1.5	0	1	3	5	3	4	3	3	2	4	4	1	3	1	0	1	0	38
(1)	.00	.45	1.36	2.27	1.36	1.82	1.36	1.36	.91	1.82	1.82	.45	1.36	.45	.00	.45	.00	17.27
(2)	.00	.02	.07	.12	.07	.09	.07	.07	.05	.09	.09	.02	.07	.02	.00	.02	.00	.88
1.6- 2.0	0	7	2	3	0	2	1	3	2	3	10	3	2	0	0	0	0	38
(1)	.00	3.18	.91	1.36	.00	.91	.45	1.36	.91	1.36	4.55	1.36	.91	.00	.00	.00	.00	17.27
(2)	.00	.16	.05	.07	.00	.05	.02	.07	.05	.07	.23	.07	.05	.00	.00	.00	.00	.88
2.1- 3.0	1	13	6	0	0	1	2	3	7	5	18	6	1	3	1	2	0	69
(1)	.45	5.91	2.73	.00	.00	.45	.91	1.36	3.18	2.27	8.18	2.73	.45	1.36	.45	.91	.00	31.36
(2)	.02	.30	.14	.00	.00	.02	.05	.07	.16	.12	.42	.14	.02	.07	.02	.05	.00	1.60
3.1- 4.0	14	9	1	0	1	0	2	0	1	1	7	3	2	5	4	4	0	54
(1)	6.36	4.09	.45	.00	.45	.00	.91	.00	.45	.45	3.18	1.36	.91	2.27	1.82	1.82	.00	24.55
(2)	.32	.21	.02	.00	.02	.00	.05	.00	.02	.02	.16	.07	.05	.12	.09	.09	.00	1.25
4.1- 5.0	3	1	0	0	0	0	0	0	0	0	0	2	0	0	1	3	0	10
(1)	1.36	.45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.91	.00	.00	.45	1.36	.00	4.55
(2)	.07	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.02	.07	.00	.23
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.91	.00	.00	.00	.00	.00	.91
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05

Table 2.3-48—{SSES 33' (10-m) 2001-2006 September JFD - continued}

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SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 5.09**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.91	.00	.91
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	18	31	13	9	6	8	9	9	13	13	39	17	8	9	6	12	0	220
(1)	8.18	14.09	5.91	4.09	2.73	3.64	4.09	4.09	5.91	5.91	17.73	7.73	3.64	4.09	2.73	5.45	.00	100.00
(2)	.42	.72	.30	.21	.14	.19	.21	.21	.30	.30	.90	.39	.19	.21	.14	.28	.00	5.09

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-48—{SSES 33' (10-m) 2001-2006 September JFD - continued}

(Page 1 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS D — CLASS FREQUENCY (PERCENT) = 29.05

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.08	.16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24
(2)	.00	.00	.00	.00	.02	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
.5- 1.0	2	6	24	34	27	37	30	15	12	6	5	2	0	0	5	1	0	206
(1)	.16	.48	1.91	2.71	2.15	2.95	2.39	1.20	.96	.48	.40	.16	.00	.00	.40	.08	.00	16.41
(2)	.05	.14	.56	.79	.63	.86	.69	.35	.28	.14	.12	.05	.00	.00	.12	.02	.00	4.77
1.1- 1.5	10	30	36	25	17	10	9	10	23	19	19	9	4	3	5	2	0	231
(1)	.80	2.39	2.87	1.99	1.35	.80	.72	.80	1.83	1.51	1.51	.72	.32	.24	.40	.16	.00	18.41
(2)	.23	.69	.83	.58	.39	.23	.21	.23	.53	.44	.44	.21	.09	.07	.12	.05	.00	5.35
1.6- 2.0	14	42	25	11	7	7	15	14	27	30	22	11	4	1	3	5	0	238
(1)	1.12	3.35	1.99	.88	.56	.56	1.20	1.12	2.15	2.39	1.75	.88	.32	.08	.24	.40	.00	18.96
(2)	.32	.97	.58	.25	.16	.16	.35	.32	.63	.69	.51	.25	.09	.02	.07	.12	.00	5.51
2.1- 3.0	32	63	16	8	3	21	20	16	29	26	46	20	10	8	14	24	0	356
(1)	2.55	5.02	1.27	.64	.24	1.67	1.59	1.27	2.31	2.07	3.67	1.59	.80	.64	1.12	1.91	.00	28.37
(2)	.74	1.46	.37	.19	.07	.49	.46	.37	.67	.60	1.06	.46	.23	.19	.32	.56	.00	8.24
3.1- 4.0	24	26	2	6	0	1	2	3	8	8	23	9	4	5	15	15	0	151
(1)	1.91	2.07	.16	.48	.00	.08	.16	.24	.64	.64	1.83	.72	.32	.40	1.20	1.20	.00	12.03
(2)	.56	.60	.05	.14	.00	.02	.05	.07	.19	.19	.53	.21	.09	.12	.35	.35	.00	3.50
4.1- 5.0	3	2	0	1	0	0	0	0	5	2	10	11	4	2	3	4	0	47
(1)	.24	.16	.00	.08	.00	.00	.00	.00	.40	.16	.80	.88	.32	.16	.24	.32	.00	3.75
(2)	.07	.05	.00	.02	.00	.00	.00	.00	.12	.05	.23	.25	.09	.05	.07	.09	.00	1.09
5.1- 6.0	0	0	1	1	0	0	0	0	0	0	2	1	1	1	3	4	0	14
(1)	.00	.00	.08	.08	.00	.00	.00	.00	.00	.00	.16	.08	.08	.08	.24	.32	.00	1.12
(2)	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.05	.02	.02	.02	.07	.09	.00	.32

Table 2.3-48—{SSES 33' (10-m) 2001-2006 September JFD - continued}

(Page 2 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 29.05**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	2	0	0	1	0	2	0	0	0	1	0	2	1	0	9
(1)	.00	.00	.00	.16	.00	.00	.08	.00	.16	.00	.00	.00	.08	.00	.16	.08	.00	.72
(2)	.00	.00	.00	.05	.00	.00	.02	.00	.05	.00	.00	.00	.02	.00	.05	.02	.00	.21
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	85	169	104	88	55	78	77	58	106	91	127	63	28	20	50	56	0	1255
(1)	6.77	13.47	8.29	7.01	4.38	6.22	6.14	4.62	8.45	7.25	10.12	5.02	2.23	1.59	3.98	4.46	.00	100.00
(2)	1.97	3.91	2.41	2.04	1.27	1.81	1.78	1.34	2.45	2.11	2.94	1.46	.65	.46	1.16	1.30	.00	29.05

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-48—{SSES 33' (10-m) 2001-2006 September JFD - continued}

(Page 1 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 31.48**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	3	2	3	6	1	0	0	0	0	0	0	0	0	0	15
(1)	.00	.00	.00	.22	.15	.22	.44	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.10
(2)	.00	.00	.00	.07	.05	.07	.14	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.35
.5- 1.0	7	17	66	120	104	52	41	32	28	16	6	1	1	0	0	0	0	491
(1)	.51	1.25	4.85	8.82	7.65	3.82	3.01	2.35	2.06	1.18	.44	.07	.07	.00	.00	.00	.00	36.10
(2)	.16	.39	1.53	2.78	2.41	1.20	.95	.74	.65	.37	.14	.02	.02	.00	.00	.00	.00	11.37
1.1- 1.5	9	53	69	60	18	8	6	32	39	27	15	2	2	1	3	2	0	346
(1)	.66	3.90	5.07	4.41	1.32	.59	.44	2.35	2.87	1.99	1.10	.15	.15	.07	.22	.15	.00	25.44
(2)	.21	1.23	1.60	1.39	.42	.19	.14	.74	.90	.63	.35	.05	.05	.02	.07	.05	.00	8.01
1.6- 2.0	16	40	29	8	4	8	5	20	23	36	12	11	3	0	6	6	0	227
(1)	1.18	2.94	2.13	.59	.29	.59	.37	1.47	1.69	2.65	.88	.81	.22	.00	.44	.44	.00	16.69
(2)	.37	.93	.67	.19	.09	.19	.12	.46	.53	.83	.28	.25	.07	.00	.14	.14	.00	5.25
2.1- 3.0	16	39	20	6	1	5	6	9	14	16	16	4	7	3	4	11	0	177
(1)	1.18	2.87	1.47	.44	.07	.37	.44	.66	1.03	1.18	1.18	.29	.51	.22	.29	.81	.00	13.01
(2)	.37	.90	.46	.14	.02	.12	.14	.21	.32	.37	.37	.09	.16	.07	.09	.25	.00	4.10
3.1- 4.0	2	14	1	4	3	2	2	5	6	4	2	3	0	0	1	3	0	52
(1)	.15	1.03	.07	.29	.22	.15	.15	.37	.44	.29	.15	.22	.00	.00	.07	.22	.00	3.82
(2)	.05	.32	.02	.09	.07	.05	.05	.12	.14	.09	.05	.07	.00	.00	.02	.07	.00	1.20
4.1- 5.0	0	8	4	2	0	0	3	3	5	1	1	1	0	0	0	1	0	29
(1)	.00	.59	.29	.15	.00	.00	.22	.22	.37	.07	.07	.07	.00	.00	.00	.07	.00	2.13
(2)	.00	.19	.09	.05	.00	.00	.07	.07	.12	.02	.02	.02	.00	.00	.00	.02	.00	.67
5.1- 6.0	0	1	5	3	0	0	1	0	0	0	0	0	0	0	0	0	0	10
(1)	.00	.07	.37	.22	.00	.00	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.74
(2)	.00	.02	.12	.07	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.23

Table 2.3-48—{SSES 33' (10-m) 2001-2006 September JFD - continued}

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SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 31.48**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	3	0	2	0	2	4	0	0	0	1	0	0	0	0	0	0	12
(1)	.00	.22	.00	.15	.00	.15	.29	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00	.88
(2)	.00	.07	.00	.05	.00	.05	.09	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.28
8.1-10.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	50	176	194	208	132	80	74	102	115	100	53	22	13	4	14	23	0	1360
(1)	3.68	12.94	14.26	15.29	9.71	5.88	5.44	7.50	8.46	7.35	3.90	1.62	.96	.29	1.03	1.69	.00	100.00
(2)	1.16	4.07	4.49	4.81	3.06	1.85	1.71	2.36	2.66	2.31	1.23	.51	.30	.09	.32	.53	.00	31.48

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-48—{SSES 33' (10-m) 2001-2006 September JFD - continued}

(Page 1 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 16.25**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	3	0	1	1	0	0	0	0	0	0	0	0	0	0	5
(1)	.00	.00	.00	.43	.00	.14	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.71
(2)	.00	.00	.00	.07	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12
.5- 1.0	2	5	38	191	75	30	13	18	10	3	0	0	0	0	0	0	0	385
(1)	.28	.71	5.41	27.21	10.68	4.27	1.85	2.56	1.42	.43	.00	.00	.00	.00	.00	.00	.00	54.84
(2)	.05	.12	.88	4.42	1.74	.69	.30	.42	.23	.07	.00	.00	.00	.00	.00	.00	.00	8.91
1.1- 1.5	3	10	46	159	22	1	1	7	11	5	1	1	0	0	1	0	0	268
(1)	.43	1.42	6.55	22.65	3.13	.14	.14	1.00	1.57	.71	.14	.14	.00	.00	.14	.00	.00	38.18
(2)	.07	.23	1.06	3.68	.51	.02	.02	.16	.25	.12	.02	.02	.00	.00	.02	.00	.00	6.20
1.6- 2.0	1	9	3	22	0	0	0	1	2	2	1	0	0	0	0	1	0	42
(1)	.14	1.28	.43	3.13	.00	.00	.00	.14	.28	.28	.14	.00	.00	.00	.00	.14	.00	5.98
(2)	.02	.21	.07	.51	.00	.00	.00	.02	.05	.05	.02	.00	.00	.00	.00	.02	.00	.97
2.1- 3.0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.28
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-48—{SSES 33' (10-m) 2001-2006 September JFD - continued}

(Page 2 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 16.25**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	6	26	87	375	97	32	15	26	23	10	2	1	0	0	1	1	0	702
(1)	.85	3.70	12.39	53.42	13.82	4.56	2.14	3.70	3.28	1.42	.28	.14	.00	.00	.14	.14	.00	100.00
(2)	.14	.60	2.01	8.68	2.25	.74	.35	.60	.53	.23	.05	.02	.00	.00	.02	.02	.00	16.25

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-48—{SSES 33' (10-m) 2001-2006 September JFD - continued}

(Page 1 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 7.38

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	2	3	22	105	40	10	3	2	2	0	0	0	0	0	0	0	0	189
(1)	.63	.94	6.90	32.92	12.54	3.13	.94	.63	.63	.00	.00	.00	.00	.00	.00	.00	.00	59.25
(2)	.05	.07	.51	2.43	.93	.23	.07	.05	.05	.00	.00	.00	.00	.00	.00	.00	.00	4.38
1.1- 1.5	0	0	21	103	1	0	0	0	1	0	0	0	0	0	0	0	0	126
(1)	.00	.00	6.58	32.29	.31	.00	.00	.00	.31	.00	.00	.00	.00	.00	.00	.00	.00	39.50
(2)	.00	.00	.49	2.38	.02	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	2.92
1.6- 2.0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
(1)	.00	.00	.00	1.25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.25
(2)	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
2.1- 3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-48—{SSES 33' (10-m) 2001-2006 September JFD - continued}

(Page 2 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 7.38**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	2	3	43	212	41	10	3	2	3	0	0	0	0	0	0	0	0	319
(1)	.63	.94	13.48	66.46	12.85	3.13	.94	.63	.94	.00	.00	.00	.00	.00	.00	.00	.00	100.00
(2)	.05	.07	1.00	4.91	.95	.23	.07	.05	.07	.00	.00	.00	.00	.00	.00	.00	.00	7.38

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-48—{SSES 33' (10-m) 2001-2006 September JFD - continued}

(Page 1 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	6	3	6	7	1	0	0	0	0	0	0	0	0	0	23
(1)	.00	.00	.00	.14	.07	.14	.16	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.53
(2)	.00	.00	.00	.14	.07	.14	.16	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.53
.5- 1.0	13	31	151	452	253	136	90	68	54	27	12	3	1	0	5	1	0	1297
(1)	.30	.72	3.50	10.46	5.86	3.15	2.08	1.57	1.25	.63	.28	.07	.02	.00	.12	.02	.00	30.02
(2)	.30	.72	3.50	10.46	5.86	3.15	2.08	1.57	1.25	.63	.28	.07	.02	.00	.12	.02	.00	30.02
1.1- 1.5	23	98	183	361	71	35	25	57	82	63	51	16	10	5	9	6	0	1095
(1)	.53	2.27	4.24	8.36	1.64	.81	.58	1.32	1.90	1.46	1.18	.37	.23	.12	.21	.14	.00	25.35
(2)	.53	2.27	4.24	8.36	1.64	.81	.58	1.32	1.90	1.46	1.18	.37	.23	.12	.21	.14	.00	25.35
1.6- 2.0	35	104	68	52	15	19	24	44	62	78	59	29	9	1	9	12	0	620
(1)	.81	2.41	1.57	1.20	.35	.44	.56	1.02	1.44	1.81	1.37	.67	.21	.02	.21	.28	.00	14.35
(2)	.81	2.41	1.57	1.20	.35	.44	.56	1.02	1.44	1.81	1.37	.67	.21	.02	.21	.28	.00	14.35
2.1- 3.0	52	131	51	15	5	27	38	36	61	72	119	37	20	15	28	41	0	748
(1)	1.20	3.03	1.18	.35	.12	.63	.88	.83	1.41	1.67	2.75	.86	.46	.35	.65	.95	.00	17.31
(2)	1.20	3.03	1.18	.35	.12	.63	.88	.83	1.41	1.67	2.75	.86	.46	.35	.65	.95	.00	17.31
3.1- 4.0	52	58	10	10	4	3	10	21	21	24	56	24	12	14	23	30	0	372
(1)	1.20	1.34	.23	.23	.09	.07	.23	.49	.49	.56	1.30	.56	.28	.32	.53	.69	.00	8.61
(2)	1.20	1.34	.23	.23	.09	.07	.23	.49	.49	.56	1.30	.56	.28	.32	.53	.69	.00	8.61
4.1- 5.0	8	11	4	3	0	0	3	3	12	5	20	20	5	5	4	10	0	113
(1)	.19	.25	.09	.07	.00	.00	.07	.07	.28	.12	.46	.46	.12	.12	.09	.23	.00	2.62
(2)	.19	.25	.09	.07	.00	.00	.07	.07	.28	.12	.46	.46	.12	.12	.09	.23	.00	2.62
5.1- 6.0	0	1	6	4	0	0	1	0	0	0	2	3	1	1	3	4	0	26
(1)	.00	.02	.14	.09	.00	.00	.02	.00	.00	.00	.05	.07	.02	.02	.07	.09	.00	.60
(2)	.00	.02	.14	.09	.00	.00	.02	.00	.00	.00	.05	.07	.02	.02	.07	.09	.00	.60

Table 2.3-48—{SSES 33' (10-m) 2001-2006 September JFD - continued}
(Page 2 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	3	0	4	0	2	5	0	2	0	1	0	1	0	2	4	0	24
(1)	.00	.07	.00	.09	.00	.05	.12	.00	.05	.00	.02	.00	.02	.00	.05	.09	.00	.56
(2)	.00	.07	.00	.09	.00	.05	.12	.00	.05	.00	.02	.00	.02	.00	.05	.09	.00	.56
8.1-10.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2
(1)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.05
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.05
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	183	438	473	907	351	228	203	230	294	269	320	132	59	41	83	109	0	4320
(1)	4.24	10.14	10.95	21.00	8.12	5.28	4.70	5.32	6.81	6.23	7.41	3.06	1.37	.95	1.92	2.52	.00	100.00
(2)	4.24	10.14	10.95	21.00	8.12	5.28	4.70	5.32	6.81	6.23	7.41	3.06	1.37	.95	1.92	2.52	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-49 {SSES 33' (10-m) 2001-2006 October JFD}

(Page 1 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 2.55**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	1	0	1	0	1	1	1	0	0	0	0	0	0	0	0	5
(1)	.00	.00	.89	.00	.89	.00	.89	.89	.89	.00	.00	.00	.00	.00	.00	.00	.00	4.46
(2)	.00	.00	.02	.00	.02	.00	.02	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.11
1.1- 1.5	0	1	0	0	0	3	3	1	2	0	1	4	0	0	1	1	0	17
(1)	.00	.89	.00	.00	.00	2.68	2.68	.89	1.79	.00	.89	3.57	.00	.00	.89	.89	.00	15.18
(2)	.00	.02	.00	.00	.00	.07	.07	.02	.05	.00	.02	.09	.00	.00	.02	.02	.00	.39
1.6- 2.0	0	0	1	1	0	0	1	3	1	6	3	3	0	0	0	0	0	19
(1)	.00	.00	.89	.89	.00	.00	.89	2.68	.89	5.36	2.68	2.68	.00	.00	.00	.00	.00	16.96
(2)	.00	.00	.02	.02	.00	.00	.02	.07	.02	.14	.07	.07	.00	.00	.00	.00	.00	.43
2.1- 3.0	0	1	4	0	0	0	0	3	7	4	17	2	0	0	0	0	0	38
(1)	.00	.89	3.57	.00	.00	.00	.00	2.68	6.25	3.57	15.18	1.79	.00	.00	.00	.00	.00	33.93
(2)	.00	.02	.09	.00	.00	.00	.00	.07	.16	.09	.39	.05	.00	.00	.00	.00	.00	.87
3.1- 4.0	0	3	1	0	0	0	2	1	1	0	11	3	0	0	0	0	0	22
(1)	.00	2.68	.89	.00	.00	.00	1.79	.89	.89	.00	9.82	2.68	.00	.00	.00	.00	.00	19.64
(2)	.00	.07	.02	.00	.00	.00	.05	.02	.02	.00	.25	.07	.00	.00	.00	.00	.00	.50
4.1- 5.0	0	0	0	0	0	0	0	0	0	1	7	2	0	0	0	0	0	10
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.89	6.25	1.79	.00	.00	.00	.00	.00	8.93
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.16	.05	.00	.00	.00	.00	.00	.23
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.89	.00	.00	.00	.00	.00	.00	.89
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02

Table 2.3-49 {SSES 33' (10-m) 2001-2006 October JFD}

(Page 2 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 2.55**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	5	7	1	1	3	7	9	12	11	40	14	0	0	1	1	0	112
(1)	.00	4.46	6.25	.89	.89	2.68	6.25	8.04	10.71	9.82	35.71	12.50	.00	.00	.89	.89	.00	100.00
(2)	.00	.11	.16	.02	.02	.07	.16	.21	.27	.25	.91	.32	.00	.00	.02	.02	.00	2.55

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-49—{SSES 33' (10-m) 2001-2006 October JFD - continued}

(Page 1 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 2.39**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	2	0	2	0	1	0	0	0	0	0	0	1	0	0	0	6
(1)	.00	.00	1.90	.00	1.90	.00	.95	.00	.00	.00	.00	.00	.00	.95	.00	.00	.00	5.71
(2)	.00	.00	.05	.00	.05	.00	.02	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.14
1.1- 1.5	2	0	0	2	1	0	1	0	1	2	0	0	0	0	0	0	0	9
(1)	1.90	.00	.00	1.90	.95	.00	.95	.00	.95	1.90	.00	.00	.00	.00	.00	.00	.00	8.57
(2)	.05	.00	.00	.05	.02	.00	.02	.00	.02	.05	.00	.00	.00	.00	.00	.00	.00	.21
1.6- 2.0	1	0	0	1	0	0	0	1	1	2	2	1	0	0	0	0	0	9
(1)	.95	.00	.00	.95	.00	.00	.00	.95	.95	1.90	1.90	.95	.00	.00	.00	.00	.00	8.57
(2)	.02	.00	.00	.02	.00	.00	.00	.02	.02	.05	.05	.02	.00	.00	.00	.00	.00	.21
2.1- 3.0	0	3	1	1	0	0	4	0	2	1	13	2	0	0	0	1	0	28
(1)	.00	2.86	.95	.95	.00	.00	3.81	.00	1.90	.95	12.38	1.90	.00	.00	.00	.95	.00	26.67
(2)	.00	.07	.02	.02	.00	.00	.09	.00	.05	.02	.30	.05	.00	.00	.00	.02	.00	.64
3.1- 4.0	1	3	2	0	0	0	2	1	0	1	9	6	2	0	0	0	0	27
(1)	.95	2.86	1.90	.00	.00	.00	1.90	.95	.00	.95	8.57	5.71	1.90	.00	.00	.00	.00	25.71
(2)	.02	.07	.05	.00	.00	.00	.05	.02	.00	.02	.21	.14	.05	.00	.00	.00	.00	.62
4.1- 5.0	0	0	0	0	0	0	0	0	2	0	7	6	2	0	0	0	0	17
(1)	.00	.00	.00	.00	.00	.00	.00	.00	1.90	.00	6.67	5.71	1.90	.00	.00	.00	.00	16.19
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.16	.14	.05	.00	.00	.00	.00	.39
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.90	2.86	.00	.00	.00	.00	.00	4.76
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.07	.00	.00	.00	.00	.00	.11

Table 2.3-49—{SSES 33' (10-m) 2001-2006 October JFD - continued}

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SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 2.39**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.86	.95	.00	.00	.00	.00	.00	3.81
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.02	.00	.00	.00	.00	.00	.09
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	4	6	5	4	3	0	8	2	6	6	36	19	4	1	0	1	0	105
(1)	3.81	5.71	4.76	3.81	2.86	.00	7.62	1.90	5.71	5.71	34.29	18.10	3.81	.95	.00	.95	.00	100.00
(2)	.09	.14	.11	.09	.07	.00	.18	.05	.14	.14	.82	.43	.09	.02	.00	.02	.00	2.39

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-49—{SSES 33' (10-m) 2001-2006 October JFD - continued}

(Page 1 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 3.69**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	1.23	.00	.00	.62	.00	.00	.00	.00	.00	.00	.00	.00	1.85
(2)	.00	.00	.00	.00	.00	.05	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.07
1.1- 1.5	1	0	1	1	0	0	0	0	0	2	3	0	0	0	0	0	0	8
(1)	.62	.00	.62	.62	.00	.00	.00	.00	.00	1.23	1.85	.00	.00	.00	.00	.00	.00	4.94
(2)	.02	.00	.02	.02	.00	.00	.00	.00	.00	.05	.07	.00	.00	.00	.00	.00	.00	.18
1.6- 2.0	0	2	0	3	0	2	1	2	1	1	3	3	1	1	0	0	0	20
(1)	.00	1.23	.00	1.85	.00	1.23	.62	1.23	.62	.62	1.85	1.85	.62	.62	.00	.00	.00	12.35
(2)	.00	.05	.00	.07	.00	.05	.02	.05	.02	.02	.07	.07	.02	.02	.00	.00	.00	.46
2.1- 3.0	2	5	5	1	0	0	2	2	3	3	19	5	1	0	0	0	0	48
(1)	1.23	3.09	3.09	.62	.00	.00	1.23	1.23	1.85	1.85	11.73	3.09	.62	.00	.00	.00	.00	29.63
(2)	.05	.11	.11	.02	.00	.00	.05	.05	.07	.07	.43	.11	.02	.00	.00	.00	.00	1.09
3.1- 4.0	5	6	0	0	0	0	2	1	6	1	17	5	4	1	1	2	0	51
(1)	3.09	3.70	.00	.00	.00	.00	1.23	.62	3.70	.62	10.49	3.09	2.47	.62	.62	1.23	.00	31.48
(2)	.11	.14	.00	.00	.00	.00	.05	.02	.14	.02	.39	.11	.09	.02	.02	.05	.00	1.16
4.1- 5.0	2	1	0	0	0	0	0	0	1	1	4	7	7	0	0	0	0	23
(1)	1.23	.62	.00	.00	.00	.00	.00	.00	.62	.62	2.47	4.32	4.32	.00	.00	.00	.00	14.20
(2)	.05	.02	.00	.00	.00	.00	.00	.00	.02	.02	.09	.16	.16	.00	.00	.00	.00	.52
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.62	.62	.62	.00	.00	.00	.00	1.85
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.02	.00	.00	.00	.00	.07

Table 2.3-49—{SSES 33' (10-m) 2001-2006 October JFD - continued}

(Page 2 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 3.69**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.62	2.47	.00	.00	.00	.00	.00	3.09
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.09	.00	.00	.00	.00	.00	.11
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.62	.00	.00	.00	.00	.00	.62
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	10	14	6	5	0	4	5	5	12	8	48	26	14	2	1	2	0	162
(1)	6.17	8.64	3.70	3.09	.00	2.47	3.09	3.09	7.41	4.94	29.63	16.05	8.64	1.23	.62	1.23	.00	100.00
(2)	.23	.32	.14	.11	.00	.09	.11	.11	.27	.18	1.09	.59	.32	.05	.02	.05	.00	3.69

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-49—{SSES 33' (10-m) 2001-2006 October JFD - continued}

(Page 1 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 37.57**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06
(2)	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.2- .4	0	0	0	2	2	0	1	1	0	0	0	0	0	0	0	0	0	6
(1)	.00	.00	.00	.12	.12	.00	.06	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.36
(2)	.00	.00	.00	.05	.05	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
.5- 1.0	6	13	21	23	32	33	19	23	12	11	2	3	0	0	1	2	0	201
(1)	.36	.79	1.27	1.39	1.94	2.00	1.15	1.39	.73	.67	.12	.18	.00	.00	.06	.12	.00	12.19
(2)	.14	.30	.48	.52	.73	.75	.43	.52	.27	.25	.05	.07	.00	.00	.02	.05	.00	4.58
1.1- 1.5	7	39	22	14	16	10	12	15	14	21	24	10	1	1	2	2	0	210
(1)	.42	2.37	1.33	.85	.97	.61	.73	.91	.85	1.27	1.46	.61	.06	.06	.12	.12	.00	12.73
(2)	.16	.89	.50	.32	.36	.23	.27	.34	.32	.48	.55	.23	.02	.02	.05	.05	.00	4.78
1.6- 2.0	16	29	28	9	11	6	21	14	11	18	26	13	7	10	3	4	0	226
(1)	.97	1.76	1.70	.55	.67	.36	1.27	.85	.67	1.09	1.58	.79	.42	.61	.18	.24	.00	13.71
(2)	.36	.66	.64	.21	.25	.14	.48	.32	.25	.41	.59	.30	.16	.23	.07	.09	.00	5.15
2.1- 3.0	46	71	39	10	3	15	21	14	22	27	53	28	24	16	17	24	0	430
(1)	2.79	4.31	2.37	.61	.18	.91	1.27	.85	1.33	1.64	3.21	1.70	1.46	.97	1.03	1.46	.00	26.08
(2)	1.05	1.62	.89	.23	.07	.34	.48	.32	.50	.62	1.21	.64	.55	.36	.39	.55	.00	9.80
3.1- 4.0	34	26	2	1	0	1	11	3	6	12	31	31	21	18	36	29	0	262
(1)	2.06	1.58	.12	.06	.00	.06	.67	.18	.36	.73	1.88	1.88	1.27	1.09	2.18	1.76	.00	15.89
(2)	.77	.59	.05	.02	.00	.02	.25	.07	.14	.27	.71	.71	.48	.41	.82	.66	.00	5.97
4.1- 5.0	13	2	0	0	0	0	1	0	4	1	17	10	31	28	47	17	0	171
(1)	.79	.12	.00	.00	.00	.00	.06	.00	.24	.06	1.03	.61	1.88	1.70	2.85	1.03	.00	10.37
(2)	.30	.05	.00	.00	.00	.00	.02	.00	.09	.02	.39	.23	.71	.64	1.07	.39	.00	3.90
5.1- 6.0	1	0	0	0	0	0	2	0	0	0	10	23	8	9	10	2	0	65
(1)	.06	.00	.00	.00	.00	.00	.12	.00	.00	.00	.61	1.39	.49	.55	.61	.12	.00	3.94
(2)	.02	.00	.00	.00	.00	.00	.05	.00	.00	.00	.23	.52	.18	.21	.23	.05	.00	1.48

Table 2.3-49—{SSES 33' (10-m) 2001-2006 October JFD - continued}

(Page 2 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 37.57**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	10	42	3	2	1	0	0	58
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.61	2.55	.18	.12	.06	.00	.00	3.52
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.23	.96	.07	.05	.02	.00	.00	1.32
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	13	5	0	0	0	0	19
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.79	.30	.00	.00	.00	.00	1.15
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.30	.11	.00	.00	.00	.00	.43
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	123	180	112	60	64	65	88	70	69	90	174	173	100	84	117	80	0	1649
(1)	7.46	10.92	6.79	3.64	3.88	3.94	5.34	4.24	4.18	5.46	10.55	10.49	6.06	5.09	7.10	4.85	.00	100.00
(2)	2.80	4.10	2.55	1.37	1.46	1.48	2.01	1.59	1.57	2.05	3.96	3.94	2.28	1.91	2.67	1.82	.00	37.57

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-49—{SSES 33' (10-m) 2001-2006 October JFD - continued}

(Page 1 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 32.38**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.00	.14	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.21
(2)	.00	.00	.00	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
.2- .4	0	0	5	6	8	7	3	5	1	0	0	0	1	0	0	0	0	36
(1)	.00	.00	.35	.42	.56	.49	.21	.35	.07	.00	.00	.00	.07	.00	.00	.00	.00	2.53
(2)	.00	.00	.11	.14	.18	.16	.07	.11	.02	.00	.00	.00	.02	.00	.00	.00	.00	.82
.5- 1.0	10	30	48	90	70	57	50	39	33	20	7	3	1	1	2	2	0	463
(1)	.70	2.11	3.38	6.33	4.93	4.01	3.52	2.74	2.32	1.41	.49	.21	.07	.07	.14	.14	.00	32.58
(2)	.23	.68	1.09	2.05	1.59	1.30	1.14	.89	.75	.46	.16	.07	.02	.02	.05	.05	.00	10.55
1.1- 1.5	16	52	66	48	10	6	18	17	44	42	20	9	4	2	1	4	0	359
(1)	1.13	3.66	4.64	3.38	.70	.42	1.27	1.20	3.10	2.96	1.41	.63	.28	.14	.07	.28	.00	25.26
(2)	.36	1.18	1.50	1.09	.23	.14	.41	.39	1.00	.96	.46	.21	.09	.05	.02	.09	.00	8.18
1.6- 2.0	16	35	31	9	3	0	2	6	25	38	21	13	4	6	2	3	0	214
(1)	1.13	2.46	2.18	.63	.21	.00	.14	.42	1.76	2.67	1.48	.91	.28	.42	.14	.21	.00	15.06
(2)	.36	.80	.71	.21	.07	.00	.05	.14	.57	.87	.48	.30	.09	.14	.05	.07	.00	4.88
2.1- 3.0	9	62	22	1	2	4	7	8	19	32	31	10	9	5	11	9	0	241
(1)	.63	4.36	1.55	.07	.14	.28	.49	.56	1.34	2.25	2.18	.70	.63	.35	.77	.63	.00	16.96
(2)	.21	1.41	.50	.02	.05	.09	.16	.18	.43	.73	.71	.23	.21	.11	.25	.21	.00	5.49
3.1- 4.0	4	13	5	0	0	4	5	8	3	7	19	10	2	0	1	5	0	86
(1)	.28	.91	.35	.00	.00	.28	.35	.56	.21	.49	1.34	.70	.14	.00	.07	.35	.00	6.05
(2)	.09	.30	.11	.00	.00	.09	.11	.18	.07	.16	.43	.23	.05	.00	.02	.11	.00	1.96
4.1- 5.0	0	0	0	0	0	1	3	0	0	1	4	1	0	0	1	1	0	12
(1)	.00	.00	.00	.00	.00	.07	.21	.00	.00	.07	.28	.07	.00	.00	.07	.07	.00	.84
(2)	.00	.00	.00	.00	.00	.02	.07	.00	.00	.02	.09	.02	.00	.00	.02	.02	.00	.27
5.1- 6.0	0	0	0	0	0	0	1	0	1	0	1	2	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.07	.00	.07	.00	.07	.14	.00	.00	.00	.00	.00	.35
(2)	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.02	.05	.00	.00	.00	.00	.00	.11

Table 2.3-49—{SSES 33' (10-m) 2001-2006 October JFD - continued}

(Page 2 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 32.38**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	.14
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	55	192	177	156	94	79	89	83	126	140	103	50	21	14	18	24	0	1421
(1)	3.87	13.51	12.46	10.98	6.62	5.56	6.26	5.84	8.87	9.85	7.25	3.52	1.48	.99	1.27	1.69	.00	100.00
(2)	1.25	4.37	4.03	3.55	2.14	1.80	2.03	1.89	2.87	3.19	2.35	1.14	.48	.32	.41	.55	.00	32.38

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-49—{SSES 33' (10-m) 2001-2006 October JFD - continued}

(Page 1 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 12.28**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.2- .4	1	0	2	4	9	3	1	3	0	0	2	0	0	0	0	0	0	25
(1)	.19	.00	.37	.74	1.67	.56	.19	.56	.00	.00	.37	.00	.00	.00	.00	.00	.00	4.64
(2)	.02	.00	.05	.09	.21	.07	.02	.07	.00	.00	.05	.00	.00	.00	.00	.00	.00	.57
.5- 1.0	0	3	42	136	69	23	17	11	13	3	2	3	1	0	2	2	0	327
(1)	.00	.56	7.79	25.23	12.80	4.27	3.15	2.04	2.41	.56	.37	.56	.19	.00	.37	.37	.00	60.67
(2)	.00	.07	.96	3.10	1.57	.52	.39	.25	.30	.07	.05	.07	.02	.00	.05	.05	.00	7.45
1.1- 1.5	1	11	23	83	11	1	1	4	8	9	3	0	0	1	0	0	0	156
(1)	.19	2.04	4.27	15.40	2.04	.19	.19	.74	1.48	1.67	.56	.00	.00	.19	.00	.00	.00	28.94
(2)	.02	.25	.52	1.89	.25	.02	.02	.09	.18	.21	.07	.00	.00	.02	.00	.00	.00	3.55
1.6- 2.0	0	4	5	13	0	0	0	2	1	4	1	0	0	0	0	0	0	30
(1)	.00	.74	.93	2.41	.00	.00	.00	.37	.19	.74	.19	.00	.00	.00	.00	.00	.00	5.57
(2)	.00	.09	.11	.30	.00	.00	.00	.05	.02	.09	.02	.00	.00	.00	.00	.00	.00	.68
2.1- 3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-49—{SSES 33' (10-m) 2001-2006 October JFD - continued}

(Page 2 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 12.28**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	2	19	72	236	89	27	19	20	22	16	8	3	1	1	2	2	0	539
(1)	.37	3.53	13.36	43.78	16.51	5.01	3.53	3.71	4.08	2.97	1.48	.56	.19	.19	.37	.37	.00	100.00
(2)	.05	.43	1.64	5.38	2.03	.62	.43	.46	.50	.36	.18	.07	.02	.02	.05	.05	.00	12.28

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-49—{SSES 33' (10-m) 2001-2006 October JFD - continued}

(Page 1 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 9.14**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.2- .4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	1	4	37	128	47	13	9	4	2	1	0	0	0	0	1	0	0	247
(1)	.25	1.00	9.23	31.92	11.72	3.24	2.24	1.00	.50	.25	.00	.00	.00	.00	.25	.00	.00	61.60
(2)	.02	.09	.84	2.92	1.07	.30	.21	.09	.05	.02	.00	.00	.00	.00	.02	.00	.00	5.63
1.1- 1.5	0	2	12	116	8	0	0	0	1	1	0	0	0	0	0	0	0	140
(1)	.00	.50	2.99	28.93	2.00	.00	.00	.00	.25	.25	.00	.00	.00	.00	.00	.00	.00	34.91
(2)	.00	.05	.27	2.64	.18	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	3.19
1.6- 2.0	0	0	1	10	1	0	0	0	0	0	0	0	0	0	0	0	0	12
(1)	.00	.00	.25	2.49	.25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.99
(2)	.00	.00	.02	.23	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.27
2.1- 3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-49—{SSES 33' (10-m) 2001-2006 October JFD - continued}

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SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 9.14**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	3	6	50	254	56	13	9	4	3	2	0	0	0	0	1	0	0	401
(1)	.75	1.50	12.47	63.34	13.97	3.24	2.24	1.00	.75	.50	.00	.00	.00	.00	.25	.00	.00	100.00
(2)	.07	.14	1.14	5.79	1.28	.30	.21	.09	.07	.05	.00	.00	.00	.00	.02	.00	.00	9.14

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-49—{SSES 33' (10-m) 2001-2006 October JFD - continued}

(Page 1 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	1	1	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	6
(1)	.02	.02	.00	.07	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
(2)	.02	.02	.00	.07	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
.2- .4	2	0	7	12	19	10	5	9	1	0	2	0	1	0	0	0	0	68
(1)	.05	.00	.16	.27	.43	.23	.11	.21	.02	.00	.05	.00	.02	.00	.00	.00	.00	1.55
(2)	.05	.00	.16	.27	.43	.23	.11	.21	.02	.00	.05	.00	.02	.00	.00	.00	.00	1.55
.5- 1.0	17	50	151	377	221	128	97	78	62	35	11	9	2	2	6	6	0	1252
(1)	.39	1.14	3.44	8.59	5.04	2.92	2.21	1.78	1.41	.80	.25	.21	.05	.05	.14	.14	.00	28.53
(2)	.39	1.14	3.44	8.59	5.04	2.92	2.21	1.78	1.41	.80	.25	.21	.05	.05	.14	.14	.00	28.53
1.1- 1.5	27	105	124	264	46	20	35	37	70	77	51	23	5	4	4	7	0	899
(1)	.62	2.39	2.83	6.02	1.05	.46	.80	.84	1.59	1.75	1.16	.52	.11	.09	.09	.16	.00	20.48
(2)	.62	2.39	2.83	6.02	1.05	.46	.80	.84	1.59	1.75	1.16	.52	.11	.09	.09	.16	.00	20.48
1.6- 2.0	33	70	66	46	15	8	25	28	40	69	56	33	12	17	5	7	0	530
(1)	.75	1.59	1.50	1.05	.34	.18	.57	.64	.91	1.57	1.28	.75	.27	.39	.11	.16	.00	12.08
(2)	.75	1.59	1.50	1.05	.34	.18	.57	.64	.91	1.57	1.28	.75	.27	.39	.11	.16	.00	12.08
2.1- 3.0	57	142	71	13	5	19	34	27	53	67	133	47	34	21	28	34	0	785
(1)	1.30	3.24	1.62	.30	.11	.43	.77	.62	1.21	1.53	3.03	1.07	.77	.48	.64	.77	.00	17.89
(2)	1.30	3.24	1.62	.30	.11	.43	.77	.62	1.21	1.53	3.03	1.07	.77	.48	.64	.77	.00	17.89
3.1- 4.0	44	51	10	1	0	5	22	14	16	21	87	55	29	19	38	36	0	448
(1)	1.00	1.16	.23	.02	.00	.11	.50	.32	.36	.48	1.98	1.25	.66	.43	.87	.82	.00	10.21
(2)	1.00	1.16	.23	.02	.00	.11	.50	.32	.36	.48	1.98	1.25	.66	.43	.87	.82	.00	10.21
4.1- 5.0	15	3	0	0	0	1	4	0	7	4	39	26	40	28	48	18	0	233
(1)	.34	.07	.00	.00	.00	.02	.09	.00	.16	.09	.89	.59	.91	.64	1.09	.41	.00	5.31
(2)	.34	.07	.00	.00	.00	.02	.09	.00	.16	.09	.89	.59	.91	.64	1.09	.41	.00	5.31
5.1- 6.0	1	0	0	0	0	0	3	0	1	0	15	29	9	9	10	2	0	79
(1)	.02	.00	.00	.00	.00	.00	.07	.00	.02	.00	.34	.66	.21	.21	.23	.05	.00	1.80
(2)	.02	.00	.00	.00	.00	.00	.07	.00	.02	.00	.34	.66	.21	.21	.23	.05	.00	1.80

Table 2.3-49—{SSES 33' (10-m) 2001-2006 October JFD - continued}

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SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS ALL — CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	14	49	3	2	1	0	0	69
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.32	1.12	.07	.05	.02	.00	.00	1.57
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.32	1.12	.07	.05	.02	.00	.00	1.57
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	14	5	0	0	0	0	20
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.32	.11	.00	.00	.00	.00	.46
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.32	.11	.00	.00	.00	.00	.46
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	197	422	429	716	307	191	225	193	250	273	409	285	140	102	140	110	0	4389
(1)	4.49	9.61	9.77	16.31	6.99	4.35	5.13	4.40	5.70	6.22	9.32	6.49	3.19	2.32	3.19	2.51	.00	100.00
(2)	4.49	9.61	9.77	16.31	6.99	4.35	5.13	4.40	5.70	6.22	9.32	6.49	3.19	2.32	3.19	2.51	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-50 {SSES 33' (10-m) 2001-2006 November JFD}

(Page 1 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = .87

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.1- 1.5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	2.78	.00	.00	.00	.00	.00	.00	.00	.00	2.78
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.02
1.6- 2.0	0	0	0	0	0	0	0	0	4	2	1	0	0	0	0	0	0	7
(1)	.00	.00	.00	.00	.00	.00	.00	.00	11.11	5.56	2.78	.00	.00	.00	.00	.00	.00	19.44
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.10	.05	.02	.00	.00	.00	.00	.00	.00	.17
2.1- 3.0	1	0	0	0	0	0	0	0	3	2	5	0	0	0	0	0	0	11
(1)	2.78	.00	.00	.00	.00	.00	.00	.00	8.33	5.56	13.89	.00	.00	.00	.00	.00	.00	30.56
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.07	.05	.12	.00	.00	.00	.00	.00	.00	.26
3.1- 4.0	0	0	0	0	0	0	0	0	2	1	8	0	0	0	0	2	0	13
(1)	.00	.00	.00	.00	.00	.00	.00	.00	5.56	2.78	22.22	.00	.00	.00	.00	5.56	.00	36.11
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.02	.19	.00	.00	.00	.00	.05	.00	.31
4.1- 5.0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	5.56	2.78	2.78	.00	.00	.00	.00	.00	.00	11.11
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.02	.02	.00	.00	.00	.00	.00	.00	.10
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-50 {SSES 33' (10-m) 2001-2006 November JFD}

(Page 2 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = .87**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	1	0	0	0	0	0	0	0	12	6	15	0	0	0	0	2	0	36
(1)	2.78	.00	.00	.00	.00	.00	.00	.00	33.33	16.67	41.67	.00	.00	.00	.00	5.56	.00	100.00
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.29	.14	.36	.00	.00	.00	.00	.05	.00	.87

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-50—{SSES 33' (10-m) 2001-2006 November JFD - continued}

(Page 1 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA   STABILITY CLASS B   CLASS FREQUENCY (PERCENT) = 1.37

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.1- 1.5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.75	.00	.00	.00	.00	.00	.00	.00	1.75
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02
1.6- 2.0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	1.75	.00	1.75	.00	1.75	.00	.00	.00	.00	.00	5.26
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.02	.00	.00	.00	.00	.00	.07
2.1- 3.0	0	0	1	0	0	0	0	1	3	4	8	0	0	0	0	0	0	17
(1)	.00	.00	1.75	.00	.00	.00	.00	1.75	5.26	7.02	14.04	.00	.00	.00	.00	.00	.00	29.82
(2)	.00	.00	.02	.00	.00	.00	.00	.02	.07	.10	.19	.00	.00	.00	.00	.00	.00	.41
3.1- 4.0	0	0	0	0	0	0	0	0	1	2	7	4	1	0	0	0	0	15
(1)	.00	.00	.00	.00	.00	.00	.00	.00	1.75	3.51	12.28	7.02	1.75	.00	.00	.00	.00	26.32
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.17	.10	.02	.00	.00	.00	.00	.36
4.1- 5.0	0	0	0	0	0	0	0	1	2	1	6	3	1	0	0	0	0	14
(1)	.00	.00	.00	.00	.00	.00	.00	1.75	3.51	1.75	10.53	5.26	1.75	.00	.00	.00	.00	24.56
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.05	.02	.14	.07	.02	.00	.00	.00	.00	.34
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	7
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	12.28	.00	.00	.00	.00	.00	.00	12.28
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.17	.00	.00	.00	.00	.00	.00	.17

Table 2.3-50—{SSES 33' (10-m) 2001-2006 November JFD - continued}

(Page 2 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 1.37**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	0	1	0	0	0	0	3	6	9	28	8	2	0	0	0	0	57
(1)	.00	.00	1.75	.00	.00	.00	.00	5.26	10.53	15.79	49.12	14.04	3.51	.00	.00	.00	.00	100.00
(2)	.00	.00	.02	.00	.00	.00	.00	.07	.14	.22	.67	.19	.05	.00	.00	.00	.00	1.37

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-50—{SSES 33' (10-m) 2001-2006 November JFD - continued}

(Page 1 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 2.70**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.89	.89	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.79
(2)	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
1.1- 1.5	0	0	0	0	1	0	0	2	1	1	0	0	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.89	.00	.00	1.79	.89	.89	.00	.00	.00	.00	.00	.00	.00	4.46
(2)	.00	.00	.00	.00	.02	.00	.00	.05	.02	.02	.00	.00	.00	.00	.00	.00	.00	.12
1.6- 2.0	0	0	1	0	0	0	0	0	1	4	3	0	0	0	0	0	0	9
(1)	.00	.00	.89	.00	.00	.00	.00	.00	.89	3.57	2.68	.00	.00	.00	.00	.00	.00	8.04
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.02	.10	.07	.00	.00	.00	.00	.00	.00	.22
2.1- 3.0	0	2	2	0	0	0	1	0	3	4	10	2	0	1	0	0	0	25
(1)	.00	1.79	1.79	.00	.00	.00	.89	.00	2.68	3.57	8.93	1.79	.00	.89	.00	.00	.00	22.32
(2)	.00	.05	.05	.00	.00	.00	.02	.00	.07	.10	.24	.05	.00	.02	.00	.00	.00	.60
3.1- 4.0	1	0	0	0	0	0	1	5	4	0	11	4	0	0	0	0	0	26
(1)	.89	.00	.00	.00	.00	.00	.89	4.46	3.57	.00	9.82	3.57	.00	.00	.00	.00	.00	23.21
(2)	.02	.00	.00	.00	.00	.00	.02	.12	.10	.00	.26	.10	.00	.00	.00	.00	.00	.63
4.1- 5.0	4	0	0	0	0	0	1	1	0	2	7	7	0	0	1	3	0	26
(1)	3.57	.00	.00	.00	.00	.00	.89	.89	.00	1.79	6.25	6.25	.00	.00	.89	2.68	.00	23.21
(2)	.10	.00	.00	.00	.00	.00	.02	.02	.00	.05	.17	.17	.00	.00	.02	.07	.00	.63
5.1- 6.0	2	0	0	0	0	0	0	0	0	0	6	6	0	0	0	1	0	15
(1)	1.79	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.36	5.36	.00	.00	.00	.89	.00	13.39
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.14	.00	.00	.00	.02	.00	.36

Table 2.3-50—{SSES 33' (10-m) 2001-2006 November JFD - continued}

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SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 2.70**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	1	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.68	.00	.00	.00	.89	.00	.00	3.57
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.02	.00	.00	.10
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	7	2	3	0	1	0	4	9	9	11	40	19	0	1	2	4	0	112
(1)	6.25	1.79	2.68	.00	.89	.00	3.57	8.04	8.04	9.82	35.71	16.96	.00	.89	1.79	3.57	.00	100.00
(2)	.17	.05	.07	.00	.02	.00	.10	.22	.22	.26	.96	.46	.00	.02	.05	.10	.00	2.70

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-50—{SSES 33' (10-m) 2001-2006 November JFD - continued}

(Page 1 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS D — CLASS FREQUENCY (PERCENT) = 40.50

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	2	10	10	5	12	14	11	10	11	5	3	0	0	0	0	1	0	94
(1)	.12	.59	.59	.30	.71	.83	.65	.59	.65	.30	.18	.00	.00	.00	.00	.06	.00	5.59
(2)	.05	.24	.24	.12	.29	.34	.26	.24	.26	.12	.07	.00	.00	.00	.00	.02	.00	2.26
1.1- 1.5	3	13	18	9	10	13	29	19	21	26	7	9	2	6	2	1	0	188
(1)	.18	.77	1.07	.54	.59	.77	1.72	1.13	1.25	1.55	.42	.54	.12	.36	.12	.06	.00	11.18
(2)	.07	.31	.43	.22	.24	.31	.70	.46	.51	.63	.17	.22	.05	.14	.05	.02	.00	4.53
1.6- 2.0	10	18	23	3	3	5	13	13	18	21	18	16	6	4	2	3	0	176
(1)	.59	1.07	1.37	.18	.18	.30	.77	.77	1.07	1.25	1.07	.95	.36	.24	.12	.18	.00	10.46
(2)	.24	.43	.55	.07	.07	.12	.31	.31	.43	.51	.43	.39	.14	.10	.05	.07	.00	4.24
2.1- 3.0	39	51	49	5	6	5	33	27	23	21	43	22	27	23	23	29	0	426
(1)	2.32	3.03	2.91	.30	.36	.30	1.96	1.61	1.37	1.25	2.56	1.31	1.61	1.37	1.37	1.72	.00	25.33
(2)	.94	1.23	1.18	.12	.14	.12	.79	.65	.55	.51	1.04	.53	.65	.55	.55	.70	.00	10.26
3.1- 4.0	38	17	7	0	1	3	26	8	8	20	41	22	18	27	49	41	0	326
(1)	2.26	1.01	.42	.00	.06	.18	1.55	.48	.48	1.19	2.44	1.31	1.07	1.61	2.91	2.44	.00	19.38
(2)	.92	.41	.17	.00	.02	.07	.63	.19	.19	.48	.99	.53	.43	.65	1.18	.99	.00	7.85
4.1- 5.0	24	3	0	0	0	0	13	13	4	4	42	35	14	14	31	39	0	236
(1)	1.43	.18	.00	.00	.00	.00	.77	.77	.24	.24	2.50	2.08	.83	.83	1.84	2.32	.00	14.03
(2)	.58	.07	.00	.00	.00	.00	.31	.31	.10	.10	1.01	.84	.34	.34	.75	.94	.00	5.68
5.1- 6.0	5	0	0	0	0	0	5	9	5	1	16	27	10	7	29	26	0	140
(1)	.30	.00	.00	.00	.00	.00	.30	.54	.30	.06	.95	1.61	.59	.42	1.72	1.55	.00	8.32
(2)	.12	.00	.00	.00	.00	.00	.12	.22	.12	.02	.39	.65	.24	.17	.70	.63	.00	3.37

Table 2.3-50—{SSES 33' (10-m) 2001-2006 November JFD - continued}

(Page 2 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 40.50**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	0	0	0	0	0	1	8	3	0	5	12	7	20	9	7	0	73
(1)	.06	.00	.00	.00	.00	.00	.06	.48	.18	.00	.30	.71	.42	1.19	.54	.42	.00	4.34
(2)	.02	.00	.00	.00	.00	.00	.02	.19	.07	.00	.12	.29	.17	.48	.22	.17	.00	1.76
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	13	4	3	2	0	0	23
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.77	.24	.18	.12	.00	.00	1.37
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.31	.10	.07	.05	.00	.00	.55
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	122	112	107	22	32	40	131	107	93	98	176	156	88	104	147	147	0	1682
(1)	7.25	6.66	6.36	1.31	1.90	2.38	7.79	6.36	5.53	5.83	10.46	9.27	5.23	6.18	8.74	8.74	.00	100.00
(2)	2.94	2.70	2.58	.53	.77	.96	3.15	2.58	2.24	2.36	4.24	3.76	2.12	2.50	3.54	3.54	.00	40.50

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-50—{SSES 33' (10-m) 2001-2006 November JFD - continued}

(Page 1 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 31.09**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	3	5	3	5	3	1	0	0	0	0	0	0	0	0	21
(1)	.00	.00	.08	.23	.39	.23	.39	.23	.08	.00	.00	.00	.00	.00	.00	.00	.00	1.63
(2)	.00	.00	.02	.07	.12	.07	.12	.07	.02	.00	.00	.00	.00	.00	.00	.00	.00	.51
.5- 1.0	7	26	57	75	78	50	51	32	33	21	4	1	4	0	1	1	0	441
(1)	.54	2.01	4.42	5.81	6.04	3.87	3.95	2.48	2.56	1.63	.31	.08	.31	.00	.08	.08	.00	34.16
(2)	.17	.63	1.37	1.81	1.88	1.20	1.23	.77	.79	.51	.10	.02	.10	.00	.02	.02	.00	10.62
1.1- 1.5	14	41	41	29	14	9	17	26	40	28	29	4	1	0	1	3	0	297
(1)	1.08	3.18	3.18	2.25	1.08	.70	1.32	2.01	3.10	2.17	2.25	.31	.08	.00	.08	.23	.00	23.01
(2)	.34	.99	.99	.70	.34	.22	.41	.63	.96	.67	.70	.10	.02	.00	.02	.07	.00	7.15
1.6- 2.0	10	32	15	5	3	3	5	10	26	37	18	14	6	1	3	4	0	192
(1)	.77	2.48	1.16	.39	.23	.23	.39	.77	2.01	2.87	1.39	1.08	.46	.08	.23	.31	.00	14.87
(2)	.24	.77	.36	.12	.07	.07	.12	.24	.63	.89	.43	.34	.14	.02	.07	.10	.00	4.62
2.1- 3.0	19	19	9	0	0	1	4	10	21	39	25	7	4	5	5	13	0	181
(1)	1.47	1.47	.70	.00	.00	.08	.31	.77	1.63	3.02	1.94	.54	.31	.39	.39	1.01	.00	14.02
(2)	.46	.46	.22	.00	.00	.02	.10	.24	.51	.94	.60	.17	.10	.12	.12	.31	.00	4.36
3.1- 4.0	4	5	5	1	0	1	1	5	13	14	16	11	0	1	3	5	0	85
(1)	.31	.39	.39	.08	.00	.08	.08	.39	1.01	1.08	1.24	.85	.00	.08	.23	.39	.00	6.58
(2)	.10	.12	.12	.02	.00	.02	.02	.12	.31	.34	.39	.26	.00	.02	.07	.12	.00	2.05
4.1- 5.0	1	0	0	0	0	0	3	9	9	8	6	2	1	0	1	2	0	42
(1)	.08	.00	.00	.00	.00	.00	.23	.70	.70	.62	.46	.15	.08	.00	.08	.15	.00	3.25
(2)	.02	.00	.00	.00	.00	.00	.07	.22	.22	.19	.14	.05	.02	.00	.02	.05	.00	1.01
5.1- 6.0	0	0	0	0	0	5	2	3	8	2	0	3	0	0	0	0	0	23
(1)	.00	.00	.00	.00	.00	.39	.15	.23	.62	.15	.00	.23	.00	.00	.00	.00	.00	1.78
(2)	.00	.00	.00	.00	.00	.12	.05	.07	.19	.05	.00	.07	.00	.00	.00	.00	.00	.55

Table 2.3-50—{SSES 33' (10-m) 2001-2006 November JFD - continued}

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SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 31.09**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	6	1	0	1	1	0	0	0	0	0	9
(1)	.00	.00	.00	.00	.00	.00	.00	.46	.08	.00	.08	.08	.00	.00	.00	.00	.00	.70
(2)	.00	.00	.00	.00	.00	.00	.00	.14	.02	.00	.02	.02	.00	.00	.00	.00	.00	.22
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	55	123	128	113	100	72	88	104	152	149	99	43	16	7	14	28	0	1291
(1)	4.26	9.53	9.91	8.75	7.75	5.58	6.82	8.06	11.77	11.54	7.67	3.33	1.24	.54	1.08	2.17	.00	100.00
(2)	1.32	2.96	3.08	2.72	2.41	1.73	2.12	2.50	3.66	3.59	2.38	1.04	.39	.17	.34	.67	.00	31.09

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-50—{SSES 33' (10-m) 2001-2006 November JFD - continued}

(Page 1 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 11.27**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	2	3	1	0	0	0	0	0	0	0	0	0	0	0	6
(1)	.00	.00	.00	.43	.64	.21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.28
(2)	.00	.00	.00	.05	.07	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
.5- 1.0	0	13	48	121	62	20	20	10	10	5	1	0	0	0	0	2	0	312
(1)	.00	2.78	10.26	25.85	13.25	4.27	4.27	2.14	2.14	1.07	.21	.00	.00	.00	.00	.43	.00	66.67
(2)	.00	.31	1.16	2.91	1.49	.48	.48	.24	.24	.12	.02	.00	.00	.00	.00	.05	.00	7.51
1.1- 1.5	3	7	23	50	4	2	3	2	13	7	2	0	0	0	0	0	0	116
(1)	.64	1.50	4.91	10.68	.85	.43	.64	.43	2.78	1.50	.43	.00	.00	.00	.00	.00	.00	24.79
(2)	.07	.17	.55	1.20	.10	.05	.07	.05	.31	.17	.05	.00	.00	.00	.00	.00	.00	2.79
1.6- 2.0	0	4	9	4	0	0	0	0	2	4	0	1	0	0	0	0	0	24
(1)	.00	.85	1.92	.85	.00	.00	.00	.00	.43	.85	.00	.21	.00	.00	.00	.00	.00	5.13
(2)	.00	.10	.22	.10	.00	.00	.00	.00	.05	.10	.00	.02	.00	.00	.00	.00	.00	.58
2.1- 3.0	0	1	0	0	0	0	0	0	0	1	5	2	0	0	0	0	0	9
(1)	.00	.21	.00	.00	.00	.00	.00	.00	.00	.21	1.07	.43	.00	.00	.00	.00	.00	1.92
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02	.12	.05	.00	.00	.00	.00	.00	.22
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.21	.00	.21
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-50—{SSES 33' (10-m) 2001-2006 November JFD - continued}

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SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 11.27**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	3	25	80	177	69	23	23	12	25	17	8	3	0	0	0	3	0	468
(1)	.64	5.34	17.09	37.82	14.74	4.91	4.91	2.56	5.34	3.63	1.71	.64	.00	.00	.00	.64	.00	100.00
(2)	.07	.60	1.93	4.26	1.66	.55	.55	.29	.60	.41	.19	.07	.00	.00	.00	.07	.00	11.27

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-50—{SSES 33' (10-m) 2001-2006 November JFD - continued}

(Page 1 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 12.21**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20
(2)	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	2	3	55	187	47	18	10	2	4	1	3	0	0	0	0	2	0	334
(1)	.39	.59	10.85	36.88	9.27	3.55	1.97	.39	.79	.20	.59	.00	.00	.00	.00	.39	.00	65.88
(2)	.05	.07	1.32	4.50	1.13	.43	.24	.05	.10	.02	.07	.00	.00	.00	.00	.05	.00	8.04
1.1- 1.5	0	0	24	116	5	1	1	1	1	1	1	0	0	0	0	0	0	151
(1)	.00	.00	4.73	22.88	.99	.20	.20	.20	.20	.20	.20	.00	.00	.00	.00	.00	.00	29.78
(2)	.00	.00	.58	2.79	.12	.02	.02	.02	.02	.02	.02	.00	.00	.00	.00	.00	.00	3.64
1.6- 2.0	1	1	6	13	0	0	0	0	0	0	0	0	0	0	0	0	0	21
(1)	.20	.20	1.18	2.56	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.14
(2)	.02	.02	.14	.31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.51
2.1- 3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-50—{SSES 33' (10-m) 2001-2006 November JFD - continued}

(Page 2 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 12.21**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	3	4	85	316	52	20	11	3	5	2	4	0	0	0	0	2	0	507
(1)	.59	.79	16.77	62.33	10.26	3.94	2.17	.59	.99	.39	.79	.00	.00	.00	.00	.39	.00	100.00
(2)	.07	.10	2.05	7.61	1.25	.48	.26	.07	.12	.05	.10	.00	.00	.00	.00	.05	.00	12.21

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-50—{SSES 33' (10-m) 2001-2006 November JFD - continued}

(Page 1 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS ALL — CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	5	8	5	5	3	1	0	0	0	0	0	0	0	0	28
(1)	.00	.00	.02	.12	.19	.12	.12	.07	.02	.00	.00	.00	.00	.00	.00	.00	.00	.67
(2)	.00	.00	.02	.12	.19	.12	.12	.07	.02	.00	.00	.00	.00	.00	.00	.00	.00	.67
.5- 1.0	11	52	170	388	199	102	93	55	58	32	11	1	4	0	1	6	0	1183
(1)	.26	1.25	4.09	9.34	4.79	2.46	2.24	1.32	1.40	.77	.26	.02	.10	.00	.02	.14	.00	28.49
(2)	.26	1.25	4.09	9.34	4.79	2.46	2.24	1.32	1.40	.77	.26	.02	.10	.00	.02	.14	.00	28.49
1.1- 1.5	20	61	106	204	34	25	50	50	77	64	39	13	3	6	3	4	0	759
(1)	.48	1.47	2.55	4.91	.82	.60	1.20	1.20	1.85	1.54	.94	.31	.07	.14	.07	.10	.00	18.28
(2)	.48	1.47	2.55	4.91	.82	.60	1.20	1.20	1.85	1.54	.94	.31	.07	.14	.07	.10	.00	18.28
1.6- 2.0	21	55	54	25	6	8	18	24	51	69	40	32	12	5	5	7	0	432
(1)	.51	1.32	1.30	.60	.14	.19	.43	.58	1.23	1.66	.96	.77	.29	.12	.12	.17	.00	10.40
(2)	.51	1.32	1.30	.60	.14	.19	.43	.58	1.23	1.66	.96	.77	.29	.12	.12	.17	.00	10.40
2.1- 3.0	59	73	61	5	6	6	38	38	53	71	96	33	31	29	28	42	0	669
(1)	1.42	1.76	1.47	.12	.14	.14	.92	.92	1.28	1.71	2.31	.79	.75	.70	.67	1.01	.00	16.11
(2)	1.42	1.76	1.47	.12	.14	.14	.92	.92	1.28	1.71	2.31	.79	.75	.70	.67	1.01	.00	16.11
3.1- 4.0	43	22	12	1	1	4	28	18	28	37	83	41	19	28	52	49	0	466
(1)	1.04	.53	.29	.02	.02	.10	.67	.43	.67	.89	2.00	.99	.46	.67	1.25	1.18	.00	11.22
(2)	1.04	.53	.29	.02	.02	.10	.67	.43	.67	.89	2.00	.99	.46	.67	1.25	1.18	.00	11.22
4.1- 5.0	29	3	0	0	0	0	17	24	17	16	62	47	16	14	33	44	0	322
(1)	.70	.07	.00	.00	.00	.00	.41	.58	.41	.39	1.49	1.13	.39	.34	.79	1.06	.00	7.75
(2)	.70	.07	.00	.00	.00	.00	.41	.58	.41	.39	1.49	1.13	.39	.34	.79	1.06	.00	7.75
5.1- 6.0	7	0	0	0	0	5	7	12	13	3	29	36	10	7	29	27	0	185
(1)	.17	.00	.00	.00	.00	.12	.17	.29	.31	.07	.70	.87	.24	.17	.70	.65	.00	4.45
(2)	.17	.00	.00	.00	.00	.12	.17	.29	.31	.07	.70	.87	.24	.17	.70	.65	.00	4.45

Table 2.3-50—{SSES 33' (10-m) 2001-2006 November JFD - continued}

(Page 2 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	0	0	0	0	0	1	14	4	0	9	13	7	20	10	7	0	86
(1)	.02	.00	.00	.00	.00	.00	.02	.34	.10	.00	.22	.31	.17	.48	.24	.17	.00	2.07
(2)	.02	.00	.00	.00	.00	.00	.02	.34	.10	.00	.22	.31	.17	.48	.24	.17	.00	2.07
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	13	4	3	2	0	0	23
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.31	.10	.07	.05	.00	.00	.55
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.31	.10	.07	.05	.00	.00	.55
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	191	266	404	628	254	155	257	238	302	292	370	229	106	112	163	186	0	4153
(1)	4.60	6.41	9.73	15.12	6.12	3.73	6.19	5.73	7.27	7.03	8.91	5.51	2.55	2.70	3.92	4.48	.00	100.00
(2)	4.60	6.41	9.73	15.12	6.12	3.73	6.19	5.73	7.27	7.03	8.91	5.51	2.55	2.70	3.92	4.48	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-51 {SSES 33' (10-m) 2001-2006 December JFD}

(Page 1 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS A — CLASS FREQUENCY (PERCENT) = .78

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.1- 1.5	0	0	0	0	0	0	1	1	0	1	2	0	0	1	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	2.86	2.86	.00	2.86	5.71	.00	.00	2.86	.00	.00	.00	17.14
(2)	.00	.00	.00	.00	.00	.00	.02	.02	.00	.02	.04	.00	.00	.02	.00	.00	.00	.13
1.6- 2.0	0	0	0	0	1	0	0	0	2	0	4	0	0	0	0	0	0	7
(1)	.00	.00	.00	.00	2.86	.00	.00	.00	5.71	.00	11.43	.00	.00	.00	.00	.00	.00	20.00
(2)	.00	.00	.00	.00	.02	.00	.00	.00	.04	.00	.09	.00	.00	.00	.00	.00	.00	.16
2.1- 3.0	0	0	0	0	0	0	1	1	1	4	4	0	1	0	0	0	0	12
(1)	.00	.00	.00	.00	.00	.00	2.86	2.86	2.86	11.43	11.43	.00	2.86	.00	.00	.00	.00	34.29
(2)	.00	.00	.00	.00	.00	.00	.02	.02	.02	.09	.09	.00	.02	.00	.00	.00	.00	.27
3.1- 4.0	0	0	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.86	14.29	.00	.00	.00	.00	.00	.00	17.14
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.11	.00	.00	.00	.00	.00	.00	.13
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	8.57	.00	.00	.00	.00	.00	.00	8.57
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00	.07
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-51 {SSES 33' (10-m) 2001-2006 December JFD}

(Page 2 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = .78**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.86	.00	.00	.00	.00	.00	.00	2.86
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	0	0	0	1	0	2	2	3	6	19	0	1	1	0	0	0	35
(1)	.00	.00	.00	.00	2.86	.00	5.71	5.71	8.57	17.14	54.29	.00	2.86	2.86	.00	.00	.00	100.00
(2)	.00	.00	.00	.00	.02	.00	.04	.04	.07	.13	.43	.00	.02	.02	.00	.00	.00	.78

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-51—{SSES 33' (10-m) 2001-2006 December JFD - continued}

(Page 1 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = .76**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.94	.00	.00	.00	.00	.00	.00	.00	2.94
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02
1.1- 1.5	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	5.88	2.94	.00	.00	.00	.00	.00	.00	.00	8.82
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.04	.02	.00	.00	.00	.00	.00	.00	.00	.07
1.6- 2.0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.88	2.94	.00	.00	.00	.00	.00	.00	8.82
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.02	.00	.00	.00	.00	.00	.00	.07
2.1- 3.0	0	0	1	0	0	0	0	0	0	5	4	2	0	0	0	0	0	12
(1)	.00	.00	2.94	.00	.00	.00	.00	.00	.00	14.71	11.76	5.88	.00	.00	.00	.00	.00	35.29
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.11	.09	.04	.00	.00	.00	.00	.00	.27
3.1- 4.0	0	0	0	0	0	0	0	0	0	3	7	1	0	0	0	1	0	12
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	8.82	20.59	2.94	.00	.00	.00	2.94	.00	35.29
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.16	.02	.00	.00	.00	.02	.00	.27
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.88	.00	.00	.00	.00	.00	.00	5.88
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00	.00	.00	.04
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.94	.00	.00	.00	.00	.00	2.94
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02

Table 2.3-51—{SSES 33' (10-m) 2001-2006 December JFD - continued}

(Page 2 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = .76**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	0	1	0	0	0	0	0	2	12	14	4	0	0	0	1	0	34
(1)	.00	.00	2.94	.00	.00	.00	.00	.00	5.88	35.29	41.18	11.76	.00	.00	.00	2.94	.00	100.00
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.04	.27	.31	.09	.00	.00	.00	.02	.00	.76

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-51—{SSES 33' (10-m) 2001-2006 December JFD - continued}
(Page 1 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 2.04**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	1	0	0	2	1	0	1	0	0	0	0	0	0	5
(1)	.00	.00	.00	.00	1.10	.00	.00	2.20	1.10	.00	1.10	.00	.00	.00	.00	.00	.00	5.49
(2)	.00	.00	.00	.00	.02	.00	.00	.04	.02	.00	.02	.00	.00	.00	.00	.00	.00	.11
1.1- 1.5	0	0	0	0	0	2	0	0	1	1	0	1	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	2.20	.00	.00	1.10	1.10	.00	1.10	.00	.00	.00	.00	.00	5.49
(2)	.00	.00	.00	.00	.00	.04	.00	.00	.02	.02	.00	.02	.00	.00	.00	.00	.00	.11
1.6- 2.0	0	0	3	0	0	0	0	2	2	3	1	1	0	0	0	0	0	12
(1)	.00	.00	3.30	.00	.00	.00	.00	2.20	2.20	3.30	1.10	1.10	.00	.00	.00	.00	.00	13.19
(2)	.00	.00	.07	.00	.00	.00	.00	.04	.04	.07	.02	.02	.00	.00	.00	.00	.00	.27
2.1- 3.0	1	2	2	0	0	0	0	0	2	2	7	1	0	0	0	0	0	17
(1)	1.10	2.20	2.20	.00	.00	.00	.00	.00	2.20	2.20	7.69	1.10	.00	.00	.00	.00	.00	18.68
(2)	.02	.04	.04	.00	.00	.00	.00	.00	.04	.04	.16	.02	.00	.00	.00	.00	.00	.38
3.1- 4.0	1	0	1	0	0	0	1	0	1	3	9	3	0	1	0	2	0	22
(1)	1.10	.00	1.10	.00	.00	.00	1.10	.00	1.10	3.30	9.89	3.30	.00	1.10	.00	2.20	.00	24.18
(2)	.02	.00	.02	.00	.00	.00	.02	.00	.02	.07	.20	.07	.00	.02	.00	.04	.00	.49
4.1- 5.0	2	0	0	0	0	0	0	0	1	1	9	3	0	0	0	3	0	19
(1)	2.20	.00	.00	.00	.00	.00	.00	.00	1.10	1.10	9.89	3.30	.00	.00	.00	3.30	.00	20.88
(2)	.04	.00	.00	.00	.00	.00	.00	.00	.02	.02	.20	.07	.00	.00	.00	.07	.00	.43
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	3	6	0	0	0	0	0	9
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.30	6.59	.00	.00	.00	.00	.00	9.89
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.13	.00	.00	.00	.00	.00	.20

Table 2.3-51—{SSES 33' (10-m) 2001-2006 December JFD - continued}

(Page 2 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 2.04**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.10	1.10	.00	.00	.00	.00	.00	2.20
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.04
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	4	2	6	0	1	2	1	4	8	10	31	16	0	1	0	5	0	91
(1)	4.40	2.20	6.59	.00	1.10	2.20	1.10	4.40	8.79	10.99	34.07	17.58	.00	1.10	.00	5.49	.00	100.00
(2)	.09	.04	.13	.00	.02	.04	.02	.09	.18	.22	.69	.36	.00	.02	.00	.11	.00	2.04

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-51—{SSES 33' (10-m) 2001-2006 December JFD - continued}

(Page 1 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 45.99**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.05	.05	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15
(2)	.00	.00	.02	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
.5- 1.0	1	7	2	9	23	28	15	13	7	5	0	2	1	0	3	1	0	117
(1)	.05	.34	.10	.44	1.12	1.36	.73	.63	.34	.24	.00	.10	.05	.00	.15	.05	.00	5.70
(2)	.02	.16	.04	.20	.52	.63	.34	.29	.16	.11	.00	.04	.02	.00	.07	.02	.00	2.62
1.1- 1.5	8	17	14	16	13	14	26	17	26	20	13	8	8	4	3	4	0	211
(1)	.39	.83	.68	.78	.63	.68	1.27	.83	1.27	.97	.63	.39	.39	.19	.15	.19	.00	10.28
(2)	.18	.38	.31	.36	.29	.31	.58	.38	.58	.45	.29	.18	.18	.09	.07	.09	.00	4.73
1.6- 2.0	10	17	19	15	7	6	13	13	23	30	14	8	11	4	5	6	0	201
(1)	.49	.83	.93	.73	.34	.29	.63	.63	1.12	1.46	.68	.39	.54	.19	.24	.29	.00	9.79
(2)	.22	.38	.43	.34	.16	.13	.29	.29	.52	.67	.31	.18	.25	.09	.11	.13	.00	4.50
2.1- 3.0	39	29	29	7	5	5	21	13	33	60	64	32	27	10	19	26	0	419
(1)	1.90	1.41	1.41	.34	.24	.24	1.02	.63	1.61	2.92	3.12	1.56	1.32	.49	.93	1.27	.00	20.41
(2)	.87	.65	.65	.16	.11	.11	.47	.29	.74	1.34	1.43	.72	.60	.22	.43	.58	.00	9.39
3.1- 4.0	32	14	7	7	1	2	5	3	4	25	107	35	39	23	52	57	0	413
(1)	1.56	.68	.34	.34	.05	.10	.24	.15	.19	1.22	5.21	1.70	1.90	1.12	2.53	2.78	.00	20.12
(2)	.72	.31	.16	.16	.02	.04	.11	.07	.09	.56	2.40	.78	.87	.52	1.16	1.28	.00	9.25
4.1- 5.0	17	5	2	0	1	1	1	0	3	4	84	66	34	37	52	62	0	369
(1)	.83	.24	.10	.00	.05	.05	.05	.00	.15	.19	4.09	3.21	1.66	1.80	2.53	3.02	.00	17.97
(2)	.38	.11	.04	.00	.02	.02	.02	.00	.07	.09	1.88	1.48	.76	.83	1.16	1.39	.00	8.27
5.1- 6.0	3	0	0	0	0	0	1	0	2	1	42	59	22	10	39	49	0	228
(1)	.15	.00	.00	.00	.00	.00	.05	.00	.10	.05	2.05	2.87	1.07	.49	1.90	2.39	.00	11.11
(2)	.07	.00	.00	.00	.00	.00	.02	.00	.04	.02	.94	1.32	.49	.22	.87	1.10	.00	5.11

Table 2.3-51—{SSES 33' (10-m) 2001-2006 December JFD - continued}

(Page 2 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 45.99**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	1	0	13	37	7	5	15	5	0	83
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.63	1.80	.34	.24	.73	.24	.00	4.04
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.29	.83	.16	.11	.34	.11	.00	1.86
8.1-10.0	0	0	0	0	0	0	0	0	2	0	0	7	0	0	0	0	0	9
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.34	.00	.00	.00	.00	.00	.44
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.16	.00	.00	.00	.00	.00	.20
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	110	89	74	55	51	56	82	59	101	145	337	254	149	93	188	210	0	2053
(1)	5.36	4.34	3.60	2.68	2.48	2.73	3.99	2.87	4.92	7.06	16.42	12.37	7.26	4.53	9.16	10.23	.00	100.00
(2)	2.46	1.99	1.66	1.23	1.14	1.25	1.84	1.32	2.26	3.25	7.55	5.69	3.34	2.08	4.21	4.70	.00	45.99

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-51—{SSES 33' (10-m) 2001-2006 December JFD - continued}

(Page 1 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 30.58**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	3	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	8
(1)	.00	.22	.00	.07	.07	.15	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.59
(2)	.00	.07	.00	.02	.02	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18
.5- 1.0	5	11	41	73	68	51	71	45	41	15	13	5	3	1	0	2	0	445
(1)	.37	.81	3.00	5.35	4.98	3.74	5.20	3.30	3.00	1.10	.95	.37	.22	.07	.00	.15	.00	32.60
(2)	.11	.25	.92	1.64	1.52	1.14	1.59	1.01	.92	.34	.29	.11	.07	.02	.00	.04	.00	9.97
1.1- 1.5	9	30	40	30	12	14	16	26	33	40	22	3	5	3	1	2	0	286
(1)	.66	2.20	2.93	2.20	.88	1.03	1.17	1.90	2.42	2.93	1.61	.22	.37	.22	.07	.15	.00	20.95
(2)	.20	.67	.90	.67	.27	.31	.36	.58	.74	.90	.49	.07	.11	.07	.02	.04	.00	6.41
1.6- 2.0	12	21	14	4	2	2	5	20	25	45	18	13	1	2	3	0	0	187
(1)	.88	1.54	1.03	.29	.15	.15	.37	1.47	1.83	3.30	1.32	.95	.07	.15	.22	.00	.00	13.70
(2)	.27	.47	.31	.09	.04	.04	.11	.45	.56	1.01	.40	.29	.02	.04	.07	.00	.00	4.19
2.1- 3.0	20	33	14	3	0	1	4	7	21	61	48	16	9	4	10	13	0	264
(1)	1.47	2.42	1.03	.22	.00	.07	.29	.51	1.54	4.47	3.52	1.17	.66	.29	.73	.95	.00	19.34
(2)	.45	.74	.31	.07	.00	.02	.09	.16	.47	1.37	1.08	.36	.20	.09	.22	.29	.00	5.91
3.1- 4.0	6	16	6	1	3	3	2	4	6	6	33	4	3	6	4	10	0	113
(1)	.44	1.17	.44	.07	.22	.22	.15	.29	.44	.44	2.42	.29	.22	.44	.29	.73	.00	8.28
(2)	.13	.36	.13	.02	.07	.07	.04	.09	.13	.13	.74	.09	.07	.13	.09	.22	.00	2.53
4.1- 5.0	3	0	0	0	1	2	2	2	1	0	10	4	0	0	5	4	0	34
(1)	.22	.00	.00	.00	.07	.15	.15	.15	.07	.00	.73	.29	.00	.00	.37	.29	.00	2.49
(2)	.07	.00	.00	.00	.02	.04	.04	.04	.02	.00	.22	.09	.00	.00	.11	.09	.00	.76
5.1- 6.0	0	0	0	0	1	3	2	3	0	0	2	2	1	0	1	1	0	16
(1)	.00	.00	.00	.00	.07	.22	.15	.22	.00	.00	.15	.15	.07	.00	.07	.07	.00	1.17
(2)	.00	.00	.00	.00	.02	.07	.04	.07	.00	.00	.04	.04	.02	.00	.02	.02	.00	.36

Table 2.3-51—{SSES 33' (10-m) 2001-2006 December JFD - continued}

(Page 2 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 30.58**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	2	0	1	1	2	1	0	3	0	0	0	0	0	10
(1)	.00	.00	.00	.00	.15	.00	.07	.07	.15	.07	.00	.22	.00	.00	.00	.00	.00	.73
(2)	.00	.00	.00	.00	.04	.00	.02	.02	.04	.02	.00	.07	.00	.00	.00	.00	.00	.22
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.07
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.07
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
ALL SPEEDS	55	114	115	112	90	78	104	108	129	168	146	52	22	16	24	32	0	1365
(1)	4.03	8.35	8.42	8.21	6.59	5.71	7.62	7.91	9.45	12.31	10.70	3.81	1.61	1.17	1.76	2.34	.00	100.00
(2)	1.23	2.55	2.58	2.51	2.02	1.75	2.33	2.42	2.89	3.76	3.27	1.16	.49	.36	.54	.72	.00	30.58

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-51—{SSES 33' (10-m) 2001-2006 December JFD - continued}

(Page 1 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA — STABILITY CLASS F — CLASS FREQUENCY (PERCENT) = 11.67

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	0	4	0	1	0	0	0	0	0	0	0	0	0	0	6
(1)	.00	.00	.19	.00	.77	.00	.19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.15
(2)	.00	.00	.02	.00	.09	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13
.5- 1.0	3	9	46	110	68	35	16	28	22	3	1	0	1	0	0	1	0	343
(1)	.58	1.73	8.83	21.11	13.05	6.72	3.07	5.37	4.22	.58	.19	.00	.19	.00	.00	.19	.00	65.83
(2)	.07	.20	1.03	2.46	1.52	.78	.36	.63	.49	.07	.02	.00	.02	.00	.00	.02	.00	7.68
1.1- 1.5	2	9	21	48	8	6	4	6	19	8	1	1	0	1	0	2	0	136
(1)	.38	1.73	4.03	9.21	1.54	1.15	.77	1.15	3.65	1.54	.19	.19	.00	.19	.00	.38	.00	26.10
(2)	.04	.20	.47	1.08	.18	.13	.09	.13	.43	.18	.02	.02	.00	.02	.00	.04	.00	3.05
1.6- 2.0	2	2	4	1	0	0	1	2	2	10	2	0	0	0	0	1	0	27
(1)	.38	.38	.77	.19	.00	.00	.19	.38	.38	1.92	.38	.00	.00	.00	.00	.19	.00	5.18
(2)	.04	.04	.09	.02	.00	.00	.02	.04	.04	.22	.04	.00	.00	.00	.00	.02	.00	.60
2.1- 3.0	0	0	0	0	0	0	0	0	0	3	5	0	0	0	1	0	0	9
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.58	.96	.00	.00	.00	.19	.00	.00	1.73
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.11	.00	.00	.00	.02	.00	.00	.20
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-51—{SSES 33' (10-m) 2001-2006 December JFD - continued}

(Page 2 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 11.67**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	7	20	72	159	80	41	22	36	43	24	9	1	1	1	1	4	0	521
(1)	1.34	3.84	13.82	30.52	15.36	7.87	4.22	6.91	8.25	4.61	1.73	.19	.19	.19	.19	.77	.00	100.00
(2)	.16	.45	1.61	3.56	1.79	.92	.49	.81	.96	.54	.20	.02	.02	.02	.02	.09	.00	11.67

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-51—{SSES 33' (10-m) 2001-2006 December JFD - continued}

(Page 1 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 8.18**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.00	.55	.27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.82
(2)	.00	.00	.00	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
.5- 1.0	0	5	37	112	43	17	9	12	5	2	1	0	0	0	0	0	0	243
(1)	.00	1.37	10.14	30.68	11.78	4.66	2.47	3.29	1.37	.55	.27	.00	.00	.00	.00	.00	.00	66.58
(2)	.00	.11	.83	2.51	.96	.38	.20	.27	.11	.04	.02	.00	.00	.00	.00	.00	.00	5.44
1.1- 1.5	1	2	26	68	7	1	1	2	3	0	1	0	0	0	0	0	0	112
(1)	.27	.55	7.12	18.63	1.92	.27	.27	.55	.82	.00	.27	.00	.00	.00	.00	.00	.00	30.68
(2)	.02	.04	.58	1.52	.16	.02	.02	.04	.07	.00	.02	.00	.00	.00	.00	.00	.00	2.51
1.6- 2.0	0	0	2	2	0	1	0	1	0	0	0	0	0	0	0	0	0	6
(1)	.00	.00	.55	.55	.00	.27	.00	.27	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.64
(2)	.00	.00	.04	.04	.00	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13
2.1- 3.0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.27
(2)	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-51—{SSES 33' (10-m) 2001-2006 December JFD - continued}

(Page 2 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 8.18**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	1	7	65	184	51	19	11	15	8	2	2	0	0	0	0	0	0	365
(1)	.27	1.92	17.81	50.41	13.97	5.21	3.01	4.11	2.19	.55	.55	.00	.00	.00	.00	.00	.00	100.00
(2)	.02	.16	1.46	4.12	1.14	.43	.25	.34	.18	.04	.04	.00	.00	.00	.00	.00	.00	8.18

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-51—{SSES 33' (10-m) 2001-2006 December JFD - continued}

(Page 1 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	3	2	4	7	2	2	0	0	0	0	0	0	0	0	0	0	20
(1)	.00	.07	.04	.09	.16	.04	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.45
(2)	.00	.07	.04	.09	.16	.04	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.45
.5- 1.0	9	32	126	304	203	131	111	100	76	26	16	7	5	1	3	4	0	1154
(1)	.20	.72	2.82	6.81	4.55	2.93	2.49	2.24	1.70	.58	.36	.16	.11	.02	.07	.09	.00	25.85
(2)	.20	.72	2.82	6.81	4.55	2.93	2.49	2.24	1.70	.58	.36	.16	.11	.02	.07	.09	.00	25.85
1.1- 1.5	20	58	101	162	40	37	48	52	84	71	39	13	13	9	4	8	0	759
(1)	.45	1.30	2.26	3.63	.90	.83	1.08	1.16	1.88	1.59	.87	.29	.29	.20	.09	.18	.00	17.00
(2)	.45	1.30	2.26	3.63	.90	.83	1.08	1.16	1.88	1.59	.87	.29	.29	.20	.09	.18	.00	17.00
1.6- 2.0	24	40	42	22	10	9	19	38	54	90	40	22	12	6	8	7	0	443
(1)	.54	.90	.94	.49	.22	.20	.43	.85	1.21	2.02	.90	.49	.27	.13	.18	.16	.00	9.92
(2)	.54	.90	.94	.49	.22	.20	.43	.85	1.21	2.02	.90	.49	.27	.13	.18	.16	.00	9.92
2.1- 3.0	60	64	46	10	5	6	27	21	57	135	132	51	37	14	30	39	0	734
(1)	1.34	1.43	1.03	.22	.11	.13	.60	.47	1.28	3.02	2.96	1.14	.83	.31	.67	.87	.00	16.44
(2)	1.34	1.43	1.03	.22	.11	.13	.60	.47	1.28	3.02	2.96	1.14	.83	.31	.67	.87	.00	16.44
3.1- 4.0	39	30	14	8	4	5	8	7	11	38	161	43	42	30	56	70	0	566
(1)	.87	.67	.31	.18	.09	.11	.18	.16	.25	.85	3.61	.96	.94	.67	1.25	1.57	.00	12.68
(2)	.87	.67	.31	.18	.09	.11	.18	.16	.25	.85	3.61	.96	.94	.67	1.25	1.57	.00	12.68
4.1- 5.0	22	5	2	0	2	3	3	2	5	5	108	73	34	37	57	69	0	427
(1)	.49	.11	.04	.00	.04	.07	.07	.04	.11	.11	2.42	1.64	.76	.83	1.28	1.55	.00	9.57
(2)	.49	.11	.04	.00	.04	.07	.07	.04	.11	.11	2.42	1.64	.76	.83	1.28	1.55	.00	9.57
5.1- 6.0	3	0	0	0	1	3	3	3	2	1	47	68	23	10	40	50	0	254
(1)	.07	.00	.00	.00	.02	.07	.07	.07	.04	.02	1.05	1.52	.52	.22	.90	1.12	.00	5.69
(2)	.07	.00	.00	.00	.02	.07	.07	.07	.04	.02	1.05	1.52	.52	.22	.90	1.12	.00	5.69

Table 2.3-51—{SSES 33' (10-m) 2001-2006 December JFD - continued}

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SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	2	0	1	1	3	1	15	41	7	5	15	5	0	96
(1)	.00	.00	.00	.00	.04	.00	.02	.02	.07	.02	.34	.92	.16	.11	.34	.11	.00	2.15
(2)	.00	.00	.00	.00	.04	.00	.02	.02	.07	.02	.34	.92	.16	.11	.34	.11	.00	2.15
8.1-10.0	0	0	0	0	0	0	0	0	2	0	0	8	0	0	0	0	0	10
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.18	.00	.00	.00	.00	.00	.22
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.18	.00	.00	.00	.00	.00	.22
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
ALL SPEEDS	177	232	333	510	274	196	222	224	294	367	558	327	173	112	213	252	0	4464
(1)	3.97	5.20	7.46	11.42	6.14	4.39	4.97	5.02	6.59	8.22	12.50	7.33	3.88	2.51	4.77	5.65	.00	100.00
(2)	3.97	5.20	7.46	11.42	6.14	4.39	4.97	5.02	6.59	8.22	12.50	7.33	3.88	2.51	4.77	5.65	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-52 {SSES 197' (60-m) 2001-2006 January JFD}

(Page 1 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 1.84**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.1- 1.5	0	0	1	1	1	0	1	1	1	0	0	1	0	0	0	0	0	7
(1)	.00	.00	1.22	1.22	1.22	.00	1.22	1.22	1.22	.00	.00	1.22	.00	.00	.00	.00	.00	8.54
(2)	.00	.00	.02	.02	.02	.00	.02	.02	.02	.00	.00	.02	.00	.00	.00	.00	.00	.16
1.6- 2.0	0	0	0	0	0	0	0	0	1	3	1	0	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	1.22	3.66	1.22	.00	.00	.00	.00	.00	.00	6.10
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.07	.02	.00	.00	.00	.00	.00	.00	.11
2.1- 3.0	0	0	0	0	0	0	0	1	1	4	7	1	0	0	0	0	0	14
(1)	.00	.00	.00	.00	.00	.00	.00	1.22	1.22	4.88	8.54	1.22	.00	.00	.00	.00	.00	17.07
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.02	.09	.16	.02	.00	.00	.00	.00	.00	.31
3.1- 4.0	0	0	0	0	0	0	0	0	0	5	6	1	0	0	0	0	0	12
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.10	7.32	1.22	.00	.00	.00	.00	.00	14.63
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.13	.02	.00	.00	.00	.00	.00	.27
4.1- 5.0	0	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.44	2.44	1.22	.00	.00	.00	.00	.00	6.10
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.04	.02	.00	.00	.00	.00	.00	.11
5.1- 6.0	0	0	0	0	0	0	0	0	0	1	14	3	1	0	0	0	0	19
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.22	17.07	3.66	1.22	.00	.00	.00	.00	23.17
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.31	.07	.02	.00	.00	.00	.00	.43

Table 2.3-52 {SSES 197' (60-m) 2001-2006 January JFD}

(Page 2 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 1.84**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	4	10	2	0	0	0	0	16
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.88	12.20	2.44	.00	.00	.00	.00	19.51
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.22	.04	.00	.00	.00	.00	.36
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.88	.00	.00	.00	.00	.00	4.88
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.09
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	0	1	1	1	0	1	2	3	15	34	21	3	0	0	0	0	82
(1)	.00	.00	1.22	1.22	1.22	.00	1.22	2.44	3.66	18.29	41.46	25.61	3.66	.00	.00	.00	.00	100.00
(2)	.00	.00	.02	.02	.02	.00	.02	.04	.07	.34	.76	.47	.07	.00	.00	.00	.00	1.84

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-52—{SSES 197' (60-m) 2001-2006 January JFD - continued}

(Page 1 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 1.66**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.35	.00	1.35
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02
1.1- 1.5	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	1.35	.00	.00	1.35	.00	1.35	.00	.00	.00	.00	.00	.00	.00	4.05
(2)	.00	.00	.00	.00	.02	.00	.00	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.07
1.6- 2.0	0	0	0	0	0	1	0	1	1	0	1	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	1.35	.00	1.35	1.35	.00	1.35	.00	.00	.00	.00	.00	.00	5.41
(2)	.00	.00	.00	.00	.00	.02	.00	.02	.02	.00	.02	.00	.00	.00	.00	.00	.00	.09
2.1- 3.0	0	0	2	0	0	0	0	0	0	2	4	2	0	1	0	0	0	11
(1)	.00	.00	2.70	.00	.00	.00	.00	.00	.00	2.70	5.41	2.70	.00	1.35	.00	.00	.00	14.86
(2)	.00	.00	.04	.00	.00	.00	.00	.00	.00	.04	.09	.04	.00	.02	.00	.00	.00	.25
3.1- 4.0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.35	1.35	1.35	1.35	.00	1.35	.00	.00	6.76
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.02	.02	.00	.02	.00	.00	.11
4.1- 5.0	1	0	1	0	0	0	0	0	0	0	3	0	3	0	0	0	0	8
(1)	1.35	.00	1.35	.00	.00	.00	.00	.00	.00	.00	4.05	.00	4.05	.00	.00	.00	.00	10.81
(2)	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.07	.00	.07	.00	.00	.00	.00	.18
5.1- 6.0	1	6	1	0	0	0	0	0	0	0	5	2	3	1	0	0	0	19
(1)	1.35	8.11	1.35	.00	.00	.00	.00	.00	.00	.00	6.76	2.70	4.05	1.35	.00	.00	.00	25.68
(2)	.02	.13	.02	.00	.00	.00	.00	.00	.00	.00	.11	.04	.07	.02	.00	.00	.00	.43

Table 2.3-52—{SSES 197' (60-m) 2001-2006 January JFD - continued}

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SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 1.66**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	2	0	0	0	0	0	0	0	0	2	17	1	0	0	0	0	22
(1)	.00	2.70	.00	.00	.00	.00	.00	.00	.00	.00	2.70	22.97	1.35	.00	.00	.00	.00	29.73
(2)	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00	.04	.38	.02	.00	.00	.00	.00	.49
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.35	.00	.00	.00	.00	1.35
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	2	8	4	0	1	1	0	2	1	4	16	22	9	2	1	1	0	74
(1)	2.70	10.81	5.41	.00	1.35	1.35	.00	2.70	1.35	5.41	21.62	29.73	12.16	2.70	1.35	1.35	.00	100.00
(2)	.04	.18	.09	.00	.02	.02	.00	.04	.02	.09	.36	.49	.20	.04	.02	.02	.00	1.66

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-52—{SSES 197' (60-m) 2001-2006 January JFD - continued}

(Page 1 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS C — CLASS FREQUENCY (PERCENT) = 2.49

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	4
(1)	.00	.90	.00	.00	.90	.90	.90	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.60
(2)	.00	.02	.00	.00	.02	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
1.1- 1.5	0	0	0	0	0	1	0	0	2	4	1	0	0	0	0	0	0	8
(1)	.00	.00	.00	.00	.00	.90	.00	.00	1.80	3.60	.90	.00	.00	.00	.00	.00	.00	7.21
(2)	.00	.00	.00	.00	.00	.02	.00	.00	.04	.09	.02	.00	.00	.00	.00	.00	.00	.18
1.6- 2.0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.90	.00	.00	.00	.00	.00	.90	.00	.00	.00	.00	.00	.00	1.80
(2)	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.04
2.1- 3.0	0	1	1	0	0	0	0	0	2	4	4	1	0	1	0	2	0	16
(1)	.00	.90	.90	.00	.00	.00	.00	.00	1.80	3.60	3.60	.90	.00	.90	.00	1.80	.00	14.41
(2)	.00	.02	.02	.00	.00	.00	.00	.00	.04	.09	.09	.02	.00	.02	.00	.04	.00	.36
3.1- 4.0	0	3	0	0	0	0	0	0	0	0	3	2	1	0	0	0	0	9
(1)	.00	2.70	.00	.00	.00	.00	.00	.00	.00	.00	2.70	1.80	.90	.00	.00	.00	.00	8.11
(2)	.00	.07	.00	.00	.00	.00	.00	.00	.00	.00	.07	.04	.02	.00	.00	.00	.00	.20
4.1- 5.0	2	3	0	0	0	0	0	0	0	0	2	5	1	2	1	2	0	18
(1)	1.80	2.70	.00	.00	.00	.00	.00	.00	.00	.00	1.80	4.50	.90	1.80	.90	1.80	.00	16.22
(2)	.04	.07	.00	.00	.00	.00	.00	.00	.00	.00	.04	.11	.02	.04	.02	.04	.00	.40
5.1- 6.0	3	2	0	0	0	0	0	0	0	0	5	5	1	0	1	3	0	20
(1)	2.70	1.80	.00	.00	.00	.00	.00	.00	.00	.00	4.50	4.50	.90	.00	.90	2.70	.00	18.02
(2)	.07	.04	.00	.00	.00	.00	.00	.00	.00	.00	.11	.11	.02	.00	.02	.07	.00	.45

Table 2.3-52—{SSES 197' (60-m) 2001-2006 January JFD - continued}

(Page 2 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 2.49**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	7	16	7	1	0	1	0	32
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.31	14.41	6.31	.90	.00	.90	.00	28.83
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16	.36	.16	.02	.00	.02	.00	.72
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.90	.90	.00	.00	.00	.00	1.80
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.04
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	5	10	1	0	2	2	1	0	4	8	23	30	11	4	2	8	0	111
(1)	4.50	9.01	.90	.00	1.80	1.80	.90	.00	3.60	7.21	20.72	27.03	9.91	3.60	1.80	7.21	.00	100.00
(2)	.11	.22	.02	.00	.04	.04	.02	.00	.09	.18	.52	.67	.25	.09	.04	.18	.00	2.49

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-52—{SSES 197' (60-m) 2001-2006 January JFD - continued}

(Page 1 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 50.31**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	3
(1)	.00	.00	.00	.00	.04	.00	.00	.04	.00	.00	.00	.00	.04	.00	.00	.00	.00	.13
(2)	.00	.00	.00	.00	.02	.00	.00	.02	.00	.00	.00	.00	.02	.00	.00	.00	.00	.07
.5- 1.0	2	4	12	12	6	13	9	5	7	10	9	1	0	0	1	1	0	92
(1)	.09	.18	.53	.53	.27	.58	.40	.22	.31	.45	.40	.04	.00	.00	.04	.04	.00	4.10
(2)	.04	.09	.27	.27	.13	.29	.20	.11	.16	.22	.20	.02	.00	.00	.02	.02	.00	2.06
1.1- 1.5	2	9	11	9	7	3	6	14	16	13	12	2	0	2	1	2	0	109
(1)	.09	.40	.49	.40	.31	.13	.27	.62	.71	.58	.53	.09	.00	.09	.04	.09	.00	4.85
(2)	.04	.20	.25	.20	.16	.07	.13	.31	.36	.29	.27	.04	.00	.04	.02	.04	.00	2.44
1.6- 2.0	6	8	14	6	5	4	5	5	14	17	21	11	5	1	1	4	0	127
(1)	.27	.36	.62	.27	.22	.18	.22	.22	.62	.76	.93	.49	.22	.04	.04	.18	.00	5.65
(2)	.13	.18	.31	.13	.11	.09	.11	.11	.31	.38	.47	.25	.11	.02	.02	.09	.00	2.84
2.1- 3.0	27	32	22	8	5	5	19	7	10	24	55	21	16	14	7	11	0	283
(1)	1.20	1.42	.98	.36	.22	.22	.85	.31	.45	1.07	2.45	.93	.71	.62	.31	.49	.00	12.60
(2)	.60	.72	.49	.18	.11	.11	.43	.16	.22	.54	1.23	.47	.36	.31	.16	.25	.00	6.34
3.1- 4.0	51	29	36	6	5	5	5	12	7	16	27	25	30	27	31	36	0	348
(1)	2.27	1.29	1.60	.27	.22	.22	.22	.53	.31	.71	1.20	1.11	1.34	1.20	1.38	1.60	.00	15.49
(2)	1.14	.65	.81	.13	.11	.11	.11	.27	.16	.36	.60	.56	.67	.60	.69	.81	.00	7.80
4.1- 5.0	54	27	21	2	2	3	4	7	8	21	39	41	29	21	45	68	0	392
(1)	2.40	1.20	.93	.09	.09	.13	.18	.31	.36	.93	1.74	1.83	1.29	.93	2.00	3.03	.00	17.45
(2)	1.21	.60	.47	.04	.04	.07	.09	.16	.18	.47	.87	.92	.65	.47	1.01	1.52	.00	8.78
5.1- 6.0	21	26	14	0	0	3	1	2	2	19	32	91	36	35	42	52	0	376
(1)	.93	1.16	.62	.00	.00	.13	.04	.09	.09	.85	1.42	4.05	1.60	1.56	1.87	2.32	.00	16.74
(2)	.47	.58	.31	.00	.00	.07	.02	.04	.04	.43	.72	2.04	.81	.78	.94	1.16	.00	8.42

Table 2.3-52—{SSES 197' (60-m) 2001-2006 January JFD - continued}

(Page 2 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 50.31**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	13	9	7	0	0	0	3	3	0	9	23	176	43	24	55	41	0	406
(1)	.58	.40	.31	.00	.00	.00	.13	.13	.00	.40	1.02	7.84	1.91	1.07	2.45	1.83	.00	18.08
(2)	.29	.20	.16	.00	.00	.00	.07	.07	.00	.20	.52	3.94	.96	.54	1.23	.92	.00	9.09
8.1-10.0	2	0	0	0	0	0	1	0	0	1	2	49	18	2	4	16	0	95
(1)	.09	.00	.00	.00	.00	.00	.04	.00	.00	.04	.09	2.18	.80	.09	.18	.71	.00	4.23
(2)	.04	.00	.00	.00	.00	.00	.02	.00	.00	.02	.04	1.10	.40	.04	.09	.36	.00	2.13
10.1-40.3	0	0	0	0	0	2	1	0	0	1	1	8	1	1	0	0	0	15
(1)	.00	.00	.00	.00	.00	.09	.04	.00	.00	.04	.04	.36	.04	.04	.00	.00	.00	.67
(2)	.00	.00	.00	.00	.00	.04	.02	.00	.00	.02	.02	.18	.02	.02	.00	.00	.00	.34
ALL SPEEDS	178	144	137	43	31	38	54	56	64	131	221	425	179	127	187	231	0	2246
(1)	7.93	6.41	6.10	1.91	1.38	1.69	2.40	2.49	2.85	5.83	9.84	18.92	7.97	5.65	8.33	10.28	.00	100.00
(2)	3.99	3.23	3.07	.96	.69	.85	1.21	1.25	1.43	2.93	4.95	9.52	4.01	2.84	4.19	5.17	.00	50.31

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-52—{SSES 197' (60-m) 2001-2006 January JFD - continued}

(Page 1 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 28.49**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08
(2)	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	1	8	15	7	7	15	15	8	17	8	4	3	4	0	2	3	0	117
(1)	.08	.63	1.18	.55	.55	1.18	1.18	.63	1.34	.63	.31	.24	.31	.00	.16	.24	.00	9.20
(2)	.02	.18	.34	.16	.16	.34	.34	.18	.38	.18	.09	.07	.09	.00	.04	.07	.00	2.62
1.1- 1.5	8	15	19	9	7	10	16	25	20	11	13	3	4	0	3	4	0	167
(1)	.63	1.18	1.49	.71	.55	.79	1.26	1.97	1.57	.86	1.02	.24	.31	.00	.24	.31	.00	13.13
(2)	.18	.34	.43	.20	.16	.22	.36	.56	.45	.25	.29	.07	.09	.00	.07	.09	.00	3.74
1.6- 2.0	14	17	11	9	6	6	8	6	19	20	17	7	4	0	2	4	0	150
(1)	1.10	1.34	.86	.71	.47	.47	.63	.47	1.49	1.57	1.34	.55	.31	.00	.16	.31	.00	11.79
(2)	.31	.38	.25	.20	.13	.13	.18	.13	.43	.45	.38	.16	.09	.00	.04	.09	.00	3.36
2.1- 3.0	23	41	25	12	8	6	8	6	14	26	40	11	16	13	9	5	0	263
(1)	1.81	3.22	1.97	.94	.63	.47	.63	.47	1.10	2.04	3.14	.86	1.26	1.02	.71	.39	.00	20.68
(2)	.52	.92	.56	.27	.18	.13	.18	.13	.31	.58	.90	.25	.36	.29	.20	.11	.00	5.89
3.1- 4.0	15	29	19	4	8	7	3	1	9	18	33	28	11	3	12	12	0	212
(1)	1.18	2.28	1.49	.31	.63	.55	.24	.08	.71	1.42	2.59	2.20	.86	.24	.94	.94	.00	16.67
(2)	.34	.65	.43	.09	.18	.16	.07	.02	.20	.40	.74	.63	.25	.07	.27	.27	.00	4.75
4.1- 5.0	10	12	11	1	1	1	0	4	1	15	40	35	4	2	7	11	0	155
(1)	.79	.94	.86	.08	.08	.08	.00	.31	.08	1.18	3.14	2.75	.31	.16	.55	.86	.00	12.19
(2)	.22	.27	.25	.02	.02	.02	.00	.09	.02	.34	.90	.78	.09	.04	.16	.25	.00	3.47
5.1- 6.0	5	12	9	0	0	1	0	0	3	5	18	50	1	0	6	1	0	111
(1)	.39	.94	.71	.00	.00	.08	.00	.00	.24	.39	1.42	3.93	.08	.00	.47	.08	.00	8.73
(2)	.11	.27	.20	.00	.00	.02	.00	.00	.07	.11	.40	1.12	.02	.00	.13	.02	.00	2.49

Table 2.3-52—{SSES 197' (60-m) 2001-2006 January JFD - continued}
(Page 2 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 28.49**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	5	5	0	0	0	0	1	3	10	13	32	4	1	0	0	0	75
(1)	.08	.39	.39	.00	.00	.00	.00	.08	.24	.79	1.02	2.52	.31	.08	.00	.00	.00	5.90
(2)	.02	.11	.11	.00	.00	.00	.00	.02	.07	.22	.29	.72	.09	.02	.00	.00	.00	1.68
8.1-10.0	0	2	0	0	0	0	0	1	1	3	2	2	3	0	0	0	0	14
(1)	.00	.16	.00	.00	.00	.00	.00	.08	.08	.24	.16	.16	.24	.00	.00	.00	.00	1.10
(2)	.00	.04	.00	.00	.00	.00	.00	.02	.02	.07	.04	.04	.07	.00	.00	.00	.00	.31
10.1-40.3	0	0	0	0	0	0	1	1	2	3	0	0	0	0	0	0	0	7
(1)	.00	.00	.00	.00	.00	.00	.08	.08	.16	.24	.00	.00	.00	.00	.00	.00	.00	.55
(2)	.00	.00	.00	.00	.00	.00	.02	.02	.04	.07	.00	.00	.00	.00	.00	.00	.00	.16
ALL SPEEDS	77	141	114	42	37	47	51	53	89	119	180	171	51	19	41	40	0	1272
(1)	6.05	11.08	8.96	3.30	2.91	3.69	4.01	4.17	7.00	9.36	14.15	13.44	4.01	1.49	3.22	3.14	.00	100.00
(2)	1.72	3.16	2.55	.94	.83	1.05	1.14	1.19	1.99	2.67	4.03	3.83	1.14	.43	.92	.90	.00	28.49

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-52—{SSES 197' (60-m) 2001-2006 January JFD - continued}

(Page 1 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 8.49**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	3	10	8	10	8	8	8	2	0	3	0	1	1	0	0	1	0	63
(1)	.79	2.64	2.11	2.64	2.11	2.11	2.11	.53	.00	.79	.00	.26	.26	.00	.00	.26	.00	16.62
(2)	.07	.22	.18	.22	.18	.18	.18	.04	.00	.07	.00	.02	.02	.00	.00	.02	.00	1.41
1.1- 1.5	8	18	29	10	10	5	3	3	6	5	2	1	1	0	0	1	0	102
(1)	2.11	4.75	7.65	2.64	2.64	1.32	.79	.79	1.58	1.32	.53	.26	.26	.00	.00	.26	.00	26.91
(2)	.18	.40	.65	.22	.22	.11	.07	.07	.13	.11	.04	.02	.02	.00	.00	.02	.00	2.28
1.6- 2.0	5	24	10	5	2	1	1	1	9	6	2	1	0	0	1	2	0	70
(1)	1.32	6.33	2.64	1.32	.53	.26	.26	.26	2.37	1.58	.53	.26	.00	.00	.26	.53	.00	18.47
(2)	.11	.54	.22	.11	.04	.02	.02	.02	.20	.13	.04	.02	.00	.00	.02	.04	.00	1.57
2.1- 3.0	7	21	6	0	1	0	1	2	7	5	18	1	1	2	1	0	0	73
(1)	1.85	5.54	1.58	.00	.26	.00	.26	.53	1.85	1.32	4.75	.26	.26	.53	.26	.00	.00	19.26
(2)	.16	.47	.13	.00	.02	.00	.02	.04	.16	.11	.40	.02	.02	.04	.02	.00	.00	1.64
3.1- 4.0	0	1	1	0	0	0	0	0	0	5	18	6	1	1	1	0	0	34
(1)	.00	.26	.26	.00	.00	.00	.00	.00	.00	1.32	4.75	1.58	.26	.26	.26	.00	.00	8.97
(2)	.00	.02	.02	.00	.00	.00	.00	.00	.00	.11	.40	.13	.02	.02	.02	.00	.00	.76
4.1- 5.0	0	0	0	0	0	0	0	0	2	0	6	14	0	0	1	0	0	23
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.53	.00	1.58	3.69	.00	.00	.26	.00	.00	6.07
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.13	.31	.00	.00	.02	.00	.00	.52
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	2	6	0	0	0	0	0	8
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.53	1.58	.00	.00	.00	.00	.00	2.11
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.13	.00	.00	.00	.00	.00	.18

Table 2.3-52—{SSES 197' (60-m) 2001-2006 January JFD - continued}

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SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 8.49**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	1	0	1	4	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.26	.00	.26	1.06	.00	.00	.00	.00	.00	1.58
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.09	.00	.00	.00	.00	.00	.13
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	23	74	54	25	21	14	13	8	25	24	49	34	4	3	4	4	0	379
(1)	6.07	19.53	14.25	6.60	5.54	3.69	3.43	2.11	6.60	6.33	12.93	8.97	1.06	.79	1.06	1.06	.00	100.00
(2)	.52	1.66	1.21	.56	.47	.31	.29	.18	.56	.54	1.10	.76	.09	.07	.09	.09	.00	8.49

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-52—{SSES 197' (60-m) 2001-2006 January JFD - continued}

(Page 1 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 6.72**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	2	2	4	6	2	2	4	2	1	0	0	0	0	0	0	0	0	25
(1)	.67	.67	1.33	2.00	.67	.67	1.33	.67	.33	.00	.00	.00	.00	.00	.00	.00	.00	8.33
(2)	.04	.04	.09	.13	.04	.04	.09	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.56
1.1- 1.5	0	21	26	5	6	10	4	5	4	2	0	1	0	1	0	0	0	85
(1)	.00	7.00	8.67	1.67	2.00	3.33	1.33	1.67	1.33	.67	.00	.33	.00	.33	.00	.00	.00	28.33
(2)	.00	.47	.58	.11	.13	.22	.09	.11	.09	.04	.00	.02	.00	.02	.00	.00	.00	1.90
1.6- 2.0	15	37	14	2	0	0	2	4	7	6	3	0	0	0	0	0	0	90
(1)	5.00	12.33	4.67	.67	.00	.00	.67	1.33	2.33	2.00	1.00	.00	.00	.00	.00	.00	.00	30.00
(2)	.34	.83	.31	.04	.00	.00	.04	.09	.16	.13	.07	.00	.00	.00	.00	.00	.00	2.02
2.1- 3.0	14	15	3	1	0	1	0	1	7	9	7	1	0	0	0	0	0	59
(1)	4.67	5.00	1.00	.33	.00	.33	.00	.33	2.33	3.00	2.33	.33	.00	.00	.00	.00	.00	19.67
(2)	.31	.34	.07	.02	.00	.02	.00	.02	.16	.20	.16	.02	.00	.00	.00	.00	.00	1.32
3.1- 4.0	2	0	0	0	0	0	0	0	1	6	6	3	0	0	1	0	0	19
(1)	.67	.00	.00	.00	.00	.00	.00	.00	.33	2.00	2.00	1.00	.00	.00	.33	.00	.00	6.33
(2)	.04	.00	.00	.00	.00	.00	.00	.00	.02	.13	.13	.07	.00	.00	.02	.00	.00	.43
4.1- 5.0	0	0	0	0	0	0	0	0	1	5	1	4	0	0	0	0	0	11
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.33	1.67	.33	1.33	.00	.00	.00	.00	.00	3.67
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.11	.02	.09	.00	.00	.00	.00	.00	.25
5.1- 6.0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.33	.33	.00	.67	.00	.00	.00	.00	.00	1.33
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.04	.00	.00	.00	.00	.00	.09

Table 2.3-52—{SSES 197' (60-m) 2001-2006 January JFD - continued}

(Page 2 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 6.72**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	1	6	0	0	0	0	0	7
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.33	2.00	.00	.00	.00	.00	.00	2.33
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.13	.00	.00	.00	.00	.00	.16
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	33	75	47	14	8	13	10	12	22	29	18	17	0	1	1	0	0	300
(1)	11.00	25.00	15.67	4.67	2.67	4.33	3.33	4.00	7.33	9.67	6.00	5.67	.00	.33	.33	.00	.00	100.00
(2)	.74	1.68	1.05	.31	.18	.29	.22	.27	.49	.65	.40	.38	.00	.02	.02	.00	.00	6.72

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-52—{SSES 197' (60-m) 2001-2006 January JFD - continued}

(Page 1 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS ALL — CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	1	1	0	1	0	0	0	0	1	0	0	0	0	4
(1)	.00	.00	.00	.00	.02	.02	.00	.02	.00	.00	.00	.00	.02	.00	.00	.00	.00	.09
(2)	.00	.00	.00	.00	.02	.02	.00	.02	.00	.00	.00	.00	.02	.00	.00	.00	.00	.09
.5- 1.0	8	25	39	35	24	39	37	17	25	21	13	5	5	0	3	6	0	302
(1)	.18	.56	.87	.78	.54	.87	.83	.38	.56	.47	.29	.11	.11	.00	.07	.13	.00	6.77
(2)	.18	.56	.87	.78	.54	.87	.83	.38	.56	.47	.29	.11	.11	.00	.07	.13	.00	6.77
1.1- 1.5	18	63	86	34	32	29	30	49	49	36	28	8	5	3	4	7	0	481
(1)	.40	1.41	1.93	.76	.72	.65	.67	1.10	1.10	.81	.63	.18	.11	.07	.09	.16	.00	10.78
(2)	.40	1.41	1.93	.76	.72	.65	.67	1.10	1.10	.81	.63	.18	.11	.07	.09	.16	.00	10.78
1.6- 2.0	40	86	49	22	14	12	16	17	51	52	46	19	9	1	4	10	0	448
(1)	.90	1.93	1.10	.49	.31	.27	.36	.38	1.14	1.16	1.03	.43	.20	.02	.09	.22	.00	10.04
(2)	.90	1.93	1.10	.49	.31	.27	.36	.38	1.14	1.16	1.03	.43	.20	.02	.09	.22	.00	10.04
2.1- 3.0	71	110	59	21	14	12	28	17	41	74	135	38	33	31	17	18	0	719
(1)	1.59	2.46	1.32	.47	.31	.27	.63	.38	.92	1.66	3.02	.85	.74	.69	.38	.40	.00	16.11
(2)	1.59	2.46	1.32	.47	.31	.27	.63	.38	.92	1.66	3.02	.85	.74	.69	.38	.40	.00	16.11
3.1- 4.0	68	62	56	10	13	12	8	13	17	51	94	66	44	31	46	48	0	639
(1)	1.52	1.39	1.25	.22	.29	.27	.18	.29	.38	1.14	2.11	1.48	.99	.69	1.03	1.08	.00	14.31
(2)	1.52	1.39	1.25	.22	.29	.27	.18	.29	.38	1.14	2.11	1.48	.99	.69	1.03	1.08	.00	14.31
4.1- 5.0	67	42	33	3	3	4	4	11	12	43	93	100	37	25	54	81	0	612
(1)	1.50	.94	.74	.07	.07	.09	.09	.25	.27	.96	2.08	2.24	.83	.56	1.21	1.81	.00	13.71
(2)	1.50	.94	.74	.07	.07	.09	.09	.25	.27	.96	2.08	2.24	.83	.56	1.21	1.81	.00	13.71
5.1- 6.0	30	46	24	0	0	4	1	2	6	26	76	159	42	36	49	56	0	557
(1)	.67	1.03	.54	.00	.00	.09	.02	.04	.13	.58	1.70	3.56	.94	.81	1.10	1.25	.00	12.48
(2)	.67	1.03	.54	.00	.00	.09	.02	.04	.13	.58	1.70	3.56	.94	.81	1.10	1.25	.00	12.48

Table 2.3-52—{SSES 197' (60-m) 2001-2006 January JFD - continued}

(Page 2 of 2)

SSES JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	14	16	12	0	0	0	3	4	4	19	51	261	57	26	55	42	0	564
(1)	.31	.36	.27	.00	.00	.00	.07	.09	.09	.43	1.14	5.85	1.28	.58	1.23	.94	.00	12.63
(2)	.31	.36	.27	.00	.00	.00	.07	.09	.09	.43	1.14	5.85	1.28	.58	1.23	.94	.00	12.63
8.1-10.0	2	2	0	0	0	0	1	1	1	4	4	56	23	2	4	16	0	116
(1)	.04	.04	.00	.00	.00	.00	.02	.02	.02	.09	.09	1.25	.52	.04	.09	.36	.00	2.60
(2)	.04	.04	.00	.00	.00	.00	.02	.02	.02	.09	.09	1.25	.52	.04	.09	.36	.00	2.60
10.1-40.3	0	0	0	0	0	2	2	1	2	4	1	8	1	1	0	0	0	22
(1)	.00	.00	.00	.00	.00	.04	.04	.02	.04	.09	.02	.18	.02	.02	.00	.00	.00	.49
(2)	.00	.00	.00	.00	.00	.04	.04	.02	.04	.09	.02	.18	.02	.02	.00	.00	.00	.49
ALL SPEEDS	318	452	358	125	101	115	130	133	208	330	541	720	257	156	236	284	0	4464
(1)	7.12	10.13	8.02	2.80	2.26	2.58	2.91	2.98	4.66	7.39	12.12	16.13	5.76	3.49	5.29	6.36	.00	100.00
(2)	7.12	10.13	8.02	2.80	2.26	2.58	2.91	2.98	4.66	7.39	12.12	16.13	5.76	3.49	5.29	6.36	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-53 {SSES 197' (60-m) 2001-2006 February JFD}

(Page 1 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS A — CLASS FREQUENCY (PERCENT) = 3.77

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.65	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.65
(2)	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
1.1- 1.5	0	0	0	1	0	0	0	0	1	1	0	1	0	0	0	0	0	4
(1)	.00	.00	.00	.65	.00	.00	.00	.00	.65	.65	.00	.65	.00	.00	.00	.00	.00	2.61
(2)	.00	.00	.00	.02	.00	.00	.00	.00	.02	.02	.00	.02	.00	.00	.00	.00	.00	.10
1.6- 2.0	0	0	2	0	0	0	1	0	0	5	4	0	0	0	0	0	0	12
(1)	.00	.00	1.31	.00	.00	.00	.65	.00	.00	3.27	2.61	.00	.00	.00	.00	.00	.00	7.84
(2)	.00	.00	.05	.00	.00	.00	.02	.00	.00	.12	.10	.00	.00	.00	.00	.00	.00	.30
2.1- 3.0	0	1	3	0	0	2	1	1	1	9	9	1	0	0	0	0	0	28
(1)	.00	.65	1.96	.00	.00	1.31	.65	.65	.65	5.88	5.88	.65	.00	.00	.00	.00	.00	18.30
(2)	.00	.02	.07	.00	.00	.05	.02	.02	.02	.22	.22	.02	.00	.00	.00	.00	.00	.69
3.1- 4.0	0	0	4	1	0	0	0	1	0	1	14	1	3	0	0	0	0	25
(1)	.00	.00	2.61	.65	.00	.00	.00	.65	.00	.65	9.15	.65	1.96	.00	.00	.00	.00	16.34
(2)	.00	.00	.10	.02	.00	.00	.00	.02	.00	.02	.35	.02	.07	.00	.00	.00	.00	.62
4.1- 5.0	0	0	1	0	0	0	2	2	0	1	9	3	0	0	0	0	0	18
(1)	.00	.00	.65	.00	.00	.00	1.31	1.31	.00	.65	5.88	1.96	.00	.00	.00	.00	.00	11.76
(2)	.00	.00	.02	.00	.00	.00	.05	.05	.00	.02	.22	.07	.00	.00	.00	.00	.00	.44
5.1- 6.0	0	1	0	0	0	0	0	1	1	2	9	5	3	1	0	0	0	23
(1)	.00	.65	.00	.00	.00	.00	.00	.65	.65	1.31	5.88	3.27	1.96	.65	.00	.00	.00	15.03
(2)	.00	.02	.00	.00	.00	.00	.00	.02	.02	.05	.22	.12	.07	.02	.00	.00	.00	.57

Table 2.3-53 {SSES 197' (60-m) 2001-2006 February JFD}

(Page 2 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 3.77**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	2	0	0	0	0	0	0	3	4	14	14	0	0	0	0	0	37
(1)	.00	1.31	.00	.00	.00	.00	.00	.00	1.96	2.61	9.15	9.15	.00	.00	.00	.00	.00	24.18
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.07	.10	.35	.35	.00	.00	.00	.00	.00	.91
8.1-10.0	0	0	0	0	0	0	0	0	0	1	0	4	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.65	.00	2.61	.00	.00	.00	.00	.00	3.27
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.10	.00	.00	.00	.00	.00	.12
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	4	10	2	0	3	4	5	6	24	59	29	6	1	0	0	0	153
(1)	.00	2.61	6.54	1.31	.00	1.96	2.61	3.27	3.92	15.69	38.56	18.95	3.92	.65	.00	.00	.00	100.00
(2)	.00	.10	.25	.05	.00	.07	.10	.12	.15	.59	1.45	.71	.15	.02	.00	.00	.00	3.77

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-53—{SSES 197' (60-m) 2001-2006 February JFD - continued}

(Page 1 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.16**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.78	.78	.00	.00	.78	.78	.00	.00	.00	.00	.00	.00	.00	3.13
(2)	.00	.00	.00	.00	.02	.02	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.10
1.1- 1.5	0	0	1	1	0	0	1	0	1	0	1	0	0	0	0	0	0	5
(1)	.00	.00	.78	.78	.00	.00	.78	.00	.78	.00	.78	.00	.00	.00	.00	.00	.00	3.91
(2)	.00	.00	.02	.02	.00	.00	.02	.00	.02	.00	.02	.00	.00	.00	.00	.00	.00	.12
1.6- 2.0	0	0	2	0	0	0	1	0	0	2	1	0	0	0	0	0	0	6
(1)	.00	.00	1.56	.00	.00	.00	.78	.00	.00	1.56	.78	.00	.00	.00	.00	.00	.00	4.69
(2)	.00	.00	.05	.00	.00	.00	.02	.00	.00	.05	.02	.00	.00	.00	.00	.00	.00	.15
2.1- 3.0	0	1	2	0	1	0	1	0	0	2	5	1	0	0	1	1	0	15
(1)	.00	.78	1.56	.00	.78	.00	.78	.00	.00	1.56	3.91	.78	.00	.00	.78	.78	.00	11.72
(2)	.00	.02	.05	.00	.02	.00	.02	.00	.00	.05	.12	.02	.00	.00	.02	.02	.00	.37
3.1- 4.0	1	2	4	0	1	0	0	1	1	0	1	1	0	0	0	0	0	12
(1)	.78	1.56	3.13	.00	.78	.00	.00	.78	.78	.00	.78	.78	.00	.00	.00	.00	.00	9.38
(2)	.02	.05	.10	.00	.02	.00	.00	.02	.02	.00	.02	.02	.00	.00	.00	.00	.00	.30
4.1- 5.0	3	1	3	0	0	0	0	0	0	0	8	3	0	0	1	0	0	19
(1)	2.34	.78	2.34	.00	.00	.00	.00	.00	.00	.00	6.25	2.34	.00	.00	.78	.00	.00	14.84
(2)	.07	.02	.07	.00	.00	.00	.00	.00	.00	.00	.20	.07	.00	.00	.02	.00	.00	.47
5.1- 6.0	1	5	2	0	0	0	0	0	1	3	4	7	2	0	0	0	0	25
(1)	.78	3.91	1.56	.00	.00	.00	.00	.00	.78	2.34	3.13	5.47	1.56	.00	.00	.00	.00	19.53
(2)	.02	.12	.05	.00	.00	.00	.00	.00	.02	.07	.10	.17	.05	.00	.00	.00	.00	.62

Table 2.3-53—{SSES 197' (60-m) 2001-2006 February JFD - continued}

(Page 2 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.16**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	1	0	0	0	0	0	0	3	15	17	0	0	0	0	0	36
(1)	.00	.00	.78	.00	.00	.00	.00	.00	.00	2.34	11.72	13.28	.00	.00	.00	.00	.00	28.13
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.07	.37	.42	.00	.00	.00	.00	.00	.89
8.1-10.0	0	0	0	0	0	0	0	0	0	2	1	3	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.56	.78	2.34	.00	.00	.00	.00	.00	4.69
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.02	.07	.00	.00	.00	.00	.00	.15
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	5	9	15	1	3	1	3	1	4	13	36	32	2	0	2	1	0	128
(1)	3.91	7.03	11.72	.78	2.34	.78	2.34	.78	3.13	10.16	28.13	25.00	1.56	.00	1.56	.78	.00	100.00
(2)	.12	.22	.37	.02	.07	.02	.07	.02	.10	.32	.89	.79	.05	.00	.05	.02	.00	3.16

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-53—{SSES 197' (60-m) 2001-2006 February JFD - continued}

(Page 1 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 4.14

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	1	0	0	1	0	1	1	0	0	0	0	0	0	0	0	4
(1)	.00	.00	.60	.00	.00	.60	.00	.60	.60	.00	.00	.00	.00	.00	.00	.00	.00	2.38
(2)	.00	.00	.02	.00	.00	.02	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.10
1.1- 1.5	0	0	1	1	4	0	0	1	1	1	1	0	1	0	0	0	0	11
(1)	.00	.00	.60	.60	2.38	.00	.00	.60	.60	.60	.60	.00	.60	.00	.00	.00	.00	6.55
(2)	.00	.00	.02	.02	.10	.00	.00	.02	.02	.02	.02	.00	.02	.00	.00	.00	.00	.27
1.6- 2.0	0	2	2	3	2	0	0	0	1	1	2	0	1	0	0	0	0	14
(1)	.00	1.19	1.19	1.79	1.19	.00	.00	.00	.60	.60	1.19	.00	.60	.00	.00	.00	.00	8.33
(2)	.00	.05	.05	.07	.05	.00	.00	.00	.02	.02	.05	.00	.02	.00	.00	.00	.00	.35
2.1- 3.0	1	3	1	3	1	0	2	0	1	3	6	1	0	1	0	0	0	23
(1)	.60	1.79	.60	1.79	.60	.00	1.19	.00	.60	1.79	3.57	.60	.00	.60	.00	.00	.00	13.69
(2)	.02	.07	.02	.07	.02	.00	.05	.00	.02	.07	.15	.02	.00	.02	.00	.00	.00	.57
3.1- 4.0	0	6	1	2	0	0	1	0	2	0	7	4	0	0	0	0	0	23
(1)	.00	3.57	.60	1.19	.00	.00	.60	.00	1.19	.00	4.17	2.38	.00	.00	.00	.00	.00	13.69
(2)	.00	.15	.02	.05	.00	.00	.02	.00	.05	.00	.17	.10	.00	.00	.00	.00	.00	.57
4.1- 5.0	2	4	1	0	0	0	0	0	1	4	5	2	0	0	1	0	0	20
(1)	1.19	2.38	.60	.00	.00	.00	.00	.00	.60	2.38	2.98	1.19	.00	.00	.60	.00	.00	11.90
(2)	.05	.10	.02	.00	.00	.00	.00	.00	.02	.10	.12	.05	.00	.00	.02	.00	.00	.49
5.1- 6.0	3	0	0	0	0	0	1	0	1	2	3	8	3	1	1	1	0	24
(1)	1.79	.00	.00	.00	.00	.00	.60	.00	.60	1.19	1.79	4.76	1.79	.60	.60	.60	.00	14.29
(2)	.07	.00	.00	.00	.00	.00	.02	.00	.02	.05	.07	.20	.07	.02	.02	.02	.00	.59

Table 2.3-53—{SSES 197' (60-m) 2001-2006 February JFD - continued}

(Page 2 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 4.14**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	0	3	0	0	0	0	0	1	1	9	14	5	1	1	2	0	38
(1)	.60	.00	1.79	.00	.00	.00	.00	.00	.60	.60	5.36	8.33	2.98	.60	.60	1.19	.00	22.62
(2)	.02	.00	.07	.00	.00	.00	.00	.00	.02	.02	.22	.35	.12	.02	.02	.05	.00	.94
8.1-10.0	0	0	0	0	0	0	0	0	0	3	0	4	3	0	0	0	0	10
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.79	.00	2.38	1.79	.00	.00	.00	.00	5.95
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.10	.07	.00	.00	.00	.00	.25
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.60	.00	.00	.00	.00	.00	.60
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
ALL SPEEDS	7	15	10	9	7	1	4	2	9	15	33	34	13	3	3	3	0	168
(1)	4.17	8.93	5.95	5.36	4.17	.60	2.38	1.19	5.36	8.93	19.64	20.24	7.74	1.79	1.79	1.79	.00	100.00
(2)	.17	.37	.25	.22	.17	.02	.10	.05	.22	.37	.81	.84	.32	.07	.07	.07	.00	4.14

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-53—{SSES 197' (60-m) 2001-2006 February JFD - continued}

(Page 1 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS D — CLASS FREQUENCY (PERCENT) = 46.57

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	3	9	5	8	3	1	9	5	5	3	4	0	1	1	0	0	0	57
(1)	.16	.48	.26	.42	.16	.05	.48	.26	.26	.16	.21	.00	.05	.05	.00	.00	.00	3.02
(2)	.07	.22	.12	.20	.07	.02	.22	.12	.12	.07	.10	.00	.02	.02	.00	.00	.00	1.41
1.1- 1.5	7	9	10	11	4	4	7	8	6	9	9	2	0	0	0	2	0	88
(1)	.37	.48	.53	.58	.21	.21	.37	.42	.32	.48	.48	.11	.00	.00	.00	.11	.00	4.66
(2)	.17	.22	.25	.27	.10	.10	.17	.20	.15	.22	.22	.05	.00	.00	.00	.05	.00	2.17
1.6- 2.0	6	13	5	6	7	4	3	2	5	6	24	5	2	2	1	0	0	91
(1)	.32	.69	.26	.32	.37	.21	.16	.11	.26	.32	1.27	.26	.11	.11	.05	.00	.00	4.82
(2)	.15	.32	.12	.15	.17	.10	.07	.05	.12	.15	.59	.12	.05	.05	.02	.00	.00	2.24
2.1- 3.0	14	15	28	16	10	9	10	6	5	9	22	16	7	5	8	6	0	186
(1)	.74	.79	1.48	.85	.53	.48	.53	.32	.26	.48	1.16	.85	.37	.26	.42	.32	.00	9.85
(2)	.35	.37	.69	.39	.25	.22	.25	.15	.12	.22	.54	.39	.17	.12	.20	.15	.00	4.59
3.1- 4.0	19	22	21	5	4	7	9	15	11	6	16	15	19	19	31	21	0	240
(1)	1.01	1.16	1.11	.26	.21	.37	.48	.79	.58	.32	.85	.79	1.01	1.01	1.64	1.11	.00	12.71
(2)	.47	.54	.52	.12	.10	.17	.22	.37	.27	.15	.39	.37	.47	.47	.76	.52	.00	5.92
4.1- 5.0	24	22	13	1	1	2	7	13	7	10	12	25	29	26	65	55	0	312
(1)	1.27	1.16	.69	.05	.05	.11	.37	.69	.37	.53	.64	1.32	1.54	1.38	3.44	2.91	.00	16.52
(2)	.59	.54	.32	.02	.02	.05	.17	.32	.17	.25	.30	.62	.71	.64	1.60	1.36	.00	7.69
5.1- 6.0	13	21	7	3	4	2	5	5	6	13	26	62	54	22	63	49	0	355
(1)	.69	1.11	.37	.16	.21	.11	.26	.26	.32	.69	1.38	3.28	2.86	1.16	3.34	2.59	.00	18.79
(2)	.32	.52	.17	.07	.10	.05	.12	.12	.15	.32	.64	1.53	1.33	.54	1.55	1.21	.00	8.75

Table 2.3-53—{SSES 197' (60-m) 2001-2006 February JFD - continued}

(Page 2 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 46.57**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	5	12	2	0	1	0	1	2	10	10	34	105	51	45	72	47	0	397
(1)	.26	.64	.11	.00	.05	.00	.05	.11	.53	.53	1.80	5.56	2.70	2.38	3.81	2.49	.00	21.02
(2)	.12	.30	.05	.00	.02	.00	.02	.05	.25	.25	.84	2.59	1.26	1.11	1.78	1.16	.00	9.79
8.1-10.0	0	0	0	0	0	1	0	0	0	5	6	62	24	8	14	8	0	128
(1)	.00	.00	.00	.00	.00	.05	.00	.00	.00	.26	.32	3.28	1.27	.42	.74	.42	.00	6.78
(2)	.00	.00	.00	.00	.00	.02	.00	.00	.00	.12	.15	1.53	.59	.20	.35	.20	.00	3.16
10.1-40.3	0	0	0	0	0	0	0	0	0	1	0	24	8	1	0	0	0	34
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	1.27	.42	.05	.00	.00	.00	1.80
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.59	.20	.02	.00	.00	.00	.84
ALL SPEEDS	91	123	91	50	34	30	51	56	55	72	154	316	195	129	254	188	0	1889
(1)	4.82	6.51	4.82	2.65	1.80	1.59	2.70	2.96	2.91	3.81	8.15	16.73	10.32	6.83	13.45	9.95	.00	100.00
(2)	2.24	3.03	2.24	1.23	.84	.74	1.26	1.38	1.36	1.78	3.80	7.79	4.81	3.18	6.26	4.64	.00	46.57

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-53—{SSES 197' (60-m) 2001-2006 February JFD - continued}

(Page 1 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS E — CLASS FREQUENCY (PERCENT) = 26.38

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	3	5	15	8	7	7	5	6	5	8	3	4	0	1	0	2	0	79
(1)	.28	.47	1.40	.75	.65	.65	.47	.56	.47	.75	.28	.37	.00	.09	.00	.19	.00	7.38
(2)	.07	.12	.37	.20	.17	.17	.12	.15	.12	.20	.07	.10	.00	.02	.00	.05	.00	1.95
1.1- 1.5	7	13	20	11	8	6	6	8	9	15	18	6	2	1	1	2	0	133
(1)	.65	1.21	1.87	1.03	.75	.56	.56	.75	.84	1.40	1.68	.56	.19	.09	.09	.19	.00	12.43
(2)	.17	.32	.49	.27	.20	.15	.15	.20	.22	.37	.44	.15	.05	.02	.02	.05	.00	3.28
1.6- 2.0	11	25	14	9	3	2	4	2	10	21	12	3	3	0	0	1	0	120
(1)	1.03	2.34	1.31	.84	.28	.19	.37	.19	.93	1.96	1.12	.28	.28	.00	.00	.09	.00	11.21
(2)	.27	.62	.35	.22	.07	.05	.10	.05	.25	.52	.30	.07	.07	.00	.00	.02	.00	2.96
2.1- 3.0	11	25	19	8	9	9	5	10	9	19	30	16	8	9	6	4	0	197
(1)	1.03	2.34	1.78	.75	.84	.84	.47	.93	.84	1.78	2.80	1.50	.75	.84	.56	.37	.00	18.41
(2)	.27	.62	.47	.20	.22	.22	.12	.25	.22	.47	.74	.39	.20	.22	.15	.10	.00	4.86
3.1- 4.0	20	11	13	4	5	5	9	12	7	16	47	21	5	3	15	5	0	198
(1)	1.87	1.03	1.21	.37	.47	.47	.84	1.12	.65	1.50	4.39	1.96	.47	.28	1.40	.47	.00	18.50
(2)	.49	.27	.32	.10	.12	.12	.22	.30	.17	.39	1.16	.52	.12	.07	.37	.12	.00	4.88
4.1- 5.0	8	6	4	3	0	0	5	6	5	11	47	30	2	1	11	6	0	145
(1)	.75	.56	.37	.28	.00	.00	.47	.56	.47	1.03	4.39	2.80	.19	.09	1.03	.56	.00	13.55
(2)	.20	.15	.10	.07	.00	.00	.12	.15	.12	.27	1.16	.74	.05	.02	.27	.15	.00	3.57
5.1- 6.0	2	3	6	3	0	0	1	4	4	14	19	45	2	0	6	3	0	112
(1)	.19	.28	.56	.28	.00	.00	.09	.37	.37	1.31	1.78	4.21	.19	.00	.56	.28	.00	10.47
(2)	.05	.07	.15	.07	.00	.00	.02	.10	.10	.35	.47	1.11	.05	.00	.15	.07	.00	2.76

Table 2.3-53—{SSES 197' (60-m) 2001-2006 February JFD - continued}

(Page 2 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS E — CLASS FREQUENCY (PERCENT) = 26.38

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	5	0	0	1	1	1	0	1	12	8	34	3	0	2	0	0	68
(1)	.00	.47	.00	.00	.09	.09	.09	.00	.09	1.12	.75	3.18	.28	.00	.19	.00	.00	6.36
(2)	.00	.12	.00	.00	.02	.02	.02	.00	.02	.30	.20	.84	.07	.00	.05	.00	.00	1.68
8.1-10.0	0	0	0	0	0	0	3	1	2	6	0	4	0	0	0	0	0	16
(1)	.00	.00	.00	.00	.00	.00	.28	.09	.19	.56	.00	.37	.00	.00	.00	.00	.00	1.50
(2)	.00	.00	.00	.00	.00	.00	.07	.02	.05	.15	.00	.10	.00	.00	.00	.00	.00	.39
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.09
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02
ALL SPEEDS	62	93	91	46	33	30	39	50	52	122	184	163	26	15	41	23	0	1070
(1)	5.79	8.69	8.50	4.30	3.08	2.80	3.64	4.67	4.86	11.40	17.20	15.23	2.43	1.40	3.83	2.15	.00	100.00
(2)	1.53	2.29	2.24	1.13	.81	.74	.96	1.23	1.28	3.01	4.54	4.02	.64	.37	1.01	.57	.00	26.38

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-53—{SSES 197' (60-m) 2001-2006 February JFD - continued}

(Page 1 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS F — CLASS FREQUENCY (PERCENT) = 9.54

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.26
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	0	2	10	6	12	9	3	6	3	1	1	0	0	0	0	0	0	53
(1)	.00	.52	2.58	1.55	3.10	2.33	.78	1.55	.78	.26	.26	.00	.00	.00	.00	.00	.00	13.70
(2)	.00	.05	.25	.15	.30	.22	.07	.15	.07	.02	.02	.00	.00	.00	.00	.00	.00	1.31
1.1- 1.5	3	20	15	7	4	3	6	7	7	3	0	0	0	1	0	0	0	76
(1)	.78	5.17	3.88	1.81	1.03	.78	1.55	1.81	1.81	.78	.00	.00	.00	.26	.00	.00	.00	19.64
(2)	.07	.49	.37	.17	.10	.07	.15	.17	.17	.07	.00	.00	.00	.02	.00	.00	.00	1.87
1.6- 2.0	10	47	11	2	2	1	3	5	11	4	3	0	0	1	0	2	0	102
(1)	2.58	12.14	2.84	.52	.52	.26	.78	1.29	2.84	1.03	.78	.00	.00	.26	.00	.52	.00	26.36
(2)	.25	1.16	.27	.05	.05	.02	.07	.12	.27	.10	.07	.00	.00	.02	.00	.05	.00	2.51
2.1- 3.0	14	28	13	0	1	1	1	0	7	11	14	2	0	1	0	1	0	94
(1)	3.62	7.24	3.36	.00	.26	.26	.26	.00	1.81	2.84	3.62	.52	.00	.26	.00	.26	.00	24.29
(2)	.35	.69	.32	.00	.02	.02	.02	.00	.17	.27	.35	.05	.00	.02	.00	.02	.00	2.32
3.1- 4.0	2	11	6	0	0	0	0	1	2	6	8	4	0	0	1	0	0	41
(1)	.52	2.84	1.55	.00	.00	.00	.00	.26	.52	1.55	2.07	1.03	.00	.00	.26	.00	.00	10.59
(2)	.05	.27	.15	.00	.00	.00	.00	.02	.05	.15	.20	.10	.00	.00	.02	.00	.00	1.01
4.1- 5.0	0	0	0	0	0	0	0	0	1	2	2	8	0	0	0	1	0	14
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.26	.52	.52	2.07	.00	.00	.00	.26	.00	3.62
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.05	.20	.00	.00	.00	.02	.00	.35
5.1- 6.0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	1	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.26	.00	.52	.00	.00	.00	.26	.00	1.03
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.05	.00	.00	.00	.02	.00	.10

Table 2.3-53—{SSES 197' (60-m) 2001-2006 February JFD - continued}

(Page 2 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 9.54**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.26	.00	.00	.00	.00	.00	.00	.00	.26
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.26	.00	.00	.00	.00	.00	.00	.00	.26
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	29	108	56	15	19	14	13	19	31	30	28	16	0	3	1	5	0	387
(1)	7.49	27.91	14.47	3.88	4.91	3.62	3.36	4.91	8.01	7.75	7.24	4.13	.00	.78	.26	1.29	.00	100.00
(2)	.71	2.66	1.38	.37	.47	.35	.32	.47	.76	.74	.69	.39	.00	.07	.02	.12	.00	9.54

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-53—{SSES 197' (60-m) 2001-2006 February JFD - continued}

(Page 1 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 6.43**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	1	2	4	9	4	7	2	3	2	1	0	0	0	0	0	0	0	35
(1)	.38	.77	1.53	3.45	1.53	2.68	.77	1.15	.77	.38	.00	.00	.00	.00	.00	.00	.00	13.41
(2)	.02	.05	.10	.22	.10	.17	.05	.07	.05	.02	.00	.00	.00	.00	.00	.00	.00	.86
1.1- 1.5	4	15	14	7	8	6	3	4	4	3	3	0	1	0	1	1	0	74
(1)	1.53	5.75	5.36	2.68	3.07	2.30	1.15	1.53	1.53	1.15	1.15	.00	.38	.00	.38	.38	.00	28.35
(2)	.10	.37	.35	.17	.20	.15	.07	.10	.10	.07	.07	.00	.02	.00	.02	.02	.00	1.82
1.6- 2.0	12	24	11	3	4	0	1	1	3	4	0	1	0	0	1	0	0	65
(1)	4.60	9.20	4.21	1.15	1.53	.00	.38	.38	1.15	1.53	.00	.38	.00	.00	.38	.00	.00	24.90
(2)	.30	.59	.27	.07	.10	.00	.02	.02	.07	.10	.00	.02	.00	.00	.02	.00	.00	1.60
2.1- 3.0	21	23	4	0	1	1	0	0	5	4	5	3	0	0	1	0	0	68
(1)	8.05	8.81	1.53	.00	.38	.38	.00	.00	1.92	1.53	1.92	1.15	.00	.00	.38	.00	.00	26.05
(2)	.52	.57	.10	.00	.02	.02	.00	.00	.12	.10	.12	.07	.00	.00	.02	.00	.00	1.68
3.1- 4.0	4	3	0	0	0	0	0	0	1	1	1	2	1	0	2	0	0	15
(1)	1.53	1.15	.00	.00	.00	.00	.00	.00	.38	.38	.38	.77	.38	.00	.77	.00	.00	5.75
(2)	.10	.07	.00	.00	.00	.00	.00	.00	.02	.02	.02	.05	.02	.00	.05	.00	.00	.37
4.1- 5.0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.38	.00	.77	.00	.00	.00	.00	.00	1.15
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.05	.00	.00	.00	.00	.00	.07
5.1- 6.0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.38	.00	.00	.00	.00	.00	.00	.00	.38
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02

Table 2.3-53—{SSES 197' (60-m) 2001-2006 February JFD - continued}

(Page 2 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 6.43**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	42	67	33	19	17	14	6	8	15	15	9	8	2	0	5	1	0	261
(1)	16.09	25.67	12.64	7.28	6.51	5.36	2.30	3.07	5.75	5.75	3.45	3.07	.77	.00	1.92	.38	.00	100.00
(2)	1.04	1.65	.81	.47	.42	.35	.15	.20	.37	.37	.22	.20	.05	.00	.12	.02	.00	6.43

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-53—{SSES 197' (60-m) 2001-2006 February JFD - continued}

(Page 1 of 2)

SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3
(1)	.00	.00	.02	.00	.00	.00	.00	.02	.00	.00	.02	.00	.00	.00	.00	.00	.00	.07
(2)	.00	.00	.02	.00	.00	.00	.00	.02	.00	.00	.02	.00	.00	.00	.00	.00	.00	.07
.5- 1.0	7	18	35	31	27	27	19	21	17	14	8	4	1	2	0	2	0	233
(1)	.17	.44	.86	.76	.67	.67	.47	.52	.42	.35	.20	.10	.02	.05	.00	.05	.00	5.74
(2)	.17	.44	.86	.76	.67	.67	.47	.52	.42	.35	.20	.10	.02	.05	.00	.05	.00	5.74
1.1- 1.5	21	57	61	39	28	19	23	28	29	32	32	9	4	2	2	5	0	391
(1)	.52	1.41	1.50	.96	.69	.47	.57	.69	.71	.79	.79	.22	.10	.05	.05	.12	.00	9.64
(2)	.52	1.41	1.50	.96	.69	.47	.57	.69	.71	.79	.79	.22	.10	.05	.05	.12	.00	9.64
1.6- 2.0	39	111	47	23	18	7	13	10	30	43	46	9	6	3	2	3	0	410
(1)	.96	2.74	1.16	.57	.44	.17	.32	.25	.74	1.06	1.13	.22	.15	.07	.05	.07	.00	10.11
(2)	.96	2.74	1.16	.57	.44	.17	.32	.25	.74	1.06	1.13	.22	.15	.07	.05	.07	.00	10.11
2.1- 3.0	61	96	70	27	23	22	20	17	28	57	91	40	15	16	16	12	0	611
(1)	1.50	2.37	1.73	.67	.57	.54	.49	.42	.69	1.41	2.24	.99	.37	.39	.39	.30	.00	15.06
(2)	1.50	2.37	1.73	.67	.57	.54	.49	.42	.69	1.41	2.24	.99	.37	.39	.39	.30	.00	15.06
3.1- 4.0	46	55	49	12	10	12	19	30	24	30	94	48	28	22	49	26	0	554
(1)	1.13	1.36	1.21	.30	.25	.30	.47	.74	.59	.74	2.32	1.18	.69	.54	1.21	.64	.00	13.66
(2)	1.13	1.36	1.21	.30	.25	.30	.47	.74	.59	.74	2.32	1.18	.69	.54	1.21	.64	.00	13.66
4.1- 5.0	37	33	22	4	1	2	14	21	14	29	83	73	31	27	78	62	0	531
(1)	.91	.81	.54	.10	.02	.05	.35	.52	.35	.71	2.05	1.80	.76	.67	1.92	1.53	.00	13.09
(2)	.91	.81	.54	.10	.02	.05	.35	.52	.35	.71	2.05	1.80	.76	.67	1.92	1.53	.00	13.09
5.1- 6.0	19	30	15	6	4	2	7	10	13	36	61	129	64	24	70	54	0	544
(1)	.47	.74	.37	.15	.10	.05	.17	.25	.32	.89	1.50	3.18	1.58	.59	1.73	1.33	.00	13.41
(2)	.47	.74	.37	.15	.10	.05	.17	.25	.32	.89	1.50	3.18	1.58	.59	1.73	1.33	.00	13.41

Table 2.3-53—{SSES 197' (60-m) 2001-2006 February JFD - continued}

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SSES FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	6	19	6	0	2	1	2	2	15	31	80	184	59	46	75	49	0	577
(1)	.15	.47	.15	.00	.05	.02	.05	.05	.37	.76	1.97	4.54	1.45	1.13	1.85	1.21	.00	14.23
(2)	.15	.47	.15	.00	.05	.02	.05	.05	.37	.76	1.97	4.54	1.45	1.13	1.85	1.21	.00	14.23
8.1-10.0	0	0	0	0	0	1	3	1	2	18	7	77	27	8	14	8	0	166
(1)	.00	.00	.00	.00	.00	.02	.07	.02	.05	.44	.17	1.90	.67	.20	.35	.20	.00	4.09
(2)	.00	.00	.00	.00	.00	.02	.07	.02	.05	.44	.17	1.90	.67	.20	.35	.20	.00	4.09
10.1-40.3	0	0	0	0	0	0	0	0	0	1	0	25	9	1	0	0	0	36
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.62	.22	.02	.00	.00	.00	.89
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.62	.22	.02	.00	.00	.00	.89
ALL SPEEDS	236	419	306	142	113	93	120	141	172	291	503	598	244	151	306	221	0	4056
(1)	5.82	10.33	7.54	3.50	2.79	2.29	2.96	3.48	4.24	7.17	12.40	14.74	6.02	3.72	7.54	5.45	.00	100.00
(2)	5.82	10.33	7.54	3.50	2.79	2.29	2.96	3.48	4.24	7.17	12.40	14.74	6.02	3.72	7.54	5.45	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-54 {SSES 197' (60-m) 2001-2006 March JFD}

(Page 1 of 2)

SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS A — CLASS FREQUENCY (PERCENT) = 5.69

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.39	.39	.00	.00	.00	.00	.00	.00	.00	.00	.79
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.04
1.1- 1.5	0	0	1	0	0	2	2	0	1	1	6	0	1	0	0	0	0	14
(1)	.00	.00	.39	.00	.00	.79	.79	.00	.39	.39	2.36	.00	.39	.00	.00	.00	.00	5.51
(2)	.00	.00	.02	.00	.00	.04	.04	.00	.02	.02	.13	.00	.02	.00	.00	.00	.00	.31
1.6- 2.0	0	0	3	0	0	1	0	1	3	0	0	1	0	0	0	0	0	9
(1)	.00	.00	1.18	.00	.00	.39	.00	.39	1.18	.00	.00	.39	.00	.00	.00	.00	.00	3.54
(2)	.00	.00	.07	.00	.00	.02	.00	.02	.07	.00	.00	.02	.00	.00	.00	.00	.00	.20
2.1- 3.0	0	2	2	1	1	0	1	2	1	10	16	7	0	0	1	1	0	45
(1)	.00	.79	.79	.39	.39	.00	.39	.79	.39	3.94	6.30	2.76	.00	.00	.39	.39	.00	17.72
(2)	.00	.04	.04	.02	.02	.00	.02	.04	.02	.22	.36	.16	.00	.00	.02	.02	.00	1.01
3.1- 4.0	0	2	1	1	0	0	2	1	2	6	5	13	3	2	1	0	0	39
(1)	.00	.79	.39	.39	.00	.00	.79	.39	.79	2.36	1.97	5.12	1.18	.79	.39	.00	.00	15.35
(2)	.00	.04	.02	.02	.00	.00	.04	.02	.04	.13	.11	.29	.07	.04	.02	.00	.00	.87
4.1- 5.0	0	0	2	0	0	1	6	1	1	5	5	5	1	0	0	1	0	28
(1)	.00	.00	.79	.00	.00	.39	2.36	.39	.39	1.97	1.97	1.97	.39	.00	.00	.39	.00	11.02
(2)	.00	.00	.04	.00	.00	.02	.13	.02	.02	.11	.11	.11	.02	.00	.00	.02	.00	.63
5.1- 6.0	0	2	1	0	0	0	9	2	3	8	14	9	2	1	3	0	0	54
(1)	.00	.79	.39	.00	.00	.00	3.54	.79	1.18	3.15	5.51	3.54	.79	.39	1.18	.00	.00	21.26
(2)	.00	.04	.02	.00	.00	.00	.20	.04	.07	.18	.31	.20	.04	.02	.07	.00	.00	1.21

Table 2.3-54 {SSES 197' (60-m) 2001-2006 March JFD}

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SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 5.69**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	1	4	17	11	13	2	0	1	1	0	50
(1)	.00	.00	.00	.00	.00	.00	.00	.39	1.57	6.69	4.33	5.12	.79	.00	.39	.39	.00	19.69
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.09	.38	.25	.29	.04	.00	.02	.02	.00	1.12
8.1-10.0	0	0	0	0	0	0	0	0	0	4	3	3	0	0	0	0	0	10
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.57	1.18	1.18	.00	.00	.00	.00	.00	3.94
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.07	.07	.00	.00	.00	.00	.00	.22
10.1-40.3	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.39	.79	.00	.00	.00	.00	.00	1.18
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.00	.00	.00	.00	.00	.07
ALL SPEEDS	0	6	10	2	1	4	20	9	16	51	61	53	9	3	6	3	0	254
(1)	.00	2.36	3.94	.79	.39	1.57	7.87	3.54	6.30	20.08	24.02	20.87	3.54	1.18	2.36	1.18	.00	100.00
(2)	.00	.13	.22	.04	.02	.09	.45	.20	.36	1.14	1.37	1.19	.20	.07	.13	.07	.00	5.69

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-54—{SSES 197' (60-m) 2001-2006 March JFD - continued}

(Page 1 of 2)

SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.23**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.1- 1.5	0	0	0	0	2	2	0	1	2	1	1	0	0	0	0	0	0	9
(1)	.00	.00	.00	.00	1.39	1.39	.00	.69	1.39	.69	.69	.00	.00	.00	.00	.00	.00	6.25
(2)	.00	.00	.00	.00	.04	.04	.00	.02	.04	.02	.02	.00	.00	.00	.00	.00	.00	.20
1.6- 2.0	0	1	2	1	1	1	0	1	0	1	0	0	1	0	0	0	0	9
(1)	.00	.69	1.39	.69	.69	.69	.00	.69	.00	.69	.00	.00	.69	.00	.00	.00	.00	6.25
(2)	.00	.02	.04	.02	.02	.02	.00	.02	.00	.02	.00	.00	.02	.00	.00	.00	.00	.20
2.1- 3.0	2	1	1	0	0	0	0	2	0	2	1	1	0	1	1	0	0	12
(1)	1.39	.69	.69	.00	.00	.00	.00	1.39	.00	1.39	.69	.69	.00	.69	.69	.00	.00	8.33
(2)	.04	.02	.02	.00	.00	.00	.00	.04	.00	.04	.02	.02	.00	.02	.02	.00	.00	.27
3.1- 4.0	2	0	3	0	0	0	2	3	2	1	5	3	1	0	0	2	0	24
(1)	1.39	.00	2.08	.00	.00	.00	1.39	2.08	1.39	.69	3.47	2.08	.69	.00	.00	1.39	.00	16.67
(2)	.04	.00	.07	.00	.00	.00	.04	.07	.04	.02	.11	.07	.02	.00	.00	.04	.00	.54
4.1- 5.0	0	0	0	0	2	1	1	2	4	3	5	2	0	3	1	2	0	26
(1)	.00	.00	.00	.00	1.39	.69	.69	1.39	2.78	2.08	3.47	1.39	.00	2.08	.69	1.39	.00	18.06
(2)	.00	.00	.00	.00	.04	.02	.02	.04	.09	.07	.11	.04	.00	.07	.02	.04	.00	.58
5.1- 6.0	1	0	0	0	0	0	1	0	1	3	2	3	2	1	4	4	0	22
(1)	.69	.00	.00	.00	.00	.00	.69	.00	.69	2.08	1.39	2.08	1.39	.69	2.78	2.78	.00	15.28
(2)	.02	.00	.00	.00	.00	.00	.02	.00	.02	.07	.04	.07	.04	.02	.09	.09	.00	.49

Table 2.3-54—{SSES 197' (60-m) 2001-2006 March JFD - continued}

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SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.23**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	1	1	9	15	5	0	2	0	0	33
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.69	.69	6.25	10.42	3.47	.00	1.39	.00	.00	22.92
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.20	.34	.11	.00	.04	.00	.00	.74
8.1-10.0	0	0	0	0	0	0	0	0	0	1	1	3	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.69	.69	2.08	.00	.00	.00	.00	.00	3.47
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.07	.00	.00	.00	.00	.00	.11
10.1-40.3	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.78	.00	.00	.00	.00	.00	.00	2.78
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.09
ALL SPEEDS	5	2	6	1	5	4	4	9	10	13	28	27	9	5	8	8	0	144
(1)	3.47	1.39	4.17	.69	3.47	2.78	2.78	6.25	6.94	9.03	19.44	18.75	6.25	3.47	5.56	5.56	.00	100.00
(2)	.11	.04	.13	.02	.11	.09	.09	.20	.22	.29	.63	.60	.20	.11	.18	.18	.00	3.23

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-54—{SSES 197' (60-m) 2001-2006 March JFD - continued}

(Page 1 of 2)

SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS C — CLASS FREQUENCY (PERCENT) = 3.92

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	1	1	0	0	1	1	0	0	0	1	0	0	0	0	5
(1)	.00	.00	.00	.57	.57	.00	.00	.57	.57	.00	.00	.00	.57	.00	.00	.00	.00	2.86
(2)	.00	.00	.00	.02	.02	.00	.00	.02	.02	.00	.00	.00	.02	.00	.00	.00	.00	.11
1.1- 1.5	0	0	0	2	1	0	0	0	0	4	1	0	0	0	0	0	0	8
(1)	.00	.00	.00	1.14	.57	.00	.00	.00	.00	2.29	.57	.00	.00	.00	.00	.00	.00	4.57
(2)	.00	.00	.00	.04	.02	.00	.00	.00	.00	.09	.02	.00	.00	.00	.00	.00	.00	.18
1.6- 2.0	1	1	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	6
(1)	.57	.57	.00	.57	.00	.00	.00	.00	.00	1.71	.00	.00	.00	.00	.00	.00	.00	3.43
(2)	.02	.02	.00	.02	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00	.00	.13
2.1- 3.0	0	1	4	1	0	0	0	0	0	3	3	4	0	0	0	0	0	16
(1)	.00	.57	2.29	.57	.00	.00	.00	.00	.00	1.71	1.71	2.29	.00	.00	.00	.00	.00	9.14
(2)	.00	.02	.09	.02	.00	.00	.00	.00	.00	.07	.07	.09	.00	.00	.00	.00	.00	.36
3.1- 4.0	3	6	2	0	0	0	1	1	0	1	3	12	2	0	1	0	0	32
(1)	1.71	3.43	1.14	.00	.00	.00	.57	.57	.00	.57	1.71	6.86	1.14	.00	.57	.00	.00	18.29
(2)	.07	.13	.04	.00	.00	.00	.02	.02	.00	.02	.07	.27	.04	.00	.02	.00	.00	.72
4.1- 5.0	3	1	1	0	1	0	2	1	1	0	4	8	3	1	6	4	0	36
(1)	1.71	.57	.57	.00	.57	.00	1.14	.57	.57	.00	2.29	4.57	1.71	.57	3.43	2.29	.00	20.57
(2)	.07	.02	.02	.00	.02	.00	.04	.02	.02	.00	.09	.18	.07	.02	.13	.09	.00	.81
5.1- 6.0	4	1	1	0	0	0	2	0	2	1	0	7	5	1	2	5	0	31
(1)	2.29	.57	.57	.00	.00	.00	1.14	.00	1.14	.57	.00	4.00	2.86	.57	1.14	2.86	.00	17.71
(2)	.09	.02	.02	.00	.00	.00	.04	.00	.04	.02	.00	.16	.11	.02	.04	.11	.00	.69

Table 2.3-54—{SSES 197' (60-m) 2001-2006 March JFD - continued}

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SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 3.92**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	1	1	3	2	1	7	3	1	6	1	0	26
(1)	.00	.00	.00	.00	.00	.00	.57	.57	1.71	1.14	.57	4.00	1.71	.57	3.43	.57	.00	14.86
(2)	.00	.00	.00	.00	.00	.00	.02	.02	.07	.04	.02	.16	.07	.02	.13	.02	.00	.58
8.1-10.0	0	0	0	0	0	0	0	0	0	0	2	8	1	0	0	1	0	12
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.14	4.57	.57	.00	.00	.57	.00	6.86
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.18	.02	.00	.00	.02	.00	.27
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.71	.00	.00	.00	.00	.00	1.71
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.07
ALL SPEEDS	11	10	8	5	3	0	6	4	7	14	14	49	15	3	15	11	0	175
(1)	6.29	5.71	4.57	2.86	1.71	.00	3.43	2.29	4.00	8.00	8.00	28.00	8.57	1.71	8.57	6.29	.00	100.00
(2)	.25	.22	.18	.11	.07	.00	.13	.09	.16	.31	.31	1.10	.34	.07	.34	.25	.00	3.92

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-54—{SSES 197' (60-m) 2001-2006 March JFD - continued}

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SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 46.53**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.05	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.10
(2)	.00	.00	.00	.02	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.04
.5- 1.0	4	8	3	4	6	6	9	5	3	3	2	2	1	2	0	2	0	60
(1)	.19	.39	.14	.19	.29	.29	.43	.24	.14	.14	.10	.10	.05	.10	.00	.10	.00	2.89
(2)	.09	.18	.07	.09	.13	.13	.20	.11	.07	.07	.04	.04	.02	.04	.00	.04	.00	1.34
1.1- 1.5	5	12	11	6	4	3	2	3	7	11	7	2	0	1	2	3	0	79
(1)	.24	.58	.53	.29	.19	.14	.10	.14	.34	.53	.34	.10	.00	.05	.10	.14	.00	3.80
(2)	.11	.27	.25	.13	.09	.07	.04	.07	.16	.25	.16	.04	.00	.02	.04	.07	.00	1.77
1.6- 2.0	5	4	8	6	7	4	3	6	4	6	21	6	0	2	3	0	0	85
(1)	.24	.19	.39	.29	.34	.19	.14	.29	.19	.29	1.01	.29	.00	.10	.14	.00	.00	4.09
(2)	.11	.09	.18	.13	.16	.09	.07	.13	.09	.13	.47	.13	.00	.04	.07	.00	.00	1.90
2.1- 3.0	22	21	22	19	10	16	11	11	6	14	29	26	14	21	16	14	0	272
(1)	1.06	1.01	1.06	.91	.48	.77	.53	.53	.29	.67	1.40	1.25	.67	1.01	.77	.67	.00	13.10
(2)	.49	.47	.49	.43	.22	.36	.25	.25	.13	.31	.65	.58	.31	.47	.36	.31	.00	6.09
3.1- 4.0	34	37	35	9	13	10	13	13	5	7	21	29	24	33	51	42	0	376
(1)	1.64	1.78	1.69	.43	.63	.48	.63	.63	.24	.34	1.01	1.40	1.16	1.59	2.46	2.02	.00	18.10
(2)	.76	.83	.78	.20	.29	.22	.29	.29	.11	.16	.47	.65	.54	.74	1.14	.94	.00	8.42
4.1- 5.0	39	34	21	6	9	7	19	9	8	5	16	35	35	52	58	54	0	407
(1)	1.88	1.64	1.01	.29	.43	.34	.91	.43	.39	.24	.77	1.69	1.69	2.50	2.79	2.60	.00	19.60
(2)	.87	.76	.47	.13	.20	.16	.43	.20	.18	.11	.36	.78	.78	1.16	1.30	1.21	.00	9.12
5.1- 6.0	27	23	18	3	1	4	9	15	11	7	8	40	26	31	49	36	0	308
(1)	1.30	1.11	.87	.14	.05	.19	.43	.72	.53	.34	.39	1.93	1.25	1.49	2.36	1.73	.00	14.83
(2)	.60	.52	.40	.07	.02	.09	.20	.34	.25	.16	.18	.90	.58	.69	1.10	.81	.00	6.90

Table 2.3-54—{SSES 197' (60-m) 2001-2006 March JFD - continued}

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SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 46.53**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	7	13	15	5	0	4	3	15	14	12	8	62	72	54	50	26	0	360
(1)	.34	.63	.72	.24	.00	.19	.14	.72	.67	.58	.39	2.99	3.47	2.60	2.41	1.25	.00	17.33
(2)	.16	.29	.34	.11	.00	.09	.07	.34	.31	.27	.18	1.39	1.61	1.21	1.12	.58	.00	8.06
8.1-10.0	0	3	0	0	0	2	0	1	4	5	2	20	40	8	4	5	0	94
(1)	.00	.14	.00	.00	.00	.10	.00	.05	.19	.24	.10	.96	1.93	.39	.19	.24	.00	4.53
(2)	.00	.07	.00	.00	.00	.04	.00	.02	.09	.11	.04	.45	.90	.18	.09	.11	.00	2.11
10.1-40.3	0	2	1	0	0	0	0	0	0	3	2	10	15	1	0	0	0	34
(1)	.00	.10	.05	.00	.00	.00	.00	.00	.00	.14	.10	.48	.72	.05	.00	.00	.00	1.64
(2)	.00	.04	.02	.00	.00	.00	.00	.00	.00	.07	.04	.22	.34	.02	.00	.00	.00	.76
ALL SPEEDS	143	157	134	59	50	56	69	78	63	73	116	232	227	205	233	182	0	2077
(1)	6.88	7.56	6.45	2.84	2.41	2.70	3.32	3.76	3.03	3.51	5.58	11.17	10.93	9.87	11.22	8.76	.00	100.00
(2)	3.20	3.52	3.00	1.32	1.12	1.25	1.55	1.75	1.41	1.64	2.60	5.20	5.09	4.59	5.22	4.08	.00	46.53

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-54—{SSES 197' (60-m) 2001-2006 March JFD - continued}

(Page 1 of 2)

SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS E — CLASS FREQUENCY (PERCENT) = 23.77

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.09	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19
(2)	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
.5- 1.0	6	10	14	11	9	4	12	10	12	5	8	6	3	0	1	2	0	113
(1)	.57	.94	1.32	1.04	.85	.38	1.13	.94	1.13	.47	.75	.57	.28	.00	.09	.19	.00	10.65
(2)	.13	.22	.31	.25	.20	.09	.27	.22	.27	.11	.18	.13	.07	.00	.02	.04	.00	2.53
1.1- 1.5	7	15	13	5	6	6	13	7	11	10	16	11	5	0	3	3	0	131
(1)	.66	1.41	1.23	.47	.57	.57	1.23	.66	1.04	.94	1.51	1.04	.47	.00	.28	.28	.00	12.35
(2)	.16	.34	.29	.11	.13	.13	.29	.16	.25	.22	.36	.25	.11	.00	.07	.07	.00	2.93
1.6- 2.0	10	19	10	5	6	1	5	6	6	9	15	16	4	3	4	5	0	124
(1)	.94	1.79	.94	.47	.57	.09	.47	.57	.57	.85	1.41	1.51	.38	.28	.38	.47	.00	11.69
(2)	.22	.43	.22	.11	.13	.02	.11	.13	.13	.20	.34	.36	.09	.07	.09	.11	.00	2.78
2.1- 3.0	23	35	13	10	8	8	7	13	14	13	26	17	16	12	4	7	0	226
(1)	2.17	3.30	1.23	.94	.75	.75	.66	1.23	1.32	1.23	2.45	1.60	1.51	1.13	.38	.66	.00	21.30
(2)	.52	.78	.29	.22	.18	.18	.16	.29	.31	.29	.58	.38	.36	.27	.09	.16	.00	5.06
3.1- 4.0	14	30	16	1	6	5	4	8	5	13	19	29	18	4	9	6	0	187
(1)	1.32	2.83	1.51	.09	.57	.47	.38	.75	.47	1.23	1.79	2.73	1.70	.38	.85	.57	.00	17.62
(2)	.31	.67	.36	.02	.13	.11	.09	.18	.11	.29	.43	.65	.40	.09	.20	.13	.00	4.19
4.1- 5.0	8	19	13	3	1	3	2	6	5	11	12	21	6	2	10	4	0	126
(1)	.75	1.79	1.23	.28	.09	.28	.19	.57	.47	1.04	1.13	1.98	.57	.19	.94	.38	.00	11.88
(2)	.18	.43	.29	.07	.02	.07	.04	.13	.11	.25	.27	.47	.13	.04	.22	.09	.00	2.82
5.1- 6.0	2	18	7	2	1	1	0	4	5	7	8	18	2	2	1	1	0	79
(1)	.19	1.70	.66	.19	.09	.09	.00	.38	.47	.66	.75	1.70	.19	.19	.09	.09	.00	7.45
(2)	.04	.40	.16	.04	.02	.02	.00	.09	.11	.16	.18	.40	.04	.04	.02	.02	.00	1.77

Table 2.3-54—{SSES 197' (60-m) 2001-2006 March JFD - continued}

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SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 23.77**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	4	7	8	0	0	2	2	0	11	11	3	10	1	4	0	1	0	64
(1)	.38	.66	.75	.00	.00	.19	.19	.00	1.04	1.04	.28	.94	.09	.38	.00	.09	.00	6.03
(2)	.09	.16	.18	.00	.00	.04	.04	.00	.25	.25	.07	.22	.02	.09	.00	.02	.00	1.43
8.1-10.0	0	0	0	0	0	0	1	0	0	2	1	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.09	.00	.00	.19	.09	.00	.00	.00	.00	.00	.00	.38
(2)	.00	.00	.00	.00	.00	.00	.02	.00	.00	.04	.02	.00	.00	.00	.00	.00	.00	.09
10.1-40.3	0	0	0	0	0	0	0	0	4	0	1	0	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.38	.00	.09	.00	.00	.00	.00	.00	.00	.47
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.02	.00	.00	.00	.00	.00	.00	.11
ALL SPEEDS	74	153	94	37	37	30	47	55	73	81	109	128	55	27	32	29	0	1061
(1)	6.97	14.42	8.86	3.49	3.49	2.83	4.43	5.18	6.88	7.63	10.27	12.06	5.18	2.54	3.02	2.73	.00	100.00
(2)	1.66	3.43	2.11	.83	.83	.67	1.05	1.23	1.64	1.81	2.44	2.87	1.23	.60	.72	.65	.00	23.77

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-54—{SSES 197' (60-m) 2001-2006 March JFD - continued}

(Page 1 of 2)

SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 9.12**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	4	7	14	11	10	5	5	4	5	4	2	0	2	1	1	1	0	76
(1)	.98	1.72	3.44	2.70	2.46	1.23	1.23	.98	1.23	.98	.49	.00	.49	.25	.25	.25	.00	18.67
(2)	.09	.16	.31	.25	.22	.11	.11	.09	.11	.09	.04	.00	.04	.02	.02	.02	.00	1.70
1.1- 1.5	13	35	15	3	5	1	9	3	5	4	8	2	1	0	0	0	0	104
(1)	3.19	8.60	3.69	.74	1.23	.25	2.21	.74	1.23	.98	1.97	.49	.25	.00	.00	.00	.00	25.55
(2)	.29	.78	.34	.07	.11	.02	.20	.07	.11	.09	.18	.04	.02	.00	.00	.00	.00	2.33
1.6- 2.0	8	25	11	5	2	1	3	1	1	6	3	1	1	1	1	0	0	70
(1)	1.97	6.14	2.70	1.23	.49	.25	.74	.25	.25	1.47	.74	.25	.25	.25	.25	.00	.00	17.20
(2)	.18	.56	.25	.11	.04	.02	.07	.02	.02	.13	.07	.02	.02	.02	.02	.00	.00	1.57
2.1- 3.0	15	28	18	0	0	1	5	3	1	7	13	4	2	1	2	0	0	100
(1)	3.69	6.88	4.42	.00	.00	.25	1.23	.74	.25	1.72	3.19	.98	.49	.25	.49	.00	.00	24.57
(2)	.34	.63	.40	.00	.00	.02	.11	.07	.02	.16	.29	.09	.04	.02	.04	.00	.00	2.24
3.1- 4.0	3	1	4	0	1	1	2	0	0	3	7	9	2	0	3	0	0	36
(1)	.74	.25	.98	.00	.25	.25	.49	.00	.00	.74	1.72	2.21	.49	.00	.74	.00	.00	8.85
(2)	.07	.02	.09	.00	.02	.02	.04	.00	.00	.07	.16	.20	.04	.00	.07	.00	.00	.81
4.1- 5.0	0	1	1	0	0	0	0	0	0	1	1	6	0	0	0	0	0	10
(1)	.00	.25	.25	.00	.00	.00	.00	.00	.00	.25	.25	1.47	.00	.00	.00	.00	.00	2.46
(2)	.00	.02	.02	.00	.00	.00	.00	.00	.00	.02	.02	.13	.00	.00	.00	.00	.00	.22
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	2	7	0	0	0	0	0	9
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.49	1.72	.00	.00	.00	.00	.00	2.21
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.16	.00	.00	.00	.00	.00	.20

Table 2.3-54—{SSES 197' (60-m) 2001-2006 March JFD - continued}

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SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 9.12**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25	.00	.00	.00	.00	.00	.25
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	44	97	63	19	18	9	24	11	12	25	36	30	8	3	7	1	0	407
(1)	10.81	23.83	15.48	4.67	4.42	2.21	5.90	2.70	2.95	6.14	8.85	7.37	1.97	.74	1.72	.25	.00	100.00
(2)	.99	2.17	1.41	.43	.40	.20	.54	.25	.27	.56	.81	.67	.18	.07	.16	.02	.00	9.12

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-54—{SSES 197' (60-m) 2001-2006 March JFD - continued}

(Page 1 of 2)

SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 7.75**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	2
(1)	.00	.00	.00	.00	.29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.29	.00	.00	.58
(2)	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.04
.5- 1.0	2	2	7	9	7	7	3	6	3	2	1	0	0	1	0	2	0	52
(1)	.58	.58	2.02	2.60	2.02	2.02	.87	1.73	.87	.58	.29	.00	.00	.29	.00	.58	.00	15.03
(2)	.04	.04	.16	.20	.16	.16	.07	.13	.07	.04	.02	.00	.00	.02	.00	.04	.00	1.16
1.1- 1.5	2	20	21	6	5	5	3	3	4	4	2	1	1	0	0	2	0	79
(1)	.58	5.78	6.07	1.73	1.45	1.45	.87	.87	1.16	1.16	.58	.29	.29	.00	.00	.58	.00	22.83
(2)	.04	.45	.47	.13	.11	.11	.07	.07	.09	.09	.04	.02	.02	.00	.00	.04	.00	1.77
1.6- 2.0	12	34	16	6	1	0	2	0	3	4	2	0	0	0	0	0	0	80
(1)	3.47	9.83	4.62	1.73	.29	.00	.58	.00	.87	1.16	.58	.00	.00	.00	.00	.00	.00	23.12
(2)	.27	.76	.36	.13	.02	.00	.04	.00	.07	.09	.04	.00	.00	.00	.00	.00	.00	1.79
2.1- 3.0	32	33	11	2	0	0	3	0	5	8	7	2	0	0	2	1	0	106
(1)	9.25	9.54	3.18	.58	.00	.00	.87	.00	1.45	2.31	2.02	.58	.00	.00	.58	.29	.00	30.64
(2)	.72	.74	.25	.04	.00	.00	.07	.00	.11	.18	.16	.04	.00	.00	.04	.02	.00	2.37
3.1- 4.0	8	3	0	0	0	0	2	0	1	3	1	0	0	0	0	0	0	18
(1)	2.31	.87	.00	.00	.00	.00	.58	.00	.29	.87	.29	.00	.00	.00	.00	.00	.00	5.20
(2)	.18	.07	.00	.00	.00	.00	.04	.00	.02	.07	.02	.00	.00	.00	.00	.00	.00	.40
4.1- 5.0	1	0	0	0	0	0	0	1	0	2	0	2	0	0	0	0	0	6
(1)	.29	.00	.00	.00	.00	.00	.00	.29	.00	.58	.00	.58	.00	.00	.00	.00	.00	1.73
(2)	.02	.00	.00	.00	.00	.00	.00	.02	.00	.04	.00	.04	.00	.00	.00	.00	.00	.13
5.1- 6.0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.29	.00	.00	.29	.29	.00	.00	.00	.00	.00	.87
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02	.02	.00	.00	.00	.00	.00	.07

Table 2.3-54—{SSES 197' (60-m) 2001-2006 March JFD - continued}

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SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 7.75**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	57	92	55	23	14	12	13	11	16	23	14	6	1	1	3	5	0	346
(1)	16.47	26.59	15.90	6.65	4.05	3.47	3.76	3.18	4.62	6.65	4.05	1.73	.29	.29	.87	1.45	.00	100.00
(2)	1.28	2.06	1.23	.52	.31	.27	.29	.25	.36	.52	.31	.13	.02	.02	.07	.11	.00	7.75

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-54—{SSES 197' (60-m) 2001-2006 March JFD - continued}

(Page 1 of 2)

SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	1	0	0	1	1	0	1	1	1	0	0	0	0	0	1	0	0	7
(1)	.02	.00	.00	.02	.02	.00	.02	.02	.02	.00	.00	.00	.00	.00	.02	.00	.00	.16
(2)	.02	.00	.00	.02	.02	.00	.02	.02	.02	.00	.00	.00	.00	.00	.02	.00	.00	.16
.5- 1.0	16	27	38	36	33	22	29	27	25	14	13	8	7	4	2	7	0	308
(1)	.36	.60	.85	.81	.74	.49	.65	.60	.56	.31	.29	.18	.16	.09	.04	.16	.00	6.90
(2)	.36	.60	.85	.81	.74	.49	.65	.60	.56	.31	.29	.18	.16	.09	.04	.16	.00	6.90
1.1- 1.5	27	82	61	22	23	19	29	17	30	35	41	16	8	1	5	8	0	424
(1)	.60	1.84	1.37	.49	.52	.43	.65	.38	.67	.78	.92	.36	.18	.02	.11	.18	.00	9.50
(2)	.60	1.84	1.37	.49	.52	.43	.65	.38	.67	.78	.92	.36	.18	.02	.11	.18	.00	9.50
1.6- 2.0	36	84	50	24	17	8	13	15	17	29	41	24	6	6	8	5	0	383
(1)	.81	1.88	1.12	.54	.38	.18	.29	.34	.38	.65	.92	.54	.13	.13	.18	.11	.00	8.58
(2)	.81	1.88	1.12	.54	.38	.18	.29	.34	.38	.65	.92	.54	.13	.13	.18	.11	.00	8.58
2.1- 3.0	94	121	71	33	19	25	27	31	27	57	95	61	32	35	26	23	0	777
(1)	2.11	2.71	1.59	.74	.43	.56	.60	.69	.60	1.28	2.13	1.37	.72	.78	.58	.52	.00	17.41
(2)	2.11	2.71	1.59	.74	.43	.56	.60	.69	.60	1.28	2.13	1.37	.72	.78	.58	.52	.00	17.41
3.1- 4.0	64	79	61	11	20	16	26	26	15	34	61	95	50	39	65	50	0	712
(1)	1.43	1.77	1.37	.25	.45	.36	.58	.58	.34	.76	1.37	2.13	1.12	.87	1.46	1.12	.00	15.95
(2)	1.43	1.77	1.37	.25	.45	.36	.58	.58	.34	.76	1.37	2.13	1.12	.87	1.46	1.12	.00	15.95
4.1- 5.0	51	55	38	9	13	12	30	20	19	27	43	79	45	58	75	65	0	639
(1)	1.14	1.23	.85	.20	.29	.27	.67	.45	.43	.60	.96	1.77	1.01	1.30	1.68	1.46	.00	14.31
(2)	1.14	1.23	.85	.20	.29	.27	.67	.45	.43	.60	.96	1.77	1.01	1.30	1.68	1.46	.00	14.31
5.1- 6.0	34	44	27	5	2	5	21	22	22	26	35	85	37	36	59	46	0	506
(1)	.76	.99	.60	.11	.04	.11	.47	.49	.49	.58	.78	1.90	.83	.81	1.32	1.03	.00	11.34
(2)	.76	.99	.60	.11	.04	.11	.47	.49	.49	.58	.78	1.90	.83	.81	1.32	1.03	.00	11.34

Table 2.3-54—{SSES 197' (60-m) 2001-2006 March JFD - continued}

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SSES MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	11	20	23	5	0	6	6	17	33	43	32	108	83	59	59	29	0	534
(1)	.25	.45	.52	.11	.00	.13	.13	.38	.74	.96	.72	2.42	1.86	1.32	1.32	.65	.00	11.96
(2)	.25	.45	.52	.11	.00	.13	.13	.38	.74	.96	.72	2.42	1.86	1.32	1.32	.65	.00	11.96
8.1-10.0	0	3	0	0	0	2	1	1	4	12	9	34	41	8	4	6	0	125
(1)	.00	.07	.00	.00	.00	.04	.02	.02	.09	.27	.20	.76	.92	.18	.09	.13	.00	2.80
(2)	.00	.07	.00	.00	.00	.04	.02	.02	.09	.27	.20	.76	.92	.18	.09	.13	.00	2.80
10.1-40.3	0	2	1	0	0	0	0	0	4	3	8	15	15	1	0	0	0	49
(1)	.00	.04	.02	.00	.00	.00	.00	.00	.09	.07	.18	.34	.34	.02	.00	.00	.00	1.10
(2)	.00	.04	.02	.00	.00	.00	.00	.00	.09	.07	.18	.34	.34	.02	.00	.00	.00	1.10
ALL SPEEDS	334	517	370	146	128	115	183	177	197	280	378	525	324	247	304	239	0	4464
(1)	7.48	11.58	8.29	3.27	2.87	2.58	4.10	3.97	4.41	6.27	8.47	11.76	7.26	5.53	6.81	5.35	.00	100.00
(2)	7.48	11.58	8.29	3.27	2.87	2.58	4.10	3.97	4.41	6.27	8.47	11.76	7.26	5.53	6.81	5.35	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-55 {SSES 197' (60-m) 2001-2006 April JFD}

(Page 1 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA | **STABILITY CLASS A** | **CLASS FREQUENCY (PERCENT) = 8.78**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.26
(2)	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
1.1- 1.5	0	0	0	3	1	2	1	0	1	2	1	2	0	0	0	0	0	13
(1)	.00	.00	.00	.79	.26	.53	.26	.00	.26	.53	.26	.53	.00	.00	.00	.00	.00	3.44
(2)	.00	.00	.00	.07	.02	.05	.02	.00	.02	.05	.02	.05	.00	.00	.00	.00	.00	.30
1.6- 2.0	0	1	1	2	0	1	2	2	2	4	2	2	0	1	0	0	0	20
(1)	.00	.26	.26	.53	.00	.26	.53	.53	.53	1.06	.53	.53	.00	.26	.00	.00	.00	5.29
(2)	.00	.02	.02	.05	.00	.02	.05	.05	.05	.09	.05	.05	.00	.02	.00	.00	.00	.46
2.1- 3.0	1	1	3	4	4	2	1	1	5	11	13	3	0	0	0	1	0	50
(1)	.26	.26	.79	1.06	1.06	.53	.26	.26	1.32	2.91	3.44	.79	.00	.00	.00	.26	.00	13.23
(2)	.02	.02	.07	.09	.09	.05	.02	.02	.12	.26	.30	.07	.00	.00	.00	.02	.00	1.16
3.1- 4.0	2	10	4	0	1	1	1	2	8	13	22	5	0	1	0	0	0	70
(1)	.53	2.65	1.06	.00	.26	.26	.26	.53	2.12	3.44	5.82	1.32	.00	.26	.00	.00	.00	18.52
(2)	.05	.23	.09	.00	.02	.02	.02	.05	.19	.30	.51	.12	.00	.02	.00	.00	.00	1.63
4.1- 5.0	8	20	4	0	0	0	1	0	0	8	16	9	1	3	1	2	0	73
(1)	2.12	5.29	1.06	.00	.00	.00	.26	.00	.00	2.12	4.23	2.38	.26	.79	.26	.53	.00	19.31
(2)	.19	.46	.09	.00	.00	.00	.02	.00	.00	.19	.37	.21	.02	.07	.02	.05	.00	1.70
5.1- 6.0	2	16	2	0	0	0	3	2	1	6	18	8	2	1	0	3	0	64
(1)	.53	4.23	.53	.00	.00	.00	.79	.53	.26	1.59	4.76	2.12	.53	.26	.00	.79	.00	16.93
(2)	.05	.37	.05	.00	.00	.00	.07	.05	.02	.14	.42	.19	.05	.02	.00	.07	.00	1.49

Table 2.3-55 {SSES 197' (60-m) 2001-2006 April JFD}

(Page 2 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 8.78**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	5	1	0	0	0	4	3	4	9	21	22	1	0	1	2	0	74
(1)	.26	1.32	.26	.00	.00	.00	1.06	.79	1.06	2.38	5.56	5.82	.26	.00	.26	.53	.00	19.58
(2)	.02	.12	.02	.00	.00	.00	.09	.07	.09	.21	.49	.51	.02	.00	.02	.05	.00	1.72
8.1-10.0	1	1	0	0	0	1	0	1	1	1	2	2	0	0	1	0	0	11
(1)	.26	.26	.00	.00	.00	.26	.00	.26	.26	.26	.53	.53	.00	.00	.26	.00	.00	2.91
(2)	.02	.02	.00	.00	.00	.02	.00	.02	.02	.02	.05	.05	.00	.00	.02	.00	.00	.26
10.1-40.3	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.26	.00	.00	.26	.00	.00	.00	.00	.00	.53
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02	.00	.00	.00	.00	.00	.05
ALL SPEEDS	15	54	15	9	6	8	13	11	23	54	95	54	4	6	3	8	0	378
(1)	3.97	14.29	3.97	2.38	1.59	2.12	3.44	2.91	6.08	14.29	25.13	14.29	1.06	1.59	.79	2.12	.00	100.00
(2)	.35	1.25	.35	.21	.14	.19	.30	.26	.53	1.25	2.21	1.25	.09	.14	.07	.19	.00	8.78

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-55—{SSES 197' (60-m) 2001-2006 April JFD - continued}

(Page 1 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.65**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	4
(1)	.00	.00	1.27	.00	.64	.00	.64	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.55
(2)	.00	.00	.05	.00	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
1.1- 1.5	0	0	0	0	0	0	1	0	1	2	0	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.64	.00	.64	1.27	.00	.00	.00	.00	.00	.00	.00	2.55
(2)	.00	.00	.00	.00	.00	.00	.02	.00	.02	.05	.00	.00	.00	.00	.00	.00	.00	.09
1.6- 2.0	0	0	2	0	0	2	0	0	1	0	1	0	0	0	0	0	0	6
(1)	.00	.00	1.27	.00	.00	1.27	.00	.00	.64	.00	.64	.00	.00	.00	.00	.00	.00	3.82
(2)	.00	.00	.05	.00	.00	.05	.00	.00	.02	.00	.02	.00	.00	.00	.00	.00	.00	.14
2.1- 3.0	2	0	3	0	1	1	2	1	0	3	1	1	0	0	0	0	0	15
(1)	1.27	.00	1.91	.00	.64	.64	1.27	.64	.00	1.91	.64	.64	.00	.00	.00	.00	.00	9.55
(2)	.05	.00	.07	.00	.02	.02	.05	.02	.00	.07	.02	.02	.00	.00	.00	.00	.00	.35
3.1- 4.0	0	6	0	0	0	1	0	0	0	2	4	3	0	1	0	0	0	17
(1)	.00	3.82	.00	.00	.00	.64	.00	.00	.00	1.27	2.55	1.91	.00	.64	.00	.00	.00	10.83
(2)	.00	.14	.00	.00	.00	.02	.00	.00	.00	.05	.09	.07	.00	.02	.00	.00	.00	.39
4.1- 5.0	2	8	2	1	1	0	0	0	0	2	4	4	0	2	2	2	0	30
(1)	1.27	5.10	1.27	.64	.64	.00	.00	.00	.00	1.27	2.55	2.55	.00	1.27	1.27	1.27	.00	19.11
(2)	.05	.19	.05	.02	.02	.00	.00	.00	.00	.05	.09	.09	.00	.05	.05	.05	.00	.70
5.1- 6.0	3	3	2	0	1	0	1	0	2	2	5	1	0	3	2	2	0	27
(1)	1.91	1.91	1.27	.00	.64	.00	.64	.00	1.27	1.27	3.18	.64	.00	1.91	1.27	1.27	.00	17.20
(2)	.07	.07	.05	.00	.02	.00	.02	.00	.05	.05	.12	.02	.00	.07	.05	.05	.00	.63

Table 2.3-55—{SSES 197' (60-m) 2001-2006 April JFD - continued}

(Page 2 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.65**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	3	4	1	0	0	1	3	1	2	0	4	13	3	0	5	5	0	45
(1)	1.91	2.55	.64	.00	.00	.64	1.91	.64	1.27	.00	2.55	8.28	1.91	.00	3.18	3.18	.00	28.66
(2)	.07	.09	.02	.00	.00	.02	.07	.02	.05	.00	.09	.30	.07	.00	.12	.12	.00	1.05
8.1-10.0	0	1	0	0	0	0	0	0	1	0	0	3	0	0	2	0	0	7
(1)	.00	.64	.00	.00	.00	.00	.00	.00	.64	.00	.00	1.91	.00	.00	1.27	.00	.00	4.46
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.02	.00	.00	.07	.00	.00	.05	.00	.00	.16
10.1-40.3	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.64	.64	.00	.00	.00	.00	.00	1.27
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.05
ALL SPEEDS	10	22	12	1	4	5	8	2	7	11	20	26	3	6	11	9	0	157
(1)	6.37	14.01	7.64	.64	2.55	3.18	5.10	1.27	4.46	7.01	12.74	16.56	1.91	3.82	7.01	5.73	.00	100.00
(2)	.23	.51	.28	.02	.09	.12	.19	.05	.16	.26	.46	.60	.07	.14	.26	.21	.00	3.65

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-55—{SSES 197' (60-m) 2001-2006 April JFD - continued}

(Page 1 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 4.97**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	1	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	4
(1)	.00	.47	.00	.93	.00	.00	.00	.00	.00	.47	.00	.00	.00	.00	.00	.00	.00	1.87
(2)	.00	.02	.00	.05	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.09
1.1- 1.5	0	0	1	1	0	0	1	0	1	1	0	0	0	0	0	0	0	5
(1)	.00	.00	.47	.47	.00	.00	.47	.00	.47	.47	.00	.00	.00	.00	.00	.00	.00	2.34
(2)	.00	.00	.02	.02	.00	.00	.02	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.12
1.6- 2.0	1	0	0	1	4	0	3	0	0	1	0	0	0	0	0	0	0	10
(1)	.47	.00	.00	.47	1.87	.00	1.40	.00	.00	.47	.00	.00	.00	.00	.00	.00	.00	4.67
(2)	.02	.00	.00	.02	.09	.00	.07	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.23
2.1- 3.0	0	4	3	1	1	2	1	0	4	3	4	4	1	0	0	0	0	28
(1)	.00	1.87	1.40	.47	.47	.93	.47	.00	1.87	1.40	1.87	1.87	.47	.00	.00	.00	.00	13.08
(2)	.00	.09	.07	.02	.02	.05	.02	.00	.09	.07	.09	.09	.02	.00	.00	.00	.00	.65
3.1- 4.0	3	6	5	1	0	0	1	2	3	1	2	0	1	1	0	1	0	27
(1)	1.40	2.80	2.34	.47	.00	.00	.47	.93	1.40	.47	.93	.00	.47	.47	.00	.47	.00	12.62
(2)	.07	.14	.12	.02	.00	.00	.02	.05	.07	.02	.05	.00	.02	.02	.00	.02	.00	.63
4.1- 5.0	9	12	1	0	0	0	0	0	0	2	4	8	1	1	1	2	0	41
(1)	4.21	5.61	.47	.00	.00	.00	.00	.00	.00	.93	1.87	3.74	.47	.47	.47	.93	.00	19.16
(2)	.21	.28	.02	.00	.00	.00	.00	.00	.00	.05	.09	.19	.02	.02	.02	.05	.00	.95
5.1- 6.0	2	5	0	1	0	1	0	0	3	3	4	5	0	2	4	1	0	31
(1)	.93	2.34	.00	.47	.00	.47	.00	.00	1.40	1.40	1.87	2.34	.00	.93	1.87	.47	.00	14.49
(2)	.05	.12	.00	.02	.00	.02	.00	.00	.07	.07	.09	.12	.00	.05	.09	.02	.00	.72

Table 2.3-55—{SSES 197' (60-m) 2001-2006 April JFD - continued}

(Page 2 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 4.97**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	9	3	0	0	0	2	0	2	1	3	3	16	7	2	2	2	0	52
(1)	4.21	1.40	.00	.00	.00	.93	.00	.93	.47	1.40	1.40	7.48	3.27	.93	.93	.93	.00	24.30
(2)	.21	.07	.00	.00	.00	.05	.00	.05	.02	.07	.07	.37	.16	.05	.05	.05	.00	1.21
8.1-10.0	0	1	0	0	0	0	1	0	0	1	2	3	3	0	0	1	0	12
(1)	.00	.47	.00	.00	.00	.00	.47	.00	.00	.47	.93	1.40	1.40	.00	.00	.47	.00	5.61
(2)	.00	.02	.00	.00	.00	.00	.02	.00	.00	.02	.05	.07	.07	.00	.00	.02	.00	.28
10.1-40.3	0	0	0	0	0	0	1	0	0	0	1	2	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.47	.00	.00	.00	.47	.93	.00	.00	.00	.00	.00	1.87
(2)	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.02	.05	.00	.00	.00	.00	.00	.09
ALL SPEEDS	24	32	10	7	5	5	8	4	12	16	20	38	13	6	7	7	0	214
(1)	11.21	14.95	4.67	3.27	2.34	2.34	3.74	1.87	5.61	7.48	9.35	17.76	6.07	2.80	3.27	3.27	.00	100.00
(2)	.56	.74	.23	.16	.12	.12	.19	.09	.28	.37	.46	.88	.30	.14	.16	.16	.00	4.97

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-55—{SSES 197' (60-m) 2001-2006 April JFD - continued}

(Page 1 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 40.95**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	4	5	7	5	4	4	0	0	1	1	1	1	0	0	0	33
(1)	.00	.00	.23	.28	.40	.28	.23	.23	.00	.00	.06	.06	.06	.06	.00	.00	.00	1.87
(2)	.00	.00	.09	.12	.16	.12	.09	.09	.00	.00	.02	.02	.02	.02	.00	.00	.00	.77
1.1- 1.5	3	7	14	7	4	5	5	6	5	6	5	4	0	0	0	4	0	75
(1)	.17	.40	.79	.40	.23	.28	.28	.34	.28	.34	.28	.23	.00	.00	.00	.23	.00	4.25
(2)	.07	.16	.33	.16	.09	.12	.12	.14	.12	.14	.12	.09	.00	.00	.00	.09	.00	1.74
1.6- 2.0	3	13	16	8	3	7	9	5	4	10	7	2	1	0	0	4	0	92
(1)	.17	.74	.91	.45	.17	.40	.51	.28	.23	.57	.40	.11	.06	.00	.00	.23	.00	5.22
(2)	.07	.30	.37	.19	.07	.16	.21	.12	.09	.23	.16	.05	.02	.00	.00	.09	.00	2.14
2.1- 3.0	14	34	28	10	10	11	9	12	15	13	26	17	11	3	14	3	0	230
(1)	.79	1.93	1.59	.57	.57	.62	.51	.68	.85	.74	1.47	.96	.62	.17	.79	.17	.00	13.05
(2)	.33	.79	.65	.23	.23	.26	.21	.28	.35	.30	.60	.39	.26	.07	.33	.07	.00	5.34
3.1- 4.0	33	32	34	4	9	9	15	9	14	10	23	21	18	21	14	16	0	282
(1)	1.87	1.82	1.93	.23	.51	.51	.85	.51	.79	.57	1.30	1.19	1.02	1.19	.79	.91	.00	16.00
(2)	.77	.74	.79	.09	.21	.21	.35	.21	.33	.23	.53	.49	.42	.49	.33	.37	.00	6.55
4.1- 5.0	46	55	29	17	7	21	18	17	11	4	24	21	18	21	29	32	0	370
(1)	2.61	3.12	1.64	.96	.40	1.19	1.02	.96	.62	.23	1.36	1.19	1.02	1.19	1.64	1.82	.00	20.99
(2)	1.07	1.28	.67	.39	.16	.49	.42	.39	.26	.09	.56	.49	.42	.49	.67	.74	.00	8.59
5.1- 6.0	44	44	21	6	5	13	20	4	10	9	22	18	22	28	43	36	0	345
(1)	2.50	2.50	1.19	.34	.28	.74	1.13	.23	.57	.51	1.25	1.02	1.25	1.59	2.44	2.04	.00	19.57
(2)	1.02	1.02	.49	.14	.12	.30	.46	.09	.23	.21	.51	.42	.51	.65	1.00	.84	.00	8.01

Table 2.3-55—{SSES 197' (60-m) 2001-2006 April JFD - continued}

(Page 2 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 40.95**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	20	34	13	1	1	10	7	4	11	7	20	31	33	25	33	18	0	268
(1)	1.13	1.93	.74	.06	.06	.57	.40	.23	.62	.40	1.13	1.76	1.87	1.42	1.87	1.02	.00	15.20
(2)	.46	.79	.30	.02	.02	.23	.16	.09	.26	.16	.46	.72	.77	.58	.77	.42	.00	6.23
8.1-10.0	1	4	2	0	0	0	2	2	3	2	4	27	11	2	4	1	0	65
(1)	.06	.23	.11	.00	.00	.00	.11	.11	.17	.11	.23	1.53	.62	.11	.23	.06	.00	3.69
(2)	.02	.09	.05	.00	.00	.00	.05	.05	.07	.05	.09	.63	.26	.05	.09	.02	.00	1.51
10.1-40.3	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	3
(1)	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.00	.00	.00	.00	.00	.17
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.07
ALL SPEEDS	165	223	161	58	46	81	89	63	73	61	132	144	115	101	137	114	0	1763
(1)	9.36	12.65	9.13	3.29	2.61	4.59	5.05	3.57	4.14	3.46	7.49	8.17	6.52	5.73	7.77	6.47	.00	100.00
(2)	3.83	5.18	3.74	1.35	1.07	1.88	2.07	1.46	1.70	1.42	3.07	3.34	2.67	2.35	3.18	2.65	.00	40.95

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-55—{SSES 197' (60-m) 2001-2006 April JFD - continued}

(Page 1 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS E — CLASS FREQUENCY (PERCENT) = 24.79

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	10	9	15	14	6	4	5	11	7	9	5	1	2	1	1	4	0	104
(1)	.94	.84	1.41	1.31	.56	.37	.47	1.03	.66	.84	.47	.09	.19	.09	.09	.37	.00	9.75
(2)	.23	.21	.35	.33	.14	.09	.12	.26	.16	.21	.12	.02	.05	.02	.02	.09	.00	2.42
1.1- 1.5	8	25	29	8	4	2	2	4	9	11	13	1	3	2	2	1	0	124
(1)	.75	2.34	2.72	.75	.37	.19	.19	.37	.84	1.03	1.22	.09	.28	.19	.19	.09	.00	11.62
(2)	.19	.58	.67	.19	.09	.05	.05	.09	.21	.26	.30	.02	.07	.05	.05	.02	.00	2.88
1.6- 2.0	14	16	12	10	1	3	7	5	9	4	8	6	3	1	1	1	0	101
(1)	1.31	1.50	1.12	.94	.09	.28	.66	.47	.84	.37	.75	.56	.28	.09	.09	.09	.00	9.47
(2)	.33	.37	.28	.23	.02	.07	.16	.12	.21	.09	.19	.14	.07	.02	.02	.02	.00	2.35
2.1- 3.0	22	33	34	17	8	6	11	12	9	8	19	13	10	12	4	6	0	224
(1)	2.06	3.09	3.19	1.59	.75	.56	1.03	1.12	.84	.75	1.78	1.22	.94	1.12	.37	.56	.00	20.99
(2)	.51	.77	.79	.39	.19	.14	.26	.28	.21	.19	.44	.30	.23	.28	.09	.14	.00	5.20
3.1- 4.0	18	25	33	12	2	7	9	9	9	20	16	18	5	1	3	9	0	196
(1)	1.69	2.34	3.09	1.12	.19	.66	.84	.84	.84	1.87	1.50	1.69	.47	.09	.28	.84	.00	18.37
(2)	.42	.58	.77	.28	.05	.16	.21	.21	.21	.46	.37	.42	.12	.02	.07	.21	.00	4.55
4.1- 5.0	7	22	19	8	5	4	5	7	9	18	12	17	1	1	2	9	0	146
(1)	.66	2.06	1.78	.75	.47	.37	.47	.66	.84	1.69	1.12	1.59	.09	.09	.19	.84	.00	13.68
(2)	.16	.51	.44	.19	.12	.09	.12	.16	.21	.42	.28	.39	.02	.02	.05	.21	.00	3.39
5.1- 6.0	3	19	9	3	1	3	0	2	7	20	11	17	1	1	2	1	0	100
(1)	.28	1.78	.84	.28	.09	.28	.00	.19	.66	1.87	1.03	1.59	.09	.09	.19	.09	.00	9.37
(2)	.07	.44	.21	.07	.02	.07	.00	.05	.16	.46	.26	.39	.02	.02	.05	.02	.00	2.32

Table 2.3-55—{SSES 197' (60-m) 2001-2006 April JFD - continued}

(Page 2 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 24.79**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	7	3	1	5	1	1	1	9	11	9	13	2	0	0	0	0	63
(1)	.00	.66	.28	.09	.47	.09	.09	.09	.84	1.03	.84	1.22	.19	.00	.00	.00	.00	5.90
(2)	.00	.16	.07	.02	.12	.02	.02	.02	.21	.26	.21	.30	.05	.00	.00	.00	.00	1.46
8.1-10.0	0	0	1	0	0	0	0	0	0	2	3	2	0	0	0	0	0	8
(1)	.00	.00	.09	.00	.00	.00	.00	.00	.00	.19	.28	.19	.00	.00	.00	.00	.00	.75
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.05	.07	.05	.00	.00	.00	.00	.00	.19
10.1-40.3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.09
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02
ALL SPEEDS	82	156	155	73	32	30	40	51	68	103	97	88	27	19	15	31	0	1067
(1)	7.69	14.62	14.53	6.84	3.00	2.81	3.75	4.78	6.37	9.65	9.09	8.25	2.53	1.78	1.41	2.91	.00	100.00
(2)	1.90	3.62	3.60	1.70	.74	.70	.93	1.18	1.58	2.39	2.25	2.04	.63	.44	.35	.72	.00	24.79

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-55—{SSES 197' (60-m) 2001-2006 April JFD - continued}

(Page 1 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 7.22**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.32	.00	.00	.00	.00	.00	.32	.00	.00	.00	.00	.00	.00	.00	.64
(2)	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.05
.5- 1.0	3	5	13	9	6	4	8	1	7	2	0	0	1	3	0	0	0	62
(1)	.96	1.61	4.18	2.89	1.93	1.29	2.57	.32	2.25	.64	.00	.00	.32	.96	.00	.00	.00	19.94
(2)	.07	.12	.30	.21	.14	.09	.19	.02	.16	.05	.00	.00	.02	.07	.00	.00	.00	1.44
1.1- 1.5	7	20	28	5	3	4	2	4	4	6	2	1	1	0	0	0	0	87
(1)	2.25	6.43	9.00	1.61	.96	1.29	.64	1.29	1.29	1.93	.64	.32	.32	.00	.00	.00	.00	27.97
(2)	.16	.46	.65	.12	.07	.09	.05	.09	.09	.14	.05	.02	.02	.00	.00	.00	.00	2.02
1.6- 2.0	9	22	6	1	1	1	1	2	4	3	3	1	0	1	1	1	0	57
(1)	2.89	7.07	1.93	.32	.32	.32	.32	.64	1.29	.96	.96	.32	.00	.32	.32	.32	.00	18.33
(2)	.21	.51	.14	.02	.02	.02	.02	.05	.09	.07	.07	.02	.00	.02	.02	.02	.00	1.32
2.1- 3.0	6	24	9	1	1	0	0	3	3	2	8	2	1	1	2	0	0	63
(1)	1.93	7.72	2.89	.32	.32	.00	.00	.96	.96	.64	2.57	.64	.32	.32	.64	.00	.00	20.26
(2)	.14	.56	.21	.02	.02	.00	.00	.07	.07	.05	.19	.05	.02	.02	.05	.00	.00	1.46
3.1- 4.0	3	4	2	0	0	0	1	1	2	3	1	7	0	0	0	0	0	24
(1)	.96	1.29	.64	.00	.00	.00	.32	.32	.64	.96	.32	2.25	.00	.00	.00	.00	.00	7.72
(2)	.07	.09	.05	.00	.00	.00	.02	.02	.05	.07	.02	.16	.00	.00	.00	.00	.00	.56
4.1- 5.0	0	2	0	0	0	0	0	0	0	4	0	6	0	0	0	0	0	12
(1)	.00	.64	.00	.00	.00	.00	.00	.00	.00	1.29	.00	1.93	.00	.00	.00	.00	.00	3.86
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.09	.00	.14	.00	.00	.00	.00	.00	.28
5.1- 6.0	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.64	.32	.32	.00	.00	.00	.00	.00	1.29
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.02	.02	.00	.00	.00	.00	.00	.09

Table 2.3-55—{SSES 197' (60-m) 2001-2006 April JFD - continued}

(Page 2 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 7.22**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	28	77	58	17	11	9	12	11	20	23	15	18	3	5	3	1	0	311
(1)	9.00	24.76	18.65	5.47	3.54	2.89	3.86	3.54	6.43	7.40	4.82	5.79	.96	1.61	.96	.32	.00	100.00
(2)	.65	1.79	1.35	.39	.26	.21	.28	.26	.46	.53	.35	.42	.07	.12	.07	.02	.00	7.22

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-55—{SSES 197' (60-m) 2001-2006 April JFD - continued}

(Page 1 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 9.64**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24
(2)	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	4	5	23	14	6	8	4	3	3	1	0	2	1	0	0	0	0	74
(1)	.96	1.20	5.54	3.37	1.45	1.93	.96	.72	.72	.24	.00	.48	.24	.00	.00	.00	.00	17.83
(2)	.09	.12	.53	.33	.14	.19	.09	.07	.07	.02	.00	.05	.02	.00	.00	.00	.00	1.72
1.1- 1.5	8	25	29	8	7	3	5	4	3	4	3	0	0	0	0	0	0	99
(1)	1.93	6.02	6.99	1.93	1.69	.72	1.20	.96	.72	.96	.72	.00	.00	.00	.00	.00	.00	23.86
(2)	.19	.58	.67	.19	.16	.07	.12	.09	.07	.09	.07	.00	.00	.00	.00	.00	.00	2.30
1.6- 2.0	16	41	13	8	3	1	1	3	7	1	2	1	0	0	0	1	0	98
(1)	3.86	9.88	3.13	1.93	.72	.24	.24	.72	1.69	.24	.48	.24	.00	.00	.00	.24	.00	23.61
(2)	.37	.95	.30	.19	.07	.02	.02	.07	.16	.02	.05	.02	.00	.00	.00	.02	.00	2.28
2.1- 3.0	30	57	18	1	2	2	0	1	2	3	5	2	0	0	1	0	0	124
(1)	7.23	13.73	4.34	.24	.48	.48	.00	.24	.48	.72	1.20	.48	.00	.00	.24	.00	.00	29.88
(2)	.70	1.32	.42	.02	.05	.05	.00	.02	.05	.07	.12	.05	.00	.00	.02	.00	.00	2.88
3.1- 4.0	2	5	3	0	0	0	0	0	1	4	0	0	0	0	0	0	0	15
(1)	.48	1.20	.72	.00	.00	.00	.00	.00	.24	.96	.00	.00	.00	.00	.00	.00	.00	3.61
(2)	.05	.12	.07	.00	.00	.00	.00	.00	.02	.09	.00	.00	.00	.00	.00	.00	.00	.35
4.1- 5.0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.24	.00	.00	.48	.00	.00	.00	.00	.00	.72
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.05	.00	.00	.00	.00	.00	.07
5.1- 6.0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24	.00	.00	.00	.00	.00	.00	.00	.24
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02

Table 2.3-55—{SSES 197' (60-m) 2001-2006 April JFD - continued}

(Page 2 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 9.64**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	60	133	86	32	18	14	10	11	17	14	10	7	1	0	1	1	0	415
(1)	14.46	32.05	20.72	7.71	4.34	3.37	2.41	2.65	4.10	3.37	2.41	1.69	.24	.00	.24	.24	.00	100.00
(2)	1.39	3.09	2.00	.74	.42	.33	.23	.26	.39	.33	.23	.16	.02	.00	.02	.02	.00	9.64

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-55—{SSES 197' (60-m) 2001-2006 April JFD - continued}

(Page 1 of 2)

SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	3
(1)	.00	.00	.00	.05	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.07
(2)	.00	.00	.00	.05	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.07
.5- 1.0	17	20	57	44	26	22	22	19	17	13	6	4	5	5	1	4	0	282
(1)	.39	.46	1.32	1.02	.60	.51	.51	.44	.39	.30	.14	.09	.12	.12	.02	.09	.00	6.55
(2)	.39	.46	1.32	1.02	.60	.51	.51	.44	.39	.30	.14	.09	.12	.12	.02	.09	.00	6.55
1.1- 1.5	26	77	101	32	19	16	17	18	24	32	24	8	4	2	2	5	0	407
(1)	.60	1.79	2.35	.74	.44	.37	.39	.42	.56	.74	.56	.19	.09	.05	.05	.12	.00	9.45
(2)	.60	1.79	2.35	.74	.44	.37	.39	.42	.56	.74	.56	.19	.09	.05	.05	.12	.00	9.45
1.6- 2.0	43	93	50	30	12	15	23	17	27	23	23	12	4	3	2	7	0	384
(1)	1.00	2.16	1.16	.70	.28	.35	.53	.39	.63	.53	.53	.28	.09	.07	.05	.16	.00	8.92
(2)	1.00	2.16	1.16	.70	.28	.35	.53	.39	.63	.53	.53	.28	.09	.07	.05	.16	.00	8.92
2.1- 3.0	75	153	98	34	27	24	24	30	38	43	76	42	23	16	21	10	0	734
(1)	1.74	3.55	2.28	.79	.63	.56	.56	.70	.88	1.00	1.77	.98	.53	.37	.49	.23	.00	17.05
(2)	1.74	3.55	2.28	.79	.63	.56	.56	.70	.88	1.00	1.77	.98	.53	.37	.49	.23	.00	17.05
3.1- 4.0	61	88	81	17	12	18	27	23	37	53	68	54	24	25	17	26	0	631
(1)	1.42	2.04	1.88	.39	.28	.42	.63	.53	.86	1.23	1.58	1.25	.56	.58	.39	.60	.00	14.66
(2)	1.42	2.04	1.88	.39	.28	.42	.63	.53	.86	1.23	1.58	1.25	.56	.58	.39	.60	.00	14.66
4.1- 5.0	72	119	55	26	13	25	24	24	21	38	60	67	21	28	35	47	0	675
(1)	1.67	2.76	1.28	.60	.30	.58	.56	.56	.49	.88	1.39	1.56	.49	.65	.81	1.09	.00	15.68
(2)	1.67	2.76	1.28	.60	.30	.58	.56	.56	.49	.88	1.39	1.56	.49	.65	.81	1.09	.00	15.68
5.1- 6.0	54	87	34	10	7	17	24	8	23	43	61	50	25	35	51	43	0	572
(1)	1.25	2.02	.79	.23	.16	.39	.56	.19	.53	1.00	1.42	1.16	.58	.81	1.18	1.00	.00	13.29
(2)	1.25	2.02	.79	.23	.16	.39	.56	.19	.53	1.00	1.42	1.16	.58	.81	1.18	1.00	.00	13.29

Table 2.3-55—{SSES 197' (60-m) 2001-2006 April JFD - continued}

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SSES APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	33	53	18	2	6	14	15	11	27	30	57	95	46	27	41	27	0	502
(1)	.77	1.23	.42	.05	.14	.33	.35	.26	.63	.70	1.32	2.21	1.07	.63	.95	.63	.00	11.66
(2)	.77	1.23	.42	.05	.14	.33	.35	.26	.63	.70	1.32	2.21	1.07	.63	.95	.63	.00	11.66
8.1-10.0	2	7	3	0	0	1	3	3	5	6	11	37	14	2	7	2	0	103
(1)	.05	.16	.07	.00	.00	.02	.07	.07	.12	.14	.26	.86	.33	.05	.16	.05	.00	2.39
(2)	.05	.16	.07	.00	.00	.02	.07	.07	.12	.14	.26	.86	.33	.05	.16	.05	.00	2.39
10.1-40.3	1	0	0	0	0	0	1	0	1	0	3	6	0	0	0	0	0	12
(1)	.02	.00	.00	.00	.00	.00	.02	.00	.02	.00	.07	.14	.00	.00	.00	.00	.00	.28
(2)	.02	.00	.00	.00	.00	.00	.02	.00	.02	.00	.07	.14	.00	.00	.00	.00	.00	.28
ALL SPEEDS	384	697	497	197	122	152	180	153	220	282	389	375	166	143	177	171	0	4305
(1)	8.92	16.19	11.54	4.58	2.83	3.53	4.18	3.55	5.11	6.55	9.04	8.71	3.86	3.32	4.11	3.97	.00	100.00
(2)	8.92	16.19	11.54	4.58	2.83	3.53	4.18	3.55	5.11	6.55	9.04	8.71	3.86	3.32	4.11	3.97	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-56 {SSES 197' (60-m) 2001-2006 May JFD}

(Page 1 of 2)

SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS A — CLASS FREQUENCY (PERCENT) = 6.47

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.37	.00	.00	.00	.00	.00	.00	.00	.00	.37
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.02
1.1- 1.5	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	4
(1)	.00	.00	.00	1.12	.00	.00	.00	.00	.00	.37	.00	.00	.00	.00	.00	.00	.00	1.49
(2)	.00	.00	.00	.07	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.10
1.6- 2.0	0	1	2	4	1	2	1	0	1	2	3	0	1	0	1	0	0	19
(1)	.00	.37	.74	1.49	.37	.74	.37	.00	.37	.74	1.12	.00	.37	.00	.37	.00	.00	7.06
(2)	.00	.02	.05	.10	.02	.05	.02	.00	.02	.05	.07	.00	.02	.00	.02	.00	.00	.46
2.1- 3.0	0	2	8	0	3	5	3	4	5	9	9	2	0	0	0	1	0	51
(1)	.00	.74	2.97	.00	1.12	1.86	1.12	1.49	1.86	3.35	3.35	.74	.00	.00	.00	.37	.00	18.96
(2)	.00	.05	.19	.00	.07	.12	.07	.10	.12	.22	.22	.05	.00	.00	.00	.02	.00	1.23
3.1- 4.0	0	3	6	1	1	3	2	3	3	6	17	4	0	1	0	1	0	51
(1)	.00	1.12	2.23	.37	.37	1.12	.74	1.12	1.12	2.23	6.32	1.49	.00	.37	.00	.37	.00	18.96
(2)	.00	.07	.14	.02	.02	.07	.05	.07	.07	.14	.41	.10	.00	.02	.00	.02	.00	1.23
4.1- 5.0	4	4	1	1	1	0	1	4	7	6	14	6	0	1	1	0	0	51
(1)	1.49	1.49	.37	.37	.37	.00	.37	1.49	2.60	2.23	5.20	2.23	.00	.37	.37	.00	.00	18.96
(2)	.10	.10	.02	.02	.02	.00	.02	.10	.17	.14	.34	.14	.00	.02	.02	.00	.00	1.23
5.1- 6.0	5	4	0	2	0	1	1	1	7	10	9	6	2	0	0	0	0	48
(1)	1.86	1.49	.00	.74	.00	.37	.37	.37	2.60	3.72	3.35	2.23	.74	.00	.00	.00	.00	17.84
(2)	.12	.10	.00	.05	.00	.02	.02	.02	.17	.24	.22	.14	.05	.00	.00	.00	.00	1.16

Table 2.3-56 {SSES 197' (60-m) 2001-2006 May JFD}

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SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 6.47**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	8	4	1	0	0	0	0	0	4	4	10	9	0	0	0	0	0	40
(1)	2.97	1.49	.37	.00	.00	.00	.00	.00	1.49	1.49	3.72	3.35	.00	.00	.00	.00	.00	14.87
(2)	.19	.10	.02	.00	.00	.00	.00	.00	.10	.10	.24	.22	.00	.00	.00	.00	.00	.96
8.1-10.0	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	4
(1)	1.12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.37	.00	.00	.00	.00	.00	1.49
(2)	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.10
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	20	18	18	11	6	11	8	12	28	38	62	28	3	2	2	2	0	269
(1)	7.43	6.69	6.69	4.09	2.23	4.09	2.97	4.46	10.41	14.13	23.05	10.41	1.12	.74	.74	.74	.00	100.00
(2)	.48	.43	.43	.26	.14	.26	.19	.29	.67	.91	1.49	.67	.07	.05	.05	.05	.00	6.47

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-56—{SSES 197' (60-m) 2001-2006 May JFD - continued}

(Page 1 of 2)

SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.97**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.61	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.61
(2)	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
1.1- 1.5	0	1	1	0	0	1	0	0	1	1	1	0	0	0	0	0	0	6
(1)	.00	.61	.61	.00	.00	.61	.00	.00	.61	.61	.61	.00	.00	.00	.00	.00	.00	3.64
(2)	.00	.02	.02	.00	.00	.02	.00	.00	.02	.02	.02	.00	.00	.00	.00	.00	.00	.14
1.6- 2.0	0	2	4	3	0	0	0	0	1	2	1	0	0	0	0	0	0	13
(1)	.00	1.21	2.42	1.82	.00	.00	.00	.00	.61	1.21	.61	.00	.00	.00	.00	.00	.00	7.88
(2)	.00	.05	.10	.07	.00	.00	.00	.00	.02	.05	.02	.00	.00	.00	.00	.00	.00	.31
2.1- 3.0	0	1	1	0	1	1	1	2	1	5	3	1	1	0	0	0	0	18
(1)	.00	.61	.61	.00	.61	.61	.61	1.21	.61	3.03	1.82	.61	.61	.00	.00	.00	.00	10.91
(2)	.00	.02	.02	.00	.02	.02	.02	.05	.02	.12	.07	.02	.02	.00	.00	.00	.00	.43
3.1- 4.0	0	4	3	1	4	1	1	1	1	1	1	3	0	0	2	0	0	23
(1)	.00	2.42	1.82	.61	2.42	.61	.61	.61	.61	.61	.61	1.82	.00	.00	1.21	.00	.00	13.94
(2)	.00	.10	.07	.02	.10	.02	.02	.02	.02	.02	.02	.07	.00	.00	.05	.00	.00	.55
4.1- 5.0	2	2	3	0	0	1	2	1	0	3	10	5	2	2	0	1	0	34
(1)	1.21	1.21	1.82	.00	.00	.61	1.21	.61	.00	1.82	6.06	3.03	1.21	1.21	.00	.61	.00	20.61
(2)	.05	.05	.07	.00	.00	.02	.05	.02	.00	.07	.24	.12	.05	.05	.00	.02	.00	.82
5.1- 6.0	5	1	2	1	1	0	2	2	1	1	8	5	0	2	1	3	0	35
(1)	3.03	.61	1.21	.61	.61	.00	1.21	1.21	.61	.61	4.85	3.03	.00	1.21	.61	1.82	.00	21.21
(2)	.12	.02	.05	.02	.02	.00	.05	.05	.02	.02	.19	.12	.00	.05	.02	.07	.00	.84

Table 2.3-56—{SSES 197' (60-m) 2001-2006 May JFD - continued}

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SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.97**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	6	2	0	0	2	0	0	0	1	0	8	7	0	0	0	3	0	29
(1)	3.64	1.21	.00	.00	1.21	.00	.00	.00	.61	.00	4.85	4.24	.00	.00	.00	1.82	.00	17.58
(2)	.14	.05	.00	.00	.05	.00	.00	.00	.02	.00	.19	.17	.00	.00	.00	.07	.00	.70
8.1-10.0	3	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	6
(1)	1.82	.61	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.21	.00	.00	.00	.00	.00	3.64
(2)	.07	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.14
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	16	14	14	5	9	4	6	6	6	13	32	23	3	4	3	7	0	165
(1)	9.70	8.48	8.48	3.03	5.45	2.42	3.64	3.64	3.64	7.88	19.39	13.94	1.82	2.42	1.82	4.24	.00	100.00
(2)	.39	.34	.34	.12	.22	.10	.14	.14	.14	.31	.77	.55	.07	.10	.07	.17	.00	3.97

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-56—{SSES 197' (60-m) 2001-2006 May JFD - continued}

(Page 1 of 2)

SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 5.78**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.42	.00	.00	.00	.00	.42	.00	.00	.00	.00	.00	.00	.00	.00	.83
(2)	.00	.00	.00	.02	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.05
1.1- 1.5	0	2	0	1	1	0	0	1	0	0	0	0	0	0	0	1	0	6
(1)	.00	.83	.00	.42	.42	.00	.00	.42	.00	.00	.00	.00	.00	.00	.00	.42	.00	2.50
(2)	.00	.05	.00	.02	.02	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02	.00	.14
1.6- 2.0	1	2	2	0	0	1	1	0	1	2	0	0	0	0	0	0	0	10
(1)	.42	.83	.83	.00	.00	.42	.42	.00	.42	.83	.00	.00	.00	.00	.00	.00	.00	4.17
(2)	.02	.05	.05	.00	.00	.02	.02	.00	.02	.05	.00	.00	.00	.00	.00	.00	.00	.24
2.1- 3.0	2	1	5	2	0	2	1	1	1	7	6	2	2	0	0	0	0	32
(1)	.83	.42	2.08	.83	.00	.83	.42	.42	.42	2.92	2.50	.83	.83	.00	.00	.00	.00	13.33
(2)	.05	.02	.12	.05	.00	.05	.02	.02	.02	.17	.14	.05	.05	.00	.00	.00	.00	.77
3.1- 4.0	3	3	4	0	3	2	0	0	2	7	11	3	1	0	2	0	0	41
(1)	1.25	1.25	1.67	.00	1.25	.83	.00	.00	.83	2.92	4.58	1.25	.42	.00	.83	.00	.00	17.08
(2)	.07	.07	.10	.00	.07	.05	.00	.00	.05	.17	.26	.07	.02	.00	.05	.00	.00	.99
4.1- 5.0	3	2	1	2	1	3	6	1	0	4	17	5	5	2	2	1	0	55
(1)	1.25	.83	.42	.83	.42	1.25	2.50	.42	.00	1.67	7.08	2.08	2.08	.83	.83	.42	.00	22.92
(2)	.07	.05	.02	.05	.02	.07	.14	.02	.00	.10	.41	.12	.12	.05	.05	.02	.00	1.32
5.1- 6.0	3	4	0	3	1	0	3	3	2	3	6	8	1	1	0	6	0	44
(1)	1.25	1.67	.00	1.25	.42	.00	1.25	1.25	.83	1.25	2.50	3.33	.42	.42	.00	2.50	.00	18.33
(2)	.07	.10	.00	.07	.02	.00	.07	.07	.05	.07	.14	.19	.02	.02	.00	.14	.00	1.06

Table 2.3-56—{SSES 197' (60-m) 2001-2006 May JFD - continued}

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SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 5.78**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	6	2	0	0	0	1	0	0	4	1	7	9	3	2	1	2	0	38
(1)	2.50	.83	.00	.00	.00	.42	.00	.00	1.67	.42	2.92	3.75	1.25	.83	.42	.83	.00	15.83
(2)	.14	.05	.00	.00	.00	.02	.00	.00	.10	.02	.17	.22	.07	.05	.02	.05	.00	.91
8.1-10.0	1	0	0	0	0	0	0	0	0	0	1	8	0	0	0	1	0	11
(1)	.42	.00	.00	.00	.00	.00	.00	.00	.00	.00	.42	3.33	.00	.00	.00	.42	.00	4.58
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.19	.00	.00	.00	.02	.00	.26
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.42	.00	.00	.00	.00	.00	.42
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
ALL SPEEDS	19	16	12	9	6	9	11	6	11	24	48	36	12	5	5	11	0	240
(1)	7.92	6.67	5.00	3.75	2.50	3.75	4.58	2.50	4.58	10.00	20.00	15.00	5.00	2.08	2.08	4.58	.00	100.00
(2)	.46	.39	.29	.22	.14	.22	.26	.14	.26	.58	1.16	.87	.29	.12	.12	.26	.00	5.78

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-56—{SSES 197' (60-m) 2001-2006 May JFD - continued}

(Page 1 of 2)

SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 39.16**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	1	6	7	7	6	6	5	4	4	1	0	0	1	1	1	0	0	50
(1)	.06	.37	.43	.43	.37	.37	.31	.25	.25	.06	.00	.00	.06	.06	.06	.00	.00	3.07
(2)	.02	.14	.17	.17	.14	.14	.12	.10	.10	.02	.00	.00	.02	.02	.02	.00	.00	1.20
1.1- 1.5	3	9	17	11	4	6	8	9	5	8	10	3	0	1	1	2	0	97
(1)	.18	.55	1.04	.68	.25	.37	.49	.55	.31	.49	.61	.18	.00	.06	.06	.12	.00	5.96
(2)	.07	.22	.41	.26	.10	.14	.19	.22	.12	.19	.24	.07	.00	.02	.02	.05	.00	2.33
1.6- 2.0	2	10	13	6	5	8	8	6	5	15	28	7	2	1	2	0	0	118
(1)	.12	.61	.80	.37	.31	.49	.49	.37	.31	.92	1.72	.43	.12	.06	.12	.00	.00	7.25
(2)	.05	.24	.31	.14	.12	.19	.19	.14	.12	.36	.67	.17	.05	.02	.05	.00	.00	2.84
2.1- 3.0	8	27	40	24	17	14	18	13	18	27	41	21	8	7	5	11	0	299
(1)	.49	1.66	2.46	1.48	1.04	.86	1.11	.80	1.11	1.66	2.52	1.29	.49	.43	.31	.68	.00	18.38
(2)	.19	.65	.96	.58	.41	.34	.43	.31	.43	.65	.99	.51	.19	.17	.12	.26	.00	7.20
3.1- 4.0	22	23	27	20	14	11	16	20	10	12	39	15	9	11	4	12	0	265
(1)	1.35	1.41	1.66	1.23	.86	.68	.98	1.23	.61	.74	2.40	.92	.55	.68	.25	.74	.00	16.29
(2)	.53	.55	.65	.48	.34	.26	.39	.48	.24	.29	.94	.36	.22	.26	.10	.29	.00	6.38
4.1- 5.0	29	26	19	11	9	14	13	12	15	15	26	34	16	14	21	24	0	298
(1)	1.78	1.60	1.17	.68	.55	.86	.80	.74	.92	.92	1.60	2.09	.98	.86	1.29	1.48	.00	18.32
(2)	.70	.63	.46	.26	.22	.34	.31	.29	.36	.36	.63	.82	.39	.34	.51	.58	.00	7.17
5.1- 6.0	24	30	6	2	4	9	9	12	10	10	26	32	19	12	12	20	0	237
(1)	1.48	1.84	.37	.12	.25	.55	.55	.74	.61	.61	1.60	1.97	1.17	.74	.74	1.23	.00	14.57
(2)	.58	.72	.14	.05	.10	.22	.22	.29	.24	.24	.63	.77	.46	.29	.29	.48	.00	5.70

Table 2.3-56—{SSES 197' (60-m) 2001-2006 May JFD - continued}

(Page 2 of 2)

SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 39.16**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	15	20	0	1	12	11	1	2	11	7	15	51	24	13	10	8	0	201
(1)	.92	1.23	.00	.06	.74	.68	.06	.12	.68	.43	.92	3.13	1.48	.80	.61	.49	.00	12.35
(2)	.36	.48	.00	.02	.29	.26	.02	.05	.26	.17	.36	1.23	.58	.31	.24	.19	.00	4.84
8.1-10.0	0	0	0	1	3	3	0	1	5	2	8	16	11	7	0	0	0	57
(1)	.00	.00	.00	.06	.18	.18	.00	.06	.31	.12	.49	.98	.68	.43	.00	.00	.00	3.50
(2)	.00	.00	.00	.02	.07	.07	.00	.02	.12	.05	.19	.39	.26	.17	.00	.00	.00	1.37
10.1-40.3	0	0	0	0	1	1	0	0	0	0	0	2	1	0	0	0	0	5
(1)	.00	.00	.00	.00	.06	.06	.00	.00	.00	.00	.00	.12	.06	.00	.00	.00	.00	.31
(2)	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.05	.02	.00	.00	.00	.00	.12
ALL SPEEDS	104	151	129	83	75	83	78	79	83	97	193	181	91	67	56	77	0	1627
(1)	6.39	9.28	7.93	5.10	4.61	5.10	4.79	4.86	5.10	5.96	11.86	11.12	5.59	4.12	3.44	4.73	.00	100.00
(2)	2.50	3.63	3.10	2.00	1.81	2.00	1.88	1.90	2.00	2.33	4.65	4.36	2.19	1.61	1.35	1.85	.00	39.16

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-56—{SSES 197' (60-m) 2001-2006 May JFD - continued}

(Page 1 of 2)

SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 26.23**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
(2)	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	5	12	31	19	23	12	10	6	5	13	6	3	1	0	1	0	0	147
(1)	.46	1.10	2.84	1.74	2.11	1.10	.92	.55	.46	1.19	.55	.28	.09	.00	.09	.00	.00	13.49
(2)	.12	.29	.75	.46	.55	.29	.24	.14	.12	.31	.14	.07	.02	.00	.02	.00	.00	3.54
1.1- 1.5	6	24	31	12	10	6	8	10	8	11	9	4	0	3	0	4	0	146
(1)	.55	2.20	2.84	1.10	.92	.55	.73	.92	.73	1.01	.83	.37	.00	.28	.00	.37	.00	13.39
(2)	.14	.58	.75	.29	.24	.14	.19	.24	.19	.26	.22	.10	.00	.07	.00	.10	.00	3.51
1.6- 2.0	11	35	15	11	5	9	2	8	4	12	9	5	4	2	2	0	0	134
(1)	1.01	3.21	1.38	1.01	.46	.83	.18	.73	.37	1.10	.83	.46	.37	.18	.18	.00	.00	12.29
(2)	.26	.84	.36	.26	.12	.22	.05	.19	.10	.29	.22	.12	.10	.05	.05	.00	.00	3.23
2.1- 3.0	26	43	31	21	8	12	7	16	14	27	29	14	6	3	4	4	0	265
(1)	2.39	3.94	2.84	1.93	.73	1.10	.64	1.47	1.28	2.48	2.66	1.28	.55	.28	.37	.37	.00	24.31
(2)	.63	1.03	.75	.51	.19	.29	.17	.39	.34	.65	.70	.34	.14	.07	.10	.10	.00	6.38
3.1- 4.0	8	20	20	10	9	2	9	11	21	27	21	12	2	2	4	7	0	185
(1)	.73	1.83	1.83	.92	.83	.18	.83	1.01	1.93	2.48	1.93	1.10	.18	.18	.37	.64	.00	16.97
(2)	.19	.48	.48	.24	.22	.05	.22	.26	.51	.65	.51	.29	.05	.05	.10	.17	.00	4.45
4.1- 5.0	8	8	9	5	8	4	7	5	9	12	14	14	4	3	4	9	0	123
(1)	.73	.73	.83	.46	.73	.37	.64	.46	.83	1.10	1.28	1.28	.37	.28	.37	.83	.00	11.28
(2)	.19	.19	.22	.12	.19	.10	.17	.12	.22	.29	.34	.34	.10	.07	.10	.22	.00	2.96
5.1- 6.0	1	2	3	0	0	0	2	2	8	7	8	9	2	1	7	3	0	55
(1)	.09	.18	.28	.00	.00	.00	.18	.18	.73	.64	.73	.83	.18	.09	.64	.28	.00	5.05
(2)	.02	.05	.07	.00	.00	.00	.05	.05	.19	.17	.19	.22	.05	.02	.17	.07	.00	1.32

Table 2.3-56—{SSES 197' (60-m) 2001-2006 May JFD - continued}

(Page 2 of 2)

SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 26.23**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	3	0	0	1	4	1	0	6	6	2	6	2	0	1	0	0	32
(1)	.00	.28	.00	.00	.09	.37	.09	.00	.55	.55	.18	.55	.18	.00	.09	.00	.00	2.94
(2)	.00	.07	.00	.00	.02	.10	.02	.00	.14	.14	.05	.14	.05	.00	.02	.00	.00	.77
8.1-10.0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.09	.00	.00	.00	.00	.00	.18
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02	.00	.00	.00	.00	.00	.05
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	65	147	140	78	64	49	47	58	76	115	98	68	21	14	23	27	0	1090
(1)	5.96	13.49	12.84	7.16	5.87	4.50	4.31	5.32	6.97	10.55	8.99	6.24	1.93	1.28	2.11	2.48	.00	100.00
(2)	1.56	3.54	3.37	1.88	1.54	1.18	1.13	1.40	1.83	2.77	2.36	1.64	.51	.34	.55	.65	.00	26.23

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-56—{SSES 197' (60-m) 2001-2006 May JFD - continued}

(Page 1 of 2)

SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS F — CLASS FREQUENCY (PERCENT) = 11.72

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	2	5	13	11	11	10	15	5	2	2	2	1	1	1	0	1	0	82
(1)	.41	1.03	2.67	2.26	2.26	2.05	3.08	1.03	.41	.41	.41	.21	.21	.21	.00	.21	.00	16.84
(2)	.05	.12	.31	.26	.26	.24	.36	.12	.05	.05	.05	.02	.02	.02	.00	.02	.00	1.97
1.1- 1.5	7	22	31	10	4	6	9	5	6	1	4	0	1	0	3	0	0	109
(1)	1.44	4.52	6.37	2.05	.82	1.23	1.85	1.03	1.23	.21	.82	.00	.21	.00	.62	.00	.00	22.38
(2)	.17	.53	.75	.24	.10	.14	.22	.12	.14	.02	.10	.00	.02	.00	.07	.00	.00	2.62
1.6- 2.0	9	38	25	3	6	4	1	0	2	5	11	1	2	1	0	0	0	108
(1)	1.85	7.80	5.13	.62	1.23	.82	.21	.00	.41	1.03	2.26	.21	.41	.21	.00	.00	.00	22.18
(2)	.22	.91	.60	.07	.14	.10	.02	.00	.05	.12	.26	.02	.05	.02	.00	.00	.00	2.60
2.1- 3.0	14	61	16	1	2	2	1	4	5	8	7	1	1	0	1	4	0	128
(1)	2.87	12.53	3.29	.21	.41	.41	.21	.82	1.03	1.64	1.44	.21	.21	.00	.21	.82	.00	26.28
(2)	.34	1.47	.39	.02	.05	.05	.02	.10	.12	.19	.17	.02	.02	.00	.02	.10	.00	3.08
3.1- 4.0	5	14	0	0	1	0	0	2	3	1	9	5	1	0	1	1	0	43
(1)	1.03	2.87	.00	.00	.21	.00	.00	.41	.62	.21	1.85	1.03	.21	.00	.21	.21	.00	8.83
(2)	.12	.34	.00	.00	.02	.00	.00	.05	.07	.02	.22	.12	.02	.00	.02	.02	.00	1.03
4.1- 5.0	1	0	1	0	0	0	0	0	0	0	1	3	0	0	0	1	0	7
(1)	.21	.00	.21	.00	.00	.00	.00	.00	.00	.00	.21	.62	.00	.00	.00	.21	.00	1.44
(2)	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02	.07	.00	.00	.00	.02	.00	.17
5.1- 6.0	1	0	0	0	1	0	0	0	0	0	0	7	0	0	0	0	0	9
(1)	.21	.00	.00	.00	.21	.00	.00	.00	.00	.00	.00	1.44	.00	.00	.00	.00	.00	1.85
(2)	.02	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.17	.00	.00	.00	.00	.00	.22

Table 2.3-56—{SSES 197' (60-m) 2001-2006 May JFD - continued}

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SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 11.72**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.21
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	40	140	86	25	25	22	26	16	18	17	34	18	6	2	5	7	0	487
(1)	8.21	28.75	17.66	5.13	5.13	4.52	5.34	3.29	3.70	3.49	6.98	3.70	1.23	.41	1.03	1.44	.00	100.00
(2)	.96	3.37	2.07	.60	.60	.53	.63	.39	.43	.41	.82	.43	.14	.05	.12	.17	.00	11.72

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-56—{SSES 197' (60-m) 2001-2006 May JFD - continued}

(Page 1 of 2)

SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 6.67**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	4	8	3	3	2	4	0	0	0	0	0	0	0	0	0	0	24
(1)	.00	1.44	2.89	1.08	1.08	.72	1.44	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	8.66
(2)	.00	.10	.19	.07	.07	.05	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.58
1.1- 1.5	3	8	25	9	4	4	5	4	1	1	0	0	0	0	0	0	0	64
(1)	1.08	2.89	9.03	3.25	1.44	1.44	1.81	1.44	.36	.36	.00	.00	.00	.00	.00	.00	.00	23.10
(2)	.07	.19	.60	.22	.10	.10	.12	.10	.02	.02	.00	.00	.00	.00	.00	.00	.00	1.54
1.6- 2.0	3	41	16	3	0	1	0	0	5	3	2	0	1	0	0	0	0	75
(1)	1.08	14.80	5.78	1.08	.00	.36	.00	.00	1.81	1.08	.72	.00	.36	.00	.00	.00	.00	27.08
(2)	.07	.99	.39	.07	.00	.02	.00	.00	.12	.07	.05	.00	.02	.00	.00	.00	.00	1.81
2.1- 3.0	5	39	18	1	0	3	0	3	2	3	9	1	0	1	1	4	0	90
(1)	1.81	14.08	6.50	.36	.00	1.08	.00	1.08	.72	1.08	3.25	.36	.00	.36	.36	1.44	.00	32.49
(2)	.12	.94	.43	.02	.00	.07	.00	.07	.05	.07	.22	.02	.00	.02	.02	.10	.00	2.17
3.1- 4.0	1	6	2	0	0	0	1	0	0	2	5	2	0	0	0	1	0	20
(1)	.36	2.17	.72	.00	.00	.00	.36	.00	.00	.72	1.81	.72	.00	.00	.00	.36	.00	7.22
(2)	.02	.14	.05	.00	.00	.00	.02	.00	.00	.05	.12	.05	.00	.00	.00	.02	.00	.48
4.1- 5.0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3
(1)	.72	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.36	.00	.00	.00	.00	.00	1.08
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.07
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.36	.00	.00	.00	.00	.00	.36
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02

Table 2.3-56—{SSES 197' (60-m) 2001-2006 May JFD - continued}

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SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 6.67**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	14	98	69	16	7	10	10	7	8	9	16	5	1	1	1	5	0	277
(1)	5.05	35.38	24.91	5.78	2.53	3.61	3.61	2.53	2.89	3.25	5.78	1.81	.36	.36	.36	1.81	.00	100.00
(2)	.34	2.36	1.66	.39	.17	.24	.24	.17	.19	.22	.39	.12	.02	.02	.02	.12	.00	6.67

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-56—{SSES 197' (60-m) 2001-2006 May JFD - continued}

(Page 1 of 2)

SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS ALL — CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
(2)	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	8	27	59	41	44	30	34	15	13	16	8	4	3	2	2	1	0	307
(1)	.19	.65	1.42	.99	1.06	.72	.82	.36	.31	.39	.19	.10	.07	.05	.05	.02	.00	7.39
(2)	.19	.65	1.42	.99	1.06	.72	.82	.36	.31	.39	.19	.10	.07	.05	.05	.02	.00	7.39
1.1- 1.5	19	66	105	46	23	23	30	29	21	23	24	7	1	4	4	7	0	432
(1)	.46	1.59	2.53	1.11	.55	.55	.72	.70	.51	.55	.58	.17	.02	.10	.10	.17	.00	10.40
(2)	.46	1.59	2.53	1.11	.55	.55	.72	.70	.51	.55	.58	.17	.02	.10	.10	.17	.00	10.40
1.6- 2.0	26	129	77	30	17	25	13	14	19	41	54	13	10	4	5	0	0	477
(1)	.63	3.10	1.85	.72	.41	.60	.31	.34	.46	.99	1.30	.31	.24	.10	.12	.00	.00	11.48
(2)	.63	3.10	1.85	.72	.41	.60	.31	.34	.46	.99	1.30	.31	.24	.10	.12	.00	.00	11.48
2.1- 3.0	55	174	119	49	31	39	31	43	46	86	104	42	18	11	11	24	0	883
(1)	1.32	4.19	2.86	1.18	.75	.94	.75	1.03	1.11	2.07	2.50	1.01	.43	.26	.26	.58	.00	21.25
(2)	1.32	4.19	2.86	1.18	.75	.94	.75	1.03	1.11	2.07	2.50	1.01	.43	.26	.26	.58	.00	21.25
3.1- 4.0	39	73	62	32	32	19	29	37	40	56	103	44	13	14	13	22	0	628
(1)	.94	1.76	1.49	.77	.77	.46	.70	.89	.96	1.35	2.48	1.06	.31	.34	.31	.53	.00	15.11
(2)	.94	1.76	1.49	.77	.77	.46	.70	.89	.96	1.35	2.48	1.06	.31	.34	.31	.53	.00	15.11
4.1- 5.0	49	42	34	19	19	22	29	23	31	40	82	68	27	22	28	36	0	571
(1)	1.18	1.01	.82	.46	.46	.53	.70	.55	.75	.96	1.97	1.64	.65	.53	.67	.87	.00	13.74
(2)	1.18	1.01	.82	.46	.46	.53	.70	.55	.75	.96	1.97	1.64	.65	.53	.67	.87	.00	13.74
5.1- 6.0	39	41	11	8	7	10	17	20	28	31	57	68	24	16	20	32	0	429
(1)	.94	.99	.26	.19	.17	.24	.41	.48	.67	.75	1.37	1.64	.58	.39	.48	.77	.00	10.32
(2)	.94	.99	.26	.19	.17	.24	.41	.48	.67	.75	1.37	1.64	.58	.39	.48	.77	.00	10.32

Table 2.3-56—{SSES 197' (60-m) 2001-2006 May JFD - continued}

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SSES MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	36	31	1	1	15	16	2	2	26	18	42	82	29	15	12	13	0	341
(1)	.87	.75	.02	.02	.36	.39	.05	.05	.63	.43	1.01	1.97	.70	.36	.29	.31	.00	8.21
(2)	.87	.75	.02	.02	.36	.39	.05	.05	.63	.43	1.01	1.97	.70	.36	.29	.31	.00	8.21
8.1-10.0	7	1	0	1	3	3	0	1	6	2	9	28	11	7	0	1	0	80
(1)	.17	.02	.00	.02	.07	.07	.00	.02	.14	.05	.22	.67	.26	.17	.00	.02	.00	1.93
(2)	.17	.02	.00	.02	.07	.07	.00	.02	.14	.05	.22	.67	.26	.17	.00	.02	.00	1.93
10.1-40.3	0	0	0	0	1	1	0	0	0	0	0	3	1	0	0	0	0	6
(1)	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.07	.02	.00	.00	.00	.00	.14
(2)	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.07	.02	.00	.00	.00	.00	.14
ALL SPEEDS	278	584	468	227	192	188	186	184	230	313	483	359	137	95	95	136	0	4155
(1)	6.69	14.06	11.26	5.46	4.62	4.52	4.48	4.43	5.54	7.53	11.62	8.64	3.30	2.29	2.29	3.27	.00	100.00
(2)	6.69	14.06	11.26	5.46	4.62	4.52	4.48	4.43	5.54	7.53	11.62	8.64	3.30	2.29	2.29	3.27	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-57 {SSES 197' (60-m) 2001-2006 June JFD}

(Page 1 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 5.52**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	1	0	1	1	2	0	0	0	0	0	0	0	0	0	0	5
(1)	.00	.00	.49	.00	.49	.49	.99	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.46
(2)	.00	.00	.03	.00	.03	.03	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
1.1- 1.5	0	0	0	1	1	1	2	0	3	4	1	0	0	0	0	0	0	13
(1)	.00	.00	.00	.49	.49	.49	.99	.00	1.48	1.97	.49	.00	.00	.00	.00	.00	.00	6.40
(2)	.00	.00	.00	.03	.03	.03	.05	.00	.08	.11	.03	.00	.00	.00	.00	.00	.00	.35
1.6- 2.0	1	0	1	1	1	0	5	2	1	3	1	1	0	0	0	0	0	17
(1)	.49	.00	.49	.49	.49	.00	2.46	.99	.49	1.48	.49	.49	.00	.00	.00	.00	.00	8.37
(2)	.03	.00	.03	.03	.03	.00	.14	.05	.03	.08	.03	.03	.00	.00	.00	.00	.00	.46
2.1- 3.0	1	4	5	1	1	3	3	1	0	1	5	3	1	0	0	0	0	29
(1)	.49	1.97	2.46	.49	.49	1.48	1.48	.49	.00	.49	2.46	1.48	.49	.00	.00	.00	.00	14.29
(2)	.03	.11	.14	.03	.03	.08	.08	.03	.00	.03	.14	.08	.03	.00	.00	.00	.00	.79
3.1- 4.0	0	5	5	0	1	0	2	0	0	1	10	5	0	0	0	0	0	29
(1)	.00	2.46	2.46	.00	.49	.00	.99	.00	.00	.49	4.93	2.46	.00	.00	.00	.00	.00	14.29
(2)	.00	.14	.14	.00	.03	.00	.05	.00	.00	.03	.27	.14	.00	.00	.00	.00	.00	.79
4.1- 5.0	0	3	0	0	0	0	5	2	0	1	23	8	0	1	2	0	0	45
(1)	.00	1.48	.00	.00	.00	.00	2.46	.99	.00	.49	11.33	3.94	.00	.49	.99	.00	.00	22.17
(2)	.00	.08	.00	.00	.00	.00	.14	.05	.00	.03	.63	.22	.00	.03	.05	.00	.00	1.22
5.1- 6.0	0	0	0	0	0	0	3	0	0	3	27	14	0	0	1	0	0	48
(1)	.00	.00	.00	.00	.00	.00	1.48	.00	.00	1.48	13.30	6.90	.00	.00	.49	.00	.00	23.65
(2)	.00	.00	.00	.00	.00	.00	.08	.00	.00	.08	.73	.38	.00	.00	.03	.00	.00	1.31

Table 2.3-57 {SSES 197' (60-m) 2001-2006 June JFD}

(Page 2 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 5.52**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	2	6	6	0	0	1	1	0	16
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.99	2.96	2.96	.00	.00	.49	.49	.00	7.88
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.16	.16	.00	.00	.03	.03	.00	.44
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.49	.00	.00	.00	.00	.00	.00	.49
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.03
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	2	12	12	3	5	5	22	5	4	15	74	37	1	1	4	1	0	203
(1)	.99	5.91	5.91	1.48	2.46	2.46	10.84	2.46	1.97	7.39	36.45	18.23	.49	.49	1.97	.49	.00	100.00
(2)	.05	.33	.33	.08	.14	.14	.60	.14	.11	.41	2.01	1.01	.03	.03	.11	.03	.00	5.52

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-57—{SSES 197' (60-m) 2001-2006 June JFD - continued}

(Page 1 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 4.71**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	1	2	0	0	1	0	0	1	0	0	0	0	0	0	0	5
(1)	.00	.00	.58	1.16	.00	.00	.58	.00	.00	.58	.00	.00	.00	.00	.00	.00	.00	2.89
(2)	.00	.00	.03	.05	.00	.00	.03	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.14
1.1- 1.5	0	1	1	1	1	2	0	0	1	1	1	1	0	0	0	0	0	10
(1)	.00	.58	.58	.58	.58	1.16	.00	.00	.58	.58	.58	.58	.00	.00	.00	.00	.00	5.78
(2)	.00	.03	.03	.03	.03	.05	.00	.00	.03	.03	.03	.03	.00	.00	.00	.00	.00	.27
1.6- 2.0	0	2	4	0	0	2	0	0	0	1	1	0	0	0	1	0	0	11
(1)	.00	1.16	2.31	.00	.00	1.16	.00	.00	.00	.58	.58	.00	.00	.00	.58	.00	.00	6.36
(2)	.00	.05	.11	.00	.00	.05	.00	.00	.00	.03	.03	.00	.00	.00	.03	.00	.00	.30
2.1- 3.0	2	7	4	1	0	0	3	1	1	0	5	1	0	0	0	0	0	25
(1)	1.16	4.05	2.31	.58	.00	.00	1.73	.58	.58	.00	2.89	.58	.00	.00	.00	.00	.00	14.45
(2)	.05	.19	.11	.03	.00	.00	.08	.03	.03	.00	.14	.03	.00	.00	.00	.00	.00	.68
3.1- 4.0	3	6	3	2	0	0	3	0	0	3	12	3	1	0	0	0	0	36
(1)	1.73	3.47	1.73	1.16	.00	.00	1.73	.00	.00	1.73	6.94	1.73	.58	.00	.00	.00	.00	20.81
(2)	.08	.16	.08	.05	.00	.00	.08	.00	.00	.08	.33	.08	.03	.00	.00	.00	.00	.98
4.1- 5.0	0	1	0	0	0	0	1	1	2	0	22	5	4	0	2	1	0	39
(1)	.00	.58	.00	.00	.00	.00	.58	.58	1.16	.00	12.72	2.89	2.31	.00	1.16	.58	.00	22.54
(2)	.00	.03	.00	.00	.00	.00	.03	.03	.05	.00	.60	.14	.11	.00	.05	.03	.00	1.06
5.1- 6.0	2	0	0	0	0	0	0	0	0	2	17	7	1	0	0	2	0	31
(1)	1.16	.00	.00	.00	.00	.00	.00	.00	.00	1.16	9.83	4.05	.58	.00	.00	1.16	.00	17.92
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	.46	.19	.03	.00	.00	.05	.00	.84

Table 2.3-57—{SSES 197' (60-m) 2001-2006 June JFD - continued}

(Page 2 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 4.71**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	5	6	2	0	0	1	0	14
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.89	3.47	1.16	.00	.00	.58	.00	8.09
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.16	.05	.00	.00	.03	.00	.38
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.58	.58	.00	.00	.00	.00	.00	1.16
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.03	.00	.00	.00	.00	.00	.05
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	7	17	13	6	1	4	8	2	4	8	64	24	8	0	3	4	0	173
(1)	4.05	9.83	7.51	3.47	.58	2.31	4.62	1.16	2.31	4.62	36.99	13.87	4.62	.00	1.73	2.31	.00	100.00
(2)	.19	.46	.35	.16	.03	.11	.22	.05	.11	.22	1.74	.65	.22	.00	.08	.11	.00	4.71

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-57—{SSES 197' (60-m) 2001-2006 June JFD - continued}

(Page 1 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 5.66**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	1	0	2	0	0	0	0	1	1	0	0	0	0	0	0	5
(1)	.00	.00	.48	.00	.96	.00	.00	.00	.00	.48	.48	.00	.00	.00	.00	.00	.00	2.40
(2)	.00	.00	.03	.00	.05	.00	.00	.00	.00	.03	.03	.00	.00	.00	.00	.00	.00	.14
1.1- 1.5	0	1	0	2	1	2	0	1	1	1	0	0	0	0	0	0	0	9
(1)	.00	.48	.00	.96	.48	.96	.00	.48	.48	.48	.00	.00	.00	.00	.00	.00	.00	4.33
(2)	.00	.03	.00	.05	.03	.05	.00	.03	.03	.03	.00	.00	.00	.00	.00	.00	.00	.24
1.6- 2.0	1	2	2	1	1	1	0	0	2	1	1	1	0	0	0	1	0	14
(1)	.48	.96	.96	.48	.48	.48	.00	.00	.96	.48	.48	.48	.00	.00	.00	.48	.00	6.73
(2)	.03	.05	.05	.03	.03	.03	.00	.00	.05	.03	.03	.03	.00	.00	.00	.03	.00	.38
2.1- 3.0	4	9	3	4	0	1	2	0	3	5	6	2	1	2	0	4	0	46
(1)	1.92	4.33	1.44	1.92	.00	.48	.96	.00	1.44	2.40	2.88	.96	.48	.96	.00	1.92	.00	22.12
(2)	.11	.24	.08	.11	.00	.03	.05	.00	.08	.14	.16	.05	.03	.05	.00	.11	.00	1.25
3.1- 4.0	2	1	2	0	0	0	0	0	0	7	12	6	1	0	3	2	0	36
(1)	.96	.48	.96	.00	.00	.00	.00	.00	.00	3.37	5.77	2.88	.48	.00	1.44	.96	.00	17.31
(2)	.05	.03	.05	.00	.00	.00	.00	.00	.00	.19	.33	.16	.03	.00	.08	.05	.00	.98
4.1- 5.0	1	0	1	0	0	2	0	0	0	0	20	5	1	0	2	3	0	35
(1)	.48	.00	.48	.00	.00	.96	.00	.00	.00	.00	9.62	2.40	.48	.00	.96	1.44	.00	16.83
(2)	.03	.00	.03	.00	.00	.05	.00	.00	.00	.00	.54	.14	.03	.00	.05	.08	.00	.95
5.1- 6.0	0	0	0	0	0	0	0	1	1	1	10	10	3	0	2	3	0	31
(1)	.00	.00	.00	.00	.00	.00	.00	.48	.48	.48	4.81	4.81	1.44	.00	.96	1.44	.00	14.90
(2)	.00	.00	.00	.00	.00	.00	.00	.03	.03	.03	.27	.27	.08	.00	.05	.08	.00	.84

Table 2.3-57—{SSES 197' (60-m) 2001-2006 June JFD - continued}

(Page 2 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 5.66**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	2	5	14	1	1	6	2	0	31
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.96	2.40	6.73	.48	.48	2.88	.96	.00	14.90
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.14	.38	.03	.03	.16	.05	.00	.84
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.48	.00	.00	.00	.00	.00	.00	.48
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.03
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	8	13	9	7	4	6	2	2	7	18	56	38	7	3	13	15	0	208
(1)	3.85	6.25	4.33	3.37	1.92	2.88	.96	.96	3.37	8.65	26.92	18.27	3.37	1.44	6.25	7.21	.00	100.00
(2)	.22	.35	.24	.19	.11	.16	.05	.05	.19	.49	1.52	1.03	.19	.08	.35	.41	.00	5.66

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-57—{SSES 197' (60-m) 2001-2006 June JFD - continued}

(Page 1 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 36.40**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	10	18	16	9	9	8	7	9	2	5	2	0	0	1	1	0	97
(1)	.00	.75	1.35	1.20	.67	.67	.60	.52	.67	.15	.37	.15	.00	.00	.07	.07	.00	7.25
(2)	.00	.27	.49	.44	.24	.24	.22	.19	.24	.05	.14	.05	.00	.00	.03	.03	.00	2.64
1.1- 1.5	5	12	22	18	5	5	6	6	9	16	20	6	0	0	0	2	0	132
(1)	.37	.90	1.64	1.35	.37	.37	.45	.45	.67	1.20	1.49	.45	.00	.00	.00	.15	.00	9.87
(2)	.14	.33	.60	.49	.14	.14	.16	.16	.24	.44	.54	.16	.00	.00	.00	.05	.00	3.59
1.6- 2.0	9	12	20	11	6	6	7	2	11	22	28	14	2	0	0	1	0	151
(1)	.67	.90	1.49	.82	.45	.45	.52	.15	.82	1.64	2.09	1.05	.15	.00	.00	.07	.00	11.29
(2)	.24	.33	.54	.30	.16	.16	.19	.05	.30	.60	.76	.38	.05	.00	.00	.03	.00	4.11
2.1- 3.0	26	30	21	11	21	9	15	11	9	36	70	14	4	7	9	11	0	304
(1)	1.94	2.24	1.57	.82	1.57	.67	1.12	.82	.67	2.69	5.23	1.05	.30	.52	.67	.82	.00	22.72
(2)	.71	.82	.57	.30	.57	.24	.41	.30	.24	.98	1.90	.38	.11	.19	.24	.30	.00	8.27
3.1- 4.0	12	20	18	4	3	3	14	13	3	14	40	31	7	7	19	12	0	220
(1)	.90	1.49	1.35	.30	.22	.22	1.05	.97	.22	1.05	2.99	2.32	.52	.52	1.42	.90	.00	16.44
(2)	.33	.54	.49	.11	.08	.08	.38	.35	.08	.38	1.09	.84	.19	.19	.52	.33	.00	5.98
4.1- 5.0	7	23	16	0	4	3	6	9	19	9	59	25	12	5	23	17	0	237
(1)	.52	1.72	1.20	.00	.30	.22	.45	.67	1.42	.67	4.41	1.87	.90	.37	1.72	1.27	.00	17.71
(2)	.19	.63	.44	.00	.11	.08	.16	.24	.52	.24	1.61	.68	.33	.14	.63	.46	.00	6.45
5.1- 6.0	2	13	3	0	1	2	3	5	10	11	25	28	5	1	13	9	0	131
(1)	.15	.97	.22	.00	.07	.15	.22	.37	.75	.82	1.87	2.09	.37	.07	.97	.67	.00	9.79
(2)	.05	.35	.08	.00	.03	.05	.08	.14	.27	.30	.68	.76	.14	.03	.35	.24	.00	3.56

Table 2.3-57—{SSES 197' (60-m) 2001-2006 June JFD - continued}

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SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 36.40**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	4	1	1	0	0	1	0	0	2	2	13	26	2	0	4	5	0	61
(1)	.30	.07	.07	.00	.00	.07	.00	.00	.15	.15	.97	1.94	.15	.00	.30	.37	.00	4.56
(2)	.11	.03	.03	.00	.00	.03	.00	.00	.05	.05	.35	.71	.05	.00	.11	.14	.00	1.66
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.37	.00	.00	.00	.00	.00	.37
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	.14
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	65	121	119	60	49	38	59	53	72	112	260	151	32	20	69	58	0	1338
(1)	4.86	9.04	8.89	4.48	3.66	2.84	4.41	3.96	5.38	8.37	19.43	11.29	2.39	1.49	5.16	4.33	.00	100.00
(2)	1.77	3.29	3.24	1.63	1.33	1.03	1.61	1.44	1.96	3.05	7.07	4.11	.87	.54	1.88	1.58	.00	36.40

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-57—{SSES 197' (60-m) 2001-2006 June JFD - continued}

(Page 1 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS E — CLASS FREQUENCY (PERCENT) = 28.75

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.09	.19	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.38
(2)	.00	.00	.00	.00	.03	.05	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11
.5- 1.0	4	10	41	11	20	15	19	7	11	3	3	3	0	0	2	0	0	149
(1)	.38	.95	3.88	1.04	1.89	1.42	1.80	.66	1.04	.28	.28	.28	.00	.00	.19	.00	.00	14.10
(2)	.11	.27	1.12	.30	.54	.41	.52	.19	.30	.08	.08	.08	.00	.00	.05	.00	.00	4.05
1.1- 1.5	10	32	35	13	5	7	9	7	13	19	13	8	1	0	0	3	0	175
(1)	.95	3.03	3.31	1.23	.47	.66	.85	.66	1.23	1.80	1.23	.76	.09	.00	.00	.28	.00	16.56
(2)	.27	.87	.95	.35	.14	.19	.24	.19	.35	.52	.35	.22	.03	.00	.00	.08	.00	4.76
1.6- 2.0	8	50	22	6	8	3	8	6	4	11	16	5	1	1	2	2	0	153
(1)	.76	4.73	2.08	.57	.76	.28	.76	.57	.38	1.04	1.51	.47	.09	.09	.19	.19	.00	14.47
(2)	.22	1.36	.60	.16	.22	.08	.22	.16	.11	.30	.44	.14	.03	.03	.05	.05	.00	4.16
2.1- 3.0	16	68	27	15	8	9	4	8	7	16	36	20	2	4	5	4	0	249
(1)	1.51	6.43	2.55	1.42	.76	.85	.38	.76	.66	1.51	3.41	1.89	.19	.38	.47	.38	.00	23.56
(2)	.44	1.85	.73	.41	.22	.24	.11	.22	.19	.44	.98	.54	.05	.11	.14	.11	.00	6.77
3.1- 4.0	9	20	23	1	1	2	7	12	16	24	17	14	4	3	6	6	0	165
(1)	.85	1.89	2.18	.09	.09	.19	.66	1.14	1.51	2.27	1.61	1.32	.38	.28	.57	.57	.00	15.61
(2)	.24	.54	.63	.03	.03	.05	.19	.33	.44	.65	.46	.38	.11	.08	.16	.16	.00	4.49
4.1- 5.0	4	7	2	0	0	3	4	2	9	13	19	18	1	1	5	3	0	91
(1)	.38	.66	.19	.00	.00	.28	.38	.19	.85	1.23	1.80	1.70	.09	.09	.47	.28	.00	8.61
(2)	.11	.19	.05	.00	.00	.08	.11	.05	.24	.35	.52	.49	.03	.03	.14	.08	.00	2.48
5.1- 6.0	0	8	0	0	0	0	0	3	4	8	7	14	1	1	4	2	0	52
(1)	.00	.76	.00	.00	.00	.00	.00	.28	.38	.76	.66	1.32	.09	.09	.38	.19	.00	4.92
(2)	.00	.22	.00	.00	.00	.00	.00	.08	.11	.22	.19	.38	.03	.03	.11	.05	.00	1.41

Table 2.3-57—{SSES 197' (60-m) 2001-2006 June JFD - continued}

(Page 2 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 28.75**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	3	2	0	0	0	0	1	1	0	6	3	0	0	1	1	0	18
(1)	.00	.28	.19	.00	.00	.00	.00	.09	.09	.00	.57	.28	.00	.00	.09	.09	.00	1.70
(2)	.00	.08	.05	.00	.00	.00	.00	.03	.03	.00	.16	.08	.00	.00	.03	.03	.00	.49
8.1-10.0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.09
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.03
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	51	198	152	46	43	41	52	46	66	94	117	85	10	10	25	21	0	1057
(1)	4.82	18.73	14.38	4.35	4.07	3.88	4.92	4.35	6.24	8.89	11.07	8.04	.95	.95	2.37	1.99	.00	100.00
(2)	1.39	5.39	4.13	1.25	1.17	1.12	1.41	1.25	1.80	2.56	3.18	2.31	.27	.27	.68	.57	.00	28.75

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-57—{SSES 197' (60-m) 2001-2006 June JFD - continued}

(Page 1 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS F — CLASS FREQUENCY (PERCENT) = 13.68

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	4
(1)	.00	.00	.40	.40	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.80
(2)	.00	.00	.05	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11
.5- 1.0	0	9	20	18	9	8	5	4	0	1	0	1	0	0	0	1	0	76
(1)	.00	1.79	3.98	3.58	1.79	1.59	.99	.80	.00	.20	.00	.20	.00	.00	.00	.20	.00	15.11
(2)	.00	.24	.54	.49	.24	.22	.14	.11	.00	.03	.00	.03	.00	.00	.00	.03	.00	2.07
1.1- 1.5	7	37	38	12	10	5	4	5	10	7	3	0	1	0	1	1	0	141
(1)	1.39	7.36	7.55	2.39	1.99	.99	.80	.99	1.99	1.39	.60	.00	.20	.00	.20	.20	.00	28.03
(2)	.19	1.01	1.03	.33	.27	.14	.11	.14	.27	.19	.08	.00	.03	.00	.03	.03	.00	3.84
1.6- 2.0	12	48	24	7	1	2	1	1	4	11	1	1	0	0	0	0	0	113
(1)	2.39	9.54	4.77	1.39	.20	.40	.20	.20	.80	2.19	.20	.20	.00	.00	.00	.00	.00	22.47
(2)	.33	1.31	.65	.19	.03	.05	.03	.03	.11	.30	.03	.03	.00	.00	.00	.00	.00	3.07
2.1- 3.0	21	62	7	0	1	1	0	0	5	8	12	2	1	3	1	1	0	125
(1)	4.17	12.33	1.39	.00	.20	.20	.00	.00	.99	1.59	2.39	.40	.20	.60	.20	.20	.00	24.85
(2)	.57	1.69	.19	.00	.03	.03	.00	.00	.14	.22	.33	.05	.03	.08	.03	.03	.00	3.40
3.1- 4.0	2	5	0	0	0	0	1	2	1	5	7	4	0	0	1	0	0	28
(1)	.40	.99	.00	.00	.00	.00	.20	.40	.20	.99	1.39	.80	.00	.00	.20	.00	.00	5.57
(2)	.05	.14	.00	.00	.00	.00	.03	.05	.03	.14	.19	.11	.00	.00	.03	.00	.00	.76
4.1- 5.0	2	0	0	0	0	0	0	0	2	2	1	4	0	0	1	0	0	12
(1)	.40	.00	.00	.00	.00	.00	.00	.00	.40	.40	.20	.80	.00	.00	.20	.00	.00	2.39
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.05	.05	.03	.11	.00	.00	.03	.00	.00	.33
5.1- 6.0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20	.20	.20	.00	.00	.00	.00	.00	.60
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.03	.03	.00	.00	.00	.00	.00	.08

Table 2.3-57—{SSES 197' (60-m) 2001-2006 June JFD - continued}

(Page 2 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 13.68**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20	.00	.00	.20
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.03
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	44	161	91	39	21	16	11	12	22	35	25	13	2	3	5	3	0	503
(1)	8.75	32.01	18.09	7.75	4.17	3.18	2.19	2.39	4.37	6.96	4.97	2.58	.40	.60	.99	.60	.00	100.00
(2)	1.20	4.38	2.48	1.06	.57	.44	.30	.33	.60	.95	.68	.35	.05	.08	.14	.08	.00	13.68

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-57—{SSES 197' (60-m) 2001-2006 June JFD - continued}

(Page 1 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 5.28**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.52	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.52
(2)	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
.5- 1.0	1	4	2	5	4	5	3	6	0	1	1	0	0	0	0	0	0	32
(1)	.52	2.06	1.03	2.58	2.06	2.58	1.55	3.09	.00	.52	.52	.00	.00	.00	.00	.00	.00	16.49
(2)	.03	.11	.05	.14	.11	.14	.08	.16	.00	.03	.03	.00	.00	.00	.00	.00	.00	.87
1.1- 1.5	1	16	19	7	1	2	6	5	6	4	1	0	0	1	0	0	0	69
(1)	.52	8.25	9.79	3.61	.52	1.03	3.09	2.58	3.09	2.06	.52	.00	.00	.52	.00	.00	.00	35.57
(2)	.03	.44	.52	.19	.03	.05	.16	.14	.16	.11	.03	.00	.00	.03	.00	.00	.00	1.88
1.6- 2.0	1	19	14	1	0	1	0	0	2	3	1	0	0	0	0	0	0	42
(1)	.52	9.79	7.22	.52	.00	.52	.00	.00	1.03	1.55	.52	.00	.00	.00	.00	.00	.00	21.65
(2)	.03	.52	.38	.03	.00	.03	.00	.00	.05	.08	.03	.00	.00	.00	.00	.00	.00	1.14
2.1- 3.0	10	16	5	0	0	0	0	0	1	8	2	0	0	0	0	0	0	42
(1)	5.15	8.25	2.58	.00	.00	.00	.00	.00	.52	4.12	1.03	.00	.00	.00	.00	.00	.00	21.65
(2)	.27	.44	.14	.00	.00	.00	.00	.00	.03	.22	.05	.00	.00	.00	.00	.00	.00	1.14
3.1- 4.0	2	1	0	0	0	0	0	0	0	1	0	1	0	1	1	0	0	7
(1)	1.03	.52	.00	.00	.00	.00	.00	.00	.00	.52	.00	.52	.00	.52	.52	.00	.00	3.61
(2)	.05	.03	.00	.00	.00	.00	.00	.00	.00	.03	.00	.03	.00	.03	.03	.00	.00	.19
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.52	.00	.00	.00	.00	.00	.52
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.03
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-57—{SSES 197' (60-m) 2001-2006 June JFD - continued}

(Page 2 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 5.28**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	15	56	40	13	5	9	9	11	9	17	5	2	0	2	1	0	0	194
(1)	7.73	28.87	20.62	6.70	2.58	4.64	4.64	5.67	4.64	8.76	2.58	1.03	.00	1.03	.52	.00	.00	100.00
(2)	.41	1.52	1.09	.35	.14	.24	.24	.30	.24	.46	.14	.05	.00	.05	.03	.00	.00	5.28

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-57—{SSES 197' (60-m) 2001-2006 June JFD - continued}

(Page 1 of 2)

SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	2	2	1	3	1	0	0	0	0	0	0	0	0	0	0	9
(1)	.00	.00	.05	.05	.03	.08	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24
(2)	.00	.00	.05	.05	.03	.08	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24
.5- 1.0	5	33	84	52	45	38	38	24	20	9	10	6	0	0	3	2	0	369
(1)	.14	.90	2.29	1.41	1.22	1.03	1.03	.65	.54	.24	.27	.16	.00	.00	.08	.05	.00	10.04
(2)	.14	.90	2.29	1.41	1.22	1.03	1.03	.65	.54	.24	.27	.16	.00	.00	.08	.05	.00	10.04
1.1- 1.5	23	99	115	54	24	24	27	24	43	52	39	15	2	1	1	6	0	549
(1)	.63	2.69	3.13	1.47	.65	.65	.73	.65	1.17	1.41	1.06	.41	.05	.03	.03	.16	.00	14.93
(2)	.63	2.69	3.13	1.47	.65	.65	.73	.65	1.17	1.41	1.06	.41	.05	.03	.03	.16	.00	14.93
1.6- 2.0	32	133	87	27	17	15	21	11	24	52	49	22	3	1	3	4	0	501
(1)	.87	3.62	2.37	.73	.46	.41	.57	.30	.65	1.41	1.33	.60	.08	.03	.08	.11	.00	13.63
(2)	.87	3.62	2.37	.73	.46	.41	.57	.30	.65	1.41	1.33	.60	.08	.03	.08	.11	.00	13.63
2.1- 3.0	80	196	72	32	31	23	27	21	26	74	136	42	9	16	15	20	0	820
(1)	2.18	5.33	1.96	.87	.84	.63	.73	.57	.71	2.01	3.70	1.14	.24	.44	.41	.54	.00	22.31
(2)	2.18	5.33	1.96	.87	.84	.63	.73	.57	.71	2.01	3.70	1.14	.24	.44	.41	.54	.00	22.31
3.1- 4.0	30	58	51	7	5	5	27	27	20	55	98	64	13	11	30	20	0	521
(1)	.82	1.58	1.39	.19	.14	.14	.73	.73	.54	1.50	2.67	1.74	.35	.30	.82	.54	.00	14.17
(2)	.82	1.58	1.39	.19	.14	.14	.73	.73	.54	1.50	2.67	1.74	.35	.30	.82	.54	.00	14.17
4.1- 5.0	14	34	19	0	4	8	16	14	32	25	144	66	18	7	35	24	0	460
(1)	.38	.92	.52	.00	.11	.22	.44	.38	.87	.68	3.92	1.80	.49	.19	.95	.65	.00	12.51
(2)	.38	.92	.52	.00	.11	.22	.44	.38	.87	.68	3.92	1.80	.49	.19	.95	.65	.00	12.51
5.1- 6.0	4	21	3	0	1	2	6	9	15	26	87	74	10	2	20	16	0	296
(1)	.11	.57	.08	.00	.03	.05	.16	.24	.41	.71	2.37	2.01	.27	.05	.54	.44	.00	8.05
(2)	.11	.57	.08	.00	.03	.05	.16	.24	.41	.71	2.37	2.01	.27	.05	.54	.44	.00	8.05

Table 2.3-57—{SSES 197' (60-m) 2001-2006 June JFD - continued}

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SSES JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	4	4	3	0	0	1	0	1	3	6	35	55	5	1	13	10	0	141
(1)	.11	.11	.08	.00	.00	.03	.00	.03	.08	.16	.95	1.50	.14	.03	.35	.27	.00	3.84
(2)	.11	.11	.08	.00	.00	.03	.00	.03	.08	.16	.95	1.50	.14	.03	.35	.27	.00	3.84
8.1-10.0	0	0	0	0	0	0	0	0	1	0	3	6	0	0	0	0	0	10
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.08	.16	.00	.00	.00	.00	.00	.27
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.08	.16	.00	.00	.00	.00	.00	.27
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	192	578	436	174	128	119	163	131	184	299	601	350	60	39	120	102	0	3676
(1)	5.22	15.72	11.86	4.73	3.48	3.24	4.43	3.56	5.01	8.13	16.35	9.52	1.63	1.06	3.26	2.77	.00	100.00
(2)	5.22	15.72	11.86	4.73	3.48	3.24	4.43	3.56	5.01	8.13	16.35	9.52	1.63	1.06	3.26	2.77	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-58 {SSES 197' (60-m) 2001-2006 July JFD}

(Page 1 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 9.06

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	2	1	1	0	0	1	0	0	0	0	0	0	0	0	5
(1)	.00	.00	.00	.58	.29	.29	.00	.00	.29	.00	.00	.00	.00	.00	.00	.00	.00	1.45
(2)	.00	.00	.00	.05	.03	.03	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.13
1.1- 1.5	0	1	6	2	2	2	2	0	2	3	4	0	0	0	1	0	0	25
(1)	.00	.29	1.74	.58	.58	.58	.58	.00	.58	.87	1.16	.00	.00	.00	.29	.00	.00	7.27
(2)	.00	.03	.16	.05	.05	.05	.05	.00	.05	.08	.11	.00	.00	.00	.03	.00	.00	.66
1.6- 2.0	2	3	7	10	2	3	1	0	0	3	3	1	1	1	0	0	0	37
(1)	.58	.87	2.03	2.91	.58	.87	.29	.00	.00	.87	.87	.29	.29	.29	.00	.00	.00	10.76
(2)	.05	.08	.18	.26	.05	.08	.03	.00	.00	.08	.08	.03	.03	.03	.00	.00	.00	.97
2.1- 3.0	3	6	5	2	1	0	2	1	2	10	17	3	0	0	1	0	0	53
(1)	.87	1.74	1.45	.58	.29	.00	.58	.29	.58	2.91	4.94	.87	.00	.00	.29	.00	.00	15.41
(2)	.08	.16	.13	.05	.03	.00	.05	.03	.05	.26	.45	.08	.00	.00	.03	.00	.00	1.40
3.1- 4.0	4	4	3	1	0	0	6	1	1	3	26	9	2	1	0	2	0	63
(1)	1.16	1.16	.87	.29	.00	.00	1.74	.29	.29	.87	7.56	2.62	.58	.29	.00	.58	.00	18.31
(2)	.11	.11	.08	.03	.00	.00	.16	.03	.03	.08	.69	.24	.05	.03	.00	.05	.00	1.66
4.1- 5.0	10	1	3	9	0	0	2	0	1	7	34	15	3	0	0	0	0	85
(1)	2.91	.29	.87	2.62	.00	.00	.58	.00	.29	2.03	9.88	4.36	.87	.00	.00	.00	.00	24.71
(2)	.26	.03	.08	.24	.00	.00	.05	.00	.03	.18	.90	.40	.08	.00	.00	.00	.00	2.24
5.1- 6.0	6	4	1	1	0	0	2	0	2	0	14	16	3	0	0	2	0	51
(1)	1.74	1.16	.29	.29	.00	.00	.58	.00	.58	.00	4.07	4.65	.87	.00	.00	.58	.00	14.83
(2)	.16	.11	.03	.03	.00	.00	.05	.00	.05	.00	.37	.42	.08	.00	.00	.05	.00	1.34

Table 2.3-58 {SSES 197' (60-m) 2001-2006 July JFD}

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SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 9.06**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	1	0	0	0	1	2	1	4	13	1	0	1	0	0	24
(1)	.00	.00	.00	.29	.00	.00	.00	.29	.58	.29	1.16	3.78	.29	.00	.29	.00	.00	6.98
(2)	.00	.00	.00	.03	.00	.00	.00	.03	.05	.03	.11	.34	.03	.00	.03	.00	.00	.63
8.1-10.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.29	.00	.00	.00	.00	.00	.00	.29
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.03
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	25	19	25	28	6	6	15	3	11	27	103	57	10	2	3	4	0	344
(1)	7.27	5.52	7.27	8.14	1.74	1.74	4.36	.87	3.20	7.85	29.94	16.57	2.91	.58	.87	1.16	.00	100.00
(2)	.66	.50	.66	.74	.16	.16	.40	.08	.29	.71	2.71	1.50	.26	.05	.08	.11	.00	9.06

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-58—{SSES 197' (60-m) 2001-2006 July JFD - continued}

(Page 1 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 4.69**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.56	.00	.56	.56	.00	.00	.00	.00	.00	.00	.00	.00	1.69
(2)	.00	.00	.00	.00	.00	.03	.00	.03	.03	.00	.00	.00	.00	.00	.00	.00	.00	.08
1.1- 1.5	0	0	2	2	1	0	1	1	0	0	0	0	0	0	0	0	0	7
(1)	.00	.00	1.12	1.12	.56	.00	.56	.56	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.93
(2)	.00	.00	.05	.05	.03	.00	.03	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18
1.6- 2.0	1	3	2	1	0	0	0	0	0	1	3	0	0	0	0	2	0	13
(1)	.56	1.69	1.12	.56	.00	.00	.00	.00	.00	.56	1.69	.00	.00	.00	.00	1.12	.00	7.30
(2)	.03	.08	.05	.03	.00	.00	.00	.00	.00	.03	.08	.00	.00	.00	.00	.05	.00	.34
2.1- 3.0	1	6	2	2	2	1	0	0	0	3	7	0	1	0	0	1	0	26
(1)	.56	3.37	1.12	1.12	1.12	.56	.00	.00	.00	1.69	3.93	.00	.56	.00	.00	.56	.00	14.61
(2)	.03	.16	.05	.05	.05	.03	.00	.00	.00	.08	.18	.00	.03	.00	.00	.03	.00	.69
3.1- 4.0	2	4	1	2	0	0	1	0	2	5	14	6	0	2	1	1	0	41
(1)	1.12	2.25	.56	1.12	.00	.00	.56	.00	1.12	2.81	7.87	3.37	.00	1.12	.56	.56	.00	23.03
(2)	.05	.11	.03	.05	.00	.00	.03	.00	.05	.13	.37	.16	.00	.05	.03	.03	.00	1.08
4.1- 5.0	3	4	2	0	0	0	0	1	2	2	7	9	5	1	0	2	0	38
(1)	1.69	2.25	1.12	.00	.00	.00	.00	.56	1.12	1.12	3.93	5.06	2.81	.56	.00	1.12	.00	21.35
(2)	.08	.11	.05	.00	.00	.00	.00	.03	.05	.05	.18	.24	.13	.03	.00	.05	.00	1.00
5.1- 6.0	6	3	0	0	0	0	2	0	1	3	7	7	2	0	1	3	0	35
(1)	3.37	1.69	.00	.00	.00	.00	1.12	.00	.56	1.69	3.93	3.93	1.12	.00	.56	1.69	.00	19.66
(2)	.16	.08	.00	.00	.00	.00	.05	.00	.03	.08	.18	.18	.05	.00	.03	.08	.00	.92

Table 2.3-58—{SSES 197' (60-m) 2001-2006 July JFD - continued}

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SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 4.69**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	2	0	0	0	0	0	0	0	1	3	8	1	0	0	0	0	15
(1)	.00	1.12	.00	.00	.00	.00	.00	.00	.00	.56	1.69	4.49	.56	.00	.00	.00	.00	8.43
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.03	.08	.21	.03	.00	.00	.00	.00	.40
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	13	22	9	7	3	2	4	3	6	15	41	30	9	3	2	9	0	178
(1)	7.30	12.36	5.06	3.93	1.69	1.12	2.25	1.69	3.37	8.43	23.03	16.85	5.06	1.69	1.12	5.06	.00	100.00
(2)	.34	.58	.24	.18	.08	.05	.11	.08	.16	.40	1.08	.79	.24	.08	.05	.24	.00	4.69

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-58—{SSES 197' (60-m) 2001-2006 July JFD - continued}

(Page 1 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 6.25**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	2	1	2	0	0	0	1	1	0	0	0	0	0	0	0	7
(1)	.00	.00	.84	.42	.84	.00	.00	.00	.42	.42	.00	.00	.00	.00	.00	.00	.00	2.95
(2)	.00	.00	.05	.03	.05	.00	.00	.00	.03	.03	.00	.00	.00	.00	.00	.00	.00	.18
1.1- 1.5	0	0	0	2	1	1	2	0	1	3	3	1	0	0	0	0	0	14
(1)	.00	.00	.00	.84	.42	.42	.84	.00	.42	1.27	1.27	.42	.00	.00	.00	.00	.00	5.91
(2)	.00	.00	.00	.05	.03	.03	.05	.00	.03	.08	.08	.03	.00	.00	.00	.00	.00	.37
1.6- 2.0	2	5	3	2	3	0	1	0	0	1	4	0	2	0	0	1	0	24
(1)	.84	2.11	1.27	.84	1.27	.00	.42	.00	.00	.42	1.69	.00	.84	.00	.00	.42	.00	10.13
(2)	.05	.13	.08	.05	.08	.00	.03	.00	.00	.03	.11	.00	.05	.00	.00	.03	.00	.63
2.1- 3.0	3	3	2	3	0	1	2	1	0	3	9	5	0	1	3	1	0	37
(1)	1.27	1.27	.84	1.27	.00	.42	.84	.42	.00	1.27	3.80	2.11	.00	.42	1.27	.42	.00	15.61
(2)	.08	.08	.05	.08	.00	.03	.05	.03	.00	.08	.24	.13	.00	.03	.08	.03	.00	.97
3.1- 4.0	7	2	1	0	0	1	3	0	1	4	14	8	2	3	4	1	0	51
(1)	2.95	.84	.42	.00	.00	.42	1.27	.00	.42	1.69	5.91	3.38	.84	1.27	1.69	.42	.00	21.52
(2)	.18	.05	.03	.00	.00	.03	.08	.00	.03	.11	.37	.21	.05	.08	.11	.03	.00	1.34
4.1- 5.0	7	1	0	1	0	0	0	0	5	6	14	4	2	3	6	2	0	51
(1)	2.95	.42	.00	.42	.00	.00	.00	.00	2.11	2.53	5.91	1.69	.84	1.27	2.53	.84	.00	21.52
(2)	.18	.03	.00	.03	.00	.00	.00	.00	.13	.16	.37	.11	.05	.08	.16	.05	.00	1.34
5.1- 6.0	3	1	0	0	0	0	1	0	1	2	1	7	4	1	2	3	0	26
(1)	1.27	.42	.00	.00	.00	.00	.42	.00	.42	.84	.42	2.95	1.69	.42	.84	1.27	.00	10.97
(2)	.08	.03	.00	.00	.00	.00	.03	.00	.03	.05	.03	.18	.11	.03	.05	.08	.00	.69

Table 2.3-58—{SSES 197' (60-m) 2001-2006 July JFD - continued}

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SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 6.25**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	3	0	0	0	0	0	0	1	3	5	14	0	0	0	0	0	26
(1)	.00	1.27	.00	.00	.00	.00	.00	.00	.42	1.27	2.11	5.91	.00	.00	.00	.00	.00	10.97
(2)	.00	.08	.00	.00	.00	.00	.00	.00	.03	.08	.13	.37	.00	.00	.00	.00	.00	.69
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.42	.00	.00	.00	.00	.00	.42
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.03
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	22	15	8	9	6	3	9	1	10	23	50	40	10	8	15	8	0	237
(1)	9.28	6.33	3.38	3.80	2.53	1.27	3.80	.42	4.22	9.70	21.10	16.88	4.22	3.38	6.33	3.38	.00	100.00
(2)	.58	.40	.21	.24	.16	.08	.24	.03	.26	.61	1.32	1.05	.26	.21	.40	.21	.00	6.25

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-58—{SSES 197' (60-m) 2001-2006 July JFD - continued}
(Page 1 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 31.25**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08
(2)	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
.2- .4	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.00	.08	.17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
(2)	.00	.00	.00	.03	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08
.5- 1.0	1	5	12	13	10	14	11	9	9	7	2	3	0	1	1	1	0	99
(1)	.08	.42	1.01	1.10	.84	1.18	.93	.76	.76	.59	.17	.25	.00	.08	.08	.08	.00	8.35
(2)	.03	.13	.32	.34	.26	.37	.29	.24	.24	.18	.05	.08	.00	.03	.03	.03	.00	2.61
1.1- 1.5	3	9	13	9	4	5	8	4	13	12	12	6	3	1	0	0	0	102
(1)	.25	.76	1.10	.76	.34	.42	.67	.34	1.10	1.01	1.01	.51	.25	.08	.00	.00	.00	8.60
(2)	.08	.24	.34	.24	.11	.13	.21	.11	.34	.32	.32	.16	.08	.03	.00	.00	.00	2.69
1.6- 2.0	6	16	12	8	5	6	1	10	4	22	26	7	1	1	3	2	0	130
(1)	.51	1.35	1.01	.67	.42	.51	.08	.84	.34	1.85	2.19	.59	.08	.08	.25	.17	.00	10.96
(2)	.16	.42	.32	.21	.13	.16	.03	.26	.11	.58	.69	.18	.03	.03	.08	.05	.00	3.43
2.1- 3.0	11	26	23	20	10	8	15	10	11	26	38	16	4	8	8	8	0	242
(1)	.93	2.19	1.94	1.69	.84	.67	1.26	.84	.93	2.19	3.20	1.35	.34	.67	.67	.67	.00	20.40
(2)	.29	.69	.61	.53	.26	.21	.40	.26	.29	.69	1.00	.42	.11	.21	.21	.21	.00	6.38
3.1- 4.0	18	19	8	3	6	8	12	16	11	13	39	21	9	3	13	13	0	212
(1)	1.52	1.60	.67	.25	.51	.67	1.01	1.35	.93	1.10	3.29	1.77	.76	.25	1.10	1.10	.00	17.88
(2)	.47	.50	.21	.08	.16	.21	.32	.42	.29	.34	1.03	.55	.24	.08	.34	.34	.00	5.59
4.1- 5.0	11	16	2	1	2	8	8	4	22	13	33	42	4	8	11	11	0	196
(1)	.93	1.35	.17	.08	.17	.67	.67	.34	1.85	1.10	2.78	3.54	.34	.67	.93	.93	.00	16.53
(2)	.29	.42	.05	.03	.05	.21	.21	.11	.58	.34	.87	1.11	.11	.21	.29	.29	.00	5.16
5.1- 6.0	5	8	0	0	0	0	3	2	13	16	27	27	7	3	1	5	0	117
(1)	.42	.67	.00	.00	.00	.00	.25	.17	1.10	1.35	2.28	2.28	.59	.25	.08	.42	.00	9.87
(2)	.13	.21	.00	.00	.00	.00	.08	.05	.34	.42	.71	.71	.18	.08	.03	.13	.00	3.08

Table 2.3-58—{SSES 197' (60-m) 2001-2006 July JFD - continued}

(Page 2 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 31.25**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	4	0	0	0	0	2	1	1	10	21	33	0	0	0	0	0	72
(1)	.00	.34	.00	.00	.00	.00	.17	.08	.08	.84	1.77	2.78	.00	.00	.00	.00	.00	6.07
(2)	.00	.11	.00	.00	.00	.00	.05	.03	.03	.26	.55	.87	.00	.00	.00	.00	.00	1.90
8.1-10.0	0	0	0	0	0	0	0	0	1	2	3	6	0	0	0	0	0	12
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.08	.17	.25	.51	.00	.00	.00	.00	.00	1.01
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.03	.05	.08	.16	.00	.00	.00	.00	.00	.32
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	55	103	70	55	40	49	60	56	85	121	201	161	28	25	37	40	0	1186
(1)	4.64	8.68	5.90	4.64	3.37	4.13	5.06	4.72	7.17	10.20	16.95	13.58	2.36	2.11	3.12	3.37	.00	100.00
(2)	1.45	2.71	1.84	1.45	1.05	1.29	1.58	1.48	2.24	3.19	5.30	4.24	.74	.66	.97	1.05	.00	31.25

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-58—{SSES 197' (60-m) 2001-2006 July JFD - continued}

(Page 1 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 29.41**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	0	1	0	2	2	0	1	0	0	0	0	0	0	0	7
(1)	.00	.00	.09	.00	.09	.00	.18	.18	.00	.09	.00	.00	.00	.00	.00	.00	.00	.63
(2)	.00	.00	.03	.00	.03	.00	.05	.05	.00	.03	.00	.00	.00	.00	.00	.00	.00	.18
.5- 1.0	3	17	36	28	20	18	14	18	15	11	5	1	0	0	0	1	0	187
(1)	.27	1.52	3.23	2.51	1.79	1.61	1.25	1.61	1.34	.99	.45	.09	.00	.00	.00	.09	.00	16.76
(2)	.08	.45	.95	.74	.53	.47	.37	.47	.40	.29	.13	.03	.00	.00	.00	.03	.00	4.93
1.1- 1.5	3	28	58	15	20	8	17	13	15	12	12	4	2	0	1	1	0	209
(1)	.27	2.51	5.20	1.34	1.79	.72	1.52	1.16	1.34	1.08	1.08	.36	.18	.00	.09	.09	.00	18.73
(2)	.08	.74	1.53	.40	.53	.21	.45	.34	.40	.32	.32	.11	.05	.00	.03	.03	.00	5.51
1.6- 2.0	15	49	34	6	7	4	5	6	5	13	14	4	2	0	1	1	0	166
(1)	1.34	4.39	3.05	.54	.63	.36	.45	.54	.45	1.16	1.25	.36	.18	.00	.09	.09	.00	14.87
(2)	.40	1.29	.90	.16	.18	.11	.13	.16	.13	.34	.37	.11	.05	.00	.03	.03	.00	4.37
2.1- 3.0	31	71	24	8	10	3	11	5	11	22	38	11	1	3	1	6	0	256
(1)	2.78	6.36	2.15	.72	.90	.27	.99	.45	.99	1.97	3.41	.99	.09	.27	.09	.54	.00	22.94
(2)	.82	1.87	.63	.21	.26	.08	.29	.13	.29	.58	1.00	.29	.03	.08	.03	.16	.00	6.75
3.1- 4.0	7	14	7	2	7	4	9	6	9	23	35	14	1	2	2	4	0	146
(1)	.63	1.25	.63	.18	.63	.36	.81	.54	.81	2.06	3.14	1.25	.09	.18	.18	.36	.00	13.08
(2)	.18	.37	.18	.05	.18	.11	.24	.16	.24	.61	.92	.37	.03	.05	.05	.11	.00	3.85
4.1- 5.0	1	1	3	1	2	2	4	1	9	21	16	20	1	1	7	5	0	95
(1)	.09	.09	.27	.09	.18	.18	.36	.09	.81	1.88	1.43	1.79	.09	.09	.63	.45	.00	8.51
(2)	.03	.03	.08	.03	.05	.05	.11	.03	.24	.55	.42	.53	.03	.03	.18	.13	.00	2.50
5.1- 6.0	0	0	0	0	0	0	1	0	5	5	9	13	1	1	5	1	0	41
(1)	.00	.00	.00	.00	.00	.00	.09	.00	.45	.45	.81	1.16	.09	.09	.45	.09	.00	3.67
(2)	.00	.00	.00	.00	.00	.00	.03	.00	.13	.13	.24	.34	.03	.03	.13	.03	.00	1.08

Table 2.3-58—{SSES 197' (60-m) 2001-2006 July JFD - continued}

(Page 2 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 29.41**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	0	0	0	0	0	0	0	1	1	2	1	1	0	0	1	0	8
(1)	.09	.00	.00	.00	.00	.00	.00	.00	.09	.09	.18	.09	.09	.00	.00	.09	.00	.72
(2)	.03	.00	.00	.00	.00	.00	.00	.00	.03	.03	.05	.03	.03	.00	.00	.03	.00	.21
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.09
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.03
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	61	180	163	60	67	39	63	51	70	109	131	69	9	7	17	20	0	1116
(1)	5.47	16.13	14.61	5.38	6.00	3.49	5.65	4.57	6.27	9.77	11.74	6.18	.81	.63	1.52	1.79	.00	100.00
(2)	1.61	4.74	4.30	1.58	1.77	1.03	1.66	1.34	1.84	2.87	3.45	1.82	.24	.18	.45	.53	.00	29.41

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-58—{SSES 197' (60-m) 2001-2006 July JFD - continued}

(Page 1 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS F — CLASS FREQUENCY (PERCENT) = 15.23

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.17
(2)	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
.5- 1.0	3	5	23	13	15	18	14	7	5	1	4	2	0	0	1	0	0	111
(1)	.52	.87	3.98	2.25	2.60	3.11	2.42	1.21	.87	.17	.69	.35	.00	.00	.17	.00	.00	19.20
(2)	.08	.13	.61	.34	.40	.47	.37	.18	.13	.03	.11	.05	.00	.00	.03	.00	.00	2.92
1.1- 1.5	5	47	29	12	8	10	9	16	19	5	1	1	0	0	0	0	0	162
(1)	.87	8.13	5.02	2.08	1.38	1.73	1.56	2.77	3.29	.87	.17	.17	.00	.00	.00	.00	.00	28.03
(2)	.13	1.24	.76	.32	.21	.26	.24	.42	.50	.13	.03	.03	.00	.00	.00	.00	.00	4.27
1.6- 2.0	5	66	26	2	2	2	4	2	6	4	2	0	0	0	0	1	0	122
(1)	.87	11.42	4.50	.35	.35	.35	.69	.35	1.04	.69	.35	.00	.00	.00	.00	.17	.00	21.11
(2)	.13	1.74	.69	.05	.05	.05	.11	.05	.16	.11	.05	.00	.00	.00	.00	.03	.00	3.21
2.1- 3.0	14	83	7	0	5	2	0	1	1	12	9	2	0	0	3	0	0	139
(1)	2.42	14.36	1.21	.00	.87	.35	.00	.17	.17	2.08	1.56	.35	.00	.00	.52	.00	.00	24.05
(2)	.37	2.19	.18	.00	.13	.05	.00	.03	.03	.32	.24	.05	.00	.00	.08	.00	.00	3.66
3.1- 4.0	2	8	2	0	2	1	0	0	0	4	7	3	1	0	0	0	0	30
(1)	.35	1.38	.35	.00	.35	.17	.00	.00	.00	.69	1.21	.52	.17	.00	.00	.00	.00	5.19
(2)	.05	.21	.05	.00	.05	.03	.00	.00	.00	.11	.18	.08	.03	.00	.00	.00	.00	.79
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	3	8	0	0	1	0	0	12
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.52	1.38	.00	.00	.17	.00	.00	2.08
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.21	.00	.00	.03	.00	.00	.32
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.17	.00	.00	.00	.00	.00	.17
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.03

Table 2.3-58—{SSES 197' (60-m) 2001-2006 July JFD - continued}

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SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 15.23**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	29	209	88	27	32	33	27	26	31	26	26	17	1	0	5	1	0	578
(1)	5.02	36.16	15.22	4.67	5.54	5.71	4.67	4.50	5.36	4.50	4.50	2.94	.17	.00	.87	.17	.00	100.00
(2)	.76	5.51	2.32	.71	.84	.87	.71	.69	.82	.69	.69	.45	.03	.00	.13	.03	.00	15.23

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-58—{SSES 197' (60-m) 2001-2006 July JFD - continued}

(Page 1 of 2)

SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 4.11**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	1	0	3	6	4	5	1	2	0	0	0	0	0	0	0	0	0	22
(1)	.64	.00	1.92	3.85	2.56	3.21	.64	1.28	.00	.00	.00	.00	.00	.00	.00	.00	.00	14.10
(2)	.03	.00	.08	.16	.11	.13	.03	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.58
1.1- 1.5	2	6	18	2	4	4	4	1	3	0	1	0	0	0	1	0	0	46
(1)	1.28	3.85	11.54	1.28	2.56	2.56	2.56	.64	1.92	.00	.64	.00	.00	.00	.64	.00	.00	29.49
(2)	.05	.16	.47	.05	.11	.11	.11	.03	.08	.00	.03	.00	.00	.00	.03	.00	.00	1.21
1.6- 2.0	1	23	7	2	0	0	2	0	1	2	2	1	0	0	1	0	0	42
(1)	.64	14.74	4.49	1.28	.00	.00	1.28	.00	.64	1.28	1.28	.64	.00	.00	.64	.00	.00	26.92
(2)	.03	.61	.18	.05	.00	.00	.05	.00	.03	.05	.05	.03	.00	.00	.03	.00	.00	1.11
2.1- 3.0	3	15	5	0	0	0	0	0	0	5	6	1	0	1	1	1	0	38
(1)	1.92	9.62	3.21	.00	.00	.00	.00	.00	.00	3.21	3.85	.64	.00	.64	.64	.64	.00	24.36
(2)	.08	.40	.13	.00	.00	.00	.00	.00	.00	.13	.16	.03	.00	.03	.03	.03	.00	1.00
3.1- 4.0	1	1	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	7
(1)	.64	.64	.00	.00	.00	.00	.00	.00	.00	.00	1.92	1.28	.00	.00	.00	.00	.00	4.49
(2)	.03	.03	.00	.00	.00	.00	.00	.00	.00	.00	.08	.05	.00	.00	.00	.00	.00	.18
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.64	.00	.00	.64
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.03
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-58—{SSES 197' (60-m) 2001-2006 July JFD - continued}

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SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 4.11**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	8	45	33	10	8	9	7	3	4	7	12	4	0	1	4	1	0	156
(1)	5.13	28.85	21.15	6.41	5.13	5.77	4.49	1.92	2.56	4.49	7.69	2.56	.00	.64	2.56	.64	.00	100.00
(2)	.21	1.19	.87	.26	.21	.24	.18	.08	.11	.18	.32	.11	.00	.03	.11	.03	.00	4.11

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-58—{SSES 197' (60-m) 2001-2006 July JFD - continued}

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SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
(2)	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
.2- .4	0	0	2	1	3	0	2	2	0	1	0	0	0	0	0	0	0	11
(1)	.00	.00	.05	.03	.08	.00	.05	.05	.00	.03	.00	.00	.00	.00	.00	.00	.00	.29
(2)	.00	.00	.05	.03	.08	.00	.05	.05	.00	.03	.00	.00	.00	.00	.00	.00	.00	.29
.5- 1.0	8	27	76	63	52	57	40	37	32	20	11	6	0	1	2	2	0	434
(1)	.21	.71	2.00	1.66	1.37	1.50	1.05	.97	.84	.53	.29	.16	.00	.03	.05	.05	.00	11.44
(2)	.21	.71	2.00	1.66	1.37	1.50	1.05	.97	.84	.53	.29	.16	.00	.03	.05	.05	.00	11.44
1.1- 1.5	13	91	126	44	40	30	43	35	53	35	33	12	5	1	3	1	0	565
(1)	.34	2.40	3.32	1.16	1.05	.79	1.13	.92	1.40	.92	.87	.32	.13	.03	.08	.03	.00	14.89
(2)	.34	2.40	3.32	1.16	1.05	.79	1.13	.92	1.40	.92	.87	.32	.13	.03	.08	.03	.00	14.89
1.6- 2.0	32	165	91	31	19	15	14	18	16	46	54	13	6	2	5	7	0	534
(1)	.84	4.35	2.40	.82	.50	.40	.37	.47	.42	1.21	1.42	.34	.16	.05	.13	.18	.00	14.07
(2)	.84	4.35	2.40	.82	.50	.40	.37	.47	.42	1.21	1.42	.34	.16	.05	.13	.18	.00	14.07
2.1- 3.0	66	210	68	35	28	15	30	18	25	81	124	38	6	13	17	17	0	791
(1)	1.74	5.53	1.79	.92	.74	.40	.79	.47	.66	2.13	3.27	1.00	.16	.34	.45	.45	.00	20.84
(2)	1.74	5.53	1.79	.92	.74	.40	.79	.47	.66	2.13	3.27	1.00	.16	.34	.45	.45	.00	20.84
3.1- 4.0	41	52	22	8	15	14	31	23	24	52	138	63	15	11	20	21	0	550
(1)	1.08	1.37	.58	.21	.40	.37	.82	.61	.63	1.37	3.64	1.66	.40	.29	.53	.55	.00	14.49
(2)	1.08	1.37	.58	.21	.40	.37	.82	.61	.63	1.37	3.64	1.66	.40	.29	.53	.55	.00	14.49
4.1- 5.0	32	23	10	12	4	10	14	6	39	49	107	98	15	13	26	20	0	478
(1)	.84	.61	.26	.32	.11	.26	.37	.16	1.03	1.29	2.82	2.58	.40	.34	.69	.53	.00	12.60
(2)	.84	.61	.26	.32	.11	.26	.37	.16	1.03	1.29	2.82	2.58	.40	.34	.69	.53	.00	12.60
5.1- 6.0	20	16	1	1	0	0	9	2	22	26	58	71	17	5	9	14	0	271
(1)	.53	.42	.03	.03	.00	.00	.24	.05	.58	.69	1.53	1.87	.45	.13	.24	.37	.00	7.14
(2)	.53	.42	.03	.03	.00	.00	.24	.05	.58	.69	1.53	1.87	.45	.13	.24	.37	.00	7.14

Table 2.3-58—{SSES 197' (60-m) 2001-2006 July JFD - continued}

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SSES JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	9	0	1	0	0	2	2	5	16	35	69	3	0	1	1	0	145
(1)	.03	.24	.00	.03	.00	.00	.05	.05	.13	.42	.92	1.82	.08	.00	.03	.03	.00	3.82
(2)	.03	.24	.00	.03	.00	.00	.05	.05	.13	.42	.92	1.82	.08	.00	.03	.03	.00	3.82
8.1-10.0	0	0	0	0	0	0	0	0	1	2	4	8	0	0	0	0	0	15
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.03	.05	.11	.21	.00	.00	.00	.00	.00	.40
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.03	.05	.11	.21	.00	.00	.00	.00	.00	.40
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	213	593	396	196	162	141	185	143	217	328	564	378	67	46	83	83	0	3795
(1)	5.61	15.63	10.43	5.16	4.27	3.72	4.87	3.77	5.72	8.64	14.86	9.96	1.77	1.21	2.19	2.19	.00	100.00
(2)	5.61	15.63	10.43	5.16	4.27	3.72	4.87	3.77	5.72	8.64	14.86	9.96	1.77	1.21	2.19	2.19	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-59 {SSES 197' (60-m) 2001-2006 August JFD}

(Page 1 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS A — CLASS FREQUENCY (PERCENT) = 10.94

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	2	1	2	2	3	1	0	1	0	2	0	0	0	0	0	0	14
(1)	.00	.41	.21	.41	.41	.62	.21	.00	.21	.00	.41	.00	.00	.00	.00	.00	.00	2.89
(2)	.00	.05	.02	.05	.05	.07	.02	.00	.02	.00	.05	.00	.00	.00	.00	.00	.00	.32
1.1- 1.5	0	1	11	7	4	1	2	1	3	7	2	1	0	1	0	0	0	41
(1)	.00	.21	2.27	1.45	.83	.21	.41	.21	.62	1.45	.41	.21	.00	.21	.00	.00	.00	8.47
(2)	.00	.02	.25	.16	.09	.02	.05	.02	.07	.16	.05	.02	.00	.02	.00	.00	.00	.93
1.6- 2.0	0	3	6	5	5	3	3	3	6	2	3	0	0	0	0	0	0	39
(1)	.00	.62	1.24	1.03	1.03	.62	.62	.62	1.24	.41	.62	.00	.00	.00	.00	.00	.00	8.06
(2)	.00	.07	.14	.11	.11	.07	.07	.07	.14	.05	.07	.00	.00	.00	.00	.00	.00	.88
2.1- 3.0	1	5	14	2	0	1	6	2	5	16	21	5	0	0	1	0	0	79
(1)	.21	1.03	2.89	.41	.00	.21	1.24	.41	1.03	3.31	4.34	1.03	.00	.00	.21	.00	.00	16.32
(2)	.02	.11	.32	.05	.00	.02	.14	.05	.11	.36	.47	.11	.00	.00	.02	.00	.00	1.79
3.1- 4.0	13	5	10	0	0	0	0	2	7	3	23	5	1	3	2	3	0	77
(1)	2.69	1.03	2.07	.00	.00	.00	.00	.41	1.45	.62	4.75	1.03	.21	.62	.41	.62	.00	15.91
(2)	.29	.11	.23	.00	.00	.00	.00	.05	.16	.07	.52	.11	.02	.07	.05	.07	.00	1.74
4.1- 5.0	13	9	2	0	0	0	0	2	4	10	47	15	9	3	0	3	0	117
(1)	2.69	1.86	.41	.00	.00	.00	.00	.41	.83	2.07	9.71	3.10	1.86	.62	.00	.62	.00	24.17
(2)	.29	.20	.05	.00	.00	.00	.00	.05	.09	.23	1.06	.34	.20	.07	.00	.07	.00	2.64
5.1- 6.0	0	10	0	0	0	0	0	2	4	5	31	23	8	0	0	0	0	83
(1)	.00	2.07	.00	.00	.00	.00	.00	.41	.83	1.03	6.40	4.75	1.65	.00	.00	.00	.00	17.15
(2)	.00	.23	.00	.00	.00	.00	.00	.05	.09	.11	.70	.52	.18	.00	.00	.00	.00	1.88

Table 2.3-59 {SSES 197' (60-m) 2001-2006 August JFD}

(Page 2 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 10.94**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	2	1	0	0	0	3	0	0	3	4	10	11	0	0	0	0	0	34
(1)	.41	.21	.00	.00	.00	.62	.00	.00	.62	.83	2.07	2.27	.00	.00	.00	.00	.00	7.02
(2)	.05	.02	.00	.00	.00	.07	.00	.00	.07	.09	.23	.25	.00	.00	.00	.00	.00	.77
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	29	36	44	16	11	11	12	12	33	47	139	60	18	7	3	6	0	484
(1)	5.99	7.44	9.09	3.31	2.27	2.27	2.48	2.48	6.82	9.71	28.72	12.40	3.72	1.45	.62	1.24	.00	100.00
(2)	.66	.81	.99	.36	.25	.25	.27	.27	.75	1.06	3.14	1.36	.41	.16	.07	.14	.00	10.94

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-59—{SSES 197' (60-m) 2001-2006 August JFD - continued}

(Page 1 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.89**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	2	2	2	1	0	0	0	0	0	0	0	0	0	0	7
(1)	.00	.00	.00	1.16	1.16	1.16	.58	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.07
(2)	.00	.00	.00	.05	.05	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16
1.1- 1.5	1	2	3	3	3	0	0	0	0	1	0	0	0	0	1	0	0	14
(1)	.58	1.16	1.74	1.74	1.74	.00	.00	.00	.00	.58	.00	.00	.00	.00	.58	.00	.00	8.14
(2)	.02	.05	.07	.07	.07	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02	.00	.00	.32
1.6- 2.0	1	3	1	3	0	2	1	0	0	0	1	0	0	0	0	0	0	12
(1)	.58	1.74	.58	1.74	.00	1.16	.58	.00	.00	.00	.58	.00	.00	.00	.00	.00	.00	6.98
(2)	.02	.07	.02	.07	.00	.05	.02	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.27
2.1- 3.0	2	3	4	4	0	0	0	1	2	3	7	0	0	1	1	0	0	28
(1)	1.16	1.74	2.33	2.33	.00	.00	.00	.58	1.16	1.74	4.07	.00	.00	.58	.58	.00	.00	16.28
(2)	.05	.07	.09	.09	.00	.00	.00	.02	.05	.07	.16	.00	.00	.02	.02	.00	.00	.63
3.1- 4.0	4	8	3	1	0	0	0	1	0	1	10	2	0	1	0	1	0	32
(1)	2.33	4.65	1.74	.58	.00	.00	.00	.58	.00	.58	5.81	1.16	.00	.58	.00	.58	.00	18.60
(2)	.09	.18	.07	.02	.00	.00	.00	.02	.00	.02	.23	.05	.00	.02	.00	.02	.00	.72
4.1- 5.0	4	5	0	0	1	0	1	1	1	2	16	5	3	3	1	3	0	46
(1)	2.33	2.91	.00	.00	.58	.00	.58	.58	.58	1.16	9.30	2.91	1.74	1.74	.58	1.74	.00	26.74
(2)	.09	.11	.00	.00	.02	.00	.02	.02	.02	.05	.36	.11	.07	.07	.02	.07	.00	1.04
5.1- 6.0	0	1	0	0	0	0	0	0	0	4	4	5	2	0	1	1	0	18
(1)	.00	.58	.00	.00	.00	.00	.00	.00	.00	2.33	2.33	2.91	1.16	.00	.58	.58	.00	10.47
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.09	.09	.11	.05	.00	.02	.02	.00	.41

Table 2.3-59—{SSES 197' (60-m) 2001-2006 August JFD - continued}

(Page 2 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.89**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	3	0	0	0	0	1	0	0	1	4	2	3	0	0	0	0	0	14
(1)	1.74	.00	.00	.00	.00	.58	.00	.00	.58	2.33	1.16	1.74	.00	.00	.00	.00	.00	8.14
(2)	.07	.00	.00	.00	.00	.02	.00	.00	.02	.09	.05	.07	.00	.00	.00	.00	.00	.32
8.1-10.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.58	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.58
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	16	22	11	13	6	5	3	3	4	15	40	15	5	5	4	5	0	172
(1)	9.30	12.79	6.40	7.56	3.49	2.91	1.74	1.74	2.33	8.72	23.26	8.72	2.91	2.91	2.33	2.91	.00	100.00
(2)	.36	.50	.25	.29	.14	.11	.07	.07	.09	.34	.90	.34	.11	.11	.09	.11	.00	3.89

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-59—{SSES 197' (60-m) 2001-2006 August JFD - continued}

(Page 1 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 4.91**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	5	0	0	0	0	5	0	1	0	0	0	0	0	0	11
(1)	.00	.00	.00	2.30	.00	.00	.00	.00	2.30	.00	.46	.00	.00	.00	.00	.00	.00	5.07
(2)	.00	.00	.00	.11	.00	.00	.00	.00	.11	.00	.02	.00	.00	.00	.00	.00	.00	.25
1.1- 1.5	1	4	4	2	5	1	0	2	0	3	0	0	0	1	0	1	0	24
(1)	.46	1.84	1.84	.92	2.30	.46	.00	.92	.00	1.38	.00	.00	.00	.46	.00	.46	.00	11.06
(2)	.02	.09	.09	.05	.11	.02	.00	.05	.00	.07	.00	.00	.00	.02	.00	.02	.00	.54
1.6- 2.0	2	5	2	3	1	0	0	1	2	6	1	0	0	0	0	0	0	23
(1)	.92	2.30	.92	1.38	.46	.00	.00	.46	.92	2.76	.46	.00	.00	.00	.00	.00	.00	10.60
(2)	.05	.11	.05	.07	.02	.00	.00	.02	.05	.14	.02	.00	.00	.00	.00	.00	.00	.52
2.1- 3.0	1	5	3	1	0	0	0	2	2	3	7	1	0	1	0	0	0	26
(1)	.46	2.30	1.38	.46	.00	.00	.00	.92	.92	1.38	3.23	.46	.00	.46	.00	.00	.00	11.98
(2)	.02	.11	.07	.02	.00	.00	.00	.05	.05	.07	.16	.02	.00	.02	.00	.00	.00	.59
3.1- 4.0	5	8	5	0	1	0	0	1	1	0	11	6	0	0	2	4	0	44
(1)	2.30	3.69	2.30	.00	.46	.00	.00	.46	.46	.00	5.07	2.76	.00	.00	.92	1.84	.00	20.28
(2)	.11	.18	.11	.00	.02	.00	.00	.02	.02	.00	.25	.14	.00	.00	.05	.09	.00	.99
4.1- 5.0	5	3	1	0	0	0	1	1	3	3	16	13	3	2	1	3	0	55
(1)	2.30	1.38	.46	.00	.00	.00	.46	.46	1.38	1.38	7.37	5.99	1.38	.92	.46	1.38	.00	25.35
(2)	.11	.07	.02	.00	.00	.00	.02	.02	.07	.07	.36	.29	.07	.05	.02	.07	.00	1.24
5.1- 6.0	0	2	0	0	0	0	0	1	0	2	5	6	1	0	0	0	0	17
(1)	.00	.92	.00	.00	.00	.00	.00	.46	.00	.92	2.30	2.76	.46	.00	.00	.00	.00	7.83
(2)	.00	.05	.00	.00	.00	.00	.00	.02	.00	.05	.11	.14	.02	.00	.00	.00	.00	.38

Table 2.3-59—{SSES 197' (60-m) 2001-2006 August JFD - continued}

(Page 2 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 4.91**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	1	0	0	0	0	0	0	0	1	5	4	0	2	0	0	0	14
(1)	.46	.46	.00	.00	.00	.00	.00	.00	.00	.46	2.30	1.84	.00	.92	.00	.00	.00	6.45
(2)	.02	.02	.00	.00	.00	.00	.00	.00	.00	.02	.11	.09	.00	.05	.00	.00	.00	.32
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.38	.00	.00	.00	.00	.00	1.38
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.07
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	15	28	15	11	7	1	1	8	13	18	46	33	4	6	3	8	0	217
(1)	6.91	12.90	6.91	5.07	3.23	.46	.46	3.69	5.99	8.29	21.20	15.21	1.84	2.76	1.38	3.69	.00	100.00
(2)	.34	.63	.34	.25	.16	.02	.02	.18	.29	.41	1.04	.75	.09	.14	.07	.18	.00	4.91

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-59—{SSES 197' (60-m) 2001-2006 August JFD - continued}

(Page 1 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 27.44**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.16	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
(2)	.00	.05	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
.5- 1.0	5	12	20	15	12	7	9	10	13	6	8	5	1	0	0	1	0	124
(1)	.41	.99	1.65	1.24	.99	.58	.74	.82	1.07	.49	.66	.41	.08	.00	.00	.08	.00	10.21
(2)	.11	.27	.45	.34	.27	.16	.20	.23	.29	.14	.18	.11	.02	.00	.00	.02	.00	2.80
1.1- 1.5	6	36	29	7	14	7	5	9	14	15	12	5	2	2	3	5	0	171
(1)	.49	2.97	2.39	.58	1.15	.58	.41	.74	1.15	1.24	.99	.41	.16	.16	.25	.41	.00	14.09
(2)	.14	.81	.66	.16	.32	.16	.11	.20	.32	.34	.27	.11	.05	.05	.07	.11	.00	3.87
1.6- 2.0	10	21	11	8	11	5	9	7	9	19	16	12	1	0	0	3	0	142
(1)	.82	1.73	.91	.66	.91	.41	.74	.58	.74	1.57	1.32	.99	.08	.00	.00	.25	.00	11.70
(2)	.23	.47	.25	.18	.25	.11	.20	.16	.20	.43	.36	.27	.02	.00	.00	.07	.00	3.21
2.1- 3.0	20	36	13	8	6	10	9	6	9	19	48	14	8	5	2	7	0	220
(1)	1.65	2.97	1.07	.66	.49	.82	.74	.49	.74	1.57	3.95	1.15	.66	.41	.16	.58	.00	18.12
(2)	.45	.81	.29	.18	.14	.23	.20	.14	.20	.43	1.08	.32	.18	.11	.05	.16	.00	4.97
3.1- 4.0	28	26	16	3	6	8	5	9	15	22	42	19	9	9	9	16	0	242
(1)	2.31	2.14	1.32	.25	.49	.66	.41	.74	1.24	1.81	3.46	1.57	.74	.74	.74	1.32	.00	19.93
(2)	.63	.59	.36	.07	.14	.18	.11	.20	.34	.50	.95	.43	.20	.20	.20	.36	.00	5.47
4.1- 5.0	18	21	8	0	2	8	0	10	12	17	39	27	4	6	5	17	0	194
(1)	1.48	1.73	.66	.00	.16	.66	.00	.82	.99	1.40	3.21	2.22	.33	.49	.41	1.40	.00	15.98
(2)	.41	.47	.18	.00	.05	.18	.00	.23	.27	.38	.88	.61	.09	.14	.11	.38	.00	4.39
5.1- 6.0	9	11	1	0	2	4	0	2	6	8	14	18	1	0	3	7	0	86
(1)	.74	.91	.08	.00	.16	.33	.00	.16	.49	.66	1.15	1.48	.08	.00	.25	.58	.00	7.08
(2)	.20	.25	.02	.00	.05	.09	.00	.05	.14	.18	.32	.41	.02	.00	.07	.16	.00	1.94

Table 2.3-59—{SSES 197' (60-m) 2001-2006 August JFD - continued}

(Page 2 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 27.44**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	2	0	0	2	2	0	0	6	8	4	4	3	1	0	0	0	32
(1)	.00	.16	.00	.00	.16	.16	.00	.00	.49	.66	.33	.33	.25	.08	.00	.00	.00	2.64
(2)	.00	.05	.00	.00	.05	.05	.00	.00	.14	.18	.09	.09	.07	.02	.00	.00	.00	.72
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	96	167	98	41	56	51	37	53	84	114	183	104	29	23	22	56	0	1214
(1)	7.91	13.76	8.07	3.38	4.61	4.20	3.05	4.37	6.92	9.39	15.07	8.57	2.39	1.89	1.81	4.61	.00	100.00
(2)	2.17	3.77	2.22	.93	1.27	1.15	.84	1.20	1.90	2.58	4.14	2.35	.66	.52	.50	1.27	.00	27.44

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-59—{SSES 197' (60-m) 2001-2006 August JFD - continued}

(Page 1 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS E — CLASS FREQUENCY (PERCENT) = 32.32

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.2- .4	0	0	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	5
(1)	.00	.00	.07	.21	.00	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.35
(2)	.00	.00	.02	.07	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11
.5- 1.0	10	30	41	30	21	23	16	12	17	8	7	3	1	1	1	5	0	226
(1)	.70	2.10	2.87	2.10	1.47	1.61	1.12	.84	1.19	.56	.49	.21	.07	.07	.07	.35	.00	15.80
(2)	.23	.68	.93	.68	.47	.52	.36	.27	.38	.18	.16	.07	.02	.02	.02	.11	.00	5.11
1.1- 1.5	13	59	61	16	18	8	12	15	17	13	6	3	4	4	1	1	0	251
(1)	.91	4.13	4.27	1.12	1.26	.56	.84	1.05	1.19	.91	.42	.21	.28	.28	.07	.07	.00	17.55
(2)	.29	1.33	1.38	.36	.41	.18	.27	.34	.38	.29	.14	.07	.09	.09	.02	.02	.00	5.67
1.6- 2.0	22	106	31	9	5	5	10	9	25	16	15	4	1	3	1	1	0	263
(1)	1.54	7.41	2.17	.63	.35	.35	.70	.63	1.75	1.12	1.05	.28	.07	.21	.07	.07	.00	18.39
(2)	.50	2.40	.70	.20	.11	.11	.23	.20	.57	.36	.34	.09	.02	.07	.02	.02	.00	5.94
2.1- 3.0	40	88	30	14	9	8	13	25	26	19	34	9	2	2	3	3	0	325
(1)	2.80	6.15	2.10	.98	.63	.56	.91	1.75	1.82	1.33	2.38	.63	.14	.14	.21	.21	.00	22.73
(2)	.90	1.99	.68	.32	.20	.18	.29	.57	.59	.43	.77	.20	.05	.05	.07	.07	.00	7.35
3.1- 4.0	13	28	22	2	4	3	6	15	19	40	29	17	3	2	2	5	0	210
(1)	.91	1.96	1.54	.14	.28	.21	.42	1.05	1.33	2.80	2.03	1.19	.21	.14	.14	.35	.00	14.69
(2)	.29	.63	.50	.05	.09	.07	.14	.34	.43	.90	.66	.38	.07	.05	.05	.11	.00	4.75
4.1- 5.0	8	11	5	0	0	0	0	3	15	23	18	10	0	1	1	2	0	97
(1)	.56	.77	.35	.00	.00	.00	.00	.21	1.05	1.61	1.26	.70	.00	.07	.07	.14	.00	6.78
(2)	.18	.25	.11	.00	.00	.00	.00	.07	.34	.52	.41	.23	.00	.02	.02	.05	.00	2.19
5.1- 6.0	2	3	1	0	0	0	3	0	1	3	6	11	0	0	1	2	0	33
(1)	.14	.21	.07	.00	.00	.00	.21	.00	.07	.21	.42	.77	.00	.00	.07	.14	.00	2.31
(2)	.05	.07	.02	.00	.00	.00	.07	.00	.02	.07	.14	.25	.00	.00	.02	.05	.00	.75

Table 2.3-59—{SSES 197' (60-m) 2001-2006 August JFD - continued}

(Page 2 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS E — CLASS FREQUENCY (PERCENT) = 32.32

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	3	4	6	1	0	0	0	0	0	0	14
(1)	.00	.00	.00	.00	.00	.00	.00	.21	.28	.42	.07	.00	.00	.00	.00	.00	.00	.98
(2)	.00	.00	.00	.00	.00	.00	.00	.07	.09	.14	.02	.00	.00	.00	.00	.00	.00	.32
8.1-10.0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.07	.28	.00	.00	.00	.00	.00	.00	.00	.00	.35
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.09	.00	.00	.00	.00	.00	.00	.00	.00	.11
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	108	325	193	74	57	48	60	83	128	128	116	57	11	13	10	19	0	1430
(1)	7.55	22.73	13.50	5.17	3.99	3.36	4.20	5.80	8.95	8.95	8.11	3.99	.77	.91	.70	1.33	.00	100.00
(2)	2.44	7.35	4.36	1.67	1.29	1.08	1.36	1.88	2.89	2.89	2.62	1.29	.25	.29	.23	.43	.00	32.32

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-59—{SSES 197' (60-m) 2001-2006 August JFD - continued}

(Page 1 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 15.12**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.00	.15	.00	.15	.00	.15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.45
(2)	.00	.00	.00	.02	.00	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
.5- 1.0	3	12	20	12	14	13	10	8	3	1	1	1	2	0	0	0	0	100
(1)	.45	1.79	2.99	1.79	2.09	1.94	1.49	1.20	.45	.15	.15	.15	.30	.00	.00	.00	.00	14.95
(2)	.07	.27	.45	.27	.32	.29	.23	.18	.07	.02	.02	.02	.05	.00	.00	.00	.00	2.26
1.1- 1.5	7	51	47	16	14	8	11	5	11	2	1	0	0	1	0	2	0	176
(1)	1.05	7.62	7.03	2.39	2.09	1.20	1.64	.75	1.64	.30	.15	.00	.00	.15	.00	.30	.00	26.31
(2)	.16	1.15	1.06	.36	.32	.18	.25	.11	.25	.05	.02	.00	.00	.02	.00	.05	.00	3.98
1.6- 2.0	13	102	18	1	3	1	1	3	3	6	5	4	1	0	0	0	0	161
(1)	1.94	15.25	2.69	.15	.45	.15	.15	.45	.45	.90	.75	.60	.15	.00	.00	.00	.00	24.07
(2)	.29	2.31	.41	.02	.07	.02	.02	.07	.07	.14	.11	.09	.02	.00	.00	.00	.00	3.64
2.1- 3.0	34	115	5	0	0	0	1	1	1	4	11	1	0	0	1	1	0	175
(1)	5.08	17.19	.75	.00	.00	.00	.15	.15	.15	.60	1.64	.15	.00	.00	.15	.15	.00	26.16
(2)	.77	2.60	.11	.00	.00	.00	.02	.02	.02	.09	.25	.02	.00	.00	.02	.02	.00	3.96
3.1- 4.0	8	2	1	0	0	0	0	1	0	2	12	7	0	0	0	0	0	33
(1)	1.20	.30	.15	.00	.00	.00	.00	.15	.00	.30	1.79	1.05	.00	.00	.00	.00	.00	4.93
(2)	.18	.05	.02	.00	.00	.00	.00	.02	.00	.05	.27	.16	.00	.00	.00	.00	.00	.75
4.1- 5.0	1	1	1	0	0	0	0	0	0	0	5	11	0	0	0	0	0	19
(1)	.15	.15	.15	.00	.00	.00	.00	.00	.00	.00	.75	1.64	.00	.00	.00	.00	.00	2.84
(2)	.02	.02	.02	.00	.00	.00	.00	.00	.00	.00	.11	.25	.00	.00	.00	.00	.00	.43
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00	.00	.00	.00	.00	.30
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05

Table 2.3-59—{SSES 197' (60-m) 2001-2006 August JFD - continued}

(Page 2 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 15.12**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	66	283	92	30	31	23	23	19	18	15	35	26	3	1	1	3	0	669
(1)	9.87	42.30	13.75	4.48	4.63	3.44	3.44	2.84	2.69	2.24	5.23	3.89	.45	.15	.15	.45	.00	100.00
(2)	1.49	6.40	2.08	.68	.70	.52	.52	.43	.41	.34	.79	.59	.07	.02	.02	.07	.00	15.12

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-59—{SSES 197' (60-m) 2001-2006 August JFD - continued}

(Page 1 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 5.38

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	1	1	4	8	4	4	1	3	1	0	0	0	0	0	0	1	0	28
(1)	.42	.42	1.68	3.36	1.68	1.68	.42	1.26	.42	.00	.00	.00	.00	.00	.00	.42	.00	11.76
(2)	.02	.02	.09	.18	.09	.09	.02	.07	.02	.00	.00	.00	.00	.00	.00	.02	.00	.63
1.1- 1.5	1	23	17	10	5	4	3	3	2	4	3	0	0	0	0	0	0	75
(1)	.42	9.66	7.14	4.20	2.10	1.68	1.26	1.26	.84	1.68	1.26	.00	.00	.00	.00	.00	.00	31.51
(2)	.02	.52	.38	.23	.11	.09	.07	.07	.05	.09	.07	.00	.00	.00	.00	.00	.00	1.70
1.6- 2.0	7	36	10	2	1	1	0	0	1	3	3	0	0	0	0	0	0	64
(1)	2.94	15.13	4.20	.84	.42	.42	.00	.00	.42	1.26	1.26	.00	.00	.00	.00	.00	.00	26.89
(2)	.16	.81	.23	.05	.02	.02	.00	.00	.02	.07	.07	.00	.00	.00	.00	.00	.00	1.45
2.1- 3.0	11	34	3	0	0	0	0	0	2	2	3	0	0	0	1	0	0	56
(1)	4.62	14.29	1.26	.00	.00	.00	.00	.00	.84	.84	1.26	.00	.00	.00	.42	.00	.00	23.53
(2)	.25	.77	.07	.00	.00	.00	.00	.00	.05	.05	.07	.00	.00	.00	.02	.00	.00	1.27
3.1- 4.0	6	4	0	0	0	0	0	0	0	2	2	1	0	0	0	0	0	15
(1)	2.52	1.68	.00	.00	.00	.00	.00	.00	.00	.84	.84	.42	.00	.00	.00	.00	.00	6.30
(2)	.14	.09	.00	.00	.00	.00	.00	.00	.00	.05	.05	.02	.00	.00	.00	.00	.00	.34
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-59—{SSES 197' (60-m) 2001-2006 August JFD - continued}

(Page 2 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 5.38**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	26	98	34	20	10	9	4	6	6	11	11	1	0	0	1	1	0	238
(1)	10.92	41.18	14.29	8.40	4.20	3.78	1.68	2.52	2.52	4.62	4.62	.42	.00	.00	.42	.42	.00	100.00
(2)	.59	2.22	.77	.45	.23	.20	.09	.14	.14	.25	.25	.02	.00	.00	.02	.02	.00	5.38

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-59—{SSES 197' (60-m) 2001-2006 August JFD - continued}

(Page 1 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.2- .4	0	2	1	4	1	2	0	1	0	0	0	0	0	0	0	0	0	11
(1)	.00	.05	.02	.09	.02	.05	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
(2)	.00	.05	.02	.09	.02	.05	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
.5- 1.0	19	57	86	74	55	52	38	33	40	15	19	9	4	1	1	7	0	510
(1)	.43	1.29	1.94	1.67	1.24	1.18	.86	.75	.90	.34	.43	.20	.09	.02	.02	.16	.00	11.53
(2)	.43	1.29	1.94	1.67	1.24	1.18	.86	.75	.90	.34	.43	.20	.09	.02	.02	.16	.00	11.53
1.1- 1.5	29	176	172	61	63	29	33	35	47	45	24	9	6	9	5	9	0	752
(1)	.66	3.98	3.89	1.38	1.42	.66	.75	.79	1.06	1.02	.54	.20	.14	.20	.11	.20	.00	17.00
(2)	.66	3.98	3.89	1.38	1.42	.66	.75	.79	1.06	1.02	.54	.20	.14	.20	.11	.20	.00	17.00
1.6- 2.0	55	276	79	31	26	17	24	23	46	52	44	20	3	3	1	4	0	704
(1)	1.24	6.24	1.79	.70	.59	.38	.54	.52	1.04	1.18	.99	.45	.07	.07	.02	.09	.00	15.91
(2)	1.24	6.24	1.79	.70	.59	.38	.54	.52	1.04	1.18	.99	.45	.07	.07	.02	.09	.00	15.91
2.1- 3.0	109	286	72	29	15	19	29	37	47	66	131	30	10	9	9	11	0	909
(1)	2.46	6.46	1.63	.66	.34	.43	.66	.84	1.06	1.49	2.96	.68	.23	.20	.20	.25	.00	20.55
(2)	2.46	6.46	1.63	.66	.34	.43	.66	.84	1.06	1.49	2.96	.68	.23	.20	.20	.25	.00	20.55
3.1- 4.0	77	81	57	6	11	11	11	29	42	70	129	57	13	15	15	29	0	653
(1)	1.74	1.83	1.29	.14	.25	.25	.25	.66	.95	1.58	2.92	1.29	.29	.34	.34	.66	.00	14.76
(2)	1.74	1.83	1.29	.14	.25	.25	.25	.66	.95	1.58	2.92	1.29	.29	.34	.34	.66	.00	14.76
4.1- 5.0	49	50	17	0	3	8	2	17	35	55	141	81	19	15	8	28	0	528
(1)	1.11	1.13	.38	.00	.07	.18	.05	.38	.79	1.24	3.19	1.83	.43	.34	.18	.63	.00	11.93
(2)	1.11	1.13	.38	.00	.07	.18	.05	.38	.79	1.24	3.19	1.83	.43	.34	.18	.63	.00	11.93
5.1- 6.0	11	27	2	0	2	4	3	5	11	22	60	65	12	0	5	10	0	239
(1)	.25	.61	.05	.00	.05	.09	.07	.11	.25	.50	1.36	1.47	.27	.00	.11	.23	.00	5.40
(2)	.25	.61	.05	.00	.05	.09	.07	.11	.25	.50	1.36	1.47	.27	.00	.11	.23	.00	5.40

Table 2.3-59—{SSES 197' (60-m) 2001-2006 August JFD - continued}

(Page 2 of 2)

SSES AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	6	4	0	0	2	6	0	3	14	23	22	22	3	3	0	0	0	108
(1)	.14	.09	.00	.00	.05	.14	.00	.07	.32	.52	.50	.50	.07	.07	.00	.00	.00	2.44
(2)	.14	.09	.00	.00	.05	.14	.00	.07	.32	.52	.50	.50	.07	.07	.00	.00	.00	2.44
8.1-10.0	1	0	0	0	0	0	0	1	4	0	0	3	0	0	0	0	0	9
(1)	.02	.00	.00	.00	.00	.00	.00	.02	.09	.00	.00	.07	.00	.00	.00	.00	.00	.20
(2)	.02	.00	.00	.00	.00	.00	.00	.02	.09	.00	.00	.07	.00	.00	.00	.00	.00	.20
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	356	959	487	205	178	148	140	184	286	348	570	296	70	55	44	98	0	4424
(1)	8.05	21.68	11.01	4.63	4.02	3.35	3.16	4.16	6.46	7.87	12.88	6.69	1.58	1.24	.99	2.22	.00	100.00
(2)	8.05	21.68	11.01	4.63	4.02	3.35	3.16	4.16	6.46	7.87	12.88	6.69	1.58	1.24	.99	2.22	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-60 {SSES 197' (60-m) 2001-2006 September JFD}

(Page 1 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS A — CLASS FREQUENCY (PERCENT) = 7.03

	WIND DIRECTION FROM																	
SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	2	2	1	2	1	1	2	0	1	0	0	0	0	0	0	12
(1)	.00	.00	.66	.66	.33	.66	.33	.33	.66	.00	.33	.00	.00	.00	.00	.00	.00	3.96
(2)	.00	.00	.05	.05	.02	.05	.02	.02	.05	.00	.02	.00	.00	.00	.00	.00	.00	.28
1.1- 1.5	1	2	4	6	1	3	1	2	5	4	2	0	0	0	0	0	0	31
(1)	.33	.66	1.32	1.98	.33	.99	.33	.66	1.65	1.32	.66	.00	.00	.00	.00	.00	.00	10.23
(2)	.02	.05	.09	.14	.02	.07	.02	.05	.12	.09	.05	.00	.00	.00	.00	.00	.00	.72
1.6- 2.0	0	5	4	6	2	2	3	3	4	4	4	1	0	0	0	0	0	38
(1)	.00	1.65	1.32	1.98	.66	.66	.99	.99	1.32	1.32	1.32	.33	.00	.00	.00	.00	.00	12.54
(2)	.00	.12	.09	.14	.05	.05	.07	.07	.09	.09	.09	.02	.00	.00	.00	.00	.00	.88
2.1- 3.0	1	11	8	2	1	1	2	4	3	7	11	4	0	0	2	1	0	58
(1)	.33	3.63	2.64	.66	.33	.33	.66	1.32	.99	2.31	3.63	1.32	.00	.00	.66	.33	.00	19.14
(2)	.02	.26	.19	.05	.02	.02	.05	.09	.07	.16	.26	.09	.00	.00	.05	.02	.00	1.35
3.1- 4.0	1	4	1	0	0	0	3	4	2	6	18	4	2	0	3	2	0	50
(1)	.33	1.32	.33	.00	.00	.00	.99	1.32	.66	1.98	5.94	1.32	.66	.00	.99	.66	.00	16.50
(2)	.02	.09	.02	.00	.00	.00	.07	.09	.05	.14	.42	.09	.05	.00	.07	.05	.00	1.16
4.1- 5.0	6	5	1	0	0	0	0	5	9	8	14	4	1	2	0	1	0	56
(1)	1.98	1.65	.33	.00	.00	.00	.00	1.65	2.97	2.64	4.62	1.32	.33	.66	.00	.33	.00	18.48
(2)	.14	.12	.02	.00	.00	.00	.00	.12	.21	.19	.32	.09	.02	.05	.00	.02	.00	1.30
5.1- 6.0	2	1	4	0	0	0	0	6	6	4	10	5	0	0	0	0	0	38
(1)	.66	.33	1.32	.00	.00	.00	.00	1.98	1.98	1.32	3.30	1.65	.00	.00	.00	.00	.00	12.54
(2)	.05	.02	.09	.00	.00	.00	.00	.14	.14	.09	.23	.12	.00	.00	.00	.00	.00	.88

Table 2.3-60 {SSES 197' (60-m) 2001-2006 September JFD}

(Page 2 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 7.03**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	1	5	6	3	4	0	0	0	0	0	19
(1)	.00	.00	.00	.00	.00	.00	.00	.33	1.65	1.98	.99	1.32	.00	.00	.00	.00	.00	6.27
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.12	.14	.07	.09	.00	.00	.00	.00	.00	.44
8.1-10.0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.33	.00	.00	.00	.00	.00	.00	.00	.33
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	11	28	24	16	5	8	10	26	36	40	63	22	3	2	5	4	0	303
(1)	3.63	9.24	7.92	5.28	1.65	2.64	3.30	8.58	11.88	13.20	20.79	7.26	.99	.66	1.65	1.32	.00	100.00
(2)	.26	.65	.56	.37	.12	.19	.23	.60	.84	.93	1.46	.51	.07	.05	.12	.09	.00	7.03

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-60—{SSES 197' (60-m) 2001-2006 September JFD - continued}

(Page 1 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 3.74**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	0	0	0	4
(1)	.00	.00	.62	.62	.00	.00	.00	.00	.00	1.24	.00	.00	.00	.00	.00	.00	.00	2.48
(2)	.00	.00	.02	.02	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.09
1.1- 1.5	0	2	2	2	0	2	1	0	0	2	0	0	0	0	0	0	0	11
(1)	.00	1.24	1.24	1.24	.00	1.24	.62	.00	.00	1.24	.00	.00	.00	.00	.00	.00	.00	6.83
(2)	.00	.05	.05	.05	.00	.05	.02	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.26
1.6- 2.0	1	3	3	2	0	1	0	0	3	3	4	0	0	0	0	0	0	20
(1)	.62	1.86	1.86	1.24	.00	.62	.00	.00	1.86	1.86	2.48	.00	.00	.00	.00	.00	.00	12.42
(2)	.02	.07	.07	.05	.00	.02	.00	.00	.07	.07	.09	.00	.00	.00	.00	.00	.00	.46
2.1- 3.0	1	1	5	0	0	1	1	0	2	2	9	1	1	0	0	3	0	27
(1)	.62	.62	3.11	.00	.00	.62	.62	.00	1.24	1.24	5.59	.62	.62	.00	.00	1.86	.00	16.77
(2)	.02	.02	.12	.00	.00	.02	.02	.00	.05	.05	.21	.02	.02	.00	.00	.07	.00	.63
3.1- 4.0	2	2	3	0	0	0	0	1	1	2	14	1	2	1	3	0	0	32
(1)	1.24	1.24	1.86	.00	.00	.00	.00	.62	.62	1.24	8.70	.62	1.24	.62	1.86	.00	.00	19.88
(2)	.05	.05	.07	.00	.00	.00	.00	.02	.02	.05	.32	.02	.05	.02	.07	.00	.00	.74
4.1- 5.0	3	7	1	0	0	0	2	1	2	2	7	1	2	4	2	5	0	39
(1)	1.86	4.35	.62	.00	.00	.00	1.24	.62	1.24	1.24	4.35	.62	1.24	2.48	1.24	3.11	.00	24.22
(2)	.07	.16	.02	.00	.00	.00	.05	.02	.05	.05	.16	.02	.05	.09	.05	.12	.00	.90
5.1- 6.0	1	2	0	0	0	0	1	0	1	1	2	5	3	2	0	1	0	19
(1)	.62	1.24	.00	.00	.00	.00	.62	.00	.62	.62	1.24	3.11	1.86	1.24	.00	.62	.00	11.80
(2)	.02	.05	.00	.00	.00	.00	.02	.00	.02	.02	.05	.12	.07	.05	.00	.02	.00	.44

Table 2.3-60—{SSES 197' (60-m) 2001-2006 September JFD - continued}

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SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS B — CLASS FREQUENCY (PERCENT) = 3.74

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	2	0	1	2	1	1	0	0	0	0	7
(1)	.00	.00	.00	.00	.00	.00	.00	1.24	.00	.62	1.24	.62	.62	.00	.00	.00	.00	4.35
(2)	.00	.00	.00	.00	.00	.00	.00	.05	.00	.02	.05	.02	.02	.00	.00	.00	.00	.16
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.62	.00	.00	.62
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.62	.00	.62
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02
ALL SPEEDS	8	17	15	5	0	4	5	4	9	15	38	9	9	7	6	10	0	161
(1)	4.97	10.56	9.32	3.11	.00	2.48	3.11	2.48	5.59	9.32	23.60	5.59	5.59	4.35	3.73	6.21	.00	100.00
(2)	.19	.39	.35	.12	.00	.09	.12	.09	.21	.35	.88	.21	.21	.16	.14	.23	.00	3.74

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-60—{SSES 197' (60-m) 2001-2006 September JFD - continued}

(Page 1 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 5.10**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.45	.45	.45	.00	.45	.00	.00	.00	.00	.00	.00	.00	.00	1.82
(2)	.00	.00	.00	.00	.02	.02	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.09
1.1- 1.5	3	1	3	4	3	0	2	2	0	4	2	0	0	0	0	0	0	24
(1)	1.36	.45	1.36	1.82	1.36	.00	.91	.91	.00	1.82	.91	.00	.00	.00	.00	.00	.00	10.91
(2)	.07	.02	.07	.09	.07	.00	.05	.05	.00	.09	.05	.00	.00	.00	.00	.00	.00	.56
1.6- 2.0	0	1	4	3	1	2	1	3	3	7	2	0	0	1	0	0	0	28
(1)	.00	.45	1.82	1.36	.45	.91	.45	1.36	1.36	3.18	.91	.00	.00	.45	.00	.00	.00	12.73
(2)	.00	.02	.09	.07	.02	.05	.02	.07	.07	.16	.05	.00	.00	.02	.00	.00	.00	.65
2.1- 3.0	2	10	3	1	0	1	0	0	2	3	14	4	0	0	1	0	0	41
(1)	.91	4.55	1.36	.45	.00	.45	.00	.00	.91	1.36	6.36	1.82	.00	.00	.45	.00	.00	18.64
(2)	.05	.23	.07	.02	.00	.02	.00	.00	.05	.07	.32	.09	.00	.00	.02	.00	.00	.95
3.1- 4.0	1	5	4	0	0	1	1	0	3	1	13	5	1	5	3	4	0	47
(1)	.45	2.27	1.82	.00	.00	.45	.45	.00	1.36	.45	5.91	2.27	.45	2.27	1.36	1.82	.00	21.36
(2)	.02	.12	.09	.00	.00	.02	.02	.00	.07	.02	.30	.12	.02	.12	.07	.09	.00	1.09
4.1- 5.0	8	7	1	0	0	0	1	2	2	5	4	2	3	6	1	2	0	44
(1)	3.64	3.18	.45	.00	.00	.00	.45	.91	.91	2.27	1.82	.91	1.36	2.73	.45	.91	.00	20.00
(2)	.19	.16	.02	.00	.00	.00	.02	.05	.05	.12	.09	.05	.07	.14	.02	.05	.00	1.02
5.1- 6.0	5	6	0	1	0	0	0	1	0	1	3	4	0	0	0	2	0	23
(1)	2.27	2.73	.00	.45	.00	.00	.00	.45	.00	.45	1.36	1.82	.00	.00	.00	.91	.00	10.45
(2)	.12	.14	.00	.02	.00	.00	.00	.02	.00	.02	.07	.09	.00	.00	.00	.05	.00	.53

Table 2.3-60—{SSES 197' (60-m) 2001-2006 September JFD - continued}

(Page 2 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 5.10**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	1	0	0	0	0	0	0	0	2	0	3	0	0	0	0	0	7
(1)	.45	.45	.00	.00	.00	.00	.00	.00	.00	.91	.00	1.36	.00	.00	.00	.00	.00	3.18
(2)	.02	.02	.00	.00	.00	.00	.00	.00	.00	.05	.00	.07	.00	.00	.00	.00	.00	.16
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.91	.00	.91
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	20	31	15	9	5	5	6	8	11	23	38	18	4	12	5	10	0	220
(1)	9.09	14.09	6.82	4.09	2.27	2.27	2.73	3.64	5.00	10.45	17.27	8.18	1.82	5.45	2.27	4.55	.00	100.00
(2)	.46	.72	.35	.21	.12	.12	.14	.19	.26	.53	.88	.42	.09	.28	.12	.23	.00	5.10

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-60—{SSES 197' (60-m) 2001-2006 September JFD - continued}

(Page 1 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — **STABILITY CLASS D** — **CLASS FREQUENCY (PERCENT) = 29.10**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00	.08
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	3	6	25	15	10	17	7	9	15	5	2	1	1	1	1	2	0	120
(1)	.24	.48	1.99	1.20	.80	1.36	.56	.72	1.20	.40	.16	.08	.08	.08	.08	.16	.00	9.57
(2)	.07	.14	.58	.35	.23	.39	.16	.21	.35	.12	.05	.02	.02	.02	.02	.05	.00	2.78
1.1- 1.5	3	25	32	8	11	6	5	5	11	14	15	2	2	2	0	3	0	144
(1)	.24	1.99	2.55	.64	.88	.48	.40	.40	.88	1.12	1.20	.16	.16	.16	.00	.24	.00	11.48
(2)	.07	.58	.74	.19	.26	.14	.12	.12	.26	.32	.35	.05	.05	.05	.00	.07	.00	3.34
1.6- 2.0	10	22	20	3	6	5	2	3	7	13	20	6	1	1	1	2	0	122
(1)	.80	1.75	1.59	.24	.48	.40	.16	.24	.56	1.04	1.59	.48	.08	.08	.08	.16	.00	9.73
(2)	.23	.51	.46	.07	.14	.12	.05	.07	.16	.30	.46	.14	.02	.02	.02	.05	.00	2.83
2.1- 3.0	15	25	25	9	12	5	9	7	7	20	29	15	8	3	2	10	0	201
(1)	1.20	1.99	1.99	.72	.96	.40	.72	.56	.56	1.59	2.31	1.20	.64	.24	.16	.80	.00	16.03
(2)	.35	.58	.58	.21	.28	.12	.21	.16	.16	.46	.67	.35	.19	.07	.05	.23	.00	4.66
3.1- 4.0	18	48	15	3	6	16	12	10	18	15	28	16	6	9	9	16	0	245
(1)	1.44	3.83	1.20	.24	.48	1.28	.96	.80	1.44	1.20	2.23	1.28	.48	.72	.72	1.28	.00	19.54
(2)	.42	1.11	.35	.07	.14	.37	.28	.23	.42	.35	.65	.37	.14	.21	.21	.37	.00	5.68
4.1- 5.0	24	30	11	7	2	6	8	8	16	13	22	24	11	4	16	15	0	217
(1)	1.91	2.39	.88	.56	.16	.48	.64	.64	1.28	1.04	1.75	1.91	.88	.32	1.28	1.20	.00	17.30
(2)	.56	.70	.26	.16	.05	.14	.19	.19	.37	.30	.51	.56	.26	.09	.37	.35	.00	5.03
5.1- 6.0	8	22	2	4	1	1	2	2	9	20	11	21	3	3	2	5	0	116
(1)	.64	1.75	.16	.32	.08	.08	.16	.16	.72	1.59	.88	1.67	.24	.24	.16	.40	.00	9.25
(2)	.19	.51	.05	.09	.02	.02	.05	.05	.21	.46	.26	.49	.07	.07	.05	.12	.00	2.69

Table 2.3-60—{SSES 197' (60-m) 2001-2006 September JFD - continued}

(Page 2 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 29.10**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	3	6	1	2	0	0	1	4	1	13	5	19	4	2	6	2	0	69
(1)	.24	.48	.08	.16	.00	.00	.08	.32	.08	1.04	.40	1.52	.32	.16	.48	.16	.00	5.50
(2)	.07	.14	.02	.05	.00	.00	.02	.09	.02	.30	.12	.44	.09	.05	.14	.05	.00	1.60
8.1-10.0	0	0	1	0	0	0	0	0	4	3	0	2	1	0	2	0	0	13
(1)	.00	.00	.08	.00	.00	.00	.00	.00	.32	.24	.00	.16	.08	.00	.16	.00	.00	1.04
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.09	.07	.00	.05	.02	.00	.05	.00	.00	.30
10.1-40.3	0	0	0	3	0	0	1	0	2	0	0	0	0	0	0	0	0	6
(1)	.00	.00	.00	.24	.00	.00	.08	.00	.16	.00	.00	.00	.00	.00	.00	.00	.00	.48
(2)	.00	.00	.00	.07	.00	.00	.02	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.14
ALL SPEEDS	84	184	132	54	48	56	47	48	90	116	133	106	37	25	39	55	0	1254
(1)	6.70	14.67	10.53	4.31	3.83	4.47	3.75	3.83	7.18	9.25	10.61	8.45	2.95	1.99	3.11	4.39	.00	100.00
(2)	1.95	4.27	3.06	1.25	1.11	1.30	1.09	1.11	2.09	2.69	3.09	2.46	.86	.58	.90	1.28	.00	29.10

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-60—{SSES 197' (60-m) 2001-2006 September JFD - continued}

(Page 1 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 31.48**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	3	0	1	0	1	1	0	0	0	0	0	0	0	0	7
(1)	.00	.00	.07	.22	.00	.07	.00	.07	.07	.00	.00	.00	.00	.00	.00	.00	.00	.52
(2)	.00	.00	.02	.07	.00	.02	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.16
.5- 1.0	7	20	32	29	22	15	16	11	9	4	8	4	2	0	0	2	0	181
(1)	.52	1.47	2.36	2.14	1.62	1.11	1.18	.81	.66	.29	.59	.29	.15	.00	.00	.15	.00	13.34
(2)	.16	.46	.74	.67	.51	.35	.37	.26	.21	.09	.19	.09	.05	.00	.00	.05	.00	4.20
1.1- 1.5	13	30	39	8	10	8	7	9	11	11	3	3	1	0	0	2	0	155
(1)	.96	2.21	2.87	.59	.74	.59	.52	.66	.81	.81	.22	.22	.07	.00	.00	.15	.00	11.42
(2)	.30	.70	.90	.19	.23	.19	.16	.21	.26	.26	.07	.07	.02	.00	.00	.05	.00	3.60
1.6- 2.0	18	64	28	13	3	3	6	2	10	12	15	13	2	0	1	0	0	190
(1)	1.33	4.72	2.06	.96	.22	.22	.44	.15	.74	.88	1.11	.96	.15	.00	.07	.00	.00	14.00
(2)	.42	1.48	.65	.30	.07	.07	.14	.05	.23	.28	.35	.30	.05	.00	.02	.00	.00	4.41
2.1- 3.0	18	101	31	8	12	5	7	15	20	12	17	12	5	5	3	3	0	274
(1)	1.33	7.44	2.28	.59	.88	.37	.52	1.11	1.47	.88	1.25	.88	.37	.37	.22	.22	.00	20.19
(2)	.42	2.34	.72	.19	.28	.12	.16	.35	.46	.28	.39	.28	.12	.12	.07	.07	.00	6.36
3.1- 4.0	15	44	26	7	5	6	7	12	25	32	20	16	6	5	3	4	0	233
(1)	1.11	3.24	1.92	.52	.37	.44	.52	.88	1.84	2.36	1.47	1.18	.44	.37	.22	.29	.00	17.17
(2)	.35	1.02	.60	.16	.12	.14	.16	.28	.58	.74	.46	.37	.14	.12	.07	.09	.00	5.41
4.1- 5.0	9	25	13	5	3	4	3	12	16	20	12	12	6	2	6	6	0	154
(1)	.66	1.84	.96	.37	.22	.29	.22	.88	1.18	1.47	.88	.88	.44	.15	.44	.44	.00	11.35
(2)	.21	.58	.30	.12	.07	.09	.07	.28	.37	.46	.28	.28	.14	.05	.14	.14	.00	3.57
5.1- 6.0	2	8	7	3	0	1	4	7	8	13	5	11	0	0	0	1	0	70
(1)	.15	.59	.52	.22	.00	.07	.29	.52	.59	.96	.37	.81	.00	.00	.00	.07	.00	5.16
(2)	.05	.19	.16	.07	.00	.02	.09	.16	.19	.30	.12	.26	.00	.00	.00	.02	.00	1.62

Table 2.3-60—{SSES 197' (60-m) 2001-2006 September JFD - continued}

(Page 2 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 31.48**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	12	4	2	4	1	1	7	8	6	0	3	0	0	0	1	0	49
(1)	.00	.88	.29	.15	.29	.07	.07	.52	.59	.44	.00	.22	.00	.00	.00	.07	.00	3.61
(2)	.00	.28	.09	.05	.09	.02	.02	.16	.19	.14	.00	.07	.00	.00	.00	.02	.00	1.14
8.1-10.0	0	1	9	2	0	1	2	1	6	2	0	0	0	0	0	0	0	24
(1)	.00	.07	.66	.15	.00	.07	.15	.07	.44	.15	.00	.00	.00	.00	.00	.00	.00	1.77
(2)	.00	.02	.21	.05	.00	.02	.05	.02	.14	.05	.00	.00	.00	.00	.00	.00	.00	.56
10.1-40.3	0	5	3	3	1	1	4	1	1	1	0	0	0	0	0	0	0	20
(1)	.00	.37	.22	.22	.07	.07	.29	.07	.07	.07	.00	.00	.00	.00	.00	.00	.00	1.47
(2)	.00	.12	.07	.07	.02	.02	.09	.02	.02	.02	.00	.00	.00	.00	.00	.00	.00	.46
ALL SPEEDS	82	310	193	83	60	46	57	78	115	113	80	74	22	12	13	19	0	1357
(1)	6.04	22.84	14.22	6.12	4.42	3.39	4.20	5.75	8.47	8.33	5.90	5.45	1.62	.88	.96	1.40	.00	100.00
(2)	1.90	7.19	4.48	1.93	1.39	1.07	1.32	1.81	2.67	2.62	1.86	1.72	.51	.28	.30	.44	.00	31.48

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-60—{SSES 197' (60-m) 2001-2006 September JFD - continued}

(Page 1 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 16.22**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.14	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.29
(2)	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
.5- 1.0	2	10	23	15	4	11	6	2	2	1	0	0	1	0	1	1	0	79
(1)	.29	1.43	3.29	2.15	.57	1.57	.86	.29	.29	.14	.00	.00	.14	.00	.14	.14	.00	11.30
(2)	.05	.23	.53	.35	.09	.26	.14	.05	.05	.02	.00	.00	.02	.00	.02	.02	.00	1.83
1.1- 1.5	2	39	43	6	3	5	10	3	8	5	3	1	0	0	0	3	0	131
(1)	.29	5.58	6.15	.86	.43	.72	1.43	.43	1.14	.72	.43	.14	.00	.00	.00	.43	.00	18.74
(2)	.05	.90	1.00	.14	.07	.12	.23	.07	.19	.12	.07	.02	.00	.00	.00	.07	.00	3.04
1.6- 2.0	22	109	17	2	3	2	1	2	7	6	2	2	3	0	1	0	0	179
(1)	3.15	15.59	2.43	.29	.43	.29	.14	.29	1.00	.86	.29	.29	.43	.00	.14	.00	.00	25.61
(2)	.51	2.53	.39	.05	.07	.05	.02	.05	.16	.14	.05	.05	.07	.00	.02	.00	.00	4.15
2.1- 3.0	34	141	11	4	0	1	0	2	6	11	7	1	1	2	1	1	0	223
(1)	4.86	20.17	1.57	.57	.00	.14	.00	.29	.86	1.57	1.00	.14	.14	.29	.14	.14	.00	31.90
(2)	.79	3.27	.26	.09	.00	.02	.00	.05	.14	.26	.16	.02	.02	.05	.02	.02	.00	5.17
3.1- 4.0	9	23	5	0	0	0	0	2	10	10	6	3	0	0	1	1	0	70
(1)	1.29	3.29	.72	.00	.00	.00	.00	.29	1.43	1.43	.86	.43	.00	.00	.14	.14	.00	10.01
(2)	.21	.53	.12	.00	.00	.00	.00	.05	.23	.23	.14	.07	.00	.00	.02	.02	.00	1.62
4.1- 5.0	0	2	0	0	0	0	0	1	1	4	0	4	0	0	0	0	0	12
(1)	.00	.29	.00	.00	.00	.00	.00	.14	.14	.57	.00	.57	.00	.00	.00	.00	.00	1.72
(2)	.00	.05	.00	.00	.00	.00	.00	.02	.02	.09	.00	.09	.00	.00	.00	.00	.00	.28
5.1- 6.0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2
(1)	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	.29
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.05

Table 2.3-60—{SSES 197' (60-m) 2001-2006 September JFD - continued}

(Page 2 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 16.22**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	70	324	99	27	11	20	17	13	34	37	18	12	5	2	4	6	0	699
(1)	10.01	46.35	14.16	3.86	1.57	2.86	2.43	1.86	4.86	5.29	2.58	1.72	.72	.29	.57	.86	.00	100.00
(2)	1.62	7.52	2.30	.63	.26	.46	.39	.30	.79	.86	.42	.28	.12	.05	.09	.14	.00	16.22

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-60—{SSES 197' (60-m) 2001-2006 September JFD - continued}

(Page 1 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS G — CLASS FREQUENCY (PERCENT) = 7.33

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	2	9	8	5	2	1	1	2	4	0	0	0	0	0	0	0	34
(1)	.00	.63	2.85	2.53	1.58	.63	.32	.32	.63	1.27	.00	.00	.00	.00	.00	.00	.00	10.76
(2)	.00	.05	.21	.19	.12	.05	.02	.02	.05	.09	.00	.00	.00	.00	.00	.00	.00	.79
1.1- 1.5	2	23	10	9	8	8	6	5	4	1	0	0	0	2	0	0	0	78
(1)	.63	7.28	3.16	2.85	2.53	2.53	1.90	1.58	1.27	.32	.00	.00	.00	.63	.00	.00	.00	24.68
(2)	.05	.53	.23	.21	.19	.19	.14	.12	.09	.02	.00	.00	.00	.05	.00	.00	.00	1.81
1.6- 2.0	8	47	18	7	1	2	2	3	3	2	2	1	0	0	2	0	0	98
(1)	2.53	14.87	5.70	2.22	.32	.63	.63	.95	.95	.63	.63	.32	.00	.00	.63	.00	.00	31.01
(2)	.19	1.09	.42	.16	.02	.05	.05	.07	.07	.05	.05	.02	.00	.00	.05	.00	.00	2.27
2.1- 3.0	15	44	8	1	0	2	2	1	8	8	0	0	0	0	1	1	0	91
(1)	4.75	13.92	2.53	.32	.00	.63	.63	.32	2.53	2.53	.00	.00	.00	.00	.32	.32	.00	28.80
(2)	.35	1.02	.19	.02	.00	.05	.05	.02	.19	.19	.00	.00	.00	.00	.02	.02	.00	2.11
3.1- 4.0	3	5	0	0	0	0	0	0	0	2	2	0	0	0	1	0	0	13
(1)	.95	1.58	.00	.00	.00	.00	.00	.00	.00	.63	.63	.00	.00	.00	.32	.00	.00	4.11
(2)	.07	.12	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.02	.00	.00	.30
4.1- 5.0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.32	.00	.32	.00	.00	.00	.00	.00	.63
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	.00	.00	.00	.05
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-60—{SSES 197' (60-m) 2001-2006 September JFD - continued}

(Page 2 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 7.33**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	28	121	45	25	14	14	11	10	17	18	4	2	0	2	4	1	0	316
(1)	8.86	38.29	14.24	7.91	4.43	4.43	3.48	3.16	5.38	5.70	1.27	.63	.00	.63	1.27	.32	.00	100.00
(2)	.65	2.81	1.04	.58	.32	.32	.26	.23	.39	.42	.09	.05	.00	.05	.09	.02	.00	7.33

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-60—{SSES 197' (60-m) 2001-2006 September JFD - continued}

(Page 1 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	3	1	2	0	1	1	0	1	0	0	0	0	0	0	10
(1)	.00	.00	.02	.07	.02	.05	.00	.02	.02	.00	.02	.00	.00	.00	.00	.00	.00	.23
(2)	.00	.00	.02	.07	.02	.05	.00	.02	.02	.00	.02	.00	.00	.00	.00	.00	.00	.23
.5- 1.0	12	38	92	70	43	48	32	24	31	16	11	5	4	1	2	5	0	434
(1)	.28	.88	2.13	1.62	1.00	1.11	.74	.56	.72	.37	.26	.12	.09	.02	.05	.12	.00	10.07
(2)	.28	.88	2.13	1.62	1.00	1.11	.74	.56	.72	.37	.26	.12	.09	.02	.05	.12	.00	10.07
1.1- 1.5	24	122	133	43	36	32	32	26	39	41	25	6	3	4	0	8	0	574
(1)	.56	2.83	3.09	1.00	.84	.74	.74	.60	.90	.95	.58	.14	.07	.09	.00	.19	.00	13.32
(2)	.56	2.83	3.09	1.00	.84	.74	.74	.60	.90	.95	.58	.14	.07	.09	.00	.19	.00	13.32
1.6- 2.0	59	251	94	36	16	17	15	16	37	47	49	23	6	2	5	2	0	675
(1)	1.37	5.82	2.18	.84	.37	.39	.35	.37	.86	1.09	1.14	.53	.14	.05	.12	.05	.00	15.66
(2)	1.37	5.82	2.18	.84	.37	.39	.35	.37	.86	1.09	1.14	.53	.14	.05	.12	.05	.00	15.66
2.1- 3.0	86	333	91	25	25	16	21	29	48	63	87	37	15	10	10	19	0	915
(1)	2.00	7.73	2.11	.58	.58	.37	.49	.67	1.11	1.46	2.02	.86	.35	.23	.23	.44	.00	21.23
(2)	2.00	7.73	2.11	.58	.58	.37	.49	.67	1.11	1.46	2.02	.86	.35	.23	.23	.44	.00	21.23
3.1- 4.0	49	131	54	10	11	23	23	29	59	68	101	45	17	20	23	27	0	690
(1)	1.14	3.04	1.25	.23	.26	.53	.53	.67	1.37	1.58	2.34	1.04	.39	.46	.53	.63	.00	16.01
(2)	1.14	3.04	1.25	.23	.26	.53	.53	.67	1.37	1.58	2.34	1.04	.39	.46	.53	.63	.00	16.01
4.1- 5.0	50	76	27	12	5	10	14	29	46	53	59	48	23	18	25	29	0	524
(1)	1.16	1.76	.63	.28	.12	.23	.32	.67	1.07	1.23	1.37	1.11	.53	.42	.58	.67	.00	12.16
(2)	1.16	1.76	.63	.28	.12	.23	.32	.67	1.07	1.23	1.37	1.11	.53	.42	.58	.67	.00	12.16
5.1- 6.0	19	39	13	8	1	2	7	16	24	39	31	47	6	5	2	9	0	268
(1)	.44	.90	.30	.19	.02	.05	.16	.37	.56	.90	.72	1.09	.14	.12	.05	.21	.00	6.22
(2)	.44	.90	.30	.19	.02	.05	.16	.37	.56	.90	.72	1.09	.14	.12	.05	.21	.00	6.22

Table 2.3-60—{SSES 197' (60-m) 2001-2006 September JFD - continued}

(Page 2 of 2)

SSES SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS ALL — CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	4	19	5	4	4	1	2	15	14	28	10	30	5	2	6	3	0	152
(1)	.09	.44	.12	.09	.09	.02	.05	.35	.32	.65	.23	.70	.12	.05	.14	.07	.00	3.53
(2)	.09	.44	.12	.09	.09	.02	.05	.35	.32	.65	.23	.70	.12	.05	.14	.07	.00	3.53
8.1-10.0	0	1	10	2	0	1	2	1	10	6	0	2	1	0	3	2	0	41
(1)	.00	.02	.23	.05	.00	.02	.05	.02	.23	.14	.00	.05	.02	.00	.07	.05	.00	.95
(2)	.00	.02	.23	.05	.00	.02	.05	.02	.23	.14	.00	.05	.02	.00	.07	.05	.00	.95
10.1-40.3	0	5	3	6	1	1	5	1	3	1	0	0	0	0	0	1	0	27
(1)	.00	.12	.07	.14	.02	.02	.12	.02	.07	.02	.00	.00	.00	.00	.00	.02	.00	.63
(2)	.00	.12	.07	.14	.02	.02	.12	.02	.07	.02	.00	.00	.00	.00	.00	.02	.00	.63
ALL SPEEDS	303	1015	523	219	143	153	153	187	312	362	374	243	80	62	76	105	0	4310
(1)	7.03	23.55	12.13	5.08	3.32	3.55	3.55	4.34	7.24	8.40	8.68	5.64	1.86	1.44	1.76	2.44	.00	100.00
(2)	7.03	23.55	12.13	5.08	3.32	3.55	3.55	4.34	7.24	8.40	8.68	5.64	1.86	1.44	1.76	2.44	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-61 {SSES 197' (60-m) 2001-2006 October JFD}

(Page 1 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 2.54**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	1	2	1	1	0	1	2	0	0	0	0	1	0	0	9
(1)	.00	.00	.00	.90	1.80	.90	.90	.00	.90	1.80	.00	.00	.00	.00	.90	.00	.00	8.11
(2)	.00	.00	.00	.02	.05	.02	.02	.00	.02	.05	.00	.00	.00	.00	.02	.00	.00	.21
1.1- 1.5	0	0	0	0	2	0	0	0	1	0	2	0	0	0	0	0	0	5
(1)	.00	.00	.00	.00	1.80	.00	.00	.00	.90	.00	1.80	.00	.00	.00	.00	.00	.00	4.50
(2)	.00	.00	.00	.00	.05	.00	.00	.00	.02	.00	.05	.00	.00	.00	.00	.00	.00	.11
1.6- 2.0	0	1	1	0	0	0	1	3	0	2	4	3	0	0	0	0	0	15
(1)	.00	.90	.90	.00	.00	.00	.90	2.70	.00	1.80	3.60	2.70	.00	.00	.00	.00	.00	13.51
(2)	.00	.02	.02	.00	.00	.00	.02	.07	.00	.05	.09	.07	.00	.00	.00	.00	.00	.34
2.1- 3.0	0	0	1	0	0	0	1	4	1	0	8	1	0	0	0	0	0	16
(1)	.00	.00	.90	.00	.00	.00	.90	3.60	.90	.00	7.21	.90	.00	.00	.00	.00	.00	14.41
(2)	.00	.00	.02	.00	.00	.00	.02	.09	.02	.00	.18	.02	.00	.00	.00	.00	.00	.37
3.1- 4.0	0	0	3	0	0	0	0	0	1	5	8	2	0	0	0	0	0	19
(1)	.00	.00	2.70	.00	.00	.00	.00	.00	.90	4.50	7.21	1.80	.00	.00	.00	.00	.00	17.12
(2)	.00	.00	.07	.00	.00	.00	.00	.00	.02	.11	.18	.05	.00	.00	.00	.00	.00	.44
4.1- 5.0	0	3	1	0	0	0	0	1	1	5	8	4	0	0	0	0	0	23
(1)	.00	2.70	.90	.00	.00	.00	.00	.90	.90	4.50	7.21	3.60	.00	.00	.00	.00	.00	20.72
(2)	.00	.07	.02	.00	.00	.00	.00	.02	.02	.11	.18	.09	.00	.00	.00	.00	.00	.53
5.1- 6.0	0	2	0	0	0	0	0	0	0	1	7	2	0	0	0	0	0	12
(1)	.00	1.80	.00	.00	.00	.00	.00	.00	.00	.90	6.31	1.80	.00	.00	.00	.00	.00	10.81
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.02	.16	.05	.00	.00	.00	.00	.00	.28

Table 2.3-61 {SSES 197' (60-m) 2001-2006 October JFD}

(Page 2 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = 2.54**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	1	1	1	6	2	0	0	0	0	0	11
(1)	.00	.00	.00	.00	.00	.00	.00	.90	.90	.90	5.41	1.80	.00	.00	.00	.00	.00	9.91
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.02	.02	.14	.05	.00	.00	.00	.00	.00	.25
8.1-10.0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.90	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.90
(2)	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	6	6	1	4	1	4	9	6	16	43	14	0	0	1	0	0	111
(1)	.00	5.41	5.41	.90	3.60	.90	3.60	8.11	5.41	14.41	38.74	12.61	.00	.00	.90	.00	.00	100.00
(2)	.00	.14	.14	.02	.09	.02	.09	.21	.14	.37	.99	.32	.00	.00	.02	.00	.00	2.54

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-61—{SSES 197' (60-m) 2001-2006 October JFD - continued}

(Page 1 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 2.41**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	1	0	0	1	0	1	1	0	0	1	0	0	0	0	0	5
(1)	.00	.00	.95	.00	.00	.95	.00	.95	.95	.00	.00	.95	.00	.00	.00	.00	.00	4.76
(2)	.00	.00	.02	.00	.00	.02	.00	.02	.02	.00	.00	.02	.00	.00	.00	.00	.00	.11
1.1- 1.5	2	0	0	1	0	1	1	0	0	2	0	0	0	0	0	0	0	7
(1)	1.90	.00	.00	.95	.00	.95	.95	.00	.00	1.90	.00	.00	.00	.00	.00	.00	.00	6.67
(2)	.05	.00	.00	.02	.00	.02	.02	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.16
1.6- 2.0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.95	.95	.95	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.86
(2)	.00	.02	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
2.1- 3.0	1	1	1	1	0	0	1	0	0	3	4	0	0	0	0	0	0	12
(1)	.95	.95	.95	.95	.00	.00	.95	.00	.00	2.86	3.81	.00	.00	.00	.00	.00	.00	11.43
(2)	.02	.02	.02	.02	.00	.00	.02	.00	.00	.07	.09	.00	.00	.00	.00	.00	.00	.28
3.1- 4.0	0	2	1	0	0	0	0	2	0	2	6	2	0	0	0	0	0	15
(1)	.00	1.90	.95	.00	.00	.00	.00	1.90	.00	1.90	5.71	1.90	.00	.00	.00	.00	.00	14.29
(2)	.00	.05	.02	.00	.00	.00	.00	.05	.00	.05	.14	.05	.00	.00	.00	.00	.00	.34
4.1- 5.0	0	1	2	0	0	0	1	0	0	2	8	7	1	0	0	1	0	23
(1)	.00	.95	1.90	.00	.00	.00	.95	.00	.00	1.90	7.62	6.67	.95	.00	.00	.95	.00	21.90
(2)	.00	.02	.05	.00	.00	.00	.02	.00	.00	.05	.18	.16	.02	.00	.00	.02	.00	.53
5.1- 6.0	0	2	0	0	0	0	0	1	1	0	7	1	3	0	0	0	0	15
(1)	.00	1.90	.00	.00	.00	.00	.00	.95	.95	.00	6.67	.95	2.86	.00	.00	.00	.00	14.29
(2)	.00	.05	.00	.00	.00	.00	.00	.02	.02	.00	.16	.02	.07	.00	.00	.00	.00	.34

Table 2.3-61—{SSES 197' (60-m) 2001-2006 October JFD - continued}

(Page 2 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 2.41**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	1	1	0	1	3	9	2	0	0	0	0	17
(1)	.00	.00	.00	.00	.00	.00	.95	.95	.00	.95	2.86	8.57	1.90	.00	.00	.00	.00	16.19
(2)	.00	.00	.00	.00	.00	.00	.02	.02	.00	.02	.07	.21	.05	.00	.00	.00	.00	.39
8.1-10.0	0	0	0	0	0	0	0	0	0	1	3	3	0	0	0	0	0	7
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.95	2.86	2.86	.00	.00	.00	.00	.00	6.67
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.07	.07	.00	.00	.00	.00	.00	.16
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.95	.00	.00	.00	.00	.00	.95
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
ALL SPEEDS	3	7	6	3	0	2	4	5	2	11	31	24	6	0	0	1	0	105
(1)	2.86	6.67	5.71	2.86	.00	1.90	3.81	4.76	1.90	10.48	29.52	22.86	5.71	.00	.00	.95	.00	100.00
(2)	.07	.16	.14	.07	.00	.05	.09	.11	.05	.25	.71	.55	.14	.00	.00	.02	.00	2.41

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-61—{SSES 197' (60-m) 2001-2006 October JFD - continued}

(Page 1 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 3.71**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.62	.00	.00	.00	.00	.62	.00	.00	.00	.00	.00	.00	.00	.00	1.23
(2)	.00	.00	.00	.02	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.05
1.1- 1.5	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2
(1)	.62	.00	.00	.00	.00	.00	.00	.00	.62	.00	.00	.00	.00	.00	.00	.00	.00	1.23
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.05
1.6- 2.0	1	3	0	0	0	0	0	0	0	2	3	2	0	0	0	0	0	11
(1)	.62	1.85	.00	.00	.00	.00	.00	.00	.00	1.23	1.85	1.23	.00	.00	.00	.00	.00	6.79
(2)	.02	.07	.00	.00	.00	.00	.00	.00	.00	.05	.07	.05	.00	.00	.00	.00	.00	.25
2.1- 3.0	0	0	3	2	0	1	1	2	0	3	7	3	1	0	0	0	0	23
(1)	.00	.00	1.85	1.23	.00	.62	.62	1.23	.00	1.85	4.32	1.85	.62	.00	.00	.00	.00	14.20
(2)	.00	.00	.07	.05	.00	.02	.02	.05	.00	.07	.16	.07	.02	.00	.00	.00	.00	.53
3.1- 4.0	2	2	3	0	0	0	1	1	1	0	13	3	2	0	0	0	0	28
(1)	1.23	1.23	1.85	.00	.00	.00	.62	.62	.62	.00	8.02	1.85	1.23	.00	.00	.00	.00	17.28
(2)	.05	.05	.07	.00	.00	.00	.02	.02	.02	.00	.30	.07	.05	.00	.00	.00	.00	.64
4.1- 5.0	2	5	0	0	0	0	0	1	1	2	11	6	1	2	0	3	0	34
(1)	1.23	3.09	.00	.00	.00	.00	.00	.62	.62	1.23	6.79	3.70	.62	1.23	.00	1.85	.00	20.99
(2)	.05	.11	.00	.00	.00	.00	.00	.02	.02	.05	.25	.14	.02	.05	.00	.07	.00	.78
5.1- 6.0	3	5	0	0	0	0	2	0	3	3	4	6	7	0	0	0	0	33
(1)	1.85	3.09	.00	.00	.00	.00	1.23	.00	1.85	1.85	2.47	3.70	4.32	.00	.00	.00	.00	20.37
(2)	.07	.11	.00	.00	.00	.00	.05	.00	.07	.07	.09	.14	.16	.00	.00	.00	.00	.76

Table 2.3-61—{SSES 197' (60-m) 2001-2006 October JFD - continued}

(Page 2 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 3.71**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	2	0	0	0	0	1	0	3	3	2	5	4	0	0	0	0	20
(1)	.00	1.23	.00	.00	.00	.00	.62	.00	1.85	1.85	1.23	3.09	2.47	.00	.00	.00	.00	12.35
(2)	.00	.05	.00	.00	.00	.00	.02	.00	.07	.07	.05	.11	.09	.00	.00	.00	.00	.46
8.1-10.0	0	0	0	0	0	0	0	0	0	1	1	3	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.62	.62	1.85	.00	.00	.00	.00	.00	3.09
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.07	.00	.00	.00	.00	.00	.11
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.47	.00	.00	.00	.00	.00	2.47
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.09
ALL SPEEDS	9	17	6	3	0	1	5	4	10	14	41	32	15	2	0	3	0	162
(1)	5.56	10.49	3.70	1.85	.00	.62	3.09	2.47	6.17	8.64	25.31	19.75	9.26	1.23	.00	1.85	.00	100.00
(2)	.21	.39	.14	.07	.00	.02	.11	.09	.23	.32	.94	.73	.34	.05	.00	.07	.00	3.71

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-61—{SSES 197' (60-m) 2001-2006 October JFD - continued}

(Page 1 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS D — CLASS FREQUENCY (PERCENT) = 37.61

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	3
(1)	.00	.00	.06	.00	.00	.06	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00	.18
(2)	.00	.00	.02	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.07
.5- 1.0	3	6	20	24	11	8	7	10	6	12	3	3	0	0	0	1	0	114
(1)	.18	.37	1.22	1.46	.67	.49	.43	.61	.37	.73	.18	.18	.00	.00	.00	.06	.00	6.95
(2)	.07	.14	.46	.55	.25	.18	.16	.23	.14	.28	.07	.07	.00	.00	.00	.02	.00	2.61
1.1- 1.5	7	16	16	12	6	3	4	8	15	11	12	5	0	0	2	3	0	120
(1)	.43	.98	.98	.73	.37	.18	.24	.49	.91	.67	.73	.30	.00	.00	.12	.18	.00	7.31
(2)	.16	.37	.37	.28	.14	.07	.09	.18	.34	.25	.28	.11	.00	.00	.05	.07	.00	2.75
1.6- 2.0	3	10	15	3	5	3	8	5	13	12	10	6	2	0	0	1	0	96
(1)	.18	.61	.91	.18	.30	.18	.49	.30	.79	.73	.61	.37	.12	.00	.00	.06	.00	5.85
(2)	.07	.23	.34	.07	.11	.07	.18	.11	.30	.28	.23	.14	.05	.00	.00	.02	.00	2.20
2.1- 3.0	11	44	22	9	14	9	13	7	4	9	40	23	7	7	3	9	0	231
(1)	.67	2.68	1.34	.55	.85	.55	.79	.43	.24	.55	2.44	1.40	.43	.43	.18	.55	.00	14.08
(2)	.25	1.01	.50	.21	.32	.21	.30	.16	.09	.21	.92	.53	.16	.16	.07	.21	.00	5.29
3.1- 4.0	34	46	38	4	7	4	10	8	5	12	22	24	15	20	13	20	0	282
(1)	2.07	2.80	2.32	.24	.43	.24	.61	.49	.30	.73	1.34	1.46	.91	1.22	.79	1.22	.00	17.18
(2)	.78	1.05	.87	.09	.16	.09	.23	.18	.11	.28	.50	.55	.34	.46	.30	.46	.00	6.46
4.1- 5.0	27	36	14	4	1	4	16	12	13	12	20	46	26	18	33	23	0	305
(1)	1.65	2.19	.85	.24	.06	.24	.98	.73	.79	.73	1.22	2.80	1.58	1.10	2.01	1.40	.00	18.59
(2)	.62	.83	.32	.09	.02	.09	.37	.28	.30	.28	.46	1.05	.60	.41	.76	.53	.00	6.99
5.1- 6.0	17	26	7	1	0	2	4	8	7	11	8	36	30	25	36	15	0	233
(1)	1.04	1.58	.43	.06	.00	.12	.24	.49	.43	.67	.49	2.19	1.83	1.52	2.19	.91	.00	14.20
(2)	.39	.60	.16	.02	.00	.05	.09	.18	.16	.25	.18	.83	.69	.57	.83	.34	.00	5.34

Table 2.3-61—{SSES 197' (60-m) 2001-2006 October JFD - continued}
(Page 2 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 37.61**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	3	9	2	0	0	1	4	3	4	11	11	32	29	25	16	3	0	153
(1)	.18	.55	.12	.00	.00	.06	.24	.18	.24	.67	.67	1.95	1.77	1.52	.98	.18	.00	9.32
(2)	.07	.21	.05	.00	.00	.02	.09	.07	.09	.25	.25	.73	.66	.57	.37	.07	.00	3.51
8.1-10.0	0	0	0	0	0	0	3	0	1	5	1	41	5	0	0	0	0	56
(1)	.00	.00	.00	.00	.00	.00	.18	.00	.06	.30	.06	2.50	.30	.00	.00	.00	.00	3.41
(2)	.00	.00	.00	.00	.00	.00	.07	.00	.02	.11	.02	.94	.11	.00	.00	.00	.00	1.28
10.1-40.3	0	0	0	0	0	0	1	0	0	0	0	40	7	0	0	0	0	48
(1)	.00	.00	.00	.00	.00	.00	.06	.00	.00	.00	.00	2.44	.43	.00	.00	.00	.00	2.93
(2)	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.92	.16	.00	.00	.00	.00	1.10
ALL SPEEDS	105	193	135	57	44	35	70	61	68	95	127	256	121	95	104	75	0	1641
(1)	6.40	11.76	8.23	3.47	2.68	2.13	4.27	3.72	4.14	5.79	7.74	15.60	7.37	5.79	6.34	4.57	.00	100.00
(2)	2.41	4.42	3.09	1.31	1.01	.80	1.60	1.40	1.56	2.18	2.91	5.87	2.77	2.18	2.38	1.72	.00	37.61

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-61—{SSES 197' (60-m) 2001-2006 October JFD - continued}

(Page 1 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS E — CLASS FREQUENCY (PERCENT) = 32.50

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
(2)	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.2- .4	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.07	.00	.00	.00	.07	.00	.07	.00	.00	.00	.00	.00	.00	.21
(2)	.00	.00	.00	.00	.02	.00	.00	.00	.02	.00	.02	.00	.00	.00	.00	.00	.00	.07
.5- 1.0	5	15	18	21	22	23	17	14	14	13	4	2	2	0	0	0	0	170
(1)	.35	1.06	1.27	1.48	1.55	1.62	1.20	.99	.99	.92	.28	.14	.14	.00	.00	.00	.00	11.99
(2)	.11	.34	.41	.48	.50	.53	.39	.32	.32	.30	.09	.05	.05	.00	.00	.00	.00	3.90
1.1- 1.5	16	26	28	11	9	4	6	24	17	15	12	3	1	0	1	6	0	179
(1)	1.13	1.83	1.97	.78	.63	.28	.42	1.69	1.20	1.06	.85	.21	.07	.00	.07	.42	.00	12.62
(2)	.37	.60	.64	.25	.21	.09	.14	.55	.39	.34	.28	.07	.02	.00	.02	.14	.00	4.10
1.6- 2.0	12	39	27	9	7	4	3	11	11	8	19	10	4	1	0	0	0	165
(1)	.85	2.75	1.90	.63	.49	.28	.21	.78	.78	.56	1.34	.71	.28	.07	.00	.00	.00	11.64
(2)	.28	.89	.62	.21	.16	.09	.07	.25	.25	.18	.44	.23	.09	.02	.00	.00	.00	3.78
2.1- 3.0	33	86	34	16	4	5	0	9	13	22	29	20	8	6	4	8	0	297
(1)	2.33	6.06	2.40	1.13	.28	.35	.00	.63	.92	1.55	2.05	1.41	.56	.42	.28	.56	.00	20.94
(2)	.76	1.97	.78	.37	.09	.11	.00	.21	.30	.50	.66	.46	.18	.14	.09	.18	.00	6.81
3.1- 4.0	11	37	24	5	7	2	3	4	17	24	34	21	11	4	8	6	0	218
(1)	.78	2.61	1.69	.35	.49	.14	.21	.28	1.20	1.69	2.40	1.48	.78	.28	.56	.42	.00	15.37
(2)	.25	.85	.55	.11	.16	.05	.07	.09	.39	.55	.78	.48	.25	.09	.18	.14	.00	5.00
4.1- 5.0	3	32	30	0	3	3	10	7	14	35	18	24	7	4	8	5	0	203
(1)	.21	2.26	2.12	.00	.21	.21	.71	.49	.99	2.47	1.27	1.69	.49	.28	.56	.35	.00	14.32
(2)	.07	.73	.69	.00	.07	.07	.23	.16	.32	.80	.41	.55	.16	.09	.18	.11	.00	4.65
5.1- 6.0	1	11	6	0	0	1	5	2	8	17	11	26	1	1	4	1	0	95
(1)	.07	.78	.42	.00	.00	.07	.35	.14	.56	1.20	.78	1.83	.07	.07	.28	.07	.00	6.70
(2)	.02	.25	.14	.00	.00	.02	.11	.05	.18	.39	.25	.60	.02	.02	.09	.02	.00	2.18

Table 2.3-61—{SSES 197' (60-m) 2001-2006 October JFD - continued}

(Page 2 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 32.50**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	8	4	0	0	1	3	8	4	10	4	26	2	0	1	1	0	72
(1)	.00	.56	.28	.00	.00	.07	.21	.56	.28	.71	.28	1.83	.14	.00	.07	.07	.00	5.08
(2)	.00	.18	.09	.00	.00	.02	.07	.18	.09	.23	.09	.60	.05	.00	.02	.02	.00	1.65
8.1-10.0	0	0	0	0	0	1	3	0	0	5	1	4	0	0	0	0	0	14
(1)	.00	.00	.00	.00	.00	.07	.21	.00	.00	.35	.07	.28	.00	.00	.00	.00	.00	.99
(2)	.00	.00	.00	.00	.00	.02	.07	.00	.00	.11	.02	.09	.00	.00	.00	.00	.00	.32
10.1-40.3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00	.00	.00	.07
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.02
ALL SPEEDS	81	254	171	63	53	44	50	79	100	149	133	136	36	16	26	27	0	1418
(1)	5.71	17.91	12.06	4.44	3.74	3.10	3.53	5.57	7.05	10.51	9.38	9.59	2.54	1.13	1.83	1.90	.00	100.00
(2)	1.86	5.82	3.92	1.44	1.21	1.01	1.15	1.81	2.29	3.42	3.05	3.12	.83	.37	.60	.62	.00	32.50

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-61—{SSES 197' (60-m) 2001-2006 October JFD - continued}

(Page 1 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS F — CLASS FREQUENCY (PERCENT) = 12.22

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.2- .4	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.19	.19	.19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.56
(2)	.00	.00	.02	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
.5- 1.0	2	11	19	13	19	9	10	4	5	1	0	0	0	0	2	0	0	95
(1)	.38	2.06	3.56	2.44	3.56	1.69	1.88	.75	.94	.19	.00	.00	.00	.00	.38	.00	.00	17.82
(2)	.05	.25	.44	.30	.44	.21	.23	.09	.11	.02	.00	.00	.00	.00	.05	.00	.00	2.18
1.1- 1.5	4	32	26	7	5	4	6	3	2	6	5	2	1	0	0	1	0	104
(1)	.75	6.00	4.88	1.31	.94	.75	1.13	.56	.38	1.13	.94	.38	.19	.00	.00	.19	.00	19.51
(2)	.09	.73	.60	.16	.11	.09	.14	.07	.05	.14	.11	.05	.02	.00	.00	.02	.00	2.38
1.6- 2.0	21	52	18	2	2	0	1	4	5	7	3	2	0	0	0	2	0	119
(1)	3.94	9.76	3.38	.38	.38	.00	.19	.75	.94	1.31	.56	.38	.00	.00	.00	.38	.00	22.33
(2)	.48	1.19	.41	.05	.05	.00	.02	.09	.11	.16	.07	.05	.00	.00	.00	.05	.00	2.73
2.1- 3.0	35	77	7	4	1	0	1	0	2	7	11	0	4	2	0	2	0	153
(1)	6.57	14.45	1.31	.75	.19	.00	.19	.00	.38	1.31	2.06	.00	.75	.38	.00	.38	.00	28.71
(2)	.80	1.76	.16	.09	.02	.00	.02	.00	.05	.16	.25	.00	.09	.05	.00	.05	.00	3.51
3.1- 4.0	4	6	4	1	0	0	0	1	1	7	4	7	0	0	0	0	0	35
(1)	.75	1.13	.75	.19	.00	.00	.00	.19	.19	1.31	.75	1.31	.00	.00	.00	.00	.00	6.57
(2)	.09	.14	.09	.02	.00	.00	.00	.02	.02	.16	.09	.16	.00	.00	.00	.00	.00	.80
4.1- 5.0	1	0	0	0	0	0	0	0	2	3	5	5	0	0	0	0	0	16
(1)	.19	.00	.00	.00	.00	.00	.00	.00	.38	.56	.94	.94	.00	.00	.00	.00	.00	3.00
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.05	.07	.11	.11	.00	.00	.00	.00	.00	.37
5.1- 6.0	0	0	0	0	0	0	0	0	0	2	2	3	0	0	0	0	0	7
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.38	.38	.56	.00	.00	.00	.00	.00	1.31
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.07	.00	.00	.00	.00	.00	.16

Table 2.3-61—{SSES 197' (60-m) 2001-2006 October JFD - continued}

(Page 2 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 12.22**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	67	178	76	28	28	13	18	12	17	33	30	19	5	2	2	5	0	533
(1)	12.57	33.40	14.26	5.25	5.25	2.44	3.38	2.25	3.19	6.19	5.63	3.56	.94	.38	.38	.94	.00	100.00
(2)	1.54	4.08	1.74	.64	.64	.30	.41	.28	.39	.76	.69	.44	.11	.05	.05	.11	.00	12.22

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-61—{SSES 197' (60-m) 2001-2006 October JFD - continued}

(Page 1 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 9.01**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	1	3	10	6	10	5	9	5	4	1	0	0	0	0	0	0	0	54
(1)	.25	.76	2.54	1.53	2.54	1.27	2.29	1.27	1.02	.25	.00	.00	.00	.00	.00	.00	.00	13.74
(2)	.02	.07	.23	.14	.23	.11	.21	.11	.09	.02	.00	.00	.00	.00	.00	.00	.00	1.24
1.1- 1.5	4	25	30	14	12	3	1	3	4	5	2	0	0	1	0	0	0	104
(1)	1.02	6.36	7.63	3.56	3.05	.76	.25	.76	1.02	1.27	.51	.00	.00	.25	.00	.00	.00	26.46
(2)	.09	.57	.69	.32	.28	.07	.02	.07	.09	.11	.05	.00	.00	.02	.00	.00	.00	2.38
1.6- 2.0	12	66	24	2	2	0	1	3	7	2	1	0	0	0	0	0	0	120
(1)	3.05	16.79	6.11	.51	.51	.00	.25	.76	1.78	.51	.25	.00	.00	.00	.00	.00	.00	30.53
(2)	.28	1.51	.55	.05	.05	.00	.02	.07	.16	.05	.02	.00	.00	.00	.00	.00	.00	2.75
2.1- 3.0	23	26	9	4	0	2	2	1	4	10	13	1	0	0	1	0	0	96
(1)	5.85	6.62	2.29	1.02	.00	.51	.51	.25	1.02	2.54	3.31	.25	.00	.00	.25	.00	.00	24.43
(2)	.53	.60	.21	.09	.00	.05	.05	.02	.09	.23	.30	.02	.00	.00	.02	.00	.00	2.20
3.1- 4.0	3	2	0	0	0	0	0	0	0	2	4	1	0	0	0	0	0	12
(1)	.76	.51	.00	.00	.00	.00	.00	.00	.00	.51	1.02	.25	.00	.00	.00	.00	.00	3.05
(2)	.07	.05	.00	.00	.00	.00	.00	.00	.00	.05	.09	.02	.00	.00	.00	.00	.00	.28
4.1- 5.0	0	0	0	0	1	0	0	0	0	1	2	2	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.25	.00	.00	.00	.00	.25	.51	.51	.00	.00	.00	.00	.00	1.53
(2)	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02	.05	.05	.00	.00	.00	.00	.00	.14
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 2.3-61—{SSES 197' (60-m) 2001-2006 October JFD - continued}

(Page 2 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 9.01**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	43	123	73	26	25	10	13	12	19	21	22	4	0	1	1	0	0	393
(1)	10.94	31.30	18.58	6.62	6.36	2.54	3.31	3.05	4.83	5.34	5.60	1.02	.00	.25	.25	.00	.00	100.00
(2)	.99	2.82	1.67	.60	.57	.23	.30	.28	.44	.48	.50	.09	.00	.02	.02	.00	.00	9.01

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-61—{SSES 197' (60-m) 2001-2006 October JFD - continued}

(Page 1 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
(2)	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
.2- .4	0	1	2	1	2	1	0	0	1	0	1	0	0	0	1	0	0	10
(1)	.00	.02	.05	.02	.05	.02	.00	.00	.02	.00	.02	.00	.00	.00	.02	.00	.00	.23
(2)	.00	.02	.05	.02	.05	.02	.00	.00	.02	.00	.02	.00	.00	.00	.02	.00	.00	.23
.5- 1.0	11	35	68	66	64	47	44	34	32	29	7	6	2	0	3	1	0	449
(1)	.25	.80	1.56	1.51	1.47	1.08	1.01	.78	.73	.66	.16	.14	.05	.00	.07	.02	.00	10.29
(2)	.25	.80	1.56	1.51	1.47	1.08	1.01	.78	.73	.66	.16	.14	.05	.00	.07	.02	.00	10.29
1.1- 1.5	34	99	100	45	34	15	18	38	40	39	33	10	2	1	3	10	0	521
(1)	.78	2.27	2.29	1.03	.78	.34	.41	.87	.92	.89	.76	.23	.05	.02	.07	.23	.00	11.94
(2)	.78	2.27	2.29	1.03	.78	.34	.41	.87	.92	.89	.76	.23	.05	.02	.07	.23	.00	11.94
1.6- 2.0	49	172	86	17	16	7	14	26	36	33	40	23	6	1	0	3	0	529
(1)	1.12	3.94	1.97	.39	.37	.16	.32	.60	.83	.76	.92	.53	.14	.02	.00	.07	.00	12.12
(2)	1.12	3.94	1.97	.39	.37	.16	.32	.60	.83	.76	.92	.53	.14	.02	.00	.07	.00	12.12
2.1- 3.0	103	234	77	36	19	17	19	23	24	54	112	48	20	15	8	19	0	828
(1)	2.36	5.36	1.76	.83	.44	.39	.44	.53	.55	1.24	2.57	1.10	.46	.34	.18	.44	.00	18.98
(2)	2.36	5.36	1.76	.83	.44	.39	.44	.53	.55	1.24	2.57	1.10	.46	.34	.18	.44	.00	18.98
3.1- 4.0	54	95	73	10	14	6	14	16	25	52	91	60	28	24	21	26	0	609
(1)	1.24	2.18	1.67	.23	.32	.14	.32	.37	.57	1.19	2.09	1.38	.64	.55	.48	.60	.00	13.96
(2)	1.24	2.18	1.67	.23	.32	.14	.32	.37	.57	1.19	2.09	1.38	.64	.55	.48	.60	.00	13.96
4.1- 5.0	33	77	47	4	5	7	27	21	31	60	72	94	35	24	41	32	0	610
(1)	.76	1.76	1.08	.09	.11	.16	.62	.48	.71	1.38	1.65	2.15	.80	.55	.94	.73	.00	13.98
(2)	.76	1.76	1.08	.09	.11	.16	.62	.48	.71	1.38	1.65	2.15	.80	.55	.94	.73	.00	13.98
5.1- 6.0	21	46	13	1	0	3	11	11	19	34	39	74	41	26	40	16	0	395
(1)	.48	1.05	.30	.02	.00	.07	.25	.25	.44	.78	.89	1.70	.94	.60	.92	.37	.00	9.05
(2)	.48	1.05	.30	.02	.00	.07	.25	.25	.44	.78	.89	1.70	.94	.60	.92	.37	.00	9.05

Table 2.3-61—{SSES 197' (60-m) 2001-2006 October JFD - continued}

(Page 2 of 2)

SSES OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	3	19	6	0	0	2	9	13	12	26	26	74	37	25	17	4	0	273
(1)	.07	.44	.14	.00	.00	.05	.21	.30	.28	.60	.60	1.70	.85	.57	.39	.09	.00	6.26
(2)	.07	.44	.14	.00	.00	.05	.21	.30	.28	.60	.60	1.70	.85	.57	.39	.09	.00	6.26
8.1-10.0	0	0	0	0	0	1	7	0	1	12	6	51	5	0	0	0	0	83
(1)	.00	.00	.00	.00	.00	.02	.16	.00	.02	.28	.14	1.17	.11	.00	.00	.00	.00	1.90
(2)	.00	.00	.00	.00	.00	.02	.16	.00	.02	.28	.14	1.17	.11	.00	.00	.00	.00	1.90
10.1-40.3	0	0	0	0	0	0	1	0	1	0	0	45	7	0	0	0	0	54
(1)	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	1.03	.16	.00	.00	.00	.00	1.24
(2)	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	1.03	.16	.00	.00	.00	.00	1.24
ALL SPEEDS	308	778	473	181	154	106	164	182	222	339	427	485	183	116	134	111	0	4363
(1)	7.06	17.83	10.84	4.15	3.53	2.43	3.76	4.17	5.09	7.77	9.79	11.12	4.19	2.66	3.07	2.54	.00	100.00
(2)	7.06	17.83	10.84	4.15	3.53	2.43	3.76	4.17	5.09	7.77	9.79	11.12	4.19	2.66	3.07	2.54	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-62 {SSES 197' (60-m) 2001-2006 November JFD}

(Page 1 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = .87**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.1- 1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.6- 2.0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.56	.00	.00	.00	.00	.00	.00	.00	5.56
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05
2.1- 3.0	0	0	0	0	0	0	0	0	1	4	2	0	0	0	0	0	0	7
(1)	.00	.00	.00	.00	.00	.00	.00	.00	2.78	11.11	5.56	.00	.00	.00	.00	.00	.00	19.44
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.10	.05	.00	.00	.00	.00	.00	.00	.17
3.1- 4.0	1	0	0	0	0	0	0	0	0	3	5	0	0	0	0	1	0	10
(1)	2.78	.00	.00	.00	.00	.00	.00	.00	.00	8.33	13.89	.00	.00	.00	.00	2.78	.00	27.78
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.07	.12	.00	.00	.00	.00	.02	.00	.24
4.1- 5.0	0	0	0	0	0	0	0	0	1	0	6	0	0	0	0	1	0	8
(1)	.00	.00	.00	.00	.00	.00	.00	.00	2.78	.00	16.67	.00	.00	.00	.00	2.78	.00	22.22
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.14	.00	.00	.00	.00	.02	.00	.19
5.1- 6.0	0	0	0	0	0	0	0	0	1	0	3	1	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	2.78	.00	8.33	2.78	.00	.00	.00	.00	.00	13.89
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.07	.02	.00	.00	.00	.00	.00	.12

Table 2.3-62 {SSES 197' (60-m) 2001-2006 November JFD}

(Page 2 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = .87**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	2.78	.00	.00	2.78	.00	.00	.00	.00	.00	5.56
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02	.00	.00	.00	.00	.00	.05
8.1-10.0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.56	.00	.00	.00	.00	.00	.00	.00	5.56
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	1	0	0	0	0	0	0	0	4	11	16	2	0	0	0	2	0	36
(1)	2.78	.00	.00	.00	.00	.00	.00	.00	11.11	30.56	44.44	5.56	.00	.00	.00	5.56	.00	100.00
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.10	.26	.39	.05	.00	.00	.00	.05	.00	.87

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-62—{SSES 197' (60-m) 2001-2006 November JFD - continued}

(Page 1 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 1.37**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.1- 1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.6- 2.0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.75	.00	.00	.00	.00	.00	.00	.00	1.75
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02
2.1- 3.0	0	0	0	0	0	0	0	1	1	3	3	2	0	0	0	0	0	10
(1)	.00	.00	.00	.00	.00	.00	.00	1.75	1.75	5.26	5.26	3.51	.00	.00	.00	.00	.00	17.54
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.02	.07	.07	.05	.00	.00	.00	.00	.00	.24
3.1- 4.0	0	1	0	0	0	0	0	0	0	1	4	1	0	0	0	0	0	7
(1)	.00	1.75	.00	.00	.00	.00	.00	.00	.00	1.75	7.02	1.75	.00	.00	.00	.00	.00	12.28
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02	.10	.02	.00	.00	.00	.00	.00	.17
4.1- 5.0	0	0	0	0	0	0	0	0	2	0	4	4	1	0	0	0	0	11
(1)	.00	.00	.00	.00	.00	.00	.00	.00	3.51	.00	7.02	7.02	1.75	.00	.00	.00	.00	19.30
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.10	.10	.02	.00	.00	.00	.00	.26
5.1- 6.0	0	0	0	0	0	0	0	0	0	2	4	2	1	0	0	0	0	9
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.51	7.02	3.51	1.75	.00	.00	.00	.00	15.79
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.10	.05	.02	.00	.00	.00	.00	.22

Table 2.3-62—{SSES 197' (60-m) 2001-2006 November JFD - continued}

(Page 2 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = 1.37**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	1	0	0	5	7	0	0	0	0	0	13
(1)	.00	.00	.00	.00	.00	.00	.00	1.75	.00	.00	8.77	12.28	.00	.00	.00	.00	.00	22.81
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.12	.17	.00	.00	.00	.00	.00	.31
8.1-10.0	0	0	0	0	0	0	0	0	0	3	2	1	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.26	3.51	1.75	.00	.00	.00	.00	.00	10.53
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.05	.02	.00	.00	.00	.00	.00	.14
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	1	0	0	0	0	0	2	3	10	22	17	2	0	0	0	0	57
(1)	.00	1.75	.00	.00	.00	.00	.00	3.51	5.26	17.54	38.60	29.82	3.51	.00	.00	.00	.00	100.00
(2)	.00	.02	.00	.00	.00	.00	.00	.05	.07	.24	.53	.41	.05	.00	.00	.00	.00	1.37

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-62—{SSES 197' (60-m) 2001-2006 November JFD - continued}

(Page 1 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 2.72

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.88	.00	.00	.00	.00	.00	.88	.00	.00	.00	1.77
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02	.00	.00	.00	.05
1.1- 1.5	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	3.54	.00	.00	.00	.00	.00	.00	.00	.00	3.54
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.10
1.6- 2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.1- 3.0	0	1	1	0	0	0	0	0	0	3	6	0	0	0	0	0	0	11
(1)	.00	.88	.88	.00	.00	.00	.00	.00	.00	2.65	5.31	.00	.00	.00	.00	.00	.00	9.73
(2)	.00	.02	.02	.00	.00	.00	.00	.00	.00	.07	.14	.00	.00	.00	.00	.00	.00	.26
3.1- 4.0	0	1	2	0	0	0	1	0	0	1	6	3	1	0	0	0	0	15
(1)	.00	.88	1.77	.00	.00	.00	.88	.00	.00	.88	5.31	2.65	.88	.00	.00	.00	.00	13.27
(2)	.00	.02	.05	.00	.00	.00	.02	.00	.00	.02	.14	.07	.02	.00	.00	.00	.00	.36
4.1- 5.0	1	0	0	0	0	0	0	3	5	0	7	6	0	0	1	1	0	24
(1)	.88	.00	.00	.00	.00	.00	.00	2.65	4.42	.00	6.19	5.31	.00	.00	.88	.88	.00	21.24
(2)	.02	.00	.00	.00	.00	.00	.00	.07	.12	.00	.17	.14	.00	.00	.02	.02	.00	.58
5.1- 6.0	4	0	0	0	0	0	0	1	1	1	4	10	1	0	0	3	0	25
(1)	3.54	.00	.00	.00	.00	.00	.00	.88	.88	.88	3.54	8.85	.88	.00	.00	2.65	.00	22.12
(2)	.10	.00	.00	.00	.00	.00	.00	.02	.02	.02	.10	.24	.02	.00	.00	.07	.00	.60

Table 2.3-62—{SSES 197' (60-m) 2001-2006 November JFD - continued}

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SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 2.72**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	1	1	0	0	0	0	0	2	1	2	4	13	0	0	1	1	0	26
(1)	.88	.88	.00	.00	.00	.00	.00	1.77	.88	1.77	3.54	11.50	.00	.00	.88	.88	.00	23.01
(2)	.02	.02	.00	.00	.00	.00	.00	.05	.02	.05	.10	.31	.00	.00	.02	.02	.00	.63
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.31	.00	.00	.00	.00	.00	5.31
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	.14
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	6	3	3	0	0	0	1	7	11	7	27	38	2	1	2	5	0	113
(1)	5.31	2.65	2.65	.00	.00	.00	.88	6.19	9.73	6.19	23.89	33.63	1.77	.88	1.77	4.42	.00	100.00
(2)	.14	.07	.07	.00	.00	.00	.02	.17	.26	.17	.65	.91	.05	.02	.05	.12	.00	2.72

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-62—{SSES 197' (60-m) 2001-2006 November JFD - continued}

(Page 1 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 40.51**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	0	2	6	5	8	6	6	5	4	5	1	0	1	1	0	0	0	50
(1)	.00	.12	.36	.30	.48	.36	.36	.30	.24	.30	.06	.00	.06	.06	.00	.00	.00	2.97
(2)	.00	.05	.14	.12	.19	.14	.14	.12	.10	.12	.02	.00	.02	.02	.00	.00	.00	1.20
1.1- 1.5	5	9	9	5	2	2	8	9	12	10	12	1	0	0	0	0	0	84
(1)	.30	.53	.53	.30	.12	.12	.48	.53	.71	.59	.71	.06	.00	.00	.00	.00	.00	4.99
(2)	.12	.22	.22	.12	.05	.05	.19	.22	.29	.24	.29	.02	.00	.00	.00	.00	.00	2.02
1.6- 2.0	3	10	4	1	4	4	2	8	8	19	13	4	2	1	1	1	0	85
(1)	.18	.59	.24	.06	.24	.24	.12	.48	.48	1.13	.77	.24	.12	.06	.06	.06	.00	5.05
(2)	.07	.24	.10	.02	.10	.10	.05	.19	.19	.46	.31	.10	.05	.02	.02	.02	.00	2.05
2.1- 3.0	16	27	10	1	3	5	23	14	7	16	33	18	15	10	6	4	0	208
(1)	.95	1.60	.59	.06	.18	.30	1.37	.83	.42	.95	1.96	1.07	.89	.59	.36	.24	.00	12.36
(2)	.39	.65	.24	.02	.07	.12	.55	.34	.17	.39	.79	.43	.36	.24	.14	.10	.00	5.01
3.1- 4.0	29	31	22	2	3	6	15	24	8	5	29	27	23	18	20	27	0	289
(1)	1.72	1.84	1.31	.12	.18	.36	.89	1.43	.48	.30	1.72	1.60	1.37	1.07	1.19	1.60	.00	17.17
(2)	.70	.75	.53	.05	.07	.14	.36	.58	.19	.12	.70	.65	.55	.43	.48	.65	.00	6.96
4.1- 5.0	21	41	22	0	2	3	12	13	7	9	16	30	28	26	37	44	0	311
(1)	1.25	2.44	1.31	.00	.12	.18	.71	.77	.42	.53	.95	1.78	1.66	1.54	2.20	2.61	.00	18.48
(2)	.51	.99	.53	.00	.05	.07	.29	.31	.17	.22	.39	.72	.67	.63	.89	1.06	.00	7.48
5.1- 6.0	18	17	5	0	0	0	17	9	6	4	19	30	23	22	34	33	0	237
(1)	1.07	1.01	.30	.00	.00	.00	1.01	.53	.36	.24	1.13	1.78	1.37	1.31	2.02	1.96	.00	14.08
(2)	.43	.41	.12	.00	.00	.00	.41	.22	.14	.10	.46	.72	.55	.53	.82	.79	.00	5.70

Table 2.3-62—{SSES 197' (60-m) 2001-2006 November JFD - continued}

(Page 2 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS D — CLASS FREQUENCY (PERCENT) = 40.51

	WIND DIRECTION FROM																	
SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	11	5	2	0	0	0	11	17	5	14	26	74	37	12	40	27	0	281
(1)	.65	.30	.12	.00	.00	.00	.65	1.01	.30	.83	1.54	4.40	2.20	.71	2.38	1.60	.00	16.70
(2)	.26	.12	.05	.00	.00	.00	.26	.41	.12	.34	.63	1.78	.89	.29	.96	.65	.00	6.76
8.1-10.0	0	0	0	0	0	0	5	13	2	5	8	23	10	19	4	3	0	92
(1)	.00	.00	.00	.00	.00	.00	.30	.77	.12	.30	.48	1.37	.59	1.13	.24	.18	.00	5.47
(2)	.00	.00	.00	.00	.00	.00	.12	.31	.05	.12	.19	.55	.24	.46	.10	.07	.00	2.21
10.1-40.3	0	0	0	0	0	0	0	6	5	3	0	18	7	5	1	0	0	45
(1)	.00	.00	.00	.00	.00	.00	.00	.36	.30	.18	.00	1.07	.42	.30	.06	.00	.00	2.67
(2)	.00	.00	.00	.00	.00	.00	.00	.14	.12	.07	.00	.43	.17	.12	.02	.00	.00	1.08
ALL SPEEDS	103	143	80	14	22	26	99	118	64	90	157	225	146	114	143	139	0	1683
(1)	6.12	8.50	4.75	.83	1.31	1.54	5.88	7.01	3.80	5.35	9.33	13.37	8.67	6.77	8.50	8.26	.00	100.00
(2)	2.48	3.44	1.93	.34	.53	.63	2.38	2.84	1.54	2.17	3.78	5.42	3.51	2.74	3.44	3.35	.00	40.51

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-62—{SSES 197' (60-m) 2001-2006 November JFD - continued}

(Page 1 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 31.07**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	4
(1)	.00	.00	.08	.08	.00	.00	.08	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.31
(2)	.00	.00	.02	.02	.00	.00	.02	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.10
.5- 1.0	6	20	19	18	15	24	26	16	13	18	8	0	2	0	0	2	0	187
(1)	.46	1.55	1.47	1.39	1.16	1.86	2.01	1.24	1.01	1.39	.62	.00	.15	.00	.00	.15	.00	14.48
(2)	.14	.48	.46	.43	.36	.58	.63	.39	.31	.43	.19	.00	.05	.00	.00	.05	.00	4.50
1.1- 1.5	11	33	25	8	12	6	11	20	15	17	19	4	3	0	0	3	0	187
(1)	.85	2.56	1.94	.62	.93	.46	.85	1.55	1.16	1.32	1.47	.31	.23	.00	.00	.23	.00	14.48
(2)	.26	.79	.60	.19	.29	.14	.26	.48	.36	.41	.46	.10	.07	.00	.00	.07	.00	4.50
1.6- 2.0	15	33	17	9	8	1	5	6	7	11	19	10	2	0	1	2	0	146
(1)	1.16	2.56	1.32	.70	.62	.08	.39	.46	.54	.85	1.47	.77	.15	.00	.08	.15	.00	11.31
(2)	.36	.79	.41	.22	.19	.02	.12	.14	.17	.26	.46	.24	.05	.00	.02	.05	.00	3.51
2.1- 3.0	22	29	27	10	12	8	7	16	15	22	29	15	8	5	8	7	0	240
(1)	1.70	2.25	2.09	.77	.93	.62	.54	1.24	1.16	1.70	2.25	1.16	.62	.39	.62	.54	.00	18.59
(2)	.53	.70	.65	.24	.29	.19	.17	.39	.36	.53	.70	.36	.19	.12	.19	.17	.00	5.78
3.1- 4.0	15	25	10	5	2	8	5	12	7	32	20	20	8	4	8	7	0	188
(1)	1.16	1.94	.77	.39	.15	.62	.39	.93	.54	2.48	1.55	1.55	.62	.31	.62	.54	.00	14.56
(2)	.36	.60	.24	.12	.05	.19	.12	.29	.17	.77	.48	.48	.19	.10	.19	.17	.00	4.52
4.1- 5.0	7	11	3	0	0	1	3	5	8	25	27	23	4	0	8	2	0	127
(1)	.54	.85	.23	.00	.00	.08	.23	.39	.62	1.94	2.09	1.78	.31	.00	.62	.15	.00	9.84
(2)	.17	.26	.07	.00	.00	.02	.07	.12	.19	.60	.65	.55	.10	.00	.19	.05	.00	3.06
5.1- 6.0	2	5	7	0	0	0	2	3	2	14	12	26	1	1	4	3	0	82
(1)	.15	.39	.54	.00	.00	.00	.15	.23	.15	1.08	.93	2.01	.08	.08	.31	.23	.00	6.35
(2)	.05	.12	.17	.00	.00	.00	.05	.07	.05	.34	.29	.63	.02	.02	.10	.07	.00	1.97

Table 2.3-62—{SSES 197' (60-m) 2001-2006 November JFD - continued}

(Page 2 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 31.07**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	1	1	1	0	0	4	6	13	21	4	23	2	0	1	1	0	78
(1)	.00	.08	.08	.08	.00	.00	.31	.46	1.01	1.63	.31	1.78	.15	.00	.08	.08	.00	6.04
(2)	.00	.02	.02	.02	.00	.00	.10	.14	.31	.51	.10	.55	.05	.00	.02	.02	.00	1.88
8.1-10.0	0	0	0	0	0	5	1	5	13	13	2	2	0	0	0	0	0	41
(1)	.00	.00	.00	.00	.00	.39	.08	.39	1.01	1.01	.15	.15	.00	.00	.00	.00	.00	3.18
(2)	.00	.00	.00	.00	.00	.12	.02	.12	.31	.31	.05	.05	.00	.00	.00	.00	.00	.99
10.1-40.3	0	0	0	0	0	0	0	6	3	0	1	1	0	0	0	0	0	11
(1)	.00	.00	.00	.00	.00	.00	.00	.46	.23	.00	.08	.08	.00	.00	.00	.00	.00	.85
(2)	.00	.00	.00	.00	.00	.00	.00	.14	.07	.00	.02	.02	.00	.00	.00	.00	.00	.26
ALL SPEEDS	78	157	110	52	49	53	65	95	96	174	141	124	30	10	30	27	0	1291
(1)	6.04	12.16	8.52	4.03	3.80	4.11	5.03	7.36	7.44	13.48	10.92	9.60	2.32	.77	2.32	2.09	.00	100.00
(2)	1.88	3.78	2.65	1.25	1.18	1.28	1.56	2.29	2.31	4.19	3.39	2.98	.72	.24	.72	.65	.00	31.07

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-62—{SSES 197' (60-m) 2001-2006 November JFD - continued}

(Page 1 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS F — CLASS FREQUENCY (PERCENT) = 11.26

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.21	.21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.43
(2)	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
.5- 1.0	1	5	18	13	12	9	8	5	7	2	2	1	0	1	0	0	0	84
(1)	.21	1.07	3.85	2.78	2.56	1.92	1.71	1.07	1.50	.43	.43	.21	.00	.21	.00	.00	.00	17.95
(2)	.02	.12	.43	.31	.29	.22	.19	.12	.17	.05	.05	.02	.00	.02	.00	.00	.00	2.02
1.1- 1.5	7	33	26	14	8	7	6	5	8	3	1	1	0	0	0	1	0	120
(1)	1.50	7.05	5.56	2.99	1.71	1.50	1.28	1.07	1.71	.64	.21	.21	.00	.00	.00	.21	.00	25.64
(2)	.17	.79	.63	.34	.19	.17	.14	.12	.19	.07	.02	.02	.00	.00	.00	.02	.00	2.89
1.6- 2.0	5	42	10	3	1	2	1	1	5	5	3	1	0	2	2	1	0	84
(1)	1.07	8.97	2.14	.64	.21	.43	.21	.21	1.07	1.07	.64	.21	.00	.43	.43	.21	.00	17.95
(2)	.12	1.01	.24	.07	.02	.05	.02	.02	.12	.12	.07	.02	.00	.05	.05	.02	.00	2.02
2.1- 3.0	20	35	12	2	6	0	0	1	4	13	16	0	0	0	0	0	0	109
(1)	4.27	7.48	2.56	.43	1.28	.00	.00	.21	.85	2.78	3.42	.00	.00	.00	.00	.00	.00	23.29
(2)	.48	.84	.29	.05	.14	.00	.00	.02	.10	.31	.39	.00	.00	.00	.00	.00	.00	2.62
3.1- 4.0	2	6	5	0	0	1	0	0	0	8	10	2	0	0	0	0	0	34
(1)	.43	1.28	1.07	.00	.00	.21	.00	.00	.00	1.71	2.14	.43	.00	.00	.00	.00	.00	7.26
(2)	.05	.14	.12	.00	.00	.02	.00	.00	.00	.19	.24	.05	.00	.00	.00	.00	.00	.82
4.1- 5.0	0	0	0	0	0	1	0	0	1	3	4	14	0	0	1	0	0	24
(1)	.00	.00	.00	.00	.00	.21	.00	.00	.21	.64	.85	2.99	.00	.00	.21	.00	.00	5.13
(2)	.00	.00	.00	.00	.00	.02	.00	.00	.02	.07	.10	.34	.00	.00	.02	.00	.00	.58
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.21	.85	.00	.00	.00	.00	.00	1.07
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.10	.00	.00	.00	.00	.00	.12

Table 2.3-62—{SSES 197' (60-m) 2001-2006 November JFD - continued}

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SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 11.26**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.28	.00	.00	.00	.00	.00	1.28
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	.14
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	35	121	71	33	28	20	15	12	25	34	37	29	0	3	3	2	0	468
(1)	7.48	25.85	15.17	7.05	5.98	4.27	3.21	2.56	5.34	7.26	7.91	6.20	.00	.64	.64	.43	.00	100.00
(2)	.84	2.91	1.71	.79	.67	.48	.36	.29	.60	.82	.89	.70	.00	.07	.07	.05	.00	11.26

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-62—{SSES 197' (60-m) 2001-2006 November JFD - continued}

(Page 1 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS G — CLASS FREQUENCY (PERCENT) = 12.20

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.20	.00	.39	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.59
(2)	.00	.00	.02	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
.5- 1.0	2	10	16	11	11	8	6	1	1	0	0	0	0	0	0	0	0	66
(1)	.39	1.97	3.16	2.17	2.17	1.58	1.18	.20	.20	.00	.00	.00	.00	.00	.00	.00	.00	13.02
(2)	.05	.24	.39	.26	.26	.19	.14	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	1.59
1.1- 1.5	9	44	47	13	9	5	12	7	10	4	1	2	0	0	1	0	0	164
(1)	1.78	8.68	9.27	2.56	1.78	.99	2.37	1.38	1.97	.79	.20	.39	.00	.00	.20	.00	.00	32.35
(2)	.22	1.06	1.13	.31	.22	.12	.29	.17	.24	.10	.02	.05	.00	.00	.02	.00	.00	3.95
1.6- 2.0	13	58	32	6	0	2	2	0	3	3	2	3	1	0	0	0	0	125
(1)	2.56	11.44	6.31	1.18	.00	.39	.39	.00	.59	.59	.39	.59	.20	.00	.00	.00	.00	24.65
(2)	.31	1.40	.77	.14	.00	.05	.05	.00	.07	.07	.05	.07	.02	.00	.00	.00	.00	3.01
2.1- 3.0	26	39	10	1	1	0	0	3	12	9	10	0	1	1	4	0	0	117
(1)	5.13	7.69	1.97	.20	.20	.00	.00	.59	2.37	1.78	1.97	.00	.20	.20	.79	.00	.00	23.08
(2)	.63	.94	.24	.02	.02	.00	.00	.07	.29	.22	.24	.00	.02	.02	.10	.00	.00	2.82
3.1- 4.0	2	7	2	0	0	1	0	0	2	4	5	3	0	0	0	0	0	26
(1)	.39	1.38	.39	.00	.00	.20	.00	.00	.39	.79	.99	.59	.00	.00	.00	.00	.00	5.13
(2)	.05	.17	.05	.00	.00	.02	.00	.00	.05	.10	.12	.07	.00	.00	.00	.00	.00	.63
4.1- 5.0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.39	.39	.00	.00	.00	.00	.00	.79
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.00	.10
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.39	.00	.00	.00	.00	.00	.39
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05

Table 2.3-62—{SSES 197' (60-m) 2001-2006 November JFD - continued}

(Page 2 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 12.20**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	52	158	108	31	23	16	20	11	28	20	20	12	2	1	5	0	0	507
(1)	10.26	31.16	21.30	6.11	4.54	3.16	3.94	2.17	5.52	3.94	3.94	2.37	.39	.20	.99	.00	.00	100.00
(2)	1.25	3.80	2.60	.75	.55	.39	.48	.26	.67	.48	.48	.29	.05	.02	.12	.00	.00	12.20

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-62—{SSES 197' (60-m) 2001-2006 November JFD - continued}

(Page 1 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	1	2	2	3	0	1	0	0	1	0	0	0	0	0	0	0	10
(1)	.00	.02	.05	.05	.07	.00	.02	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.24
(2)	.00	.02	.05	.05	.07	.00	.02	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.24
.5- 1.0	9	37	59	47	46	47	46	28	25	25	11	1	3	3	0	2	0	389
(1)	.22	.89	1.42	1.13	1.11	1.13	1.11	.67	.60	.60	.26	.02	.07	.07	.00	.05	.00	9.36
(2)	.22	.89	1.42	1.13	1.11	1.13	1.11	.67	.60	.60	.26	.02	.07	.07	.00	.05	.00	9.36
1.1- 1.5	32	119	107	40	31	20	37	41	49	34	33	8	3	0	1	4	0	559
(1)	.77	2.86	2.58	.96	.75	.48	.89	.99	1.18	.82	.79	.19	.07	.00	.02	.10	.00	13.45
(2)	.77	2.86	2.58	.96	.75	.48	.89	.99	1.18	.82	.79	.19	.07	.00	.02	.10	.00	13.45
1.6- 2.0	36	143	63	19	13	9	10	15	23	41	37	18	5	3	4	4	0	443
(1)	.87	3.44	1.52	.46	.31	.22	.24	.36	.55	.99	.89	.43	.12	.07	.10	.10	.00	10.66
(2)	.87	3.44	1.52	.46	.31	.22	.24	.36	.55	.99	.89	.43	.12	.07	.10	.10	.00	10.66
2.1- 3.0	84	131	60	14	22	13	30	35	40	70	99	35	24	16	18	11	0	702
(1)	2.02	3.15	1.44	.34	.53	.31	.72	.84	.96	1.68	2.38	.84	.58	.39	.43	.26	.00	16.90
(2)	2.02	3.15	1.44	.34	.53	.31	.72	.84	.96	1.68	2.38	.84	.58	.39	.43	.26	.00	16.90
3.1- 4.0	49	71	41	7	5	16	21	36	17	54	79	56	32	22	28	35	0	569
(1)	1.18	1.71	.99	.17	.12	.39	.51	.87	.41	1.30	1.90	1.35	.77	.53	.67	.84	.00	13.69
(2)	1.18	1.71	.99	.17	.12	.39	.51	.87	.41	1.30	1.90	1.35	.77	.53	.67	.84	.00	13.69
4.1- 5.0	29	52	25	0	2	5	15	21	24	37	66	79	33	26	47	48	0	509
(1)	.70	1.25	.60	.00	.05	.12	.36	.51	.58	.89	1.59	1.90	.79	.63	1.13	1.16	.00	12.25
(2)	.70	1.25	.60	.00	.05	.12	.36	.51	.58	.89	1.59	1.90	.79	.63	1.13	1.16	.00	12.25
5.1- 6.0	24	22	12	0	0	0	19	13	10	21	43	75	26	23	38	39	0	365
(1)	.58	.53	.29	.00	.00	.00	.46	.31	.24	.51	1.03	1.81	.63	.55	.91	.94	.00	8.78
(2)	.58	.53	.29	.00	.00	.00	.46	.31	.24	.51	1.03	1.81	.63	.55	.91	.94	.00	8.78

Table 2.3-62—{SSES 197' (60-m) 2001-2006 November JFD - continued}

(Page 2 of 2)

SSES NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

	WIND DIRECTION FROM																	
SPEED m/s	**N**	**NNE**	**NE**	**ENE**	**E**	**ESE**	**SE**	**SSE**	**S**	**SSW**	**SW**	**WSW**	**W**	**WNW**	**NW**	**NNW**	**VRBL**	**TOTAL**
6.1- 8.0	12	7	3	1	0	0	15	26	20	37	39	124	39	12	42	29	0	406
(1)	.29	.17	.07	.02	.00	.00	.36	.63	.48	.89	.94	2.98	.94	.29	1.01	.70	.00	9.77
(2)	.29	.17	.07	.02	.00	.00	.36	.63	.48	.89	.94	2.98	.94	.29	1.01	.70	.00	9.77
8.1-10.0	0	0	0	0	0	5	6	18	15	23	12	32	10	19	4	3	0	147
(1)	.00	.00	.00	.00	.00	.12	.14	.43	.36	.55	.29	.77	.24	.46	.10	.07	.00	3.54
(2)	.00	.00	.00	.00	.00	.12	.14	.43	.36	.55	.29	.77	.24	.46	.10	.07	.00	3.54
10.1-40.3	0	0	0	0	0	0	0	12	8	3	1	19	7	5	1	0	0	56
(1)	.00	.00	.00	.00	.00	.00	.00	.29	.19	.07	.02	.46	.17	.12	.02	.00	.00	1.35
(2)	.00	.00	.00	.00	.00	.00	.00	.29	.19	.07	.02	.46	.17	.12	.02	.00	.00	1.35
ALL SPEEDS	275	583	372	130	122	115	200	245	231	346	420	447	182	129	183	175	0	4155
(1)	6.62	14.03	8.95	3.13	2.94	2.77	4.81	5.90	5.56	8.33	10.11	10.76	4.38	3.10	4.40	4.21	.00	100.00
(2)	6.62	14.03	8.95	3.13	2.94	2.77	4.81	5.90	5.56	8.33	10.11	10.76	4.38	3.10	4.40	4.21	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-63 {SSES 197' (60-m) 2001-2006 December JFD}

(Page 1 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = .78**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.1- 1.5	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.86	.00	.00	.00	.00	.00	.00	2.86
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02
1.6- 2.0	0	0	0	0	1	0	0	0	1	5	1	0	0	0	0	0	0	8
(1)	.00	.00	.00	.00	2.86	.00	.00	.00	2.86	14.29	2.86	.00	.00	.00	.00	.00	.00	22.86
(2)	.00	.00	.00	.00	.02	.00	.00	.00	.02	.11	.02	.00	.00	.00	.00	.00	.00	.18
2.1- 3.0	0	0	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	5.71	5.71	5.71	.00	.00	.00	.00	.00	.00	17.14
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.04	.04	.04	.00	.00	.00	.00	.00	.00	.13
3.1- 4.0	0	0	0	0	0	0	0	0	0	2	3	1	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.71	8.57	2.86	.00	.00	.00	.00	.00	17.14
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.07	.02	.00	.00	.00	.00	.00	.13
4.1- 5.0	0	0	0	0	0	0	1	0	0	1	4	1	0	0	0	0	0	7
(1)	.00	.00	.00	.00	.00	.00	2.86	.00	.00	2.86	11.43	2.86	.00	.00	.00	.00	.00	20.00
(2)	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02	.09	.02	.00	.00	.00	.00	.00	.16
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	11.43	2.86	.00	.00	.00	.00	.00	14.29
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.02	.00	.00	.00	.00	.00	.11

Table 2.3-63 {SSES 197' (60-m) 2001-2006 December JFD}

(Page 2 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS A** **CLASS FREQUENCY (PERCENT) = .78**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.86	.00	.00	.00	.00	.00	.00	2.86
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.86	.00	.00	.00	.00	.00	2.86
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	0	0	0	1	0	1	0	3	10	16	4	0	0	0	0	0	35
(1)	.00	.00	.00	.00	2.86	.00	2.86	.00	8.57	28.57	45.71	11.43	.00	.00	.00	.00	.00	100.00
(2)	.00	.00	.00	.00	.02	.00	.02	.00	.07	.22	.36	.09	.00	.00	.00	.00	.00	.78

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-63—{SSES 197' (60-m) 2001-2006 December JFD - continued}

(Page 1 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = .76**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.1- 1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.6- 2.0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.88	5.88	.00	.00	.00	.00	.00	.00	11.76
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.04	.00	.00	.00	.00	.00	.00	.09
2.1- 3.0	0	0	0	0	0	0	0	0	0	1	4	1	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.94	11.76	2.94	.00	.00	.00	.00	.00	17.65
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.09	.02	.00	.00	.00	.00	.00	.13
3.1- 4.0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	17.65	.00	.00	.00	.00	.00	.00	17.65
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13	.00	.00	.00	.00	.00	.00	.13
4.1- 5.0	0	0	1	0	0	0	0	0	0	0	5	3	0	0	1	0	0	10
(1)	.00	.00	2.94	.00	.00	.00	.00	.00	.00	.00	14.71	8.82	.00	.00	2.94	.00	.00	29.41
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.11	.07	.00	.00	.02	.00	.00	.22
5.1- 6.0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	17.65	.00	.00	.00	.00	.00	.00	17.65
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13	.00	.00	.00	.00	.00	.00	.13

Table 2.3-63—{SSES 197' (60-m) 2001-2006 December JFD - continued}

(Page 2 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS B** **CLASS FREQUENCY (PERCENT) = .76**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.94	.00	.00	.00	.00	.00	.00	2.94
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.94	.00	.00	.00	.00	.00	2.94
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	0	1	0	0	0	0	0	0	3	24	5	0	0	1	0	0	34
(1)	.00	.00	2.94	.00	.00	.00	.00	.00	.00	8.82	70.59	14.71	.00	.00	2.94	.00	.00	100.00
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.07	.54	.11	.00	.00	.02	.00	.00	.76

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-63—{SSES 197' (60-m) 2001-2006 December JFD - continued}

(Page 1 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS C — CLASS FREQUENCY (PERCENT) = 2.04

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	4
(1)	.00	.00	2.20	.00	.00	.00	2.20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.40
(2)	.00	.00	.04	.00	.00	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
1.1- 1.5	0	0	1	0	0	1	0	0	0	1	1	0	0	0	0	0	0	4
(1)	.00	.00	1.10	.00	.00	1.10	.00	.00	.00	1.10	1.10	.00	.00	.00	.00	.00	.00	4.40
(2)	.00	.00	.02	.00	.00	.02	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.09
1.6- 2.0	0	0	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0	5
(1)	.00	.00	1.10	.00	.00	.00	.00	.00	1.10	1.10	1.10	1.10	.00	.00	.00	.00	.00	5.49
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.02	.02	.02	.02	.00	.00	.00	.00	.00	.11
2.1- 3.0	0	1	1	0	0	0	0	0	1	2	8	1	0	0	0	0	0	14
(1)	.00	1.10	1.10	.00	.00	.00	.00	.00	1.10	2.20	8.79	1.10	.00	.00	.00	.00	.00	15.38
(2)	.00	.02	.02	.00	.00	.00	.00	.00	.02	.04	.18	.02	.00	.00	.00	.00	.00	.31
3.1- 4.0	1	2	2	0	0	0	0	0	0	0	1	1	1	0	0	0	0	8
(1)	1.10	2.20	2.20	.00	.00	.00	.00	.00	.00	.00	1.10	1.10	1.10	.00	.00	.00	.00	8.79
(2)	.02	.04	.04	.00	.00	.00	.00	.00	.00	.00	.02	.02	.02	.00	.00	.00	.00	.18
4.1- 5.0	0	0	0	0	0	0	0	0	1	0	8	3	0	0	0	4	0	16
(1)	.00	.00	.00	.00	.00	.00	.00	.00	1.10	.00	8.79	3.30	.00	.00	.00	4.40	.00	17.58
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.18	.07	.00	.00	.00	.09	.00	.36
5.1- 6.0	0	0	1	0	0	0	1	0	0	0	2	6	0	0	1	3	0	14
(1)	.00	.00	1.10	.00	.00	.00	1.10	.00	.00	.00	2.20	6.59	.00	.00	1.10	3.30	.00	15.38
(2)	.00	.00	.02	.00	.00	.00	.02	.00	.00	.00	.04	.13	.00	.00	.02	.07	.00	.31

Table 2.3-63—{SSES 197' (60-m) 2001-2006 December JFD - continued}

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SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS C** **CLASS FREQUENCY (PERCENT) = 2.04**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	2	6	13	0	0	0	0	0	21
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.20	6.59	14.29	.00	.00	.00	.00	.00	23.08
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.13	.29	.00	.00	.00	.00	.00	.47
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.49	.00	.00	.00	.00	.00	5.49
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.00	.00	.00	.00	.00	.11
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	1	3	8	0	0	1	3	0	3	6	27	30	1	0	1	7	0	91
(1)	1.10	3.30	8.79	.00	.00	1.10	3.30	.00	3.30	6.59	29.67	32.97	1.10	.00	1.10	7.69	.00	100.00
(2)	.02	.07	.18	.00	.00	.02	.07	.00	.07	.13	.60	.67	.02	.00	.02	.16	.00	2.04

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-63—{SSES 197' (60-m) 2001-2006 December JFD - continued}

(Page 1 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 45.99**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	1	1	7	3	3	7	8	6	4	3	2	1	2	0	2	2	0	52
(1)	.05	.05	.34	.15	.15	.34	.39	.29	.19	.15	.10	.05	.10	.00	.10	.10	.00	2.53
(2)	.02	.02	.16	.07	.07	.16	.18	.13	.09	.07	.04	.02	.04	.00	.04	.04	.00	1.16
1.1- 1.5	2	10	8	10	3	1	9	12	10	20	10	3	3	1	0	1	0	103
(1)	.10	.49	.39	.49	.15	.05	.44	.58	.49	.97	.49	.15	.15	.05	.00	.05	.00	5.02
(2)	.04	.22	.18	.22	.07	.02	.20	.27	.22	.45	.22	.07	.07	.02	.00	.02	.00	2.31
1.6- 2.0	1	8	6	4	5	4	1	6	6	15	24	8	2	4	1	1	0	96
(1)	.05	.39	.29	.19	.24	.19	.05	.29	.29	.73	1.17	.39	.10	.19	.05	.05	.00	4.68
(2)	.02	.18	.13	.09	.11	.09	.02	.13	.13	.34	.54	.18	.04	.09	.02	.02	.00	2.15
2.1- 3.0	16	20	21	19	10	4	19	11	4	22	42	26	12	7	7	3	0	243
(1)	.78	.97	1.02	.93	.49	.19	.93	.54	.19	1.07	2.05	1.27	.58	.34	.34	.15	.00	11.84
(2)	.36	.45	.47	.43	.22	.09	.43	.25	.09	.49	.94	.58	.27	.16	.16	.07	.00	5.44
3.1- 4.0	17	18	15	8	3	5	15	10	12	12	37	30	19	11	19	18	0	249
(1)	.83	.88	.73	.39	.15	.24	.73	.49	.58	.58	1.80	1.46	.93	.54	.93	.88	.00	12.13
(2)	.38	.40	.34	.18	.07	.11	.34	.22	.27	.27	.83	.67	.43	.25	.43	.40	.00	5.58
4.1- 5.0	22	17	16	5	4	3	7	6	6	11	31	44	41	24	54	49	0	340
(1)	1.07	.83	.78	.24	.19	.15	.34	.29	.29	.54	1.51	2.14	2.00	1.17	2.63	2.39	.00	16.56
(2)	.49	.38	.36	.11	.09	.07	.16	.13	.13	.25	.69	.99	.92	.54	1.21	1.10	.00	7.62
5.1- 6.0	17	9	2	2	2	2	3	2	0	11	41	74	43	36	46	53	0	343
(1)	.83	.44	.10	.10	.10	.10	.15	.10	.00	.54	2.00	3.60	2.09	1.75	2.24	2.58	.00	16.71
(2)	.38	.20	.04	.04	.04	.04	.07	.04	.00	.25	.92	1.66	.96	.81	1.03	1.19	.00	7.68

Table 2.3-63—{SSES 197' (60-m) 2001-2006 December JFD - continued}

(Page 2 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS D** **CLASS FREQUENCY (PERCENT) = 45.99**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	3	8	3	0	1	1	1	3	0	13	30	230	56	42	45	59	0	495
(1)	.15	.39	.15	.00	.05	.05	.05	.15	.00	.63	1.46	11.20	2.73	2.05	2.19	2.87	.00	24.11
(2)	.07	.18	.07	.00	.02	.02	.02	.07	.00	.29	.67	5.15	1.25	.94	1.01	1.32	.00	11.09
8.1-10.0	0	0	1	0	0	0	0	0	0	4	3	62	23	5	4	1	0	103
(1)	.00	.00	.05	.00	.00	.00	.00	.00	.00	.19	.15	3.02	1.12	.24	.19	.05	.00	5.02
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.09	.07	1.39	.52	.11	.09	.02	.00	2.31
10.1-40.3	0	0	0	0	0	0	0	0	2	3	0	18	6	0	0	0	0	29
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.10	.15	.00	.88	.29	.00	.00	.00	.00	1.41
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.04	.07	.00	.40	.13	.00	.00	.00	.00	.65
ALL SPEEDS	79	91	79	51	31	27	63	56	44	114	220	496	207	130	178	187	0	2053
(1)	3.85	4.43	3.85	2.48	1.51	1.32	3.07	2.73	2.14	5.55	10.72	24.16	10.08	6.33	8.67	9.11	.00	100.00
(2)	1.77	2.04	1.77	1.14	.69	.60	1.41	1.25	.99	2.55	4.93	11.11	4.64	2.91	3.99	4.19	.00	45.99

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-63—{SSES 197' (60-m) 2001-2006 December JFD - continued}

(Page 1 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS E — CLASS FREQUENCY (PERCENT) = 30.58

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.07	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00	.00	.00	.15
(2)	.00	.00	.00	.00	.02	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.04
.5- 1.0	8	9	17	18	12	18	14	22	15	8	7	1	2	0	0	4	0	155
(1)	.59	.66	1.25	1.32	.88	1.32	1.03	1.61	1.10	.59	.51	.07	.15	.00	.00	.29	.00	11.36
(2)	.18	.20	.38	.40	.27	.40	.31	.49	.34	.18	.16	.02	.04	.00	.00	.09	.00	3.47
1.1- 1.5	3	21	35	8	9	2	14	24	17	19	17	5	2	1	1	2	0	180
(1)	.22	1.54	2.56	.59	.66	.15	1.03	1.76	1.25	1.39	1.25	.37	.15	.07	.07	.15	.00	13.19
(2)	.07	.47	.78	.18	.20	.04	.31	.54	.38	.43	.38	.11	.04	.02	.02	.04	.00	4.03
1.6- 2.0	7	21	9	4	3	2	7	2	10	20	17	8	4	4	1	4	0	123
(1)	.51	1.54	.66	.29	.22	.15	.51	.15	.73	1.47	1.25	.59	.29	.29	.07	.29	.00	9.01
(2)	.16	.47	.20	.09	.07	.04	.16	.04	.22	.45	.38	.18	.09	.09	.02	.09	.00	2.76
2.1- 3.0	25	24	23	10	7	12	9	11	8	24	46	27	7	9	2	5	0	249
(1)	1.83	1.76	1.68	.73	.51	.88	.66	.81	.59	1.76	3.37	1.98	.51	.66	.15	.37	.00	18.24
(2)	.56	.54	.52	.22	.16	.27	.20	.25	.18	.54	1.03	.60	.16	.20	.04	.11	.00	5.58
3.1- 4.0	12	17	17	4	2	3	2	13	12	19	37	25	9	8	6	7	0	193
(1)	.88	1.25	1.25	.29	.15	.22	.15	.95	.88	1.39	2.71	1.83	.66	.59	.44	.51	.00	14.14
(2)	.27	.38	.38	.09	.04	.07	.04	.29	.27	.43	.83	.56	.20	.18	.13	.16	.00	4.32
4.1- 5.0	5	8	18	4	1	0	1	5	5	28	51	41	4	6	16	7	0	200
(1)	.37	.59	1.32	.29	.07	.00	.07	.37	.37	2.05	3.74	3.00	.29	.44	1.17	.51	.00	14.65
(2)	.11	.18	.40	.09	.02	.00	.02	.11	.11	.63	1.14	.92	.09	.13	.36	.16	.00	4.48
5.1- 6.0	2	8	13	1	1	3	2	4	1	14	22	42	3	0	6	5	0	127
(1)	.15	.59	.95	.07	.07	.22	.15	.29	.07	1.03	1.61	3.08	.22	.00	.44	.37	.00	9.30
(2)	.04	.18	.29	.02	.02	.07	.04	.09	.02	.31	.49	.94	.07	.00	.13	.11	.00	2.84

Table 2.3-63—{SSES 197' (60-m) 2001-2006 December JFD - continued}

(Page 2 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS E** **CLASS FREQUENCY (PERCENT) = 30.58**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	6	2	0	2	3	2	2	2	11	1	63	4	0	8	2	0	108
(1)	.00	.44	.15	.00	.15	.22	.15	.15	.15	.81	.07	4.62	.29	.00	.59	.15	.00	7.91
(2)	.00	.13	.04	.00	.04	.07	.04	.04	.04	.25	.02	1.41	.09	.00	.18	.04	.00	2.42
8.1-10.0	0	0	0	0	0	4	3	4	1	0	3	2	1	0	0	0	0	18
(1)	.00	.00	.00	.00	.00	.29	.22	.29	.07	.00	.22	.15	.07	.00	.00	.00	.00	1.32
(2)	.00	.00	.00	.00	.00	.09	.07	.09	.02	.00	.07	.04	.02	.00	.00	.00	.00	.40
10.1-40.3	0	0	0	0	1	1	0	0	2	2	0	4	0	0	0	0	0	10
(1)	.00	.00	.00	.00	.07	.07	.00	.00	.15	.15	.00	.29	.00	.00	.00	.00	.00	.73
(2)	.00	.00	.00	.00	.02	.02	.00	.00	.04	.04	.00	.09	.00	.00	.00	.00	.00	.22
ALL SPEEDS	62	114	134	49	39	48	54	87	74	145	201	218	36	28	40	36	0	1365
(1)	4.54	8.35	9.82	3.59	2.86	3.52	3.96	6.37	5.42	10.62	14.73	15.97	2.64	2.05	2.93	2.64	.00	100.00
(2)	1.39	2.55	3.00	1.10	.87	1.08	1.21	1.95	1.66	3.25	4.50	4.88	.81	.63	.90	.81	.00	30.58

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-63—{SSES 197' (60-m) 2001-2006 December JFD - continued}

(Page 1 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 11.67**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19
(2)	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
.5- 1.0	2	6	18	17	12	7	6	3	3	7	0	0	1	0	2	0	0	84
(1)	.38	1.15	3.45	3.26	2.30	1.34	1.15	.58	.58	1.34	.00	.00	.19	.00	.38	.00	.00	16.12
(2)	.04	.13	.40	.38	.27	.16	.13	.07	.07	.16	.00	.00	.02	.00	.04	.00	.00	1.88
1.1- 1.5	3	23	28	12	10	6	2	10	11	5	4	2	0	0	1	0	0	117
(1)	.58	4.41	5.37	2.30	1.92	1.15	.38	1.92	2.11	.96	.77	.38	.00	.00	.19	.00	.00	22.46
(2)	.07	.52	.63	.27	.22	.13	.04	.22	.25	.11	.09	.04	.00	.00	.02	.00	.00	2.62
1.6- 2.0	10	34	16	2	1	1	0	4	6	10	8	2	0	1	0	0	0	95
(1)	1.92	6.53	3.07	.38	.19	.19	.00	.77	1.15	1.92	1.54	.38	.00	.19	.00	.00	.00	18.23
(2)	.22	.76	.36	.04	.02	.02	.00	.09	.13	.22	.18	.04	.00	.02	.00	.00	.00	2.13
2.1- 3.0	22	31	12	1	1	1	2	0	9	18	17	3	0	1	3	4	0	125
(1)	4.22	5.95	2.30	.19	.19	.19	.38	.00	1.73	3.45	3.26	.58	.00	.19	.58	.77	.00	23.99
(2)	.49	.69	.27	.02	.02	.02	.04	.00	.20	.40	.38	.07	.00	.02	.07	.09	.00	2.80
3.1- 4.0	1	3	1	0	0	0	2	0	2	6	21	9	0	0	4	1	0	50
(1)	.19	.58	.19	.00	.00	.00	.38	.00	.38	1.15	4.03	1.73	.00	.00	.77	.19	.00	9.60
(2)	.02	.07	.02	.00	.00	.00	.04	.00	.04	.13	.47	.20	.00	.00	.09	.02	.00	1.12
4.1- 5.0	0	0	0	0	0	0	0	0	0	5	5	16	0	0	0	0	0	26
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.96	.96	3.07	.00	.00	.00	.00	.00	4.99
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.11	.36	.00	.00	.00	.00	.00	.58
5.1- 6.0	0	0	0	0	0	0	0	0	1	0	3	15	0	0	0	0	0	19
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.19	.00	.58	2.88	.00	.00	.00	.00	.00	3.65
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.07	.34	.00	.00	.00	.00	.00	.43

Table 2.3-63—{SSES 197' (60-m) 2001-2006 December JFD - continued}

(Page 2 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS F** **CLASS FREQUENCY (PERCENT) = 11.67**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.77	.00	.00	.00	.00	.00	.77
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.09
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	38	97	75	32	24	16	12	17	32	51	58	51	1	2	10	5	0	521
(1)	7.29	18.62	14.40	6.14	4.61	3.07	2.30	3.26	6.14	9.79	11.13	9.79	.19	.38	1.92	.96	.00	100.00
(2)	.85	2.17	1.68	.72	.54	.36	.27	.38	.72	1.14	1.30	1.14	.02	.04	.22	.11	.00	11.67

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-63—{SSES 197' (60-m) 2001-2006 December JFD - continued}

(Page 1 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 8.18**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.5- 1.0	2	2	13	18	12	6	3	3	2	0	0	0	0	0	0	0	0	61
(1)	.55	.55	3.56	4.93	3.29	1.64	.82	.82	.55	.00	.00	.00	.00	.00	.00	.00	.00	16.71
(2)	.04	.04	.29	.40	.27	.13	.07	.07	.04	.00	.00	.00	.00	.00	.00	.00	.00	1.37
1.1- 1.5	1	14	23	16	7	8	5	6	4	1	2	0	1	0	0	1	0	89
(1)	.27	3.84	6.30	4.38	1.92	2.19	1.37	1.64	1.10	.27	.55	.00	.27	.00	.00	.27	.00	24.38
(2)	.02	.31	.52	.36	.16	.18	.11	.13	.09	.02	.04	.00	.02	.00	.00	.02	.00	1.99
1.6- 2.0	10	27	21	4	1	2	1	5	6	6	4	0	0	0	0	1	0	88
(1)	2.74	7.40	5.75	1.10	.27	.55	.27	1.37	1.64	1.64	1.10	.00	.00	.00	.00	.27	.00	24.11
(2)	.22	.60	.47	.09	.02	.04	.02	.11	.13	.13	.09	.00	.00	.00	.00	.02	.00	1.97
2.1- 3.0	10	31	12	2	2	1	1	1	5	13	10	2	0	0	0	2	0	92
(1)	2.74	8.49	3.29	.55	.55	.27	.27	.27	1.37	3.56	2.74	.55	.00	.00	.00	.55	.00	25.21
(2)	.22	.69	.27	.04	.04	.02	.02	.02	.11	.29	.22	.04	.00	.00	.00	.04	.00	2.06
3.1- 4.0	0	2	0	0	0	1	0	0	1	4	13	0	0	0	0	0	0	21
(1)	.00	.55	.00	.00	.00	.27	.00	.00	.27	1.10	3.56	.00	.00	.00	.00	.00	.00	5.75
(2)	.00	.04	.00	.00	.00	.02	.00	.00	.02	.09	.29	.00	.00	.00	.00	.00	.00	.47
4.1- 5.0	0	0	0	0	0	0	0	0	1	2	0	7	0	0	0	0	0	10
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.27	.55	.00	1.92	.00	.00	.00	.00	.00	2.74
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.00	.16	.00	.00	.00	.00	.00	.22
5.1- 6.0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.27	.00	.55	.00	.00	.00	.00	.00	.82
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.04	.00	.00	.00	.00	.00	.07

Table 2.3-63—{SSES 197' (60-m) 2001-2006 December JFD - continued}

(Page 2 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS G** **CLASS FREQUENCY (PERCENT) = 8.18**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.27	.00	.00	.00	.00	.00	.00	.00	.27
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.1-40.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	23	76	69	40	22	18	10	15	19	28	29	11	1	0	0	4	0	365
(1)	6.30	20.82	18.90	10.96	6.03	4.93	2.74	4.11	5.21	7.67	7.95	3.01	.27	.00	.00	1.10	.00	100.00
(2)	.52	1.70	1.55	.90	.49	.40	.22	.34	.43	.63	.65	.25	.02	.00	.00	.09	.00	8.18

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-63—{SSES 197' (60-m) 2001-2006 December JFD - continued}

(Page 1 of 2)

SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA — STABILITY CLASS ALL — CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.2- .4	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.02	.02	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.07
(2)	.00	.00	.00	.00	.02	.02	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.07
.5- 1.0	13	18	57	56	39	38	33	34	24	18	9	2	5	0	4	6	0	356
(1)	.29	.40	1.28	1.25	.87	.85	.74	.76	.54	.40	.20	.04	.11	.00	.09	.13	.00	7.97
(2)	.29	.40	1.28	1.25	.87	.85	.74	.76	.54	.40	.20	.04	.11	.00	.09	.13	.00	7.97
1.1- 1.5	9	68	95	46	29	18	30	52	42	46	35	10	6	2	2	4	0	494
(1)	.20	1.52	2.13	1.03	.65	.40	.67	1.16	.94	1.03	.78	.22	.13	.04	.04	.09	.00	11.07
(2)	.20	1.52	2.13	1.03	.65	.40	.67	1.16	.94	1.03	.78	.22	.13	.04	.04	.09	.00	11.07
1.6- 2.0	28	90	53	14	11	9	9	17	30	59	57	19	6	9	2	6	0	419
(1)	.63	2.02	1.19	.31	.25	.20	.20	.38	.67	1.32	1.28	.43	.13	.20	.04	.13	.00	9.39
(2)	.63	2.02	1.19	.31	.25	.20	.20	.38	.67	1.32	1.28	.43	.13	.20	.04	.13	.00	9.39
2.1- 3.0	73	107	69	32	20	18	31	23	29	82	129	60	19	17	12	14	0	735
(1)	1.64	2.40	1.55	.72	.45	.40	.69	.52	.65	1.84	2.89	1.34	.43	.38	.27	.31	.00	16.47
(2)	1.64	2.40	1.55	.72	.45	.40	.69	.52	.65	1.84	2.89	1.34	.43	.38	.27	.31	.00	16.47
3.1- 4.0	31	42	35	12	5	9	19	23	27	43	118	66	29	19	29	26	0	533
(1)	.69	.94	.78	.27	.11	.20	.43	.52	.60	.96	2.64	1.48	.65	.43	.65	.58	.00	11.94
(2)	.69	.94	.78	.27	.11	.20	.43	.52	.60	.96	2.64	1.48	.65	.43	.65	.58	.00	11.94
4.1- 5.0	27	25	35	9	5	3	9	11	13	47	104	115	45	30	71	60	0	609
(1)	.60	.56	.78	.20	.11	.07	.20	.25	.29	1.05	2.33	2.58	1.01	.67	1.59	1.34	.00	13.64
(2)	.60	.56	.78	.20	.11	.07	.20	.25	.29	1.05	2.33	2.58	1.01	.67	1.59	1.34	.00	13.64
5.1- 6.0	19	17	16	3	3	5	6	6	2	26	78	140	46	36	53	61	0	517
(1)	.43	.38	.36	.07	.07	.11	.13	.13	.04	.58	1.75	3.14	1.03	.81	1.19	1.37	.00	11.58
(2)	.43	.38	.36	.07	.07	.11	.13	.13	.04	.58	1.75	3.14	1.03	.81	1.19	1.37	.00	11.58

Table 2.3-63—{SSES 197' (60-m) 2001-2006 December JFD - continued}

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SSES DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA **STABILITY CLASS ALL** **CLASS FREQUENCY (PERCENT) = 100.00**

WIND DIRECTION FROM

SPEED m/s	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
6.1- 8.0	3	14	5	0	3	4	3	5	2	27	39	310	60	42	53	61	0	631
(1)	.07	.31	.11	.00	.07	.09	.07	.11	.04	.60	.87	6.94	1.34	.94	1.19	1.37	.00	14.14
(2)	.07	.31	.11	.00	.07	.09	.07	.11	.04	.60	.87	6.94	1.34	.94	1.19	1.37	.00	14.14
8.1-10.0	0	0	1	0	0	4	3	4	1	4	6	71	24	5	4	1	0	128
(1)	.00	.00	.02	.00	.00	.09	.07	.09	.02	.09	.13	1.59	.54	.11	.09	.02	.00	2.87
(2)	.00	.00	.02	.00	.00	.09	.07	.09	.02	.09	.13	1.59	.54	.11	.09	.02	.00	2.87
10.1-40.3	0	0	0	0	1	1	0	0	4	5	0	22	6	0	0	0	0	39
(1)	.00	.00	.00	.00	.02	.02	.00	.00	.09	.11	.00	.49	.13	.00	.00	.00	.00	.87
(2)	.00	.00	.00	.00	.02	.02	.00	.00	.09	.11	.00	.49	.13	.00	.00	.00	.00	.87
ALL SPEEDS	203	381	366	172	117	110	143	175	175	357	575	815	246	160	230	239	0	4464
(1)	4.55	8.53	8.20	3.85	2.62	2.46	3.20	3.92	3.92	8.00	12.88	18.26	5.51	3.58	5.15	5.35	.00	100.00
(2)	4.55	8.53	8.20	3.85	2.62	2.46	3.20	3.92	3.92	8.00	12.88	18.26	5.51	3.58	5.15	5.35	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.3-64 {Input Used to Determine JFD's}

Parameter	Value(s)
Anemometer starting speed	0.5 miles per hour
Temperature sensor separation	60m - 10m or 50 meters
Wind instrument heights	33’ (10 m), 197’ (60 m)
Meteorological channel units of measure	Wind speed miles per hour, Wind direction degrees from True North, Delta-Temperature degrees Fahrenheit per sensor separation in feet
Order of data channels in meteorological data	Wind speed (10m, 60m), wind direction (10m, 60m), temperature, dew point temperature, delta temperature (60m-10m), precipitation

Table 2.3-65 {Monthly Mean Wind Speed and Prevailing Wind Direction (tens of degrees) for Sites Around Bell Bend Nuclear Power Plant}

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wilkes-Barre/Scranton, PA	mph	8.1	8.3	8.7	8.4	7.6	6.8	6.5	6.2	6.6	7.0	7.7	7.8	7.5
	deg	240	250	330	350	230	240	250	110	230	240	240	240	240
Allentown, PA	mph	8.8	9.1	9.6	9.1	8.2	7.4	6.7	6.2	6.6	7.1	7.9	8.3	7.9
	deg	280	280	300	330	240	250	240	240	240	250	250	270	280
Williamsport, PA	mph	8.1	8.1	8.3	8.1	7.0	6.3	5.8	5.3	5.6	6.0	7.2	7.4	6.9
	deg	280	280	280	280	280	280	280	280	280	280	280	280	280

Table 2.3-66 {Monthly Maximum Two-Minute Wind Speed and Direction (tens of degrees) for Sites Around Bell Bend Nuclear Power Plant}

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wilkes-Barre/Scranton, PA	mph	36	38	39	34	45	36	39	46	45	36	40	43	46
	deg	230	260	280	260	310	290	360	250	320	280	270	260	250
Allentown, PA	mph	43	38	46	40	53	33	38	32	35	35	39	39	53
	deg	190	290	80	270	250	340	250	300	70	270	270	200	250
Williamsport, PA	mph	43	45	43	39	47	45	33	37	44	40	43	39	47
	deg	240	260	240	260	250	250	220	360	250	260	250	260	250

Table 2.3-67 {Monthly Maximum Five-Second Wind Speed and Direction (tens of degrees) for Sites Around Bell Bend Nuclear Power Plant}

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wilkes-Barre/Scranton, PA	mph	49	47	53	45	55	45	47	55	51	48	52	55	55
	deg	130	270	250	250	310	310	10	230	350	280	260	200	200
Allentown, PA	mph	53	53	56	53	68	46	47	40	47	48	51	51	68
	deg	160	340	80	260	250	300	250	290	160	290	300	200	250
Williamsport, PA	mph	49	59	55	51	67	59	60	58	52	54	56	53	67
	deg	270	260	250	310	250	260	280	270	110	280	260	290	250

Table 2.3-68 {SSES 33' (10-m) Wind Direction Persistence Summary for 2001}

(Page 1 of 2)

SSES JAN01-DEC01 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

DIRECTION PERSISTENCE (HOURS)

DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	149	48	19	14	10	1	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	246
	61	80	88	93	98	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNE	198	58	25	7	11	6	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	306
	65	84	92	94	98	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NE	333	93	23	7	3	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	462
	72	92	97	99	99	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENE	385	125	52	34	18	22	8	4	8	3	3	2	4	1	1	0	0	0	0	0	0	0	0	0	0	670
	57	76	84	89	92	95	96	97	98	98	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	
E	394	96	28	13	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	535
	74	92	97	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	274	43	8	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	330
	83	96	98	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	253	39	12	8	3	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	319
	79	92	95	98	99	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	216	32	17	9	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	281
	77	88	94	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S	245	76	21	12	5	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	365
	67	88	94	97	98	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.3-68 {SSES 33' (10-m) Wind Direction Persistence Summary for 2001}

(Page 2 of 2)

SSES JAN01-DEC01 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	DIRECTION PERSISTENCE (HOURS)																								
DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	249	70	40	12	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	377
	66	85	95	98	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SW	233	92	52	32	12	7	2	5	0	1	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	440
	53	74	86	93	96	97	98	99	99	99	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	
WSW	159	55	21	7	7	5	3	2	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	263
	60	81	89	92	95	97	98	98	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
W	99	27	8	3	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	142
	70	89	94	96	97	98	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	92	18	6	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118
	78	93	98	98	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NW	101	38	11	10	3	6	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
	59	81	87	93	95	98	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNW	114	31	18	9	6	3	4	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	187
	61	78	87	92	95	97	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	3494	941	361	180	92	63	26	15	14	9	6	4	5	1	1	1	0	0	0	0	0	0	0	0	0	5213

Table 2.3-69 {SSES 33' (10-m) Wind Direction Persistence Summary for 2002}

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SSES JAN02-DEC02 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	DIRECTION PERSISTENCE (HOURS)																									
DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	136	33	23	13	10	4	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	223
	61	76	86	92	96	98	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNE	193	78	31	14	5	4	3	0	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	333
	58	81	91	95	96	98	98	98	99	99	99	99	100	100	100	100	100	100	100	100	100	100	100	100	100	
NE	366	78	28	13	6	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	494
	74	90	96	98	99	99	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENE	310	98	45	22	12	13	7	9	6	9	4	3	1	2	0	0	0	0	0	0	0	0	0	0	0	541
	57	75	84	88	90	92	94	95	96	98	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	
E	348	75	20	4	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	449
	78	94	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	271	36	9	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	320
	85	96	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	251	27	9	5	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	295
	85	94	97	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	206	52	13	8	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	282
	73	91	96	99	99	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S	259	58	27	15	4	5	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	371
	70	85	93	97	98	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.3-69 {SSES 33' (10-m) Wind Direction Persistence Summary for 2002}
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SSES JAN02-DEC02 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	DIRECTION PERSISTENCE (HOURS)																								
DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	304	74	30	11	10	3	4	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	441
	69	86	93	95	97	98	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SW	236	96	65	27	16	14	12	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	468
	50	71	85	91	94	97	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
WSW	193	65	16	10	6	5	7	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	305
	63	85	90	93	95	97	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
W	117	32	11	7	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
	68	87	93	97	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	85	26	4	1	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120
	71	93	96	97	98	98	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NW	95	22	10	6	3	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	143
	66	82	89	93	95	97	97	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNW	88	34	14	6	8	3	3	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
	55	76	84	88	93	95	97	98	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	3458	884	355	163	88	58	44	22	15	14	6	5	3	2	0	0	0	0	0	0	0	0	0	0	1	5118

Table 2.3-70 {SSES 33' (10-m) Wind Direction Persistence Summary for 2003}
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SSES JAN03-DEC03 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

DIRECTION PERSISTENCE (HOURS)

DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	114	33	18	8	5	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	186
	61	79	89	93	96	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNE	226	85	32	13	10	1	4	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	376
	60	83	91	95	97	98	99	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	
NE	366	110	42	17	15	5	6	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	565
	65	84	92	95	97	98	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENE	324	95	44	33	15	16	10	4	3	5	4	4	1	0	0	0	0	0	0	0	0	0	0	0	0	558
	58	75	83	89	92	94	96	97	97	98	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
E	372	68	19	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	464
	80	95	99	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	261	51	10	6	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	332
	79	94	97	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	286	44	28	8	7	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	375
	76	88	95	98	99	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	
SSE	239	36	15	8	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	302
	79	91	96	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S	258	70	20	5	1	3	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	361
	71	91	96	98	98	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.3-70 {SSES 33' (10-m) Wind Direction Persistence Summary for 2003}

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SSES JAN03-DEC03 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	DIRECTION PERSISTENCE (HOURS)																								
DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	263	85	34	13	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	396
	66	88	96	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SW	202	96	28	24	13	8	12	2	0	3	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	392
	52	76	83	89	93	95	98	98	98	99	99	100	100	100	100	100	100	100	100	100	0	0	0	0	0	
WSW	161	59	34	9	12	1	3	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	283
	57	78	90	93	97	98	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
W	109	28	12	3	6	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	160
	68	86	93	95	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	80	33	4	4	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123
	65	92	95	98	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NW	81	33	15	3	0	1	2	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	137
	59	83	94	96	96	97	99	99	99	99	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	
NNW	66	28	10	10	3	1	2	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	128
	52	73	81	89	91	92	94	96	98	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	3408	954	365	168	94	43	47	21	6	13	7	7	1	0	2	1	0	0	0	1	0	0	0	0	0	5138

Table 2.3-71 {SSES 33' (10-m) Wind Direction Persistence Summary for 2004}

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SSES JAN04-DEC04 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	DIRECTION PERSISTENCE (HOURS)																									
DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	154	44	20	15	5	0	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	243
	63	81	90	96	98	98	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNE	257	75	46	23	13	5	7	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	429
	60	77	88	93	97	98	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NE	416	126	42	14	12	6	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	620
	67	87	94	96	98	99	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	
ENE	320	104	42	23	24	18	10	6	0	5	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	555
	58	76	84	88	92	96	97	99	99	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	
E	355	65	16	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	444
	80	95	98	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	251	37	6	4	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	302
	83	95	97	99	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	232	42	12	5	4	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	301
	77	91	95	97	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	209	38	10	5	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	268
	78	92	96	98	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S	233	57	23	9	4	6	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	335
	70	87	93	96	97	99	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.3-71 {SSES 33' (10-m) Wind Direction Persistence Summary for 2004}

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SSES JAN04-DEC04 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

DIRECTION PERSISTENCE (HOURS)

DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	277	81	13	12	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	388
	71	92	96	99	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SW	213	93	40	31	14	9	10	5	5	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	423
	50	72	82	89	92	95	97	98	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
WSW	174	37	22	10	4	2	2	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	254
	69	83	92	96	97	98	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
W	100	19	8	0	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	131
	76	91	97	97	98	98	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	77	17	8	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106
	73	89	96	96	96	96	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NW	92	24	14	8	2	2	1	2	4	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	153
	60	76	85	90	92	93	93	95	97	97	97	99	100	0	0	0	0	0	0	0	0	0	0	0	0	
NNW	92	32	23	9	8	1	2	2	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	172
	53	72	85	91	95	96	97	98	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	3452	891	345	176	103	54	42	20	17	9	2	4	6	2	1	0	0	0	0	0	0	0	0	0	0	5124

Table 2.3-72 {SSES 33' (10-m) Wind Direction Persistence Summary for 2005}

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SSES JAN05-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	DIRECTION PERSISTENCE (HOURS)																								
DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	161	49	21	20	9	5	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	274
	59	77	84	92	95	97	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNE	243	71	23	13	10	4	5	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	374
	65	84	90	94	96	97	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NE	388	100	30	16	6	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	546
	71	89	95	98	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENE	313	124	47	33	24	11	12	10	3	2	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	587
	53	74	82	88	92	94	96	98	98	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
E	380	74	20	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	480
	79	95	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	240	38	9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	291
	82	96	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	243	41	19	6	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	314
	77	90	96	98	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	220	27	8	6	4	0	2	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	270
	81	91	94	97	98	98	99	99	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
S	241	48	17	13	5	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	328
	73	88	93	97	99	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.3-72 {SSES 33' (10-m) Wind Direction Persistence Summary for 2005}

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SSES JAN05-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	DIRECTION PERSISTENCE (HOURS)																								
DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	240	93	31	12	8	3	2	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	392
	61	85	93	96	98	99	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SW	230	71	44	33	8	7	5	3	1	1	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	406
	57	74	85	93	95	97	98	99	99	99	99	100	100	100	100	100	0	0	0	0	0	0	0	0	0	
WSW	156	51	13	17	4	4	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	247
	63	84	89	96	98	99	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
W	104	37	15	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	162
	64	87	96	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	86	24	11	5	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129
	67	85	94	98	98	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NW	90	25	9	10	5	5	1	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	149
	60	77	83	90	93	97	97	97	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNW	109	33	9	15	7	3	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180
	61	79	84	92	96	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	3444	906	326	211	95	50	39	23	9	10	8	5	2	0	0	1	0	0	0	0	0	0	0	0	0	5129

Table 2.3-73 {SSES 33' (10-m) Wind Direction Persistence Summary for 2006}

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SSES JAN06-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	DIRECTION PERSISTENCE (HOURS)																									
DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	146	53	28	12	7	4	0	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	254
	57	78	89	94	97	98	98	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNE	221	76	31	18	6	4	3	2	1	1	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	366
	60	81	90	95	96	97	98	99	99	99	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	
NE	379	93	36	17	8	3	2	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	541
	70	87	94	97	99	99	99	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	
ENE	333	103	41	24	18	11	10	10	4	5	2	0	1	1	1	0	0	0	0	0	0	0	0	0	0	564
	59	77	85	89	92	94	96	98	98	99	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	
E	354	58	14	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	430
	82	96	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	240	41	13	5	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	301
	80	93	98	99	99	99	99	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	220	35	13	6	4	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	281
	78	91	95	98	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	200	44	14	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	263
	76	93	98	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S	250	65	14	10	3	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	349
	72	90	94	97	98	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.3-73 {SSES 33' (10-m) Wind Direction Persistence Summary for 2006}

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SSES JAN06-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	DIRECTION PERSISTENCE (HOURS)																								
DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	278	78	29	10	4	6	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	407
	68	87	95	97	98	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SW	204	71	44	35	13	11	9	7	2	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	399
	51	69	80	89	92	95	97	99	99	99	99	99	99	99	100	100	0	0	0	0	0	0	0	0	0	
WSW	154	41	26	8	7	3	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	241
	64	81	92	95	98	99	99	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
W	126	30	8	5	2	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	174
	72	90	94	97	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	101	25	9	8	6	2	1	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	156
	65	81	87	92	96	97	97	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NW	121	31	15	7	2	5	1	3	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	189
	64	80	88	92	93	96	96	98	98	98	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	
NNW	103	32	23	11	8	0	4	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	184
	56	73	86	92	96	96	98	98	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	3430	876	358	181	91	57	35	29	13	7	7	3	3	3	4	2	0	0	0	0	0	0	0	0	0	5099

Table 2.3-74 {SSES 33' (10-m) Average Wind Direction Persistence Summary for Years 2001-2006}

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WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	172	52	25.8	16.4	9.2	3.8	2.8	1.8	0.4	0.6	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	285.2
	72.4	94.2	105.2	112	116	117.4	118.6	119.4	59.6	60	40	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	267.6	88.6	37.6	17.6	11	4.8	4.4	2.2	0.6	1.2	0.4	0	0.2	0	0.2	0.2	0	0	0	0	0	0	0	0	0.2	436.8
	73.6	98	108.4	113.2	116	117.6	118.6	119.2	119.4	119.6	59.8	59.8	60	60	60	40	20	20	20	20	20	20	20	20	20	0
NE	449.6	120	40.2	16.8	10	3.4	2.4	1.2	0.6	0.4	0	0.4	0	0.4	0.2	0	0	0	0	0	0	0	0	0	0	645.6
	83.8	105.8	113.6	116.6	118.2	118.6	119.6	120	120	100	60	60	40	40	20	0	0	0	0	0	0	0	0	0	0	0
ENE	397	129.8	54.2	33.8	22.2	18.2	11.4	8.6	4.8	5.8	3.6	2.2	2	1	0.4	0	0	0	0	0	0	0	0	0	0	695
	68.4	90.6	100.4	106.2	110	113	115	116.8	117.2	118.2	118.8	119.2	120	80	40	0	0	0	0	0	0	0	0	0	0	0
E	440.6	87.2	23.4	7.2	1	0.6	0.2	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	560.4
	94.6	113.4	118.2	119.8	100	80	40	20	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	307.4	49.2	11	4.6	1.6	0.2	0.6	0.2	0.2	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	375.2
	98.4	114	117.6	119	99.6	99.6	79.8	40	40	20	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	297	45.6	18.6	7.6	4.2	1.8	1.2	0	0.6	0.2	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	377
	94.4	109.2	114.6	117.6	118.6	119.2	119.6	59.6	60	40	20	20	20	20	20	0	0	0	0	0	0	0	0	0	0	0
SSE	258	45.8	15.4	7.6	3.8	1	0.8	0	0	0.4	0.2	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	333.2
	92.8	109.2	114.8	118	119.2	119.6	79.8	39.8	39.8	39.8	20	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0
S	297.2	74.8	24.4	12.8	4.4	5.2	1.2	0.6	0.4	0.6	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	421.8
	84.6	105.8	112.6	116.4	117.6	119.2	119.4	99.8	100	80	20	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	322.2	96.2	35.4	14	5.8	2.6	1.8	1	0.8	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	480.2
	80.2	104.6	113.6	117	118.4	119.2	119.6	79.8	79.8	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SW	263.6	103.8	54.6	36.4	15.2	11.2	10	4.6	1.6	1	0.8	1.2	0.6	0	0.2	0.6	0	0	0	0.2	0	0	0	0	0	505.6

Table 2.3-74 {SSES 33' (10-m) Average Wind Direction Persistence Summary for Years 2001-2006}

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WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
	62.6	87.2	100.2	108.8	112.4	115.2	117.6	118.6	118.8	119	119.4	119.8	119.8	79.8	80	80	20	20	20	20	0	0	0	0	0	0
WSW	199.4	61.6	26.4	12.2	8	4	3.2	1.4	1.2	0.4	0.2	0.2	0.4	0	0	0	0	0	0	0	0	0	0	0	0	318.6
	75.2	98.4	108.4	113	116	117.6	118.8	119.2	120	120	80	60	40	0	0	0	0	0	0	0	0	0	0	0	0	0
W	131	34.6	12.4	4.4	2.8	1	1	0.2	0.6	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	188.2
	83.6	106	113.4	116.2	117.8	118.6	99.2	79.2	79.8	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	104.2	28.6	8.4	3.6	2.4	0.6	1	1	0.4	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150.4
	83.8	106.6	113.2	115.8	117.4	97.8	98.6	79.6	39.8	19.8	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	116	34.6	14.8	8.8	3	4.4	1.2	2	1.4	0.2	0.6	0.8	0.2	0	0.4	0.2	0	0	0	0	0	0	0	0	0	188.6
	73.6	95.8	105.2	110.8	112.8	115.6	116.2	117.6	98.4	98.4	98.8	59.4	59.6	39.6	39.8	20	0	0	0	0	0	0	0	0	0	0
NNW	114.4	38	19.4	12	8	2.2	3.4	1.2	1.2	1	0.8	0.4	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	202.4
	67.6	90.2	101.4	108.8	113.2	114.8	116.8	117.6	118.4	118.8	99.2	79.6	39.8	20	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4137.2	1090.4	422	215.8	112.6	65	46.6	26	14.8	12.4	7.2	5.6	4	1.6	1.6	1	0	0	0	0.2	0	0	0	0	0.2	6164.2

Table 2.3-75 {SSES 60m Wind Direction Persistence Summary for 2001}

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SSES JAN01-DEC01 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

DIRECTION PERSISTENCE (HOURS)

DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	165	67	32	17	8	8	3	3	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	306
	54	76	86	92	94	97	98	99	99	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	
NNE	271	104	48	35	33	13	6	10	8	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	532
	51	70	80	86	92	95	96	98	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
NE	303	116	43	13	6	4	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	489
	62	86	94	97	98	99	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENE	245	35	14	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	298
	82	94	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
E	174	35	7	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	223
	78	94	97	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	183	27	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	220
	83	95	98	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	175	42	11	4	3	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	238
	74	91	96	97	99	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	192	29	16	10	4	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	256
	75	86	93	96	98	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S	233	59	21	7	7	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	333
	70	88	94	96	98	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.3-75 {SSES 60m Wind Direction Persistence Summary for 2001}
(Page 2 of 3)

SSES JAN01-DEC01 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	DIRECTION PERSISTENCE (HOURS)																									
DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	251	79	24	18	5	8	2	1	3	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	395
	64	84	90	94	95	97	98	98	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
SW	266	103	54	29	16	8	2	3	4	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	488
	55	76	87	93	96	98	98	99	99	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	
WSW	191	66	26	23	16	10	4	3	3	1	0	1	0	1	0	1	0	0	0	1	0	1	0	0	2	350
	55	73	81	87	92	95	96	97	98	98	98	98	98	99	99	99	99	99	99	99	99	99	99	99	100	
W	116	36	9	8	3	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	176
	66	86	91	96	98	98	98	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	94	27	8	8	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	141
	67	86	91	97	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NW	85	44	19	5	6	4	2	0	0	0	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	169
	50	76	88	91	94	96	98	98	98	98	98	98	99	99	99	100	0	0	0	0	0	0	0	0	0	
NNW	95	28	18	9	5	4	5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	165
	58	75	85	91	94	96	99	99	99	99	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	
TOTAL	3039	897	355	197	118	68	31	24	20	8	6	2	3	2	1	4	0	0	0	1	0	1	0	0	2	4779

Table 2.3-75 {SSES 60m Wind Direction Persistence Summary for 2001}

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SSES JAN01-DEC01 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA

WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

DIRECTION PERSISTENCE (HOURS)

DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL

PERSISTENCE GREATER THAN 24 HOURS

DIRECTION	HOURS	NUMBER	DIRECTION	HOURS	NUMBER
WSW	25	0	WSW	31	0
WSW	26	0	WSW	32	0
WSW	27	0	WSW	33	1
WSW	28	0	WSW	34	0
WSW	29	0	WSW	35	0
WSW	30	0	WSW	36	1

Table 2.3-76 {SSES 60m Wind Direction Persistence Summary for 2002}

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SSES JAN02-DEC02 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA

WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	DIRECTION PERSISTENCE (HOURS)																								
DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	153	39	25	17	15	4	5	3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	263
	58	73	83	89	95	96	98	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNE	244	94	54	29	15	14	11	5	5	1	3	3	1	0	2	0	0	0	0	0	0	0	0	0	1	482
	51	70	81	87	90	93	96	97	98	98	99	99	99	99	100	100	100	100	100	100	100	100	100	100	100	
NE	284	103	38	15	15	4	3	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	465
	61	83	91	95	98	99	99	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENE	208	43	8	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	262
	79	96	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
E	151	29	10	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	194
	78	93	98	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	149	26	8	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	186
	80	94	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	149	34	9	4	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200
	75	92	96	98	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	142	43	13	6	4	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
	68	88	94	97	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S	229	58	31	10	7	4	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	341
	67	84	93	96	98	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.3-76 {SSES 60m Wind Direction Persistence Summary for 2002}

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SSES JAN02-DEC02 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

DIRECTION PERSISTENCE (HOURS)

DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	273	69	32	18	6	6	2	3	1	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	414
	66	83	90	95	96	98	98	99	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
SW	286	125	52	32	21	13	3	5	2	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	542
	53	76	85	91	95	98	98	99	99	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	
WSW	210	95	59	26	16	16	7	5	1	2	2	2	1	0	0	1	0	0	0	0	0	0	0	0	1	444
	47	69	82	88	91	95	97	98	98	98	99	99	100	100	100	100	100	100	100	100	100	100	100	100	100	
W	118	39	15	12	4	1	4	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	197
	60	80	87	93	95	96	98	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	96	29	7	3	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	137
	70	91	96	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NW	84	24	14	12	3	3	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	145
	58	74	84	92	94	97	98	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNW	88	46	10	11	7	0	5	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	170
	52	79	85	91	95	95	98	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	2864	896	385	199	119	67	46	28	12	9	8	8	5	1	2	1	0	0	0	0	0	0	0	0	2	4652

Table 2.3-76 {SSES 60m Wind Direction Persistence Summary for 2002}

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SSES JAN02-DEC02 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

DIRECTION PERSISTENCE (HOURS)

DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL

PERSISTENCE GREATER THAN 24 HOURS

DIRECTION	HOURS	NUMBER	DIRECTION	HOURS	NUMBER
NNE	25	0	WSW	25	0
NNE	26	1	WSW	26	0
			WSW	27	0
			WSW	28	1

Table 2.3-77 {SSES 60m Wind Direction Persistence Summary for 2003}

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SSES JAN03-DEC03 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	DIRECTION PERSISTENCE (HOURS)																									
DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	113	59	18	15	6	6	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	221
	51	78	86	93	95	98	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNE	222	106	60	34	27	18	13	7	4	5	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	499
	44	66	78	85	90	94	96	98	98	99	99	100	100	100	100	100	100	0	0	0	0	0	0	0	0	
NE	289	117	49	27	13	4	5	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	508
	57	80	90	95	97	98	99	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	
ENE	199	42	12	12	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	272
	73	89	93	97	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
E	193	34	7	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	239
	81	95	98	98	99	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	156	39	9	1	5	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	212
	74	92	96	97	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	212	41	9	7	4	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	275
	77	92	95	98	99	99	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	
SSE	207	41	10	7	4	1	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	274
	76	91	94	97	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S	237	45	17	15	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	319
	74	88	94	98	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.3-77 {SSES 60m Wind Direction Persistence Summary for 2003}

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SSES JAN03-DEC03 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

DIRECTION PERSISTENCE (HOURS)

DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	249	83	24	15	6	3	4	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	386
	65	86	92	96	98	98	99	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
SW	244	127	49	32	19	9	6	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	490
	50	76	86	92	96	98	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WSW	184	70	50	26	19	8	6	1	3	3	1	0	2	0	1	1	0	0	1	1	0	1	0	0	2	380
	48	67	80	87	92	94	96	96	97	97	98	98	98	98	98	99	99	99	99	99	99	99	99	99	100	
W	111	35	17	11	8	1	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	186
	60	78	88	94	98	98	98	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	97	21	15	6	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	141
	69	84	94	99	99	99	99	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	
NW	76	26	8	8	5	4	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	130
	58	78	85	91	95	98	98	99	99	99	99	99	99	99	99	99	99	100	0	0	0	0	0	0	0	
NNW	66	23	13	5	7	2	0	4	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	123
	54	72	83	87	93	94	94	98	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	2855	909	367	222	131	61	42	21	12	14	3	3	4	0	3	1	1	1	1	1	0	1	0	0	2	4655

Table 2.3-77 {SSES 60m Wind Direction Persistence Summary for 2003}

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SSES JAN03-DEC03 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

DIRECTION	DIRECTION PERSISTENCE (HOURS)																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL

PERSISTENCE GREATER THAN 24 HOURS

DIRECTION	HOURS	NUMBER	DIRECTION	HOURS	NUMBER
WSW	25	0	WSW	30	0
WSW	26	0	WSW	31	0
WSW	27	0	WSW	32	0
WSW	28	1	WSW	33	1
WSW	29	0			

Table 2.3-78 {SSES 60m Wind Direction Persistence Summary for 2004}

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SSES JAN04-DEC04 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA

WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

DIRECTION PERSISTENCE (HOURS)

DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	190	48	26	20	5	6	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	301
	63	79	88	94	96	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNE	259	118	66	43	30	21	6	4	5	2	2	4	1	0	0	0	0	0	0	0	0	0	1	0	0	562
	46	67	79	86	92	96	97	97	98	99	99	100	100	100	100	100	100	100	100	100	100	100	100	0	0	
NE	315	128	42	22	10	9	3	4	2	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	538
	59	82	90	94	96	98	98	99	99	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	
ENE	249	31	10	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	294
	85	95	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
E	180	34	12	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	229
	79	93	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	158	25	2	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	190
	83	96	97	98	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	163	26	9	5	5	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	212
	77	89	93	96	98	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	178	35	9	5	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	231
	77	92	96	98	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S	216	40	17	10	6	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	292
	74	88	93	97	99	99	99	99	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.3-78 {SSES 60m Wind Direction Persistence Summary for 2004}

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SSES JAN04-DEC04 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

DIRECTION PERSISTENCE (HOURS)

DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	260	65	28	11	4	5	4	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	381
	68	85	93	96	97	98	99	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
SW	305	107	47	21	17	12	4	5	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	522
	58	79	88	92	95	98	98	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
WSW	186	69	36	18	15	9	8	2	3	6	2	2	1	1	2	0	0	0	0	0	0	0	0	0	1	361
	52	71	81	86	90	92	94	95	96	98	98	99	99	99	100	100	100	100	100	100	100	100	100	100	100	
W	115	21	11	7	3	1	1	3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	164
	70	83	90	94	96	96	97	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	84	23	7	5	3	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125
	67	86	91	95	98	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NW	75	27	17	5	8	2	3	2	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	144
	52	71	83	86	92	93	95	97	98	98	99	99	99	99	99	99	99	99	99	99	99	99	99	100	0	
NNW	83	32	14	6	7	2	3	0	2	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	153
	54	75	84	88	93	94	96	96	97	99	99	99	99	99	99	99	99	99	99	99	99	100	0	0	0	
TOTAL	3016	829	353	183	118	72	39	24	18	17	9	9	3	2	2	0	0	0	0	0	1	1	1	1	1	4699

PERSISTENCE GREATER THAN 24 HOURS

DIRECTION	HOURS	NUMBER
WSW	25	0
WSW	26	1

Table 2.3-79 {SSES 60m Wind Direction Persistence Summary for 2005}

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SSES JAN05-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY
DIRECTION PERSISTENCE (HOURS)

DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	137	57	28	15	9	7	5	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	263
	52	74	84	90	94	96	98	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNE	234	93	55	21	13	17	11	9	2	6	3	2	1	2	0	1	0	0	0	1	0	0	0	0	1	472
	50	69	81	85	88	92	94	96	96	98	98	99	99	99	99	100	100	100	100	100	100	100	100	100	100	
NE	267	88	24	14	6	5	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	411
	65	86	92	96	97	98	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENE	180	39	6	4	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	232
	78	94	97	99	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
E	147	26	3	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	181
	81	96	97	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	141	26	9	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179
	79	93	98	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	129	30	8	12	5	2	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	189
	68	84	88	95	97	98	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	128	23	24	7	0	3	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	187
	68	81	94	97	97	99	99	99	99	99	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	
S	164	37	15	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	222
	74	91	97	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.3-79 {SSES 60m Wind Direction Persistence Summary for 2005}
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SSES JAN05-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY
DIRECTION PERSISTENCE (HOURS)

DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	181	60	23	7	5	3	4	0	2	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	287
	63	84	92	94	96	97	99	99	99	99	99	99	100	100	100	100	100	0	0	0	0	0	0	0	0	
SW	182	76	37	14	6	6	5	2	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	331
	55	78	89	93	95	97	98	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
WSW	142	62	26	18	15	4	5	2	2	2	1	0	2	0	2	0	1	1	0	1	0	0	0	0	0	286
	50	71	80	87	92	93	95	96	97	97	98	98	98	98	99	99	99	100	100	100	0	0	0	0	0	
W	104	45	11	8	6	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179
	58	83	89	94	97	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	77	30	7	5	2	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125
	62	86	91	95	97	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NW	94	26	12	5	2	4	3	2	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	152
	62	79	87	90	91	94	96	97	97	98	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	
NNW	77	31	10	6	6	1	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	138
	56	78	86	90	94	95	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	2384	749	298	142	79	61	43	28	9	12	6	6	5	2	2	2	2	1	0	2	0	0	0	0	1	3834

PERSISTENCE GREATER THAN 24 HOURS

DIRECTION	HOURS	NUMBER
WSW	25	0
WSW	26	0
WSW	27	1

Table 2.3-80 {SSES 60m Wind Direction Persistence Summary for 2006}

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SSES JAN06-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	DIRECTION PERSISTENCE (HOURS)																									
DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	188	69	25	18	10	9	5	1	3	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	330
	57	78	85	91	94	97	98	98	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
NNE	265	95	67	36	21	14	13	6	5	3	1	2	0	0	3	0	0	0	0	0	0	0	0	0	0	531
	50	68	80	87	91	94	96	97	98	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	
NE	295	102	42	15	11	4	4	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	477
	62	83	92	95	97	98	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENE	209	37	8	3	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	259
	81	95	98	99	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
E	157	30	12	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	204
	77	92	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	137	28	6	3	1	0	0	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	179
	77	92	96	97	98	98	98	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	150	28	12	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200
	75	89	95	98	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	163	31	7	5	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	208
	78	93	97	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S	182	52	12	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	254
	72	92	97	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.3-80 {SSES 60m Wind Direction Persistence Summary for 2006}

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SSES JAN06-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	DIRECTION PERSISTENCE (HOURS)																									
DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	251	61	27	12	11	2	1	0	0	1	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	370
	68	84	92	95	98	98	99	99	99	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	
SW	263	107	69	27	17	10	2	6	1	0	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	506
	52	73	87	92	95	97	98	99	99	99	99	100	100	100	100	100	100	100	100	0	0	0	0	0	0	
WSW	227	84	40	24	16	14	5	4	4	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	423
	54	74	83	89	92	96	97	98	99	99	99	99	99	100	100	100	100	100	100	100	100	100	100	100	100	
W	133	39	17	6	7	3	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
	63	82	90	93	96	98	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	97	38	15	10	5	1	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	170
	57	79	88	94	97	98	99	99	99	99	99	99	99	99	99	99	99	99	99	100	0	0	0	0	0	
NW	94	36	22	10	3	5	1	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	176
	53	74	86	92	94	97	97	98	99	99	99	99	99	99	99	99	99	99	99	99	99	99	100	0	0	
NNW	105	36	15	13	6	1	1	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	181
	58	78	86	93	97	97	98	98	98	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	2916	873	396	197	115	65	38	27	16	10	4	5	3	4	4	0	0	0	1	1	0	0	1	0	2	4678

Table 2.3-80 {SSES 60m Wind Direction Persistence Summary for 2006}

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SSES JAN06-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	DIRECTION PERSISTENCE (HOURS)																								
DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL

PERSISTENCE GREATER THAN 24 HOURS

DIRECTION	HOURS	NUMBER
WSW	25	1
	26	0
	27	0
	28	0
	29	0
	30	0
	31	0
	32	0
	33	0
	34	0
	35	0
	36	0
	37	0
	38	0
	39	0
	40	0
	41	0
	42	0
	43	0
	44	0
	45	0
	46	0
	47	1

Table 2.3-81 {SSES 197' (60-m) Average Wind Direction Persistence Summary for Years 2001-2006}

(Page 1 of 2)

WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	189.2	67.8	30.8	20.4	10.6	8	4.4	2.6	0.6	1.6	0.2	0	0.4	0.2	0	0	0	0	0	0	0	0	0	0	0	336.8
	67	91.6	102.4	109.8	113.6	116.4	118	119	119.2	119.8	59.8	39.8	40	20	0	0	0	0	0	0	0	0	0	0	0	0
NNE	299	122	70	39.6	27.8	19.4	12	8.2	5.8	3.4	2.4	2.6	0.8	0.4	1	0.2	0.2	0	0	0.2	0	0	0.2	0	0.4	615.6
	58.4	82	95.8	103.2	108.6	112.8	115	116.6	117.4	118.4	118.8	119.4	119.4	99.4	99.8	80	80	60	60	60	60	60	60	40	40	0
NE	350.6	130.8	47.6	21.2	12.2	6	4.2	2.8	0.6	0.4	0.4	0.2	0	0.2	0.2	0	0	0	0	0	0.2	0	0	0	0	577.6
	73.2	100	109.8	114.4	116.6	118	118.8	119.8	119.8	120	100	60	40	40	40	20	20	20	20	20	20	0	0	0	0	0
ENE	258	45.4	11.6	4.8	1.6	1.2	0.4	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	323.4
	95.6	112.6	117	118.4	119.6	120	80	40	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E	200.4	37.6	10.2	3.4	1.6	0.4	0	0	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	254
	94.8	112.6	117.4	119	119.6	39.8	19.8	19.8	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	184.8	34.2	7.8	2	1.8	0.6	0.6	0.8	0.4	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	233.2
	95.2	112.4	116.6	117.8	118.6	118.8	99.2	79.6	39.8	19.8	19.8	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	195.6	40.2	11.6	7.4	4.4	1.4	1	0	0.4	0	0.2	0.4	0	0	0.2	0	0	0	0	0	0	0	0	0	0	262.8
	89.2	107.4	112.6	116.4	118.2	119.2	119.8	99.8	99.8	59.8	59.8	40	20	20	20	0	0	0	0	0	0	0	0	0	0	0
SSE	202	40.4	15.8	8	2.8	1.4	1.4	0.6	0.6	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	273.2
	88.4	106.2	113.6	116.8	118	119	119.6	79.6	59.8	19.8	19.8	19.8	19.8	19.8	19.8	20	0	0	0	0	0	0	0	0	0	0
S	252.2	58.2	22.6	10.2	5	1.8	0.8	0.6	0	0.4	0.2	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	352.2
	86.2	106.2	113.6	117	118.6	99.2	79.4	59.6	39.6	39.8	20	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	293	83.4	31.6	16.2	7.4	5.4	3.4	1.2	1.6	1	0.4	0.6	1	0.2	0	0	0.2	0	0	0	0	0	0	0	0	446.6
	78.8	101.2	109.8	114	116	117.2	118.4	118.6	119.2	119.4	119.6	119.6	60	40	20	20	20	0	0	0	0	0	0	0	0	0
SW	309.2	129	61.6	31	19.2	11.6	4.4	4.2	1.8	1.2	1	0.6	0.2	0.4	0	0.2	0	0	0.2	0	0	0	0	0	0	575.8
	64.6	91.6	104.4	110.6	114.4	117.2	117.8	118.8	118.8	119.6	119.8	100	60	60	40	40	20	20	20	0	0	0	0	0	0	0
WSW	228	89.2	47.4	27	19.4	12.2	7	3.4	3.2	3	1.2	1.2	1.2	0.6	1	0.6	0.2	0.2	0.2	0.6	0	0.4	0	0	1.6	448.8

Table 2.3-81 {SSES 197' (60-m) Average Wind Direction Persistence Summary for Years 2001-2006}

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WIND DIRECTION PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

DIRECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	189.2	67.8	30.8	20.4	10.6	8	4.4	2.6	0.6	1.6	0.2	0	0.4	0.2	0	0	0	0	0	0	0	0	0	0	0	336.8
	61.2	85	97.4	104.8	109.8	113	115	116	117	117.4	118	118.2	118.4	118.8	119.2	119.4	119.4	119.6	119.6	119.6	99.6	99.6	99.6	99.6	100	0
W	139.4	43	16	10.4	6.2	1.6	1.8	2.4	0.2	1	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	222.4
	75.4	98.4	107	112.8	116	116.8	117.8	119.2	99.2	99.6	39.8	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	109	33.6	11.8	7.4	3	1.4	0.4	0.4	0.2	0.2	0	0	0.2	0	0	0	0	0	0	0.2	0	0	0	0	0	167.8
	78.4	102.4	110.2	115.8	117.8	118.8	99	99.2	79.4	59.6	39.6	39.6	39.8	19.8	19.8	19.8	19.8	19.8	19.8	20	0	0	0	0	0	0
NW	101.6	36.6	18.4	9	5.4	4.4	2.4	2	0.6	0.2	0.6	0.4	0.4	0	0.4	0.2	0	0.2	0	0	0	0	0.2	0.2	0	183.2
	66.6	90.4	102.6	108.4	112	115	116.4	117.8	98.2	98.4	98.8	98.8	99.2	79.2	79.2	79.4	59.4	59.6	39.6	39.6	39.6	39.6	39.8	20	0	0
NNW	102.8	39.2	16	10	7.6	2	3.6	1.2	0.8	1.4	0.4	0.2	0.2	0.2	0	0.2	0	0	0	0	0	0.2	0	0	0	186
	66.4	91.4	101.8	108	113.2	114.2	116.6	117.6	118.2	99	99	99.2	79.4	59.6	39.6	39.8	19.8	19.8	19.8	19.8	19.8	20	0	0	0	0
TOTAL	3414.8	1030.6	430.8	228	136	78.8	47.8	30.4	17.4	14	7.2	6.6	4.6	2.2	2.8	1.6	0.6	0.4	0.4	1	0.2	0.6	0.4	0.2	2	5459.4

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2001	1	1	31.2	-0.4	18.9	-7.3	25.3	-3.7
2001	1	2	22.4	-5.3	11.9	-11.2	18.4	-7.6
2001	1	3	27.4	-2.6	16.2	-8.8	21.1	-6.1
2001	1	4	31.6	-0.2	19.5	-6.9	26.1	-3.3
2001	1	5	28.2	-2.1	15.1	-9.4	23.1	-5.0
2001	1	6	33.2	0.7	27.2	-2.7	29.7	-1.3
2001	1	7	38.7	3.7	23.3	-4.8	29.8	-1.3
2001	1	8	33.7	0.9	25.3	-3.7	29.1	-1.6
2001	1	9	31.5	-0.3	21.3	-5.9	25.2	-3.8
2001	1	10	31.3	-0.4	21.0	-6.1	26.0	-3.3
2001	1	11	41.5	5.3	26.0	-3.3	32.2	0.1
2001	1	12	37.7	3.2	16.3	-8.7	25.9	-3.4
2001	1	13	39.0	3.9	16.8	-8.4	25.7	-3.5
2001	1	14	37.2	2.9	18.4	-7.6	27.3	-2.6
2001	1	15	37.8	3.2	32.3	0.2	35.0	1.7
2001	1	16	39.5	4.2	33.7	0.9	36.3	2.4
2001	1	17	35.5	1.9	33.4	0.8	34.7	1.5
2001	1	18	34.8	1.6	30.7	-0.7	32.6	0.3
2001	1	19	35.1	1.7	32.2	0.1	33.7	0.9
2001	1	20	33.4	0.8	26.0	-3.3	30.9	-0.6
2001	1	21	28.3	-2.1	19.0	-7.2	22.5	-5.3
2001	1	22	30.2	-1.0	5.3	-14.8	18.2	-7.7
2001	1	23	31.4	-0.3	4.9	-15.1	17.3	-8.1
2001	1	24	36.7	2.6	16.4	-8.7	25.0	-3.9
2001	1	25	33.2	0.7	23.3	-4.8	29.8	-1.2
2001	1	26	29.5	-1.4	13.4	-10.3	22.2	-5.5
2001	1	27	35.3	1.8	25.8	-3.4	30.0	-1.1
2001	1	28	31.2	-0.4	24.7	-4.1	28.4	-2.0
2001	1	29	33.5	0.8	10.7	-11.8	23.6	-4.7
2001	1	30	39.9	4.4	29.7	-1.3	34.6	1.4
2001	1	31	41.2	5.1	32.7	0.4	36.8	2.7
2001	2	1	41.3	5.2	35.6	2.0	37.8	3.2
2001	2	2	41.2	5.1	24.7	-4.1	34.5	1.4
2001	2	3	27.9	-2.3	20.9	-6.2	23.8	-4.6
2001	2	4	37.2	2.9	16.3	-8.7	27.6	-2.5
2001	2	5	32.8	0.4	30.2	-1.0	31.9	0.0
2001	2	6	39.7	4.3	32.6	0.3	35.4	1.9
2001	2	7	40.3	4.6	31.4	-0.3	36.8	2.6
2001	2	8	40.0	4.4	23.6	-4.7	31.9	0.0
2001	2	9	53.6	12.0	34.6	1.4	41.3	5.2
2001	2	10	58.2	14.6	25.5	-3.6	42.4	5.8
2001	2	11	27.4	-2.6	20.0	-6.7	23.0	-5.0
2001	2	12	32.9	0.5	13.2	-10.4	23.1	-4.9
2001	2	13	47.0	8.3	30.4	-0.9	36.4	2.5
2001	2	14	43.4	6.3	28.9	-1.7	38.3	3.5

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2001	2	15	42.6	5.9	32.2	0.1	37.2	2.9
2001	2	16	35.7	2.1	29.2	-1.6	32.7	0.4
2001	2	17	35.7	2.1	19.7	-6.8	29.3	-1.5
2001	2	18	30.0	-1.1	16.0	-8.9	22.1	-5.5
2001	2	19	40.5	4.7	13.7	-10.2	28.6	-1.9
2001	2	20	52.9	11.6	30.5	-0.8	41.5	5.3
2001	2	21	46.3	7.9	20.2	-6.6	34.0	1.1
2001	2	22	19.7	-6.8	11.9	-11.2	16.3	-8.7
2001	2	23	36.0	2.2	17.1	-8.3	25.2	-3.8
2001	2	24	32.2	0.1	19.7	-6.8	26.9	-2.9
2001	2	25	47.7	8.7	30.3	-0.9	37.8	3.2
2001	2	26	47.1	8.4	34.6	1.4	40.5	4.7
2001	2	27	44.3	6.8	24.5	-4.2	34.9	1.6
2001	2	28	34.4	1.3	22.7	-5.2	29.1	-1.6
2001	3	1	34.5	1.4	19.2	-7.1	27.3	-2.6
2001	3	2	38.1	3.4	28.8	-1.8	32.8	0.5
2001	3	3	43.3	6.3	34.7	1.5	38.2	3.4
2001	3	4	33.7	0.9	29.6	-1.3	32.3	0.1
2001	3	5	30.8	-0.7	24.7	-4.1	27.7	-2.4
2001	3	6	33.5	0.8	18.6	-7.4	26.2	-3.2
2001	3	7	41.8	5.4	31.7	-0.2	35.9	2.2
2001	3	8	40.8	4.9	27.8	-2.3	34.0	1.1
2001	3	9	36.3	2.4	30.8	-0.7	33.6	0.9
2001	3	10	39.1	3.9	28.1	-2.2	32.7	0.4
2001	3	11	42.4	5.8	22.3	-5.4	33.2	0.7
2001	3	12	46.4	8.0	25.0	-3.9	36.0	2.2
2001	3	13	43.6	6.4	33.4	0.8	38.0	3.3
2001	3	14	44.4	6.9	32.7	0.4	40.1	4.5
2001	3	15	46.8	8.2	26.6	-3.0	36.4	2.4
2001	3	16	46.3	7.9	30.3	-0.9	38.7	3.7
2001	3	17	40.8	4.9	34.3	1.3	39.3	4.1
2001	3	18	41.1	5.1	31.2	-0.4	35.2	1.8
2001	3	19	47.4	8.6	29.8	-1.2	39.0	3.9
2001	3	20	51.6	10.9	25.8	-3.4	39.4	4.1
2001	3	21	44.1	6.7	37.2	2.9	40.6	4.8
2001	3	22	41.4	5.2	36.5	2.5	38.6	3.7
2001	3	23	52.3	11.3	35.2	1.8	44.4	6.9
2001	3	24	47.5	8.6	30.3	-0.9	39.5	4.2
2001	3	25	36.6	2.6	26.2	-3.2	30.4	-0.9
2001	3	26	30.4	-0.9	25.2	-3.8	27.5	-2.5
2001	3	27	35.4	1.9	19.0	-7.2	27.4	-2.6
2001	3	28	43.9	6.6	21.4	-5.9	32.2	0.1
2001	3	29	42.6	5.9	28.4	-2.0	36.0	2.2
2001	3	30	42.2	5.7	36.6	2.6	39.4	4.1
2001	3	31	41.7	5.4	33.7	0.9	38.2	3.4

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2001	4	1	42.7	5.9	35.2	1.8	38.4	3.6
2001	4	2	43.3	6.3	35.5	1.9	39.4	4.1
2001	4	3	49.1	9.5	26.6	-3.0	37.3	2.9
2001	4	4	53.8	12.1	29.0	-1.7	40.6	4.8
2001	4	5	59.6	15.3	27.6	-2.4	43.6	6.5
2001	4	6	48.2	9.0	38.7	3.7	43.9	6.6
2001	4	7	53.3	11.8	44.0	6.7	48.8	9.3
2001	4	8	56.9	13.8	40.0	4.4	46.7	8.2
2001	4	9	80.9	27.2	39.9	4.4	55.5	13.0
2001	4	10	60.7	15.9	44.9	7.2	52.4	11.4
2001	4	11	54.8	12.7	48.4	9.1	50.5	10.3
2001	4	12	65.2	18.4	49.2	9.6	55.3	13.0
2001	4	13	68.9	20.5	51.4	10.8	58.6	14.8
2001	4	14	65.1	18.4	42.7	5.9	54.0	12.2
2001	4	15	62.6	17.0	37.3	2.9	52.1	11.2
2001	4	16	48.7	9.3	42.0	5.6	46.0	7.8
2001	4	17	42.9	6.1	35.7	2.1	39.0	3.9
2001	4	18	42.1	5.6	33.5	0.8	38.1	3.4
2001	4	19	52.9	11.6	28.0	-2.2	39.6	4.2
2001	4	20	61.2	16.2	32.1	0.1	46.4	8.0
2001	4	21	66.4	19.1	47.3	8.5	56.0	13.3
2001	4	22	79.6	26.4	51.2	10.7	66.0	18.9
2001	4	23	86.7	30.4	55.0	12.8	72.2	22.3
2001	4	24	77.8	25.4	48.1	8.9	64.8	18.2
2001	4	25	54.6	12.6	39.8	4.3	46.3	7.9
2001	4	26	64.3	17.9	32.3	0.2	49.0	9.4
2001	4	27	70.0	21.1	35.2	1.8	53.1	11.7
2001	4	28	56.7	13.7	43.8	6.6	50.3	10.2
2001	4	29	63.8	17.7	30.1	-1.1	48.0	8.9
2001	4	30	75.8	24.3	34.1	1.2	56.4	13.5
2001	5	1	84.6	29.2	45.2	7.3	65.8	18.8
2001	5	2	88.2	31.2	49.8	9.9	69.4	20.8
2001	5	3	88.6	31.4	53.0	11.7	72.0	22.2
2001	5	4	88.8	31.6	56.6	13.7	73.9	23.3
2001	5	5	68.8	20.4	51.9	11.1	61.7	16.5
2001	5	6	67.8	19.9	41.6	5.3	55.4	13.0
2001	5	7	68.5	20.3	38.6	3.7	55.6	13.1
2001	5	8	69.4	20.8	42.3	5.7	57.6	14.2
2001	5	9	74.2	23.4	53.6	12.0	62.3	16.8
2001	5	10	79.9	26.6	48.3	9.1	64.0	17.8
2001	5	11	83.0	28.3	48.1	8.9	67.4	19.7
2001	5	12	71.2	21.8	54.4	12.4	63.0	17.2
2001	5	13	61.9	16.6	46.9	8.3	54.4	12.4
2001	5	14	62.3	16.8	35.9	2.2	49.8	9.9
2001	5	15	68.4	20.2	36.9	2.7	53.5	11.9

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

(Page 4 of 49)

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2001	5	16	70.0	21.1	38.6	3.7	56.0	13.3
2001	5	17	56.3	13.5	50.8	10.4	53.3	11.8
2001	5	18	62.4	16.9	53.3	11.8	57.6	14.2
2001	5	19	76.9	24.9	58.3	14.6	66.2	19.0
2001	5	20	64.5	18.1	50.1	10.1	58.0	14.4
2001	5	21	58.2	14.6	51.4	10.8	54.4	12.5
2001	5	22	68.7	20.4	58.2	14.6	61.7	16.5
2001	5	23	68.0	20.0	53.2	11.8	59.8	15.5
2001	5	24	74.9	23.8	52.4	11.3	62.9	17.2
2001	5	25	66.3	19.1	57.5	14.2	61.0	16.1
2001	5	26	62.8	17.1	57.4	14.1	59.3	15.2
2001	5	27	67.9	19.9	55.2	12.9	60.1	15.6
2001	5	28	64.6	18.1	53.5	11.9	58.7	14.8
2001	5	29	68.1	20.1	49.6	9.8	58.1	14.5
2001	5	30	62.8	17.1	45.6	7.6	54.8	12.7
2001	5	31	67.3	19.6	39.8	4.3	54.3	12.4
2001	6	1	63.6	17.6	40.7	4.8	52.2	11.2
2001	6	2	69.3	20.7	53.0	11.7	60.1	15.6
2001	6	3	63.8	17.7	55.7	13.2	59.5	15.3
2001	6	4	69.0	20.6	53.7	12.1	61.3	16.3
2001	6	5	74.1	23.4	49.3	9.6	62.4	16.9
2001	6	6	71.3	21.8	58.3	14.6	63.9	17.7
2001	6	7	73.3	22.9	54.6	12.6	64.0	17.8
2001	6	8	76.4	24.7	47.1	8.4	62.7	17.1
2001	6	9	76.4	24.7	45.7	7.6	61.8	16.6
2001	6	10	77.5	25.3	46.6	8.1	62.5	16.9
2001	6	11	81.0	27.2	58.7	14.8	68.8	20.4
2001	6	12	83.6	28.7	58.6	14.8	69.4	20.8
2001	6	13	85.2	29.6	65.7	18.7	74.0	23.3
2001	6	14	89.2	31.8	65.6	18.7	76.8	24.9
2001	6	15	84.9	29.4	66.8	19.3	75.4	24.1
2001	6	16	79.5	26.4	66.6	19.2	72.4	22.4
2001	6	17	82.4	28.0	63.0	17.2	71.8	22.1
2001	6	18	82.5	28.1	57.3	14.1	70.2	21.2
2001	6	19	87.7	30.9	59.1	15.1	74.4	23.5
2001	6	20	88.3	31.3	62.4	16.9	71.7	22.0
2001	6	21	78.4	25.8	66.2	19.0	71.4	21.9
2001	6	22	77.0	25.0	68.2	20.1	71.0	21.7
2001	6	23	72.1	22.3	58.3	14.6	66.9	19.4
2001	6	24	75.6	24.2	56.3	13.5	65.1	18.4
2001	6	25	80.4	26.9	54.8	12.7	67.7	19.8
2001	6	26	85.3	29.6	58.0	14.4	71.1	21.7
2001	6	27	88.0	31.1	60.0	15.6	74.3	23.5
2001	6	28	88.2	31.2	63.1	17.3	75.8	24.3
2001	6	29	87.6	30.9	65.1	18.4	76.6	24.8

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2001	6	30	86.0	30.0	66.2	19.0	76.2	24.6
2001	7	1	81.2	27.3	58.5	14.7	69.7	21.0
2001	7	2	68.5	20.3	52.1	11.2	59.3	15.2
2001	7	3	74.5	23.6	46.4	8.0	62.8	17.1
2001	7	4	79.4	26.3	63.6	17.6	70.1	21.1
2001	7	5	80.8	27.1	60.7	15.9	69.0	20.6
2001	7	6	69.9	21.1	51.2	10.7	61.5	16.4
2001	7	7	78.9	26.1	49.9	9.9	65.9	18.8
2001	7	8	77.1	25.1	64.1	17.8	69.4	20.8
2001	7	9	86.6	30.3	64.0	17.8	73.7	23.2
2001	7	10	82.3	27.9	61.4	16.3	70.4	21.3
2001	7	11	75.0	23.9	61.1	16.2	67.9	19.9
2001	7	12	73.1	22.8	55.4	13.0	64.5	18.0
2001	7	13	71.6	22.0	50.0	10.0	61.6	16.4
2001	7	14	74.1	23.4	54.5	12.5	64.9	18.3
2001	7	15	75.7	24.3	53.6	12.0	65.2	18.5
2001	7	16	79.5	26.4	57.6	14.2	68.9	20.5
2001	7	17	83.3	28.5	64.6	18.1	70.9	21.6
2001	7	18	79.8	26.6	63.7	17.6	70.1	21.2
2001	7	19	79.8	26.6	62.2	16.8	71.0	21.7
2001	7	20	81.4	27.4	58.8	14.9	70.0	21.1
2001	7	21	83.3	28.5	52.9	11.6	68.0	20.0
2001	7	22	83.7	28.7	55.6	13.1	70.5	21.4
2001	7	23	88.7	31.5	59.9	15.5	75.4	24.1
2001	7	24	92.3	33.5	67.1	19.5	80.9	27.1
2001	7	25	91.1	32.8	68.8	20.4	78.1	25.6
2001	7	26	74.0	23.3	60.8	16.0	69.1	20.6
2001	7	27	73.9	23.3	50.8	10.4	63.1	17.3
2001	7	28	77.7	25.4	51.6	10.9	65.8	18.8
2001	7	29	73.7	23.2	62.5	16.9	67.7	19.8
2001	7	30	75.9	24.4	64.1	17.8	68.6	20.3
2001	7	31	83.7	28.7	61.5	16.4	70.1	21.1
2001	8	1	88.0	31.1	58.0	14.4	72.2	22.3
2001	8	2	88.6	31.4	60.1	15.6	75.2	24.0
2001	8	3	85.5	29.7	67.0	19.4	75.7	24.3
2001	8	4	84.2	29.0	67.9	19.9	74.1	23.4
2001	8	5	88.5	31.4	64.8	18.2	75.2	24.0
2001	8	6	92.2	33.4	66.4	19.1	79.1	26.1
2001	8	7	96.0	35.6	69.5	20.8	82.3	27.9
2001	8	8	94.4	34.7	71.6	22.0	82.0	27.8
2001	8	9	96.8	36.0	65.8	18.8	82.1	27.8
2001	8	10	83.1	28.4	72.7	22.6	77.5	25.3
2001	8	11	73.4	23.0	68.1	20.1	70.2	21.2
2001	8	12	79.0	26.1	68.0	20.0	72.7	22.6
2001	8	13	81.5	27.5	66.8	19.3	73.6	23.1

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2001	8	14	81.8	27.7	63.5	17.5	71.3	21.8
2001	8	15	82.6	28.1	58.9	14.9	71.4	21.9
2001	8	16	83.1	28.4	61.6	16.4	72.6	22.5
2001	8	17	82.6	28.1	64.9	18.3	73.9	23.3
2001	8	18	80.4	26.9	57.7	14.3	69.3	20.7
2001	8	19	84.3	29.1	60.0	15.6	71.7	22.1
2001	8	20	80.3	26.8	66.7	19.3	72.6	22.5
2001	8	21	78.2	25.7	58.6	14.8	67.8	19.9
2001	8	22	80.6	27.0	55.8	13.2	68.3	20.2
2001	8	23	67.5	19.7	59.8	15.4	63.7	17.6
2001	8	24	80.0	26.7	60.5	15.8	68.3	20.1
2001	8	25	81.1	27.3	53.5	11.9	67.2	19.5
2001	8	26	80.8	27.1	59.9	15.5	71.7	22.1
2001	8	27	76.5	24.7	66.4	19.1	71.0	21.7
2001	8	28	84.1	28.9	62.5	16.9	68.1	20.1
2001	8	29	78.7	25.9	60.2	15.7	67.6	19.8
2001	8	30	78.3	25.7	56.8	13.8	67.9	19.9
2001	8	31	84.1	28.9	68.5	20.3	74.3	23.5
2001	9	1	69.2	20.7	53.8	12.1	65.4	18.6
2001	9	2	72.0	22.2	46.3	7.9	57.8	14.3
2001	9	3	77.5	25.3	48.8	9.3	63.6	17.6
2001	9	4	77.1	25.1	62.6	17.0	67.8	19.9
2001	9	5	71.4	21.9	52.5	11.4	61.7	16.5
2001	9	6	76.5	24.7	46.9	8.3	59.4	15.2
2001	9	7	83.1	28.4	48.9	9.4	66.1	18.9
2001	9	8	83.0	28.3	57.5	14.2	70.7	21.5
2001	9	9	81.8	27.7	58.9	14.9	71.2	21.8
2001	9	10	77.0	25.0	59.4	15.2	70.0	21.1
2001	9	11	75.1	23.9	56.0	13.3	63.8	17.7
2001	9	12	76.5	24.7	50.0	10.0	61.2	16.2
2001	9	13	80.8	27.1	50.1	10.1	63.7	17.6
2001	9	14	61.3	16.3	47.6	8.7	55.7	13.2
2001	9	15	65.0	18.3	40.9	4.9	51.7	10.9
2001	9	16	69.7	20.9	42.1	5.6	54.1	12.3
2001	9	17	73.5	23.1	45.7	7.6	57.0	13.9
2001	9	18	74.5	23.6	49.0	9.4	60.1	15.6
2001	9	19	75.9	24.4	53.5	11.9	64.8	18.2
2001	9	20	69.1	20.6	63.5	17.5	65.4	18.6
2001	9	21	76.8	24.9	57.7	14.3	66.3	19.1
2001	9	22	74.1	23.4	55.8	13.2	63.9	17.7
2001	9	23	75.9	24.4	51.3	10.7	61.3	16.3
2001	9	24	70.6	21.4	54.4	12.4	63.1	17.3
2001	9	25	61.1	16.2	46.0	7.8	56.4	13.5
2001	9	26	58.5	14.7	41.1	5.1	50.0	10.0
2001	9	27	56.2	13.4	47.0	8.3	51.3	10.7

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2001	9	28	56.5	13.6	45.4	7.4	49.9	9.9
2001	9	29	62.2	16.8	46.7	8.2	53.2	11.8
2001	9	30	59.0	15.0	39.7	4.3	48.9	9.4
2001	10	1	70.0	21.1	43.1	6.2	52.8	11.6
2001	10	2	73.7	23.2	44.2	6.8	57.3	14.1
2001	10	3	78.5	25.8	48.9	9.4	62.5	17.0
2001	10	4	78.3	25.7	50.3	10.2	63.4	17.4
2001	10	5	76.4	24.7	48.5	9.2	62.9	17.2
2001	10	6	67.6	19.8	47.2	8.4	57.5	14.2
2001	10	7	48.4	9.1	38.4	3.6	44.3	6.8
2001	10	8	50.4	10.2	32.7	0.4	41.2	5.1
2001	10	9	59.9	15.5	28.9	-1.7	43.6	6.4
2001	10	10	68.5	20.3	34.9	1.6	50.4	10.2
2001	10	11	74.0	23.3	40.9	4.9	55.9	13.3
2001	10	12	73.7	23.2	47.2	8.4	60.4	15.8
2001	10	13	76.2	24.6	53.5	11.9	66.7	19.3
2001	10	14	67.6	19.8	60.8	16.0	64.0	17.8
2001	10	15	63.0	17.2	43.0	6.1	54.2	12.3
2001	10	16	65.5	18.6	39.2	4.0	50.3	10.2
2001	10	17	50.2	10.1	43.2	6.2	47.1	8.4
2001	10	18	55.1	12.8	33.1	0.6	43.0	6.1
2001	10	19	62.8	17.1	32.4	0.2	47.6	8.7
2001	10	20	65.4	18.6	41.8	5.4	51.5	10.8
2001	10	21	75.2	24.0	38.8	3.8	56.0	13.4
2001	10	22	62.0	16.7	50.1	10.1	54.1	12.3
2001	10	23	68.9	20.5	49.8	9.9	60.0	15.5
2001	10	24	76.6	24.8	56.6	13.7	65.6	18.7
2001	10	25	69.8	21.0	53.2	11.8	63.1	17.3
2001	10	26	53.3	11.8	39.4	4.1	46.1	7.9
2001	10	27	44.5	6.9	38.8	3.8	41.0	5.0
2001	10	28	46.6	8.1	30.6	-0.8	39.8	4.3
2001	10	29	54.7	12.6	25.6	-3.6	40.3	4.6
2001	10	30	54.8	12.7	39.3	4.1	47.5	8.6
2001	10	31	52.3	11.3	39.4	4.1	46.9	8.3
2001	11	1	63.5	17.5	37.8	3.2	52.3	11.3
2001	11	2	72.7	22.6	47.5	8.6	61.3	16.3
2001	11	3	64.3	17.9	46.0	7.8	58.8	14.9
2001	11	4	59.7	15.4	36.5	2.5	48.3	9.0
2001	11	5	48.1	8.9	41.3	5.2	43.0	6.1
2001	11	6	51.4	10.8	39.6	4.2	44.1	6.7
2001	11	7	62.3	16.8	39.1	3.9	50.5	10.3
2001	11	8	65.2	18.4	35.2	1.8	49.0	9.4
2001	11	9	60.9	16.1	34.3	1.3	46.3	7.9
2001	11	10	58.9	14.9	31.6	-0.2	42.4	5.8
2001	11	11	51.0	10.6	28.8	-1.8	41.3	5.2

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

(Page 8 of 49)

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2001	11	12	45.7	7.6	24.0	-4.4	34.0	1.1
2001	11	13	52.7	11.5	24.0	-4.4	36.2	2.3
2001	11	14	58.4	14.7	27.2	-2.7	40.4	4.7
2001	11	15	62.0	16.7	41.8	5.4	51.1	10.6
2001	11	16	66.7	19.3	41.9	5.5	53.4	11.9
2001	11	17	54.3	12.4	34.5	1.4	43.7	6.5
2001	11	18	54.2	12.3	29.6	-1.3	40.4	4.7
2001	11	19	59.3	15.2	32.5	0.3	44.4	6.9
2001	11	20	56.4	13.6	33.6	0.9	41.6	5.3
2001	11	21	44.1	6.7	29.5	-1.4	36.2	2.3
2001	11	22	51.3	10.7	27.7	-2.4	37.3	2.9
2001	11	23	57.1	13.9	29.4	-1.4	42.8	6.0
2001	11	24	60.7	15.9	46.5	8.1	54.7	12.6
2001	11	25	63.6	17.6	45.3	7.4	57.4	14.1
2001	11	26	53.7	12.1	42.4	5.8	47.1	8.4
2001	11	27	52.5	11.4	36.3	2.4	44.5	6.9
2001	11	28	57.8	14.3	48.7	9.3	51.9	11.1
2001	11	29	54.0	12.2	50.0	10.0	52.1	11.1
2001	11	30	65.4	18.6	52.2	11.2	60.7	15.9
2001	12	1	60.8	16.0	43.3	6.3	52.3	11.3
2001	12	2	50.2	10.1	34.2	1.2	40.9	5.0
2001	12	3	54.9	12.7	29.8	-1.2	38.8	3.8
2001	12	4	59.6	15.3	30.9	-0.6	44.6	7.0
2001	12	5	67.4	19.7	48.0	8.9	56.1	13.4
2001	12	6	62.0	16.7	42.7	5.9	52.3	11.3
2001	12	7	56.0	13.3	36.7	2.6	49.3	9.6
2001	12	8	38.2	3.4	29.7	-1.3	34.0	1.1
2001	12	9	41.1	5.1	29.8	-1.2	36.5	2.5
2001	12	10	45.1	7.3	25.0	-3.9	34.1	1.2
2001	12	11	49.3	9.6	30.8	-0.7	39.6	4.2
2001	12	12	44.6	7.0	27.0	-2.8	36.7	2.6
2001	12	13	51.4	10.8	44.0	6.7	48.2	9.0
2001	12	14	56.9	13.8	45.3	7.4	50.4	10.2
2001	12	15	53.4	11.9	32.8	0.4	39.9	4.4
2001	12	16	38.3	3.5	25.3	-3.7	32.6	0.4
2001	12	17	42.8	6.0	35.2	1.8	39.4	4.1
2001	12	18	44.5	6.9	39.1	3.9	42.6	5.9
2001	12	19	47.9	8.8	39.0	3.9	42.1	5.6
2001	12	20	40.2	4.6	32.7	0.4	36.4	2.5
2001	12	21	37.6	3.1	32.2	0.1	35.5	1.9
2001	12	22	37.9	3.3	27.3	-2.6	31.5	-0.3
2001	12	23	44.5	6.9	23.5	-4.7	34.8	1.5
2001	12	24	40.9	4.9	30.0	-1.1	35.2	1.8
2001	12	25	31.3	-0.4	23.3	-4.8	27.6	-2.4
2001	12	26	29.9	-1.2	18.4	-7.6	23.9	-4.5

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2001	12	27	26.4	-3.1	15.1	-9.4	21.7	-5.7
2001	12	28	34.8	1.6	22.8	-5.1	28.3	-2.1
2001	12	29	31.1	-0.5	20.7	-6.3	25.3	-3.7
2001	12	30	25.4	-3.7	17.7	-7.9	21.4	-5.9
2001	12	31	25.7	-3.5	14.9	-9.5	19.7	-6.9
2002	1	1	30.6	-0.8	13.9	-10.1	21.8	-5.7
2002	1	2	31.5	-0.3	12.0	-11.1	22.8	-5.1
2002	1	3	35.0	1.7	10.3	-12.1	22.7	-5.2
2002	1	4	32.9	0.5	22.0	-5.6	27.9	-2.3
2002	1	5	37.5	3.1	29.3	-1.5	32.4	0.2
2002	1	6	38.3	3.5	23.4	-4.8	30.3	-0.9
2002	1	7	33.7	0.9	23.3	-4.8	30.9	-0.6
2002	1	8	29.4	-1.4	12.5	-10.8	22.9	-5.1
2002	1	9	42.4	5.8	22.8	-5.1	31.9	0.0
2002	1	10	51.0	10.6	32.8	0.4	40.2	4.5
2002	1	11	41.8	5.4	31.2	-0.4	36.2	2.3
2002	1	12	41.7	5.4	32.8	0.4	37.1	2.8
2002	1	13	39.2	4.0	32.5	0.3	36.4	2.5
2002	1	14	43.2	6.2	28.9	-1.7	36.7	2.6
2002	1	15	42.3	5.7	33.0	0.6	37.9	3.3
2002	1	16	36.8	2.7	31.4	-0.3	34.8	1.5
2002	1	17	42.8	6.0	31.6	-0.2	36.3	2.4
2002	1	18	32.8	0.4	26.2	-3.2	29.8	-1.2
2002	1	19	26.9	-2.8	20.3	-6.5	24.0	-4.4
2002	1	20	32.9	0.5	20.5	-6.4	26.6	-3.0
2002	1	21	38.2	3.4	22.7	-5.2	31.7	-0.2
2002	1	22	43.5	6.4	27.7	-2.4	37.0	2.8
2002	1	23	45.8	7.7	27.5	-2.5	41.0	5.0
2002	1	24	44.6	7.0	38.1	3.4	40.4	4.7
2002	1	25	43.5	6.4	32.9	0.5	37.8	3.2
2002	1	26	51.8	11.0	28.8	-1.8	38.5	3.6
2002	1	27	58.4	14.7	25.5	-3.6	39.0	3.9
2002	1	28	58.3	14.6	27.4	-2.6	40.1	4.5
2002	1	29	65.1	18.4	34.2	1.2	47.1	8.4
2002	1	30	53.2	11.8	37.1	2.8	47.6	8.6
2002	1	31	39.2	4.0	33.3	0.7	36.5	2.5
2002	2	1	53.5	11.9	37.0	2.8	42.6	5.9
2002	2	2	35.0	1.7	24.9	-3.9	30.0	-1.1
2002	2	3	40.5	4.7	20.0	-6.7	30.6	-0.8
2002	2	4	33.3	0.7	17.8	-7.9	28.0	-2.2
2002	2	5	32.6	0.3	14.3	-9.8	22.5	-5.3
2002	2	6	38.7	3.7	26.9	-2.8	32.5	0.3
2002	2	7	41.5	5.3	28.6	-1.9	33.3	0.7
2002	2	8	50.2	10.1	27.5	-2.5	39.4	4.1
2002	2	9	50.2	10.1	31.3	-0.4	40.6	4.8

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2002	2	10	50.8	10.4	37.8	3.2	43.7	6.5
2002	2	11	43.3	6.3	20.2	-6.6	31.2	-0.4
2002	2	12	44.9	7.2	18.5	-7.5	33.4	0.8
2002	2	13	40.1	4.5	21.7	-5.7	30.7	-0.7
2002	2	14	39.6	4.2	12.5	-10.8	26.0	-3.3
2002	2	15	48.1	8.9	24.0	-4.4	37.6	3.1
2002	2	16	46.7	8.2	35.1	1.7	41.9	5.5
2002	2	17	40.1	4.5	28.3	-2.1	35.3	1.8
2002	2	18	41.5	5.3	24.7	-4.1	31.3	-0.4
2002	2	19	50.2	10.1	18.8	-7.3	34.5	1.4
2002	2	20	57.2	14.0	35.7	2.1	47.2	8.4
2002	2	21	54.9	12.7	44.5	6.9	49.1	9.5
2002	2	22	43.5	6.4	36.7	2.6	39.4	4.1
2002	2	23	42.3	5.7	29.1	-1.6	35.0	1.7
2002	2	24	49.7	9.8	22.2	-5.4	34.3	1.3
2002	2	25	56.0	13.3	29.0	-1.7	42.2	5.6
2002	2	26	57.3	14.1	30.2	-1.0	43.7	6.5
2002	2	27	38.1	3.4	26.0	-3.3	31.1	-0.5
2002	2	28	35.6	2.0	23.8	-4.6	28.7	-1.8
2002	3	1	43.1	6.2	18.7	-7.4	30.6	-0.8
2002	3	2	46.1	7.8	24.4	-4.2	36.1	2.3
2002	3	3	57.8	14.3	33.1	0.6	49.1	9.5
2002	3	4	31.9	-0.1	17.8	-7.9	25.3	-3.7
2002	3	5	31.4	-0.3	12.8	-10.7	21.9	-5.6
2002	3	6	59.9	15.5	21.1	-6.1	40.3	4.6
2002	3	7	58.3	14.6	29.2	-1.6	44.1	6.7
2002	3	8	66.5	19.2	33.1	0.6	50.3	10.2
2002	3	9	62.6	17.0	51.9	11.1	57.4	14.1
2002	3	10	57.6	14.2	26.6	-3.0	34.8	1.5
2002	3	11	37.1	2.8	23.1	-4.9	29.2	-1.6
2002	3	12	45.9	7.7	28.1	-2.2	38.7	3.7
2002	3	13	45.6	7.6	37.2	2.9	42.5	5.9
2002	3	14	61.2	16.2	42.5	5.8	50.8	10.5
2002	3	15	66.4	19.1	50.9	10.5	59.3	15.2
2002	3	16	61.0	16.1	31.5	-0.3	46.3	7.9
2002	3	17	37.6	3.1	27.0	-2.8	32.0	0.0
2002	3	18	37.4	3.0	32.5	0.3	36.1	2.3
2002	3	19	41.5	5.3	37.2	2.9	38.8	3.8
2002	3	20	42.6	5.9	36.1	2.3	38.7	3.7
2002	3	21	53.0	11.7	27.5	-2.5	40.7	4.8
2002	3	22	27.3	-2.6	18.6	-7.4	23.0	-5.0
2002	3	23	46.7	8.2	21.0	-6.1	33.7	0.9
2002	3	24	51.7	10.9	27.1	-2.7	40.7	4.8
2002	3	25	39.3	4.1	32.6	0.3	34.6	1.5
2002	3	26	42.8	6.0	34.5	1.4	37.3	2.9

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2002	3	27	41.2	5.1	36.8	2.7	39.7	4.3
2002	3	28	49.5	9.7	27.9	-2.3	38.6	3.7
2002	3	29	62.2	16.8	31.6	-0.2	47.8	8.8
2002	3	30	61.0	16.1	49.7	9.8	56.3	13.5
2002	3	31	59.6	15.3	45.3	7.4	51.1	10.6
2002	4	1	50.1	10.1	42.0	5.6	46.7	8.2
2002	4	2	61.0	16.1	31.4	-0.3	46.6	8.1
2002	4	3	60.6	15.9	38.1	3.4	51.3	10.7
2002	4	4	44.5	6.9	32.3	0.2	37.9	3.3
2002	4	5	37.6	3.1	23.9	-4.5	31.7	-0.2
2002	4	6	39.1	3.9	28.8	-1.8	33.6	0.9
2002	4	7	48.8	9.3	21.5	-5.8	36.2	2.3
2002	4	8	60.0	15.6	42.2	5.7	50.0	10.0
2002	4	9	67.1	19.5	57.6	14.2	61.5	16.4
2002	4	10	60.3	15.7	44.3	6.8	51.6	10.9
2002	4	11	64.4	18.0	35.6	2.0	51.3	10.7
2002	4	12	58.5	14.7	40.1	4.5	50.4	10.2
2002	4	13	64.2	17.9	57.2	14.0	60.7	16.0
2002	4	14	72.3	22.4	52.2	11.2	61.8	16.6
2002	4	15	75.3	24.1	59.2	15.1	66.5	19.1
2002	4	16	87.3	30.7	56.6	13.7	72.2	22.3
2002	4	17	90.3	32.4	57.1	13.9	74.8	23.8
2002	4	18	86.8	30.4	61.8	16.6	74.4	23.5
2002	4	19	85.4	29.7	59.0	15.0	69.6	20.9
2002	4	20	61.7	16.5	50.2	10.1	56.8	13.8
2002	4	21	47.2	8.4	41.4	5.2	43.3	6.3
2002	4	22	50.0	10.0	38.5	3.6	43.5	6.4
2002	4	23	51.6	10.9	36.7	2.6	43.4	6.3
2002	4	24	59.5	15.3	29.8	-1.2	46.1	7.9
2002	4	25	51.4	10.8	37.4	3.0	46.5	8.1
2002	4	26	57.3	14.1	32.1	0.1	45.5	7.5
2002	4	27	58.5	14.7	30.7	-0.7	46.5	8.0
2002	4	28	64.2	17.9	47.0	8.3	53.6	12.0
2002	4	29	57.2	14.0	41.3	5.2	46.3	7.9
2002	4	30	55.0	12.8	38.0	3.3	46.4	8.0
2002	5	1	62.3	16.8	33.9	1.1	48.8	9.3
2002	5	2	71.4	21.9	48.4	9.1	59.1	15.0
2002	5	3	58.4	14.7	45.2	7.3	50.8	10.4
2002	5	4	63.5	17.5	31.4	-0.3	49.3	9.6
2002	5	5	70.0	21.1	39.7	4.3	56.1	13.4
2002	5	6	74.0	23.3	42.8	6.0	59.8	15.5
2002	5	7	75.6	24.2	58.3	14.6	66.3	19.1
2002	5	8	70.2	21.2	53.4	11.9	62.4	16.9
2002	5	9	58.4	14.7	42.8	6.0	51.4	10.8
2002	5	10	68.9	20.5	53.8	12.1	60.5	15.8

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2002	5	11	66.1	18.9	44.1	6.7	56.8	13.8
2002	5	12	56.7	13.7	51.3	10.7	54.7	12.6
2002	5	13	62.2	16.8	51.1	10.6	57.7	14.3
2002	5	14	54.7	12.6	45.2	7.3	48.4	9.1
2002	5	15	66.2	19.0	42.0	5.6	53.6	12.0
2002	5	16	76.1	24.5	39.7	4.3	60.1	15.6
2002	5	17	67.0	19.4	47.9	8.8	59.9	15.5
2002	5	18	49.5	9.7	38.4	3.6	44.5	6.9
2002	5	19	52.6	11.4	36.1	2.3	44.4	6.9
2002	5	20	49.2	9.6	36.7	2.6	42.7	5.9
2002	5	21	52.5	11.4	30.9	-0.6	43.1	6.1
2002	5	22	62.8	17.1	32.2	0.1	48.3	9.1
2002	5	23	74.2	23.4	36.8	2.7	56.5	13.6
2002	5	24	79.1	26.2	45.9	7.7	64.4	18.0
2002	5	25	68.5	20.3	48.3	9.1	60.0	15.6
2002	5	26	75.4	24.1	56.2	13.4	64.8	18.2
2002	5	27	77.7	25.4	55.0	12.8	67.7	19.8
2002	5	28	77.0	25.0	60.4	15.8	66.2	19.0
2002	5	29	76.3	24.6	59.5	15.3	66.5	19.1
2002	5	30	81.1	27.3	61.4	16.3	70.8	21.6
2002	5	31	83.0	28.3	59.7	15.4	70.4	21.3
2002	6	1	83.6	28.7	59.6	15.3	70.3	21.3
2002	6	2	73.1	22.8	55.8	13.2	64.9	18.3
2002	6	3	67.9	19.9	46.5	8.1	58.7	14.8
2002	6	4	71.6	22.0	52.5	11.4	64.4	18.0
2002	6	5	85.2	29.6	65.6	18.7	73.8	23.2
2002	6	6	66.2	19.0	58.5	14.7	62.9	17.2
2002	6	7	73.0	22.8	53.8	12.1	62.5	16.9
2002	6	8	73.2	22.9	52.4	11.3	63.4	17.5
2002	6	9	82.9	28.3	53.8	12.1	68.4	20.2
2002	6	10	82.7	28.2	59.8	15.4	71.3	21.8
2002	6	11	85.7	29.8	61.0	16.1	72.6	22.6
2002	6	12	78.3	25.7	65.6	18.7	71.9	22.2
2002	6	13	70.4	21.3	60.4	15.8	64.8	18.2
2002	6	14	62.9	17.2	57.6	14.2	58.9	14.9
2002	6	15	66.5	19.2	56.8	13.8	60.3	15.7
2002	6	16	72.4	22.4	56.2	13.4	63.6	17.6
2002	6	17	73.9	23.3	50.6	10.3	61.2	16.2
2002	6	18	75.5	24.2	47.6	8.7	61.5	16.4
2002	6	19	77.1	25.1	54.0	12.2	66.0	18.9
2002	6	20	81.1	27.3	56.8	13.8	69.2	20.7
2002	6	21	82.5	28.1	58.8	14.9	71.0	21.7
2002	6	22	83.8	28.8	59.2	15.1	72.2	22.4
2002	6	23	86.3	30.2	66.5	19.2	76.0	24.4
2002	6	24	85.2	29.6	68.1	20.1	75.7	24.3

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2002	6	25	88.2	31.2	68.4	20.2	77.0	25.0
2002	6	26	89.1	31.7	66.8	19.3	78.8	26.0
2002	6	27	85.4	29.7	67.5	19.7	74.3	23.5
2002	6	28	78.5	25.8	63.5	17.5	71.5	21.9
2002	6	29	82.3	27.9	55.4	13.0	69.1	20.6
2002	6	30	84.4	29.1	61.1	16.2	72.8	22.7
2002	7	1	86.6	30.3	61.7	16.5	74.5	23.6
2002	7	2	91.7	33.2	66.3	19.1	77.8	25.4
2002	7	3	92.8	33.8	73.1	22.8	81.9	27.7
2002	7	4	92.8	33.8	70.3	21.3	80.8	27.1
2002	7	5	77.1	25.1	63.2	17.3	71.1	21.7
2002	7	6	75.4	24.1	54.8	12.7	66.0	18.9
2002	7	7	79.1	26.2	52.8	11.6	65.9	18.8
2002	7	8	87.1	30.6	56.8	13.8	71.2	21.8
2002	7	9	86.5	30.3	64.7	18.2	73.0	22.8
2002	7	10	75.4	24.1	61.2	16.2	70.0	21.1
2002	7	11	73.5	23.1	48.3	9.1	62.5	16.9
2002	7	12	79.2	26.2	46.7	8.2	63.6	17.5
2002	7	13	80.1	26.7	51.1	10.6	66.9	19.4
2002	7	14	76.8	24.9	63.3	17.4	69.1	20.6
2002	7	15	88.1	31.2	60.6	15.9	74.4	23.6
2002	7	16	84.3	29.1	60.8	16.0	73.0	22.8
2002	7	17	93.4	34.1	57.1	13.9	75.9	24.4
2002	7	18	88.4	31.3	68.4	20.2	77.2	25.1
2002	7	19	87.3	30.7	66.7	19.3	72.8	22.7
2002	7	20	81.5	27.5	65.1	18.4	72.4	22.4
2002	7	21	85.2	29.6	62.0	16.7	74.4	23.5
2002	7	22	91.5	33.1	67.6	19.8	81.2	27.3
2002	7	23	90.1	32.3	65.1	18.4	75.8	24.3
2002	7	24	79.2	26.2	62.5	16.9	69.6	20.9
2002	7	25	78.4	25.8	66.4	19.1	71.3	21.8
2002	7	26	71.4	21.9	64.0	17.8	67.1	19.5
2002	7	27	78.7	25.9	64.9	18.3	71.1	21.7
2002	7	28	85.9	29.9	69.1	20.6	75.6	24.2
2002	7	29	90.3	32.4	73.7	23.2	81.1	27.3
2002	7	30	86.5	30.3	71.7	22.1	79.2	26.2
2002	7	31	90.0	32.2	62.1	16.7	76.2	24.5
2002	8	1	92.0	33.3	66.7	19.3	78.5	25.8
2002	8	2	94.8	34.9	66.1	18.9	79.3	26.3
2002	8	3	90.4	32.4	68.8	20.4	78.7	25.9
2002	8	4	92.4	33.6	66.1	18.9	79.4	26.4
2002	8	5	86.6	30.3	67.3	19.6	74.7	23.7
2002	8	6	73.3	22.9	63.0	17.2	68.0	20.0
2002	8	7	74.1	23.4	52.3	11.3	64.7	18.1
2002	8	8	76.3	24.6	50.7	10.4	64.9	18.3

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2002	8	9	81.1	27.3	50.8	10.4	66.6	19.2
2002	8	10	88.3	31.3	52.9	11.6	70.9	21.6
2002	8	11	90.4	32.4	57.5	14.2	74.4	23.5
2002	8	12	93.1	33.9	62.1	16.7	77.5	25.3
2002	8	13	92.9	33.8	65.2	18.4	79.1	26.1
2002	8	14	96.3	35.7	66.7	19.3	81.5	27.5
2002	8	15	92.2	33.4	67.8	19.9	79.7	26.5
2002	8	16	87.9	31.1	69.1	20.6	77.6	25.3
2002	8	17	89.6	32.0	68.6	20.3	78.2	25.7
2002	8	18	90.1	32.3	67.3	19.6	78.2	25.7
2002	8	19	85.3	29.6	63.1	17.3	76.0	24.4
2002	8	20	79.2	26.2	63.7	17.6	72.2	22.3
2002	8	21	85.6	29.8	55.7	13.2	71.3	21.8
2002	8	22	88.8	31.6	64.0	17.8	76.7	24.8
2002	8	23	79.9	26.6	68.7	20.4	73.2	22.9
2002	8	24	77.5	25.3	67.4	19.7	70.5	21.4
2002	8	25	80.4	26.9	61.8	16.6	70.9	21.6
2002	8	26	80.0	26.7	57.2	14.0	67.9	19.9
2002	8	27	80.7	27.1	58.6	14.8	70.6	21.5
2002	8	28	74.1	23.4	59.3	15.2	68.1	20.0
2002	8	29	63.2	17.3	55.9	13.3	59.6	15.3
2002	8	30	73.6	23.1	57.9	14.4	63.3	17.4
2002	8	31	78.5	25.8	54.4	12.4	66.0	18.9
2002	9	1	62.3	16.8	56.5	13.6	59.3	15.2
2002	9	2	71.4	21.9	59.3	15.2	64.1	17.8
2002	9	3	85.0	29.4	57.6	14.2	70.0	21.1
2002	9	4	83.8	28.8	68.2	20.1	75.3	24.1
2002	9	5	76.7	24.8	57.4	14.1	66.8	19.3
2002	9	6	77.7	25.4	48.6	9.2	62.4	16.9
2002	9	7	84.5	29.2	49.3	9.6	65.7	18.7
2002	9	8	86.8	30.4	51.0	10.6	67.0	19.5
2002	9	9	92.6	33.7	50.7	10.4	69.8	21.0
2002	9	10	92.4	33.6	56.2	13.4	72.3	22.4
2002	9	11	71.5	21.9	58.2	14.6	64.6	18.1
2002	9	12	72.5	22.5	48.4	9.1	61.0	16.1
2002	9	13	82.1	27.8	43.3	6.3	61.8	16.5
2002	9	14	83.9	28.8	53.2	11.8	68.9	20.5
2002	9	15	75.1	23.9	68.1	20.1	70.8	21.5
2002	9	16	73.0	22.8	59.0	15.0	68.0	20.0
2002	9	17	76.9	24.9	54.7	12.6	61.7	16.5
2002	9	18	76.2	24.6	51.0	10.6	63.3	17.4
2002	9	19	73.0	22.8	54.7	12.6	65.0	18.3
2002	9	20	78.8	26.0	65.1	18.4	72.3	22.4
2002	9	21	77.6	25.3	69.4	20.8	72.5	22.5
2002	9	22	73.5	23.1	65.4	18.6	70.5	21.4

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2002	9	23	67.1	19.5	50.0	10.0	60.7	15.9
2002	9	24	72.0	22.2	45.3	7.4	56.3	13.5
2002	9	25	72.0	22.2	48.4	9.1	58.7	14.8
2002	9	26	57.3	14.1	53.0	11.7	55.7	13.2
2002	9	27	72.5	22.5	53.8	12.1	62.5	16.9
2002	9	28	68.4	20.2	49.6	9.8	62.2	16.8
2002	9	29	69.3	20.7	43.2	6.2	54.8	12.7
2002	9	30	69.1	20.6	48.5	9.2	58.4	14.7
2002	10	1	79.4	26.3	51.1	10.6	64.0	17.8
2002	10	2	81.3	27.4	58.1	14.5	68.7	20.4
2002	10	3	74.1	23.4	61.5	16.4	66.6	19.2
2002	10	4	73.0	22.8	62.5	16.9	65.0	18.3
2002	10	5	73.8	23.2	56.1	13.4	68.9	20.5
2002	10	6	66.4	19.1	44.5	6.9	56.4	13.6
2002	10	7	67.6	19.8	50.9	10.5	61.7	16.5
2002	10	8	57.9	14.4	38.3	3.5	47.9	8.8
2002	10	9	62.0	16.7	39.8	4.3	51.2	10.7
2002	10	10	60.9	16.1	56.5	13.6	58.2	14.6
2002	10	11	56.2	13.4	53.8	12.1	54.9	12.7
2002	10	12	63.6	17.6	55.8	13.2	59.2	15.1
2002	10	13	62.4	16.9	51.8	11.0	57.7	14.3
2002	10	14	52.3	11.3	36.8	2.7	46.1	7.8
2002	10	15	55.5	13.1	32.7	0.4	45.2	7.4
2002	10	16	51.1	10.6	47.6	8.7	49.0	9.4
2002	10	17	54.8	12.7	43.0	6.1	47.7	8.7
2002	10	18	52.4	11.3	36.6	2.6	43.8	6.6
2002	10	19	50.9	10.5	42.4	5.8	48.1	9.0
2002	10	20	54.7	12.6	35.7	2.1	44.7	7.1
2002	10	21	51.8	11.0	34.4	1.3	41.3	5.2
2002	10	22	57.6	14.2	30.4	-0.9	43.2	6.2
2002	10	23	47.9	8.8	35.0	1.7	41.6	5.3
2002	10	24	42.1	5.6	29.1	-1.6	35.6	2.0
2002	10	25	42.3	5.7	34.8	1.6	39.3	4.0
2002	10	26	56.7	13.7	43.1	6.2	50.3	10.1
2002	10	27	57.0	13.9	43.9	6.6	49.6	9.8
2002	10	28	50.9	10.5	35.0	1.7	44.2	6.8
2002	10	29	42.7	5.9	29.2	-1.6	35.0	1.7
2002	10	30	35.8	2.1	32.5	0.3	33.7	1.0
2002	10	31	45.1	7.3	30.3	-0.9	36.8	2.7
2002	11	1	41.6	5.3	28.9	-1.7	35.3	1.9
2002	11	2	42.5	5.8	31.4	-0.3	36.5	2.5
2002	11	3	41.7	5.4	32.5	0.3	37.4	3.0
2002	11	6	46.8	8.2	36.2	2.3	41.8	5.5
2002	11	7	42.0	5.6	28.6	-1.9	38.4	3.6
2002	11	8	60.3	15.7	29.2	-1.6	46.0	7.8

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2002	11	9	65.4	18.6	33.3	0.7	49.2	9.6
2002	11	10	67.4	19.7	54.9	12.7	61.5	16.4
2002	11	11	68.1	20.1	50.0	10.0	63.3	17.4
2002	11	12	48.3	9.1	43.2	6.2	46.2	7.9
2002	11	13	46.0	7.8	40.0	4.4	44.6	7.0
2002	11	14	55.8	13.2	32.9	0.5	43.8	6.6
2002	11	15	56.0	13.3	35.8	2.1	46.9	8.3
2002	11	16	44.0	6.7	38.1	3.4	40.9	5.0
2002	11	17	39.7	4.3	35.8	2.1	38.1	3.4
2002	11	18	43.3	6.3	32.6	0.3	37.1	2.8
2002	11	19	39.5	4.2	29.2	-1.6	34.6	1.5
2002	11	20	50.8	10.4	33.1	0.6	38.9	3.8
2002	11	21	47.6	8.7	30.3	-0.9	39.6	4.2
2002	11	22	48.0	8.9	38.8	3.8	43.2	6.2
2002	11	23	40.5	4.7	32.4	0.2	35.7	2.0
2002	11	24	47.9	8.8	31.9	-0.1	40.1	4.5
2002	11	25	53.3	11.8	30.4	-0.9	41.2	5.1
2002	11	26	42.6	5.9	30.3	-0.9	37.0	2.8
2002	11	27	33.9	1.1	26.0	-3.3	31.1	-0.5
2002	11	28	31.5	-0.3	20.2	-6.6	25.8	-3.5
2002	11	29	38.6	3.7	24.7	-4.1	33.1	0.6
2002	11	30	47.7	8.7	32.2	0.1	39.0	3.9
2002	12	1	34.2	1.2	23.6	-4.7	27.6	-2.4
2002	12	2	35.8	2.1	22.8	-5.1	29.1	-1.6
2002	12	3	22.7	-5.2	11.8	-11.2	17.9	-7.8
2002	12	4	26.3	-3.2	8.7	-12.9	17.3	-8.2
2002	12	5	24.9	-3.9	20.0	-6.7	23.4	-4.8
2002	12	6	29.8	-1.2	20.5	-6.4	26.2	-3.2
2002	12	7	36.0	2.2	7.6	-13.6	21.6	-5.8
2002	12	8	37.7	3.2	19.9	-6.7	28.4	-2.0
2002	12	9	23.6	-4.7	9.3	-12.6	17.0	-8.3
2002	12	10	28.2	-2.1	7.2	-13.8	16.8	-8.5
2002	12	11	34.8	1.6	13.4	-10.3	26.2	-3.3
2002	12	12	39.4	4.1	32.7	0.4	35.1	1.7
2002	12	13	39.0	3.9	34.0	1.1	36.1	2.3
2002	12	14	42.1	5.6	37.5	3.1	40.3	4.6
2002	12	15	41.0	5.0	36.6	2.6	38.7	3.7
2002	12	16	39.7	4.3	22.1	-5.5	31.7	-0.2
2002	12	17	31.1	-0.5	19.2	-7.1	23.9	-4.5
2002	12	18	38.1	3.4	11.3	-11.5	23.8	-4.6
2002	12	19	45.9	7.7	22.5	-5.3	34.0	1.1
2002	12	20	56.4	13.6	38.4	3.6	47.3	8.5
2002	12	21	38.8	3.8	33.4	0.8	36.6	2.6
2002	12	22	45.5	7.5	28.9	-1.7	36.8	2.7
2002	12	23	39.9	4.4	32.3	0.2	35.7	2.1

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2002	12	24	37.0	2.8	30.7	-0.7	33.1	0.6
2002	12	25	34.2	1.2	28.5	-1.9	30.5	-0.8
2002	12	26	34.3	1.3	26.7	-2.9	30.5	-0.9
2002	12	27	32.2	0.1	24.8	-4.0	29.8	-1.2
2002	12	28	31.0	-0.6	14.7	-9.6	24.4	-4.2
2002	12	29	40.2	4.6	26.3	-3.2	33.7	1.0
2002	12	30	39.3	4.1	20.7	-6.3	30.7	-0.7
2002	12	31	47.2	8.4	34.7	1.5	39.3	4.0
2003	1	1	39.2	4.0	35.2	1.8	36.8	2.7
2003	1	2	35.6	2.0	28.5	-1.9	30.9	-0.6
2003	1	3	33.8	1.0	27.3	-2.6	30.1	-1.1
2003	1	4	33.0	0.6	29.7	-1.3	31.3	-0.4
2003	1	5	31.7	-0.2	27.4	-2.6	29.3	-1.5
2003	1	6	30.6	-0.8	27.2	-2.7	28.6	-1.9
2003	1	7	29.2	-1.6	18.1	-7.7	24.0	-4.5
2003	1	8	38.8	3.8	24.0	-4.4	33.6	0.9
2003	1	9	44.5	6.9	35.8	2.1	41.3	5.2
2003	1	10	42.1	5.6	25.7	-3.5	33.3	0.7
2003	1	11	25.9	-3.4	20.6	-6.3	23.0	-5.0
2003	1	12	28.9	-1.7	19.6	-6.9	23.6	-4.7
2003	1	13	31.5	-0.3	14.5	-9.7	23.3	-4.8
2003	1	14	23.1	-4.9	13.6	-10.2	19.5	-7.0
2003	1	15	23.2	-4.9	16.9	-8.4	20.4	-6.5
2003	1	16	22.2	-5.4	12.8	-10.7	18.0	-7.8
2003	1	17	23.8	-4.6	6.5	-14.2	16.3	-8.7
2003	1	18	18.1	-7.7	-1.2	-18.4	8.2	-13.2
2003	1	19	23.8	-4.6	3.7	-15.7	14.5	-9.7
2003	1	20	25.3	-3.7	15.5	-9.2	22.3	-5.4
2003	1	21	22.0	-5.6	6.6	-14.1	15.0	-9.4
2003	1	22	16.9	-8.4	8.6	-13.0	12.5	-10.8
2003	1	23	15.0	-9.4	4.8	-15.1	8.8	-12.9
2003	1	24	26.0	-3.3	7.2	-13.8	15.1	-9.4
2003	1	25	26.3	-3.2	15.7	-9.1	21.3	-5.9
2003	1	26	30.8	-0.7	20.9	-6.2	24.8	-4.0
2003	1	27	17.6	-8.0	1.5	-16.9	8.8	-12.9
2003	1	28	19.9	-6.7	-2.2	-19.0	9.9	-12.3
2003	1	29	31.0	-0.6	19.6	-6.9	25.1	-3.8
2003	1	30	33.7	0.9	14.2	-9.9	25.4	-3.7
2003	1	31	36.0	2.2	17.5	-8.1	28.4	-2.0
2003	2	1	36.6	2.6	34.0	1.1	35.3	1.8
2003	2	2	38.8	3.8	34.3	1.3	37.1	2.8
2003	2	3	44.5	6.9	30.7	-0.7	37.9	3.3
2003	2	4	42.7	5.9	33.2	0.7	38.8	3.8
2003	2	5	32.8	0.4	21.4	-5.9	26.2	-3.2
2003	2	6	29.3	-1.5	12.7	-10.7	22.1	-5.5

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2003	2	7	32.2	0.1	22.3	-5.4	26.9	-2.9
2003	2	8	25.2	-3.8	12.2	-11.0	19.0	-7.3
2003	2	9	32.5	0.3	10.5	-11.9	22.5	-5.3
2003	2	10	31.9	-0.1	22.7	-5.2	28.2	-2.1
2003	2	11	29.3	-1.5	10.6	-11.9	17.9	-7.8
2003	2	12	26.6	-3.0	12.9	-10.6	19.7	-6.8
2003	2	13	20.4	-6.4	13.9	-10.1	16.8	-8.4
2003	2	14	27.0	-2.8	4.8	-15.1	17.4	-8.1
2003	2	15	21.4	-5.9	9.4	-12.6	17.5	-8.1
2003	2	16	13.4	-10.3	5.3	-14.8	8.8	-12.9
2003	2	17	22.1	-5.5	12.2	-11.0	17.2	-8.2
2003	2	18	31.5	-0.3	20.9	-6.2	25.1	-3.9
2003	2	19	40.7	4.8	27.7	-2.4	33.3	0.7
2003	2	20	43.3	6.3	27.4	-2.6	36.8	2.7
2003	2	21	44.6	7.0	15.9	-8.9	31.5	-0.3
2003	2	22	45.3	7.4	34.9	1.6	39.5	4.2
2003	2	23	44.0	6.7	28.0	-2.2	37.4	3.0
2003	2	24	29.9	-1.2	20.2	-6.6	25.3	-3.7
2003	2	25	31.2	-0.4	16.8	-8.4	23.6	-4.7
2003	2	26	23.4	-4.8	14.1	-9.9	18.3	-7.6
2003	2	27	30.8	-0.7	19.1	-7.2	25.0	-3.9
2003	2	28	34.8	1.6	28.6	-1.9	31.2	-0.4
2003	3	1	35.3	1.8	29.6	-1.3	32.2	0.1
2003	3	2	41.1	5.1	33.0	0.6	36.4	2.4
2003	3	3	34.8	1.6	5.0	-15.0	14.7	-9.6
2003	3	4	36.2	2.3	8.9	-12.8	23.8	-4.5
2003	3	5	43.5	6.4	29.6	-1.3	36.8	2.6
2003	3	6	39.2	4.0	15.7	-9.1	27.0	-2.8
2003	3	7	32.7	0.4	1.1	-17.2	18.7	-7.4
2003	3	8	45.1	7.3	15.9	-8.9	31.7	-0.2
2003	3	9	44.2	6.8	19.8	-6.8	36.5	2.5
2003	3	10	25.5	-3.6	16.7	-8.5	20.3	-6.5
2003	3	11	36.0	2.2	9.9	-12.3	24.2	-4.3
2003	3	12	50.4	10.2	24.3	-4.3	35.9	2.2
2003	3	13	38.2	3.4	27.0	-2.8	34.8	1.6
2003	3	14	35.3	1.8	15.9	-8.9	25.8	-3.4
2003	3	15	53.2	11.8	25.0	-3.9	37.5	3.1
2003	3	16	65.0	18.3	28.3	-2.1	44.5	7.0
2003	3	17	66.5	19.2	37.0	2.8	47.9	8.8
2003	3	18	54.1	12.3	36.7	2.6	45.1	7.3
2003	3	19	46.9	8.3	35.2	1.8	40.6	4.8
2003	3	20	46.3	7.9	32.5	0.3	38.1	3.4
2003	3	21	59.6	15.3	41.4	5.2	47.7	8.7
2003	3	22	55.5	13.1	43.0	6.1	49.1	9.5
2003	3	23	53.5	11.9	38.0	3.3	45.0	7.2

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2003	3	24	59.7	15.4	32.0	0.0	45.5	7.5
2003	3	25	69.3	20.7	34.7	1.5	53.2	11.8
2003	3	26	57.2	14.0	37.5	3.1	47.5	8.6
2003	3	27	59.7	15.4	34.8	1.6	45.0	7.2
2003	3	28	61.1	16.2	40.6	4.8	51.5	10.8
2003	3	29	63.2	17.3	48.6	9.2	56.9	13.8
2003	3	30	47.5	8.6	30.3	-0.9	35.4	1.9
2003	3	31	36.2	2.3	26.1	-3.3	30.6	-0.8
2003	4	1	41.1	5.1	19.8	-6.8	31.3	-0.4
2003	4	2	76.0	24.4	37.4	3.0	54.0	12.2
2003	4	3	68.2	20.1	45.2	7.3	55.6	13.1
2003	4	4	48.5	9.2	37.1	2.8	42.4	5.8
2003	4	5	45.6	7.6	35.7	2.1	40.1	4.5
2003	4	6	43.0	6.1	29.9	-1.2	36.6	2.5
2003	4	7	34.4	1.3	28.6	-1.9	31.3	-0.4
2003	4	8	36.8	2.7	30.0	-1.1	33.3	0.7
2003	4	9	42.1	5.6	34.3	1.3	37.7	3.2
2003	4	10	58.3	14.6	37.3	2.9	46.0	7.8
2003	4	11	45.8	7.7	36.8	2.7	42.8	6.0
2003	4	12	64.6	18.1	43.2	6.2	52.7	11.5
2003	4	13	57.1	13.9	36.7	2.6	47.3	8.5
2003	4	14	68.6	20.3	30.7	-0.7	50.6	10.3
2003	4	15	82.2	27.9	41.0	5.0	64.2	17.9
2003	4	16	83.2	28.4	49.1	9.5	65.1	18.4
2003	4	17	47.3	8.5	35.3	1.8	40.5	4.7
2003	4	18	44.3	6.8	35.1	1.7	39.2	4.0
2003	4	19	67.3	19.6	43.4	6.3	53.3	11.8
2003	4	20	69.8	21.0	37.0	2.8	55.2	12.9
2003	4	21	59.2	15.1	46.5	8.1	54.3	12.4
2003	4	22	58.9	14.9	45.0	7.2	53.7	12.0
2003	4	23	44.0	6.7	39.4	4.1	41.7	5.4
2003	4	24	58.9	14.9	35.1	1.7	47.3	8.5
2003	4	25	67.4	19.7	36.4	2.4	53.0	11.6
2003	4	26	54.9	12.7	51.8	11.0	53.2	11.8
2003	4	27	68.4	20.2	47.5	8.6	57.2	14.0
2003	4	28	78.3	25.7	37.4	3.0	60.0	15.5
2003	4	29	68.9	20.5	47.9	8.8	57.2	14.0
2003	4	30	67.0	19.4	42.0	5.6	54.9	12.7
2003	5	1	78.7	25.9	57.4	14.1	66.5	19.2
2003	5	2	75.1	23.9	53.2	11.8	64.4	18.0
2003	5	3	64.2	17.9	46.6	8.1	54.7	12.6
2003	5	4	67.1	19.5	42.0	5.6	55.0	12.8
2003	5	5	55.9	13.3	41.4	5.2	46.7	8.2
2003	5	6	69.1	20.6	43.2	6.2	54.5	12.5
2003	5	9	61.3	16.3	49.4	9.7	57.7	14.3

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2003	5	10	71.2	21.8	45.0	7.2	58.5	14.7
2003	5	11	74.4	23.6	56.6	13.7	65.9	18.8
2003	5	12	65.6	18.7	50.2	10.1	55.8	13.2
2003	5	13	53.8	12.1	48.4	9.1	51.0	10.6
2003	5	14	59.3	15.2	45.7	7.6	52.7	11.5
2003	5	15	65.8	18.8	40.0	4.4	53.4	11.9
2003	5	16	57.4	14.1	49.0	9.4	54.2	12.4
2003	5	17	55.9	13.3	47.4	8.6	51.4	10.8
2003	5	18	68.6	20.3	43.8	6.6	55.1	12.9
2003	5	19	75.1	23.9	37.8	3.2	57.3	14.1
2003	5	20	75.4	24.1	42.2	5.7	60.4	15.8
2003	5	21	57.2	14.0	48.8	9.3	53.7	12.0
2003	5	22	57.8	14.3	49.1	9.5	53.5	11.9
2003	5	23	62.6	17.0	51.9	11.1	54.9	12.7
2003	5	24	57.7	14.3	53.1	11.7	55.6	13.1
2003	5	25	65.8	18.8	54.0	12.2	59.3	15.2
2003	5	26	59.2	15.1	52.6	11.4	56.8	13.8
2003	5	27	64.3	17.9	51.0	10.6	56.6	13.6
2003	5	28	65.5	18.6	51.4	10.8	55.9	13.3
2003	5	29	70.9	21.6	50.8	10.4	59.9	15.5
2003	5	30	73.1	22.8	51.3	10.7	62.8	17.1
2003	5	31	62.8	17.1	56.3	13.5	59.5	15.3
2003	6	1	59.2	15.1	47.2	8.4	52.3	11.3
2003	6	2	68.9	20.5	43.0	6.1	55.7	13.2
2003	6	3	60.2	15.7	45.5	7.5	52.1	11.1
2003	6	4	59.3	15.2	51.7	10.9	55.2	12.9
2003	6	5	65.5	18.6	55.2	12.9	59.5	15.3
2003	6	6	70.8	21.6	55.2	12.9	61.1	16.2
2003	6	7	60.8	16.0	52.1	11.2	57.3	14.1
2003	6	8	67.8	19.9	57.5	14.2	62.4	16.9
2003	6	9	72.9	22.7	59.9	15.5	66.2	19.0
2003	6	10	78.1	25.6	52.3	11.3	66.7	19.3
2003	6	11	76.2	24.6	67.6	19.8	70.8	21.6
2003	6	12	73.7	23.2	66.3	19.1	69.7	21.0
2003	6	13	80.7	27.1	67.1	19.5	73.8	23.2
2003	6	14	77.9	25.5	66.3	19.1	70.8	21.6
2003	6	15	77.3	25.2	57.4	14.1	67.5	19.7
2003	6	16	75.4	24.1	47.8	8.8	63.0	17.2
2003	6	17	70.8	21.6	50.5	10.3	61.3	16.3
2003	6	18	65.5	18.6	56.3	13.5	60.9	16.0
2003	6	19	76.7	24.8	57.3	14.1	65.4	18.6
2003	6	20	64.2	17.9	58.0	14.4	60.6	15.9
2003	6	21	62.1	16.7	58.0	14.4	59.8	15.4
2003	6	22	68.1	20.1	55.6	13.1	60.9	16.1
2003	6	23	87.4	30.8	54.2	12.3	69.6	20.9

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2003	6	24	89.1	31.7	55.5	13.1	71.7	22.1
2003	6	25	89.2	31.8	57.0	13.9	73.2	22.9
2003	6	26	88.7	31.5	64.4	18.0	76.7	24.9
2003	6	27	82.2	27.9	62.6	17.0	72.6	22.5
2003	6	28	80.9	27.2	55.3	12.9	68.2	20.1
2003	6	29	82.6	28.1	60.0	15.6	71.3	21.8
2003	6	30	78.5	25.8	63.2	17.3	69.9	21.0
2003	7	1	80.9	27.2	56.9	13.8	68.3	20.2
2003	7	2	82.5	28.1	59.2	15.1	71.7	22.1
2003	7	3	85.3	29.6	61.7	16.5	73.8	23.2
2003	7	4	88.6	31.4	64.3	17.9	75.1	23.9
2003	7	5	86.7	30.4	67.4	19.7	77.2	25.1
2003	7	6	87.9	31.1	69.3	20.7	77.7	25.4
2003	7	7	83.6	28.7	68.1	20.1	74.1	23.4
2003	7	8	86.7	30.4	68.6	20.3	76.4	24.7
2003	7	9	74.5	23.6	61.2	16.2	69.3	20.7
2003	7	10	68.3	20.2	58.3	14.6	63.9	17.7
2003	7	11	82.1	27.8	63.5	17.5	71.3	21.8
2003	7	12	78.7	25.9	57.5	14.2	68.7	20.4
2003	7	13	77.5	25.3	56.1	13.4	67.3	19.6
2003	7	14	80.7	27.1	57.6	14.2	69.0	20.5
2003	7	15	82.5	28.1	58.0	14.4	71.2	21.8
2003	7	16	84.7	29.3	67.4	19.7	76.7	24.9
2003	7	17	80.0	26.7	56.5	13.6	68.3	20.2
2003	7	18	74.9	23.8	61.8	16.6	67.4	19.7
2003	7	19	78.0	25.6	56.3	13.5	67.5	19.7
2003	7	20	80.7	27.1	54.2	12.3	68.7	20.4
2003	7	21	85.9	29.9	68.3	20.2	75.0	23.9
2003	7	22	71.5	21.9	63.4	17.4	67.5	19.7
2003	7	23	77.6	25.3	66.7	19.3	70.2	21.2
2003	7	24	75.7	24.3	61.2	16.2	69.0	20.6
2003	7	25	81.7	27.6	57.8	14.3	69.1	20.6
2003	7	26	83.5	28.6	57.7	14.3	71.1	21.7
2003	7	27	84.9	29.4	66.5	19.2	73.5	23.1
2003	7	28	77.0	25.0	66.8	19.3	71.6	22.0
2003	7	29	78.8	26.0	54.8	12.7	67.2	19.5
2003	7	30	82.2	27.9	56.8	13.8	69.7	21.0
2003	7	31	77.1	25.1	56.4	13.6	68.3	20.2
2003	8	1	75.7	24.3	66.0	18.9	71.0	21.7
2003	8	2	84.5	29.2	68.9	20.5	76.3	24.6
2003	8	3	81.8	27.7	68.4	20.2	74.0	23.3
2003	8	4	80.6	27.0	68.8	20.4	73.4	23.0
2003	8	5	79.1	26.2	66.7	19.3	70.4	21.3
2003	8	6	78.6	25.9	64.2	17.9	70.3	21.3
2003	8	7	81.2	27.3	63.2	17.3	72.2	22.3

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2003	8	8	83.8	28.8	65.4	18.6	72.9	22.7
2003	8	9	79.2	26.2	68.8	20.4	73.7	23.2
2003	8	10	84.1	28.9	70.6	21.4	75.7	24.3
2003	8	11	75.2	24.0	68.3	20.2	70.3	21.3
2003	8	12	83.9	28.8	68.3	20.2	74.8	23.8
2003	8	13	86.9	30.5	67.3	19.6	74.8	23.8
2003	8	14	87.1	30.6	67.4	19.7	75.5	24.2
2003	8	15	86.0	30.0	65.0	18.3	73.8	23.2
2003	8	16	81.5	27.5	65.3	18.5	70.8	21.5
2003	8	17	78.2	25.7	62.5	16.9	69.9	21.0
2003	8	18	76.1	24.5	57.0	13.9	65.6	18.7
2003	8	19	82.0	27.8	57.3	14.1	68.5	20.3
2003	8	20	83.6	28.7	59.0	15.0	70.7	21.5
2003	8	21	85.5	29.7	63.0	17.2	73.7	23.2
2003	8	22	85.9	29.9	67.4	19.7	75.3	24.0
2003	8	23	77.1	25.1	58.5	14.7	68.3	20.2
2003	8	24	74.2	23.4	49.5	9.7	62.1	16.7
2003	8	25	83.2	28.4	57.8	14.3	69.7	20.9
2003	8	26	78.9	26.1	62.8	17.1	69.6	20.9
2003	8	27	81.8	27.7	65.8	18.8	72.6	22.6
2003	8	28	78.9	26.1	57.4	14.1	67.9	19.9
2003	8	29	83.2	28.4	58.2	14.6	70.8	21.5
2003	8	30	70.6	21.4	59.1	15.1	67.4	19.7
2003	8	31	73.4	23.0	50.3	10.2	61.4	16.3
2003	9	1	66.5	19.2	61.6	16.4	63.5	17.5
2003	9	2	68.1	20.1	60.9	16.1	63.6	17.5
2003	9	3	68.1	20.1	60.8	16.0	64.2	17.9
2003	9	4	74.9	23.8	64.1	17.8	69.5	20.8
2003	9	5	67.2	19.6	55.1	12.8	62.2	16.8
2003	9	6	72.3	22.4	49.3	9.6	59.4	15.2
2003	9	7	74.9	23.8	51.9	11.1	61.1	16.1
2003	9	8	72.3	22.4	54.8	12.7	62.6	17.0
2003	9	9	73.4	23.0	53.9	12.2	64.2	17.9
2003	9	10	74.1	23.4	49.4	9.7	60.2	15.7
2003	9	11	78.2	25.7	51.9	11.1	64.6	18.1
2003	9	12	70.7	21.5	58.0	14.4	64.3	17.9
2003	9	13	72.2	22.3	61.2	16.2	67.0	19.4
2003	9	14	80.8	27.1	68.4	20.2	74.2	23.5
2003	9	15	71.3	21.8	64.5	18.1	68.5	20.3
2003	9	16	74.1	23.4	55.6	13.1	63.7	17.6
2003	9	17	74.2	23.4	51.3	10.7	61.8	16.5
2003	9	18	69.8	21.0	54.9	12.7	63.0	17.2
2003	9	19	74.1	23.4	64.4	18.0	69.5	20.8
2003	9	20	74.7	23.7	55.3	12.9	64.8	18.2
2003	9	21	70.1	21.2	50.7	10.4	60.0	15.6

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2003	9	22	70.5	21.4	61.6	16.4	66.1	18.9
2003	9	23	70.3	21.3	51.3	10.7	63.9	17.7
2003	9	24	71.0	21.7	46.0	7.8	56.7	13.7
2003	9	25	69.9	21.1	49.8	9.9	59.4	15.2
2003	9	26	69.7	20.9	54.8	12.7	62.1	16.7
2003	9	27	76.8	24.9	64.3	17.9	69.7	20.9
2003	9	28	63.9	17.7	54.7	12.6	59.0	15.0
2003	9	29	58.5	14.7	48.9	9.4	53.8	12.1
2003	9	30	60.0	15.6	42.0	5.6	49.6	9.8
2003	10	1	54.2	12.3	42.1	5.6	48.4	9.1
2003	10	2	50.1	10.1	37.5	3.1	43.6	6.5
2003	10	3	55.3	12.9	32.9	0.5	43.7	6.5
2003	10	4	48.5	9.2	40.8	4.9	46.4	8.0
2003	10	5	53.3	11.8	37.4	3.0	44.0	6.7
2003	10	6	54.9	12.7	33.2	0.7	42.1	5.6
2003	10	7	63.5	17.5	33.8	1.0	46.6	8.1
2003	10	8	70.4	21.3	41.4	5.2	52.6	11.5
2003	10	9	76.9	24.9	44.9	7.2	58.2	14.6
2003	10	10	72.1	22.3	52.2	11.2	59.5	15.3
2003	10	11	76.0	24.4	47.4	8.6	57.9	14.4
2003	10	12	71.9	22.2	43.7	6.5	56.5	13.6
2003	10	13	69.2	20.7	45.2	7.3	56.6	13.7
2003	10	14	64.9	18.3	44.9	7.2	54.8	12.7
2003	10	15	56.2	13.4	46.9	8.3	53.0	11.7
2003	10	16	58.6	14.8	38.5	3.6	49.1	9.5
2003	10	17	50.3	10.2	38.5	3.6	44.1	6.7
2003	10	18	52.6	11.4	39.0	3.9	44.3	6.8
2003	10	19	54.9	12.7	40.2	4.6	47.7	8.7
2003	10	20	59.8	15.4	33.5	0.8	45.9	7.7
2003	10	21	70.1	21.2	46.2	7.9	58.4	14.7
2003	10	22	54.1	12.3	39.0	3.9	45.4	7.5
2003	10	23	39.5	4.2	34.9	1.6	37.9	3.3
2003	10	24	50.3	10.2	32.5	0.3	39.5	4.2
2003	10	25	57.5	14.2	30.5	-0.8	45.1	7.3
2003	10	26	65.2	18.4	47.6	8.7	60.0	15.5
2003	10	27	61.3	16.3	42.7	5.9	54.5	12.5
2003	10	28	55.3	12.9	34.7	1.5	44.7	7.0
2003	10	29	48.5	9.2	44.7	7.1	46.3	7.9
2003	10	30	58.6	14.8	33.9	1.1	45.0	7.2
2003	10	31	69.2	20.7	37.7	3.2	52.0	11.1
2003	11	1	71.8	22.1	45.6	7.6	57.5	14.2
2003	11	2	63.0	17.2	50.5	10.3	57.0	13.9
2003	11	3	73.7	23.2	51.3	10.7	57.7	14.3
2003	11	7	52.9	11.6	43.5	6.4	47.8	8.8
2003	11	8	45.5	7.5	27.5	-2.5	36.1	2.3

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2003	11	9	39.0	3.9	19.6	-6.9	28.6	-1.9
2003	11	10	45.7	7.6	20.1	-6.6	31.3	-0.4
2003	11	11	43.1	6.2	28.7	-1.8	36.9	2.7
2003	11	12	55.0	12.8	42.7	5.9	47.4	8.6
2003	11	13	57.0	13.9	34.9	1.6	44.0	6.7
2003	11	14	42.3	5.7	33.8	1.0	37.6	3.1
2003	11	15	48.0	8.9	32.0	0.0	41.3	5.2
2003	11	16	48.9	9.4	31.8	-0.1	40.8	4.9
2003	11	17	53.5	11.9	42.9	6.1	46.6	8.1
2003	11	18	54.4	12.4	40.8	4.9	47.1	8.4
2003	11	19	68.2	20.1	49.4	9.7	58.5	14.7
2003	11	20	48.4	9.1	33.9	1.1	44.9	7.2
2003	11	21	60.6	15.9	30.4	-0.9	42.5	5.8
2003	11	22	61.1	16.2	36.2	2.3	45.1	7.3
2003	11	23	58.8	14.9	36.2	2.3	46.6	8.1
2003	11	24	59.9	15.5	32.8	0.4	48.5	9.1
2003	11	25	36.4	2.4	29.0	-1.7	32.6	0.3
2003	11	26	43.3	6.3	29.5	-1.4	35.0	1.7
2003	11	27	53.6	12.0	30.9	-0.6	42.0	5.6
2003	11	28	60.7	15.9	39.5	4.2	49.0	9.4
2003	11	29	41.2	5.1	34.7	1.5	38.2	3.5
2003	11	30	47.6	8.7	33.0	0.6	38.8	3.8
2003	12	1	46.4	8.0	29.7	-1.3	39.3	4.0
2003	12	2	31.7	-0.2	21.5	-5.8	28.4	-2.0
2003	12	3	31.0	-0.6	19.7	-6.8	23.7	-4.6
2003	12	4	34.2	1.2	15.9	-8.9	23.8	-4.6
2003	12	5	32.5	0.3	24.0	-4.4	29.2	-1.6
2003	12	6	27.5	-2.5	22.7	-5.2	24.9	-3.9
2003	12	7	28.3	-2.1	22.2	-5.4	24.5	-4.2
2003	12	8	30.7	-0.7	15.3	-9.3	23.8	-4.6
2003	12	9	35.3	1.8	24.4	-4.2	29.9	-1.2
2003	12	10	50.2	10.1	34.2	1.2	40.4	4.7
2003	12	11	55.6	13.1	37.7	3.2	48.6	9.2
2003	12	12	37.3	2.9	29.4	-1.4	34.1	1.1
2003	12	13	30.2	-1.0	24.9	-3.9	27.0	-2.8
2003	12	14	30.3	-0.9	22.9	-5.1	26.6	-3.0
2003	12	15	36.3	2.4	24.4	-4.2	31.1	-0.5
2003	12	16	44.7	7.1	21.5	-5.8	33.0	0.6
2003	12	17	44.6	7.0	27.6	-2.4	35.0	1.7
2003	12	18	30.9	-0.6	27.7	-2.4	28.9	-1.7
2003	12	19	31.9	-0.1	27.9	-2.3	29.5	-1.4
2003	12	20	31.7	-0.2	24.8	-4.0	27.9	-2.3
2003	12	21	33.5	0.8	22.7	-5.2	27.5	-2.5
2003	12	22	40.2	4.6	22.0	-5.6	30.9	-0.6
2003	12	23	54.5	12.5	36.2	2.3	44.6	7.0

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2003	12	24	55.9	13.3	37.2	2.9	46.9	8.3
2003	12	25	36.5	2.5	29.7	-1.3	32.8	0.4
2003	12	26	40.2	4.6	29.3	-1.5	33.4	0.8
2003	12	27	45.5	7.5	26.1	-3.3	33.8	1.0
2003	12	28	47.2	8.4	23.0	-5.0	31.9	-0.1
2003	12	29	50.5	10.3	26.2	-3.2	34.9	1.6
2003	12	30	42.5	5.8	30.6	-0.8	37.0	2.8
2003	12	31	44.4	6.9	30.0	-1.1	36.9	2.7
2004	1	1	43.3	6.3	30.9	-0.6	38.1	3.4
2004	1	2	42.2	5.7	31.7	-0.2	37.7	3.2
2004	1	3	48.9	9.4	40.3	4.6	46.0	7.8
2004	1	4	48.2	9.0	34.3	1.3	41.9	5.5
2004	1	5	39.8	4.3	34.2	1.2	37.4	3.0
2004	1	6	35.0	1.7	16.4	-8.7	28.0	-2.2
2004	1	7	20.9	-6.2	13.9	-10.1	17.6	-8.0
2004	1	8	27.6	-2.4	18.9	-7.3	23.7	-4.6
2004	1	9	26.3	-3.2	-0.1	-17.8	11.9	-11.2
2004	1	10	10.7	-11.8	-3.6	-19.8	2.9	-16.2
2004	1	11	26.8	-2.9	1.5	-16.9	13.9	-10.0
2004	1	12	37.5	3.1	24.4	-4.2	28.5	-1.9
2004	1	13	36.5	2.5	16.1	-8.8	31.3	-0.4
2004	1	14	15.1	-9.4	5.3	-14.8	10.3	-12.1
2004	1	15	12.1	-11.1	-0.5	-18.1	8.1	-13.3
2004	1	16	24.0	-4.4	-1.5	-18.6	10.8	-11.8
2004	1	17	21.5	-5.8	7.9	-13.4	16.5	-8.6
2004	1	18	31.4	-0.3	20.1	-6.6	25.7	-3.5
2004	1	19	24.7	-4.1	18.5	-7.5	21.5	-5.8
2004	1	20	26.8	-2.9	17.0	-8.3	21.2	-6.0
2004	1	21	22.0	-5.6	12.8	-10.7	17.4	-8.1
2004	1	22	35.3	1.8	13.8	-10.1	23.1	-5.0
2004	1	23	14.4	-9.8	7.3	-13.7	10.6	-11.9
2004	1	24	18.7	-7.4	7.9	-13.4	12.3	-10.9
2004	1	25	13.6	-10.2	0.3	-17.6	8.3	-13.2
2004	1	26	18.6	-7.4	11.8	-11.2	15.1	-9.4
2004	1	27	24.9	-3.9	16.6	-8.6	20.5	-6.4
2004	1	28	25.7	-3.5	18.5	-7.5	22.3	-5.4
2004	1	29	23.4	-4.8	14.7	-9.6	19.6	-6.9
2004	1	30	19.1	-7.2	9.3	-12.6	14.2	-9.9
2004	1	31	21.5	-5.8	9.9	-12.3	15.5	-9.2
2004	2	1	32.1	0.1	12.6	-10.8	20.9	-6.2
2004	2	2	34.6	1.4	15.2	-9.3	24.3	-4.3
2004	2	3	37.8	3.2	26.6	-3.0	32.3	0.2
2004	2	4	36.5	2.5	28.0	-2.2	33.9	1.0
2004	2	5	29.0	-1.7	17.0	-8.3	24.9	-3.9
2004	2	6	39.0	3.9	26.7	-2.9	32.3	0.2

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2004	2	7	37.3	2.9	25.7	-3.5	33.3	0.7
2004	2	8	28.5	-1.9	14.0	-10.0	21.7	-5.7
2004	2	9	42.8	6.0	10.1	-12.2	26.9	-2.8
2004	2	10	41.7	5.4	30.4	-0.9	36.6	2.6
2004	2	11	35.7	2.1	23.2	-4.9	30.3	-0.9
2004	2	12	39.1	3.9	17.5	-8.1	27.8	-2.3
2004	2	13	36.3	2.4	30.0	-1.1	33.3	0.7
2004	2	14	33.7	0.9	26.6	-3.0	29.6	-1.3
2004	2	15	31.2	-0.4	12.5	-10.8	20.4	-6.5
2004	2	16	26.0	-3.3	5.0	-15.0	14.8	-9.6
2004	2	17	32.7	0.4	9.1	-12.7	21.4	-5.9
2004	2	18	36.7	2.6	12.1	-11.1	25.2	-3.8
2004	2	19	44.0	6.7	26.8	-2.9	35.0	1.7
2004	2	20	44.2	6.8	25.4	-3.7	34.7	1.5
2004	2	21	42.6	5.9	32.8	0.4	37.1	2.8
2004	2	22	40.3	4.6	32.7	0.4	35.4	1.9
2004	2	23	41.0	5.0	23.4	-4.8	31.6	-0.2
2004	2	24	31.6	-0.2	25.8	-3.4	30.5	-0.9
2004	2	25	36.7	2.6	11.6	-11.3	25.8	-3.4
2004	2	26	39.2	4.0	16.6	-8.6	28.6	-1.9
2004	2	27	43.5	6.4	24.9	-3.9	33.4	0.8
2004	2	28	51.2	10.7	18.5	-7.5	33.0	0.6
2004	2	29	54.3	12.4	23.0	-5.0	36.8	2.7
2004	3	1	55.1	12.8	26.8	-2.9	39.6	4.2
2004	3	2	63.9	17.7	36.4	2.4	47.8	8.8
2004	3	3	52.3	11.3	34.0	1.1	45.3	7.4
2004	3	4	50.5	10.3	38.0	3.3	42.8	6.0
2004	3	5	51.0	10.6	41.9	5.5	46.9	8.3
2004	3	6	56.3	13.5	42.3	5.7	50.3	10.2
2004	3	7	50.5	10.3	36.7	2.6	42.9	6.1
2004	3	8	41.8	5.4	35.5	1.9	37.9	3.3
2004	3	9	38.0	3.3	29.5	-1.4	33.2	0.7
2004	3	10	42.5	5.8	27.6	-2.4	34.6	1.5
2004	3	11	49.2	9.6	23.3	-4.8	36.6	2.6
2004	3	12	40.3	4.6	30.3	-0.9	34.6	1.5
2004	3	13	38.8	3.8	25.7	-3.5	31.7	-0.2
2004	3	14	43.2	6.2	21.6	-5.8	33.9	1.0
2004	3	15	52.0	11.1	36.6	2.6	43.9	6.6
2004	3	16	34.9	1.6	27.7	-2.4	30.2	-1.0
2004	3	17	33.2	0.7	27.1	-2.7	29.6	-1.3
2004	3	18	37.5	3.1	25.2	-3.8	31.8	-0.1
2004	3	19	37.9	3.3	27.1	-2.7	33.5	0.8
2004	3	20	46.7	8.2	20.4	-6.4	34.6	1.4
2004	3	21	40.7	4.8	28.5	-1.9	37.7	3.2
2004	3	22	30.8	-0.7	20.3	-6.5	26.0	-3.3

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2004	3	23	46.0	7.8	14.5	-9.7	31.0	-0.6
2004	3	24	58.0	14.4	26.3	-3.2	43.1	6.2
2004	3	25	57.7	14.3	43.2	6.2	49.7	9.8
2004	3	26	70.3	21.3	39.8	4.3	55.9	13.3
2004	3	27	63.6	17.6	50.9	10.5	57.1	14.0
2004	3	28	66.2	19.0	47.0	8.3	54.0	12.2
2004	3	29	57.6	14.2	38.7	3.7	48.1	8.9
2004	3	30	43.9	6.6	33.0	0.6	39.7	4.3
2004	3	31	52.0	11.1	40.3	4.6	45.0	7.2
2004	4	1	52.9	11.6	44.1	6.7	47.4	8.6
2004	4	2	48.4	9.1	43.4	6.3	46.1	7.8
2004	4	3	48.6	9.2	42.3	5.7	45.1	7.3
2004	4	4	41.6	5.3	29.4	-1.4	37.9	3.3
2004	4	5	38.7	3.7	25.4	-3.7	31.8	-0.1
2004	4	6	52.9	11.6	29.8	-1.2	41.3	5.2
2004	4	7	61.9	16.6	43.1	6.2	50.7	10.4
2004	4	8	48.8	9.3	31.4	-0.3	40.0	4.4
2004	4	9	56.3	13.5	37.7	3.2	46.5	8.0
2004	4	10	59.4	15.2	30.5	-0.8	46.4	8.0
2004	4	11	46.1	7.8	37.2	2.9	42.9	6.1
2004	4	12	54.6	12.6	40.2	4.6	45.0	7.2
2004	4	13	54.7	12.6	41.4	5.2	46.9	8.3
2004	4	14	49.2	9.6	43.2	6.2	45.6	7.5
2004	4	15	53.7	12.1	42.1	5.6	47.2	8.4
2004	4	16	63.1	17.3	29.2	-1.6	46.5	8.1
2004	4	17	78.6	25.9	42.5	5.8	60.9	16.0
2004	4	18	82.5	28.1	50.9	10.5	66.8	19.3
2004	4	19	86.1	30.1	49.3	9.6	69.7	20.9
2004	4	20	70.1	21.2	50.2	10.1	57.9	14.4
2004	4	21	68.5	20.3	47.8	8.8	57.5	14.1
2004	4	22	73.7	23.2	52.5	11.4	61.7	16.5
2004	4	23	55.4	13.0	51.2	10.7	53.1	11.7
2004	4	24	63.9	17.7	50.3	10.2	56.0	13.3
2004	4	25	50.0	10.0	43.5	6.4	46.3	7.9
2004	4	26	55.4	13.0	46.7	8.2	51.1	10.6
2004	4	27	58.3	14.6	39.8	4.3	49.7	9.8
2004	4	28	55.9	13.3	35.2	1.8	45.2	7.3
2004	4	29	79.1	26.2	39.8	4.3	60.9	16.0
2004	4	30	77.4	25.2	50.8	10.4	66.3	19.1
2004	5	1	79.2	26.2	57.5	14.2	68.9	20.5
2004	5	2	75.1	23.9	59.5	15.3	68.3	20.2
2004	5	7	75.1	23.9	52.7	11.5	63.5	17.5
2004	5	8	65.8	18.8	47.8	8.8	55.7	13.2
2004	5	9	71.6	22.0	47.2	8.4	58.6	14.8
2004	5	10	82.8	28.2	55.0	12.8	69.0	20.6

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2004	5	11	83.2	28.4	60.0	15.6	71.7	22.0
2004	5	12	84.7	29.3	61.4	16.3	71.6	22.0
2004	5	13	87.4	30.8	61.1	16.2	75.1	23.9
2004	5	14	80.3	26.8	65.4	18.6	71.7	22.0
2004	5	15	82.4	28.0	61.2	16.2	68.2	20.1
2004	5	16	71.8	22.1	56.6	13.7	63.1	17.3
2004	5	17	78.0	25.6	53.5	11.9	66.1	19.0
2004	5	18	78.9	26.1	64.3	17.9	70.6	21.5
2004	5	19	67.7	19.8	55.8	13.2	63.4	17.5
2004	5	20	68.4	20.2	52.6	11.4	61.2	16.2
2004	5	21	78.7	25.9	64.1	17.8	69.7	20.9
2004	5	22	81.6	27.6	64.2	17.9	72.1	22.3
2004	5	23	83.4	28.6	66.9	19.4	74.4	23.6
2004	5	24	84.5	29.2	65.4	18.6	75.6	24.2
2004	5	25	75.4	24.1	58.4	14.7	67.1	19.5
2004	5	26	71.2	21.8	62.2	16.8	65.9	18.8
2004	5	27	74.2	23.4	58.8	14.9	66.3	19.1
2004	5	28	73.6	23.1	60.1	15.6	66.4	19.1
2004	5	29	62.6	17.0	47.1	8.4	55.3	12.9
2004	5	30	71.4	21.9	40.6	4.8	57.0	13.9
2004	5	31	61.1	16.2	53.5	11.9	56.4	13.6
2004	6	1	72.2	22.3	55.8	13.2	62.0	16.6
2004	6	2	73.1	22.8	53.0	11.7	61.8	16.5
2004	6	3	72.7	22.6	56.8	13.8	64.1	17.8
2004	6	4	70.2	21.2	47.2	8.4	59.9	15.5
2004	6	5	58.7	14.8	52.4	11.3	54.5	12.5
2004	6	6	61.0	16.1	51.7	10.9	55.7	13.2
2004	6	7	79.5	26.4	52.3	11.3	64.9	18.3
2004	6	8	84.2	29.0	56.8	13.8	70.8	21.6
2004	6	9	88.4	31.3	61.9	16.6	75.3	24.1
2004	6	10	76.3	24.6	60.7	15.9	67.8	19.9
2004	6	11	63.9	17.7	55.5	13.1	60.0	15.6
2004	6	12	73.5	23.1	46.4	8.0	60.5	15.8
2004	6	13	65.8	18.8	52.0	11.1	61.2	16.2
2004	6	14	82.2	27.9	61.0	16.1	70.3	21.3
2004	6	15	84.2	29.0	65.8	18.8	72.6	22.6
2004	6	16	84.9	29.4	63.8	17.7	74.0	23.3
2004	6	17	83.0	28.3	68.5	20.3	74.1	23.4
2004	6	18	84.1	28.9	68.0	20.0	74.0	23.3
2004	6	19	74.6	23.7	60.7	15.9	68.8	20.4
2004	6	20	68.8	20.4	50.5	10.3	59.8	15.4
2004	6	21	76.6	24.8	48.1	8.9	63.2	17.4
2004	6	22	76.3	24.6	63.2	17.3	69.0	20.5
2004	6	23	78.5	25.8	59.1	15.1	68.5	20.3
2004	6	24	82.4	28.0	56.7	13.7	69.9	21.1

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2004	6	25	71.7	22.1	61.6	16.4	66.9	19.4
2004	6	26	72.7	22.6	61.3	16.3	66.4	19.1
2004	6	27	73.7	23.2	48.5	9.2	62.6	17.0
2004	6	28	70.1	21.2	51.0	10.6	60.9	16.1
2004	6	29	74.0	23.3	53.9	12.2	64.1	17.9
2004	6	30	79.5	26.4	54.2	12.3	67.0	19.5
2004	7	1	81.3	27.4	56.8	13.8	70.0	21.1
2004	7	2	81.9	27.7	59.0	15.0	68.8	20.5
2004	7	3	80.9	27.2	55.9	13.3	68.8	20.4
2004	7	4	80.5	26.9	62.2	16.8	72.6	22.5
2004	7	5	87.0	30.6	71.6	22.0	78.3	25.7
2004	7	6	80.0	26.7	63.3	17.4	70.8	21.6
2004	7	7	82.1	27.8	60.3	15.7	71.4	21.9
2004	7	8	79.8	26.6	67.6	19.8	72.5	22.5
2004	7	9	73.4	23.0	62.0	16.7	68.2	20.1
2004	7	10	80.2	26.8	55.8	13.2	67.5	19.7
2004	7	11	84.8	29.3	60.2	15.7	71.9	22.2
2004	7	12	71.1	21.7	66.2	19.0	68.1	20.0
2004	7	13	76.5	24.7	64.9	18.3	69.7	20.9
2004	7	14	72.4	22.4	63.9	17.7	66.8	19.3
2004	7	15	74.0	23.3	62.2	16.8	67.1	19.5
2004	7	16	72.4	22.4	62.5	16.9	66.2	19.0
2004	7	17	80.7	27.1	60.2	15.7	69.5	20.8
2004	7	18	70.0	21.1	62.4	16.9	66.1	19.0
2004	7	19	78.9	26.1	62.2	16.8	67.9	20.0
2004	7	20	79.4	26.3	62.7	17.1	68.9	20.5
2004	7	21	83.6	28.7	59.6	15.3	70.9	21.6
2004	7	22	85.5	29.7	64.0	17.8	74.0	23.3
2004	7	23	80.3	26.8	68.9	20.5	72.4	22.4
2004	7	24	74.7	23.7	61.4	16.3	68.4	20.2
2004	7	25	74.6	23.7	60.8	16.0	67.8	19.9
2004	7	26	74.5	23.6	60.9	16.1	68.3	20.2
2004	7	27	68.0	20.0	64.2	17.9	65.8	18.8
2004	7	28	78.9	26.1	63.4	17.4	68.0	20.0
2004	7	29	80.4	26.9	62.2	16.8	69.0	20.5
2004	7	30	84.2	29.0	62.2	16.8	73.3	23.0
2004	7	31	84.9	29.4	69.3	20.7	75.9	24.4
2004	8	1	84.7	29.3	69.1	20.6	75.0	23.9
2004	8	2	84.7	29.3	66.2	19.0	74.7	23.7
2004	8	3	86.7	30.4	65.3	18.5	74.5	23.6
2004	8	4	81.4	27.4	65.1	18.4	70.8	21.5
2004	8	5	73.2	22.9	59.6	15.3	66.4	19.1
2004	8	6	65.4	18.6	48.9	9.4	58.2	14.6
2004	8	7	64.1	17.8	53.3	11.8	58.5	14.7
2004	8	8	76.9	24.9	53.9	12.2	63.6	17.5

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2004	8	9	79.9	26.6	54.2	12.3	66.6	19.2
2004	8	10	82.3	27.9	59.4	15.2	71.1	21.7
2004	8	11	81.0	27.2	64.0	17.8	72.0	22.2
2004	8	12	72.4	22.4	64.9	18.3	68.4	20.2
2004	8	13	74.2	23.4	63.6	17.6	67.0	19.4
2004	8	14	73.6	23.1	61.0	16.1	66.7	19.3
2004	8	15	77.5	25.3	62.3	16.8	68.1	20.1
2004	8	16	75.2	24.0	59.6	15.3	65.8	18.8
2004	8	17	77.8	25.4	55.8	13.2	65.3	18.5
2004	8	18	79.7	26.5	60.1	15.6	68.7	20.4
2004	8	19	77.6	25.3	63.5	17.5	70.1	21.2
2004	8	20	85.0	29.4	64.3	17.9	71.7	22.1
2004	8	21	69.8	21.0	58.0	14.4	65.7	18.7
2004	8	22	72.3	22.4	49.9	9.9	60.0	15.6
2004	8	23	79.6	26.4	52.5	11.4	65.2	18.5
2004	8	24	78.1	25.6	62.5	16.9	69.8	21.0
2004	8	25	76.8	24.9	66.8	19.3	71.0	21.7
2004	8	26	78.6	25.9	60.3	15.7	69.1	20.6
2004	8	27	81.6	27.6	68.6	20.3	74.1	23.4
2004	8	28	86.1	30.1	66.7	19.3	73.3	22.9
2004	8	29	85.5	29.7	66.7	19.3	75.7	24.3
2004	8	30	82.0	27.8	68.4	20.2	74.1	23.4
2004	8	31	76.8	24.9	60.1	15.6	69.9	21.1
2004	9	1	77.6	25.3	56.1	13.4	65.1	18.4
2004	9	2	76.0	24.4	53.4	11.9	63.6	17.6
2004	9	3	78.3	25.7	56.1	13.4	66.4	19.1
2004	9	4	80.7	27.1	56.8	13.8	67.7	19.8
2004	9	5	69.5	20.8	61.1	16.2	64.9	18.3
2004	9	6	74.3	23.5	55.6	13.1	65.6	18.7
2004	9	7	80.2	26.8	63.2	17.3	71.5	21.9
2004	9	8	71.6	22.0	67.0	19.4	68.9	20.5
2004	9	9	79.7	26.5	66.3	19.1	73.3	22.9
2004	9	10	77.0	25.0	60.0	15.6	67.4	19.7
2004	9	11	74.7	23.7	55.5	13.1	63.9	17.7
2004	9	12	75.6	24.2	55.7	13.2	64.1	17.8
2004	9	13	79.4	26.3	57.0	13.9	65.1	18.4
2004	9	14	71.5	21.9	58.4	14.7	65.0	18.3
2004	9	15	72.2	22.3	58.1	14.5	64.6	18.1
2004	9	16	73.0	22.8	63.3	17.4	67.1	19.5
2004	9	17	69.0	20.6	61.2	16.2	64.2	17.9
2004	9	18	62.4	16.9	53.4	11.9	58.8	14.9
2004	9	19	63.1	17.3	46.6	8.1	54.5	12.5
2004	9	20	68.8	20.4	42.5	5.8	53.8	12.1
2004	9	21	75.2	24.0	47.8	8.8	58.7	14.8
2004	9	22	80.0	26.7	48.0	8.9	60.8	16.0

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2004	9	23	79.9	26.6	52.7	11.5	64.7	18.2
2004	9	24	80.0	26.7	58.0	14.4	67.0	19.5
2004	9	25	76.7	24.8	56.1	13.4	65.6	18.7
2004	9	26	70.7	21.5	54.5	12.5	64.2	17.9
2004	9	27	72.1	22.3	50.8	10.4	60.4	15.8
2004	9	28	64.1	17.8	61.5	16.4	63.4	17.4
2004	9	29	67.2	19.6	59.5	15.3	62.5	16.9
2004	9	30	66.5	19.2	50.0	10.0	59.7	15.4
2004	10	1	70.1	21.2	44.4	6.9	54.1	12.3
2004	10	2	65.6	18.7	51.9	11.1	61.0	16.1
2004	10	3	64.3	17.9	43.1	6.2	52.4	11.3
2004	10	4	69.2	20.7	40.9	4.9	53.6	12.0
2004	10	5	55.9	13.3	39.1	3.9	48.2	9.0
2004	10	6	62.3	16.8	34.9	1.6	46.1	7.8
2004	10	7	72.7	22.6	39.7	4.3	53.8	12.1
2004	10	8	75.3	24.1	46.9	8.3	58.4	14.7
2004	10	9	69.7	20.9	48.6	9.2	58.2	14.6
2004	10	10	56.9	13.8	45.8	7.7	51.3	10.7
2004	10	11	52.9	11.6	45.3	7.4	48.9	9.4
2004	10	12	62.2	16.8	42.2	5.7	50.0	10.0
2004	10	13	61.5	16.4	37.3	2.9	48.7	9.3
2004	10	14	53.3	11.8	49.4	9.7	51.2	10.7
2004	10	15	58.5	14.7	47.9	8.8	53.6	12.0
2004	10	16	55.3	12.9	40.7	4.8	47.3	8.5
2004	10	17	48.8	9.3	37.9	3.3	43.6	6.5
2004	10	18	54.8	12.7	42.7	5.9	47.8	8.8
2004	10	19	48.8	9.3	45.7	7.6	47.3	8.5
2004	10	20	51.2	10.7	46.1	7.8	48.5	9.2
2004	10	21	49.0	9.4	44.2	6.8	47.0	8.3
2004	10	22	54.5	12.5	40.0	4.4	47.3	8.5
2004	10	23	55.6	13.1	34.0	1.1	43.8	6.6
2004	10	24	49.8	9.9	37.9	3.3	45.0	7.2
2004	10	25	52.1	11.2	45.6	7.6	48.4	9.1
2004	10	26	54.5	12.5	44.3	6.8	49.9	9.9
2004	10	27	58.4	14.7	39.9	4.4	47.8	8.8
2004	10	28	60.5	15.8	38.6	3.7	49.0	9.5
2004	10	29	53.7	12.1	39.4	4.1	47.6	8.7
2004	10	30	65.7	18.7	51.9	11.1	58.1	14.5
2004	10	31	67.2	19.6	52.8	11.6	61.4	16.3
2004	11	1	57.0	13.9	46.2	7.9	51.4	10.8
2004	11	2	63.6	17.6	45.5	7.5	53.8	12.1
2004	11	4	44.7	7.1	30.9	-0.6	37.8	3.2
2004	11	5	50.6	10.3	39.0	3.9	46.0	7.8
2004	11	6	57.9	14.4	34.8	1.6	46.0	7.8
2004	11	7	66.7	19.3	34.9	1.6	50.9	10.5

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2004	11	8	54.3	12.4	38.6	3.7	42.8	6.0
2004	11	9	38.9	3.8	27.7	-2.4	33.6	0.9
2004	11	10	45.1	7.3	23.0	-5.0	34.2	1.2
2004	11	11	56.9	13.8	37.4	3.0	45.2	7.3
2004	11	12	41.8	5.4	35.3	1.8	37.0	2.8
2004	11	13	39.4	4.1	30.7	-0.7	35.1	1.7
2004	11	14	47.5	8.6	22.1	-5.5	33.2	0.7
2004	11	15	53.0	11.7	23.4	-4.8	35.3	1.8
2004	11	16	53.7	12.1	29.1	-1.6	39.2	4.0
2004	11	17	50.6	10.3	30.4	-0.9	40.3	4.6
2004	11	18	52.3	11.3	42.4	5.8	47.2	8.4
2004	11	19	56.2	13.4	46.9	8.3	50.5	10.3
2004	11	20	48.9	9.4	45.0	7.2	47.2	8.4
2004	11	21	55.9	13.3	46.5	8.1	49.4	9.7
2004	11	22	48.1	8.9	40.3	4.6	44.0	6.7
2004	11	23	50.9	10.5	34.0	1.1	43.4	6.4
2004	11	24	61.3	16.3	49.5	9.7	53.8	12.1
2004	11	25	63.3	17.4	33.8	1.0	50.4	10.2
2004	11	26	41.1	5.1	29.3	-1.5	34.7	1.5
2004	11	27	49.3	9.6	34.8	1.6	43.5	6.4
2004	11	28	54.2	12.3	44.2	6.8	49.9	9.9
2004	11	29	43.5	6.4	32.7	0.4	38.8	3.8
2004	11	30	50.2	10.1	33.3	0.7	40.8	4.9
2004	12	1	48.9	9.4	39.2	4.0	44.2	6.8
2004	12	2	41.1	5.1	29.0	-1.7	36.6	2.5
2004	12	3	42.2	5.7	26.1	-3.3	33.1	0.6
2004	12	4	42.6	5.9	21.7	-5.7	33.2	0.6
2004	12	5	51.5	10.8	34.8	1.6	42.2	5.7
2004	12	6	40.5	4.7	31.7	-0.2	36.1	2.3
2004	12	7	49.6	9.8	39.0	3.9	42.5	5.8
2004	12	8	53.8	12.1	37.7	3.2	48.3	9.1
2004	12	9	44.5	6.9	31.3	-0.4	37.9	3.3
2004	12	10	45.5	7.5	41.2	5.1	43.7	6.5
2004	12	11	46.8	8.2	39.3	4.1	42.4	5.8
2004	12	12	40.2	4.6	33.2	0.7	37.1	2.9
2004	12	13	39.8	4.3	31.1	-0.5	36.4	2.4
2004	12	14	33.1	0.6	23.6	-4.7	28.8	-1.8
2004	12	15	31.5	-0.3	18.9	-7.3	25.0	-3.9
2004	12	16	40.3	4.6	18.5	-7.5	28.9	-1.7
2004	12	17	37.8	3.2	25.5	-3.6	35.0	1.6
2004	12	18	38.2	3.4	18.6	-7.4	28.1	-2.1
2004	12	19	40.8	4.9	12.9	-10.6	27.6	-2.4
2004	12	20	11.6	-11.3	0.0	-17.8	5.9	-14.5
2004	12	21	31.8	-0.1	5.0	-15.0	17.8	-7.9
2004	12	22	48.8	9.3	18.1	-7.7	31.3	-0.4

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2004	12	23	57.6	14.2	34.5	1.4	48.3	9.1
2004	12	24	33.5	0.8	22.0	-5.6	27.9	-2.3
2004	12	25	23.4	-4.8	14.0	-10.0	19.5	-7.0
2004	12	26	27.4	-2.6	12.3	-10.9	19.8	-6.8
2004	12	27	26.7	-2.9	15.3	-9.3	19.5	-7.0
2004	12	28	28.3	-2.1	8.3	-13.2	18.3	-7.6
2004	12	29	36.2	2.3	27.6	-2.4	32.0	0.0
2004	12	30	40.9	4.9	32.6	0.3	36.9	2.7
2004	12	31	50.9	10.5	40.5	4.7	45.7	7.6
2005	1	1	56.2	13.4	36.2	2.3	46.2	7.9
2005	1	2	40.7	4.8	32.1	0.1	37.0	2.8
2005	1	3	44.3	6.8	39.0	3.9	41.7	5.4
2005	1	4	46.0	7.8	39.1	3.9	43.2	6.2
2005	1	5	38.5	3.6	29.4	-1.4	34.0	1.1
2005	1	6	35.5	1.9	30.1	-1.1	33.6	0.9
2005	1	7	37.2	2.9	29.8	-1.2	33.1	0.6
2005	1	8	38.4	3.6	30.7	-0.7	34.5	1.4
2005	1	9	35.3	1.8	30.4	-0.9	32.5	0.3
2005	1	10	42.1	5.6	33.3	0.7	37.2	2.9
2005	1	11	35.4	1.9	29.8	-1.2	32.2	0.1
2005	1	12	40.2	4.6	36.2	2.3	37.9	3.3
2005	1	13	64.9	18.3	37.7	3.2	50.1	10.1
2005	1	14	62.8	17.1	30.4	-0.9	41.9	5.5
2005	1	15	29.0	-1.7	20.4	-6.4	24.3	-4.3
2005	1	16	27.0	-2.8	20.3	-6.5	23.4	-4.8
2005	1	17	23.4	-4.8	13.5	-10.3	19.4	-7.0
2005	1	18	12.9	-10.6	5.0	-15.0	8.6	-13.0
2005	1	19	18.8	-7.3	5.1	-14.9	12.8	-10.6
2005	1	20	24.5	-4.2	15.4	-9.2	20.6	-6.4
2005	1	21	13.7	-10.2	1.7	-16.8	8.6	-13.0
2005	1	22	16.9	-8.4	-1.9	-18.8	7.4	-13.7
2005	1	23	15.2	-9.3	6.1	-14.4	11.2	-11.5
2005	1	24	17.3	-8.2	-0.9	-18.3	9.0	-12.8
2005	1	25	30.2	-1.0	17.0	-8.3	24.9	-3.9
2005	1	26	35.0	1.7	14.1	-9.9	28.1	-2.2
2005	1	27	15.0	-9.4	3.8	-15.7	9.1	-12.7
2005	1	28	20.0	-6.7	-7.0	-21.7	6.2	-14.3
2005	1	29	27.7	-2.4	-1.6	-18.7	13.8	-10.1
2005	1	30	38.3	3.5	23.7	-4.6	28.9	-1.7
2005	1	31	35.2	1.8	11.5	-11.4	23.5	-4.7
2005	2	1	37.0	2.8	8.3	-13.2	21.8	-5.7
2005	2	2	39.8	4.3	9.5	-12.5	23.1	-4.9
2005	2	3	40.0	4.4	20.8	-6.2	30.0	-1.1
2005	2	4	44.8	7.1	26.8	-2.9	34.9	1.6
2005	2	5	46.8	8.2	20.5	-6.4	32.4	0.2

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2005	2	6	53.0	11.7	24.2	-4.3	35.6	2.0
2005	2	7	51.8	11.0	25.8	-3.4	37.2	2.9
2005	2	8	44.7	7.1	34.0	1.1	38.6	3.7
2005	2	9	46.5	8.1	36.8	2.7	40.9	4.9
2005	2	10	41.2	5.1	28.5	-1.9	35.2	1.8
2005	2	11	38.7	3.7	23.8	-4.6	30.7	-0.7
2005	2	12	37.5	3.1	28.0	-2.2	32.6	0.4
2005	2	13	37.7	3.2	28.1	-2.2	32.7	0.4
2005	2	14	45.8	7.7	30.6	-0.8	36.7	2.6
2005	2	15	51.3	10.7	35.5	1.9	44.2	6.8
2005	2	16	49.1	9.5	32.7	0.4	39.7	4.3
2005	2	17	34.9	1.6	25.7	-3.5	29.8	-1.2
2005	2	18	25.8	-3.4	17.8	-7.9	22.0	-5.6
2005	2	19	28.6	-1.9	12.9	-10.6	20.9	-6.2
2005	2	20	33.5	0.8	23.6	-4.7	28.7	-1.8
2005	2	21	34.4	1.3	29.0	-1.7	32.0	0.0
2005	2	22	38.4	3.6	32.2	0.1	34.7	1.5
2005	2	23	33.7	0.9	25.7	-3.5	30.9	-0.6
2005	2	24	26.6	-3.0	20.5	-6.4	23.3	-4.8
2005	2	25	30.9	-0.6	17.8	-7.9	23.5	-4.8
2005	2	26	37.2	2.9	12.9	-10.6	25.5	-3.6
2005	2	27	32.2	0.1	15.3	-9.3	24.7	-4.1
2005	2	28	32.3	0.2	25.5	-3.6	28.2	-2.1
2005	3	1	33.2	0.7	24.7	-4.1	28.3	-2.1
2005	3	2	30.7	-0.7	22.4	-5.3	27.1	-2.7
2005	3	3	31.2	-0.4	16.6	-8.6	24.0	-4.4
2005	3	4	31.2	-0.4	13.9	-10.1	23.7	-4.6
2005	3	5	39.2	4.0	8.7	-12.9	24.2	-4.3
2005	3	6	45.9	7.7	16.9	-8.4	32.1	0.1
2005	3	7	58.3	14.6	30.0	-1.1	45.4	7.4
2005	3	8	50.0	10.0	15.7	-9.1	28.4	-2.0
2005	3	9	26.1	-3.3	12.9	-10.6	19.0	-7.2
2005	3	10	28.8	-1.8	6.4	-14.2	19.3	-7.1
2005	3	11	39.0	3.9	23.2	-4.9	30.5	-0.8
2005	3	12	36.4	2.4	24.6	-4.1	31.0	-0.6
2005	3	13	38.1	3.4	25.3	-3.7	32.1	0.0
2005	3	14	34.8	1.6	22.8	-5.1	29.1	-1.6
2005	3	15	40.4	4.7	21.6	-5.8	31.4	-0.3
2005	3	16	40.9	4.9	22.9	-5.1	32.7	0.4
2005	3	17	46.0	7.8	23.2	-4.9	34.0	1.1
2005	3	18	45.6	7.6	28.7	-1.8	37.1	2.9
2005	3	19	51.4	10.8	25.8	-3.4	38.2	3.4
2005	3	20	42.9	6.1	38.6	3.7	41.0	5.0
2005	3	21	40.7	4.8	36.2	2.3	38.7	3.7
2005	3	22	51.6	10.9	26.4	-3.1	38.7	3.7

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2005	3	23	38.8	3.8	31.9	-0.1	35.3	1.9
2005	3	24	39.6	4.2	31.4	-0.3	35.3	1.8
2005	3	25	44.0	6.7	31.8	-0.1	38.1	3.4
2005	3	26	44.7	7.1	28.3	-2.1	36.9	2.7
2005	3	27	45.3	7.4	38.1	3.4	41.3	5.2
2005	3	28	46.0	7.8	36.5	2.5	40.9	4.9
2005	3	29	45.7	7.6	38.2	3.4	43.4	6.3
2005	3	30	61.3	16.3	30.1	-1.1	44.5	7.0
2005	3	31	52.3	11.3	42.5	5.8	48.2	9.0
2005	4	1	63.1	17.3	44.4	6.9	52.7	11.5
2005	4	2	56.0	13.3	44.7	7.1	49.4	9.7
2005	4	3	51.5	10.8	34.0	1.1	39.4	4.1
2005	4	4	56.4	13.6	38.4	3.6	46.3	8.0
2005	4	5	63.2	17.3	33.0	0.6	49.3	9.6
2005	4	6	78.4	25.8	39.5	4.2	58.1	14.5
2005	4	7	75.4	24.1	47.6	8.7	61.1	16.1
2005	4	8	62.3	16.8	43.3	6.3	53.1	11.7
2005	4	9	65.5	18.6	36.6	2.6	51.9	11.1
2005	4	10	72.2	22.3	34.4	1.3	54.2	12.4
2005	4	11	58.7	14.8	42.9	6.1	52.1	11.2
2005	4	12	55.7	13.2	31.0	-0.6	43.9	6.6
2005	4	13	58.5	14.7	30.3	-0.9	45.7	7.6
2005	4	14	64.8	18.2	35.1	1.7	51.2	10.6
2005	4	15	59.8	15.4	40.0	4.4	49.1	9.5
2005	4	16	66.3	19.1	31.1	-0.5	49.2	9.5
2005	4	17	73.4	23.0	33.5	0.8	53.8	12.1
2005	4	18	72.7	22.6	40.6	4.8	57.8	14.3
2005	4	19	80.4	26.9	44.7	7.1	63.1	17.3
2005	4	20	81.0	27.2	52.9	11.6	68.9	20.5
2005	4	21	65.4	18.6	44.2	6.8	52.9	11.6
2005	4	22	55.2	12.9	34.5	1.4	45.2	7.3
2005	4	23	66.0	18.9	44.4	6.9	53.1	11.7
2005	4	24	50.4	10.2	36.1	2.3	41.4	5.2
2005	4	25	47.2	8.4	34.7	1.5	40.8	4.9
2005	4	26	68.4	20.2	35.9	2.2	53.8	12.1
2005	4	27	64.3	17.9	50.8	10.4	57.1	13.9
2005	4	28	57.1	13.9	44.5	6.9	50.5	10.3
2005	4	29	57.4	14.1	34.0	1.1	47.3	8.5
2005	4	30	57.5	14.2	48.7	9.3	53.2	11.8
2005	5	1	56.8	13.8	45.2	7.3	52.0	11.1
2005	5	2	51.3	10.7	34.5	1.4	42.9	6.0
2005	5	3	51.9	11.1	30.9	-0.6	41.7	5.4
2005	5	4	53.4	11.9	34.2	1.2	45.7	7.6
2005	5	7	65.8	18.8	35.2	1.8	52.8	11.6
2005	5	8	65.6	18.7	51.5	10.8	59.0	15.0

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2005	5	9	77.9	25.5	43.4	6.3	63.0	17.2
2005	5	10	77.5	25.3	54.5	12.5	66.5	19.1
2005	5	11	86.1	30.1	53.0	11.7	70.3	21.3
2005	5	12	69.6	20.9	46.2	7.9	56.7	13.7
2005	5	13	67.3	19.6	33.6	0.9	51.9	11.0
2005	5	14	79.0	26.1	52.8	11.6	64.4	18.0
2005	5	15	71.8	22.1	59.8	15.4	65.1	18.4
2005	5	16	61.7	16.5	46.6	8.1	56.6	13.7
2005	5	17	62.1	16.7	42.0	5.6	53.3	11.8
2005	5	18	65.4	18.6	39.5	4.2	53.0	11.7
2005	5	19	69.4	20.8	39.5	4.2	56.3	13.5
2005	5	20	59.8	15.4	47.3	8.5	53.6	12.0
2005	5	21	66.8	19.3	43.0	6.1	53.5	11.9
2005	5	22	56.7	13.7	49.4	9.7	52.6	11.4
2005	5	23	61.3	16.3	43.3	6.3	53.6	12.0
2005	5	24	56.9	13.8	50.4	10.2	53.5	12.0
2005	5	25	58.0	14.4	48.2	9.0	52.4	11.3
2005	5	26	73.4	23.0	49.2	9.6	62.1	16.7
2005	5	27	78.3	25.7	47.7	8.7	61.9	16.6
2005	5	28	68.4	20.2	47.6	8.7	56.4	13.6
2005	5	29	68.1	20.1	48.4	9.1	55.0	12.8
2005	5	30	68.3	20.2	44.3	6.8	54.6	12.6
2005	5	31	73.1	22.8	48.5	9.2	58.8	14.9
2005	6	1	77.3	25.2	52.7	11.5	66.6	19.2
2005	6	2	76.0	24.4	52.6	11.4	65.9	18.8
2005	6	3	62.0	16.7	57.0	13.9	60.0	15.5
2005	6	4	72.8	22.7	59.6	15.3	65.5	18.6
2005	6	5	84.5	29.2	59.3	15.2	70.3	21.3
2005	6	6	86.0	30.0	62.7	17.1	69.1	20.6
2005	6	7	87.0	30.6	61.7	16.5	71.9	22.2
2005	6	8	90.6	32.6	61.2	16.2	76.2	24.6
2005	6	9	87.0	30.6	64.4	18.0	75.7	24.3
2005	6	10	83.4	28.6	70.3	21.3	76.5	24.7
2005	6	11	85.3	29.6	72.5	22.5	78.7	25.9
2005	6	12	86.6	30.3	72.4	22.4	79.0	26.1
2005	6	13	89.0	31.7	65.1	18.4	77.9	25.5
2005	6	14	90.3	32.4	71.3	21.8	80.5	26.9
2005	6	15	79.2	26.2	65.2	18.4	74.0	23.3
2005	6	16	72.9	22.7	57.2	14.0	65.2	18.5
2005	6	17	69.1	20.6	51.6	10.9	60.2	15.7
2005	6	18	66.7	19.3	55.4	13.0	61.2	16.2
2005	6	19	69.6	20.9	54.3	12.4	61.7	16.5
2005	6	20	76.5	24.7	54.2	12.3	65.6	18.7
2005	6	21	80.0	26.7	54.3	12.4	68.0	20.0
2005	6	22	77.5	25.3	57.8	14.3	67.6	19.8

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2005	6	23	78.4	25.8	46.7	8.2	63.7	17.6
2005	6	24	85.2	29.6	51.7	10.9	70.1	21.2
2005	6	25	90.4	32.4	60.3	15.7	76.0	24.4
2005	6	26	92.4	33.6	65.3	18.5	77.6	25.3
2005	6	27	89.1	31.7	66.9	19.4	77.5	25.3
2005	6	28	91.3	32.9	70.0	21.1	79.8	26.6
2005	6	29	85.9	29.9	69.9	21.1	77.6	25.4
2005	6	30	85.1	29.5	68.0	20.0	74.7	23.7
2005	7	1	85.3	29.6	65.0	18.3	75.3	24.0
2005	7	2	75.3	24.1	61.8	16.6	70.1	21.2
2005	7	3	79.2	26.2	53.4	11.9	68.1	20.0
2005	7	4	84.4	29.1	59.5	15.3	74.0	23.3
2005	7	5	80.2	26.8	67.6	19.8	74.5	23.6
2005	7	6	79.7	26.5	67.0	19.4	72.6	22.6
2005	7	7	75.9	24.4	67.0	19.4	70.7	21.5
2005	7	8	69.5	20.8	63.8	17.7	66.5	19.2
2005	7	9	76.8	24.9	59.9	15.5	66.9	19.4
2005	7	10	87.1	30.6	60.8	16.0	73.2	22.9
2005	7	11	88.0	31.1	56.5	13.6	72.7	22.6
2005	7	12	89.1	31.7	66.0	18.9	77.5	25.3
2005	7	13	89.1	31.7	67.4	19.7	75.3	24.0
2005	7	14	83.9	28.8	67.2	19.6	75.4	24.1
2005	7	15	84.7	29.3	69.5	20.8	77.5	25.3
2005	7	16	83.2	28.4	72.8	22.7	76.5	24.7
2005	7	17	84.4	29.1	73.3	22.9	77.9	25.5
2005	7	18	87.2	30.7	73.9	23.3	80.0	26.7
2005	7	19	88.5	31.4	69.4	20.8	77.6	25.3
2005	7	20	86.0	30.0	67.2	19.6	75.7	24.3
2005	7	21	87.6	30.9	62.2	16.8	74.4	23.6
2005	7	22	85.9	29.9	66.4	19.1	75.1	23.9
2005	7	23	82.1	27.8	64.6	18.1	73.0	22.8
2005	7	24	82.8	28.2	55.3	12.9	70.5	21.4
2005	7	25	89.7	32.1	66.1	18.9	76.1	24.5
2005	7	26	91.0	32.8	63.3	17.4	77.1	25.1
2005	7	27	87.9	31.1	67.7	19.8	74.5	23.6
2005	7	28	78.7	25.9	58.1	14.5	68.3	20.2
2005	7	29	81.8	27.7	56.7	13.7	69.0	20.6
2005	7	30	85.2	29.6	59.9	15.5	73.1	22.8
2005	7	31	85.3	29.6	63.0	17.2	74.1	23.4
2005	8	1	86.7	30.4	64.8	18.2	75.8	24.3
2005	8	2	91.3	32.9	66.9	19.4	77.7	25.4
2005	8	3	92.7	33.7	64.5	18.1	78.5	25.8
2005	8	4	94.3	34.6	66.7	19.3	80.3	26.8
2005	8	5	86.0	30.0	68.5	20.3	74.5	23.6
2005	8	6	81.8	27.7	59.4	15.2	70.6	21.4

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2005	8	7	84.4	29.1	62.7	17.1	71.9	22.1
2005	8	8	77.9	25.5	67.8	19.9	71.6	22.0
2005	8	9	80.9	27.2	65.6	18.7	72.2	22.4
2005	8	10	87.6	30.9	64.4	18.0	75.2	24.0
2005	8	11	90.2	32.3	68.3	20.2	78.3	25.7
2005	8	12	91.9	33.3	67.6	19.8	77.4	25.2
2005	8	13	95.8	35.4	69.3	20.7	80.8	27.1
2005	8	14	93.7	34.3	70.2	21.2	79.8	26.6
2005	8	15	81.0	27.2	67.7	19.8	73.6	23.1
2005	8	16	72.4	22.4	66.7	19.3	69.9	21.0
2005	8	17	82.9	28.3	66.1	18.9	73.7	23.2
2005	8	18	84.0	28.9	56.4	13.6	71.3	21.8
2005	8	19	72.6	22.6	65.1	18.4	69.3	20.7
2005	8	20	84.5	29.2	68.3	20.2	75.1	23.9
2005	8	21	88.7	31.5	69.8	21.0	79.0	26.1
2005	8	22	79.5	26.4	59.8	15.4	69.9	21.1
2005	8	23	75.7	24.3	53.5	11.9	65.5	18.6
2005	8	24	76.1	24.5	54.3	12.4	66.5	19.2
2005	8	25	81.0	27.2	50.5	10.3	65.6	18.7
2005	8	26	79.7	26.5	56.1	13.4	67.5	19.7
2005	8	27	76.6	24.8	56.0	13.3	67.6	19.8
2005	8	28	78.5	25.8	66.1	18.9	70.3	21.3
2005	8	29	81.1	27.3	62.8	17.1	71.4	21.9
2005	8	30	77.9	25.5	71.9	22.2	74.7	23.7
2005	8	31	80.6	27.0	66.3	19.1	75.2	24.0
2005	9	1	79.6	26.4	62.1	16.7	69.9	21.1
2005	9	2	84.2	29.0	56.1	13.4	70.2	21.2
2005	9	3	76.2	24.6	55.1	12.8	66.6	19.2
2005	9	4	76.2	24.6	52.7	11.5	63.9	17.7
2005	9	5	80.0	26.7	52.4	11.3	65.3	18.5
2005	9	6	82.1	27.8	53.3	11.8	66.7	19.3
2005	9	7	83.1	28.4	53.3	11.8	67.5	19.7
2005	9	8	80.1	26.7	52.8	11.6	65.8	18.8
2005	9	9	79.2	26.2	58.2	14.6	67.0	19.4
2005	9	10	79.2	26.2	52.2	11.2	65.2	18.5
2005	9	11	80.8	27.1	46.0	7.8	62.8	17.1
2005	9	12	87.1	30.6	49.4	9.7	67.3	19.6
2005	9	13	89.9	32.2	57.7	14.3	72.6	22.5
2005	9	14	86.1	30.1	56.2	13.4	69.9	21.0
2005	9	15	88.9	31.6	68.3	20.2	77.4	25.2
2005	9	16	85.9	29.9	69.7	20.9	76.8	24.9
2005	9	17	77.8	25.4	63.1	17.3	71.0	21.7
2005	9	18	78.5	25.8	56.3	13.5	66.2	19.0
2005	9	19	82.2	27.9	54.7	12.6	67.3	19.6
2005	9	20	78.9	26.1	61.4	16.3	71.5	21.9

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2005	9	21	80.9	27.2	52.4	11.3	66.6	19.2
2005	9	22	85.2	29.6	50.9	10.5	68.9	20.5
2005	9	23	79.6	26.4	61.4	16.3	69.9	21.1
2005	9	24	73.9	23.3	48.8	9.3	62.8	17.1
2005	9	25	70.4	21.3	62.6	17.0	66.5	19.2
2005	9	26	71.9	22.2	68.2	20.1	69.4	20.8
2005	9	27	69.0	20.6	50.5	10.3	63.0	17.2
2005	9	28	73.2	22.9	41.7	5.4	58.3	14.6
2005	9	29	67.4	19.7	46.9	8.3	61.4	16.4
2005	9	30	65.3	18.5	39.6	4.2	51.3	10.7
2005	10	1	74.3	23.5	41.3	5.2	56.1	13.4
2005	10	2	80.3	26.8	47.3	8.5	61.3	16.3
2005	10	3	80.7	27.1	49.9	9.9	63.6	17.5
2005	10	4	74.5	23.6	50.1	10.1	60.3	15.7
2005	10	5	79.7	26.5	56.6	13.7	66.6	19.2
2005	10	6	74.2	23.4	54.3	12.4	64.7	18.2
2005	10	7	71.8	22.1	67.5	19.7	69.6	20.9
2005	10	8	67.4	19.7	49.6	9.8	56.0	13.3
2005	10	9	55.3	12.9	48.8	9.3	51.8	11.0
2005	10	10	61.1	16.2	51.0	10.6	55.6	13.1
2005	10	11	62.0	16.7	58.3	14.6	59.7	15.4
2005	10	12	58.1	14.5	51.3	10.7	54.9	12.7
2005	10	13	57.8	14.3	50.9	10.5	54.5	12.5
2005	10	14	62.0	16.7	56.3	13.5	58.7	14.9
2005	10	15	68.4	20.2	51.7	10.9	59.8	15.4
2005	10	16	58.9	14.9	49.3	9.6	54.5	12.5
2005	10	17	60.8	16.0	45.6	7.6	53.0	11.6
2005	10	18	68.1	20.1	45.0	7.2	55.5	13.1
2005	10	19	72.4	22.4	39.3	4.1	56.1	13.4
2005	10	20	56.0	13.3	41.7	5.4	48.7	9.3
2005	10	21	52.9	11.6	45.3	7.4	48.8	9.3
2005	10	22	50.2	10.1	43.6	6.4	46.0	7.8
2005	10	23	52.4	11.3	41.4	5.2	46.9	8.3
2005	10	24	46.3	7.9	35.9	2.2	41.0	5.0
2005	10	25	43.0	6.1	38.0	3.3	39.5	4.1
2005	10	29	49.3	9.6	35.0	1.7	41.6	5.4
2005	10	30	61.8	16.6	36.4	2.4	47.1	8.4
2005	10	31	65.5	18.6	31.3	-0.4	46.0	7.8
2005	11	1	66.7	19.3	34.5	1.4	50.0	10.0
2005	11	2	55.1	12.8	36.5	2.5	46.9	8.3
2005	11	3	64.8	18.2	31.3	-0.4	47.3	8.5
2005	11	4	72.9	22.7	36.5	2.5	53.8	12.1
2005	11	5	71.3	21.8	44.7	7.1	56.3	13.5
2005	11	6	72.4	22.4	47.4	8.6	57.8	14.3
2005	11	7	58.6	14.8	44.0	6.7	51.8	11.0

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2005	11	8	60.2	15.7	35.6	2.0	46.5	8.1
2005	11	9	58.9	14.9	39.0	3.9	48.6	9.2
2005	11	10	56.2	13.4	41.5	5.3	47.6	8.7
2005	11	11	45.0	7.2	30.9	-0.6	40.7	4.8
2005	11	12	58.1	14.5	27.1	-2.7	39.9	4.4
2005	11	13	63.2	17.3	32.9	0.5	48.5	9.2
2005	11	14	60.3	15.7	42.0	5.6	53.3	11.8
2005	11	15	64.8	18.2	43.2	6.2	51.6	10.9
2005	11	16	67.1	19.5	42.4	5.8	58.3	14.6
2005	11	17	40.8	4.9	30.0	-1.1	36.0	2.2
2005	11	18	35.3	1.8	27.5	-2.5	30.0	-1.1
2005	11	19	45.3	7.4	23.5	-4.7	33.2	0.7
2005	11	20	54.5	12.5	25.3	-3.7	36.8	2.7
2005	11	21	45.1	7.3	27.8	-2.3	36.2	2.3
2005	11	22	43.5	6.4	30.9	-0.6	38.6	3.7
2005	11	23	31.5	-0.3	23.8	-4.6	28.2	-2.1
2005	11	24	39.2	4.0	18.9	-7.3	30.9	-0.6
2005	11	25	30.1	-1.1	16.6	-8.6	22.2	-5.5
2005	11	26	36.9	2.7	16.8	-8.4	28.1	-2.2
2005	11	27	48.9	9.4	29.6	-1.3	39.8	4.3
2005	11	28	63.5	17.5	43.6	6.4	55.1	12.8
2005	11	29	67.5	19.7	50.0	10.0	62.1	16.7
2005	11	30	49.4	9.7	39.5	4.2	43.5	6.4
2005	12	1	39.3	4.1	31.9	-0.1	36.1	2.3
2005	12	2	34.8	1.6	27.1	-2.7	32.3	0.2
2005	12	3	30.5	-0.8	25.1	-3.8	27.4	-2.6
2005	12	4	32.2	0.1	24.6	-4.1	28.1	-2.2
2005	12	5	32.1	0.1	23.4	-4.8	27.5	-2.5
2005	12	6	31.6	-0.2	23.7	-4.6	27.2	-2.7
2005	12	7	28.2	-2.1	18.6	-7.4	23.6	-4.7
2005	12	8	27.7	-2.4	11.3	-11.5	21.2	-6.0
2005	12	9	32.7	0.4	22.3	-5.4	27.3	-2.6
2005	12	10	30.5	-0.8	19.4	-7.0	26.0	-3.3
2005	12	11	29.7	-1.3	11.1	-11.6	21.5	-5.9
2005	12	12	31.7	-0.2	19.9	-6.7	28.5	-1.9
2005	12	13	21.7	-5.7	2.7	-16.3	12.5	-10.8
2005	12	14	18.6	-7.4	-3.1	-19.5	8.5	-13.1
2005	12	15	34.6	1.4	6.6	-14.1	18.6	-7.5
2005	12	16	42.1	5.6	31.1	-0.5	36.0	2.2
2005	12	17	33.3	0.7	22.0	-5.6	28.7	-1.8
2005	12	18	34.4	1.3	17.2	-8.2	24.5	-4.1
2005	12	19	28.0	-2.2	18.7	-7.4	23.7	-4.6
2005	12	20	24.9	-3.9	14.1	-9.9	19.6	-6.9
2005	12	21	28.0	-2.2	14.5	-9.7	22.6	-5.2
2005	12	22	34.2	1.2	26.3	-3.2	29.4	-1.5

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

(Page 41 of 49)

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2005	12	23	44.0	6.7	27.9	-2.3	34.9	1.6
2005	12	24	50.5	10.3	26.4	-3.1	34.3	1.3
2005	12	25	44.5	6.9	26.0	-3.3	34.3	1.3
2005	12	26	39.6	4.2	34.8	1.6	36.7	2.6
2005	12	27	42.0	5.6	30.5	-0.8	37.4	3.0
2005	12	28	45.4	7.4	26.9	-2.8	35.5	2.0
2005	12	29	45.0	7.2	40.3	4.6	42.8	6.0
2005	12	30	42.8	6.0	31.2	-0.4	37.0	2.8
2005	12	31	34.5	1.4	29.2	-1.6	31.6	-0.3
2006	1	1	36.9	2.7	32.0	0.0	33.9	1.0
2006	1	2	39.2	4.0	31.3	-0.4	34.8	1.6
2006	1	3	39.3	4.1	34.7	1.5	37.0	2.8
2006	1	4	39.5	4.2	31.7	-0.2	36.2	2.3
2006	1	5	43.1	6.2	36.1	2.3	39.1	3.9
2006	1	6	38.2	3.4	24.6	-4.1	32.9	0.5
2006	1	7	30.0	-1.1	22.0	-5.6	26.3	-3.2
2006	1	8	39.9	4.4	29.8	-1.2	34.9	1.6
2006	1	9	54.8	12.7	31.7	-0.2	42.7	6.0
2006	1	10	45.6	7.6	31.3	-0.4	39.6	4.2
2006	1	11	48.2	9.0	33.4	0.8	43.1	6.1
2006	1	12	53.3	11.8	34.9	1.6	43.8	6.6
2006	1	13	58.4	14.7	30.2	-1.0	41.6	5.3
2006	1	14	59.5	15.3	29.4	-1.4	46.6	8.1
2006	1	15	28.3	-2.1	16.0	-8.9	22.0	-5.5
2006	1	16	28.7	-1.8	12.9	-10.6	19.1	-7.2
2006	1	17	41.1	5.1	17.3	-8.2	27.9	-2.3
2006	1	18	59.6	15.3	33.6	0.9	43.5	6.4
2006	1	19	40.6	4.8	27.7	-2.4	33.5	0.8
2006	1	20	56.1	13.4	28.1	-2.2	40.1	4.5
2006	1	21	56.5	13.6	36.7	2.6	44.9	7.2
2006	1	22	39.0	3.9	25.9	-3.4	33.8	1.0
2006	1	23	37.8	3.2	31.0	-0.6	34.2	1.2
2006	1	24	42.2	5.7	25.3	-3.7	33.6	0.9
2006	1	25	36.2	2.3	31.0	-0.6	34.0	1.1
2006	1	26	31.2	-0.4	22.9	-5.1	26.9	-2.9
2006	1	27	37.7	3.2	12.4	-10.9	24.2	-4.3
2006	1	28	53.3	11.8	25.2	-3.8	35.4	1.9
2006	1	29	45.4	7.4	30.0	-1.1	36.9	2.7
2006	1	30	55.4	13.0	32.2	0.1	41.7	5.4
2006	1	31	48.3	9.1	36.9	2.7	41.9	5.5
2006	2	1	37.6	3.1	33.9	1.1	35.5	2.0
2006	2	2	48.0	8.9	30.9	-0.6	39.4	4.1
2006	2	3	51.5	10.8	42.0	5.6	47.5	8.6
2006	2	4	51.7	10.9	32.0	0.0	41.7	5.4
2006	2	5	45.5	7.5	33.0	0.6	38.6	3.6

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2006	2	6	34.7	1.5	28.2	-2.1	32.0	0.0
2006	2	7	34.7	1.5	30.4	-0.9	32.2	0.1
2006	2	8	31.0	-0.6	23.7	-4.6	27.7	-2.4
2006	2	9	30.4	-0.9	19.4	-7.0	25.0	-3.9
2006	2	10	32.2	0.1	23.7	-4.6	27.4	-2.6
2006	2	11	37.6	3.1	24.1	-4.4	30.2	-1.0
2006	2	12	29.4	-1.4	22.9	-5.1	26.7	-3.0
2006	2	13	32.2	0.1	14.4	-9.8	24.5	-4.2
2006	2	14	42.0	5.6	26.1	-3.3	33.1	0.6
2006	2	15	56.4	13.6	24.9	-3.9	39.3	4.1
2006	2	16	63.6	17.6	30.9	-0.6	46.0	7.8
2006	2	17	55.0	12.8	29.9	-1.2	45.4	7.5
2006	2	18	28.6	-1.9	12.4	-10.9	22.1	-5.5
2006	2	19	25.8	-3.4	9.9	-12.3	16.7	-8.5
2006	2	20	32.9	0.5	18.6	-7.4	24.8	-4.0
2006	2	21	37.6	3.1	21.7	-5.7	28.8	-1.8
2006	2	22	44.7	7.1	20.3	-6.5	31.7	-0.2
2006	2	23	44.9	7.2	31.8	-0.1	36.3	2.4
2006	2	24	35.5	1.9	24.1	-4.4	30.9	-0.6
2006	2	25	48.3	9.1	22.0	-5.6	32.8	0.4
2006	2	26	27.4	-2.6	17.6	-8.0	20.7	-6.3
2006	2	27	27.9	-2.3	14.1	-9.9	20.2	-6.6
2006	2	28	32.4	0.2	16.5	-8.6	24.2	-4.4
2006	3	1	40.3	4.6	25.3	-3.7	30.5	-0.8
2006	3	2	31.2	-0.4	21.7	-5.7	26.9	-2.8
2006	3	3	29.8	-1.2	22.2	-5.4	25.5	-3.6
2006	3	4	39.2	4.0	23.7	-4.6	30.4	-0.9
2006	3	5	44.5	6.9	27.1	-2.7	35.5	1.9
2006	3	6	40.4	4.7	28.8	-1.8	34.2	1.2
2006	3	7	39.7	4.3	20.1	-6.6	30.8	-0.7
2006	3	8	46.1	7.8	19.3	-7.1	33.9	1.0
2006	3	9	55.8	13.2	39.8	4.3	46.7	8.2
2006	3	10	68.0	20.0	49.5	9.7	59.5	15.3
2006	3	11	60.6	15.9	37.6	3.1	51.5	10.9
2006	3	12	55.6	13.1	49.0	9.4	51.9	11.1
2006	3	13	74.1	23.4	49.0	9.4	59.3	15.2
2006	3	14	58.1	14.5	36.4	2.4	47.1	8.4
2006	3	15	40.3	4.6	32.2	0.1	36.1	2.3
2006	3	16	46.4	8.0	31.7	-0.2	38.1	3.4
2006	3	17	41.4	5.2	28.2	-2.1	34.0	1.1
2006	3	18	37.4	3.0	24.6	-4.1	31.1	-0.5
2006	3	19	38.5	3.6	26.9	-2.8	32.5	0.3
2006	3	20	35.2	1.8	24.9	-3.9	31.4	-0.3
2006	3	21	39.8	4.3	20.2	-6.6	29.9	-1.2
2006	3	22	38.5	3.6	27.8	-2.3	33.4	0.8

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2006	3	23	43.8	6.6	31.5	-0.3	36.6	2.5
2006	3	24	40.1	4.5	24.0	-4.4	32.8	0.5
2006	3	25	42.8	6.0	32.3	0.2	36.2	2.3
2006	3	26	45.3	7.4	33.1	0.6	39.0	3.9
2006	3	27	54.2	12.3	30.9	-0.6	43.2	6.2
2006	3	28	55.0	12.8	30.6	-0.8	43.7	6.5
2006	3	29	61.5	16.4	33.0	0.6	48.1	9.0
2006	3	30	64.6	18.1	31.6	-0.2	49.7	9.8
2006	3	31	74.7	23.7	36.7	2.6	57.1	14.0
2006	4	1	65.3	18.5	54.0	12.2	59.4	15.2
2006	4	2	61.9	16.6	42.6	5.9	51.6	10.9
2006	4	3	55.5	13.1	41.4	5.2	49.2	9.5
2006	4	4	48.0	8.9	39.6	4.2	44.3	6.8
2006	4	5	41.0	5.0	28.8	-1.8	36.4	2.4
2006	4	6	52.2	11.2	37.7	3.2	42.9	6.1
2006	4	7	54.6	12.6	33.3	0.7	44.9	7.2
2006	4	8	53.5	11.9	34.3	1.3	40.5	4.7
2006	4	9	52.9	11.6	25.5	-3.6	40.4	4.6
2006	4	10	59.9	15.5	29.0	-1.7	44.6	7.0
2006	4	11	72.0	22.2	36.8	2.7	55.9	13.3
2006	4	12	68.9	20.5	50.9	10.5	61.1	16.2
2006	4	13	69.4	20.8	48.8	9.3	59.5	15.3
2006	4	14	57.2	14.0	44.1	6.7	50.9	10.5
2006	4	15	76.1	24.5	48.5	9.2	61.3	16.3
2006	4	16	64.3	17.9	47.6	8.7	54.3	12.4
2006	4	17	61.2	16.2	34.9	1.6	50.0	10.0
2006	4	18	68.9	20.5	48.3	9.1	57.5	14.2
2006	4	19	72.1	22.3	41.2	5.1	58.6	14.8
2006	4	20	80.3	26.8	40.5	4.7	61.6	16.4
2006	4	21	65.6	18.7	49.1	9.5	56.5	13.6
2006	4	22	46.8	8.2	41.8	5.4	43.9	6.6
2006	4	23	61.5	16.4	42.6	5.9	50.0	10.0
2006	4	24	62.6	17.0	45.5	7.5	54.3	12.4
2006	4	25	68.8	20.4	42.3	5.7	52.8	11.5
2006	4	26	57.9	14.4	31.4	-0.3	45.5	7.5
2006	4	27	67.1	19.5	34.7	1.5	52.0	11.1
2006	4	28	61.0	16.1	36.0	2.2	50.8	10.4
2006	4	29	65.7	18.7	34.4	1.3	51.1	10.6
2006	4	30	72.2	22.3	35.5	1.9	55.0	12.8
2006	5	1	72.1	22.3	39.2	4.0	57.6	14.2
2006	5	2	73.6	23.1	39.3	4.1	57.7	14.3
2006	5	3	70.5	21.4	44.8	7.1	58.5	14.7
2006	5	4	80.0	26.7	43.2	6.2	63.3	17.4
2006	5	5	73.7	23.2	59.0	15.0	66.0	18.9
2006	5	6	68.6	20.3	48.4	9.1	57.1	13.9

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2006	5	7	65.7	18.7	35.9	2.2	52.3	11.3
2006	5	8	67.3	19.6	47.8	8.8	57.6	14.2
2006	5	9	70.2	21.2	46.7	8.2	58.8	14.9
2006	5	10	76.5	24.7	47.3	8.5	63.7	17.6
2006	5	11	62.5	16.9	57.2	14.0	59.6	15.3
2006	5	12	69.6	20.9	51.2	10.7	59.6	15.3
2006	5	13	68.3	20.2	48.2	9.0	57.3	14.0
2006	5	14	65.1	18.4	51.8	11.0	57.1	14.0
2006	5	15	57.2	14.0	48.8	9.3	52.6	11.4
2006	5	16	59.4	15.2	49.8	9.9	54.2	12.3
2006	5	17	67.3	19.6	51.7	10.9	58.4	14.7
2006	5	18	66.5	19.2	46.5	8.1	55.3	13.0
2006	5	19	56.2	13.4	45.7	7.6	49.7	9.8
2006	5	20	60.7	15.9	46.0	7.8	54.7	12.6
2006	5	21	60.0	15.6	39.5	4.2	50.3	10.2
2006	5	22	55.2	12.9	45.9	7.7	49.4	9.7
2006	5	23	63.9	17.7	40.5	4.7	53.2	11.8
2006	5	26	73.5	23.1	51.3	10.7	62.3	16.8
2006	5	27	76.1	24.5	60.4	15.8	67.6	19.8
2006	5	28	82.6	28.1	52.7	11.5	66.4	19.1
2006	5	29	90.1	32.3	54.0	12.2	72.4	22.4
2006	5	30	92.6	33.7	64.3	17.9	77.2	25.1
2006	5	31	87.8	31.0	63.0	17.2	74.4	23.6
2006	6	1	83.8	28.8	66.5	19.2	75.2	24.0
2006	6	2	72.3	22.4	63.8	17.7	68.2	20.1
2006	6	3	63.8	17.7	58.1	14.5	61.4	16.3
2006	6	4	62.1	16.7	56.2	13.4	59.0	15.0
2006	6	5	71.5	21.9	54.2	12.3	61.9	16.6
2006	6	6	74.2	23.4	51.4	10.8	64.2	17.9
2006	6	7	65.6	18.7	54.4	12.4	59.7	15.4
2006	6	8	67.4	19.7	55.3	12.9	60.4	15.8
2006	6	9	68.5	20.3	55.3	12.9	60.5	15.8
2006	6	10	64.9	18.3	53.2	11.8	57.9	14.4
2006	6	11	70.2	21.2	47.5	8.6	58.6	14.8
2006	6	12	64.3	17.9	47.8	8.8	57.9	14.4
2006	6	13	77.6	25.3	52.5	11.4	65.3	18.5
2006	6	14	73.2	22.9	57.6	14.2	63.2	17.3
2006	6	15	75.9	24.4	53.7	12.1	65.4	18.6
2006	6	16	80.5	26.9	47.7	8.7	64.9	18.3
2006	6	17	85.4	29.7	53.2	11.8	69.9	21.0
2006	6	18	89.7	32.1	58.9	14.9	75.7	24.3
2006	6	19	86.4	30.2	65.0	18.3	73.1	22.8
2006	6	20	80.9	27.2	64.9	18.3	71.1	21.7
2006	6	21	80.2	26.8	57.8	14.3	69.8	21.0
2006	6	22	85.5	29.7	64.6	18.1	74.0	23.3

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2006	6	23	73.3	22.9	65.2	18.4	68.2	20.1
2006	6	24	77.5	25.3	65.7	18.7	70.6	21.4
2006	6	25	71.3	21.8	66.4	19.1	68.8	20.4
2006	6	26	80.1	26.7	67.2	19.6	71.6	22.0
2006	6	27	79.5	26.4	67.5	19.7	72.1	22.3
2006	6	28	81.5	27.5	66.7	19.3	73.1	22.8
2006	6	29	80.8	27.1	59.5	15.3	70.7	21.5
2006	6	30	78.0	25.6	57.8	14.3	64.9	18.3
2006	7	1	81.4	27.4	54.2	12.3	67.6	19.8
2006	7	2	85.7	29.8	63.1	17.3	71.4	21.9
2006	7	3	84.2	29.0	66.5	19.2	74.4	23.5
2006	7	4	80.2	26.8	67.7	19.8	73.4	23.0
2006	7	5	79.7	26.5	68.1	20.1	72.3	22.4
2006	7	6	73.6	23.1	58.9	14.9	66.9	19.4
2006	7	7	78.0	25.6	53.0	11.7	65.3	18.5
2006	7	8	78.3	25.7	56.9	13.8	68.1	20.0
2006	7	9	80.8	27.1	59.5	15.3	70.1	21.2
2006	7	10	81.7	27.6	58.9	14.9	71.4	21.9
2006	7	11	85.4	29.7	68.1	20.1	78.1	25.6
2006	7	12	81.0	27.2	70.4	21.3	74.3	23.5
2006	7	13	81.1	27.3	67.3	19.6	74.1	23.4
2006	7	14	87.1	30.6	63.0	17.2	74.7	23.7
2006	7	15	82.7	28.2	66.9	19.4	72.9	22.7
2006	7	16	90.5	32.5	66.7	19.3	77.1	25.1
2006	7	17	92.4	33.6	67.2	19.6	78.9	26.1
2006	7	18	90.2	32.3	68.8	20.4	79.5	26.4
2006	7	19	86.9	30.5	68.3	20.2	77.4	25.2
2006	7	20	85.6	29.8	68.8	20.4	76.6	24.8
2006	7	21	86.4	30.2	70.4	21.3	75.4	24.1
2006	7	22	82.2	27.9	67.7	19.8	72.0	22.2
2006	7	23	76.6	24.8	63.0	17.2	69.5	20.8
2006	7	24	81.2	27.3	59.0	15.0	69.5	20.8
2006	7	25	84.8	29.3	60.9	16.1	73.6	23.1
2006	7	26	86.3	30.2	64.0	17.8	76.0	24.4
2006	7	27	87.6	30.9	68.6	20.3	75.3	24.0
2006	7	28	81.8	27.7	68.7	20.4	74.7	23.7
2006	7	29	86.7	30.4	66.2	19.0	76.2	24.5
2006	7	30	86.4	30.2	70.4	21.3	78.1	25.6
2006	7	31	89.0	31.7	67.5	19.7	78.2	25.7
2006	8	1	93.6	34.2	72.1	22.3	82.6	28.1
2006	8	2	93.6	34.2	74.8	23.8	83.8	28.8
2006	8	3	93.3	34.1	72.5	22.5	80.0	26.6
2006	8	4	83.9	28.8	66.3	19.1	75.7	24.3
2006	8	5	81.6	27.6	60.0	15.6	70.9	21.6
2006	8	6	84.4	29.1	58.0	14.4	71.8	22.1

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2006	8	7	85.0	29.4	68.2	20.1	76.3	24.6
2006	8	8	79.1	26.2	63.4	17.4	72.2	22.4
2006	8	9	79.8	26.6	51.8	11.0	66.0	18.9
2006	8	10	83.6	28.7	56.8	13.8	69.8	21.0
2006	8	11	75.0	23.9	61.2	16.2	67.9	19.9
2006	8	12	74.1	23.4	49.2	9.6	62.9	17.2
2006	8	13	77.9	25.5	46.3	7.9	62.5	16.9
2006	8	14	84.5	29.2	53.1	11.7	70.4	21.3
2006	8	15	81.9	27.7	63.4	17.4	73.6	23.1
2006	8	16	79.0	26.1	56.6	13.7	67.6	19.8
2006	8	17	82.8	28.2	56.2	13.4	68.7	20.4
2006	8	18	81.7	27.6	61.1	16.2	71.0	21.7
2006	8	19	77.5	25.3	62.8	17.1	70.6	21.4
2006	8	20	85.8	29.9	69.2	20.7	76.6	24.8
2006	8	21	79.4	26.3	63.8	17.7	70.7	21.5
2006	8	22	82.1	27.8	57.8	14.3	69.5	20.8
2006	8	23	79.6	26.4	57.9	14.4	68.0	20.0
2006	8	24	75.2	24.0	59.4	15.2	65.9	18.8
2006	8	25	76.5	24.7	59.9	15.5	66.7	19.3
2006	8	26	68.8	20.4	65.2	18.4	66.9	19.4
2006	8	27	70.2	21.2	65.8	18.8	67.3	19.6
2006	8	28	78.1	25.6	66.6	19.2	71.6	22.0
2006	8	29	73.4	23.0	67.0	19.4	69.7	21.0
2006	8	30	72.7	22.6	63.8	17.7	67.3	19.6
2006	8	31	70.0	21.1	58.3	14.6	64.1	17.8
2006	9	1	66.0	18.9	55.8	13.2	60.5	15.9
2006	9	2	64.1	17.8	54.1	12.3	59.4	15.2
2006	9	3	64.0	17.8	58.2	14.6	61.3	16.3
2006	9	4	71.1	21.7	57.1	13.9	63.1	17.3
2006	9	5	63.2	17.3	57.9	14.4	60.6	15.9
2006	9	6	70.6	21.4	57.2	14.0	63.1	17.3
2006	9	7	75.9	24.4	52.8	11.6	62.2	16.8
2006	9	8	79.4	26.3	53.6	12.0	65.2	18.4
2006	9	9	78.7	25.9	55.7	13.2	64.9	18.3
2006	9	10	65.2	18.4	57.8	14.3	61.0	16.1
2006	9	11	64.2	17.9	53.3	11.8	58.1	14.5
2006	9	12	66.9	19.4	49.8	9.9	58.9	15.0
2006	9	13	61.7	16.5	55.1	12.8	58.5	14.7
2006	9	14	63.6	17.6	59.5	15.3	61.5	16.4
2006	9	15	66.8	19.3	60.2	15.7	63.0	17.2
2006	9	16	71.7	22.1	60.4	15.8	65.1	18.4
2006	9	17	75.1	23.9	57.5	14.2	63.2	17.3
2006	9	18	80.6	27.0	55.5	13.1	66.6	19.2
2006	9	19	73.8	23.2	55.7	13.2	65.9	18.9
2006	9	20	61.2	16.2	49.5	9.7	55.3	12.9

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2006	9	21	63.4	17.4	43.1	6.2	52.4	11.3
2006	9	22	66.1	18.9	44.2	6.8	55.4	13.0
2006	9	23	72.0	22.2	59.3	15.2	64.6	18.1
2006	9	24	73.5	23.1	58.7	14.8	66.5	19.1
2006	9	25	67.8	19.9	52.5	11.4	60.0	15.5
2006	9	26	66.8	19.3	45.5	7.5	55.2	12.9
2006	9	27	70.6	21.4	45.1	7.3	57.7	14.3
2006	9	28	70.3	21.3	52.9	11.6	60.7	15.9
2006	9	29	58.9	14.9	46.8	8.2	53.3	11.8
2006	9	30	58.7	14.8	40.6	4.8	49.0	9.5
2006	10	1	65.2	18.4	51.5	10.8	57.3	14.1
2006	10	2	66.2	19.0	45.3	7.4	54.2	12.3
2006	10	3	76.9	24.9	47.8	8.8	60.6	15.9
2006	10	4	68.9	20.5	55.2	12.9	61.5	16.4
2006	10	5	62.6	17.0	47.8	8.8	53.8	12.1
2006	10	6	55.9	13.3	45.0	7.2	50.5	10.3
2006	10	7	60.7	15.9	41.0	5.0	48.8	9.3
2006	10	8	71.8	22.1	41.6	5.3	54.5	12.5
2006	10	9	75.8	24.3	46.7	8.2	59.1	15.1
2006	10	10	72.5	22.5	50.6	10.3	59.8	15.5
2006	10	11	62.1	16.7	55.4	13.0	60.3	15.7
2006	10	12	61.6	16.4	39.2	4.0	55.7	13.2
2006	10	13	51.2	10.7	30.0	-1.1	41.0	5.0
2006	10	14	53.1	11.7	30.5	-0.8	41.5	5.3
2006	10	15	52.8	11.6	29.1	-1.6	39.6	4.2
2006	10	16	59.6	15.3	31.2	-0.4	44.0	6.7
2006	10	17	61.4	16.3	44.0	6.7	53.7	12.1
2006	10	18	65.2	18.4	59.0	15.0	62.0	16.7
2006	10	19	70.3	21.3	53.2	11.8	61.4	16.3
2006	10	20	62.3	16.8	44.5	6.9	51.5	10.8
2006	10	21	55.2	12.9	40.4	4.7	46.8	8.2
2006	10	22	56.0	13.3	36.9	2.7	46.1	7.8
2006	10	23	46.6	8.1	40.8	4.9	44.0	6.7
2006	10	24	45.5	7.5	37.3	2.9	41.8	5.5
2006	10	25	47.7	8.7	39.9	4.4	43.9	6.6
2006	10	26	46.4	8.0	31.2	-0.4	41.3	5.2
2006	10	27	45.5	7.5	28.3	-2.1	37.6	3.1
2006	10	28	54.6	12.6	41.0	5.0	47.9	8.8
2006	10	29	47.4	8.6	38.8	3.8	43.3	6.3
2006	10	30	59.9	15.5	30.3	-0.9	44.2	6.8
2006	10	31	71.9	22.2	35.6	2.0	53.7	12.0
2006	11	2	48.0	8.9	38.6	3.7	43.9	6.6
2006	11	3	40.3	4.6	29.9	-1.2	35.7	2.1
2006	11	4	42.3	5.7	26.6	-3.0	33.7	1.0
2006	11	5	49.4	9.7	31.5	-0.3	39.3	4.0

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2006	11	6	55.6	13.1	29.7	-1.3	41.0	5.0
2006	11	7	53.7	12.1	33.1	0.6	43.6	6.4
2006	11	8	57.1	13.9	48.5	9.2	55.0	12.8
2006	11	9	64.2	17.9	51.9	11.1	57.8	14.3
2006	11	10	56.8	13.8	41.7	5.4	48.7	9.3
2006	11	11	68.3	20.2	41.8	5.4	55.6	13.1
2006	11	12	58.4	14.7	40.9	4.9	45.8	7.6
2006	11	13	47.5	8.6	41.2	5.1	44.2	6.8
2006	11	14	52.6	11.4	47.2	8.4	49.8	9.9
2006	11	15	63.4	17.4	49.4	9.7	55.3	12.9
2006	11	16	67.9	19.9	58.8	14.9	63.5	17.5
2006	11	17	63.8	17.7	42.0	5.6	51.5	10.9
2006	11	18	45.0	7.2	38.2	3.4	41.7	5.4
2006	11	19	42.4	5.8	33.4	0.8	39.1	4.0
2006	11	20	38.9	3.8	36.2	2.3	37.5	3.1
2006	11	21	42.7	5.9	29.4	-1.4	35.3	1.8
2006	11	22	41.4	5.2	27.9	-2.3	34.5	1.4
2006	11	23	43.0	6.1	35.3	1.8	39.4	4.1
2006	11	24	54.0	12.2	29.0	-1.7	38.2	3.4
2006	11	25	53.6	12.0	28.4	-2.0	38.4	3.5
2006	11	26	53.2	11.8	30.9	-0.6	40.5	4.7
2006	11	27	54.6	12.6	34.5	1.4	42.8	6.0
2006	11	28	57.9	14.4	36.3	2.4	46.1	7.8
2006	11	29	56.4	13.6	50.8	10.4	53.5	11.9
2006	11	30	64.9	18.3	51.7	10.9	58.9	15.0
2006	12	1	69.8	21.0	43.5	6.4	62.8	17.1
2006	12	2	42.4	5.8	32.1	0.1	38.6	3.6
2006	12	3	44.6	7.0	28.4	-2.0	34.5	1.4
2006	12	4	33.7	0.9	25.8	-3.4	30.5	-0.8
2006	12	5	33.2	0.7	25.3	-3.7	28.8	-1.8
2006	12	6	44.5	6.9	22.6	-5.2	34.8	1.6
2006	12	7	43.9	6.6	22.5	-5.3	36.0	2.2
2006	12	8	29.1	-1.6	16.3	-8.7	22.6	-5.3
2006	12	9	39.5	4.2	19.9	-6.7	28.5	-2.0
2006	12	10	52.2	11.2	28.7	-1.8	38.5	3.6
2006	12	11	50.7	10.4	29.9	-1.2	38.9	3.8
2006	12	12	51.7	10.9	38.1	3.4	44.6	7.0
2006	12	13	53.4	11.9	37.9	3.3	46.9	8.3
2006	12	14	57.9	14.4	33.1	0.6	43.1	6.1
2006	12	15	56.2	13.4	36.5	2.5	45.6	7.6
2006	12	16	47.0	8.3	32.7	0.4	42.4	5.8
2006	12	17	51.8	11.0	29.8	-1.2	39.7	4.3
2006	12	18	49.6	9.8	41.3	5.2	46.2	7.9
2006	12	19	38.7	3.7	28.4	-2.0	34.6	1.4
2006	12	20	43.2	6.2	23.8	-4.6	31.6	-0.3

Table 2.3-82 {SSES Daily Average and Extreme Temperatures (2001-2006)}

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Year	Month	Day	Max T (°F)	Max T (°C)	Min T (°F)	Min T (°C)	Aver T (°F)	Aver T (°C)
2006	12	21	47.3	8.5	27.7	-2.4	36.4	2.4
2006	12	22	47.6	8.7	30.7	-0.7	37.9	3.3
2006	12	23	52.5	11.4	45.8	7.7	48.9	9.4
2006	12	24	49.4	9.7	36.8	2.7	43.9	6.6
2006	12	25	43.0	6.1	27.6	-2.4	34.9	1.6
2006	12	26	45.8	7.7	39.7	4.3	42.3	5.7
2006	12	27	38.9	3.8	32.1	0.1	36.5	2.5
2006	12	28	43.4	6.3	29.0	-1.7	36.2	2.3
2006	12	29	42.1	5.6	30.2	-1.0	36.0	2.2
2006	12	30	47.9	8.8	36.2	2.3	41.1	5.0
2006	12	31	43.0	6.1	28.1	-2.2	36.4	2.5

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2001	1	1	13.8	-10.1	6.9	-13.9	10.5	-11.9
2001	1	2	10.4	-12.0	3.5	-15.8	7.6	-13.6
2001	1	3	12.1	-11.1	5.3	-14.8	9.7	-12.4
2001	1	4	17.2	-8.2	11.6	-11.3	14.6	-9.7
2001	1	5	23.2	-4.9	10.9	-11.7	17.5	-8.1
2001	1	6	24.3	-4.3	16.4	-8.7	21.3	-5.9
2001	1	7	24.0	-4.4	18.0	-7.8	20.8	-6.3
2001	1	8	29.5	-1.4	21.7	-5.7	24.7	-4.0
2001	1	9	24.1	-4.4	6.7	-14.1	12.6	-10.8
2001	1	10	19.1	-7.2	7.4	-13.7	15.2	-9.4
2001	1	11	22.5	-5.3	14.1	-9.9	18.4	-7.5
2001	1	12	21.8	-5.7	13.2	-10.4	19.1	-7.2
2001	1	13	20.5	-6.4	13.8	-10.1	17.6	-8.0
2001	1	14	23.8	-4.6	15.3	-9.3	19.7	-6.8
2001	1	15	31.9	-0.1	24.6	-4.1	29.5	-1.4
2001	1	16	31.9	-0.1	26.2	-3.2	28.7	-1.8
2001	1	17	26.5	-3.1	22.8	-5.1	24.7	-4.1
2001	1	18	27.5	-2.5	21.4	-5.9	24.5	-4.2
2001	1	19	32.1	0.1	28.0	-2.2	30.2	-1.0
2001	1	20	27.0	-2.8	20.6	-6.3	23.3	-4.9
2001	1	21	20.9	-6.2	8.6	-13.0	12.1	-11.1
2001	1	22	15.2	-9.3	2.4	-16.4	10.3	-12.0
2001	1	23	18.4	-7.6	1.9	-16.7	11.2	-11.5
2001	1	24	22.9	-5.1	13.1	-10.5	17.9	-7.9
2001	1	25	23.0	-5.0	6.4	-14.2	14.7	-9.6
2001	1	26	15.1	-9.4	7.7	-13.5	11.2	-11.5
2001	1	27	26.8	-2.9	14.6	-9.7	21.1	-6.1
2001	1	28	20.8	-6.2	11.2	-11.6	13.8	-10.1
2001	1	29	18.3	-7.6	7.8	-13.4	13.7	-10.2
2001	1	30	35.7	2.1	18.4	-7.6	28.3	-2.1
2001	1	31	34.6	1.4	26.6	-3.0	30.3	-0.9
2001	2	1	29.1	-1.6	26.0	-3.3	27.6	-2.5
2001	2	2	27.5	-2.5	5.8	-14.6	23.7	-4.6
2001	2	3	11.5	-11.4	3.7	-15.7	7.9	-13.4
2001	2	4	18.0	-7.8	11.1	-11.6	14.0	-10.0
2001	2	5	29.7	-1.3	16.3	-8.7	26.1	-3.3
2001	2	6	31.4	-0.3	25.0	-3.9	28.6	-1.9
2001	2	7	31.4	-0.3	17.6	-8.0	22.3	-5.4
2001	2	8	24.7	-4.1	18.3	-7.6	21.1	-6.1
2001	2	9	40.9	4.9	25.3	-3.7	32.4	0.2
2001	2	10	44.1	6.7	3.6	-15.8	22.2	-5.5
2001	2	11	4.2	-15.4	-3.1	-19.5	1.4	-17.0
2001	2	12	13.0	-10.6	-0.3	-17.9	3.7	-15.8
2001	2	13	25.2	-3.8	15.4	-9.2	22.9	-5.0
2001	2	14	39.2	4.0	24.1	-4.4	32.7	0.4

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2001	2	15	39.0	3.9	21.2	-6.0	28.0	-2.2
2001	2	16	32.4	0.2	24.2	-4.3	28.2	-2.1
2001	2	17	32.3	0.2	-0.7	-18.2	14.7	-9.6
2001	2	18	7.1	-13.8	-0.6	-18.1	3.4	-15.9
2001	2	19	18.3	-7.6	6.8	-14.0	10.9	-11.7
2001	2	20	33.2	0.7	19.5	-6.9	25.6	-3.6
2001	2	21	34.2	1.2	-3.2	-19.6	12.9	-10.6
2001	2	22	13.1	-10.5	-2.1	-18.9	5.9	-14.5
2001	2	23	23.3	-4.8	11.9	-11.2	15.6	-9.1
2001	2	24	10.9	-11.7	7.1	-13.8	9.4	-12.6
2001	2	25	42.8	6.0	10.2	-12.1	29.8	-1.2
2001	2	26	39.0	3.9	18.6	-7.4	24.9	-4.0
2001	2	27	25.4	-3.7	17.6	-8.0	21.6	-5.8
2001	2	28	20.4	-6.4	1.5	-16.9	7.3	-13.7
2001	3	1	20.6	-6.3	8.4	-13.1	11.2	-11.6
2001	3	2	31.2	-0.4	24.3	-4.3	27.4	-2.6
2001	3	3	31.0	-0.6	20.9	-6.2	28.0	-2.2
2001	3	4	28.0	-2.2	19.5	-6.9	24.1	-4.4
2001	3	5	25.4	-3.7	13.3	-10.4	21.7	-5.7
2001	3	6	21.7	-5.7	7.8	-13.4	16.5	-8.6
2001	3	7	22.6	-5.2	16.0	-8.9	19.3	-7.1
2001	3	8	23.7	-4.6	19.4	-7.0	21.4	-5.9
2001	3	9	30.2	-1.0	20.9	-6.2	26.1	-3.3
2001	3	10	22.3	-5.4	16.1	-8.8	18.1	-7.7
2001	3	11	28.0	-2.2	17.4	-8.1	20.7	-6.3
2001	3	12	19.8	-6.8	8.0	-13.3	13.7	-10.2
2001	3	13	38.1	3.4	27.3	-2.6	33.4	0.8
2001	3	14	34.5	1.4	20.5	-6.4	25.9	-3.4
2001	3	15	30.0	-1.1	22.6	-5.2	26.2	-3.2
2001	3	16	36.5	2.5	26.3	-3.2	30.8	-0.7
2001	3	17	36.3	2.4	28.4	-2.0	34.0	1.1
2001	3	18	27.0	-2.8	10.3	-12.1	17.6	-8.0
2001	3	19	18.5	-7.5	12.4	-10.9	14.7	-9.6
2001	3	20	22.8	-5.1	15.5	-9.2	19.5	-7.0
2001	3	21	33.9	1.1	21.9	-5.6	28.3	-2.0
2001	3	22	33.8	1.0	25.2	-3.8	30.2	-1.0
2001	3	23	26.6	-3.0	14.3	-9.8	21.5	-5.9
2001	3	24	31.2	-0.4	7.9	-13.4	21.1	-6.1
2001	3	25	16.5	-8.6	8.1	-13.3	12.6	-10.8
2001	3	26	20.7	-6.3	2.7	-16.3	12.5	-10.8
2001	3	27	13.5	-10.3	3.0	-16.1	8.8	-12.9
2001	3	28	20.1	-6.6	15.1	-9.4	16.9	-8.4
2001	3	29	32.4	0.2	18.8	-7.3	25.0	-3.9
2001	3	30	36.6	2.6	30.9	-0.6	34.1	1.2
2001	3	31	30.9	-0.6	28.8	-1.8	29.8	-1.3

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2001	4	1	31.3	-0.4	28.0	-2.2	29.2	-1.6
2001	4	2	32.0	0.0	24.4	-4.2	27.8	-2.3
2001	4	3	35.3	1.8	23.5	-4.7	27.9	-2.3
2001	4	4	33.2	0.7	18.0	-7.8	25.8	-3.4
2001	4	5	25.8	-3.4	15.9	-8.9	21.3	-5.9
2001	4	6	44.7	7.1	24.4	-4.2	37.1	2.8
2001	4	7	44.5	6.9	31.6	-0.2	41.1	5.1
2001	4	8	44.3	6.8	29.9	-1.2	38.5	3.6
2001	4	9	55.8	13.2	36.7	2.6	46.4	8.0
2001	4	13	48.1	8.9	23.8	-4.6	36.5	2.5
2001	4	14	29.2	-1.6	22.3	-5.4	26.2	-3.2
2001	4	15	43.2	6.2	25.0	-3.9	31.3	-0.4
2001	4	16	43.1	6.2	36.5	2.5	38.7	3.7
2001	4	17	34.8	1.6	21.9	-5.6	30.2	-1.0
2001	4	18	20.7	-6.3	13.0	-10.6	16.0	-8.9
2001	4	19	24.4	-4.2	13.1	-10.5	19.4	-7.0
2001	4	20	41.8	5.4	23.0	-5.0	29.9	-1.2
2001	4	21	49.1	9.5	40.3	4.6	43.8	6.6
2001	4	22	55.8	13.2	46.7	8.2	52.0	11.1
2001	4	23	54.8	12.7	46.7	8.2	51.5	10.8
2001	4	24	53.2	11.8	26.9	-2.8	44.9	7.2
2001	4	25	28.4	-2.0	20.4	-6.4	23.9	-4.5
2001	4	26	30.1	-1.1	20.3	-6.5	25.3	-3.7
2001	4	27	38.5	3.6	28.1	-2.2	32.9	0.5
2001	4	28	31.9	-0.1	9.4	-12.6	17.7	-7.9
2001	4	29	29.2	-1.6	16.6	-8.6	22.2	-5.4
2001	4	30	33.5	0.8	22.0	-5.6	27.9	-2.3
2001	5	1	41.0	5.0	33.1	0.6	35.9	2.1
2001	5	2	47.3	8.5	33.5	0.8	41.3	5.2
2001	5	3	53.5	11.9	46.1	7.8	48.7	9.3
2001	5	4	55.8	13.2	48.0	8.9	51.4	10.8
2001	5	5	57.1	13.9	19.2	-7.1	37.1	2.8
2001	5	6	33.3	0.7	27.3	-2.6	29.7	-1.3
2001	5	7	34.5	1.4	17.4	-8.1	28.3	-2.1
2001	5	8	40.2	4.6	35.8	2.1	38.1	3.4
2001	5	9	51.9	11.1	35.9	2.2	44.3	6.8
2001	5	10	47.4	8.6	36.7	2.6	42.8	6.0
2001	5	11	49.8	9.9	41.7	5.4	45.1	7.3
2001	5	12	55.3	12.9	39.7	4.3	50.2	10.1
2001	5	13	39.8	4.3	22.2	-5.4	28.8	-1.8
2001	5	14	42.0	5.6	27.6	-2.4	33.9	1.1
2001	5	15	40.8	4.9	21.9	-5.6	30.8	-0.7
2001	5	16	40.2	4.6	31.4	-0.3	36.6	2.6
2001	5	17	46.6	8.1	39.8	4.3	42.8	6.0
2001	5	18	52.3	11.3	46.2	7.9	49.6	9.8

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2001	5	19	53.2	11.8	43.7	6.5	48.8	9.3
2001	5	20	49.0	9.4	41.5	5.3	46.8	8.2
2001	5	21	51.4	10.8	41.4	5.2	46.4	8.0
2001	5	22	56.8	13.8	51.7	10.9	54.1	12.3
2001	5	23	52.0	11.1	46.8	8.2	48.7	9.3
2001	5	24	51.4	10.8	45.0	7.2	48.5	9.2
2001	5	25	51.8	11.0	47.2	8.4	49.8	9.9
2001	5	26	52.2	11.2	49.8	9.9	50.8	10.4
2001	5	27	53.6	12.0	50.4	10.2	51.8	11.0
2001	5	28	50.7	10.4	43.5	6.4	46.7	8.2
2001	5	29	52.9	11.6	42.6	5.9	47.4	8.6
2001	5	30	42.1	5.6	23.0	-5.0	31.5	-0.3
2001	5	31	38.2	3.4	28.1	-2.2	32.3	0.1
2001	6	1	48.2	9.0	32.4	0.2	40.5	4.7
2001	6	2	54.7	12.6	48.1	8.9	51.2	10.7
2001	6	3	52.9	11.6	42.5	5.8	48.1	9.0
2001	6	4	50.6	10.3	44.3	6.8	45.8	7.7
2001	6	5	51.9	11.1	45.0	7.2	47.1	8.4
2001	6	6	51.9	11.1	47.4	8.6	49.9	10.0
2001	6	7	50.3	10.2	42.8	6.0	45.5	7.5
2001	6	8	47.7	8.7	35.0	1.7	42.1	5.6
2001	6	9	47.9	8.8	37.2	2.9	42.6	5.9
2001	6	10	54.8	12.7	42.1	5.6	47.5	8.6
2001	6	11	60.2	15.7	51.1	10.6	54.3	12.4
2001	6	12	63.3	17.4	54.3	12.4	58.5	14.7
2001	6	13	66.3	19.1	61.1	16.2	62.8	17.1
2001	6	14	64.7	18.2	60.9	16.1	62.9	17.1
2001	6	15	64.7	18.2	62.3	16.8	63.5	17.5
2001	6	16	66.5	19.2	60.9	16.1	64.2	17.9
2001	6	17	60.2	15.7	49.8	9.9	55.3	12.9
2001	6	18	58.4	14.7	49.6	9.8	53.6	12.0
2001	6	19	59.0	15.0	54.3	12.4	56.8	13.8
2001	6	20	62.7	17.1	57.3	14.1	60.4	15.8
2001	6	21	62.5	16.9	58.8	14.9	60.9	16.1
2001	6	22	63.3	17.4	59.2	15.1	61.5	16.4
2001	6	23	64.2	17.9	51.1	10.6	59.4	15.2
2001	6	24	56.8	13.8	49.4	9.7	51.9	11.1
2001	6	25	58.1	14.5	50.5	10.3	53.4	11.9
2001	6	26	61.1	16.2	53.5	11.9	56.9	13.8
2001	6	27	64.6	18.1	55.0	12.8	59.5	15.3
2001	6	28	65.2	18.4	54.1	12.3	60.7	15.9
2001	6	29	66.7	19.3	60.7	15.9	63.2	17.3
2001	6	30	65.7	18.7	59.2	15.1	63.0	17.2
2001	7	1	65.5	18.6	41.6	5.3	61.3	16.3
2001	7	2	46.7	8.2	34.7	1.5	38.7	3.7

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2001	7	3	54.8	12.7	41.6	5.3	48.1	9.0
2001	7	4	61.9	16.6	54.8	12.7	59.8	15.4
2001	7	5	61.1	16.2	51.1	10.6	57.3	14.1
2001	7	6	53.5	11.9	42.8	6.0	46.7	8.2
2001	7	7	54.0	12.2	45.5	7.5	48.6	9.2
2001	7	8	65.3	18.5	54.9	12.7	61.1	16.2
2001	7	9	63.3	17.4	57.3	14.1	59.9	15.5
2001	7	10	62.6	17.0	55.9	13.3	59.6	15.3
2001	7	11	60.0	15.6	46.3	7.9	52.6	11.4
2001	7	12	51.1	10.6	46.5	8.1	49.1	9.5
2001	7	13	52.7	11.5	45.2	7.3	49.5	9.7
2001	7	14	51.8	11.0	49.2	9.6	50.5	10.3
2001	7	15	59.8	15.4	48.2	9.0	53.7	12.0
2001	7	16	59.5	15.3	52.8	11.6	56.0	13.3
2001	7	17	62.5	16.9	57.3	14.1	60.2	15.7
2001	7	18	61.9	16.6	58.4	14.7	60.0	15.6
2001	7	19	59.8	15.4	55.9	13.3	57.6	14.2
2001	7	20	57.6	14.2	43.8	6.6	51.7	11.0
2001	7	21	54.2	12.3	47.8	8.8	50.9	10.5
2001	7	22	54.4	12.4	46.2	7.9	51.4	10.8
2001	7	23	62.3	16.8	52.9	11.6	58.1	14.5
2001	7	24	66.6	19.2	60.3	15.7	62.2	16.8
2001	7	25	67.8	19.9	61.7	16.5	64.8	18.2
2001	7	26	66.0	18.9	45.2	7.3	56.6	13.7
2001	7	27	49.6	9.8	40.4	4.7	44.5	6.9
2001	7	28	52.0	11.1	45.3	7.4	48.9	9.4
2001	7	29	52.6	11.4	49.8	9.9	51.3	10.7
2001	7	30	56.3	13.5	52.1	11.2	54.1	12.3
2001	7	31	57.1	13.9	53.5	11.9	55.2	12.9
2001	8	1	60.8	16.0	52.2	11.2	55.3	13.0
2001	8	2	59.4	15.2	51.3	10.7	55.0	12.8
2001	8	3	67.5	19.7	51.7	10.9	60.7	16.0
2001	8	4	66.6	19.2	61.4	16.3	63.9	17.7
2001	8	5	65.3	18.5	59.4	15.2	62.2	16.8
2001	8	6	67.2	19.6	60.5	15.8	63.2	17.4
2001	8	7	67.1	19.5	61.0	16.1	63.6	17.6
2001	8	8	67.9	19.9	59.8	15.4	64.3	17.9
2001	8	9	67.9	19.9	59.2	15.1	63.6	17.6
2001	8	10	68.2	20.1	64.9	18.3	66.5	19.2
2001	8	11	64.4	18.0	54.1	12.3	57.6	14.2
2001	8	12	67.1	19.5	59.7	15.4	63.7	17.6
2001	8	13	65.0	18.3	58.3	14.6	62.9	17.2
2001	8	14	60.2	15.7	54.9	12.7	57.3	14.0
2001	8	15	58.7	14.8	52.0	11.1	55.4	13.0
2001	8	16	62.2	16.8	55.4	13.0	58.2	14.6

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2001	8	17	64.8	18.2	51.8	11.0	58.3	14.6
2001	8	18	58.1	14.5	51.3	10.7	54.8	12.6
2001	8	19	61.8	16.6	53.8	12.1	57.4	14.1
2001	8	20	62.0	16.7	53.5	11.9	58.2	14.6
2001	8	21	56.8	13.8	52.1	11.2	54.7	12.6
2001	8	22	54.9	12.7	49.8	9.9	52.2	11.2
2001	8	23	59.0	15.0	51.6	10.9	55.5	13.1
2001	8	24	59.8	15.4	52.6	11.4	55.6	13.1
2001	8	25	57.9	14.4	47.3	8.5	53.2	11.8
2001	8	26	60.2	15.7	49.1	9.5	55.0	12.8
2001	8	27	64.1	17.8	57.7	14.3	61.7	16.5
2001	8	28	59.9	15.5	56.2	13.4	58.2	14.5
2001	8	29	58.3	14.6	49.8	9.9	54.6	12.6
2001	8	30	62.1	16.7	50.2	10.1	56.3	13.5
2001	8	31	64.3	17.9	60.2	15.7	62.1	16.7
2001	9	1	62.4	16.9	44.4	6.9	50.8	10.5
2001	9	2	49.3	9.6	40.3	4.6	44.0	6.7
2001	9	3	55.5	13.1	42.7	5.9	49.8	9.9
2001	9	4	62.1	16.7	53.2	11.8	58.1	14.5
2001	9	5	52.0	11.1	43.2	6.2	46.7	8.2
2001	9	6	48.4	9.1	37.2	2.9	43.7	6.5
2001	9	7	59.0	15.0	42.8	6.0	51.3	10.7
2001	9	8	61.1	16.2	51.0	10.6	55.9	13.3
2001	9	9	60.6	15.9	52.6	11.4	56.6	13.6
2001	9	10	64.6	18.1	52.9	11.6	58.9	14.9
2001	9	11	53.1	11.7	45.2	7.3	49.4	9.7
2001	9	12	50.5	10.3	44.0	6.7	47.2	8.4
2001	9	13	54.8	12.7	43.9	6.6	49.8	9.9
2001	9	14	48.0	8.9	35.2	1.8	40.4	4.7
2001	9	15	43.3	6.3	35.1	1.7	38.5	3.6
2001	9	16	47.0	8.3	36.2	2.3	41.3	5.2
2001	9	17	48.8	9.3	39.7	4.3	44.4	6.9
2001	9	18	52.0	11.1	42.3	5.7	47.5	8.6
2001	9	19	51.8	11.0	46.8	8.2	49.0	9.5
2001	9	20	58.1	14.5	51.5	10.8	55.6	13.1
2001	9	21	56.8	13.8	49.8	9.9	53.5	11.9
2001	9	22	55.6	13.1	48.8	9.3	51.3	10.7
2001	9	23	52.3	11.3	45.0	7.2	48.7	9.3
2001	9	24	60.7	15.9	47.7	8.7	55.1	12.8
2001	9	25	54.1	12.3	36.5	2.5	47.6	8.6
2001	9	26	41.3	5.2	34.5	1.4	36.5	2.5
2001	9	27	42.7	5.9	37.8	3.2	39.8	4.4
2001	9	28	42.5	5.8	38.3	3.5	39.5	4.2
2001	9	29	43.1	6.2	36.0	2.2	39.7	4.3
2001	9	30	40.7	4.8	32.3	0.2	36.0	2.2

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2001	10	1	44.2	6.8	36.7	2.6	40.0	4.4
2001	10	2	51.5	10.8	37.6	3.1	45.3	7.4
2001	10	3	51.9	11.1	42.6	5.9	48.7	9.3
2001	10	4	49.6	9.8	43.0	6.1	47.1	8.4
2001	10	5	48.4	9.1	41.9	5.5	45.6	7.6
2001	10	6	52.1	11.2	25.4	-3.7	38.3	3.5
2001	10	7	28.3	-2.1	19.6	-6.9	24.6	-4.1
2001	10	8	27.2	-2.7	20.4	-6.4	23.3	-4.8
2001	10	9	28.8	-1.8	21.0	-6.1	24.8	-4.0
2001	10	10	38.1	3.4	28.4	-2.0	33.1	0.6
2001	10	11	47.9	8.8	34.6	1.4	42.2	5.7
2001	10	12	51.8	11.0	40.7	4.8	47.2	8.4
2001	10	13	54.8	12.7	46.8	8.2	51.6	10.9
2001	10	14	54.2	12.3	47.5	8.6	49.9	9.9
2001	10	15	48.8	9.3	33.7	0.9	39.7	4.3
2001	10	16	40.0	4.4	32.6	0.3	36.0	2.2
2001	10	17	37.8	3.2	21.2	-6.0	28.7	-1.8
2001	10	18	28.9	-1.7	22.5	-5.3	25.3	-3.7
2001	10	19	34.5	1.4	26.0	-3.3	30.6	-0.8
2001	10	20	38.8	3.8	33.9	1.1	36.1	2.3
2001	10	21	43.5	6.4	32.3	0.2	38.1	3.4
2001	10	22	46.4	8.0	40.4	4.7	42.7	6.0
2001	10	23	54.7	12.6	41.1	5.1	47.2	8.4
2001	10	24	53.8	12.1	49.9	9.9	52.4	11.3
2001	10	25	52.3	11.3	21.3	-5.9	37.9	3.3
2001	10	26	24.4	-4.2	20.8	-6.2	22.1	-5.5
2001	10	27	28.0	-2.2	21.3	-5.9	24.3	-4.3
2001	10	28	26.3	-3.2	19.5	-6.9	22.3	-5.4
2001	10	29	29.5	-1.4	18.9	-7.3	24.4	-4.2
2001	10	30	33.1	0.6	14.1	-9.9	25.1	-3.9
2001	10	31	36.4	2.4	14.9	-9.5	26.8	-2.9
2001	11	1	43.6	6.4	31.2	-0.4	37.0	2.8
2001	11	2	47.9	8.8	39.6	4.2	44.5	6.9
2001	11	3	50.5	10.3	29.6	-1.3	39.8	4.3
2001	11	4	35.8	2.1	28.0	-2.2	32.2	0.1
2001	11	5	28.2	-2.1	20.4	-6.4	23.4	-4.8
2001	11	6	23.4	-4.8	18.2	-7.7	21.3	-5.9
2001	11	7	40.1	4.5	19.6	-6.9	31.6	-0.2
2001	11	11	34.4	1.3	18.0	-7.8	24.5	-4.2
2001	11	12	26.5	-3.1	20.0	-6.7	23.8	-4.6
2001	11	13	28.2	-2.1	21.7	-5.7	25.6	-3.6
2001	11	14	33.1	0.6	24.6	-4.1	28.8	-1.8
2001	11	15	45.0	7.2	32.2	0.1	40.1	4.5
2001	11	16	45.5	7.5	37.4	3.0	41.0	5.0
2001	11	17	39.1	3.9	24.4	-4.2	30.3	-0.9

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

(Page 8 of 48)

Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2001	11	18	39.9	4.4	25.8	-3.4	33.0	0.6
2001	11	19	43.0	6.1	31.0	-0.6	37.0	2.8
2001	11	20	45.0	7.2	18.8	-7.3	29.1	-1.6
2001	11	21	25.7	-3.5	21.1	-6.1	23.6	-4.7
2001	11	22	29.4	-1.4	23.5	-4.7	26.0	-3.3
2001	11	23	38.6	3.7	26.0	-3.3	29.3	-1.5
2001	11	24	51.9	11.1	39.2	4.0	46.8	8.2
2001	11	25	53.7	12.1	42.7	5.9	50.5	10.3
2001	11	26	44.6	7.0	38.1	3.4	41.6	5.3
2001	11	27	43.8	6.6	33.9	1.1	38.9	3.8
2001	11	28	46.6	8.1	43.5	6.4	45.1	7.3
2001	11	29	47.3	8.5	42.7	5.9	45.1	7.3
2001	11	30	57.4	14.1	47.3	8.5	54.5	12.5
2001	12	1	52.2	11.2	33.9	1.1	41.0	5.0
2001	12	2	35.7	2.1	30.5	-0.8	33.5	0.8
2001	12	3	35.1	1.7	27.3	-2.6	30.1	-1.1
2001	12	4	35.3	1.8	28.1	-2.2	32.0	0.0
2001	12	5	42.3	5.7	35.6	2.0	38.7	3.7
2001	12	6	41.4	5.2	37.4	3.0	39.3	4.0
2001	12	7	45.9	7.7	23.2	-4.9	37.7	3.2
2001	12	8	31.4	-0.3	25.6	-3.6	28.9	-1.7
2001	12	9	32.8	0.4	26.3	-3.2	29.7	-1.3
2001	12	10	30.5	-0.8	21.9	-5.6	26.1	-3.3
2001	12	11	32.6	0.3	27.5	-2.5	30.9	-0.6
2001	12	12	36.4	2.4	24.1	-4.4	30.3	-1.0
2001	12	13	45.5	7.5	37.0	2.8	42.5	5.8
2001	12	14	51.5	10.8	42.5	5.8	45.9	7.7
2001	12	15	37.5	3.1	20.9	-6.2	25.4	-3.7
2001	12	16	25.9	-3.4	20.9	-6.2	22.8	-5.1
2001	12	17	38.8	3.8	22.6	-5.2	31.9	-0.1
2001	12	18	40.3	4.6	27.1	-2.7	33.0	0.5
2001	12	19	30.7	-0.7	25.6	-3.6	28.3	-2.1
2001	12	20	31.3	-0.4	19.3	-7.1	23.8	-4.6
2001	12	21	26.2	-3.2	12.7	-10.7	17.7	-7.9
2001	12	22	20.8	-6.2	13.6	-10.2	17.2	-8.2
2001	12	23	34.2	1.2	19.3	-7.1	23.4	-4.8
2001	12	24	35.7	2.1	15.3	-9.3	23.5	-4.7
2001	12	25	13.9	-10.1	10.9	-11.7	12.3	-11.0
2001	12	26	13.9	-10.1	10.0	-12.2	12.0	-11.1
2001	12	27	14.1	-9.9	8.2	-13.2	10.9	-11.7
2001	12	28	21.9	-5.6	10.2	-12.1	15.0	-9.4
2001	12	29	20.3	-6.5	9.9	-12.3	14.9	-9.5
2001	12	30	9.6	-12.4	3.8	-15.7	6.4	-14.2
2001	12	31	6.0	-14.4	4.2	-15.4	5.2	-14.9
2002	1	1	11.6	-11.3	4.9	-15.1	8.4	-13.1

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2002	1	2	14.3	-9.8	8.2	-13.2	11.9	-11.2
2002	1	3	15.4	-9.2	5.7	-14.6	11.8	-11.2
2002	1	4	17.8	-7.9	10.9	-11.7	14.1	-10.0
2002	1	5	16.8	-8.4	11.2	-11.6	14.1	-9.9
2002	1	6	28.6	-1.9	15.9	-8.9	21.1	-6.1
2002	1	7	28.4	-2.0	11.7	-11.3	23.9	-4.5
2002	1	8	17.0	-8.3	7.8	-13.4	13.1	-10.5
2002	1	9	26.1	-3.3	15.0	-9.4	21.5	-5.8
2002	1	10	32.2	0.1	26.6	-3.0	29.2	-1.5
2002	1	11	32.1	0.1	21.5	-5.8	26.8	-2.9
2002	1	12	23.9	-4.5	21.6	-5.8	22.9	-5.1
2002	1	13	28.8	-1.8	16.0	-8.9	21.8	-5.7
2002	1	14	23.7	-4.6	17.5	-8.1	19.5	-6.9
2002	1	15	26.9	-2.8	22.8	-5.1	25.4	-3.7
2002	1	16	22.9	-5.1	15.3	-9.3	19.0	-7.2
2002	1	17	24.0	-4.4	14.8	-9.6	20.0	-6.7
2002	1	18	17.2	-8.2	8.3	-13.2	12.9	-10.6
2002	1	19	21.0	-6.1	9.9	-12.3	15.7	-9.0
2002	1	20	20.0	-6.7	16.2	-8.8	18.6	-7.5
2002	1	21	28.1	-2.2	17.4	-8.1	23.3	-4.8
2002	1	22	24.8	-4.0	18.1	-7.7	20.8	-6.3
2002	1	23	34.7	1.5	20.7	-6.3	28.5	-1.9
2002	1	24	39.7	4.3	32.9	0.5	36.1	2.3
2002	1	25	31.1	-0.5	16.5	-8.6	21.3	-5.9
2002	1	26	21.2	-6.0	16.2	-8.8	18.6	-7.5
2002	1	27	25.8	-3.4	19.3	-7.1	22.8	-5.1
2002	1	28	33.5	0.8	22.6	-5.2	27.9	-2.3
2002	1	29	44.1	6.7	28.4	-2.0	35.5	2.0
2002	1	30	48.6	9.2	28.1	-2.2	41.6	5.3
2002	1	31	32.5	0.3	26.7	-2.9	30.1	-1.1
2002	2	1	44.6	7.0	16.0	-8.9	32.7	0.4
2002	2	2	15.5	-9.2	8.7	-12.9	11.1	-11.6
2002	2	3	19.2	-7.1	14.9	-9.5	16.3	-8.7
2002	2	4	26.8	-2.9	2.9	-16.2	18.2	-7.7
2002	2	5	9.4	-12.6	0.6	-17.4	4.7	-15.2
2002	2	6	19.8	-6.8	8.6	-13.0	15.9	-8.9
2002	2	7	31.0	-0.6	20.3	-6.5	25.4	-3.7
2002	2	8	24.9	-3.9	19.9	-6.7	22.7	-5.2
2002	2	9	24.5	-4.2	20.1	-6.6	22.9	-5.0
2002	2	10	45.0	7.2	25.4	-3.7	34.7	1.5
2002	2	11	39.2	4.0	-2.2	-19.0	15.5	-9.2
2002	2	12	21.7	-5.7	7.8	-13.4	13.8	-10.1
2002	2	13	23.3	-4.8	1.2	-17.1	9.8	-12.3
2002	2	14	10.1	-12.2	4.0	-15.6	7.3	-13.7
2002	2	15	25.3	-3.7	10.4	-12.0	19.0	-7.3

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

(Page 10 of 48)

Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2002	2	16	26.9	-2.8	19.9	-6.7	23.0	-5.0
2002	2	17	31.0	-0.6	12.8	-10.7	20.1	-6.6
2002	2	18	16.6	-8.6	9.7	-12.4	13.3	-10.4
2002	2	19	18.9	-7.3	13.1	-10.5	15.2	-9.3
2002	2	20	45.0	7.2	18.0	-7.8	28.3	-2.1
2002	2	21	45.2	7.3	28.9	-1.7	35.5	1.9
2002	2	22	29.9	-1.2	23.1	-4.9	25.4	-3.7
2002	2	23	23.1	-4.9	12.2	-11.0	15.2	-9.3
2002	2	24	18.5	-7.5	8.1	-13.3	14.8	-9.6
2002	2	25	25.6	-3.6	16.4	-8.7	20.8	-6.2
2002	2	26	35.3	1.8	23.2	-4.9	28.8	-1.8
2002	2	27	30.0	-1.1	8.1	-13.3	14.8	-9.6
2002	2	28	14.3	-9.8	5.5	-14.7	9.5	-12.5
2002	3	1	16.5	-8.6	9.6	-12.4	12.5	-10.8
2002	3	2	37.7	3.2	15.9	-8.9	22.1	-5.5
2002	3	3	45.0	7.2	15.1	-9.4	36.9	2.7
2002	3	4	15.3	-9.3	0.0	-17.8	7.6	-13.5
2002	3	5	14.8	-9.6	-2.6	-19.2	5.4	-14.8
2002	3	6	23.4	-4.8	14.5	-9.7	19.7	-6.8
2002	3	7	25.8	-3.4	22.2	-5.4	23.8	-4.6
2002	3	8	37.0	2.8	25.7	-3.5	29.7	-1.3
2002	3	9	52.8	11.6	37.0	2.8	47.5	8.6
2002	3	10	47.8	8.8	2.9	-16.2	11.6	-11.3
2002	3	11	13.6	-10.2	5.3	-14.8	8.4	-13.1
2002	3	12	25.6	-3.6	13.3	-10.4	21.0	-6.1
2002	3	13	38.8	3.8	26.0	-3.3	34.1	1.2
2002	3	14	39.2	4.0	35.8	2.1	37.8	3.2
2002	3	15	49.6	9.8	37.3	2.9	44.4	6.9
2002	3	16	51.5	10.8	19.1	-7.2	37.4	3.0
2002	3	17	27.0	-2.8	15.7	-9.1	20.1	-6.6
2002	3	18	32.3	0.2	25.9	-3.4	29.3	-1.5
2002	3	19	32.9	0.5	24.1	-4.4	26.5	-3.1
2002	3	20	35.9	2.2	25.6	-3.6	31.6	-0.3
2002	3	21	30.5	-0.8	4.3	-15.4	25.0	-3.9
2002	3	22	8.7	-12.9	-0.8	-18.2	3.2	-16.0
2002	3	23	13.3	-10.4	6.7	-14.1	10.9	-11.7
2002	3	24	33.5	0.8	12.8	-10.7	20.6	-6.4
2002	3	25	33.4	0.8	18.8	-7.3	24.8	-4.0
2002	3	26	37.6	3.1	23.1	-4.9	29.4	-1.5
2002	3	27	36.2	2.3	20.5	-6.4	27.4	-2.6
2002	3	28	22.1	-5.5	15.0	-9.4	19.8	-6.8
2002	3	29	37.8	3.2	21.4	-5.9	29.8	-1.2
2002	3	30	43.5	6.4	24.0	-4.4	32.2	0.1
2002	3	31	41.9	5.5	26.3	-3.2	31.4	-0.3
2002	4	1	40.3	4.6	17.5	-8.1	29.2	-1.5

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2002	4	2	41.7	5.4	19.2	-7.1	27.8	-2.3
2002	4	3	43.4	6.3	19.8	-6.8	34.8	1.5
2002	4	4	19.6	-6.9	14.1	-9.9	16.7	-8.5
2002	4	5	19.2	-7.1	15.1	-9.4	17.3	-8.2
2002	4	6	20.5	-6.4	12.1	-11.1	16.7	-8.5
2002	4	7	20.2	-6.6	12.2	-11.0	15.7	-9.1
2002	4	8	40.2	4.6	21.3	-5.9	31.3	-0.4
2002	4	9	54.3	12.4	40.8	4.9	48.4	9.1
2002	4	10	47.2	8.4	27.2	-2.7	31.2	-0.4
2002	4	11	34.7	1.5	26.9	-2.8	30.1	-1.0
2002	4	12	48.3	9.1	23.0	-5.0	37.8	3.2
2002	4	13	55.7	13.2	49.1	9.5	53.1	11.7
2002	4	14	56.4	13.6	48.0	8.9	51.1	10.6
2002	4	15	55.2	12.9	51.9	11.1	54.2	12.3
2002	4	16	59.2	15.1	51.2	10.7	55.3	13.0
2002	4	17	56.0	13.3	51.4	10.8	53.5	11.9
2002	4	18	57.5	14.2	52.8	11.6	55.0	12.8
2002	4	19	58.6	14.8	52.1	11.2	55.7	13.2
2002	4	20	56.1	13.4	35.0	1.7	44.8	7.1
2002	4	21	37.0	2.8	21.0	-6.1	28.3	-2.1
2002	4	22	40.0	4.4	25.4	-3.7	33.7	1.0
2002	4	23	23.5	-4.7	17.2	-8.2	19.9	-6.7
2002	4	24	25.6	-3.6	19.4	-7.0	23.3	-4.8
2002	4	25	39.8	4.3	19.6	-6.9	31.1	-0.5
2002	4	26	28.7	-1.8	19.1	-7.2	23.8	-4.6
2002	4	27	35.5	1.9	23.5	-4.7	25.8	-3.5
2002	4	28	53.5	11.9	38.7	3.7	46.3	8.0
2002	4	29	45.6	7.6	26.7	-2.9	33.2	0.6
2002	4	30	42.0	5.6	28.8	-1.8	35.1	1.7
2002	5	1	36.3	2.4	21.3	-5.9	29.6	-1.3
2002	5	2	59.3	15.2	32.3	0.2	46.4	8.0
2002	5	3	40.2	4.6	19.8	-6.8	24.7	-4.1
2002	5	4	29.1	-1.6	20.6	-6.3	26.2	-3.2
2002	5	5	39.3	4.1	28.8	-1.8	34.4	1.3
2002	5	11	35.4	1.9	21.9	-5.6	27.4	-2.6
2002	5	12	51.3	10.7	33.6	0.9	45.7	7.6
2002	5	13	56.5	13.6	43.6	6.4	52.2	11.2
2002	5	14	41.6	5.3	30.8	-0.7	35.1	1.7
2002	5	15	37.3	2.9	29.5	-1.4	31.9	0.0
2002	5	16	47.7	8.7	34.8	1.6	41.2	5.1
2002	5	17	52.4	11.3	38.3	3.5	46.3	8.0
2002	5	18	40.5	4.7	27.2	-2.7	33.4	0.8
2002	5	19	32.4	0.2	21.3	-5.9	25.7	-3.5
2002	5	20	30.0	-1.1	24.8	-4.0	27.9	-2.3
2002	5	21	33.1	0.6	25.5	-3.6	28.8	-1.8

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2002	5	22	35.1	1.7	27.2	-2.7	31.0	-0.5
2002	5	23	39.8	4.3	29.2	-1.6	33.8	1.0
2002	5	24	51.1	10.6	38.6	3.7	45.4	7.5
2002	5	25	45.6	7.6	31.8	-0.1	37.7	3.2
2002	5	26	55.5	13.1	43.8	6.6	50.3	10.2
2002	5	27	56.0	13.3	42.2	5.7	50.6	10.3
2002	5	28	59.7	15.4	52.2	11.2	55.0	12.8
2002	5	29	58.6	14.8	52.2	11.2	54.7	12.6
2002	5	30	57.1	13.9	53.0	11.7	55.3	12.9
2002	5	31	59.3	15.2	52.5	11.4	56.4	13.5
2002	6	1	56.1	13.4	44.9	7.2	51.0	10.6
2002	6	2	49.5	9.7	33.9	1.1	41.6	5.3
2002	6	3	43.9	6.6	34.0	1.1	37.1	2.9
2002	6	4	50.7	10.4	38.2	3.4	44.6	7.0
2002	6	5	65.6	18.7	49.8	9.9	59.3	15.1
2002	6	6	58.2	14.6	49.8	9.9	54.4	12.4
2002	6	7	50.3	10.2	44.4	6.9	46.6	8.1
2002	6	8	50.0	10.0	45.1	7.3	48.1	8.9
2002	6	9	60.0	15.6	46.5	8.1	53.0	11.7
2002	6	10	59.1	15.1	51.5	10.8	54.3	12.4
2002	6	11	63.0	17.2	53.3	11.8	59.2	15.1
2002	6	12	64.2	17.9	57.8	14.3	60.5	15.8
2002	6	13	57.1	13.9	51.9	11.1	54.2	12.4
2002	6	14	52.4	11.3	48.0	8.9	49.4	9.6
2002	6	15	51.1	10.6	46.8	8.2	48.9	9.4
2002	6	16	50.6	10.3	45.2	7.3	47.4	8.5
2002	6	17	48.5	9.2	41.6	5.3	44.7	7.0
2002	6	18	49.3	9.6	40.4	4.7	45.5	7.5
2002	6	19	53.7	12.1	45.8	7.7	50.1	10.1
2002	6	20	56.5	13.6	49.0	9.4	52.9	11.6
2002	6	21	56.2	13.4	50.7	10.4	53.9	12.2
2002	6	22	60.0	15.6	50.7	10.4	55.1	12.8
2002	6	23	60.2	15.7	55.7	13.2	58.2	14.6
2002	6	24	63.3	17.4	56.8	13.8	60.7	15.9
2002	6	25	64.0	17.8	59.8	15.4	61.5	16.4
2002	6	26	65.3	18.5	58.4	14.7	61.6	16.4
2002	6	27	62.9	17.2	57.8	14.3	60.2	15.7
2002	6	28	59.1	15.1	54.1	12.3	57.0	13.9
2002	6	29	58.4	14.7	47.2	8.4	53.0	11.7
2002	6	30	59.6	15.3	53.0	11.7	56.2	13.4
2002	7	1	61.4	16.3	53.4	11.9	57.7	14.3
2002	7	2	70.8	21.6	56.9	13.8	64.2	17.9
2002	7	3	67.9	19.9	64.8	18.2	65.6	18.7
2002	7	4	66.3	19.1	61.7	16.5	64.1	17.9
2002	7	5	60.2	15.7	45.0	7.2	48.9	9.4

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2002	7	6	52.2	11.2	42.9	6.1	46.7	8.2
2002	7	7	53.5	11.9	44.5	6.9	49.8	9.9
2002	7	8	56.0	13.3	48.3	9.1	51.9	11.0
2002	7	9	62.9	17.2	54.3	12.4	58.7	14.9
2002	7	10	60.7	15.9	35.7	2.1	47.2	8.4
2002	7	11	41.7	5.4	36.6	2.6	39.4	4.1
2002	7	12	45.3	7.4	38.1	3.4	41.5	5.3
2002	7	13	52.5	11.4	41.5	5.3	47.7	8.7
2002	7	14	57.7	14.3	51.8	11.0	54.9	12.7
2002	7	15	59.0	15.0	51.3	10.7	54.4	12.5
2002	7	16	54.4	12.4	43.1	6.2	48.6	9.2
2002	7	17	61.3	16.3	44.7	7.1	53.5	11.9
2002	7	18	62.1	16.7	56.7	13.7	59.5	15.3
2002	7	19	62.7	17.1	58.2	14.6	60.1	15.6
2002	7	20	59.0	15.0	53.2	11.8	56.4	13.6
2002	7	21	61.4	16.3	53.1	11.7	58.1	14.5
2002	7	22	63.4	17.4	56.6	13.7	60.0	15.6
2002	7	23	64.7	18.2	56.6	13.7	60.7	15.9
2002	7	24	56.0	13.3	51.6	10.9	54.1	12.3
2002	7	25	54.2	12.3	43.3	6.3	49.6	9.8
2002	7	26	51.3	10.7	42.1	5.6	47.9	8.8
2002	7	27	61.5	16.4	50.8	10.4	57.1	14.0
2002	7	28	68.7	20.4	60.0	15.6	64.1	17.9
2002	7	29	67.0	19.4	63.2	17.3	64.9	18.3
2002	7	30	65.3	18.5	56.1	13.4	60.6	15.9
2002	7	31	60.2	15.7	53.2	11.8	57.1	14.0
2002	8	1	62.7	17.1	57.7	14.3	59.8	15.4
2002	8	2	62.7	17.1	57.2	14.0	59.6	15.3
2002	8	3	60.9	16.1	57.4	14.1	59.1	15.0
2002	8	4	64.1	17.8	55.9	13.3	59.3	15.1
2002	8	5	63.5	17.5	56.7	13.7	60.5	15.8
2002	8	6	62.0	16.7	39.6	4.2	44.0	6.6
2002	8	7	46.0	7.8	40.8	4.9	43.4	6.3
2002	8	8	48.1	8.9	41.5	5.3	43.5	6.4
2002	8	9	48.1	8.9	42.2	5.7	44.7	7.0
2002	8	10	49.9	9.9	43.5	6.4	46.6	8.1
2002	8	11	54.5	12.5	47.4	8.6	51.4	10.8
2002	8	12	58.7	14.8	52.0	11.1	54.6	12.6
2002	8	13	60.7	15.9	54.0	12.2	56.5	13.6
2002	8	14	61.5	16.4	53.9	12.2	56.6	13.7
2002	8	15	61.8	16.6	52.6	11.4	58.1	14.5
2002	8	16	65.3	18.5	60.3	15.7	62.1	16.7
2002	8	17	62.9	17.2	59.4	15.2	60.9	16.1
2002	8	18	63.7	17.6	58.5	14.7	60.9	16.0
2002	8	19	59.5	15.3	50.4	10.2	55.4	13.0

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2002	8	20	60.1	15.6	47.8	8.8	54.6	12.6
2002	8	21	51.9	11.1	46.8	8.2	48.2	9.0
2002	8	22	62.6	17.0	49.0	9.4	56.8	13.8
2002	8	23	62.8	17.1	56.0	13.3	58.2	14.6
2002	8	24	63.2	17.3	57.5	14.2	59.9	15.5
2002	8	25	58.0	14.4	47.4	8.6	52.7	11.5
2002	8	26	53.9	12.2	48.8	9.3	51.2	10.7
2002	8	27	55.1	12.8	50.0	10.0	52.9	11.6
2002	8	28	52.5	11.4	45.0	7.2	48.5	9.2
2002	8	29	49.5	9.7	46.4	8.0	48.1	9.0
2002	8	30	52.8	11.6	46.7	8.2	49.5	9.7
2002	8	31	53.7	12.1	46.5	8.1	50.2	10.1
2002	9	1	51.3	10.7	42.8	6.0	47.9	8.8
2002	9	2	55.8	13.2	49.9	9.9	52.3	11.3
2002	9	3	61.5	16.4	49.8	9.9	56.1	13.4
2002	9	4	61.3	16.3	45.5	7.5	52.8	11.6
2002	9	5	52.1	11.2	43.9	6.6	48.2	9.0
2002	9	6	44.6	7.0	36.4	2.4	41.6	5.3
2002	9	7	48.8	9.3	40.7	4.8	44.2	6.8
2002	9	8	48.2	9.0	38.3	3.5	44.1	6.7
2002	9	9	52.3	11.3	41.7	5.4	47.5	8.6
2002	9	10	54.2	12.3	44.6	7.0	48.9	9.4
2002	9	11	49.3	9.6	36.1	2.3	42.5	5.8
2002	9	12	38.5	3.6	32.5	0.3	35.3	1.8
2002	9	13	42.3	5.7	34.4	1.3	39.0	3.9
2002	9	14	60.1	15.6	40.8	4.9	50.6	10.3
2002	9	15	61.5	16.4	57.9	14.4	59.9	15.5
2002	9	16	60.3	15.7	50.4	10.2	56.7	13.7
2002	9	17	53.7	12.1	46.4	8.0	49.8	9.9
2002	9	18	50.0	10.0	42.6	5.9	47.1	8.4
2002	9	19	56.7	13.7	46.1	7.8	52.1	11.2
2002	9	20	59.4	15.2	52.8	11.6	56.3	13.5
2002	9	21	61.3	16.3	56.6	13.7	59.6	15.3
2002	9	22	61.4	16.3	55.6	13.1	59.9	15.5
2002	9	23	54.4	12.4	38.8	3.8	44.3	6.8
2002	9	24	45.8	7.7	37.5	3.1	42.1	5.6
2002	9	25	46.1	7.8	40.2	4.6	43.2	6.2
2002	9	26	47.2	8.4	43.9	6.6	45.2	7.3
2002	9	27	62.9	17.2	44.8	7.1	53.1	11.7
2002	9	28	56.4	13.6	40.1	4.5	45.8	7.7
2002	9	29	46.1	7.8	35.6	2.0	40.9	5.0
2002	9	30	50.8	10.4	40.8	4.9	46.6	8.1
2002	10	1	57.0	13.9	42.8	6.0	51.0	10.6
2002	10	2	60.3	15.7	50.0	10.0	55.7	13.2
2002	10	3	58.6	14.8	51.3	10.7	54.3	12.4

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2002	10	4	58.6	14.8	50.8	10.4	53.2	11.8
2002	10	5	60.5	15.8	38.6	3.7	50.8	10.5
2002	10	6	44.0	6.7	36.7	2.6	39.7	4.3
2002	10	7	50.9	10.5	29.0	-1.7	41.6	5.3
2002	10	8	35.4	1.9	29.9	-1.2	32.0	0.0
2002	10	9	44.8	7.1	32.2	0.1	37.6	3.1
2002	10	10	49.6	9.8	45.3	7.4	47.4	8.6
2002	10	11	47.3	8.5	44.9	7.2	45.9	7.7
2002	10	12	49.3	9.6	45.0	7.2	47.5	8.6
2002	10	13	50.6	10.3	34.1	1.2	46.4	8.0
2002	10	14	32.4	0.2	24.0	-4.4	27.3	-2.6
2002	10	15	36.7	2.6	25.6	-3.6	31.8	-0.1
2002	10	16	40.8	4.9	36.7	2.6	39.4	4.1
2002	10	17	39.7	4.3	30.7	-0.7	34.9	1.6
2002	10	18	33.6	0.9	28.1	-2.2	30.6	-0.8
2002	10	19	41.1	5.1	30.9	-0.6	36.1	2.3
2002	10	20	34.2	1.2	28.5	-1.9	31.6	-0.3
2002	10	21	32.4	0.2	25.7	-3.5	28.3	-2.1
2002	10	22	34.4	1.3	23.2	-4.9	29.3	-1.5
2002	10	23	32.2	0.1	24.9	-3.9	28.6	-1.9
2002	10	24	28.2	-2.1	22.1	-5.5	24.9	-4.0
2002	10	25	34.1	1.2	27.4	-2.6	30.9	-0.6
2002	10	26	43.2	6.2	34.8	1.6	40.2	4.6
2002	10	27	39.0	3.9	29.8	-1.2	34.3	1.3
2002	10	28	31.0	-0.6	24.1	-4.4	27.4	-2.5
2002	10	29	26.1	-3.3	19.6	-6.9	23.2	-4.9
2002	10	30	26.7	-2.9	24.2	-4.3	25.7	-3.5
2002	10	31	28.0	-2.2	23.4	-4.8	26.0	-3.3
2002	11	1	29.3	-1.5	17.0	-8.3	24.0	-4.4
2002	11	2	23.7	-4.6	18.8	-7.3	21.3	-5.9
2002	11	3	24.5	-4.2	20.8	-6.2	22.6	-5.2
2002	11	6	40.2	4.6	24.6	-4.1	34.3	1.3
2002	11	8	32.6	0.3	19.2	-7.1	28.1	-2.2
2002	11	9	39.2	4.0	29.6	-1.3	34.3	1.3
2002	11	10	55.2	12.9	40.0	4.4	48.8	9.3
2002	11	11	57.1	13.9	43.0	6.1	52.2	11.2
2002	11	12	43.6	6.4	38.8	3.8	41.1	5.1
2002	11	13	41.0	5.0	28.3	-2.1	33.5	0.8
2002	11	14	34.0	1.1	28.6	-1.9	31.8	-0.1
2002	11	15	34.4	1.3	29.8	-1.2	32.2	0.1
2002	11	16	34.5	1.4	30.6	-0.8	33.0	0.5
2002	11	17	33.8	1.0	29.5	-1.4	32.0	0.0
2002	11	18	29.2	-1.6	21.3	-5.9	24.9	-3.9
2002	11	19	31.9	-0.1	22.1	-5.5	25.8	-3.5
2002	11	20	33.9	1.1	28.0	-2.2	31.2	-0.4

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2002	11	21	39.1	3.9	25.6	-3.6	33.3	0.7
2002	11	22	40.4	4.7	31.0	-0.6	36.8	2.7
2002	11	23	29.3	-1.5	17.4	-8.1	20.9	-6.2
2002	11	24	27.0	-2.8	22.7	-5.2	25.2	-3.8
2002	11	25	31.1	-0.5	25.0	-3.9	28.2	-2.1
2002	11	26	27.2	-2.7	17.6	-8.0	22.0	-5.6
2002	11	27	26.2	-3.2	10.1	-12.2	18.4	-7.6
2002	11	28	16.5	-8.6	9.8	-12.3	13.0	-10.6
2002	11	29	21.2	-6.0	13.6	-10.2	17.7	-7.9
2002	11	30	28.0	-2.2	20.5	-6.4	23.4	-4.8
2002	12	1	20.6	-6.3	6.0	-14.4	12.2	-11.0
2002	12	2	18.8	-7.3	6.8	-14.0	12.4	-10.9
2002	12	3	12.0	-11.1	-7.1	-21.7	-0.7	-18.2
2002	12	4	11.4	-11.4	0.3	-17.6	6.4	-14.2
2002	12	5	18.6	-7.4	11.3	-11.5	15.7	-9.1
2002	12	6	19.0	-7.2	10.5	-11.9	15.9	-8.9
2002	12	7	12.0	-11.1	2.2	-16.6	8.5	-13.0
2002	12	8	27.7	-2.4	8.2	-13.2	16.7	-8.5
2002	12	9	3.9	-15.6	-1.2	-18.4	1.4	-17.0
2002	12	10	9.7	-12.4	0.5	-17.5	5.8	-14.5
2002	12	11	28.6	-1.9	6.7	-14.1	18.4	-7.6
2002	12	12	30.3	-0.9	27.5	-2.5	28.8	-1.8
2002	12	13	31.0	-0.6	27.6	-2.4	28.7	-1.9
2002	12	14	34.7	1.5	27.1	-2.7	31.9	-0.1
2002	12	15	27.8	-2.3	23.2	-4.9	24.9	-3.9
2002	12	16	30.5	-0.8	7.1	-13.8	19.2	-7.1
2002	12	17	11.6	-11.3	7.2	-13.8	9.6	-12.5
2002	12	18	11.5	-11.4	4.7	-15.2	8.8	-12.9
2002	12	19	37.2	2.9	11.4	-11.4	21.9	-5.6
2002	12	20	48.3	9.1	21.2	-6.0	35.9	2.1
2002	12	21	26.6	-3.0	20.2	-6.6	22.5	-5.3
2002	12	22	31.2	-0.4	18.9	-7.3	23.4	-4.8
2002	12	23	20.8	-6.2	16.9	-8.4	18.5	-7.5
2002	12	24	19.4	-7.0	11.7	-11.3	14.0	-10.0
2002	12	25	26.6	-3.0	18.5	-7.5	23.1	-5.0
2002	12	26	21.5	-5.8	13.2	-10.4	17.7	-7.9
2002	12	27	19.9	-6.7	16.0	-8.9	18.7	-7.4
2002	12	28	25.5	-3.6	9.6	-12.4	16.5	-8.6
2002	12	29	26.0	-3.3	17.1	-8.3	22.7	-5.2
2002	12	30	23.8	-4.6	14.9	-9.5	18.8	-7.4
2002	12	31	31.8	-0.1	25.1	-3.8	29.6	-1.4
2003	1	1	32.2	0.1	28.5	-1.9	29.7	-1.3
2003	1	2	29.0	-1.7	19.5	-6.9	22.9	-5.1
2003	1	3	24.2	-4.3	18.2	-7.7	21.9	-5.6
2003	1	4	24.2	-4.3	21.4	-5.9	23.0	-5.0

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2003	1	5	22.6	-5.2	18.0	-7.8	20.1	-6.6
2003	1	6	23.2	-4.9	20.5	-6.4	21.5	-5.8
2003	1	7	18.9	-7.3	4.6	-15.2	11.9	-11.2
2003	1	8	27.6	-2.4	17.0	-8.3	24.1	-4.4
2003	1	9	27.7	-2.4	24.9	-3.9	26.0	-3.3
2003	1	10	26.7	-2.9	7.3	-13.7	17.8	-7.9
2003	1	11	11.8	-11.2	1.2	-17.1	5.0	-15.0
2003	1	12	11.4	-11.4	4.0	-15.6	8.3	-13.1
2003	1	13	11.8	-11.2	0.6	-17.4	7.6	-13.5
2003	1	14	8.0	-13.3	0.3	-17.6	4.0	-15.6
2003	1	15	12.0	-11.1	1.5	-16.9	5.9	-14.5
2003	1	16	11.8	-11.2	0.7	-17.4	4.5	-15.3
2003	1	17	12.4	-10.9	-8.9	-22.7	5.0	-15.0
2003	1	18	0.4	-17.6	-10.5	-23.6	-4.3	-20.2
2003	1	19	9.1	-12.7	-2.8	-19.3	2.7	-16.3
2003	1	20	16.9	-8.4	-4.4	-20.2	3.0	-16.1
2003	1	21	2.1	-16.6	-6.1	-21.2	-2.5	-19.2
2003	1	22	1.4	-17.0	-10.9	-23.8	-4.2	-20.1
2003	1	23	-1.1	-18.4	-12.2	-24.6	-6.8	-21.6
2003	1	24	1.5	-16.9	-9.4	-23.0	-5.0	-20.6
2003	1	25	7.1	-13.8	2.3	-16.5	4.7	-15.2
2003	1	26	20.4	-6.4	7.0	-13.9	13.6	-10.2
2003	1	27	3.8	-15.7	-11.6	-24.2	-8.7	-22.6
2003	1	28	7.1	-13.8	-9.6	-23.1	-1.3	-18.5
2003	1	29	20.1	-6.6	7.5	-13.6	15.3	-9.3
2003	1	30	13.9	-10.1	6.6	-14.1	11.2	-11.6
2003	1	31	28.2	-2.1	10.1	-12.2	17.9	-7.9
2003	2	1	29.4	-1.4	27.3	-2.6	28.3	-2.0
2003	2	2	28.6	-1.9	18.4	-7.6	23.5	-4.7
2003	2	3	24.6	-4.1	20.9	-6.2	22.3	-5.4
2003	2	4	35.3	1.8	15.7	-9.1	25.9	-3.4
2003	2	5	14.3	-9.8	2.4	-16.4	6.6	-14.1
2003	2	6	17.9	-7.8	2.3	-16.5	8.7	-13.0
2003	2	7	22.3	-5.4	7.2	-13.8	18.1	-7.7
2003	2	8	6.1	-14.4	-1.2	-18.4	2.9	-16.2
2003	2	9	16.5	-8.6	0.2	-17.7	8.7	-13.0
2003	2	10	24.6	-4.1	12.7	-10.7	18.6	-7.5
2003	2	11	17.6	-8.0	-8.3	-22.4	2.4	-16.4
2003	2	12	16.6	-8.6	-5.2	-20.7	2.8	-16.2
2003	2	13	2.2	-16.6	-3.4	-19.7	-1.5	-18.6
2003	2	14	4.9	-15.1	-2.1	-18.9	1.2	-17.1
2003	2	15	5.5	-14.7	-13.9	-25.5	-2.9	-19.4
2003	2	16	6.4	-14.2	-14.7	-25.9	-7.3	-21.8
2003	2	17	15.0	-9.4	4.7	-15.2	9.7	-12.4
2003	2	18	19.8	-6.8	12.0	-11.1	16.1	-8.8

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2003	2	19	26.9	-2.8	18.4	-7.6	21.2	-6.0
2003	2	20	27.3	-2.6	17.2	-8.2	21.9	-5.6
2003	2	21	30.1	-1.1	9.4	-12.6	17.6	-8.0
2003	2	22	36.6	2.6	28.2	-2.1	32.2	0.1
2003	2	23	36.0	2.2	12.8	-10.7	26.8	-2.9
2003	2	24	18.9	-7.3	7.3	-13.7	12.1	-11.1
2003	2	25	17.0	-8.3	-2.8	-19.3	5.3	-14.8
2003	2	26	7.5	-13.6	-3.0	-19.4	1.7	-16.8
2003	2	27	13.7	-10.2	7.9	-13.4	11.4	-11.4
2003	2	28	19.0	-7.2	10.4	-12.0	13.2	-10.4
2003	3	1	27.3	-2.6	19.2	-7.1	23.2	-4.9
2003	3	2	32.1	0.1	23.0	-5.0	28.2	-2.1
2003	3	3	22.2	-5.4	-19.0	-28.3	-9.4	-23.0
2003	3	4	16.0	-8.9	-5.9	-21.1	5.0	-15.0
2003	3	5	26.4	-3.1	16.8	-8.4	22.6	-5.2
2003	3	6	23.0	-5.0	2.8	-16.2	13.6	-10.2
2003	3	7	10.7	-11.8	-8.8	-22.7	3.0	-16.1
2003	3	8	22.9	-5.1	6.1	-14.4	15.2	-9.3
2003	3	9	26.7	-2.9	-6.8	-21.6	13.5	-10.3
2003	3	10	-0.6	-18.1	-6.8	-21.6	-3.9	-20.0
2003	3	11	19.3	-7.1	-1.6	-18.7	8.4	-13.1
2003	3	12	25.9	-3.4	14.9	-9.5	20.3	-6.5
2003	3	13	23.8	-4.6	12.8	-10.7	21.5	-5.9
2003	3	14	12.2	-11.0	0.6	-17.4	5.6	-14.7
2003	3	15	22.7	-5.2	12.2	-11.0	17.6	-8.0
2003	3	16	40.3	4.6	18.4	-7.6	28.4	-2.0
2003	3	17	44.0	6.7	27.3	-2.6	34.4	1.3
2003	3	18	38.2	3.4	27.7	-2.4	32.5	0.3
2003	3	19	28.7	-1.8	12.0	-11.1	19.7	-6.9
2003	3	20	35.6	2.0	15.8	-9.0	26.1	-3.3
2003	3	21	41.9	5.5	32.6	0.3	36.6	2.6
2003	3	22	36.8	2.7	26.8	-2.9	31.0	-0.6
2003	3	23	27.5	-2.5	23.9	-4.5	25.4	-3.7
2003	3	24	32.2	0.1	22.9	-5.1	27.5	-2.5
2003	3	25	37.2	2.9	25.5	-3.6	32.1	0.1
2003	3	26	36.8	2.7	28.7	-1.8	33.0	0.6
2003	3	27	31.9	-0.1	26.5	-3.1	29.3	-1.5
2003	3	28	42.0	5.6	26.6	-3.0	32.5	0.3
2003	3	29	50.8	10.4	39.3	4.1	45.1	7.3
2003	3	30	36.3	2.4	16.8	-8.4	24.5	-4.2
2003	3	31	18.9	-7.3	6.2	-14.3	11.9	-11.2
2003	4	1	28.9	-1.7	7.6	-13.6	18.9	-7.3
2003	4	2	42.2	5.7	28.9	-1.7	36.0	2.2
2003	4	3	41.1	5.1	33.1	0.6	36.6	2.6
2003	4	4	33.0	0.6	27.0	-2.8	30.6	-0.8

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2003	4	5	34.7	1.5	23.1	-4.9	28.8	-1.8
2003	4	6	18.8	-7.3	9.2	-12.7	12.4	-10.9
2003	4	7	22.2	-5.4	12.2	-11.0	17.7	-7.9
2003	4	8	24.8	-4.0	20.4	-6.4	22.7	-5.2
2003	4	9	28.5	-1.9	24.2	-4.3	26.3	-3.2
2003	4	10	28.2	-2.1	16.9	-8.4	23.7	-4.6
2003	4	11	36.5	2.5	16.0	-8.9	28.7	-1.8
2003	4	12	34.3	1.3	24.4	-4.2	29.4	-1.4
2003	4	13	25.4	-3.7	12.6	-10.8	18.3	-7.6
2003	4	14	32.8	0.4	18.7	-7.4	23.6	-4.7
2003	4	15	40.9	4.9	29.7	-1.3	36.3	2.4
2003	4	16	41.8	5.4	28.1	-2.2	37.1	2.8
2003	4	17	26.8	-2.9	17.6	-8.0	21.4	-5.9
2003	4	18	31.3	-0.4	15.0	-9.4	23.3	-4.8
2003	4	19	36.8	2.7	24.2	-4.3	32.7	0.4
2003	4	20	34.2	1.2	23.9	-4.5	28.0	-2.2
2003	4	21	42.7	5.9	27.5	-2.5	35.7	2.0
2003	4	22	45.0	7.2	26.9	-2.8	39.2	4.0
2003	4	23	26.4	-3.1	20.4	-6.4	22.5	-5.3
2003	4	24	19.9	-6.7	9.7	-12.4	15.1	-9.4
2003	4	25	34.3	1.3	19.2	-7.1	25.4	-3.7
2003	4	26	44.5	6.9	37.4	3.0	42.5	5.8
2003	4	27	43.0	6.1	20.6	-6.3	30.1	-1.0
2003	4	28	33.8	1.0	26.9	-2.8	30.3	-0.9
2003	4	29	44.4	6.9	29.7	-1.3	37.7	3.2
2003	4	30	34.0	1.1	27.2	-2.7	30.7	-0.7
2003	5	1	54.1	12.3	31.6	-0.2	45.1	7.3
2003	5	2	53.0	11.7	36.9	2.7	46.9	8.3
2003	5	3	36.6	2.6	25.5	-3.6	30.1	-1.0
2003	5	4	33.2	0.7	25.5	-3.6	28.7	-1.8
2003	5	5	34.8	1.6	27.4	-2.6	31.0	-0.6
2003	5	6	46.6	8.1	28.7	-1.8	39.2	4.0
2003	5	9	53.7	12.1	39.1	3.9	47.9	8.8
2003	5	10	55.7	13.2	41.0	5.0	49.4	9.7
2003	5	11	62.0	16.7	46.8	8.2	57.3	14.0
2003	5	12	43.5	6.4	38.6	3.7	40.7	4.8
2003	5	13	38.9	3.8	35.0	1.7	37.1	2.8
2003	5	14	40.5	4.7	36.1	2.3	38.0	3.3
2003	5	15	42.9	6.1	36.0	2.2	39.7	4.3
2003	5	16	46.3	7.9	38.9	3.8	41.5	5.3
2003	5	17	44.1	6.7	38.2	3.4	40.7	4.9
2003	5	18	43.1	6.2	31.7	-0.2	38.5	3.6
2003	5	19	38.4	3.6	29.0	-1.7	34.3	1.3
2003	5	20	42.8	6.0	31.3	-0.4	36.5	2.5
2003	5	21	49.8	9.9	38.0	3.3	43.9	6.6

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2003	5	22	46.4	8.0	38.9	3.8	42.9	6.1
2003	5	23	47.8	8.8	43.1	6.2	45.3	7.4
2003	5	24	51.4	10.8	46.5	8.1	49.2	9.6
2003	5	25	50.5	10.3	47.7	8.7	49.1	9.5
2003	5	26	50.7	10.4	47.6	8.7	49.2	9.6
2003	5	27	49.1	9.5	43.7	6.5	47.1	8.4
2003	5	28	50.6	10.3	46.3	7.9	47.9	8.8
2003	5	29	51.8	11.0	45.6	7.6	47.9	8.9
2003	5	30	51.0	10.6	46.3	7.9	49.0	9.5
2003	5	31	53.9	12.2	47.9	8.8	51.1	10.6
2003	6	1	53.0	11.7	35.8	2.1	43.4	6.4
2003	6	2	43.7	6.5	34.4	1.3	38.2	3.4
2003	6	3	48.0	8.9	40.3	4.6	44.1	6.7
2003	6	4	50.5	10.3	44.8	7.1	47.7	8.7
2003	6	5	50.8	10.4	44.8	7.1	48.1	8.9
2003	6	6	51.0	10.6	45.3	7.4	47.3	8.5
2003	6	7	53.5	11.9	46.9	8.3	51.0	10.6
2003	6	8	53.1	11.7	51.7	10.9	52.6	11.4
2003	6	9	54.0	12.2	47.7	8.7	52.1	11.2
2003	6	10	52.3	11.3	47.1	8.4	49.9	10.0
2003	6	11	63.3	17.4	52.0	11.1	59.2	15.1
2003	6	12	65.0	18.3	60.8	16.0	62.6	17.0
2003	6	13	63.3	17.4	60.0	15.6	61.7	16.5
2003	6	14	63.8	17.7	57.1	13.9	62.1	16.7
2003	6	15	58.4	14.7	46.6	8.1	53.2	11.8
2003	6	16	48.7	9.3	41.5	5.3	45.5	7.5
2003	6	17	51.1	10.6	43.7	6.5	46.2	7.9
2003	6	18	56.3	13.5	50.5	10.3	53.4	11.9
2003	6	19	58.5	14.7	52.2	11.2	55.4	13.0
2003	6	20	54.0	12.2	50.6	10.3	52.3	11.3
2003	6	21	52.9	11.6	48.2	9.0	50.8	10.4
2003	6	22	58.0	14.4	49.0	9.4	53.5	11.9
2003	6	23	58.1	14.5	49.3	9.6	53.2	11.8
2003	6	24	63.1	17.3	50.3	10.2	56.6	13.7
2003	6	25	64.4	18.0	51.9	11.1	58.2	14.6
2003	6	26	65.8	18.8	58.7	14.8	62.8	17.1
2003	6	27	63.4	17.4	49.3	9.6	57.6	14.2
2003	6	28	53.7	12.1	49.2	9.6	51.0	10.6
2003	6	29	59.7	15.4	52.5	11.4	56.2	13.4
2003	6	30	60.8	16.0	53.2	11.8	57.0	13.9
2003	7	1	58.8	14.9	51.9	11.1	55.0	12.8
2003	7	2	59.2	15.1	53.7	12.1	55.8	13.2
2003	7	3	61.2	16.2	54.1	12.3	57.6	14.2
2003	7	4	68.7	20.4	58.3	14.6	63.0	17.2
2003	7	5	65.1	18.4	61.4	16.3	63.6	17.6

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2003	7	6	64.6	18.1	58.8	14.9	61.8	16.5
2003	7	7	66.3	19.1	60.8	16.0	63.7	17.6
2003	7	8	66.8	19.3	60.6	15.9	64.4	18.0
2003	7	9	66.4	19.1	54.8	12.7	59.0	15.0
2003	7	10	57.6	14.2	52.8	11.6	55.3	13.0
2003	7	11	63.9	17.7	52.5	11.4	58.0	14.5
2003	7	12	56.2	13.4	51.1	10.6	53.0	11.6
2003	7	13	55.3	12.9	50.3	10.2	52.3	11.3
2003	7	14	55.9	13.3	51.0	10.6	53.2	11.8
2003	7	15	59.0	15.0	52.7	11.5	56.4	13.5
2003	7	16	64.9	18.3	52.6	11.4	59.5	15.3
2003	7	17	57.7	14.3	49.8	9.9	53.4	11.9
2003	7	18	62.0	16.7	55.4	13.0	58.9	15.0
2003	7	19	59.6	15.3	47.6	8.7	52.0	11.1
2003	7	20	55.8	13.2	47.8	8.8	51.7	10.9
2003	7	21	63.7	17.6	55.7	13.2	61.1	16.2
2003	7	22	62.6	17.0	57.7	14.3	60.3	15.7
2003	7	23	63.3	17.4	60.5	15.8	62.0	16.7
2003	7	24	61.6	16.4	53.9	12.2	58.3	14.6
2003	7	25	58.2	14.6	51.0	10.6	54.7	12.6
2003	7	26	62.7	17.1	52.8	11.6	57.4	14.1
2003	7	27	65.1	18.4	59.1	15.1	62.4	16.9
2003	7	28	65.5	18.6	50.0	10.0	56.9	13.8
2003	7	29	57.4	14.1	49.4	9.7	52.4	11.3
2003	7	30	57.3	14.1	52.0	11.1	54.0	12.2
2003	7	31	62.1	16.7	51.2	10.7	55.2	12.9
2003	8	1	68.4	20.2	58.2	14.6	63.8	17.7
2003	8	2	67.5	19.7	64.0	17.8	65.4	18.5
2003	8	3	68.5	20.3	63.6	17.6	65.9	18.9
2003	8	4	67.5	19.7	64.1	17.8	66.2	19.0
2003	8	5	67.3	19.6	61.9	16.6	63.9	17.7
2003	8	6	63.8	17.7	59.0	15.0	61.7	16.5
2003	8	7	64.4	18.0	58.8	14.9	62.1	16.7
2003	8	8	65.5	18.6	61.0	16.1	63.0	17.2
2003	8	9	67.7	19.8	63.7	17.6	65.6	18.7
2003	8	10	66.7	19.3	63.9	17.7	65.4	18.6
2003	8	11	67.4	19.7	63.5	17.5	64.8	18.2
2003	8	12	67.9	19.9	63.7	17.6	65.2	18.4
2003	8	13	68.1	20.1	63.0	17.2	65.4	18.6
2003	8	14	66.5	19.2	60.9	16.1	63.6	17.6
2003	8	15	66.0	18.9	59.9	15.5	63.2	17.3
2003	8	16	67.5	19.7	58.0	14.4	63.2	17.3
2003	8	17	61.9	16.6	56.5	13.6	59.7	15.4
2003	8	18	58.4	14.7	52.7	11.5	55.5	13.1
2003	8	19	61.3	16.3	53.0	11.7	56.8	13.8

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2003	8	20	63.9	17.7	54.7	12.6	58.8	14.9
2003	8	21	67.0	19.4	58.7	14.8	63.3	17.4
2003	8	22	69.3	20.7	62.7	17.1	66.0	18.9
2003	8	23	62.1	16.7	39.2	4.0	50.5	10.3
2003	8	24	50.4	10.2	40.8	4.9	45.6	7.6
2003	8	25	64.9	18.3	50.3	10.2	56.3	13.5
2003	8	26	65.7	18.7	58.3	14.6	62.0	16.7
2003	8	27	64.8	18.2	61.1	16.2	62.9	17.2
2003	8	28	57.0	13.9	47.0	8.3	52.8	11.5
2003	8	29	68.4	20.2	51.8	11.0	61.2	16.2
2003	8	30	65.0	18.3	50.7	10.4	60.2	15.7
2003	8	31	55.1	12.8	46.3	7.9	49.7	9.9
2003	9	1	60.8	16.0	55.2	12.9	58.3	14.6
2003	9	2	63.0	17.2	53.5	11.9	57.0	13.9
2003	9	3	61.3	16.3	54.1	12.3	57.4	14.1
2003	9	4	63.5	17.5	55.8	13.2	61.3	16.3
2003	9	5	56.5	13.6	48.3	9.1	52.2	11.2
2003	9	6	56.5	13.6	46.0	7.8	50.4	10.2
2003	9	7	56.3	13.5	47.7	8.7	51.8	11.0
2003	9	8	58.1	14.5	51.5	10.8	55.0	12.8
2003	9	9	55.1	12.8	46.6	8.1	50.9	10.5
2003	9	10	55.2	12.9	46.5	8.1	49.8	9.9
2003	9	11	57.3	14.1	48.8	9.3	53.6	12.0
2003	9	12	55.7	13.2	45.6	7.6	49.2	9.6
2003	9	13	65.2	18.4	49.2	9.6	59.7	15.4
2003	9	14	65.8	18.8	62.8	17.1	64.1	17.8
2003	9	15	65.1	18.4	61.0	16.1	63.5	17.5
2003	9	16	60.9	16.1	42.0	5.6	51.6	10.9
2003	9	17	53.5	11.9	47.4	8.6	49.9	9.9
2003	9	18	55.4	13.0	48.3	9.1	51.9	11.1
2003	9	19	64.4	18.0	56.3	13.5	60.4	15.8
2003	9	20	60.6	15.9	48.6	9.2	55.8	13.2
2003	9	21	56.7	13.7	46.1	7.8	50.8	10.4
2003	9	22	61.4	16.3	51.2	10.7	55.8	13.2
2003	9	23	62.9	17.2	42.4	5.8	53.6	12.0
2003	9	24	50.1	10.1	43.1	6.2	45.9	7.7
2003	9	25	59.5	15.3	46.4	8.0	53.2	11.8
2003	9	26	59.0	15.0	50.0	10.0	53.5	11.9
2003	9	27	62.1	16.7	56.1	13.4	59.4	15.2
2003	9	28	57.8	14.3	48.6	9.2	52.2	11.2
2003	9	29	48.1	8.9	39.4	4.1	43.4	6.3
2003	9	30	41.8	5.4	34.9	1.6	39.2	4.0
2003	10	1	44.0	6.7	37.1	2.8	40.6	4.8
2003	10	2	38.5	3.6	25.3	-3.7	32.9	0.5
2003	10	3	34.0	1.1	27.6	-2.4	31.3	-0.4

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2003	10	4	43.9	6.6	32.1	0.1	39.9	4.4
2003	10	5	39.6	4.2	30.6	-0.8	35.3	1.8
2003	10	6	36.5	2.5	29.4	-1.4	33.1	0.6
2003	10	7	43.6	6.4	31.7	-0.2	36.9	2.7
2003	10	8	50.0	10.0	38.8	3.8	44.3	6.9
2003	10	9	57.1	13.9	42.2	5.7	49.8	9.9
2003	10	10	54.1	12.3	47.3	8.5	51.2	10.7
2003	10	11	51.5	10.8	40.7	4.8	46.0	7.8
2003	10	12	53.0	11.7	41.2	5.1	46.7	8.1
2003	10	13	46.4	8.0	42.1	5.6	43.7	6.5
2003	10	14	51.5	10.8	40.9	4.9	43.5	6.4
2003	10	15	51.3	10.7	27.3	-2.6	38.4	3.6
2003	10	16	39.4	4.1	33.3	0.7	35.7	2.0
2003	10	21	47.7	8.7	40.6	4.8	43.1	6.2
2003	10	22	42.9	6.1	21.1	-6.1	33.0	0.6
2003	10	23	25.2	-3.8	17.9	-7.8	21.3	-6.0
2003	10	24	30.3	-0.9	20.2	-6.6	26.2	-3.2
2003	10	25	39.3	4.1	27.8	-2.3	32.9	0.5
2003	10	26	55.5	13.1	40.0	4.4	51.0	10.5
2003	10	27	56.2	13.4	38.4	3.6	50.0	10.0
2003	10	28	37.3	2.9	28.6	-1.9	33.7	0.9
2003	10	29	44.2	6.8	29.9	-1.2	41.4	5.2
2003	10	30	37.7	3.2	29.3	-1.5	32.9	0.5
2003	10	31	45.4	7.4	35.0	1.7	40.6	4.8
2003	11	1	55.0	12.8	42.5	5.8	48.4	9.1
2003	11	2	54.8	12.7	45.8	7.7	50.1	10.1
2003	11	3	68.1	20.1	48.5	9.2	55.8	13.2
2003	11	4	65.6	18.7	45.6	7.6	53.5	12.0
2003	11	5	57.5	14.2	51.5	10.8	54.7	12.6
2003	11	6	56.5	13.6	45.2	7.3	48.4	9.1
2003	11	7	44.9	7.2	36.3	2.4	42.0	5.5
2003	11	8	36.1	2.3	10.6	-11.9	22.9	-5.1
2003	11	9	17.9	-7.8	11.2	-11.6	15.2	-9.3
2003	11	10	22.7	-5.2	14.3	-9.8	18.3	-7.6
2003	11	11	39.0	3.9	22.6	-5.2	31.2	-0.4
2003	11	12	48.8	9.3	39.0	3.9	43.2	6.2
2003	11	13	49.5	9.7	17.8	-7.9	27.8	-2.4
2003	11	14	21.8	-5.7	13.4	-10.3	18.0	-7.8
2003	11	15	27.7	-2.4	22.6	-5.2	25.6	-3.6
2003	11	16	32.3	0.2	25.9	-3.4	29.4	-1.4
2003	11	17	40.0	4.4	33.0	0.6	37.7	3.2
2003	11	18	44.3	6.8	36.7	2.6	39.5	4.2
2003	11	19	55.7	13.2	43.5	6.4	50.8	10.5
2003	11	20	40.3	4.6	28.0	-2.2	31.5	-0.3
2003	11	21	39.1	3.9	26.8	-2.9	33.3	0.7

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2003	11	22	40.3	4.6	32.7	0.4	36.8	2.6
2003	11	23	41.9	5.5	32.6	0.3	37.3	2.9
2003	11	24	43.9	6.6	29.0	-1.7	37.4	3.0
2003	11	25	28.9	-1.7	18.9	-7.3	22.2	-5.5
2003	11	26	29.0	-1.7	22.9	-5.1	25.5	-3.6
2003	11	27	34.8	1.6	24.3	-4.3	28.8	-1.8
2003	11	28	52.4	11.3	33.9	1.1	43.1	6.2
2003	11	29	33.0	0.6	19.6	-6.9	24.5	-4.2
2003	11	30	26.6	-3.0	19.0	-7.2	22.5	-5.3
2003	12	1	29.9	-1.2	14.7	-9.6	22.9	-5.1
2003	12	2	22.3	-5.4	1.7	-16.8	12.3	-10.9
2003	12	3	11.9	-11.2	4.1	-15.5	7.5	-13.6
2003	12	4	17.6	-8.0	10.4	-12.0	14.2	-9.9
2003	12	5	24.5	-4.2	16.2	-8.8	20.3	-6.5
2003	12	6	20.4	-6.4	14.9	-9.5	16.8	-8.5
2003	12	7	15.0	-9.4	9.7	-12.4	11.9	-11.2
2003	12	8	16.6	-8.6	8.3	-13.2	12.1	-11.1
2003	12	9	19.4	-7.0	16.5	-8.6	18.1	-7.7
2003	12	10	44.3	6.8	19.8	-6.8	28.9	-1.8
2003	12	11	48.9	9.4	22.6	-5.2	39.5	4.1
2003	12	12	22.3	-5.4	14.1	-9.9	17.6	-8.0
2003	12	13	16.7	-8.5	7.0	-13.9	10.9	-11.7
2003	12	14	24.3	-4.3	8.1	-13.3	18.1	-7.7
2003	12	15	24.3	-4.3	16.1	-8.8	20.6	-6.3
2003	12	16	27.8	-2.3	17.6	-8.0	23.0	-5.0
2003	12	17	36.9	2.7	20.3	-6.5	29.4	-1.5
2003	12	18	21.1	-6.1	17.8	-7.9	18.8	-7.3
2003	12	19	20.8	-6.2	17.7	-7.9	19.6	-6.9
2003	12	20	21.3	-5.9	8.2	-13.2	16.9	-8.4
2003	12	21	14.7	-9.6	8.8	-12.9	12.6	-10.8
2003	12	22	25.7	-3.5	13.2	-10.4	19.0	-7.3
2003	12	23	34.6	1.4	25.8	-3.4	28.9	-1.7
2003	12	24	48.9	9.4	29.8	-1.2	40.5	4.7
2003	12	25	27.7	-2.4	18.1	-7.7	22.4	-5.3
2003	12	26	25.1	-3.8	15.9	-8.9	20.4	-6.4
2003	12	27	26.8	-2.9	17.6	-8.0	22.8	-5.1
2003	12	28	29.0	-1.7	18.2	-7.7	23.8	-4.6
2003	12	29	29.2	-1.6	22.1	-5.5	25.5	-3.6
2003	12	30	35.2	1.8	20.1	-6.6	26.8	-2.9
2003	12	31	24.3	-4.3	20.4	-6.4	22.1	-5.5
2004	1	1	23.3	-4.8	17.3	-8.2	20.3	-6.5
2004	1	2	33.2	0.7	22.4	-5.3	28.9	-1.7
2004	1	3	45.3	7.4	33.5	0.8	41.6	5.3
2004	1	4	44.3	6.8	29.7	-1.3	36.6	2.5
2004	1	5	34.6	1.4	25.7	-3.5	31.4	-0.3

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2004	1	6	22.2	-5.4	-2.1	-18.9	14.1	-10.0
2004	1	7	6.4	-14.2	-4.2	-20.1	0.9	-17.3
2004	1	8	12.7	-10.7	4.4	-15.3	9.0	-12.8
2004	1	9	14.6	-9.7	-16.8	-27.1	-4.2	-20.1
2004	1	10	-6.7	-21.5	-13.6	-25.3	-11.0	-23.9
2004	1	11	17.1	-8.3	-6.4	-21.3	1.4	-17.0
2004	1	12	26.7	-2.9	13.0	-10.6	19.8	-6.8
2004	1	13	29.4	-1.4	-3.2	-19.6	18.6	-7.5
2004	1	14	6.6	-14.1	-8.5	-22.5	-1.8	-18.8
2004	1	15	5.0	-15.0	-18.2	-27.9	-3.4	-19.7
2004	1	16	2.8	-16.2	-17.9	-27.7	-7.0	-21.7
2004	1	17	15.2	-9.3	1.3	-17.1	6.3	-14.3
2004	1	18	25.5	-3.6	8.2	-13.2	19.1	-7.2
2004	1	19	8.8	-12.9	4.8	-15.1	6.8	-14.0
2004	1	20	9.6	-12.4	2.4	-16.4	4.3	-15.4
2004	1	21	6.7	-14.1	2.5	-16.4	4.3	-15.4
2004	1	22	25.6	-3.6	-2.3	-19.1	9.1	-12.7
2004	1	23	1.2	-17.1	-8.7	-22.6	-5.8	-21.0
2004	1	24	4.3	-15.4	-11.1	-23.9	-1.0	-18.3
2004	1	25	-1.5	-18.6	-11.6	-24.2	-6.4	-21.4
2004	1	26	9.5	-12.5	-3.2	-19.6	4.8	-15.1
2004	1	27	20.0	-6.7	9.4	-12.6	15.0	-9.5
2004	1	28	17.9	-7.8	6.8	-14.0	12.8	-10.7
2004	1	29	8.1	-13.3	-4.0	-20.0	2.4	-16.5
2004	1	30	0.3	-17.6	-4.2	-20.1	-1.6	-18.7
2004	1	31	5.3	-14.8	-1.7	-18.7	2.0	-16.7
2004	2	1	12.8	-10.7	2.6	-16.3	8.1	-13.3
2004	2	2	19.5	-6.9	9.8	-12.3	15.7	-9.0
2004	2	3	32.6	0.3	17.0	-8.3	25.8	-3.4
2004	2	4	30.1	-1.1	14.3	-9.8	21.6	-5.8
2004	2	5	17.6	-8.0	8.4	-13.1	12.9	-10.6
2004	2	6	32.8	0.4	15.7	-9.1	27.1	-2.7
2004	2	7	30.7	-0.7	10.5	-11.9	23.6	-4.6
2004	2	8	9.4	-12.6	-2.0	-18.9	4.9	-15.1
2004	2	9	20.5	-6.4	4.5	-15.3	12.3	-10.9
2004	2	10	23.7	-4.6	16.6	-8.6	20.2	-6.6
2004	2	11	24.5	-4.2	9.3	-12.6	14.4	-9.8
2004	2	12	21.0	-6.1	10.6	-11.9	15.1	-9.4
2004	2	13	22.6	-5.2	16.8	-8.4	18.6	-7.5
2004	2	14	18.1	-7.7	14.1	-9.9	16.1	-8.8
2004	2	15	18.0	-7.8	-7.0	-21.7	1.6	-16.9
2004	2	16	5.5	-14.7	-9.4	-23.0	-1.0	-18.3
2004	2	17	14.9	-9.5	3.0	-16.1	8.2	-13.2
2004	2	18	15.0	-9.4	2.5	-16.4	11.3	-11.5
2004	2	19	24.5	-4.2	14.3	-9.8	20.3	-6.5

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2004	2	20	29.1	-1.6	21.3	-5.9	24.4	-4.3
2004	2	21	32.1	0.1	23.7	-4.6	28.9	-1.7
2004	2	22	25.1	-3.8	14.6	-9.7	17.5	-8.0
2004	2	23	20.7	-6.3	12.2	-11.0	16.7	-8.5
2004	2	24	27.1	-2.7	4.2	-15.4	21.5	-5.9
2004	2	25	10.2	-12.1	2.3	-16.5	7.8	-13.5
2004	2	26	18.4	-7.6	7.6	-13.6	12.4	-10.9
2004	2	27	13.3	-10.4	6.8	-14.0	9.5	-12.5
2004	2	28	21.5	-5.8	11.1	-11.6	15.9	-9.0
2004	2	29	23.2	-4.9	16.6	-8.6	20.4	-6.4
2004	3	1	28.7	-1.8	20.9	-6.2	25.2	-3.8
2004	3	2	44.0	6.7	26.8	-2.9	33.4	0.8
2004	3	3	34.2	1.2	28.4	-2.0	32.1	0.0
2004	3	4	40.8	4.9	31.9	-0.1	36.7	2.6
2004	3	5	43.9	6.6	37.1	2.8	40.0	4.4
2004	3	6	50.5	10.3	25.3	-3.7	41.4	5.2
2004	3	7	33.4	0.8	22.6	-5.2	26.0	-3.3
2004	3	8	31.5	-0.3	24.2	-4.3	27.8	-2.3
2004	3	9	26.6	-3.0	22.8	-5.1	24.7	-4.1
2004	3	10	28.8	-1.8	22.8	-5.1	24.2	-4.4
2004	3	11	24.9	-3.9	18.7	-7.4	22.0	-5.5
2004	3	12	29.9	-1.2	12.0	-11.1	18.7	-7.4
2004	3	13	15.7	-9.1	4.5	-15.3	10.2	-12.1
2004	3	14	27.1	-2.7	9.4	-12.6	15.8	-9.0
2004	3	15	30.8	-0.7	13.9	-10.1	22.2	-5.4
2004	3	16	24.7	-4.1	16.9	-8.4	21.1	-6.0
2004	3	17	25.8	-3.4	20.0	-6.7	22.8	-5.1
2004	3	18	24.7	-4.1	19.2	-7.1	21.3	-6.0
2004	3	19	27.1	-2.7	16.1	-8.8	22.5	-5.3
2004	3	20	35.1	1.7	15.3	-9.3	24.7	-4.0
2004	3	21	35.5	1.9	12.7	-10.7	24.0	-4.5
2004	3	22	12.1	-11.1	-2.7	-19.3	2.0	-16.7
2004	3	23	14.8	-9.6	5.6	-14.7	10.5	-11.9
2004	3	24	30.1	-1.1	15.2	-9.3	20.9	-6.2
2004	3	25	38.7	3.7	30.8	-0.7	35.4	1.9
2004	3	26	44.7	7.1	34.4	1.3	39.7	4.3
2004	3	27	51.8	11.0	39.9	4.4	45.8	7.7
2004	3	28	39.4	4.1	22.8	-5.1	33.6	0.9
2004	3	29	33.0	0.6	19.1	-7.2	27.7	-2.4
2004	3	30	33.0	0.6	17.1	-8.3	26.4	-3.1
2004	3	31	39.6	4.2	32.9	0.5	36.8	2.6
2004	4	1	40.1	4.5	37.7	3.2	38.7	3.7
2004	4	2	39.2	4.0	34.5	1.4	35.9	2.2
2004	4	3	37.1	2.8	32.9	0.5	34.9	1.6
2004	4	4	36.6	2.6	14.7	-9.6	28.0	-2.2

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2004	4	7	33.0	0.6	25.8	-3.4	29.5	-1.4
2004	4	8	35.7	2.1	25.5	-3.6	30.3	-1.0
2004	4	9	37.7	3.2	16.2	-8.8	29.6	-1.3
2004	4	10	27.1	-2.7	22.3	-5.4	25.0	-3.9
2004	4	11	30.5	-0.8	23.3	-4.8	26.5	-3.1
2004	4	12	36.8	2.7	21.3	-5.9	30.1	-1.1
2004	4	13	49.2	9.6	34.7	1.5	40.5	4.7
2004	4	14	44.8	7.1	28.4	-2.0	36.2	2.3
2004	4	15	27.9	-2.3	11.6	-11.3	19.9	-6.8
2004	4	16	27.0	-2.8	16.9	-8.4	22.0	-5.6
2004	4	17	44.6	7.0	27.9	-2.3	36.4	2.4
2004	4	18	53.0	11.7	43.1	6.2	47.8	8.8
2004	4	19	50.3	10.2	30.7	-0.7	42.7	5.9
2004	4	20	51.1	10.6	33.7	0.9	38.8	3.8
2004	4	21	48.2	9.0	35.9	2.2	41.7	5.4
2004	4	22	53.1	11.7	44.6	7.0	49.5	9.7
2004	4	23	48.9	9.4	44.6	7.0	46.3	7.9
2004	4	24	46.5	8.1	25.9	-3.4	35.0	1.7
2004	4	25	37.3	2.9	22.8	-5.1	30.8	-0.7
2004	4	26	49.6	9.8	37.8	3.2	45.2	7.3
2004	4	27	45.5	7.5	27.2	-2.7	35.1	1.7
2004	4	28	30.4	-0.9	16.7	-8.5	21.7	-5.7
2004	4	29	44.5	6.9	28.3	-2.1	36.4	2.5
2004	4	30	51.0	10.6	42.0	5.6	46.1	7.8
2004	5	1	56.7	13.7	48.5	9.2	52.6	11.4
2004	5	2	59.5	15.3	53.4	11.9	57.2	14.0
2004	5	3	53.5	11.9	29.8	-1.2	36.5	2.5
2004	5	7	55.8	13.2	38.5	3.6	49.2	9.6
2004	5	8	38.9	3.8	27.7	-2.4	33.4	0.8
2004	5	9	55.5	13.1	37.1	2.8	48.0	8.9
2004	5	10	58.0	14.4	51.4	10.8	54.9	12.7
2004	5	11	60.8	16.0	54.6	12.6	57.1	13.9
2004	5	12	62.1	16.7	57.4	14.1	60.0	15.5
2004	5	13	61.9	16.6	53.6	12.0	57.9	14.4
2004	5	14	62.3	16.8	58.7	14.8	60.4	15.8
2004	5	15	62.1	16.7	56.9	13.8	59.2	15.1
2004	5	16	56.6	13.7	51.0	10.6	53.0	11.7
2004	5	17	59.0	15.0	49.0	9.4	54.2	12.3
2004	5	18	62.5	16.9	57.7	14.3	59.6	15.4
2004	5	19	61.4	16.3	51.0	10.6	55.2	12.9
2004	5	20	57.2	14.0	48.5	9.2	52.2	11.2
2004	5	21	64.7	18.2	57.5	14.2	61.5	16.4
2004	5	22	65.2	18.4	59.1	15.1	62.0	16.6
2004	5	23	67.1	19.5	61.4	16.3	63.8	17.7
2004	5	24	63.8	17.7	54.9	12.7	60.0	15.5

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2004	5	25	57.5	14.2	49.2	9.6	52.8	11.5
2004	5	26	60.7	15.9	57.0	13.9	58.9	14.9
2004	5	27	59.2	15.1	50.3	10.2	55.5	13.0
2004	5	28	61.0	16.1	41.3	5.2	54.2	12.3
2004	5	29	41.5	5.3	27.2	-2.7	32.8	0.5
2004	5	30	47.4	8.6	34.1	1.2	39.5	4.2
2004	5	31	50.8	10.4	41.3	5.2	47.4	8.5
2004	6	1	53.4	11.9	48.5	9.2	51.5	10.8
2004	6	2	54.5	12.5	48.7	9.3	51.2	10.7
2004	6	3	53.3	11.8	40.5	4.7	47.0	8.3
2004	6	4	50.7	10.4	32.5	0.3	42.1	5.6
2004	6	5	49.2	9.6	45.0	7.2	47.6	8.7
2004	6	6	52.5	11.4	45.7	7.6	48.7	9.3
2004	6	7	59.0	15.0	48.2	9.0	53.9	12.2
2004	6	8	61.2	16.2	53.0	11.7	56.8	13.8
2004	6	9	66.6	19.2	57.4	14.1	63.0	17.2
2004	6	10	64.4	18.0	53.5	11.9	60.3	15.7
2004	6	11	53.1	11.7	45.0	7.2	49.6	9.8
2004	6	12	50.6	10.3	37.2	2.9	43.2	6.2
2004	6	13	50.4	10.2	44.0	6.7	46.8	8.2
2004	6	14	66.4	19.1	50.7	10.4	59.1	15.1
2004	6	15	64.7	18.2	61.5	16.4	62.7	17.1
2004	6	16	68.4	20.2	59.9	15.5	62.8	17.1
2004	6	17	68.7	20.4	63.7	17.6	66.5	19.2
2004	6	18	66.6	19.2	59.9	15.5	64.5	18.1
2004	6	19	64.0	17.8	35.9	2.2	52.4	11.4
2004	6	20	47.6	8.7	39.2	4.0	41.6	5.3
2004	6	21	52.1	11.2	42.7	5.9	46.8	8.2
2004	6	22	65.4	18.6	54.7	12.6	60.6	15.9
2004	6	23	61.6	16.4	49.2	9.6	54.9	12.7
2004	6	24	58.8	14.9	51.0	10.6	54.1	12.3
2004	6	25	58.3	14.6	49.7	9.8	55.4	13.0
2004	6	26	60.1	15.6	40.5	4.7	50.9	10.5
2004	6	27	50.2	10.1	41.5	5.3	45.3	7.4
2004	6	28	55.9	13.3	46.8	8.2	51.3	10.7
2004	6	29	53.4	11.9	47.9	8.8	50.2	10.1
2004	6	30	57.2	14.0	49.1	9.5	53.1	11.7
2004	7	1	60.4	15.8	52.7	11.5	57.1	13.9
2004	7	2	62.8	17.1	55.0	12.8	59.2	15.1
2004	7	3	59.8	15.4	46.7	8.2	53.4	11.9
2004	7	4	61.1	16.2	56.4	13.6	58.6	14.8
2004	7	5	67.3	19.6	59.7	15.4	63.0	17.2
2004	7	6	58.6	14.8	49.6	9.8	54.1	12.3
2004	7	7	67.3	19.6	55.3	12.9	61.1	16.2
2004	7	8	63.7	17.6	54.5	12.5	59.9	15.5

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2004	7	9	58.0	14.4	49.7	9.8	53.0	11.7
2004	7	10	59.6	15.3	51.7	10.9	55.1	12.9
2004	7	11	64.4	18.0	55.9	13.3	59.1	15.1
2004	7	12	62.1	16.7	58.8	14.9	60.6	15.9
2004	7	13	62.4	16.9	58.4	14.7	60.0	15.6
2004	7	14	63.0	17.2	58.2	14.6	60.8	16.0
2004	7	15	60.4	15.8	53.7	12.1	56.8	13.8
2004	7	16	62.0	16.7	52.8	11.6	57.2	14.0
2004	7	17	62.1	16.7	53.0	11.7	57.9	14.4
2004	7	18	60.6	15.9	56.1	13.4	58.5	14.7
2004	7	19	60.4	15.8	56.9	13.8	58.7	14.8
2004	7	20	61.5	16.4	54.0	12.2	58.8	14.9
2004	7	21	64.6	18.1	55.5	13.1	59.8	15.5
2004	7	22	65.1	18.4	59.9	15.5	63.1	17.3
2004	7	23	66.9	19.4	60.5	15.8	64.6	18.1
2004	7	24	58.3	14.6	45.3	7.4	50.6	10.3
2004	7	25	59.7	15.4	50.2	10.1	55.0	12.8
2004	7	26	59.7	15.4	55.6	13.1	57.2	14.0
2004	7	27	62.0	16.7	52.4	11.3	58.2	14.6
2004	7	28	62.1	16.7	58.4	14.7	60.1	15.6
2004	7	29	63.1	17.3	57.1	13.9	59.2	15.1
2004	7	30	67.3	19.6	57.8	14.3	63.3	17.4
2004	7	31	67.2	19.6	63.8	17.7	65.6	18.7
2004	8	1	67.3	19.6	64.6	18.1	65.4	18.5
2004	8	2	67.4	19.7	59.4	15.2	62.7	17.1
2004	8	3	66.3	19.1	61.0	16.1	63.3	17.4
2004	8	4	64.2	17.9	60.0	15.6	62.0	16.7
2004	8	5	60.6	15.9	43.2	6.2	53.1	11.7
2004	8	6	49.3	9.6	41.1	5.1	44.5	6.9
2004	8	7	49.1	9.5	43.0	6.1	46.8	8.2
2004	8	8	58.3	14.6	48.7	9.3	51.6	10.9
2004	8	9	57.6	14.2	49.2	9.6	53.0	11.6
2004	8	10	61.2	16.2	54.8	12.7	58.2	14.6
2004	8	11	62.9	17.2	59.5	15.3	60.9	16.1
2004	8	12	62.8	17.1	59.6	15.3	61.3	16.3
2004	8	13	61.4	16.3	57.7	14.3	59.7	15.4
2004	8	14	59.6	15.3	53.5	11.9	56.2	13.4
2004	8	15	59.9	15.5	57.0	13.9	58.0	14.4
2004	8	16	59.4	15.2	55.1	12.8	56.8	13.8
2004	8	17	57.1	13.9	51.4	10.8	54.0	12.2
2004	8	18	60.3	15.7	55.1	12.8	56.9	13.8
2004	8	19	64.0	17.8	58.4	14.7	61.7	16.5
2004	8	20	65.8	18.8	59.7	15.4	62.6	17.0
2004	8	21	64.8	18.2	53.5	11.9	59.2	15.1
2004	8	22	52.5	11.4	45.9	7.7	49.2	9.6

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2004	8	23	61.2	16.2	48.1	8.9	54.3	12.4
2004	8	24	64.8	18.2	58.3	14.6	60.6	15.9
2004	8	25	61.4	16.3	52.8	11.6	57.9	14.4
2004	8	26	60.7	15.9	47.3	8.5	56.4	13.5
2004	8	27	66.3	19.1	59.4	15.2	63.5	17.5
2004	8	28	68.4	20.2	61.8	16.6	64.9	18.3
2004	8	29	68.2	20.1	62.0	16.7	64.4	18.0
2004	8	30	67.3	19.6	62.2	16.8	64.4	18.0
2004	8	31	63.1	17.3	53.1	11.7	57.4	14.1
2004	9	1	56.7	13.7	51.9	11.1	53.9	12.2
2004	9	2	57.7	14.3	49.1	9.5	53.0	11.7
2004	9	3	59.7	15.4	51.7	10.9	55.6	13.1
2004	9	4	63.3	17.4	52.6	11.4	58.2	14.6
2004	9	5	60.5	15.8	51.6	10.9	57.2	14.0
2004	9	6	55.4	13.0	47.9	8.8	51.5	10.8
2004	9	7	63.6	17.6	55.7	13.2	59.0	15.0
2004	9	8	64.1	17.8	61.3	16.3	62.4	16.9
2004	9	9	66.3	19.1	53.7	12.1	62.9	17.2
2004	9	10	57.1	13.9	52.4	11.3	54.6	12.6
2004	9	11	54.5	12.5	50.2	10.1	52.6	11.4
2004	9	12	59.3	15.2	51.3	10.7	54.6	12.6
2004	9	13	59.7	15.4	52.7	11.5	56.1	13.4
2004	9	14	58.1	14.5	51.8	11.0	55.4	13.0
2004	9	15	57.8	14.3	50.7	10.4	53.8	12.1
2004	9	16	60.4	15.8	57.5	14.2	59.2	15.1
2004	9	17	63.6	17.6	55.5	13.1	59.2	15.1
2004	9	18	55.5	13.1	38.1	3.4	49.0	9.4
2004	9	19	40.3	4.6	34.5	1.4	37.1	2.8
2004	9	20	50.3	10.2	38.7	3.7	43.4	6.3
2004	9	21	56.9	13.8	43.8	6.6	48.6	9.2
2004	9	22	55.1	12.8	44.0	6.7	49.7	9.8
2004	9	23	62.1	16.7	48.7	9.3	55.0	12.8
2004	9	24	59.3	15.2	53.8	12.1	57.1	13.9
2004	9	25	59.7	15.4	51.9	11.1	56.2	13.5
2004	9	26	59.5	15.3	48.4	9.1	52.0	11.1
2004	9	27	58.2	14.6	46.5	8.1	51.8	11.0
2004	9	28	58.6	14.8	55.0	12.8	57.9	14.4
2004	9	29	55.7	13.2	50.2	10.1	52.7	11.5
2004	9	30	54.1	12.3	42.6	5.9	49.2	9.6
2004	10	1	48.9	9.4	38.3	3.5	43.7	6.5
2004	10	2	56.7	13.7	44.2	6.8	51.9	11.1
2004	10	3	44.1	6.7	37.2	2.9	40.4	4.7
2004	10	4	48.6	9.2	36.6	2.6	40.5	4.7
2004	10	5	36.6	2.6	26.7	-2.9	32.4	0.2
2004	10	6	39.8	4.3	30.8	-0.7	34.1	1.2

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2004	10	7	48.6	9.2	34.6	1.4	41.0	5.0
2004	10	8	50.0	10.0	42.0	5.6	46.3	8.0
2004	10	9	51.2	10.7	43.2	6.2	47.6	8.7
2004	10	10	50.6	10.3	35.4	1.9	40.8	4.9
2004	10	11	37.5	3.1	30.9	-0.6	33.1	0.6
2004	10	12	37.0	2.8	30.3	-0.9	33.2	0.7
2004	10	13	43.2	6.2	32.9	0.5	37.6	3.1
2004	10	14	46.6	8.1	41.8	5.4	44.4	6.9
2004	10	15	50.5	10.3	42.4	5.8	46.7	8.2
2004	10	16	41.5	5.3	33.6	0.9	38.2	3.4
2004	10	17	32.8	0.4	27.7	-2.4	30.0	-1.1
2004	10	18	40.3	4.6	30.3	-0.9	33.7	1.0
2004	10	19	40.2	4.6	38.7	3.7	39.5	4.2
2004	10	20	41.7	5.4	38.2	3.4	39.5	4.2
2004	10	21	41.0	5.0	38.1	3.4	40.1	4.5
2004	10	22	38.9	3.8	33.1	0.6	36.1	2.3
2004	10	23	33.8	1.0	29.7	-1.3	31.4	-0.3
2004	10	24	36.7	2.6	29.7	-1.3	32.6	0.3
2004	10	25	42.6	5.9	36.9	2.7	39.9	4.4
2004	10	26	42.6	5.9	38.3	3.5	40.3	4.6
2004	10	27	40.5	4.7	35.2	1.8	37.5	3.1
2004	10	28	37.9	3.3	26.7	-2.9	32.8	0.5
2004	10	29	45.1	7.3	31.5	-0.3	39.0	3.9
2004	10	30	54.9	12.7	45.8	7.7	50.1	10.1
2004	10	31	54.6	12.6	35.5	1.9	42.7	5.9
2004	11	1	35.6	2.0	32.9	0.5	34.3	1.3
2004	11	2	48.6	9.2	31.9	-0.1	37.8	3.2
2004	11	4	39.1	3.9	26.6	-3.0	32.1	0.1
2004	11	5	39.8	4.3	19.4	-7.0	26.6	-3.0
2004	11	6	31.7	-0.2	23.5	-4.7	27.6	-2.4
2004	11	7	40.7	4.8	29.7	-1.3	35.6	2.0
2004	11	8	34.7	1.5	11.4	-11.4	19.2	-7.1
2004	11	9	24.4	-4.2	11.9	-11.2	16.5	-8.6
2004	11	10	25.5	-3.6	17.6	-8.0	20.1	-6.6
2004	11	11	34.3	1.3	26.1	-3.3	29.3	-1.5
2004	11	12	32.1	0.1	29.0	-1.7	30.6	-0.8
2004	11	13	28.9	-1.7	10.2	-12.1	18.4	-7.5
2004	11	14	22.1	-5.5	10.6	-11.9	17.6	-8.0
2004	11	15	26.3	-3.2	19.4	-7.0	23.1	-5.0
2004	11	16	28.7	-1.8	22.7	-5.2	25.8	-3.4
2004	11	17	34.6	1.4	24.8	-4.0	29.4	-1.5
2004	11	18	44.6	7.0	34.6	1.4	40.8	4.9
2004	11	19	44.4	6.9	36.4	2.4	41.1	5.0
2004	11	20	41.2	5.1	35.8	2.1	38.8	3.8
2004	11	21	45.5	7.5	38.0	3.3	42.5	5.8

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2004	11	22	38.2	3.4	32.5	0.3	34.8	1.6
2004	11	23	40.3	4.6	29.4	-1.4	34.6	1.5
2004	11	24	54.2	12.3	40.8	4.9	45.7	7.6
2004	11	25	54.6	12.6	15.3	-9.3	38.3	3.5
2004	11	26	24.2	-4.3	11.5	-11.4	18.4	-7.6
2004	11	27	38.0	3.3	18.2	-7.7	24.4	-4.2
2004	11	28	47.8	8.8	24.6	-4.1	37.5	3.0
2004	11	29	26.5	-3.1	19.8	-6.8	22.9	-5.0
2004	11	30	30.4	-0.9	26.4	-3.1	27.6	-2.5
2004	12	1	41.8	5.4	22.2	-5.4	31.8	-0.1
2004	12	2	24.9	-3.9	20.8	-6.2	23.0	-5.0
2004	12	3	25.8	-3.4	12.5	-10.8	20.0	-6.7
2004	12	4	22.6	-5.2	13.6	-10.2	18.2	-7.7
2004	12	5	29.9	-1.2	21.4	-5.9	25.0	-3.9
2004	12	6	33.2	0.7	18.1	-7.7	25.8	-3.5
2004	12	7	43.2	6.2	32.6	0.3	35.8	2.1
2004	12	8	42.3	5.7	26.0	-3.3	34.4	1.3
2004	12	9	36.1	2.3	26.9	-2.8	29.5	-1.4
2004	12	10	37.4	3.0	35.9	2.2	36.7	2.6
2004	12	11	39.6	4.2	28.7	-1.8	34.9	1.6
2004	12	12	29.0	-1.7	22.6	-5.2	25.9	-3.4
2004	12	13	30.0	-1.1	18.2	-7.7	24.4	-4.2
2004	12	14	23.8	-4.6	7.0	-13.9	13.8	-10.1
2004	12	15	16.2	-8.8	3.2	-16.0	10.9	-11.7
2004	12	16	14.5	-9.7	7.6	-13.6	12.2	-11.0
2004	12	17	23.3	-4.8	11.7	-11.3	16.2	-8.8
2004	12	18	21.8	-5.7	13.2	-10.4	17.5	-8.1
2004	12	19	29.6	-1.3	-1.2	-18.4	19.7	-6.8
2004	12	20	-4.4	-20.2	-15.8	-26.6	-11.8	-24.3
2004	12	21	13.4	-10.3	-6.7	-21.5	3.4	-15.9
2004	12	22	26.7	-2.9	12.6	-10.8	19.6	-6.9
2004	12	23	49.8	9.9	17.0	-8.3	37.6	3.1
2004	12	24	16.9	-8.4	6.7	-14.1	10.8	-11.8
2004	12	25	11.2	-11.6	1.5	-16.9	5.1	-15.0
2004	12	26	14.0	-10.0	5.6	-14.7	8.9	-12.8
2004	12	27	10.0	-12.2	-6.8	-21.6	0.7	-17.4
2004	12	28	10.1	-12.2	-3.4	-19.7	4.9	-15.0
2004	12	29	23.3	-4.8	9.3	-12.6	16.0	-8.9
2004	12	30	28.5	-1.9	24.1	-4.4	27.1	-2.7
2004	12	31	37.2	2.9	27.5	-2.5	32.7	0.4
2005	1	1	39.2	4.0	22.2	-5.4	32.3	0.2
2005	1	2	34.9	1.6	22.7	-5.2	25.9	-3.4
2005	1	3	39.4	4.1	35.0	1.7	37.0	2.8
2005	1	4	39.3	4.1	31.9	-0.1	35.9	2.1
2005	1	5	31.4	-0.3	24.0	-4.4	28.2	-2.1

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2005	1	6	30.1	-1.1	24.8	-4.0	28.3	-2.1
2005	1	7	30.3	-0.9	17.5	-8.1	20.9	-6.2
2005	1	8	31.9	-0.1	23.3	-4.8	27.8	-2.3
2005	1	9	25.6	-3.6	20.8	-6.2	22.8	-5.1
2005	1	10	30.4	-0.9	24.2	-4.3	27.3	-2.6
2005	1	11	28.9	-1.7	24.1	-4.4	25.8	-3.4
2005	1	12	33.5	0.8	29.3	-1.5	31.7	-0.2
2005	1	13	52.4	11.3	33.2	0.7	42.7	6.0
2005	1	14	54.0	12.2	15.5	-9.2	31.9	-0.1
2005	1	15	15.1	-9.4	5.7	-14.6	9.3	-12.6
2005	1	16	17.9	-7.8	12.4	-10.9	14.7	-9.6
2005	1	17	14.4	-9.8	-4.6	-20.3	5.5	-14.7
2005	1	18	-1.4	-18.6	-15.1	-26.2	-9.7	-23.1
2005	1	19	12.8	-10.7	-7.8	-22.1	1.9	-16.8
2005	1	20	13.6	-10.2	0.2	-17.7	7.8	-13.4
2005	1	21	0.3	-17.6	-11.9	-24.4	-6.8	-21.6
2005	1	22	12.4	-10.9	-10.8	-23.8	-0.8	-18.2
2005	1	23	9.8	-12.3	-7.1	-21.7	-0.1	-17.8
2005	1	24	10.1	-12.2	-8.3	-22.4	-0.2	-17.9
2005	1	25	17.9	-7.8	7.0	-13.9	14.5	-9.7
2005	1	26	23.5	-4.7	2.5	-16.4	16.6	-8.5
2005	1	27	1.3	-17.1	-12.6	-24.8	-7.8	-22.1
2005	1	28	1.7	-16.8	-12.3	-24.6	-4.4	-20.2
2005	1	29	14.8	-9.6	-6.9	-21.6	0.6	-17.5
2005	1	30	18.3	-7.6	7.2	-13.8	14.2	-9.9
2005	1	31	14.4	-9.8	7.0	-13.9	12.1	-11.0
2005	2	1	13.6	-10.2	3.6	-15.8	9.9	-12.3
2005	2	2	16.1	-8.8	4.8	-15.1	11.4	-11.4
2005	2	3	17.6	-8.0	11.1	-11.6	13.4	-10.3
2005	2	4	25.6	-3.6	15.1	-9.4	21.0	-6.1
2005	2	5	22.6	-5.2	16.0	-8.9	20.4	-6.5
2005	2	6	24.6	-4.1	18.9	-7.3	22.0	-5.6
2005	2	7	24.2	-4.3	19.8	-6.8	22.2	-5.5
2005	2	8	30.7	-0.7	23.1	-4.9	27.0	-2.8
2005	2	9	37.8	3.2	30.2	-1.0	33.8	1.0
2005	2	10	36.9	2.7	14.7	-9.6	24.1	-4.4
2005	2	11	14.3	-9.8	3.0	-16.1	7.0	-13.9
2005	2	12	26.1	-3.3	11.6	-11.3	19.9	-6.7
2005	2	13	16.9	-8.4	6.3	-14.3	10.8	-11.8
2005	2	14	39.2	4.0	9.1	-12.7	22.7	-5.2
2005	2	15	40.1	4.5	30.2	-1.0	33.4	0.8
2005	2	16	38.7	3.7	17.9	-7.8	29.3	-1.5
2005	2	17	23.1	-4.9	11.7	-11.3	16.9	-8.4
2005	2	18	11.4	-11.4	-1.2	-18.4	4.6	-15.2
2005	2	19	11.9	-11.2	-1.0	-18.3	4.4	-15.3

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2005	2	20	24.3	-4.3	9.5	-12.5	14.3	-9.8
2005	2	21	29.3	-1.5	20.8	-6.2	25.4	-3.7
2005	2	22	28.2	-2.1	20.1	-6.6	24.8	-4.0
2005	2	23	28.5	-1.9	10.1	-12.2	16.7	-8.5
2005	2	24	18.2	-7.7	7.3	-13.7	12.1	-11.0
2005	2	25	16.5	-8.6	10.2	-12.1	14.1	-10.0
2005	2	26	21.7	-5.7	7.5	-13.6	12.8	-10.7
2005	2	27	12.5	-10.8	4.2	-15.4	7.4	-13.7
2005	2	28	23.4	-4.8	8.0	-13.3	15.4	-9.2
2005	3	1	26.4	-3.1	19.6	-6.9	21.6	-5.8
2005	3	2	22.6	-5.2	11.7	-11.3	16.0	-8.9
2005	3	3	10.9	-11.7	1.4	-17.0	4.1	-15.5
2005	3	4	12.1	-11.1	3.4	-15.9	7.6	-13.5
2005	3	5	14.2	-9.9	4.2	-15.4	9.8	-12.3
2005	3	6	26.5	-3.1	11.0	-11.7	18.3	-7.6
2005	3	7	32.5	0.3	23.8	-4.6	26.5	-3.1
2005	3	8	39.0	3.9	-5.4	-20.8	16.2	-8.8
2005	3	9	4.7	-15.2	-6.8	-21.6	0.4	-17.6
2005	3	10	9.8	-12.3	0.9	-17.3	5.0	-15.0
2005	3	11	28.5	-1.9	10.2	-12.1	20.8	-6.3
2005	3	12	28.2	-2.1	14.3	-9.8	20.7	-6.3
2005	3	13	21.7	-5.7	10.2	-12.1	16.3	-8.7
2005	3	14	16.6	-8.6	6.6	-14.1	10.0	-12.2
2005	3	15	13.9	-10.1	8.0	-13.3	10.3	-12.1
2005	3	16	16.0	-8.9	8.7	-12.9	12.4	-10.9
2005	3	17	20.9	-6.2	14.8	-9.6	16.7	-8.5
2005	3	18	23.6	-4.7	16.3	-8.7	19.3	-7.1
2005	3	19	22.9	-5.1	16.1	-8.8	19.4	-7.0
2005	3	20	36.8	2.7	24.2	-4.3	32.2	0.1
2005	3	21	34.4	1.3	23.9	-4.5	28.6	-1.9
2005	3	22	27.0	-2.8	22.0	-5.6	24.4	-4.2
2005	3	23	30.6	-0.8	21.6	-5.8	26.6	-3.0
2005	3	24	29.1	-1.6	26.3	-3.2	27.3	-2.6
2005	3	25	30.8	-0.7	23.1	-4.9	27.7	-2.4
2005	3	26	27.8	-2.3	20.9	-6.2	24.0	-4.4
2005	3	27	35.3	1.8	26.1	-3.3	30.4	-0.9
2005	3	28	40.2	4.6	30.3	-0.9	34.9	1.6
2005	3	29	40.6	4.8	32.3	0.2	35.2	1.8
2005	3	30	33.5	0.8	25.8	-3.4	29.9	-1.2
2005	3	31	34.9	1.6	28.6	-1.9	31.1	-0.5
2005	4	1	38.6	3.7	32.5	0.3	35.9	2.1
2005	4	2	49.1	9.5	37.3	2.9	42.3	5.7
2005	4	3	44.9	7.2	27.7	-2.4	32.6	0.3
2005	4	4	29.0	-1.7	10.6	-11.9	21.6	-5.8
2005	4	5	29.0	-1.7	19.9	-6.7	24.3	-4.3

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2005	4	6	40.9	4.9	29.3	-1.5	34.8	1.6
2005	4	7	51.0	10.6	38.9	3.8	43.4	6.3
2005	4	8	50.7	10.4	24.5	-4.2	32.9	0.5
2005	4	9	29.0	-1.7	11.3	-11.5	22.5	-5.3
2005	4	10	29.8	-1.2	18.0	-7.8	26.2	-3.2
2005	4	11	24.6	-4.1	9.7	-12.4	16.6	-8.6
2005	4	12	20.1	-6.6	8.5	-13.1	14.2	-9.9
2005	4	13	23.0	-5.0	16.9	-8.4	20.0	-6.7
2005	4	14	27.1	-2.7	21.8	-5.7	24.2	-4.3
2005	4	15	30.2	-1.0	5.8	-14.6	17.4	-8.1
2005	4	16	24.3	-4.3	10.5	-11.9	17.3	-8.2
2005	4	17	26.8	-2.9	18.9	-7.3	23.5	-4.8
2005	4	18	36.1	2.3	26.9	-2.8	32.3	0.2
2005	4	19	41.8	5.4	31.1	-0.5	35.6	2.0
2005	4	20	48.8	9.3	41.5	5.3	43.7	6.5
2005	4	21	49.9	9.9	19.9	-6.7	28.0	-2.2
2005	4	22	35.2	1.8	25.0	-3.9	29.9	-1.2
2005	4	23	49.1	9.5	36.0	2.2	43.9	6.6
2005	4	24	43.9	6.6	26.1	-3.3	30.4	-0.9
2005	4	25	30.3	-0.9	25.3	-3.7	28.2	-2.1
2005	4	26	35.8	2.1	28.4	-2.0	31.8	-0.1
2005	4	27	45.2	7.3	28.4	-2.0	38.4	3.6
2005	4	28	32.7	0.4	24.2	-4.3	29.0	-1.7
2005	4	29	36.1	2.3	24.2	-4.3	30.1	-1.1
2005	4	30	49.2	9.6	35.5	1.9	43.0	6.1
2005	5	1	48.4	9.1	24.7	-4.1	33.4	0.8
2005	5	2	35.0	1.7	27.5	-2.5	30.3	-1.0
2005	5	3	30.0	-1.1	20.4	-6.4	26.5	-3.1
2005	5	7	33.0	0.6	26.0	-3.3	29.8	-1.2
2005	5	8	33.5	0.8	24.9	-3.9	29.4	-1.4
2005	5	9	43.6	6.4	33.9	1.1	37.9	3.3
2005	5	10	47.1	8.4	40.9	4.9	44.0	6.6
2005	5	11	53.8	12.1	44.2	6.8	48.9	9.4
2005	5	12	50.8	10.4	20.8	-6.2	33.1	0.6
2005	5	13	36.3	2.4	22.1	-5.5	27.3	-2.6
2005	5	14	56.8	13.8	37.3	2.9	47.1	8.4
2005	5	15	56.4	13.6	38.9	3.8	48.6	9.2
2005	5	16	42.3	5.7	32.3	0.2	35.8	2.1
2005	5	17	37.8	3.2	31.0	-0.6	34.2	1.2
2005	5	18	37.2	2.9	28.1	-2.2	32.6	0.3
2005	5	19	39.4	4.1	27.4	-2.6	32.9	0.5
2005	5	20	42.7	5.9	36.5	2.5	40.2	4.5
2005	5	21	44.3	6.8	33.4	0.8	39.8	4.3
2005	5	22	44.2	6.8	35.3	1.8	39.6	4.2
2005	5	23	43.8	6.6	37.5	3.1	39.4	4.1

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2005	5	24	43.8	6.6	39.1	3.9	41.9	5.5
2005	5	25	42.5	5.8	39.6	4.2	41.2	5.1
2005	5	26	44.6	7.0	37.6	3.1	41.9	5.5
2005	5	27	49.3	9.6	40.6	4.8	44.1	6.7
2005	5	28	50.7	10.4	42.8	6.0	46.7	8.2
2005	5	29	48.5	9.2	44.0	6.7	45.8	7.7
2005	5	30	48.6	9.2	39.8	4.3	44.6	7.0
2005	5	31	52.6	11.4	43.1	6.2	46.7	8.2
2005	6	1	51.1	10.6	44.0	6.7	48.4	9.1
2005	6	2	50.0	10.0	45.1	7.3	47.2	8.4
2005	6	3	55.2	12.9	48.8	9.3	52.0	11.1
2005	6	4	58.4	14.7	54.0	12.2	56.1	13.4
2005	6	5	63.9	17.7	54.5	12.5	58.5	14.7
2005	6	6	64.4	18.0	56.9	13.8	60.2	15.7
2005	6	7	61.3	16.3	55.7	13.2	58.2	14.6
2005	6	8	61.9	16.6	55.7	13.2	58.7	14.8
2005	6	9	64.6	18.1	59.0	15.0	61.9	16.6
2005	6	10	66.9	19.4	62.6	17.0	64.7	18.2
2005	6	11	69.1	20.6	65.3	18.5	66.9	19.4
2005	6	12	67.5	19.7	58.7	14.8	63.6	17.5
2005	6	13	67.3	19.6	59.5	15.3	63.5	17.5
2005	6	14	66.5	19.2	61.6	16.4	63.7	17.6
2005	6	15	65.6	18.7	53.5	11.9	57.8	14.3
2005	6	16	58.8	14.9	50.9	10.5	56.1	13.4
2005	6	17	51.0	10.6	44.3	6.8	46.8	8.2
2005	6	18	50.8	10.4	47.5	8.6	49.1	9.5
2005	6	19	53.1	11.7	47.5	8.6	49.7	9.8
2005	6	20	53.6	12.0	48.1	8.9	50.5	10.3
2005	6	21	53.8	12.1	48.4	9.1	50.8	10.5
2005	6	22	55.7	13.2	38.4	3.6	50.3	10.2
2005	6	23	48.4	9.1	39.4	4.1	42.8	6.0
2005	6	24	56.5	13.6	44.0	6.7	51.4	10.8
2005	6	25	60.5	15.8	54.1	12.3	57.0	13.9
2005	6	26	65.9	18.8	57.8	14.3	61.4	16.3
2005	6	27	64.6	18.1	57.2	14.0	61.3	16.3
2005	6	28	63.9	17.7	57.9	14.4	62.4	16.9
2005	6	29	63.9	17.7	60.5	15.8	62.7	17.0
2005	6	30	63.4	17.4	60.0	15.6	61.8	16.5
2005	7	1	62.7	17.1	58.1	14.5	60.5	15.8
2005	7	2	61.5	16.4	46.0	7.8	50.9	10.5
2005	7	3	50.3	10.2	45.7	7.6	48.2	9.0
2005	7	4	58.2	14.6	47.1	8.4	53.6	12.0
2005	7	5	64.1	17.8	56.2	13.4	60.8	16.0
2005	7	6	61.6	16.4	58.5	14.7	60.2	15.7
2005	7	7	60.5	15.8	57.8	14.3	58.9	15.0

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2005	7	8	57.4	14.1	55.1	12.8	56.0	13.3
2005	7	9	56.9	13.8	51.9	11.1	54.1	12.3
2005	7	10	56.2	13.4	46.8	8.2	52.9	11.6
2005	7	11	66.4	19.1	49.3	9.6	57.0	13.9
2005	7	12	65.6	18.7	59.0	15.0	62.7	17.1
2005	7	13	65.0	18.3	59.5	15.3	62.1	16.7
2005	7	14	64.0	17.8	59.8	15.4	61.6	16.4
2005	7	15	64.1	17.8	60.2	15.7	62.5	17.0
2005	7	16	66.3	19.1	63.0	17.2	64.6	18.1
2005	7	17	69.1	20.6	64.4	18.0	66.2	19.0
2005	7	18	66.7	19.3	65.5	18.6	66.0	18.9
2005	7	19	66.5	19.2	61.0	16.1	64.2	17.9
2005	7	20	61.7	16.5	54.1	12.3	58.4	14.6
2005	7	21	60.6	15.9	54.3	12.4	56.9	13.8
2005	7	22	64.5	18.1	58.0	14.4	61.3	16.3
2005	7	23	60.6	15.9	43.4	6.3	50.9	10.5
2005	7	24	53.8	12.1	47.0	8.3	49.6	9.8
2005	7	25	65.5	18.6	56.0	13.3	61.1	16.1
2005	7	26	66.8	19.3	55.5	13.1	61.1	16.1
2005	7	27	69.4	20.8	52.3	11.3	61.4	16.4
2005	7	28	52.6	11.4	46.6	8.1	49.7	9.8
2005	7	29	58.6	14.8	48.8	9.3	53.6	12.0
2005	7	30	56.2	13.4	49.2	9.6	52.8	11.6
2005	7	31	60.2	15.7	54.1	12.3	56.1	13.4
2005	8	1	61.9	16.6	56.3	13.5	59.0	15.0
2005	8	2	66.3	19.1	56.2	13.4	61.1	16.2
2005	8	3	64.2	17.9	59.1	15.1	61.5	16.4
2005	8	4	62.9	17.2	53.2	11.8	59.9	15.5
2005	8	5	64.6	18.1	58.5	14.7	61.8	16.6
2005	8	6	59.8	15.4	47.9	8.8	53.3	11.8
2005	8	7	62.0	16.7	54.5	12.5	58.2	14.6
2005	8	8	64.9	18.3	59.0	15.0	61.5	16.4
2005	8	9	60.4	15.8	57.8	14.3	58.8	14.9
2005	8	10	61.0	16.1	56.4	13.6	58.8	14.9
2005	8	11	61.7	16.5	57.2	14.0	60.0	15.5
2005	8	12	64.9	18.3	55.5	13.1	59.9	15.5
2005	8	13	65.8	18.8	59.5	15.3	62.3	16.8
2005	8	14	65.2	18.4	61.0	16.1	62.5	17.0
2005	8	15	58.6	14.8	53.2	11.8	54.9	12.7
2005	8	16	59.8	15.4	57.9	14.4	58.8	14.9
2005	8	17	57.8	14.3	49.0	9.4	53.4	11.9
2005	8	18	54.7	12.6	47.6	8.7	50.5	10.3
2005	8	19	59.0	15.0	54.6	12.6	56.6	13.7
2005	8	20	62.6	17.0	55.2	12.9	59.4	15.2
2005	8	21	63.7	17.6	47.3	8.5	57.4	14.1

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2005	8	22	53.1	11.7	44.6	7.0	48.9	9.4
2005	8	23	49.3	9.6	44.6	7.0	46.9	8.3
2005	8	24	48.6	9.2	40.4	4.7	45.1	7.3
2005	8	25	48.1	8.9	42.3	5.7	44.7	7.1
2005	8	26	51.7	10.9	46.6	8.1	48.9	9.4
2005	8	27	56.8	13.8	47.7	8.7	51.9	11.0
2005	8	28	60.6	15.9	56.3	13.5	58.5	14.7
2005	8	29	63.2	17.3	54.7	12.6	59.6	15.4
2005	8	30	66.0	18.9	59.2	15.1	63.0	17.2
2005	8	31	65.1	18.4	56.4	13.6	62.5	16.9
2005	9	1	56.4	13.6	49.0	9.4	53.1	11.7
2005	9	2	55.9	13.3	43.8	6.6	49.9	10.0
2005	9	3	48.3	9.1	44.2	6.8	46.5	8.1
2005	9	4	50.7	10.4	44.7	7.1	47.2	8.4
2005	9	5	49.7	9.8	44.2	6.8	47.1	8.4
2005	9	6	51.2	10.7	44.9	7.2	47.6	8.7
2005	9	7	51.0	10.6	45.1	7.3	48.4	9.1
2005	9	8	49.8	9.9	44.9	7.2	47.4	8.5
2005	9	9	52.1	11.2	44.0	6.7	47.6	8.7
2005	9	10	47.3	8.5	35.2	1.8	42.4	5.8
2005	9	11	44.8	7.1	37.4	3.0	41.3	5.2
2005	9	12	54.2	12.3	40.1	4.5	47.1	8.4
2005	9	13	56.0	13.3	48.6	9.2	51.3	10.7
2005	9	14	61.0	16.1	47.4	8.6	55.0	12.8
2005	9	15	61.5	16.4	55.8	13.2	58.9	15.0
2005	9	16	62.1	16.7	56.6	13.7	59.3	15.2
2005	9	17	59.5	15.3	51.9	11.1	56.5	13.6
2005	9	18	52.9	11.6	48.1	8.9	49.7	9.8
2005	9	19	51.9	11.1	44.6	7.0	47.5	8.6
2005	9	20	57.2	14.0	47.3	8.5	53.6	12.0
2005	9	21	51.1	10.6	44.0	6.7	46.8	8.2
2005	9	22	55.9	13.3	42.3	5.7	48.9	9.4
2005	9	23	56.0	13.3	40.7	4.8	52.7	11.5
2005	9	24	43.6	6.4	36.0	2.2	39.8	4.3
2005	9	25	53.3	11.8	40.5	4.7	48.3	9.1
2005	9	26	59.6	15.3	53.7	12.1	56.7	13.7
2005	9	27	57.0	13.9	34.3	1.3	40.8	4.9
2005	9	28	46.8	8.2	33.8	1.0	40.4	4.7
2005	9	29	51.2	10.7	28.8	-1.8	42.2	5.7
2005	9	30	37.8	3.2	31.3	-0.4	34.6	1.5
2005	10	1	44.1	6.7	33.4	0.8	39.4	4.1
2005	10	2	47.9	8.8	39.3	4.1	44.2	6.8
2005	10	3	49.0	9.4	41.5	5.3	44.9	7.2
2005	10	4	52.5	11.4	41.7	5.4	47.6	8.7
2005	10	5	54.7	12.6	48.0	8.9	50.8	10.5

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2005	10	6	57.7	14.3	46.1	7.8	52.4	11.3
2005	10	7	59.4	15.2	56.5	13.6	58.1	14.5
2005	10	8	58.8	14.9	39.5	4.2	46.5	8.1
2005	10	9	42.8	6.0	38.8	3.8	40.5	4.7
2005	10	10	49.5	9.7	42.5	5.8	45.4	7.4
2005	10	11	49.6	9.8	46.6	8.1	47.9	8.8
2005	10	12	49.5	9.7	40.7	4.8	44.9	7.2
2005	10	13	48.7	9.3	40.8	4.9	45.4	7.4
2005	10	14	51.9	11.1	47.5	8.6	49.5	9.7
2005	10	15	48.7	9.3	29.6	-1.3	41.3	5.2
2005	10	16	36.5	2.5	31.8	-0.1	34.5	1.4
2005	10	17	36.0	2.2	32.3	0.2	34.0	1.1
2005	10	18	41.7	5.4	29.0	-1.7	36.5	2.5
2005	10	19	41.8	5.4	31.0	-0.6	36.5	2.5
2005	10	20	35.9	2.2	26.0	-3.3	29.6	-1.3
2005	10	21	34.9	1.6	31.0	-0.6	33.6	0.9
2005	10	22	37.5	3.1	31.7	-0.2	35.4	1.9
2005	10	23	35.7	2.1	29.7	-1.3	32.0	0.0
2005	10	28	29.2	-1.6	22.0	-5.6	26.1	-3.3
2005	10	29	30.2	-1.0	23.2	-4.9	27.5	-2.5
2005	10	30	34.4	1.3	28.4	-2.0	31.5	-0.3
2005	10	31	32.5	0.3	25.2	-3.8	29.5	-1.4
2005	11	1	40.2	4.6	27.8	-2.3	33.5	0.8
2005	11	2	39.7	4.3	25.5	-3.6	31.2	-0.4
2005	11	3	34.5	1.4	24.2	-4.3	30.2	-1.0
2005	11	4	37.6	3.1	28.9	-1.7	33.6	0.9
2005	11	5	45.3	7.4	34.6	1.4	39.7	4.3
2005	11	6	46.6	8.1	36.1	2.3	42.0	5.5
2005	11	7	34.8	1.6	26.0	-3.3	29.3	-1.5
2005	11	8	35.6	2.0	24.2	-4.3	29.6	-1.4
2005	11	9	45.6	7.6	26.1	-3.3	33.8	1.0
2005	11	10	44.5	6.9	16.2	-8.8	25.0	-3.9
2005	11	11	20.0	-6.7	16.0	-8.9	18.0	-7.8
2005	11	12	26.3	-3.2	17.1	-8.3	21.3	-5.9
2005	11	13	32.8	0.4	22.6	-5.2	27.1	-2.7
2005	11	14	33.6	0.9	21.2	-6.0	26.9	-2.8
2005	11	15	49.2	9.6	22.8	-5.1	36.1	2.3
2005	11	16	50.7	10.4	23.0	-5.0	43.1	6.1
2005	11	17	20.4	-6.4	8.9	-12.8	12.7	-10.7
2005	11	18	14.4	-9.8	10.7	-11.8	12.1	-11.1
2005	11	19	16.8	-8.4	12.4	-10.9	14.1	-9.9
2005	11	20	21.8	-5.7	14.6	-9.7	17.8	-7.9
2005	11	21	24.4	-4.2	17.2	-8.2	20.7	-6.3
2005	11	22	27.9	-2.3	7.5	-13.6	21.8	-5.7
2005	11	23	9.9	-12.3	3.1	-16.1	6.1	-14.4

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2005	11	24	23.0	-5.0	-5.6	-20.9	13.6	-10.2
2005	11	25	6.5	-14.2	-5.6	-20.9	1.3	-17.0
2005	11	26	14.6	-9.7	4.7	-15.2	8.4	-13.1
2005	11	27	24.2	-4.3	14.6	-9.7	18.6	-7.4
2005	11	28	44.7	7.1	27.1	-2.7	38.6	3.7
2005	11	29	48.1	8.9	38.2	3.4	44.7	7.0
2005	11	30	37.7	3.2	19.2	-7.1	27.7	-2.4
2005	12	1	18.7	-7.4	15.5	-9.2	17.4	-8.1
2005	12	2	20.6	-6.3	11.8	-11.2	15.7	-9.1
2005	12	3	10.7	-11.8	5.7	-14.6	7.8	-13.4
2005	12	4	17.3	-8.2	8.9	-12.8	14.5	-9.7
2005	12	5	14.9	-9.5	8.4	-13.1	10.7	-11.8
2005	12	6	12.3	-10.9	3.1	-16.1	9.0	-12.8
2005	12	7	6.2	-14.3	1.0	-17.2	3.6	-15.8
2005	12	8	6.7	-14.1	0.3	-17.6	4.0	-15.6
2005	12	9	14.8	-9.6	5.0	-15.0	11.4	-11.4
2005	12	10	11.5	-11.4	7.4	-13.7	9.4	-12.5
2005	12	11	18.3	-7.6	-1.2	-18.4	9.3	-12.6
2005	12	12	18.3	-7.6	-0.6	-18.1	11.1	-11.6
2005	12	13	0.7	-17.4	-8.6	-22.6	-2.6	-19.2
2005	12	14	-0.8	-18.2	-15.3	-26.3	-6.3	-21.3
2005	12	15	22.5	-5.3	-4.6	-20.3	5.4	-14.8
2005	12	16	29.7	-1.3	18.0	-7.8	22.5	-5.3
2005	12	17	17.3	-8.2	10.6	-11.9	12.4	-10.9
2005	12	18	13.8	-10.1	6.7	-14.1	10.6	-11.9
2005	12	19	12.1	-11.1	1.2	-17.1	7.4	-13.7
2005	12	20	2.2	-16.6	-2.7	-19.3	-0.9	-18.3
2005	12	21	11.0	-11.7	2.6	-16.3	6.6	-14.1
2005	12	22	14.3	-9.8	7.9	-13.4	11.5	-11.4
2005	12	23	17.2	-8.2	12.8	-10.7	15.4	-9.3
2005	12	24	21.7	-5.7	13.6	-10.2	17.3	-8.2
2005	12	25	28.2	-2.1	15.0	-9.4	20.9	-6.2
2005	12	26	26.0	-3.3	18.7	-7.4	23.7	-4.6
2005	12	27	20.1	-6.6	17.3	-8.2	18.7	-7.4
2005	12	28	25.8	-3.4	16.2	-8.8	20.2	-6.5
2005	12	29	32.0	0.0	25.3	-3.7	29.4	-1.4
2005	12	30	27.3	-2.6	15.6	-9.1	20.2	-6.5
2005	12	31	21.6	-5.8	14.3	-9.8	17.9	-7.8
2006	1	1	24.6	-4.1	21.7	-5.7	23.0	-5.0
2006	1	2	25.4	-3.7	21.1	-6.1	23.1	-4.9
2006	1	3	26.1	-3.3	22.4	-5.3	24.3	-4.3
2006	1	4	24.4	-4.2	18.7	-7.4	21.6	-5.8
2006	1	5	28.9	-1.7	23.6	-4.7	25.3	-3.7
2006	1	6	23.5	-4.7	2.6	-16.3	14.7	-9.6
2006	1	7	13.6	-10.2	3.0	-16.1	8.4	-13.1

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2006	1	8	19.4	-7.0	12.0	-11.1	16.4	-8.7
2006	1	9	29.1	-1.6	18.1	-7.7	22.7	-5.2
2006	1	10	21.8	-5.7	17.1	-8.3	19.9	-6.7
2006	1	11	35.7	2.1	18.1	-7.7	28.5	-2.0
2006	1	12	32.2	0.1	23.0	-5.0	26.6	-3.0
2006	1	13	39.4	4.1	19.6	-6.9	27.1	-2.7
2006	1	14	44.0	6.7	12.1	-11.1	32.0	0.0
2006	1	15	9.8	-12.3	-5.9	-21.1	-1.1	-18.4
2006	1	16	4.0	-15.6	-5.2	-20.7	-1.6	-18.7
2006	1	17	24.9	-3.9	2.7	-16.3	9.1	-12.7
2006	1	18	45.9	7.7	11.4	-11.4	27.3	-2.6
2006	1	19	16.2	-8.8	9.9	-12.3	12.9	-10.6
2006	1	20	28.6	-1.9	16.3	-8.7	22.0	-5.5
2006	1	21	33.0	0.6	12.2	-11.0	24.5	-4.2
2006	1	22	13.2	-10.4	9.2	-12.7	11.6	-11.3
2006	1	23	24.3	-4.3	11.0	-11.7	21.3	-5.9
2006	1	24	22.1	-5.5	14.7	-9.6	18.6	-7.5
2006	1	25	22.0	-5.6	10.1	-12.2	18.2	-7.7
2006	1	26	10.3	-12.1	1.5	-16.9	4.7	-15.2
2006	1	27	11.4	-11.4	0.4	-17.6	6.4	-14.2
2006	1	28	23.1	-4.9	10.5	-11.9	16.2	-8.8
2006	1	29	32.7	0.4	17.6	-8.0	23.3	-4.9
2006	1	30	33.9	1.1	20.1	-6.6	26.9	-2.8
2006	1	31	32.4	0.2	15.9	-8.9	26.4	-3.1
2006	2	1	17.0	-8.3	13.6	-10.2	15.6	-9.1
2006	2	2	26.1	-3.3	17.2	-8.2	21.0	-6.1
2006	2	3	37.1	2.8	24.5	-4.2	30.6	-0.8
2006	2	4	38.0	3.3	21.2	-6.0	27.6	-2.4
2006	2	5	32.9	0.5	12.0	-11.1	19.7	-6.8
2006	2	6	13.3	-10.4	6.8	-14.0	10.2	-12.1
2006	2	7	13.2	-10.4	7.2	-13.8	10.3	-12.1
2006	2	8	12.2	-11.0	5.3	-14.8	8.2	-13.2
2006	2	9	8.2	-13.2	0.6	-17.4	4.0	-15.6
2006	2	10	13.9	-10.1	7.0	-13.9	9.7	-12.4
2006	2	11	16.5	-8.6	10.6	-11.9	12.5	-10.8
2006	2	12	15.8	-9.0	2.7	-16.3	9.9	-12.3
2006	2	13	11.8	-11.2	-1.1	-18.4	6.0	-14.5
2006	2	14	17.5	-8.1	8.4	-13.1	12.8	-10.7
2006	2	15	22.5	-5.3	13.2	-10.4	17.6	-8.0
2006	2	16	30.1	-1.1	17.1	-8.3	23.1	-5.0
2006	2	17	34.8	1.6	3.6	-15.8	19.9	-6.7
2006	2	18	7.7	-13.5	-14.1	-25.6	-1.1	-18.4
2006	2	19	-3.5	-19.7	-12.7	-24.8	-6.9	-21.6
2006	2	20	2.8	-16.2	-4.5	-20.3	-0.5	-18.0
2006	2	21	11.2	-11.6	3.2	-16.0	7.6	-13.5

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2006	2	22	19.2	-7.1	7.5	-13.6	13.4	-10.4
2006	2	23	24.5	-4.2	12.2	-11.0	18.9	-7.3
2006	2	24	21.8	-5.7	-4.3	-20.2	4.4	-15.4
2006	2	25	18.3	-7.6	-3.3	-19.6	5.5	-14.7
2006	2	26	4.1	-15.5	-10.9	-23.8	-3.2	-19.5
2006	2	27	8.3	-13.2	-9.3	-22.9	-0.7	-18.2
2006	2	28	9.3	-12.6	-2.7	-19.3	1.1	-17.2
2006	3	1	6.7	-14.1	-3.0	-19.4	3.5	-15.8
2006	3	2	19.1	-7.2	4.9	-15.1	12.2	-11.0
2006	3	3	8.9	-12.8	-0.9	-18.3	4.4	-15.3
2006	3	4	13.4	-10.3	3.2	-16.0	8.1	-13.3
2006	3	5	9.4	-12.6	-0.7	-18.2	5.8	-14.6
2006	3	6	10.7	-11.8	-0.2	-17.9	6.5	-14.2
2006	3	7	9.3	-12.6	4.3	-15.4	6.5	-14.2
2006	3	8	15.8	-9.0	7.1	-13.8	10.4	-12.0
2006	3	9	28.6	-1.9	16.5	-8.6	23.6	-4.7
2006	3	10	39.7	4.3	27.4	-2.6	34.5	1.4
2006	3	11	32.3	0.2	24.2	-4.3	26.9	-2.8
2006	3	12	39.5	4.2	26.2	-3.2	34.6	1.5
2006	3	13	47.1	8.4	36.8	2.7	42.1	5.6
2006	3	14	43.9	6.6	13.9	-10.1	24.3	-4.3
2006	3	15	15.6	-9.1	5.0	-15.0	9.1	-12.7
2006	3	16	11.8	-11.2	6.4	-14.2	9.1	-12.7
2006	3	17	12.4	-10.9	-0.6	-18.1	6.4	-14.2
2006	3	18	3.7	-15.7	-0.7	-18.2	1.9	-16.8
2006	3	19	11.2	-11.6	3.8	-15.7	7.7	-13.5
2006	3	20	11.7	-11.3	3.2	-16.0	7.7	-13.5
2006	3	21	7.1	-13.8	0.2	-17.7	4.0	-15.5
2006	3	22	13.3	-10.4	5.5	-14.7	9.8	-12.4
2006	3	23	15.2	-9.3	11.6	-11.3	13.0	-10.5
2006	3	24	22.8	-5.1	10.9	-11.7	16.4	-8.7
2006	3	25	23.7	-4.6	19.4	-7.0	20.8	-6.2
2006	3	26	22.7	-5.2	17.7	-7.9	20.6	-6.4
2006	3	27	16.0	-8.9	12.4	-10.9	14.2	-9.9
2006	3	28	20.5	-6.4	14.5	-9.7	17.5	-8.1
2006	3	29	23.1	-4.9	17.8	-7.9	20.4	-6.5
2006	3	30	26.7	-2.9	16.9	-8.4	22.5	-5.3
2006	3	31	37.5	3.1	21.7	-5.7	29.8	-1.2
2006	4	1	43.0	6.1	30.5	-0.8	36.7	2.6
2006	4	2	30.9	-0.6	16.2	-8.8	21.6	-5.8
2006	4	3	31.6	-0.2	16.5	-8.6	23.8	-4.6
2006	4	4	31.9	-0.1	12.3	-10.9	18.1	-7.7
2006	4	5	22.0	-5.6	9.1	-12.7	15.6	-9.1
2006	4	6	22.4	-5.3	17.6	-8.0	20.3	-6.5
2006	4	7	40.1	4.5	19.1	-7.2	29.3	-1.5

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2006	4	8	38.9	3.8	3.3	-15.9	17.5	-8.1
2006	4	9	16.8	-8.4	3.4	-15.9	12.3	-11.0
2006	4	10	21.4	-5.9	14.8	-9.6	18.0	-7.8
2006	4	11	29.5	-1.4	17.9	-7.8	25.0	-3.9
2006	4	12	35.0	1.7	24.9	-3.9	30.3	-1.0
2006	4	13	39.7	4.3	33.0	0.6	35.9	2.2
2006	4	14	41.0	5.0	30.3	-0.9	36.3	2.4
2006	4	15	45.2	7.3	24.1	-4.4	34.4	1.4
2006	4	16	30.1	-1.1	20.6	-6.3	25.2	-3.8
2006	4	17	25.9	-3.4	19.0	-7.2	22.8	-5.1
2006	4	18	31.8	-0.1	23.7	-4.6	28.1	-2.2
2006	4	19	32.2	0.1	26.2	-3.2	28.7	-1.8
2006	4	20	32.2	0.1	20.9	-6.2	25.9	-3.4
2006	4	21	33.9	1.1	24.3	-4.3	28.9	-1.7
2006	4	22	29.9	-1.2	24.2	-4.3	27.8	-2.3
2006	4	23	38.3	3.5	28.3	-2.1	33.4	0.8
2006	4	24	37.8	3.2	29.1	-1.6	33.0	0.6
2006	4	25	36.5	2.5	23.2	-4.9	31.0	-0.5
2006	4	26	21.1	-6.1	16.1	-8.8	18.0	-7.8
2006	4	27	28.3	-2.1	16.6	-8.6	23.3	-4.8
2006	4	28	19.7	-6.8	14.8	-9.6	17.1	-8.3
2006	4	29	21.1	-6.1	10.3	-12.1	16.9	-8.4
2006	4	30	25.7	-3.5	18.0	-7.8	21.1	-6.1
2006	5	1	25.6	-3.6	19.6	-6.9	21.8	-5.7
2006	5	2	31.4	-0.3	20.9	-6.2	25.2	-3.8
2006	5	3	33.8	1.0	26.9	-2.8	29.4	-1.5
2006	5	4	37.4	3.0	28.0	-2.2	33.4	0.8
2006	5	5	38.6	3.7	30.4	-0.9	33.8	1.0
2006	5	6	35.0	1.7	22.7	-5.2	30.1	-1.1
2006	5	7	26.7	-2.9	13.4	-10.3	20.4	-6.4
2006	5	8	30.1	-1.1	22.0	-5.6	25.7	-3.5
2006	5	9	30.4	-0.9	25.2	-3.8	27.9	-2.3
2006	5	10	40.3	4.6	28.2	-2.1	35.1	1.7
2006	5	11	42.8	6.0	38.1	3.4	39.4	4.1
2006	5	12	43.2	6.2	34.2	1.2	37.3	2.9
2006	5	13	41.2	5.1	33.0	0.6	37.2	2.9
2006	5	14	39.7	4.3	35.0	1.7	37.3	3.0
2006	5	15	38.5	3.6	32.0	0.0	35.6	2.0
2006	5	16	37.1	2.8	33.7	0.9	34.9	1.6
2006	5	17	39.1	3.9	35.0	1.7	36.9	2.7
2006	5	18	41.0	5.0	31.9	-0.1	36.8	2.6
2006	5	19	34.2	1.2	30.7	-0.7	32.6	0.3
2006	5	20	34.6	1.4	24.0	-4.4	30.7	-0.7
2006	5	21	33.0	0.6	23.0	-5.0	26.5	-3.1
2006	5	22	27.4	-2.6	19.6	-6.9	24.0	-4.5

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2006	5	26	67.5	19.7	48.3	9.1	55.4	13.0
2006	5	27	61.4	16.3	54.8	12.7	57.9	14.4
2006	5	28	55.7	13.2	43.9	6.6	52.1	11.2
2006	5	29	68.4	20.2	50.8	10.4	58.5	14.7
2006	5	30	65.3	18.5	57.9	14.4	61.3	16.3
2006	5	31	62.9	17.2	58.4	14.7	60.6	15.9
2006	6	1	64.1	17.8	60.8	16.0	62.4	16.9
2006	6	2	62.3	16.8	53.5	11.9	58.7	14.9
2006	6	3	56.9	13.8	48.4	9.1	51.7	10.9
2006	6	4	52.5	11.4	48.4	9.1	50.5	10.3
2006	6	5	51.6	10.9	44.8	7.1	47.9	8.8
2006	6	6	50.8	10.4	45.7	7.6	48.5	9.2
2006	6	7	55.9	13.3	48.8	9.3	51.7	10.9
2006	6	8	57.2	14.0	49.2	9.6	52.1	11.2
2006	6	9	52.2	11.2	45.5	7.5	49.6	9.8
2006	6	10	43.8	6.6	30.3	-0.9	37.8	3.2
2006	6	11	44.7	7.1	31.1	-0.5	37.9	3.3
2006	6	12	47.3	8.5	41.7	5.4	45.3	7.4
2006	6	13	53.2	11.8	45.2	7.3	49.0	9.5
2006	6	14	54.4	12.4	50.7	10.4	52.2	11.2
2006	6	15	50.5	10.3	36.1	2.3	43.4	6.3
2006	6	16	48.7	9.3	40.6	4.8	44.0	6.7
2006	6	17	54.2	12.3	45.5	7.5	49.8	9.9
2006	6	18	60.5	15.8	51.5	10.8	56.6	13.7
2006	6	19	62.0	16.7	57.4	14.1	59.8	15.4
2006	6	20	59.8	15.4	52.3	11.3	55.9	13.3
2006	6	21	55.1	12.8	47.3	8.5	50.9	10.5
2006	6	22	64.6	18.1	51.9	11.1	58.2	14.6
2006	6	23	60.3	15.7	57.1	13.9	58.7	14.9
2006	6	24	60.5	15.8	57.6	14.2	58.9	15.0
2006	6	25	61.8	16.6	57.3	14.1	59.2	15.1
2006	6	26	64.8	18.2	58.8	14.9	61.2	16.2
2006	6	27	64.1	17.8	59.0	15.0	61.9	16.6
2006	6	28	61.6	16.4	58.3	14.6	59.6	15.4
2006	6	29	58.5	14.7	48.8	9.3	54.0	12.2
2006	6	30	51.5	10.8	48.2	9.0	50.0	10.0
2006	7	1	54.1	12.3	46.2	7.9	50.5	10.3
2006	7	2	60.7	15.9	51.8	11.0	57.2	14.0
2006	7	3	61.7	16.5	57.1	13.9	59.3	15.1
2006	7	4	62.2	16.8	58.6	14.8	59.9	15.5
2006	7	5	59.8	15.4	50.0	10.0	57.2	14.0
2006	7	6	52.4	11.3	42.8	6.0	46.5	8.0
2006	7	7	53.4	11.9	44.3	6.8	48.7	9.3
2006	7	8	56.3	13.5	48.1	8.9	51.3	10.7
2006	7	9	54.0	12.2	47.2	8.4	52.1	11.2

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2006	7	10	57.6	14.2	49.0	9.4	53.7	12.1
2006	7	11	63.5	17.5	58.5	14.7	60.8	16.0
2006	7	12	65.7	18.7	60.9	16.1	62.6	17.0
2006	7	13	62.1	16.7	55.7	13.2	58.9	14.9
2006	7	14	60.9	16.1	53.9	12.2	57.6	14.2
2006	7	15	64.4	18.0	57.5	14.2	61.3	16.3
2006	7	16	64.4	18.0	56.8	13.8	60.4	15.8
2006	7	17	66.5	19.2	58.1	14.5	62.2	16.8
2006	7	18	64.2	17.9	59.0	15.0	62.0	16.6
2006	7	19	61.4	16.3	57.0	13.9	58.8	14.9
2006	7	20	61.0	16.1	54.9	12.7	57.8	14.3
2006	7	21	63.7	17.6	58.9	14.9	61.5	16.4
2006	7	22	62.7	17.1	55.0	12.8	60.0	15.6
2006	7	23	55.2	12.9	47.6	8.7	51.0	10.6
2006	7	24	55.2	12.9	49.7	9.8	51.9	11.1
2006	7	25	60.1	15.6	51.2	10.7	56.2	13.5
2006	7	26	61.9	16.6	54.6	12.6	59.3	15.2
2006	7	27	63.8	17.7	59.2	15.1	61.1	16.2
2006	7	28	64.4	18.0	59.3	15.2	61.3	16.3
2006	7	29	62.4	16.9	56.7	13.7	60.0	15.6
2006	7	30	63.0	17.2	58.0	14.4	60.9	16.0
2006	7	31	65.3	18.5	57.8	14.3	61.9	16.6
2006	8	1	68.7	20.4	62.1	16.7	66.0	18.9
2006	8	2	67.8	19.9	64.1	17.8	65.6	18.7
2006	8	3	65.6	18.7	61.0	16.1	63.7	17.6
2006	8	4	62.0	16.7	51.5	10.8	57.2	14.0
2006	8	5	54.2	12.3	47.4	8.6	50.7	10.4
2006	8	6	55.1	12.8	47.0	8.3	51.3	10.7
2006	8	7	63.5	17.5	53.8	12.1	59.6	15.3
2006	8	8	61.8	16.6	41.4	5.2	50.8	10.4
2006	8	9	48.3	9.1	41.6	5.3	45.4	7.4
2006	8	10	55.4	13.0	45.7	7.6	50.4	10.2
2006	8	11	50.4	10.2	37.7	3.2	43.1	6.2
2006	8	12	42.3	5.7	38.3	3.5	40.1	4.5
2006	8	13	43.9	6.6	36.1	2.3	39.5	4.2
2006	8	14	58.6	14.8	42.3	5.7	49.7	9.8
2006	8	15	60.7	15.9	47.4	8.6	55.1	12.8
2006	8	16	52.9	11.6	47.0	8.3	50.5	10.3
2006	8	17	54.2	12.3	46.4	8.0	50.6	10.4
2006	8	18	53.6	12.0	50.0	10.0	51.9	11.0
2006	8	19	62.9	17.2	51.5	10.8	57.5	14.1
2006	8	20	62.3	16.8	48.7	9.3	57.1	13.9
2006	8	21	50.8	10.4	47.3	8.5	48.7	9.3
2006	8	22	52.3	11.3	45.7	7.6	49.4	9.7
2006	8	23	52.2	11.2	42.5	5.8	47.2	8.4

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2006	8	24	53.5	11.9	46.6	8.1	51.0	10.5
2006	8	25	57.6	14.2	49.8	9.9	53.4	11.9
2006	8	26	55.4	13.0	52.3	11.3	53.8	12.1
2006	8	27	57.9	14.4	52.3	11.3	54.9	12.7
2006	8	28	61.7	16.5	56.2	13.4	58.9	15.0
2006	8	29	62.0	16.7	56.6	13.7	59.2	15.1
2006	8	30	55.8	13.2	51.7	10.9	53.9	12.2
2006	8	31	50.8	10.4	44.1	6.7	46.7	8.2
2006	9	1	46.5	8.1	42.7	5.9	44.2	6.8
2006	9	2	49.8	9.9	42.3	5.7	46.3	7.9
2006	9	3	50.7	10.4	44.8	7.1	47.3	8.5
2006	9	4	50.7	10.4	45.2	7.3	47.4	8.5
2006	9	5	52.1	11.2	47.7	8.7	49.7	9.8
2006	9	6	50.8	10.4	46.9	8.3	49.4	9.7
2006	9	7	50.9	10.5	42.5	5.8	47.4	8.6
2006	9	8	52.8	11.6	43.9	6.6	49.1	9.5
2006	9	9	54.7	12.6	45.9	7.7	50.3	10.2
2006	9	10	49.4	9.7	44.3	6.8	46.9	8.3
2006	9	11	45.2	7.3	37.4	3.0	40.5	4.7
2006	9	12	41.7	5.4	33.7	0.9	38.2	3.4
2006	9	13	47.2	8.4	36.0	2.2	43.3	6.3
2006	9	14	52.8	11.6	47.7	8.7	50.8	10.5
2006	9	15	54.1	12.3	49.6	9.8	51.8	11.0
2006	9	16	54.4	12.4	50.4	10.2	51.8	11.0
2006	9	17	54.8	12.7	47.6	8.7	50.7	10.4
2006	9	18	54.9	12.7	45.3	7.4	51.0	10.6
2006	9	19	56.2	13.4	43.8	6.6	51.3	10.7
2006	9	20	45.5	7.5	36.5	2.5	40.7	4.8
2006	9	21	39.4	4.1	32.9	0.5	36.1	2.3
2006	9	22	42.0	5.6	34.3	1.3	38.4	3.6
2006	9	23	55.5	13.1	42.2	5.7	50.7	10.4
2006	9	24	56.9	13.8	41.6	5.3	50.7	10.4
2006	9	25	43.3	6.3	36.7	2.6	40.1	4.5
2006	9	26	40.7	4.8	35.2	1.8	37.6	3.1
2006	9	27	44.6	7.0	34.6	1.4	40.5	4.7
2006	9	28	49.9	9.9	40.7	4.8	45.6	7.5
2006	9	29	44.9	7.2	29.8	-1.2	35.5	1.9
2006	9	30	40.9	4.9	30.5	-0.8	35.8	2.1
2006	10	1	44.0	6.7	39.4	4.1	41.5	5.3
2006	10	2	42.5	5.8	35.0	1.7	38.7	3.7
2006	10	3	51.6	10.9	37.6	3.1	44.8	7.1
2006	10	4	53.6	12.0	45.1	7.3	49.8	9.9
2006	10	5	47.8	8.8	30.2	-1.0	34.5	1.4
2006	10	6	33.1	0.6	28.4	-2.0	30.8	-0.7
2006	10	7	36.6	2.6	27.8	-2.3	32.2	0.1

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

(Page 47 of 48)

Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2006	10	8	44.8	7.1	31.4	-0.3	38.4	3.5
2006	10	9	49.2	9.6	35.7	2.1	43.6	6.4
2006	10	10	46.7	8.2	40.4	4.7	44.0	6.7
2006	10	11	46.3	7.9	43.1	6.2	44.5	7.0
2006	10	12	48.1	8.9	14.9	-9.5	34.7	1.5
2006	10	13	22.6	-5.2	16.9	-8.4	19.7	-6.9
2006	10	14	25.2	-3.8	16.7	-8.5	20.8	-6.2
2006	10	15	25.5	-3.6	18.6	-7.4	22.7	-5.2
2006	10	16	29.3	-1.5	21.3	-5.9	25.3	-3.7
2006	10	17	48.5	9.2	29.4	-1.4	39.0	3.9
2006	10	18	49.0	9.4	42.8	6.0	46.7	8.1
2006	10	19	50.9	10.5	40.9	4.9	45.4	7.5
2006	10	20	51.4	10.8	25.9	-3.4	36.8	2.7
2006	10	21	30.3	-0.9	27.1	-2.7	28.8	-1.8
2006	10	22	36.5	2.5	26.9	-2.8	31.1	-0.5
2006	10	23	34.4	1.3	19.4	-7.0	24.0	-4.4
2006	10	24	22.9	-5.1	21.0	-6.1	22.0	-5.6
2006	10	25	24.6	-4.1	22.2	-5.4	23.3	-4.9
2006	10	26	22.9	-5.1	18.4	-7.6	20.2	-6.6
2006	10	27	31.4	-0.3	18.3	-7.6	22.5	-5.3
2006	10	28	43.9	6.6	24.7	-4.1	33.5	0.8
2006	10	29	24.0	-4.4	14.4	-9.8	19.0	-7.2
2006	10	30	25.7	-3.5	14.9	-9.5	21.4	-5.9
2006	11	2	42.1	5.6	17.7	-7.9	28.6	-1.9
2006	11	3	20.8	-6.2	17.0	-8.3	19.5	-7.0
2006	11	4	22.3	-5.4	17.7	-7.9	20.0	-6.7
2006	11	5	24.7	-4.1	17.8	-7.9	21.9	-5.6
2006	11	6	29.5	-1.4	21.6	-5.8	25.2	-3.8
2006	11	7	40.4	4.7	26.8	-2.9	33.5	0.9
2006	11	8	49.5	9.7	41.1	5.1	47.1	8.4
2006	11	9	46.7	8.2	39.0	3.9	43.1	6.2
2006	11	10	38.5	3.6	30.1	-1.1	33.9	1.0
2006	11	11	46.6	8.1	31.7	-0.2	40.3	4.6
2006	11	12	47.0	8.3	31.6	-0.2	36.1	2.3
2006	11	13	40.0	4.4	33.0	0.6	36.3	2.4
2006	11	14	43.7	6.5	40.3	4.6	42.2	5.7
2006	11	15	46.2	7.9	42.1	5.6	43.6	6.4
2006	11	16	56.4	13.6	44.2	6.8	50.6	10.3
2006	11	17	48.3	9.1	26.7	-2.9	34.6	1.5
2006	11	18	27.9	-2.3	24.9	-3.9	26.3	-3.2
2006	11	19	28.0	-2.2	22.0	-5.6	25.5	-3.6
2006	11	20	21.5	-5.8	18.7	-7.4	20.1	-6.6
2006	11	21	21.6	-5.8	16.2	-8.8	19.3	-7.0
2006	11	22	20.5	-6.4	18.5	-7.5	19.6	-6.9
2006	11	23	34.4	1.3	17.9	-7.8	29.7	-1.3

Table 2.3-83 {SSES Daily Average and Extreme Dew Point Temperatures (2001-2006)}

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Year	Month	Day	Max T_d (°F)	Max T_d (°C)	Min T_d (°F)	Min T_d (°C)	Aver T_d (°F)	Aver T_d (°C)
2006	11	24	29.7	-1.3	21.8	-5.7	26.5	-3.1
2006	11	25	29.4	-1.4	20.9	-6.2	25.6	-3.6
2006	11	26	33.1	0.6	23.9	-4.5	29.0	-1.6
2006	11	27	35.3	1.8	27.4	-2.6	31.9	-0.1
2006	11	28	40.0	4.4	29.2	-1.6	34.6	1.4
2006	11	29	43.2	6.2	38.8	3.8	41.3	5.2
2006	11	30	49.3	9.6	42.6	5.9	46.5	8.0
2006	12	1	54.9	12.7	22.0	-5.6	46.7	8.2
2006	12	2	21.1	-6.1	16.0	-8.9	18.4	-7.5
2006	12	3	19.5	-6.9	15.1	-9.4	17.4	-8.1
2006	12	4	19.7	-6.8	7.3	-13.7	11.7	-11.3
2006	12	5	13.7	-10.2	7.8	-13.4	10.5	-11.9
2006	12	6	20.7	-6.3	11.4	-11.4	16.1	-8.8
2006	12	7	25.5	-3.6	-0.5	-18.1	17.0	-8.4
2006	12	8	12.0	-11.1	-7.3	-21.8	1.8	-16.8
2006	12	9	6.2	-14.3	2.5	-16.4	4.5	-15.3
2006	12	10	21.3	-5.9	3.8	-15.7	12.2	-11.0
2006	12	11	22.4	-5.3	16.7	-8.5	19.4	-7.0
2006	12	12	31.0	-0.6	22.2	-5.4	26.7	-2.9
2006	12	13	38.9	3.8	29.7	-1.3	35.3	1.8
2006	12	14	36.6	2.6	25.4	-3.7	30.5	-0.8
2006	12	15	35.9	2.2	28.6	-1.9	0.0	-17.8
2006	12	18	46.5	8.1	21.3	-5.9	37.9	3.3
2006	12	19	23.0	-5.0	16.3	-8.7	19.8	-6.8
2006	12	20	21.2	-6.0	15.1	-9.4	18.0	-7.8
2006	12	21	24.7	-4.1	17.6	-8.0	20.8	-6.2
2006	12	22	36.9	2.7	19.9	-6.7	26.4	-3.1
2006	12	23	41.1	5.1	26.5	-3.1	34.3	1.3
2006	12	24	27.8	-2.3	22.8	-5.1	25.5	-3.6
2006	12	25	32.6	0.3	19.0	-7.2	23.5	-4.7
2006	12	26	35.2	1.8	24.1	-4.4	31.5	-0.3
2006	12	27	25.6	-3.6	15.9	-8.9	19.3	-7.1
2006	12	28	25.6	-3.6	16.2	-8.8	20.7	-6.3
2006	12	29	27.1	-2.7	21.6	-5.8	24.6	-4.1
2006	12	30	30.7	-0.7	21.4	-5.9	26.4	-3.1
2006	12	31	27.0	-2.8	17.9	-7.8	19.5	-6.9

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (^{o}F)	Max T (^{o}F)	Aver T (^{o}F)	Min T_d (^{o}F)	Max T_d (^{o}F)	Aver T_d (^{o}F)	Min T (^{o}C)	Max T (^{o}C)	Aver T (^{o}C)	Min T_d (^{o}C)	Max T_d (^{o}C)	Aver T_d (^{o}C)
1/1/2000	20.0	43.0	28.7	17.0	28.0	24.1	-6.7	6.1	-1.8	-8.3	-2.2	-4.4
1/2/2000	28.0	56.0	36.6	26.0	45.0	32.6	-2.2	13.3	2.6	-3.3	7.2	0.3
1/3/2000	43.0	57.0	49.5	40.0	52.0	46.1	6.1	13.9	9.7	4.4	11.1	7.8
1/4/2000	46.0	61.0	55.9	34.0	54.0	51.1	7.8	16.1	13.3	1.1	12.2	10.6
1/5/2000	29.0	47.0	35.1	14.0	34.0	19.8	-1.7	8.3	1.7	-10.0	1.1	-6.8
1/6/2000	21.0	39.0	28.3	15.0	25.0	18.0	-6.1	3.9	-2.1	-9.4	-3.9	-7.8
1/7/2000	28.0	41.0	33.6	19.0	28.0	24.5	-2.2	5.0	0.9	-7.2	-2.2	-4.2
1/8/2000	22.0	39.0	31.3	15.0	21.0	17.4	-5.6	3.9	-0.4	-9.4	-6.1	-8.1
1/9/2000	30.0	47.0	36.1	18.0	30.0	24.1	-1.1	8.3	2.3	-7.8	-1.1	-4.4
1/10/2000	37.0	43.0	39.9	30.0	43.0	37.2	2.8	6.1	4.4	-1.1	6.1	2.9
1/11/2000	35.0	49.0	43.5	18.0	40.0	29.4	1.7	9.4	6.4	-7.8	4.4	-1.4
1/12/2000	35.0	44.0	38.6	17.0	28.0	22.9	1.7	6.7	3.7	-8.3	-2.2	-5.1
1/13/2000	19.0	35.0	30.5	7.0	28.0	23.0	-7.2	1.7	-0.8	-13.9	-2.2	-5.0
1/14/2000	10.0	25.0	17.3	-2.0	7.0	2.3	-12.2	-3.9	-8.2	-18.9	-13.9	-16.5
1/15/2000	14.0	27.0	19.9	4.0	15.0	10.0	-10.0	-2.8	-6.7	-15.6	-9.4	-12.2
1/16/2000	27.0	48.0	31.7	11.0	27.0	16.8	-2.8	8.9	-0.2	-11.7	-2.8	-8.4
1/17/2000	4.0	29.0	12.4	-11.0	18.0	-5.2	-15.6	-1.7	-10.9	-23.9	-7.8	-20.7
1/18/2000	3.0	17.0	8.1	-10.0	1.0	-3.3	-16.1	-8.3	-13.3	-23.3	-17.2	-19.6
1/19/2000	10.0	32.0	18.6	2.0	18.0	9.8	-12.2	0.0	-7.4	-16.7	-7.8	-12.3
1/20/2000	24.0	28.0	26.3	16.0	27.0	22.7	-4.4	-2.2	-3.2	-8.9	-2.8	-5.2
1/21/2000	6.0	27.0	13.8	-7.0	18.0	-1.1	-14.4	-2.8	-10.1	-21.7	-7.8	-18.4
1/22/2000	0.0	19.0	8.1	-7.0	3.0	-2.0	-17.8	-7.2	-13.3	-21.7	-16.1	-18.9
1/23/2000	14.0	25.0	18.4	4.0	18.0	11.0	-10.0	-3.9	-7.6	-15.6	-7.8	-11.7
1/24/2000	21.0	34.0	26.4	14.0	21.0	18.4	-6.1	1.1	-3.1	-10.0	-6.1	-7.6
1/25/2000	16.0	24.0	20.8	9.0	19.0	15.4	-8.9	-4.4	-6.2	-12.8	-7.2	-9.2
1/26/2000	21.0	27.0	23.4	10.0	18.0	14.0	-6.1	-2.8	-4.8	-12.2	-7.8	-10.0
1/27/2000	6.0	24.0	14.1	-5.0	14.0	0.8	-14.4	-4.4	-9.9	-20.6	-10.0	-17.3
1/28/2000	6.0	23.0	12.6	-8.0	0.0	-3.7	-14.4	-5.0	-10.8	-22.2	-17.8	-19.8
1/29/2000	1.0	34.0	16.0	-8.0	10.0	1.2	-17.2	1.1	-8.9	-22.2	-12.2	-17.1
1/30/2000	8.0	31.0	19.4	4.0	25.0	12.9	-13.3	-0.6	-7.0	-15.6	-3.9	-10.6
1/31/2000	18.0	30.0	25.7	15.0	25.0	21.3	-7.8	-1.1	-3.5	-9.4	-3.9	-5.9
2/1/2000	26.0	31.0	28.0	14.0	21.0	17.2	-3.3	-0.6	-2.2	-10.0	-6.1	-8.2
2/2/2000	19.0	30.0	24.0	0.0	21.0	7.3	-7.2	-1.1	-4.4	-17.8	-6.1	-13.7
2/3/2000	10.0	27.0	19.5	2.0	21.0	12.4	-12.2	-2.8	-6.9	-16.7	-6.1	-10.9
2/4/2000	24.0	31.0	25.9	21.0	27.0	22.7	-4.4	-0.6	-3.4	-6.1	-2.8	-5.2
2/5/2000	17.0	31.0	27.1	9.0	29.0	19.0	-8.3	-0.6	-2.7	-12.8	-1.7	-7.2
2/6/2000	25.0	36.0	29.5	10.0	21.0	15.3	-3.9	2.2	-1.4	-12.2	-6.1	-9.3
2/7/2000	25.0	38.0	31.1	15.0	26.0	19.3	-3.9	3.3	-0.5	-9.4	-3.3	-7.1
2/8/2000	7.0	32.0	20.5	2.0	19.0	6.9	-13.9	0.0	-6.4	-16.7	-7.2	-13.9
2/9/2000	12.0	42.0	22.9	4.0	25.0	11.4	-11.1	5.6	-5.1	-15.6	-3.9	-11.4
2/10/2000	19.0	44.0	28.2	18.0	29.0	22.5	-7.2	6.7	-2.1	-7.8	-1.7	-5.3
2/11/2000	32.0	44.0	39.5	19.0	36.0	32.2	0.0	6.7	4.2	-7.2	2.2	0.1
2/12/2000	18.0	32.0	24.9	5.0	20.0	10.6	-7.8	0.0	-3.9	-15.0	-6.7	-11.9
2/13/2000	15.0	29.0	22.3	8.0	23.0	12.9	-9.4	-1.7	-5.4	-13.3	-5.0	-10.6

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
2/14/2000	29.0	38.0	34.3	23.0	36.0	32.8	-1.7	3.3	1.3	-5.0	2.2	0.4
2/15/2000	28.0	37.0	33.0	16.0	34.0	22.4	-2.2	2.8	0.6	-8.9	1.1	-5.3
2/16/2000	26.0	47.0	35.6	20.0	31.0	25.3	-3.3	8.3	2.0	-6.7	-0.6	-3.7
2/17/2000	21.0	40.0	28.8	7.0	27.0	11.7	-6.1	4.4	-1.8	-13.9	-2.8	-11.3
2/18/2000	26.0	30.0	28.0	10.0	28.0	22.6	-3.3	-1.1	-2.2	-12.2	-2.2	-5.2
2/19/2000	30.0	34.0	31.4	21.0	32.0	28.2	-1.1	1.1	-0.3	-6.1	0.0	-2.1
2/20/2000	27.0	35.0	30.6	21.0	26.0	23.3	-2.8	1.7	-0.8	-6.1	-3.3	-4.8
2/21/2000	20.0	40.0	29.9	17.0	25.0	21.6	-6.7	4.4	-1.2	-8.3	-3.9	-5.8
2/22/2000	20.0	48.0	31.9	19.0	29.0	23.7	-6.7	8.9	-0.1	-7.2	-1.7	-4.6
2/23/2000	38.0	52.0	43.8	26.0	32.0	28.8	3.3	11.1	6.6	-3.3	0.0	-1.8
2/24/2000	30.0	51.0	38.5	30.0	37.0	33.0	-1.1	10.6	3.6	-1.1	2.8	0.6
2/25/2000	35.0	57.0	42.4	34.0	48.0	38.7	1.7	13.9	5.8	1.1	8.9	3.7
2/26/2000	39.0	48.0	42.9	37.0	45.0	39.5	3.9	8.9	6.1	2.8	7.2	4.2
2/27/2000	42.0	52.0	45.4	41.0	49.0	43.8	5.6	11.1	7.4	5.0	9.4	6.6
2/28/2000	36.0	50.0	45.3	22.0	49.0	36.5	2.2	10.0	7.4	-5.6	9.4	2.5
2/29/2000	29.0	55.0	39.9	19.0	28.0	23.8	-1.7	12.8	4.4	-7.2	-2.2	-4.6
3/1/2000	30.0	50.0	38.8	19.0	39.0	27.5	-1.1	10.0	3.8	-7.2	3.9	-2.5
3/2/2000	36.0	45.0	40.0	24.0	40.0	29.1	2.2	7.2	4.4	-4.4	4.4	-1.6
3/3/2000	32.0	47.0	38.3	6.0	25.0	16.3	0.0	8.3	3.5	-14.4	-3.9	-8.7
3/4/2000	27.0	54.0	38.3	6.0	23.0	19.7	-2.8	12.2	3.5	-14.4	-5.0	-6.8
3/5/2000	31.0	58.0	44.8	22.0	27.0	25.2	-0.6	14.4	7.1	-5.6	-2.8	-3.8
3/6/2000	30.0	56.0	42.6	20.0	28.0	25.3	-1.1	13.3	5.9	-6.7	-2.2	-3.7
3/7/2000	28.0	67.0	43.1	24.0	34.0	27.5	-2.2	19.4	6.2	-4.4	1.1	-2.5
3/8/2000	40.0	81.0	56.5	32.0	54.0	40.5	4.4	27.2	13.6	0.0	12.2	4.7
3/9/2000	39.0	79.0	53.5	39.0	54.0	45.7	3.9	26.1	11.9	3.9	12.2	7.6
3/10/2000	41.0	58.0	47.4	32.0	54.0	39.4	5.0	14.4	8.6	0.0	12.2	4.1
3/11/2000	37.0	45.0	41.1	31.0	43.0	37.5	2.8	7.2	5.1	-0.6	6.1	3.1
3/12/2000	34.0	41.0	38.3	17.0	40.0	34.0	1.1	5.0	3.5	-8.3	4.4	1.1
3/13/2000	26.0	47.0	35.1	14.0	28.0	19.8	-3.3	8.3	1.7	-10.0	-2.2	-6.8
3/14/2000	28.0	53.0	38.8	24.0	39.0	28.4	-2.2	11.7	3.8	-4.4	3.9	-2.0
3/15/2000	30.0	67.0	42.1	30.0	39.0	33.4	-1.1	19.4	5.6	-1.1	3.9	0.8
3/16/2000	41.0	64.0	52.5	32.0	52.0	41.0	5.0	17.8	11.4	0.0	11.1	5.0
3/17/2000	28.0	52.0	36.7	10.0	52.0	30.3	-2.2	11.1	2.6	-12.2	11.1	-0.9
3/18/2000	19.0	41.0	27.8	0.0	11.0	5.1	-7.2	5.0	-2.3	-17.8	-11.7	-14.9
3/19/2000	28.0	46.0	35.5	8.0	27.0	18.8	-2.2	7.8	1.9	-13.3	-2.8	-7.3
3/20/2000	36.0	52.0	42.5	21.0	28.0	26.7	2.2	11.1	5.8	-6.1	-2.2	-2.9
3/21/2000	39.0	48.0	41.7	24.0	40.0	35.2	3.9	8.9	5.4	-4.4	4.4	1.8
3/22/2000	41.0	59.0	45.8	39.0	45.0	41.0	5.0	15.0	7.7	3.9	7.2	5.0
3/23/2000	45.0	60.0	51.2	41.0	45.0	42.8	7.2	15.6	10.7	5.0	7.2	6.0
3/24/2000	35.0	66.0	45.5	31.0	43.0	37.2	1.7	18.9	7.5	-0.6	6.1	2.9
3/25/2000	42.0	68.0	52.6	35.0	55.0	43.9	5.6	20.0	11.4	1.7	12.8	6.6
3/26/2000	39.0	61.0	52.1	11.0	54.0	32.5	3.9	16.1	11.2	-11.7	12.2	0.3
3/27/2000	30.0	61.0	44.9	15.0	46.0	27.7	-1.1	16.1	7.2	-9.4	7.8	-2.4
3/28/2000	42.0	59.0	49.0	21.0	48.0	37.1	5.6	15.0	9.4	-6.1	8.9	2.8

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
3/29/2000	39.0	47.0	43.0	31.0	38.0	34.1	3.9	8.3	6.1	-0.6	3.3	1.2
3/30/2000	39.0	52.0	44.1	21.0	36.0	30.6	3.9	11.1	6.7	-6.1	2.2	-0.8
3/31/2000	27.0	59.0	43.5	21.0	28.0	23.8	-2.8	15.0	6.4	-6.1	-2.2	-4.6
4/1/2000	29.0	66.0	45.2	22.0	30.0	26.2	-1.7	18.9	7.3	-5.6	-1.1	-3.2
4/2/2000	41.0	62.0	52.2	28.0	50.0	38.7	5.0	16.7	11.2	-2.2	10.0	3.7
4/3/2000	52.0	72.0	58.6	50.0	58.0	53.8	11.1	22.2	14.8	10.0	14.4	12.1
4/4/2000	45.0	69.0	59.3	32.0	61.0	54.7	7.2	20.6	15.2	0.0	16.1	12.6
4/5/2000	34.0	47.0	40.1	18.0	32.0	22.7	1.1	8.3	4.5	-7.8	0.0	-5.2
4/6/2000	34.0	72.0	49.4	24.0	38.0	28.9	1.1	22.2	9.7	-4.4	3.3	-1.7
4/7/2000	38.0	61.0	48.9	31.0	43.0	34.6	3.3	16.1	9.4	-0.6	6.1	1.4
4/8/2000	43.0	72.0	52.6	36.0	54.0	44.5	6.1	22.2	11.4	2.2	12.2	6.9
4/9/2000	28.0	48.0	34.9	15.0	45.0	27.1	-2.2	8.9	1.6	-9.4	7.2	-2.7
4/10/2000	37.0	53.0	43.3	12.0	31.0	23.3	2.8	11.7	6.3	-11.1	-0.6	-4.8
4/11/2000	34.0	49.0	40.8	13.0	32.0	25.1	1.1	9.4	4.9	-10.6	0.0	-3.8
4/12/2000	37.0	47.0	43.0	16.0	43.0	28.0	2.8	8.3	6.1	-8.9	6.1	-2.2
4/13/2000	27.0	52.0	38.7	12.0	25.0	19.5	-2.8	11.1	3.7	-11.1	-3.9	-6.9
4/14/2000	40.0	61.0	49.0	17.0	40.0	28.5	4.4	16.1	9.4	-8.3	4.4	-1.9
4/15/2000	43.0	72.0	57.4	39.0	56.0	45.4	6.1	22.2	14.1	3.9	13.3	7.4
4/16/2000	48.0	81.0	58.6	46.0	55.0	51.6	8.9	27.2	14.8	7.8	12.8	10.9
4/17/2000	45.0	58.0	47.7	39.0	46.0	43.5	7.2	14.4	8.7	3.9	7.8	6.4
4/18/2000	39.0	45.0	42.6	38.0	42.0	39.7	3.9	7.2	5.9	3.3	5.6	4.3
4/19/2000	41.0	63.0	48.6	39.0	52.0	43.2	5.0	17.2	9.2	3.9	11.1	6.2
4/20/2000	51.0	61.0	56.6	49.0	55.0	51.8	10.6	16.1	13.7	9.4	12.8	11.0
4/21/2000	50.0	62.0	52.9	45.0	52.0	48.5	10.0	16.7	11.6	7.2	11.1	9.2
4/22/2000	45.0	52.0	48.5	38.0	48.0	44.1	7.2	11.1	9.2	3.3	8.9	6.7
4/23/2000	41.0	51.0	44.4	37.0	39.0	37.9	5.0	10.6	6.9	2.8	3.9	3.3
4/24/2000	41.0	67.0	52.9	33.0	41.0	36.8	5.0	19.4	11.6	0.6	5.0	2.7
4/25/2000	38.0	63.0	52.8	28.0	36.0	32.6	3.3	17.2	11.6	-2.2	2.2	0.3
4/26/2000	41.0	59.0	49.6	22.0	36.0	31.1	5.0	15.0	9.8	-5.6	2.2	-0.5
4/27/2000	43.0	54.0	47.8	35.0	45.0	39.8	6.1	12.2	8.8	1.7	7.2	4.3
4/28/2000	43.0	64.0	49.6	33.0	44.0	40.8	6.1	17.8	9.8	0.6	6.7	4.9
4/29/2000	37.0	71.0	54.7	30.0	41.0	35.3	2.8	21.7	12.6	-1.1	5.0	1.8
4/30/2000	48.0	65.0	57.0	19.0	41.0	29.4	8.9	18.3	13.9	-7.2	5.0	-1.4
5/1/2000	35.0	72.0	53.7	20.0	40.0	31.2	1.7	22.2	12.1	-6.7	4.4	-0.4
5/2/2000	53.0	69.0	58.1	31.0	54.0	46.1	11.7	20.6	14.5	-0.6	12.2	7.8
5/3/2000	37.0	71.0	54.5	32.0	41.0	36.9	2.8	21.7	12.5	0.0	5.0	2.7
5/4/2000	56.0	73.0	64.0	40.0	61.0	48.0	13.3	22.8	17.8	4.4	16.1	8.9
5/5/2000	59.0	86.0	67.5	56.0	62.0	59.7	15.0	30.0	19.7	13.3	16.7	15.4
5/6/2000	56.0	88.0	71.1	55.0	68.0	59.2	13.3	31.1	21.7	12.8	20.0	15.1
5/7/2000	58.0	91.0	72.8	55.0	66.0	60.0	14.4	32.8	22.7	12.8	18.9	15.6
5/8/2000	61.0	88.0	71.2	57.0	66.0	62.1	16.1	31.1	21.8	13.9	18.9	16.7
5/9/2000	59.0	91.0	74.6	58.0	64.0	61.5	15.0	32.8	23.7	14.4	17.8	16.4
5/10/2000	63.0	85.0	73.3	46.0	67.0	61.5	17.2	29.4	22.9	7.8	19.4	16.4
5/11/2000	51.0	77.0	62.5	34.0	48.0	42.5	10.6	25.0	16.9	1.1	8.9	5.8

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
5/12/2000	57.0	78.0	64.7	47.0	61.0	52.5	13.9	25.6	18.2	8.3	16.1	11.4
5/13/2000	62.0	81.0	68.5	48.0	68.0	62.0	16.7	27.2	20.3	8.9	20.0	16.7
5/14/2000	47.0	70.0	59.5	34.0	52.0	44.1	8.3	21.1	15.3	1.1	11.1	6.7
5/15/2000	39.0	65.0	53.0	28.0	40.0	33.8	3.9	18.3	11.7	-2.2	4.4	1.0
5/16/2000	35.0	66.0	51.1	29.0	40.0	36.1	1.7	18.9	10.6	-1.7	4.4	2.3
5/17/2000	43.0	73.0	59.3	40.0	50.0	45.7	6.1	22.8	15.2	4.4	10.0	7.6
5/18/2000	61.0	84.0	67.6	50.0	63.0	58.3	16.1	28.9	19.8	10.0	17.2	14.6
5/19/2000	52.0	66.0	56.9	50.0	63.0	55.6	11.1	18.9	13.8	10.0	17.2	13.1
5/20/2000	47.0	54.0	49.9	45.0	50.0	46.9	8.3	12.2	9.9	7.2	10.0	8.3
5/21/2000	51.0	61.0	54.5	49.0	55.0	51.9	10.6	16.1	12.5	9.4	12.8	11.1
5/22/2000	55.0	60.0	56.7	53.0	57.0	54.9	12.8	15.6	13.7	11.7	13.9	12.7
5/23/2000	55.0	63.0	57.1	53.0	59.0	55.1	12.8	17.2	13.9	11.7	15.0	12.8
5/24/2000	56.0	77.0	63.9	54.0	63.0	58.6	13.3	25.0	17.7	12.2	17.2	14.8
5/25/2000	55.0	74.0	61.5	42.0	62.0	53.8	12.8	23.3	16.4	5.6	16.7	12.1
5/26/2000	51.0	75.0	62.5	39.0	48.0	44.3	10.6	23.9	16.9	3.9	8.9	6.8
5/27/2000	47.0	69.0	56.9	40.0	54.0	47.1	8.3	20.6	13.8	4.4	12.2	8.4
5/28/2000	48.0	65.0	54.7	46.0	54.0	49.4	8.9	18.3	12.6	7.8	12.2	9.7
5/29/2000	56.0	65.0	60.6	47.0	53.0	50.4	13.3	18.3	15.9	8.3	11.7	10.2
5/30/2000	46.0	70.0	56.5	46.0	52.0	48.7	7.8	21.1	13.6	7.8	11.1	9.3
5/31/2000	49.0	73.0	59.5	46.0	58.0	50.9	9.4	22.8	15.3	7.8	14.4	10.5
6/1/2000	59.0	85.0	70.3	57.0	73.0	62.6	15.0	29.4	21.3	13.9	22.8	17.0
6/2/2000	64.0	91.0	71.0	63.0	71.0	66.5	17.8	32.8	21.7	17.2	21.7	19.2
6/3/2000	55.0	71.0	64.1	44.0	67.0	49.8	12.8	21.7	17.8	6.7	19.4	9.9
6/4/2000	46.0	72.0	59.9	44.0	65.0	48.5	7.8	22.2	15.5	6.7	18.3	9.2
6/5/2000	54.0	67.0	56.7	50.0	57.0	54.0	12.2	19.4	13.7	10.0	13.9	12.2
6/6/2000	52.0	57.0	54.8	48.0	54.0	52.5	11.1	13.9	12.7	8.9	12.2	11.4
6/7/2000	51.0	76.0	61.5	45.0	57.0	48.1	10.6	24.4	16.4	7.2	13.9	8.9
6/8/2000	53.0	80.0	65.3	49.0	58.0	54.1	11.7	26.7	18.5	9.4	14.4	12.3
6/9/2000	56.0	86.0	71.0	52.0	65.0	58.1	13.3	30.0	21.7	11.1	18.3	14.5
6/10/2000	58.0	91.0	74.8	57.0	64.0	61.5	14.4	32.8	23.8	13.9	17.8	16.4
6/11/2000	62.0	90.0	74.2	61.0	72.0	64.9	16.7	32.2	23.4	16.1	22.2	18.3
6/12/2000	68.0	81.0	72.0	68.0	72.0	70.3	20.0	27.2	22.2	20.0	22.2	21.3
6/13/2000	61.0	72.0	65.3	59.0	70.0	63.3	16.1	22.2	18.5	15.0	21.1	17.4
6/14/2000	60.0	65.0	62.3	59.0	61.0	60.1	15.6	18.3	16.8	15.0	16.1	15.6
6/15/2000	60.0	72.0	65.3	59.0	68.0	62.8	15.6	22.2	18.5	15.0	20.0	17.1
6/16/2000	67.0	85.0	75.2	66.0	73.0	69.6	19.4	29.4	24.0	18.9	22.8	20.9
6/17/2000	68.0	82.0	74.1	61.0	73.0	69.3	20.0	27.8	23.4	16.1	22.8	20.7
6/18/2000	63.0	74.0	65.7	61.0	68.0	62.9	17.2	23.3	18.7	16.1	20.0	17.2
6/19/2000	54.0	75.0	61.4	50.0	61.0	53.0	12.2	23.9	16.3	10.0	16.1	11.7
6/20/2000	53.0	82.0	64.1	51.0	61.0	55.7	11.7	27.8	17.8	10.6	16.1	13.2
6/21/2000	67.0	82.0	72.7	57.0	72.0	65.0	19.4	27.8	22.6	13.9	22.2	18.3
6/22/2000	66.0	83.0	71.4	56.0	70.0	65.9	18.9	28.3	21.9	13.3	21.1	18.8
6/23/2000	60.0	80.0	71.5	56.0	61.0	58.8	15.6	26.7	21.9	13.3	16.1	14.9
6/24/2000	59.0	83.0	70.1	57.0	68.0	61.7	15.0	28.3	21.2	13.9	20.0	16.5

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
6/25/2000	77.0	80.0	78.2	67.0	68.0	67.8	25.0	26.7	25.7	19.4	20.0	19.9
6/26/2000	71.0	81.0	75.4	69.0	74.0	71.1	21.7	27.2	24.1	20.6	23.3	21.7
6/27/2000	69.0	79.0	72.8	64.0	73.0	69.0	20.6	26.1	22.7	17.8	22.8	20.6
6/28/2000	59.0	79.0	68.8	53.0	68.0	60.8	15.0	26.1	20.4	11.7	20.0	16.0
6/29/2000	59.0	77.0	66.3	54.0	62.0	59.1	15.0	25.0	19.1	12.2	16.7	15.1
6/30/2000	56.0	78.0	67.7	48.0	57.0	54.4	13.3	25.6	19.8	8.9	13.9	12.4
7/1/2000	53.0	80.0	67.2	51.0	58.0	54.7	11.7	26.7	19.6	10.6	14.4	12.6
7/2/2000	57.0	83.0	67.8	55.0	61.0	57.4	13.9	28.3	19.9	12.8	16.1	14.1
7/3/2000	60.0	77.0	68.8	57.0	70.0	63.4	15.6	25.0	20.4	13.9	21.1	17.4
7/4/2000	68.0	84.0	72.1	67.0	70.0	68.5	20.0	28.9	22.3	19.4	21.1	20.3
7/5/2000	61.0	83.0	73.8	52.0	69.0	59.5	16.1	28.3	23.2	11.1	20.6	15.3
7/6/2000	52.0	78.0	66.6	48.0	57.0	51.6	11.1	25.6	19.2	8.9	13.9	10.9
7/7/2000	53.0	74.0	66.8	44.0	57.0	49.8	11.7	23.3	19.3	6.7	13.9	9.9
7/8/2000	49.0	79.0	63.6	44.0	54.0	48.5	9.4	26.1	17.6	6.7	12.2	9.2
7/9/2000	53.0	81.0	66.6	51.0	70.0	57.2	11.7	27.2	19.2	10.6	21.1	14.0
7/10/2000	67.0	88.0	74.3	59.0	71.0	67.5	19.4	31.1	23.5	15.0	21.7	19.7
7/11/2000	58.0	82.0	72.4	49.0	64.0	56.3	14.4	27.8	22.4	9.4	17.8	13.5
7/12/2000	52.0	83.0	67.5	49.0	61.0	51.8	11.1	28.3	19.7	9.4	16.1	11.0
7/13/2000	56.0	78.0	67.3	54.0	64.0	57.0	13.3	25.6	19.6	12.2	17.8	13.9
7/14/2000	61.0	80.0	68.7	57.0	66.0	61.3	16.1	26.7	20.4	13.9	18.9	16.3
7/15/2000	64.0	72.0	65.5	62.0	65.0	63.4	17.8	22.2	18.6	16.7	18.3	17.4
7/16/2000	64.0	78.0	67.3	61.0	65.0	63.2	17.8	25.6	19.6	16.1	18.3	17.3
7/17/2000	63.0	80.0	68.7	62.0	65.0	63.1	17.2	26.7	20.4	16.7	18.3	17.3
7/18/2000	60.0	84.0	70.5	54.0	66.0	61.3	15.6	28.9	21.4	12.2	18.9	16.3
7/19/2000	57.0	77.0	63.0	52.0	58.0	55.6	13.9	25.0	17.2	11.1	14.4	13.1
7/20/2000	60.0	79.0	66.9	46.0	59.0	55.0	15.6	26.1	19.4	7.8	15.0	12.8
7/21/2000	53.0	78.0	63.1	51.0	65.0	56.8	11.7	25.6	17.3	10.6	18.3	13.8
7/22/2000	58.0	76.0	64.5	51.0	64.0	58.0	14.4	24.4	18.1	10.6	17.8	14.4
7/23/2000	51.0	76.0	64.0	32.0	61.0	52.7	10.6	24.4	17.8	0.0	16.1	11.5
7/24/2000	56.0	74.0	64.7	55.0	61.0	57.9	13.3	23.3	18.2	12.8	16.1	14.4
7/25/2000	61.0	80.0	69.6	56.0	62.0	60.2	16.1	26.7	20.9	13.3	16.7	15.7
7/26/2000	61.0	75.0	68.6	58.0	65.0	61.7	16.1	23.9	20.3	14.4	18.3	16.5
7/27/2000	64.0	80.0	70.7	63.0	67.0	64.9	17.8	26.7	21.5	17.2	19.4	18.3
7/28/2000	63.0	83.0	69.4	62.0	68.0	65.0	17.2	28.3	20.8	16.7	20.0	18.3
7/29/2000	66.0	77.0	70.1	64.0	67.0	65.1	18.9	25.0	21.2	17.8	19.4	18.4
7/30/2000	68.0	81.0	73.6	66.0	73.0	70.1	20.0	27.2	23.1	18.9	22.8	21.2
7/31/2000	70.0	86.0	74.2	69.0	74.0	71.4	21.1	30.0	23.4	20.6	23.3	21.9
8/1/2000	72.0	86.0	76.1	68.0	73.0	71.8	22.2	30.0	24.5	20.0	22.8	22.1
8/2/2000	67.0	84.0	72.6	66.0	72.0	68.7	19.4	28.9	22.6	18.9	22.2	20.4
8/3/2000	68.0	81.0	71.7	66.0	72.0	68.7	20.0	27.2	22.1	18.9	22.2	20.4
8/4/2000	64.0	77.0	70.9	53.0	70.0	61.6	17.8	25.0	21.6	11.7	21.1	16.4
8/5/2000	54.0	79.0	66.3	52.0	63.0	55.4	12.2	26.1	19.1	11.1	17.2	13.0
8/6/2000	55.0	70.0	62.6	54.0	67.0	60.1	12.8	21.1	17.0	12.2	19.4	15.6
8/7/2000	66.0	85.0	71.5	66.0	72.0	68.6	18.9	29.4	21.9	18.9	22.2	20.3

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
8/8/2000	65.0	86.0	72.3	65.0	73.0	68.3	18.3	30.0	22.4	18.3	22.8	20.2
8/9/2000	71.0	88.0	78.3	67.0	72.0	69.6	21.7	31.1	25.7	19.4	22.2	20.9
8/10/2000	65.0	83.0	74.8	62.0	72.0	65.3	18.3	28.3	23.8	16.7	22.2	18.5
8/11/2000	66.0	81.0	70.9	61.0	68.0	64.9	18.9	27.2	21.6	16.1	20.0	18.3
8/12/2000	61.0	73.0	65.7	56.0	64.0	60.0	16.1	22.8	18.7	13.3	17.8	15.6
8/13/2000	61.0	76.0	67.1	58.0	64.0	60.6	16.1	24.4	19.5	14.4	17.8	15.9
8/14/2000	60.0	79.0	67.9	58.0	64.0	61.3	15.6	26.1	19.9	14.4	17.8	16.3
8/15/2000	59.0	85.0	70.6	57.0	69.0	62.9	15.0	29.4	21.4	13.9	20.6	17.2
8/16/2000	70.0	80.0	74.1	51.0	70.0	60.1	21.1	26.7	23.4	10.6	21.1	15.6
8/17/2000	61.0	72.0	65.4	48.0	56.0	51.8	16.1	22.2	18.6	8.9	13.3	11.0
8/18/2000	57.0	66.0	61.1	54.0	61.0	56.8	13.9	18.9	16.2	12.2	16.1	13.8
8/19/2000	56.0	77.0	63.1	48.0	60.0	54.5	13.3	25.0	17.3	8.9	15.6	12.5
8/20/2000	50.0	73.0	61.7	43.0	55.0	48.8	10.0	22.8	16.5	6.1	12.8	9.3
8/21/2000	45.0	73.0	58.8	43.0	54.0	48.2	7.2	22.8	14.9	6.1	12.2	9.0
8/22/2000	51.0	78.0	62.1	49.0	61.0	54.1	10.6	25.6	16.7	9.4	16.1	12.3
8/23/2000	64.0	74.0	67.6	59.0	69.0	63.1	17.8	23.3	19.8	15.0	20.6	17.3
8/24/2000	66.0	82.0	69.1	54.0	68.0	64.4	18.9	27.8	20.6	12.2	20.0	18.0
8/25/2000	55.0	81.0	65.3	49.0	61.0	55.4	12.8	27.2	18.5	9.4	16.1	13.0
8/26/2000	55.0	80.0	64.2	54.0	66.0	58.1	12.8	26.7	17.9	12.2	18.9	14.5
8/27/2000	61.0	78.0	67.1	57.0	71.0	63.2	16.1	25.6	19.5	13.9	21.7	17.3
8/28/2000	63.0	82.0	70.3	62.0	69.0	65.4	17.2	27.8	21.3	16.7	20.6	18.6
8/29/2000	64.0	79.0	70.3	63.0	66.0	64.8	17.8	26.1	21.3	17.2	18.9	18.2
8/30/2000	68.0	81.0	72.9	63.0	70.0	64.8	20.0	27.2	22.7	17.2	21.1	18.2
8/31/2000	67.0	83.0	73.0	66.0	73.0	67.4	19.4	28.3	22.8	18.9	22.8	19.7
9/1/2000	72.0	81.0	75.0	70.0	74.0	71.2	22.2	27.2	23.9	21.1	23.3	21.8
9/2/2000	71.0	85.0	74.8	66.0	73.0	71.1	21.7	29.4	23.8	18.9	22.8	21.7
9/3/2000	67.0	84.0	73.0	66.0	73.0	68.7	19.4	28.9	22.8	18.9	22.8	20.4
9/4/2000	63.0	83.0	73.5	52.0	72.0	67.0	17.2	28.3	23.1	11.1	22.2	19.4
9/5/2000	45.0	69.0	58.1	36.0	52.0	40.7	7.2	20.6	14.5	2.2	11.1	4.8
9/6/2000	42.0	70.0	53.2	41.0	52.0	44.5	5.6	21.1	11.8	5.0	11.1	6.9
9/7/2000	45.0	72.0	54.3	44.0	52.0	47.9	7.2	22.2	12.4	6.7	11.1	8.8
9/8/2000	48.0	78.0	59.0	46.0	64.0	52.3	8.9	25.6	15.0	7.8	17.8	11.3
9/9/2000	60.0	85.0	67.9	59.0	68.0	62.3	15.6	29.4	19.9	15.0	20.0	16.8
9/10/2000	66.0	84.0	72.0	64.0	70.0	68.1	18.9	28.9	22.2	17.8	21.1	20.1
9/11/2000	66.0	78.0	71.6	61.0	68.0	65.4	18.9	25.6	22.0	16.1	20.0	18.6
9/12/2000	70.0	80.0	73.5	64.0	70.0	67.2	21.1	26.7	23.1	17.8	21.1	19.6
9/13/2000	61.0	77.0	69.1	44.0	70.0	60.9	16.1	25.0	20.6	6.7	21.1	16.1
9/14/2000	49.0	75.0	58.4	32.0	53.0	46.2	9.4	23.9	14.7	0.0	11.7	7.9
9/15/2000	57.0	70.0	63.2	35.0	63.0	51.8	13.9	21.1	17.3	1.7	17.2	11.0
9/16/2000	48.0	63.0	55.8	36.0	49.0	45.1	8.9	17.2	13.2	2.2	9.4	7.3
9/17/2000	40.0	72.0	53.3	27.0	44.0	36.6	4.4	22.2	11.8	-2.8	6.7	2.6
9/18/2000	46.0	74.0	58.2	26.0	57.0	47.0	7.8	23.3	14.6	-3.3	13.9	8.3
9/19/2000	57.0	69.0	62.8	54.0	61.0	57.2	13.9	20.6	17.1	12.2	16.1	14.0
9/20/2000	55.0	82.0	62.7	55.0	64.0	58.3	12.8	27.8	17.1	12.8	17.8	14.6

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
9/21/2000	61.0	77.0	68.5	45.0	62.0	52.6	16.1	25.0	20.3	7.2	16.7	11.4
9/22/2000	45.0	67.0	55.3	43.0	47.0	44.9	7.2	19.4	12.9	6.1	8.3	7.2
9/23/2000	50.0	66.0	59.6	47.0	63.0	54.2	10.0	18.9	15.3	8.3	17.2	12.3
9/24/2000	55.0	65.0	62.3	50.0	64.0	60.1	12.8	18.3	16.8	10.0	17.8	15.6
9/25/2000	45.0	56.0	50.6	41.0	50.0	45.2	7.2	13.3	10.3	5.0	10.0	7.3
9/26/2000	46.0	55.0	49.7	43.0	50.0	46.0	7.8	12.8	9.8	6.1	10.0	7.8
9/27/2000	44.0	69.0	50.6	43.0	52.0	45.9	6.7	20.6	10.3	6.1	11.1	7.7
9/28/2000	46.0	59.0	51.0	36.0	51.0	44.0	7.8	15.0	10.6	2.2	10.6	6.7
9/29/2000	33.0	60.0	43.0	29.0	43.0	33.8	0.6	15.6	6.1	-1.7	6.1	1.0
9/30/2000	35.0	66.0	43.8	33.0	51.0	39.0	1.7	18.9	6.6	0.6	10.6	3.9
10/1/2000	42.0	70.0	51.2	42.0	54.0	46.2	5.6	21.1	10.7	5.6	12.2	7.9
10/2/2000	47.0	71.0	54.7	46.0	57.0	51.0	8.3	21.7	12.6	7.8	13.9	10.6
10/3/2000	54.0	81.0	59.4	49.0	61.0	54.8	12.2	27.2	15.2	9.4	16.1	12.7
10/4/2000	47.0	66.0	56.2	46.0	59.0	51.5	8.3	18.9	13.4	7.8	15.0	10.8
10/5/2000	54.0	63.0	55.4	51.0	55.0	52.8	12.2	17.2	13.0	10.6	12.8	11.6
10/6/2000	56.0	65.0	60.0	45.0	61.0	56.3	13.3	18.3	15.6	7.2	16.1	13.5
10/7/2000	43.0	60.0	48.4	34.0	47.0	40.6	6.1	15.6	9.1	1.1	8.3	4.8
10/8/2000	35.0	50.0	40.7	26.0	36.0	32.7	1.7	10.0	4.8	-3.3	2.2	0.4
10/9/2000	30.0	48.0	38.8	25.0	34.0	29.9	-1.1	8.9	3.8	-3.9	1.1	-1.2
10/10/2000	37.0	54.0	42.7	28.0	39.0	33.4	2.8	12.2	5.9	-2.2	3.9	0.8
10/11/2000	34.0	68.0	47.4	32.0	43.0	37.1	1.1	20.0	8.6	0.0	6.1	2.8
10/12/2000	36.0	73.0	50.9	34.0	43.0	39.0	2.2	22.8	10.5	1.1	6.1	3.9
10/13/2000	35.0	75.0	51.5	34.0	45.0	38.8	1.7	23.9	10.8	1.1	7.2	3.8
10/14/2000	39.0	78.0	55.4	38.0	48.0	42.8	3.9	25.6	13.0	3.3	8.9	6.0
10/15/2000	46.0	72.0	56.8	43.0	55.0	47.2	7.8	22.2	13.8	6.1	12.8	8.4
10/16/2000	55.0	67.0	59.3	53.0	54.0	53.7	12.8	19.4	15.2	11.7	12.2	12.1
10/17/2000	53.0	59.0	55.6	51.0	54.0	52.5	11.7	15.0	13.1	10.6	12.2	11.4
10/18/2000	53.0	65.0	57.3	48.0	57.0	53.5	11.7	18.3	14.1	8.9	13.9	11.9
10/19/2000	44.0	65.0	52.4	33.0	51.0	41.6	6.7	18.3	11.3	0.6	10.6	5.3
10/20/2000	34.0	68.0	46.9	34.0	49.0	39.0	1.1	20.0	8.3	1.1	9.4	3.9
10/21/2000	43.0	76.0	51.6	41.0	52.0	46.0	6.1	24.4	10.9	5.0	11.1	7.8
10/22/2000	40.0	65.0	53.7	23.0	51.0	35.5	4.4	18.3	12.1	-5.0	10.6	1.9
10/23/2000	31.0	61.0	44.6	29.0	34.0	31.5	-0.6	16.1	7.0	-1.7	1.1	-0.3
10/24/2000	43.0	53.0	47.7	31.0	47.0	37.6	6.1	11.7	8.7	-0.6	8.3	3.1
10/25/2000	48.0	71.0	54.6	46.0	56.0	49.9	8.9	21.7	12.6	7.8	13.3	9.9
10/26/2000	46.0	70.0	54.4	46.0	56.0	49.9	7.8	21.1	12.4	7.8	13.3	9.9
10/27/2000	45.0	70.0	55.6	43.0	55.0	48.3	7.2	21.1	13.1	6.1	12.8	9.1
10/28/2000	43.0	58.0	52.1	22.0	57.0	44.0	6.1	14.4	11.2	-5.6	13.9	6.7
10/29/2000	35.0	53.0	42.4	11.0	25.0	20.9	1.7	11.7	5.8	-11.7	-3.9	-6.2
10/30/2000	36.0	55.0	44.1	18.0	29.0	25.2	2.2	12.8	6.7	-7.8	-1.7	-3.8
10/31/2000	36.0	58.0	44.9	25.0	31.0	28.0	2.2	14.4	7.2	-3.9	-0.6	-2.2
11/1/2000	34.0	60.0	45.5	28.0	36.0	31.7	1.1	15.6	7.5	-2.2	2.2	-0.2
11/2/2000	34.0	66.0	47.2	32.0	37.0	33.8	1.1	18.9	8.4	0.0	2.8	1.0
11/3/2000	35.0	58.0	45.0	31.0	43.0	34.6	1.7	14.4	7.2	-0.6	6.1	1.4

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
11/4/2000	37.0	58.0	46.9	35.0	44.0	38.9	2.8	14.4	8.3	1.7	6.7	3.8
11/5/2000	36.0	49.0	44.1	26.0	38.0	32.2	2.2	9.4	6.7	-3.3	3.3	0.1
11/6/2000	28.0	54.0	38.9	26.0	31.0	27.8	-2.2	12.2	3.8	-3.3	-0.6	-2.3
11/7/2000	28.0	56.0	38.3	25.0	37.0	30.0	-2.2	13.3	3.5	-3.9	2.8	-1.1
11/8/2000	41.0	62.0	49.1	35.0	47.0	38.2	5.0	16.7	9.5	1.7	8.3	3.4
11/9/2000	51.0	58.0	54.5	46.0	55.0	51.4	10.6	14.4	12.5	7.8	12.8	10.8
11/10/2000	48.0	57.0	53.5	45.0	56.0	50.9	8.9	13.9	11.9	7.2	13.3	10.5
11/11/2000	45.0	50.0	47.8	36.0	47.0	41.0	7.2	10.0	8.8	2.2	8.3	5.0
11/12/2000	41.0	45.0	43.3	35.0	38.0	36.0	5.0	7.2	6.3	1.7	3.3	2.2
11/13/2000	39.0	48.0	41.5	35.0	41.0	37.7	3.9	8.9	5.3	1.7	5.0	3.2
11/14/2000	37.0	52.0	47.2	22.0	45.0	40.0	2.8	11.1	8.4	-5.6	7.2	4.4
11/15/2000	33.0	40.0	37.2	24.0	29.0	27.4	0.6	4.4	2.9	-4.4	-1.7	-2.6
11/16/2000	26.0	43.0	35.4	23.0	28.0	25.9	-3.3	6.1	1.9	-5.0	-2.2	-3.4
11/17/2000	31.0	43.0	38.9	27.0	30.0	28.6	-0.6	6.1	3.8	-2.8	-1.1	-1.9
11/18/2000	33.0	39.0	36.4	21.0	32.0	27.9	0.6	3.9	2.4	-6.1	0.0	-2.3
11/19/2000	25.0	39.0	33.1	17.0	23.0	19.8	-3.9	3.9	0.6	-8.3	-5.0	-6.8
11/20/2000	21.0	36.0	28.7	15.0	31.0	23.8	-6.1	2.2	-1.8	-9.4	-0.6	-4.6
11/21/2000	28.0	34.0	31.3	15.0	21.0	18.8	-2.2	1.1	-0.4	-9.4	-6.1	-7.3
11/22/2000	23.0	29.0	25.8	12.0	25.0	16.6	-5.0	-1.7	-3.4	-11.1	-3.9	-8.6
11/23/2000	19.0	31.0	24.6	5.0	21.0	10.8	-7.2	-0.6	-4.1	-15.0	-6.1	-11.8
11/24/2000	17.0	36.0	24.1	9.0	16.0	11.4	-8.3	2.2	-4.4	-12.8	-8.9	-11.4
11/25/2000	22.0	38.0	29.1	14.0	20.0	16.8	-5.6	3.3	-1.6	-10.0	-6.7	-8.4
11/26/2000	34.0	49.0	44.4	20.0	48.0	42.3	1.1	9.4	6.9	-6.7	8.9	5.7
11/27/2000	42.0	47.0	43.9	37.0	43.0	40.2	5.6	8.3	6.6	2.8	6.1	4.6
11/28/2000	39.0	45.0	43.3	30.0	38.0	35.3	3.9	7.2	6.3	-1.1	3.3	1.8
11/29/2000	36.0	45.0	39.5	28.0	36.0	31.4	2.2	7.2	4.2	-2.2	2.2	-0.3
11/30/2000	37.0	40.0	37.6	22.0	36.0	32.3	2.8	4.4	3.1	-5.6	2.2	0.2
12/1/2000	30.0	39.0	34.0	18.0	26.0	22.1	-1.1	3.9	1.1	-7.8	-3.3	-5.5
12/2/2000	19.0	33.0	26.8	10.0	18.0	15.0	-7.2	0.6	-2.9	-12.2	-7.8	-9.4
12/3/2000	15.0	34.0	22.1	10.0	21.0	14.3	-9.4	1.1	-5.5	-12.2	-6.1	-9.8
12/4/2000	12.0	35.0	22.0	9.0	21.0	15.0	-11.1	1.7	-5.6	-12.8	-6.1	-9.4
12/5/2000	23.0	41.0	30.3	10.0	30.0	21.5	-5.0	5.0	-0.9	-12.2	-1.1	-5.8
12/6/2000	22.0	29.0	24.5	7.0	14.0	9.0	-5.6	-1.7	-4.2	-13.9	-10.0	-12.8
12/7/2000	19.0	30.0	24.1	8.0	16.0	12.6	-7.2	-1.1	-4.4	-13.3	-8.9	-10.8
12/8/2000	24.0	30.0	26.3	12.0	27.0	21.4	-4.4	-1.1	-3.2	-11.1	-2.8	-5.9
12/9/2000	15.0	31.0	26.1	12.0	27.0	19.2	-9.4	-0.6	-3.3	-11.1	-2.8	-7.1
12/10/2000	12.0	34.0	22.0	9.0	27.0	16.4	-11.1	1.1	-5.6	-12.8	-2.8	-8.7
12/11/2000	31.0	37.0	33.8	27.0	32.0	29.2	-0.6	2.8	1.0	-2.8	0.0	-1.6
12/12/2000	27.0	44.0	36.7	7.0	37.0	26.1	-2.8	6.7	2.6	-13.9	2.8	-3.3
12/13/2000	12.0	27.0	21.1	7.0	16.0	10.1	-11.1	-2.8	-6.1	-13.9	-8.9	-12.2
12/14/2000	25.0	36.0	29.3	6.0	32.0	24.7	-3.9	2.2	-1.5	-14.4	0.0	-4.1
12/15/2000	26.0	36.0	32.1	17.0	30.0	21.3	-3.3	2.2	0.1	-8.3	-1.1	-5.9
12/16/2000	26.0	39.0	34.1	19.0	32.0	27.9	-3.3	3.9	1.2	-7.2	0.0	-2.3
12/17/2000	32.0	51.0	42.9	18.0	49.0	38.3	0.0	10.6	6.1	-7.8	9.4	3.5

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
12/18/2000	19.0	32.0	23.3	7.0	18.0	11.5	-7.2	0.0	-4.8	-13.9	-7.8	-11.4
12/19/2000	17.0	27.0	23.1	9.0	25.0	18.1	-8.3	-2.8	-4.9	-12.8	-3.9	-7.7
12/20/2000	16.0	27.0	22.3	6.0	25.0	15.8	-8.9	-2.8	-5.4	-14.4	-3.9	-9.0
12/21/2000	10.0	27.0	16.6	7.0	14.0	10.6	-12.2	-2.8	-8.6	-13.9	-10.0	-11.9
12/22/2000	10.0	27.0	21.7	-5.0	21.0	12.9	-12.2	-2.8	-5.7	-20.6	-6.1	-10.6
12/23/2000	7.0	24.0	12.0	-6.0	10.0	1.5	-13.9	-4.4	-11.1	-21.1	-12.2	-16.9
12/24/2000	12.0	29.0	19.3	6.0	15.0	10.1	-11.1	-1.7	-7.1	-14.4	-9.4	-12.2
12/25/2000	13.0	25.0	17.8	-2.0	11.0	2.9	-10.6	-3.9	-7.9	-18.9	-11.7	-16.2
12/26/2000	12.0	25.0	18.2	-2.0	10.0	6.0	-11.1	-3.9	-7.7	-18.9	-12.2	-14.4
12/27/2000	16.0	28.0	21.2	1.0	16.0	10.7	-8.9	-2.2	-6.0	-17.2	-8.9	-11.8
12/28/2000	13.0	25.0	20.1	0.0	18.0	8.9	-10.6	-3.9	-6.6	-17.8	-7.8	-12.8
12/29/2000	9.0	23.0	16.0	3.0	13.0	7.9	-12.8	-5.0	-8.9	-16.1	-10.6	-13.4
12/30/2000	14.0	29.0	21.9	9.0	18.0	14.0	-10.0	-1.7	-5.6	-12.8	-7.8	-10.0
12/31/2000	21.0	29.0	21.9	9.0	19.0	14.0	-6.1	-1.7	-5.6	-12.8	-7.2	-10.0
1/1/2001	17.0	33.0	26.0	9.0	15.0	12.7	-8.3	0.6	-3.3	-12.8	-9.4	-10.7
1/2/2001	15.0	28.0	21.3	4.0	12.0	9.0	-9.4	-2.2	-5.9	-15.6	-11.1	-12.8
1/3/2001	12.0	29.0	22.0	6.0	14.0	10.5	-11.1	-1.7	-5.6	-14.4	-10.0	-11.9
1/4/2001	26.0	33.0	28.0	9.0	19.0	16.1	-3.3	0.6	-2.2	-12.8	-7.2	-8.8
1/5/2001	16.0	28.0	24.0	11.0	25.0	18.5	-8.9	-2.2	-4.4	-11.7	-3.9	-7.5
1/6/2001	21.0	34.0	28.0	17.0	25.0	22.5	-6.1	1.1	-2.2	-8.3	-3.9	-5.3
1/7/2001	21.0	35.0	27.8	18.0	27.0	21.9	-6.1	1.7	-2.3	-7.8	-2.8	-5.6
1/8/2001	25.0	34.0	30.1	23.0	32.0	27.1	-3.9	1.1	-1.1	-5.0	0.0	-2.7
1/9/2001	19.0	34.0	26.8	8.0	25.0	14.5	-7.2	1.1	-2.9	-13.3	-3.9	-9.7
1/10/2001	22.0	34.0	27.8	7.0	21.0	16.4	-5.6	1.1	-2.3	-13.9	-6.1	-8.7
1/11/2001	25.0	43.0	34.4	17.0	25.0	20.0	-3.9	6.1	1.3	-8.3	-3.9	-6.7
1/12/2001	18.0	38.0	26.5	16.0	25.0	20.9	-7.8	3.3	-3.1	-8.9	-3.9	-6.2
1/13/2001	18.0	37.0	24.9	16.0	23.0	19.6	-7.8	2.8	-3.9	-8.9	-5.0	-6.9
1/14/2001	19.0	37.0	25.5	17.0	27.0	21.1	-7.2	2.8	-3.6	-8.3	-2.8	-6.1
1/15/2001	32.0	37.0	34.7	25.0	32.0	29.7	0.0	2.8	1.5	-3.9	0.0	-1.3
1/16/2001	33.0	40.0	35.9	28.0	34.0	31.6	0.6	4.4	2.2	-2.2	1.1	-0.2
1/17/2001	35.0	37.0	35.9	24.0	29.0	26.6	1.7	2.8	2.2	-4.4	-1.7	-3.0
1/18/2001	30.0	36.0	32.7	22.0	29.0	25.6	-1.1	2.2	0.4	-5.6	-1.7	-3.6
1/19/2001	32.0	34.0	33.5	28.0	34.0	31.9	0.0	1.1	0.8	-2.2	1.1	-0.1
1/20/2001	27.0	36.0	31.3	19.0	34.0	24.4	-2.8	2.2	-0.4	-7.2	1.1	-4.2
1/21/2001	19.0	30.0	22.1	6.0	21.0	14.9	-7.2	-1.1	-5.5	-14.4	-6.1	-9.5
1/22/2001	11.0	31.0	21.3	8.0	17.0	12.2	-11.7	-0.6	-5.9	-13.3	-8.3	-11.0
1/23/2001	7.0	28.0	14.4	3.0	18.0	10.6	-13.9	-2.2	-9.8	-16.1	-7.8	-11.9
1/24/2001	16.0	40.0	24.5	14.0	25.0	18.9	-8.9	4.4	-4.2	-10.0	-3.9	-7.3
1/25/2001	27.0	36.0	30.9	7.0	24.0	17.2	-2.8	2.2	-0.6	-13.9	-4.4	-8.2
1/26/2001	12.0	30.0	20.5	4.0	16.0	10.9	-11.1	-1.1	-6.4	-15.6	-8.9	-11.7
1/27/2001	27.0	36.0	29.6	14.0	29.0	22.3	-2.8	2.2	-1.3	-10.0	-1.7	-5.4
1/28/2001	22.0	32.0	28.3	12.0	24.0	15.5	-5.6	0.0	-2.1	-11.1	-4.4	-9.2
1/29/2001	14.0	33.0	23.5	11.0	20.0	15.4	-10.0	0.6	-4.7	-11.7	-6.7	-9.2
1/30/2001	30.0	37.0	34.2	18.0	32.0	28.1	-1.1	2.8	1.2	-7.8	0.0	-2.2

Date	Min T (^oF)	Max T (^oF)	Aver T (^oF)	Min T_d (^oF)	Max T_d (^oF)	Aver T_d (^oF)	Min T (^oC)	Max T (^oC)	Aver T (^oC)	Min T_d (^oC)	Max T_d (^oC)	Aver T_d (^oC)
1/31/2001	33.0	40.0	35.2	30.0	36.0	32.4	0.6	4.4	1.8	-1.1	2.2	0.2
2/1/2001	34.0	41.0	37.8	28.0	32.0	30.5	1.1	5.0	3.2	-2.2	0.0	-0.8
2/2/2001	28.0	40.0	36.3	9.0	30.0	25.9	-2.2	4.4	2.4	-12.8	-1.1	-3.4
2/3/2001	19.0	29.0	24.5	6.0	15.0	10.3	-7.2	-1.7	-4.2	-14.4	-9.4	-12.1
2/4/2001	19.0	37.0	27.6	10.0	19.0	14.6	-7.2	2.8	-2.4	-12.2	-7.2	-9.7
2/5/2001	30.0	36.0	32.0	18.0	31.0	27.0	-1.1	2.2	0.0	-7.8	-0.6	-2.8
2/6/2001	33.0	41.0	36.8	25.0	34.0	29.8	0.6	5.0	2.7	-3.9	1.1	-1.2
2/7/2001	34.0	42.0	36.8	20.0	34.0	27.0	1.1	5.6	2.7	-6.7	1.1	-2.8
2/8/2001	25.0	41.0	32.2	20.0	27.0	23.0	-3.9	5.0	0.1	-6.7	-2.8	-5.0
2/9/2001	36.0	49.0	40.9	27.0	39.0	33.3	2.2	9.4	4.9	-2.8	3.9	0.7
2/10/2001	28.0	58.0	43.4	7.0	45.0	26.1	-2.2	14.4	6.3	-13.9	7.2	-3.3
2/11/2001	21.0	31.0	25.0	3.0	8.0	4.3	-6.1	-0.6	-3.9	-16.1	-13.3	-15.4
2/12/2001	15.0	35.0	23.1	0.0	12.0	4.6	-9.4	1.7	-4.9	-17.8	-11.1	-15.2
2/13/2001	32.0	49.0	37.0	12.0	28.0	23.5	0.0	9.4	2.8	-11.1	-2.2	-4.7
2/14/2001	29.0	45.0	39.7	25.0	43.0	35.0	-1.7	7.2	4.3	-3.9	6.1	1.7
2/15/2001	36.0	45.0	39.9	23.0	43.0	34.9	2.2	7.2	4.4	-5.0	6.1	1.6
2/16/2001	29.0	37.0	33.9	25.0	36.0	31.1	-1.7	2.8	1.1	-3.9	2.2	-0.5
2/17/2001	21.0	36.0	32.0	1.0	36.0	23.3	-6.1	2.2	0.0	-17.2	2.2	-4.8
2/18/2001	17.0	32.0	22.6	0.0	10.0	4.6	-8.3	0.0	-5.2	-17.8	-12.2	-15.2
2/19/2001	14.0	41.0	26.1	6.0	16.0	10.8	-10.0	5.0	-3.3	-14.4	-8.9	-11.8
2/20/2001	30.0	57.0	41.0	15.0	32.0	24.8	-1.1	13.9	5.0	-9.4	0.0	-4.0
2/21/2001	23.0	50.0	35.9	-2.0	38.0	17.2	-5.0	10.0	2.2	-18.9	3.3	-8.2
2/22/2001	12.0	23.0	17.8	0.0	16.0	9.1	-11.1	-5.0	-7.9	-17.8	-8.9	-12.7
2/23/2001	18.0	37.0	22.8	13.0	22.0	16.3	-7.8	2.8	-5.1	-10.6	-5.6	-8.7
2/24/2001	19.0	32.0	26.4	9.0	18.0	12.6	-7.2	0.0	-3.1	-12.8	-7.8	-10.8
2/25/2001	30.0	43.0	34.6	14.0	32.0	26.3	-1.1	6.1	1.4	-10.0	0.0	-3.2
2/26/2001	36.0	45.0	39.9	21.0	38.0	28.4	2.2	7.2	4.4	-6.1	3.3	-2.0
2/27/2001	22.0	47.0	32.5	19.0	27.0	22.5	-5.6	8.3	0.3	-7.2	-2.8	-5.3
2/28/2001	23.0	40.0	31.3	2.0	20.0	9.1	-5.0	4.4	-0.4	-16.7	-6.7	-12.7
3/1/2001	21.0	37.0	29.1	2.0	13.0	8.8	-6.1	2.8	-1.6	-16.7	-10.6	-12.9
3/2/2001	28.0	39.0	32.1	14.0	32.0	27.7	-2.2	3.9	0.1	-10.0	0.0	-2.4
3/3/2001	33.0	45.0	37.5	24.0	35.0	31.6	0.6	7.2	3.1	-4.4	1.7	-0.2
3/4/2001	27.0	37.0	31.9	23.0	32.0	28.1	-2.8	2.8	-0.1	-5.0	0.0	-2.2
3/5/2001	27.0	32.0	28.4	20.0	30.0	26.2	-2.8	0.0	-2.0	-6.7	-1.1	-3.2
3/6/2001	19.0	36.0	24.5	8.0	25.0	16.9	-7.2	2.2	-4.2	-13.3	-3.9	-8.4
3/7/2001	30.0	43.0	35.6	20.0	25.0	22.2	-1.1	6.1	2.0	-6.7	-3.9	-5.4
3/8/2001	30.0	41.0	35.3	19.0	27.0	23.2	-1.1	5.0	1.8	-7.2	-2.8	-4.9
3/9/2001	30.0	40.0	34.1	24.0	32.0	29.0	-1.1	4.4	1.2	-4.4	0.0	-1.7
3/10/2001	28.0	42.0	33.0	18.0	27.0	20.4	-2.2	5.6	0.6	-7.8	-2.8	-6.4
3/11/2001	22.0	44.0	32.1	18.0	31.0	22.2	-5.6	6.7	0.1	-7.8	-0.6	-5.4
3/12/2001	21.0	48.0	33.9	14.0	21.0	17.1	-6.1	8.9	1.1	-10.0	-6.1	-8.3
3/13/2001	34.0	45.0	38.0	18.0	40.0	33.7	1.1	7.2	3.3	-7.8	4.4	0.9
3/14/2001	37.0	46.0	40.7	22.0	37.0	29.2	2.8	7.8	4.8	-5.6	2.8	-1.6
3/15/2001	25.0	46.0	34.6	23.0	32.0	26.5	-3.9	7.8	1.4	-5.0	0.0	-3.1

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
3/16/2001	27.0	44.0	36.2	25.0	39.0	31.2	-2.8	6.7	2.3	-3.9	3.9	-0.4
3/17/2001	37.0	43.0	39.7	32.0	41.0	38.0	2.8	6.1	4.3	0.0	5.0	3.3
3/18/2001	30.0	46.0	36.3	12.0	34.0	21.6	-1.1	7.8	2.4	-11.1	1.1	-5.8
3/19/2001	26.0	51.0	37.4	10.0	21.0	16.1	-3.3	10.6	3.0	-12.2	-6.1	-8.8
3/20/2001	24.0	53.0	37.4	11.0	24.0	19.3	-4.4	11.7	3.0	-11.7	-4.4	-7.1
3/21/2001	36.0	49.0	40.6	20.0	40.0	31.6	2.2	9.4	4.8	-6.7	4.4	-0.2
3/22/2001	37.0	43.0	39.8	29.0	36.0	33.1	2.8	6.1	4.3	-1.7	2.2	0.6
3/23/2001	35.0	55.0	44.1	14.0	31.0	23.6	1.7	12.8	6.7	-10.0	-0.6	-4.7
3/24/2001	29.0	49.0	40.1	10.0	34.0	23.6	-1.7	9.4	4.5	-12.2	1.1	-4.7
3/25/2001	27.0	37.0	31.3	10.0	19.0	13.7	-2.8	2.8	-0.4	-12.2	-7.2	-10.2
3/26/2001	23.0	33.0	27.9	2.0	22.0	15.3	-5.0	0.6	-2.3	-16.7	-5.6	-9.3
3/27/2001	16.0	38.0	27.0	0.0	15.0	9.4	-8.9	3.3	-2.8	-17.8	-9.4	-12.6
3/28/2001	24.0	48.0	34.1	14.0	20.0	17.3	-4.4	8.9	1.2	-10.0	-6.7	-8.2
3/29/2001	29.0	45.0	37.6	18.0	38.0	27.8	-1.7	7.2	3.1	-7.8	3.3	-2.3
3/30/2001	34.0	44.0	37.8	34.0	39.0	36.2	1.1	6.7	3.2	1.1	3.9	2.3
3/31/2001	36.0	45.0	39.7	30.0	34.0	31.7	2.2	7.2	4.3	-1.1	1.1	-0.2
4/1/2001	33.0	45.0	38.5	30.0	34.0	32.3	0.6	7.2	3.6	-1.1	1.1	0.2
4/2/2001	36.0	48.0	40.4	28.0	36.0	31.7	2.2	8.9	4.7	-2.2	2.2	-0.2
4/3/2001	25.0	50.0	37.2	24.0	37.0	30.1	-3.9	10.0	2.9	-4.4	2.8	-1.1
4/4/2001	30.0	57.0	38.4	21.0	37.0	30.8	-1.1	13.9	3.6	-6.1	2.8	-0.7
4/5/2001	27.0	63.0	45.7	19.0	29.0	23.9	-2.8	17.2	7.6	-7.2	-1.7	-4.5
4/6/2001	44.0	54.0	47.2	27.0	48.0	40.1	6.7	12.2	8.4	-2.8	8.9	4.5
4/7/2001	46.0	54.0	48.6	45.0	49.0	46.7	7.8	12.2	9.2	7.2	9.4	8.2
4/8/2001	42.0	55.0	46.6	39.0	47.0	43.0	5.6	12.8	8.1	3.9	8.3	6.1
4/9/2001	39.0	77.0	52.1	39.0	63.0	48.2	3.9	25.0	11.2	3.9	17.2	9.0
4/10/2001	45.0	63.0	53.0	37.0	62.0	43.2	7.2	17.2	11.7	2.8	16.7	6.2
4/11/2001	50.0	58.0	52.5	45.0	52.0	47.8	10.0	14.4	11.4	7.2	11.1	8.8
4/12/2001	48.0	61.0	52.1	48.0	57.0	50.6	8.9	16.1	11.2	8.9	13.9	10.3
4/13/2001	50.0	71.0	58.2	29.0	58.0	47.9	10.0	21.7	14.6	-1.7	14.4	8.8
4/14/2001	39.0	68.0	53.9	26.0	36.0	31.4	3.9	20.0	12.2	-3.3	2.2	-0.3
4/15/2001	39.0	64.0	53.3	34.0	40.0	36.6	3.9	17.8	11.8	1.1	4.4	2.6
4/16/2001	44.0	58.0	48.0	37.0	49.0	43.8	6.7	14.4	8.9	2.8	9.4	6.6
4/17/2001	38.0	49.0	41.3	28.0	39.0	34.5	3.3	9.4	5.2	-2.2	3.9	1.4
4/18/2001	34.0	45.0	40.0	14.0	33.0	20.3	1.1	7.2	4.4	-10.0	0.6	-6.5
4/19/2001	24.0	56.0	38.4	15.0	27.0	21.4	-4.4	13.3	3.6	-9.4	-2.8	-5.9
4/20/2001	31.0	57.0	43.7	23.0	47.0	31.0	-0.6	13.9	6.5	-5.0	8.3	-0.6
4/21/2001	46.0	64.0	49.8	46.0	54.0	47.2	7.8	17.8	9.9	7.8	12.2	8.4
4/22/2001	49.0	82.0	62.8	48.0	61.0	54.3	9.4	27.8	17.1	8.9	16.1	12.4
4/23/2001	53.0	86.0	70.6	50.0	63.0	57.4	11.7	30.0	21.4	10.0	17.2	14.1
4/24/2001	54.0	83.0	68.5	34.0	59.0	52.2	12.2	28.3	20.3	1.1	15.0	11.2
4/25/2001	41.0	59.0	48.8	25.0	33.0	28.4	5.0	15.0	9.3	-3.9	0.6	-2.0
4/26/2001	33.0	64.0	48.7	21.0	32.0	27.5	0.6	17.8	9.3	-6.1	0.0	-2.5
4/27/2001	37.0	73.0	54.0	21.0	46.0	35.5	2.8	22.8	12.2	-6.1	7.8	1.9
4/28/2001	42.0	67.0	53.3	16.0	43.0	25.8	5.6	19.4	11.8	-8.9	6.1	-3.4

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
4/29/2001	30.0	66.0	47.7	15.0	30.0	24.0	-1.1	18.9	8.7	-9.4	-1.1	-4.4
4/30/2001	35.0	78.0	55.0	28.0	38.0	32.5	1.7	25.6	12.8	-2.2	3.3	0.3
5/1/2001	45.0	85.0	63.9	36.0	47.0	41.9	7.2	29.4	17.7	2.2	8.3	5.5
5/2/2001	50.0	87.0	68.8	43.0	63.0	49.5	10.0	30.6	20.4	6.1	17.2	9.7
5/3/2001	54.0	91.0	70.9	53.0	61.0	55.2	12.2	32.8	21.6	11.7	16.1	12.9
5/4/2001	56.0	90.0	73.3	54.0	63.0	57.2	13.3	32.2	22.9	12.2	17.2	14.0
5/5/2001	56.0	80.0	64.9	21.0	67.0	46.4	13.3	26.7	18.3	-6.1	19.4	8.0
5/6/2001	39.0	70.0	55.5	22.0	37.0	33.2	3.9	21.1	13.1	-5.6	2.8	0.7
5/7/2001	44.0	69.0	57.6	27.0	38.0	34.5	6.7	20.6	14.2	-2.8	3.3	1.4
5/8/2001	48.0	68.0	57.1	32.0	50.0	44.1	8.9	20.0	13.9	0.0	10.0	6.7
5/9/2001	57.0	79.0	62.3	41.0	58.0	54.0	13.9	26.1	16.8	5.0	14.4	12.2
5/10/2001	48.0	82.0	65.7	45.0	52.0	48.3	8.9	27.8	18.7	7.2	11.1	9.1
5/11/2001	49.0	85.0	66.4	48.0	55.0	51.6	9.4	29.4	19.1	8.9	12.8	10.9
5/12/2001	57.0	76.0	65.8	46.0	64.0	59.3	13.9	24.4	18.8	7.8	17.8	15.2
5/13/2001	49.0	65.0	56.2	27.0	46.0	36.4	9.4	18.3	13.4	-2.8	7.8	2.4
5/14/2001	36.0	62.0	49.7	28.0	47.0	37.5	2.2	16.7	9.8	-2.2	8.3	3.1
5/15/2001	42.0	73.0	52.6	30.0	46.0	40.8	5.6	22.8	11.4	-1.1	7.8	4.9
5/16/2001	40.0	72.0	56.1	26.0	45.0	37.2	4.4	22.2	13.4	-3.3	7.2	2.9
5/17/2001	53.0	66.0	56.2	44.0	54.0	47.5	11.7	18.9	13.4	6.7	12.2	8.6
5/18/2001	54.0	63.0	58.0	52.0	58.0	54.6	12.2	17.2	14.4	11.1	14.4	12.6
5/19/2001	57.0	80.0	63.5	48.0	58.0	55.5	13.9	26.7	17.5	8.9	14.4	13.1
5/20/2001	49.0	74.0	61.0	48.0	57.0	52.9	9.4	23.3	16.1	8.9	13.9	11.6
5/21/2001	52.0	63.0	56.1	50.0	55.0	52.6	11.1	17.2	13.4	10.0	12.8	11.4
5/22/2001	55.0	68.0	59.9	55.0	64.0	58.3	12.8	20.0	15.5	12.8	17.8	14.6
5/23/2001	53.0	73.0	62.9	42.0	63.0	51.6	11.7	22.8	17.2	5.6	17.2	10.9
5/24/2001	49.0	76.0	59.7	49.0	57.0	52.2	9.4	24.4	15.4	9.4	13.9	11.2
5/25/2001	60.0	71.0	64.4	52.0	57.0	55.1	15.6	21.7	18.0	11.1	13.9	12.8
5/26/2001	57.0	64.0	60.5	55.0	59.0	57.1	13.9	17.8	15.8	12.8	15.0	13.9
5/27/2001	59.0	67.0	61.0	54.0	59.0	56.1	15.0	19.4	16.1	12.2	15.0	13.4
5/28/2001	52.0	65.0	56.3	48.0	55.0	52.0	11.1	18.3	13.5	8.9	12.8	11.1
5/29/2001	49.0	71.0	59.1	45.0	56.0	50.6	9.4	21.7	15.1	7.2	13.3	10.3
5/30/2001	50.0	66.0	57.9	27.0	47.0	38.2	10.0	18.9	14.4	-2.8	8.3	3.4
5/31/2001	43.0	71.0	55.6	29.0	32.0	31.6	6.1	21.7	13.1	-1.7	0.0	-0.2
6/1/2001	41.0	66.0	53.1	31.0	54.0	42.7	5.0	18.9	11.7	-0.6	12.2	5.9
6/2/2001	54.0	71.0	60.2	48.0	57.0	51.5	12.2	21.7	15.7	8.9	13.9	10.8
6/3/2001	55.0	67.0	59.3	45.0	57.0	52.6	12.8	19.4	15.2	7.2	13.9	11.4
6/4/2001	55.0	71.0	62.4	47.0	52.0	49.4	12.8	21.7	16.9	8.3	11.1	9.7
6/5/2001	48.0	76.0	61.3	47.0	54.0	50.8	8.9	24.4	16.3	8.3	12.2	10.4
6/6/2001	60.0	73.0	66.0	51.0	56.0	54.0	15.6	22.8	18.9	10.6	13.3	12.2
6/7/2001	55.0	77.0	66.5	46.0	57.0	50.7	12.8	25.0	19.2	7.8	13.9	10.4
6/8/2001	49.0	79.0	64.7	41.0	53.0	46.9	9.4	26.1	18.2	5.0	11.7	8.3
6/9/2001	48.0	79.0	64.3	41.0	50.0	45.9	8.9	26.1	17.9	5.0	10.0	7.7
6/10/2001	48.0	80.0	62.8	45.0	56.0	50.3	8.9	26.7	17.1	7.2	13.3	10.2
6/11/2001	61.0	81.0	70.1	56.0	64.0	60.1	16.1	27.2	21.2	13.3	17.8	15.6

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
6/12/2001	55.0	85.0	66.9	55.0	68.0	60.5	12.8	29.4	19.4	12.8	20.0	15.8
6/13/2001	64.0	87.0	70.5	61.0	70.0	65.0	17.8	30.6	21.4	16.1	21.1	18.3
6/14/2001	63.0	90.0	76.3	61.0	70.0	65.5	17.2	32.2	24.6	16.1	21.1	18.6
6/15/2001	70.0	83.0	76.7	65.0	70.0	67.5	21.1	28.3	24.8	18.3	21.1	19.7
6/16/2001	70.0	84.0	75.4	32.0	70.0	46.7	21.1	28.9	24.1	0.0	21.1	8.2
6/17/2001	64.0	86.0	72.3	32.0	65.0	57.8	17.8	30.0	22.4	0.0	18.3	14.3
6/18/2001	59.0	84.0	71.5	54.0	61.0	57.8	15.0	28.9	21.9	12.2	16.1	14.3
6/19/2001	61.0	90.0	74.3	59.0	65.0	61.7	16.1	32.2	23.5	15.0	18.3	16.5
6/20/2001	62.0	88.0	73.4	59.0	68.0	63.8	16.7	31.1	23.0	15.0	20.0	17.7
6/21/2001	66.0	80.0	69.1	64.0	67.0	65.8	18.9	26.7	20.6	17.8	19.4	18.8
6/22/2001	64.0	80.0	71.3	64.0	70.0	66.4	17.8	26.7	21.8	17.8	21.1	19.1
6/23/2001	63.0	70.0	66.8	57.0	68.0	64.6	17.2	21.1	19.3	13.9	20.0	18.1
6/24/2001	55.0	78.0	63.1	55.0	61.0	56.5	12.8	25.6	17.3	12.8	16.1	13.6
6/25/2001	55.0	83.0	67.9	55.0	65.0	58.8	12.8	28.3	19.9	12.8	18.3	14.9
6/26/2001	59.0	85.0	71.2	55.0	63.0	59.9	15.0	29.4	21.8	12.8	17.2	15.5
6/27/2001	62.0	88.0	74.3	60.0	69.0	63.7	16.7	31.1	23.5	15.6	20.6	17.6
6/28/2001	64.0	89.0	75.1	62.0	71.0	66.0	17.8	31.7	23.9	16.7	21.7	18.9
6/29/2001	65.0	89.0	75.9	63.0	71.0	66.2	18.3	31.7	24.4	17.2	21.7	19.0
6/30/2001	66.0	86.0	75.4	64.0	70.0	67.8	18.9	30.0	24.1	17.8	21.1	19.9
7/1/2001	66.0	87.0	72.9	63.0	70.0	67.3	18.9	30.6	22.7	17.2	21.1	19.6
7/2/2001	52.0	71.0	61.1	39.0	68.0	44.8	11.1	21.7	16.2	3.9	20.0	7.1
7/3/2001	48.0	75.0	60.5	45.0	61.0	50.8	8.9	23.9	15.8	7.2	16.1	10.4
7/4/2001	61.0	79.0	70.3	60.0	70.0	64.2	16.1	26.1	21.3	15.6	21.1	17.9
7/5/2001	64.0	81.0	68.0	57.0	68.0	63.3	17.8	27.2	20.0	13.9	20.0	17.4
7/6/2001	53.0	76.0	63.8	47.0	64.0	54.4	11.7	24.4	17.7	8.3	17.8	12.4
7/7/2001	51.0	80.0	64.5	48.0	57.0	52.8	10.6	26.7	18.1	8.9	13.9	11.6
7/8/2001	64.0	80.0	69.5	54.0	73.0	64.4	17.8	26.7	20.8	12.2	22.8	18.0
7/9/2001	60.0	88.0	72.9	59.0	73.0	63.1	15.6	31.1	22.7	15.0	22.8	17.3
7/10/2001	61.0	83.0	71.5	60.0	67.0	64.1	16.1	28.3	21.9	15.6	19.4	17.8
7/11/2001	61.0	78.0	67.0	52.0	67.0	60.8	16.1	25.6	19.4	11.1	19.4	16.0
7/12/2001	57.0	77.0	66.3	49.0	55.0	53.3	13.9	25.0	19.1	9.4	12.8	11.8
7/13/2001	51.0	72.0	63.0	50.0	63.0	54.3	10.6	22.2	17.2	10.0	17.2	12.4
7/14/2001	56.0	77.0	66.0	53.0	63.0	56.3	13.3	25.0	18.9	11.7	17.2	13.5
7/15/2001	55.0	81.0	67.5	53.0	63.0	56.9	12.8	27.2	19.7	11.7	17.2	13.8
7/16/2001	59.0	79.0	68.8	57.0	67.0	61.6	15.0	26.1	20.4	13.9	19.4	16.4
7/17/2001	64.0	84.0	70.4	64.0	67.0	65.2	17.8	28.9	21.3	17.8	19.4	18.4
7/18/2001	66.0	82.0	69.8	64.0	68.0	65.6	18.9	27.8	21.0	17.8	20.0	18.7
7/19/2001	63.0	82.0	70.2	60.0	69.0	64.3	17.2	27.8	21.2	15.6	20.6	17.9
7/20/2001	63.0	82.0	72.6	54.0	68.0	62.1	17.2	27.8	22.6	12.2	20.0	16.7
7/21/2001	55.0	84.0	69.5	52.0	62.0	56.0	12.8	28.9	20.8	11.1	16.7	13.3
7/22/2001	55.0	85.0	69.7	54.0	62.0	58.0	12.8	29.4	20.9	12.2	16.7	14.4
7/23/2001	61.0	90.0	75.7	59.0	68.0	63.3	16.1	32.2	24.3	15.0	20.0	17.4
7/24/2001	67.0	96.0	80.5	64.0	72.0	67.0	19.4	35.6	26.9	17.8	22.2	19.4
7/25/2001	70.0	90.0	76.1	69.0	74.0	71.0	21.1	32.2	24.5	20.6	23.3	21.7

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
7/26/2001	66.0	77.0	70.7	48.0	72.0	64.3	18.9	25.0	21.5	8.9	22.2	17.9
7/27/2001	49.0	77.0	63.6	45.0	50.0	47.1	9.4	25.0	17.6	7.2	10.0	8.4
7/28/2001	53.0	81.0	65.9	49.0	57.0	53.3	11.7	27.2	18.8	9.4	13.9	11.8
7/29/2001	64.0	75.0	68.6	54.0	59.0	56.5	17.8	23.9	20.3	12.2	15.0	13.6
7/30/2001	63.0	75.0	68.0	57.0	64.0	60.5	17.2	23.9	20.0	13.9	17.8	15.8
7/31/2001	64.0	85.0	72.5	60.0	65.0	63.0	17.8	29.4	22.5	15.6	18.3	17.2
8/1/2001	60.0	87.0	73.0	59.0	65.0	61.4	15.6	30.6	22.8	15.0	18.3	16.3
8/2/2001	63.0	92.0	75.2	61.0	66.0	62.8	17.2	33.3	24.0	16.1	18.9	17.1
8/3/2001	68.0	86.0	76.8	58.0	71.0	65.6	20.0	30.0	24.9	14.4	21.7	18.7
8/4/2001	72.0	88.0	76.0	66.0	72.0	70.2	22.2	31.1	24.4	18.9	22.2	21.2
8/5/2001	66.0	90.0	72.1	59.0	71.0	66.8	18.9	32.2	22.3	15.0	21.7	19.3
8/6/2001	66.0	93.0	79.7	32.0	70.0	56.6	18.9	33.9	26.5	0.0	21.1	13.7
8/7/2001	69.0	96.0	81.8	63.0	73.0	67.3	20.6	35.6	27.7	17.2	22.8	19.6
8/8/2001	74.0	98.0	85.0	58.0	72.0	67.8	23.3	36.7	29.4	14.4	22.2	19.9
8/9/2001	67.0	99.0	81.1	63.0	72.0	66.1	19.4	37.2	27.3	17.2	22.2	18.9
8/10/2001	73.0	90.0	77.6	68.0	75.0	72.0	22.8	32.2	25.3	20.0	23.9	22.2
8/11/2001	66.0	79.0	73.3	59.0	73.0	65.7	18.9	26.1	22.9	15.0	22.8	18.7
8/12/2001	68.0	81.0	73.7	64.0	72.0	67.5	20.0	27.2	23.2	17.8	22.2	19.7
8/13/2001	68.0	88.0	74.3	56.0	71.0	67.4	20.0	31.1	23.5	13.3	21.7	19.7
8/14/2001	65.0	85.0	75.1	51.0	63.0	59.1	18.3	29.4	23.9	10.6	17.2	15.1
8/15/2001	57.0	85.0	71.0	53.0	61.0	56.6	13.9	29.4	21.7	11.7	16.1	13.7
8/16/2001	60.0	85.0	72.7	55.0	70.0	62.9	15.6	29.4	22.6	12.8	21.1	17.2
8/17/2001	69.0	82.0	73.3	55.0	70.0	66.8	20.6	27.8	22.9	12.8	21.1	19.3
8/18/2001	59.0	81.0	68.1	57.0	64.0	60.0	15.0	27.2	20.1	13.9	17.8	15.6
8/19/2001	62.0	84.0	72.2	60.0	66.0	63.3	16.7	28.9	22.3	15.6	18.9	17.4
8/20/2001	66.0	80.0	69.5	59.0	67.0	64.9	18.9	26.7	20.8	15.0	19.4	18.3
8/21/2001	63.0	79.0	70.4	57.0	63.0	60.6	17.2	26.1	21.3	13.9	17.2	15.9
8/22/2001	57.0	81.0	68.0	53.0	61.0	57.3	13.9	27.2	20.0	11.7	16.1	14.1
8/23/2001	61.0	70.0	64.2	57.0	65.0	60.8	16.1	21.1	17.9	13.9	18.3	16.0
8/24/2001	62.0	82.0	68.2	55.0	65.0	62.5	16.7	27.8	20.1	12.8	18.3	16.9
8/25/2001	52.0	81.0	65.8	51.0	61.0	56.3	11.1	27.2	18.8	10.6	16.1	13.5
8/26/2001	66.0	83.0	72.7	59.0	66.0	62.1	18.9	28.3	22.6	15.0	18.9	16.7
8/27/2001	69.0	82.0	74.2	60.0	72.0	67.8	20.6	27.8	23.4	15.6	22.2	19.9
8/28/2001	62.0	81.0	67.2	61.0	66.0	63.4	16.7	27.2	19.6	16.1	18.9	17.4
8/29/2001	62.0	79.0	67.4	52.0	66.0	61.9	16.7	26.1	19.7	11.1	18.9	16.6
8/30/2001	56.0	79.0	65.7	53.0	68.0	59.4	13.3	26.1	18.7	11.7	20.0	15.2
8/31/2001	68.0	79.0	71.9	66.0	73.0	68.4	20.0	26.1	22.2	18.9	22.8	20.2
9/1/2001	60.0	70.0	67.8	48.0	68.0	60.7	15.6	21.1	19.9	8.9	20.0	15.9
9/2/2001	48.0	70.0	55.2	42.0	53.0	48.3	8.9	21.1	12.9	5.6	11.7	9.1
9/3/2001	48.0	77.0	58.6	46.0	61.0	51.7	8.9	25.0	14.8	7.8	16.1	10.9
9/4/2001	61.0	79.0	69.5	55.0	70.0	63.2	16.1	26.1	20.8	12.8	21.1	17.3
9/5/2001	55.0	73.0	64.2	48.0	60.0	52.6	12.8	22.8	17.9	8.9	15.6	11.4
9/6/2001	49.0	76.0	58.1	48.0	57.0	50.3	9.4	24.4	14.5	8.9	13.9	10.2
9/7/2001	49.0	83.0	60.6	48.0	65.0	54.0	9.4	28.3	15.9	8.9	18.3	12.2

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
9/8/2001	61.0	83.0	71.7	59.0	67.0	62.4	16.1	28.3	22.1	15.0	19.4	16.9
9/9/2001	61.0	82.0	70.9	59.0	67.0	62.1	16.1	27.8	21.6	15.0	19.4	16.7
9/10/2001	66.0	78.0	71.4	60.0	69.0	64.6	18.9	25.6	21.9	15.6	20.6	18.1
9/11/2001	55.0	77.0	63.0	51.0	61.0	55.5	12.8	25.0	17.2	10.6	16.1	13.1
9/12/2001	52.0	75.0	60.1	50.0	59.0	53.2	11.1	23.9	15.6	10.0	15.0	11.8
9/13/2001	52.0	81.0	60.9	51.0	63.0	55.8	11.1	27.2	16.1	10.6	17.2	13.2
9/14/2001	53.0	65.0	58.3	39.0	63.0	49.5	11.7	18.3	14.6	3.9	17.2	9.7
9/15/2001	44.0	66.0	53.2	41.0	49.0	43.8	6.7	18.9	11.8	5.0	9.4	6.6
9/16/2001	45.0	71.0	52.3	44.0	55.0	47.0	7.2	21.7	11.3	6.7	12.8	8.3
9/17/2001	48.0	74.0	55.7	46.0	57.0	49.2	8.9	23.3	13.2	7.8	13.9	9.6
9/18/2001	51.0	75.0	59.4	50.0	61.0	53.1	10.6	23.9	15.2	10.0	16.1	11.7
9/19/2001	52.0	77.0	60.9	51.0	59.0	53.9	11.1	25.0	16.1	10.6	15.0	12.2
9/20/2001	64.0	72.0	66.8	54.0	64.0	61.0	17.8	22.2	19.3	12.2	17.8	16.1
9/21/2001	60.0	75.0	64.9	56.0	63.0	60.6	15.6	23.9	18.3	13.3	17.2	15.9
9/22/2001	55.0	74.0	63.6	55.0	59.0	56.8	12.8	23.3	17.6	12.8	15.0	13.8
9/23/2001	53.0	74.0	58.9	53.0	60.0	54.8	11.7	23.3	14.9	11.7	15.6	12.7
9/24/2001	55.0	71.0	64.5	53.0	66.0	61.7	12.8	21.7	18.1	11.7	18.9	16.5
9/25/2001	52.0	63.0	59.1	41.0	63.0	55.8	11.1	17.2	15.1	5.0	17.2	13.2
9/26/2001	41.0	58.0	49.6	37.0	42.0	40.1	5.0	14.4	9.8	2.8	5.6	4.5
9/27/2001	48.0	58.0	53.6	37.0	48.0	43.3	8.9	14.4	12.0	2.8	8.9	6.3
9/28/2001	46.0	58.0	50.1	43.0	50.0	45.7	7.8	14.4	10.1	6.1	10.0	7.6
9/29/2001	50.0	64.0	54.4	40.0	50.0	44.9	10.0	17.8	12.4	4.4	10.0	7.2
9/30/2001	41.0	65.0	49.5	35.0	48.0	41.8	5.0	18.3	9.7	1.7	8.9	5.4
10/1/2001	43.0	72.0	53.5	39.0	53.0	44.3	6.1	22.2	11.9	3.9	11.7	6.8
10/2/2001	46.0	75.0	57.5	44.0	58.0	50.4	7.8	23.9	14.2	6.7	14.4	10.2
10/3/2001	52.0	79.0	60.4	52.0	61.0	55.6	11.1	26.1	15.8	11.1	16.1	13.1
10/4/2001	48.0	80.0	58.9	46.0	60.0	51.9	8.9	26.7	14.9	7.8	15.6	11.1
10/5/2001	48.0	77.0	58.8	48.0	57.0	52.0	8.9	25.0	14.9	8.9	13.9	11.1
10/6/2001	50.0	70.0	59.5	32.0	55.0	45.6	10.0	21.1	15.3	0.0	12.8	7.6
10/7/2001	39.0	50.0	45.9	24.0	35.0	29.6	3.9	10.0	7.7	-4.4	1.7	-1.3
10/8/2001	33.0	53.0	41.7	22.0	32.0	27.9	0.6	11.7	5.4	-5.6	0.0	-2.3
10/9/2001	28.0	60.0	38.2	25.0	32.0	28.1	-2.2	15.6	3.4	-3.9	0.0	-2.2
10/10/2001	37.0	66.0	50.4	25.0	39.0	34.0	2.8	18.9	10.2	-3.9	3.9	1.1
10/11/2001	39.0	73.0	53.1	37.0	53.0	43.8	3.9	22.8	11.7	2.8	11.7	6.6
10/12/2001	48.0	70.0	57.6	47.0	58.0	51.8	8.9	21.1	14.2	8.3	14.4	11.0
10/13/2001	57.0	77.0	66.2	55.0	59.0	57.5	13.9	25.0	19.0	12.8	15.0	14.2
10/14/2001	62.0	71.0	65.5	51.0	61.0	55.5	16.7	21.7	18.6	10.6	16.1	13.1
10/15/2001	46.0	64.0	55.9	34.0	63.0	49.4	7.8	17.8	13.3	1.1	17.2	9.7
10/16/2001	37.0	64.0	47.5	36.0	46.0	40.4	2.8	17.8	8.6	2.2	7.8	4.7
10/17/2001	46.0	52.0	48.3	24.0	44.0	34.4	7.8	11.1	9.1	-4.4	6.7	1.3
10/18/2001	32.0	56.0	43.1	24.0	35.0	29.0	0.0	13.3	6.2	-4.4	1.7	-1.7
10/19/2001	33.0	60.0	45.2	31.0	37.0	34.3	0.6	15.6	7.3	-0.6	2.8	1.3
10/20/2001	43.0	67.0	52.7	37.0	43.0	40.3	6.1	19.4	11.5	2.8	6.1	4.6
10/21/2001	39.0	74.0	52.2	37.0	47.0	41.3	3.9	23.3	11.2	2.8	8.3	5.2

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
10/22/2001	52.0	68.0	55.8	44.0	53.0	49.6	11.1	20.0	13.2	6.7	11.7	9.8
10/23/2001	46.0	66.0	53.6	46.0	57.0	49.9	7.8	18.9	12.0	7.8	13.9	9.9
10/24/2001	57.0	73.0	61.5	55.0	60.0	58.1	13.9	22.8	16.4	12.8	15.6	14.5
10/25/2001	54.0	70.0	63.0	25.0	59.0	45.7	12.2	21.1	17.2	-3.9	15.0	7.6
10/26/2001	41.0	56.0	48.7	23.0	30.0	25.9	5.0	13.3	9.3	-5.0	-1.1	-3.4
10/27/2001	39.0	47.0	41.3	22.0	34.0	29.2	3.9	8.3	5.2	-5.6	1.1	-1.6
10/28/2001	32.0	48.0	39.9	23.0	27.0	25.1	0.0	8.9	4.4	-5.0	-2.8	-3.8
10/29/2001	27.0	56.0	38.0	24.0	32.0	27.4	-2.8	13.3	3.3	-4.4	0.0	-2.6
10/30/2001	42.0	56.0	48.2	17.0	39.0	30.6	5.6	13.3	9.0	-8.3	3.9	-0.8
10/31/2001	40.0	50.0	44.8	18.0	32.0	27.1	4.4	10.0	7.1	-7.8	0.0	-2.7
11/1/2001	35.0	63.0	46.6	30.0	45.0	37.0	1.7	17.2	8.1	-1.1	7.2	2.8
11/2/2001	46.0	73.0	57.7	42.0	51.0	45.7	7.8	22.8	14.3	5.6	10.6	7.6
11/3/2001	52.0	71.0	59.0	33.0	56.0	47.0	11.1	21.7	15.0	0.6	13.3	8.3
11/4/2001	39.0	57.0	46.1	35.0	41.0	37.3	3.9	13.9	7.8	1.7	5.0	2.9
11/5/2001	39.0	57.0	44.9	23.0	39.0	27.3	3.9	13.9	7.2	-5.0	3.9	-2.6
11/6/2001	39.0	55.0	44.4	20.0	27.0	24.7	3.9	12.8	6.9	-6.7	-2.8	-4.1
11/7/2001	39.0	65.0	51.2	24.0	42.0	32.8	3.9	18.3	10.7	-4.4	5.6	0.4
11/8/2001	38.0	66.0	49.8	32.0	43.0	38.6	3.3	18.9	9.9	0.0	6.1	3.7
11/9/2001	41.0	66.0	48.7	22.0	43.0	28.5	5.0	18.9	9.3	-5.6	6.1	-1.9
11/10/2001	29.0	61.0	40.2	24.0	32.0	27.4	-1.7	16.1	4.6	-4.4	0.0	-2.6
11/11/2001	36.0	50.0	43.4	17.0	36.0	25.7	2.2	10.0	6.3	-8.3	2.2	-3.5
11/12/2001	23.0	49.0	34.6	19.0	27.0	22.8	-5.0	9.4	1.4	-7.2	-2.8	-5.1
11/13/2001	24.0	52.0	35.4	21.0	30.0	26.1	-4.4	11.1	1.9	-6.1	-1.1	-3.3
11/14/2001	27.0	56.0	37.1	24.0	32.0	28.0	-2.8	13.3	2.8	-4.4	0.0	-2.2
11/15/2001	37.0	58.0	45.5	30.0	47.0	39.0	2.8	14.4	7.5	-1.1	8.3	3.9
11/16/2001	38.0	70.0	48.7	36.0	48.0	40.8	3.3	21.1	9.3	2.2	8.9	4.9
11/17/2001	34.0	58.0	45.7	28.0	42.0	34.4	1.1	14.4	7.6	-2.2	5.6	1.3
11/18/2001	28.0	52.0	37.7	25.0	41.0	31.0	-2.2	11.1	3.2	-3.9	5.0	-0.6
11/19/2001	34.0	55.0	40.9	33.0	43.0	38.0	1.1	12.8	4.9	0.6	6.1	3.3
11/20/2001	37.0	57.0	44.4	21.0	46.0	32.0	2.8	13.9	6.9	-6.1	7.8	0.0
11/21/2001	28.0	46.0	37.5	21.0	26.0	23.4	-2.2	7.8	3.1	-6.1	-3.3	-4.8
11/22/2001	26.0	50.0	36.3	22.0	30.0	25.6	-3.3	10.0	2.4	-5.6	-1.1	-3.6
11/23/2001	26.0	56.0	37.9	24.0	31.0	27.6	-3.3	13.3	3.3	-4.4	-0.6	-2.4
11/24/2001	33.0	59.0	47.0	28.0	55.0	42.6	0.6	15.0	8.3	-2.2	12.8	5.9
11/25/2001	53.0	62.0	58.3	48.0	57.0	54.5	11.7	16.7	14.6	8.9	13.9	12.5
11/26/2001	45.0	55.0	48.7	42.0	49.0	45.3	7.2	12.8	9.3	5.6	9.4	7.4
11/27/2001	37.0	52.0	41.9	37.0	45.0	39.3	2.8	11.1	5.5	2.8	7.2	4.1
11/28/2001	48.0	55.0	50.6	45.0	50.0	47.1	8.9	12.8	10.3	7.2	10.0	8.4
11/29/2001	49.0	54.0	51.5	46.0	52.0	49.1	9.4	12.2	10.8	7.8	11.1	9.5
11/30/2001	52.0	64.0	58.0	51.0	61.0	56.1	11.1	17.8	14.4	10.6	16.1	13.4
12/1/2001	46.0	57.0	51.7	36.0	57.0	46.0	7.8	13.9	10.9	2.2	13.9	7.8
12/2/2001	39.0	52.0	44.8	35.0	39.0	36.9	3.9	11.1	7.1	1.7	3.9	2.7
12/3/2001	30.0	51.0	36.5	29.0	36.0	31.1	-1.1	10.6	2.5	-1.7	2.2	-0.5
12/4/2001	30.0	58.0	39.5	28.0	32.0	30.9	-1.1	14.4	4.2	-2.2	0.0	-0.6

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
12/5/2001	46.0	65.0	53.0	30.0	48.0	41.1	7.8	18.3	11.7	-1.1	8.9	5.1
12/6/2001	39.0	60.0	49.5	39.0	46.0	42.5	3.9	15.6	9.7	3.9	7.8	5.8
12/7/2001	43.0	56.0	49.3	31.0	48.0	43.7	6.1	13.3	9.6	-0.6	8.9	6.5
12/8/2001	30.0	42.0	33.3	27.0	34.0	30.8	-1.1	5.6	0.7	-2.8	1.1	-0.7
12/9/2001	32.0	43.0	35.2	27.0	34.0	31.8	0.0	6.1	1.8	-2.8	1.1	-0.1
12/10/2001	25.0	39.0	29.0	24.0	29.0	26.5	-3.9	3.9	-1.7	-4.4	-1.7	-3.1
12/11/2001	36.0	50.0	45.1	32.0	36.0	34.0	2.2	10.0	7.3	0.0	2.2	1.1
12/12/2001	26.0	45.0	33.3	25.0	32.0	29.0	-3.3	7.2	0.7	-3.9	0.0	-1.7
12/13/2001	42.0	48.0	45.3	30.0	47.0	41.9	5.6	8.9	7.4	-1.1	8.3	5.5
12/14/2001	46.0	55.0	48.3	46.0	52.0	47.3	7.8	12.8	9.1	7.8	11.1	8.5
12/15/2001	36.0	56.0	43.7	22.0	52.0	31.0	2.2	13.3	6.5	-5.6	11.1	-0.6
12/16/2001	26.0	38.0	31.4	22.0	28.0	25.3	-3.3	3.3	-0.3	-5.6	-2.2	-3.7
12/17/2001	36.0	41.0	37.6	25.0	39.0	32.2	2.2	5.0	3.1	-3.9	3.9	0.1
12/18/2001	39.0	46.0	42.4	32.0	42.0	37.3	3.9	7.8	5.8	0.0	5.6	2.9
12/19/2001	37.0	47.0	41.8	30.0	33.0	30.9	2.8	8.3	5.4	-1.1	0.6	-0.6
12/20/2001	32.0	40.0	36.3	21.0	34.0	27.6	0.0	4.4	2.4	-6.1	1.1	-2.4
12/21/2001	33.0	40.0	36.2	15.0	27.0	20.9	0.6	4.4	2.3	-9.4	-2.8	-6.2
12/22/2001	25.0	38.0	31.0	16.0	22.0	19.2	-3.9	3.3	-0.6	-8.9	-5.6	-7.1
12/23/2001	26.0	41.0	33.0	21.0	27.0	22.8	-3.3	5.0	0.6	-6.1	-2.8	-5.1
12/24/2001	28.0	40.0	35.1	19.0	32.0	25.9	-2.2	4.4	1.7	-7.2	0.0	-3.4
12/25/2001	23.0	32.0	27.9	10.0	19.0	14.1	-5.0	0.0	-2.3	-12.2	-7.2	-9.9
12/26/2001	20.0	30.0	24.2	9.0	17.0	13.2	-6.7	-1.1	-4.3	-12.8	-8.3	-10.4
12/27/2001	14.0	27.0	21.7	10.0	15.0	12.7	-10.0	-2.8	-5.7	-12.2	-9.4	-10.7
12/28/2001	25.0	35.0	28.8	12.0	27.0	18.8	-3.9	1.7	-1.8	-11.1	-2.8	-7.3
12/29/2001	17.0	31.0	24.0	12.0	22.0	16.2	-8.3	-0.6	-4.4	-11.1	-5.6	-8.8
12/30/2001	19.0	27.0	22.6	6.0	13.0	9.1	-7.2	-2.8	-5.2	-14.4	-10.6	-12.7
12/31/2001	16.0	26.0	22.6	5.0	8.0	9.1	-8.9	-3.3	-5.2	-15.0	-13.3	-12.7
1/1/2002	12.0	32.0	21.9	6.0	14.0	9.2	-11.1	0.0	-5.6	-14.4	-10.0	-12.7
1/2/2002	12.0	33.0	22.5	9.0	16.0	13.5	-11.1	0.6	-5.3	-12.8	-8.9	-10.3
1/3/2002	11.0	31.0	20.4	9.0	16.0	13.5	-11.7	-0.6	-6.4	-12.8	-8.9	-10.3
1/4/2002	32.0	35.0	33.0	11.0	12.0	11.8	0.0	1.7	0.6	-11.7	-11.1	-11.2
1/5/2002	27.0	41.0	32.8	12.0	21.0	15.5	-2.8	5.0	0.4	-11.1	-6.1	-9.2
1/6/2002	28.0	39.0	32.3	13.0	31.0	22.2	-2.2	3.9	0.2	-10.6	-0.6	-5.4
1/7/2002	28.0	34.0	31.9	19.0	31.0	27.7	-2.2	1.1	-0.1	-7.2	-0.6	-2.4
1/8/2002	20.0	30.0	25.1	14.0	19.0	16.2	-6.7	-1.1	-3.8	-10.0	-7.2	-8.8
1/9/2002	21.0	41.0	29.3	16.0	28.0	21.0	-6.1	5.0	-1.5	-8.9	-2.2	-6.1
1/10/2002	36.0	49.0	43.1	29.0	34.0	31.4	2.2	9.4	6.2	-1.7	1.1	-0.3
1/11/2002	32.0	41.0	35.8	24.0	35.0	29.7	0.0	5.0	2.1	-4.4	1.7	-1.3
1/12/2002	31.0	42.0	37.6	24.0	26.0	24.8	-0.6	5.6	3.1	-4.4	-3.3	-4.0
1/13/2002	32.0	40.0	36.2	18.0	30.0	24.1	0.0	4.4	2.3	-7.8	-1.1	-4.4
1/14/2002	28.0	43.0	35.0	19.0	23.0	21.1	-2.2	6.1	1.7	-7.2	-5.0	-6.1
1/15/2002	35.0	42.0	38.8	22.0	30.0	27.0	1.7	5.6	3.8	-5.6	-1.1	-2.8
1/16/2002	33.0	37.0	35.6	17.0	29.0	21.3	0.6	2.8	2.0	-8.3	-1.7	-5.9
1/17/2002	32.0	42.0	35.9	16.0	27.0	21.1	0.0	5.6	2.2	-8.9	-2.8	-6.1

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
1/18/2002	29.0	35.0	31.6	8.0	18.0	13.5	-1.7	1.7	-0.2	-13.3	-7.8	-10.3
1/19/2002	21.0	30.0	25.0	10.0	25.0	19.1	-6.1	-1.1	-3.9	-12.2	-3.9	-7.2
1/20/2002	12.0	32.0	23.4	9.0	25.0	20.4	-11.1	0.0	-4.8	-12.8	-3.9	-6.4
1/21/2002	24.0	36.0	30.4	20.0	31.0	25.6	-4.4	2.2	-0.9	-6.7	-0.6	-3.6
1/22/2002	31.0	44.0	37.4	19.0	30.0	23.7	-0.6	6.7	3.0	-7.2	-1.1	-4.6
1/23/2002	29.0	45.0	38.6	23.0	31.0	27.0	-1.7	7.2	3.7	-5.0	-0.6	-2.8
1/24/2002	36.0	43.0	39.1	28.0	36.0	30.4	2.2	6.1	3.9	-2.2	2.2	-0.9
1/25/2002	30.0	45.0	38.4	16.0	30.0	24.3	-1.1	7.2	3.6	-8.9	-1.1	-4.3
1/26/2002	22.0	54.0	34.7	17.0	26.0	20.7	-5.6	12.2	1.5	-8.3	-3.3	-6.3
1/27/2002	24.0	57.0	35.9	21.0	29.0	24.4	-4.4	13.9	2.2	-6.1	-1.7	-4.2
1/28/2002	25.0	55.0	36.2	24.0	31.0	28.1	-3.9	12.8	2.3	-4.4	-0.6	-2.2
1/29/2002	32.0	58.0	40.8	30.0	32.0	30.8	0.0	14.4	4.9	-1.1	0.0	-0.7
1/30/2002	45.0	54.0	49.0	27.0	52.0	43.2	7.2	12.2	9.4	-2.8	11.1	6.2
1/31/2002	33.0	45.0	36.5	28.0	39.0	33.5	0.6	7.2	2.5	-2.2	3.9	0.8
2/1/2002	39.0	57.0	42.4	23.0	47.0	38.4	3.9	13.9	5.8	-5.0	8.3	3.6
2/2/2002	27.0	42.0	32.6	12.0	23.0	14.5	-2.8	5.6	0.3	-11.1	-5.0	-9.7
2/3/2002	19.0	43.0	29.1	17.0	21.0	18.2	-7.2	6.1	-1.6	-8.3	-6.1	-7.7
2/4/2002	21.0	36.0	30.0	7.0	29.0	21.9	-6.1	2.2	-1.1	-13.9	-1.7	-5.6
2/5/2002	15.0	34.0	22.4	2.0	10.0	5.6	-9.4	1.1	-5.3	-16.7	-12.2	-14.7
2/6/2002	29.0	39.0	32.9	8.0	23.0	16.6	-1.7	3.9	0.5	-13.3	-5.0	-8.6
2/7/2002	29.0	45.0	33.3	22.0	32.0	26.8	-1.7	7.2	0.7	-5.6	0.0	-2.9
2/8/2002	26.0	51.0	37.3	19.0	31.0	25.2	-3.3	10.6	2.9	-7.2	-0.6	-3.8
2/9/2002	28.0	48.0	37.7	20.0	27.0	25.4	-2.2	8.9	3.2	-6.7	-2.8	-3.7
2/10/2002	39.0	45.0	40.9	24.0	40.0	34.8	3.9	7.2	4.9	-4.4	4.4	1.6
2/11/2002	26.0	43.0	36.0	2.0	41.0	28.1	-3.3	6.1	2.2	-16.7	5.0	-2.2
2/12/2002	20.0	48.0	32.0	2.0	25.0	15.4	-6.7	8.9	0.0	-16.7	-3.9	-9.2
2/13/2002	27.0	42.0	32.8	0.0	28.0	13.3	-2.8	5.6	0.4	-17.8	-2.2	-10.4
2/14/2002	12.0	42.0	24.6	0.0	14.0	8.4	-11.1	5.6	-4.1	-17.8	-10.0	-13.1
2/15/2002	26.0	43.0	32.9	8.0	21.0	15.2	-3.3	6.1	0.5	-13.3	-6.1	-9.3
2/16/2002	35.0	48.0	42.5	21.0	30.0	24.6	1.7	8.9	5.8	-6.1	-1.1	-4.1
2/17/2002	30.0	47.0	37.2	12.0	31.0	22.4	-1.1	8.3	2.9	-11.1	-0.6	-5.3
2/18/2002	21.0	42.0	29.9	12.0	19.0	14.2	-6.1	5.6	-1.2	-11.1	-7.2	-9.9
2/19/2002	19.0	48.0	31.6	15.0	20.0	16.9	-7.2	8.9	-0.2	-9.4	-6.7	-8.4
2/20/2002	41.0	55.0	47.2	17.0	31.0	22.7	5.0	12.8	8.4	-8.3	-0.6	-5.2
2/21/2002	39.0	55.0	47.1	28.0	31.0	30.0	3.9	12.8	8.4	-2.2	-0.6	-1.1
2/22/2002	37.0	45.0	39.8	25.0	31.0	28.1	2.8	7.2	4.3	-3.9	-0.6	-2.2
2/23/2002	30.0	44.0	35.6	12.0	26.0	17.4	-1.1	6.7	2.0	-11.1	-3.3	-8.1
2/24/2002	19.0	50.0	32.6	17.0	22.0	18.5	-7.2	10.0	0.3	-8.3	-5.6	-7.5
2/25/2002	28.0	57.0	40.3	17.0	25.0	20.5	-2.2	13.9	4.6	-8.3	-3.9	-6.4
2/26/2002	30.0	55.0	44.2	24.0	31.0	28.6	-1.1	12.8	6.8	-4.4	-0.6	-1.9
2/27/2002	27.0	41.0	32.9	10.0	31.0	18.1	-2.8	5.0	0.5	-12.2	-0.6	-7.7
2/28/2002	24.0	37.0	28.6	8.0	20.0	12.5	-4.4	2.8	-1.9	-13.3	-6.7	-10.8
3/1/2002	18.0	44.0	29.0	11.0	16.0	13.3	-7.8	6.7	-1.7	-11.7	-8.9	-10.4
3/2/2002	23.0	45.0	33.2	14.0	30.0	20.0	-5.0	7.2	0.7	-10.0	-1.1	-6.7

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
3/3/2002	37.0	54.0	47.5	18.0	31.0	29.3	2.8	12.2	8.6	-7.8	-0.6	-1.5
3/4/2002	21.0	38.0	26.7	3.0	18.0	10.6	-6.1	3.3	-2.9	-16.1	-7.8	-11.9
3/5/2002	14.0	32.0	20.9	-2.0	19.0	5.9	-10.0	0.0	-6.2	-18.9	-7.2	-14.5
3/6/2002	21.0	62.0	36.3	17.0	25.0	20.4	-6.1	16.7	2.4	-8.3	-3.9	-6.4
3/7/2002	27.0	56.0	40.7	18.0	30.0	23.8	-2.8	13.3	4.8	-7.8	-1.1	-4.6
3/8/2002	31.0	66.0	46.4	28.0	34.0	30.7	-0.6	18.9	8.0	-2.2	1.1	-0.7
3/9/2002	50.0	63.0	58.3	27.0	56.0	46.3	10.0	17.2	14.6	-2.8	13.3	7.9
3/10/2002	28.0	64.0	39.5	5.0	56.0	21.8	-2.2	17.8	4.2	-15.0	13.3	-5.7
3/11/2002	24.0	40.0	29.6	5.0	14.0	9.4	-4.4	4.4	-1.3	-15.0	-10.0	-12.6
3/12/2002	33.0	46.0	38.0	10.0	30.0	18.5	0.6	7.8	3.3	-12.2	-1.1	-7.5
3/13/2002	33.0	45.0	41.2	26.0	43.0	36.0	0.6	7.2	5.1	-3.3	6.1	2.2
3/14/2002	43.0	62.0	47.8	36.0	43.0	41.1	6.1	16.7	8.8	2.2	6.1	5.1
3/15/2002	52.0	68.0	57.9	40.0	54.0	45.4	11.1	20.0	14.4	4.4	12.2	7.4
3/16/2002	36.0	64.0	50.2	25.0	56.0	44.2	2.2	17.8	10.1	-3.9	13.3	6.8
3/17/2002	27.0	36.0	32.4	17.0	31.0	24.2	-2.8	2.2	0.2	-8.3	-0.6	-4.3
3/18/2002	33.0	39.0	35.5	30.0	36.0	32.6	0.6	3.9	1.9	-1.1	2.2	0.3
3/19/2002	37.0	44.0	39.4	26.0	37.0	31.3	2.8	6.7	4.1	-3.3	2.8	-0.4
3/20/2002	35.0	41.0	37.7	28.0	38.0	34.1	1.7	5.0	3.2	-2.2	3.3	1.2
3/21/2002	32.0	54.0	39.8	25.0	39.0	30.8	0.0	12.2	4.3	-3.9	3.9	-0.7
3/22/2002	18.0	34.0	23.7	0.0	25.0	8.2	-7.8	1.1	-4.6	-17.8	-3.9	-13.2
3/23/2002	19.0	47.0	30.9	8.0	17.0	13.0	-7.2	8.3	-0.6	-13.3	-8.3	-10.6
3/24/2002	25.0	51.0	38.3	13.0	31.0	20.9	-3.9	10.6	3.5	-10.6	-0.6	-6.2
3/25/2002	32.0	40.0	34.6	20.0	31.0	28.0	0.0	4.4	1.4	-6.7	-0.6	-2.2
3/26/2002	32.0	37.0	35.4	28.0	36.0	32.9	0.0	2.8	1.9	-2.2	2.2	0.5
3/27/2002	36.0	42.0	38.6	24.0	36.0	31.6	2.2	5.6	3.7	-4.4	2.2	-0.2
3/28/2002	27.0	52.0	37.6	18.0	27.0	22.3	-2.8	11.1	3.1	-7.8	-2.8	-5.4
3/29/2002	34.0	63.0	45.5	24.0	41.0	30.1	1.1	17.2	7.5	-4.4	5.0	-1.1
3/30/2002	53.0	64.0	57.3	24.0	46.0	35.8	11.7	17.8	14.1	-4.4	7.8	2.1
3/31/2002	38.0	59.0	50.0	26.0	43.0	32.7	3.3	15.0	10.0	-3.3	6.1	0.4
4/1/2002	44.0	52.0	46.9	18.0	45.0	36.4	6.7	11.1	8.3	-7.8	7.2	2.4
4/2/2002	34.0	63.0	44.5	18.0	36.0	26.5	1.1	17.2	6.9	-7.8	2.2	-3.1
4/3/2002	39.0	61.0	52.6	24.0	47.0	38.4	3.9	16.1	11.4	-4.4	8.3	3.6
4/4/2002	29.0	47.0	38.4	16.0	24.0	20.4	-1.7	8.3	3.6	-8.9	-4.4	-6.4
4/5/2002	24.0	41.0	33.3	14.0	20.0	17.6	-4.4	5.0	0.7	-10.0	-6.7	-8.0
4/6/2002	28.0	41.0	33.2	17.0	29.0	24.3	-2.2	5.0	0.7	-8.3	-1.7	-4.3
4/7/2002	22.0	49.0	34.5	17.0	22.0	19.0	-5.6	9.4	1.4	-8.3	-5.6	-7.2
4/8/2002	43.0	59.0	48.0	20.0	37.0	29.9	6.1	15.0	8.9	-6.7	2.8	-1.2
4/9/2002	57.0	66.0	61.2	37.0	58.0	49.3	13.9	18.9	16.2	2.8	14.4	9.6
4/10/2002	45.0	64.0	53.7	27.0	57.0	37.7	7.2	17.8	12.1	-2.8	13.9	3.2
4/11/2002	33.0	67.0	51.4	29.0	36.0	32.6	0.6	19.4	10.8	-1.7	2.2	0.3
4/12/2002	41.0	62.0	50.8	28.0	48.0	37.6	5.0	16.7	10.4	-2.2	8.9	3.1
4/13/2002	55.0	64.0	60.1	49.0	59.0	55.5	12.8	17.8	15.6	9.4	15.0	13.1
4/14/2002	48.0	71.0	55.8	48.0	63.0	53.8	8.9	21.7	13.2	8.9	17.2	12.1
4/15/2002	57.0	78.0	64.1	57.0	61.0	58.5	13.9	25.6	17.8	13.9	16.1	14.7

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
4/16/2002	56.0	89.0	70.9	55.0	62.0	58.3	13.3	31.7	21.6	12.8	16.7	14.6
4/17/2002	55.0	91.0	72.5	54.0	60.0	56.2	12.8	32.8	22.5	12.2	15.6	13.4
4/18/2002	61.0	89.0	75.4	56.0	61.0	58.0	16.1	31.7	24.1	13.3	16.1	14.4
4/19/2002	58.0	88.0	73.4	56.0	61.0	58.7	14.4	31.1	23.0	13.3	16.1	14.8
4/20/2002	55.0	77.0	61.0	45.0	60.0	51.7	12.8	25.0	16.1	7.2	15.6	10.9
4/21/2002	43.0	57.0	45.9	22.0	45.0	30.8	6.1	13.9	7.7	-5.6	7.2	-0.7
4/22/2002	39.0	52.0	44.2	27.0	46.0	38.0	3.9	11.1	6.8	-2.8	7.8	3.3
4/23/2002	34.0	55.0	44.0	19.0	30.0	23.7	1.1	12.8	6.7	-7.2	-1.1	-4.6
4/24/2002	29.0	61.0	45.3	18.0	29.0	25.2	-1.7	16.1	7.4	-7.8	-1.7	-3.8
4/25/2002	44.0	57.0	48.6	19.0	46.0	35.9	6.7	13.9	9.2	-7.2	7.8	2.2
4/26/2002	33.0	61.0	47.1	19.0	32.0	26.8	0.6	16.1	8.4	-7.2	0.0	-2.9
4/27/2002	30.0	59.0	46.1	20.0	30.0	25.8	-1.1	15.0	7.8	-6.7	-1.1	-3.4
4/28/2002	46.0	64.0	53.1	28.0	61.0	48.5	7.8	17.8	11.7	-2.2	16.1	9.2
4/29/2002	43.0	61.0	48.4	30.0	58.0	39.5	6.1	16.1	9.1	-1.1	14.4	4.2
4/30/2002	39.0	59.0	46.5	28.0	48.0	37.0	3.9	15.0	8.1	-2.2	8.9	2.8
5/1/2002	33.0	64.0	48.6	26.0	37.0	31.4	0.6	17.8	9.2	-3.3	2.8	-0.3
5/2/2002	48.0	73.0	56.5	27.0	62.0	48.3	8.9	22.8	13.6	-2.8	16.7	9.1
5/3/2002	43.0	68.0	52.8	23.0	51.0	30.6	6.1	20.0	11.6	-5.0	10.6	-0.8
5/4/2002	32.0	63.0	47.6	24.0	35.0	29.4	0.0	17.2	8.7	-4.4	1.7	-1.4
5/5/2002	38.0	72.0	55.8	27.0	44.0	36.9	3.3	22.2	13.2	-2.8	6.7	2.7
5/6/2002	42.0	72.0	58.8	39.0	52.0	45.5	5.6	22.2	14.9	3.9	11.1	7.5
5/7/2002	59.0	76.0	64.8	52.0	62.0	55.6	15.0	24.4	18.2	11.1	16.7	13.1
5/8/2002	50.0	72.0	60.8	44.0	60.0	48.3	10.0	22.2	16.0	6.7	15.6	9.1
5/9/2002	48.0	64.0	54.5	46.0	57.0	51.3	8.9	17.8	12.5	7.8	13.9	10.7
5/10/2002	52.0	69.0	57.7	25.0	55.0	47.6	11.1	20.6	14.3	-3.9	12.8	8.7
5/11/2002	39.0	68.0	55.0	24.0	38.0	31.8	3.9	20.0	12.8	-4.4	3.3	-0.1
5/12/2002	51.0	63.0	55.6	36.0	57.0	50.1	10.6	17.2	13.1	2.2	13.9	10.1
5/13/2002	57.0	67.0	60.5	54.0	64.0	59.6	13.9	19.4	15.8	12.2	17.8	15.3
5/14/2002	43.0	57.0	49.4	35.0	53.0	41.1	6.1	13.9	9.7	1.7	11.7	5.1
5/15/2002	43.0	69.0	52.9	32.0	41.0	36.4	6.1	20.6	11.6	0.0	5.0	2.4
5/16/2002	39.0	77.0	57.0	36.0	52.0	43.0	3.9	25.0	13.9	2.2	11.1	6.1
5/17/2002	58.0	73.0	64.7	40.0	59.0	51.8	14.4	22.8	18.2	4.4	15.0	11.0
5/18/2002	39.0	60.0	46.5	32.0	46.0	39.7	3.9	15.6	8.1	0.0	7.8	4.3
5/19/2002	38.0	54.0	45.2	24.0	37.0	31.0	3.3	12.2	7.3	-4.4	2.8	-0.6
5/20/2002	37.0	52.0	44.4	27.0	38.0	33.1	2.8	11.1	6.9	-2.8	3.3	0.6
5/21/2002	33.0	54.0	43.9	28.0	37.0	32.5	0.6	12.2	6.6	-2.2	2.8	0.3
5/22/2002	33.0	66.0	48.5	31.0	39.0	34.0	0.6	18.9	9.2	-0.6	3.9	1.1
5/23/2002	38.0	76.0	56.2	34.0	45.0	39.1	3.3	24.4	13.4	1.1	7.2	3.9
5/24/2002	47.0	80.0	63.8	38.0	59.0	48.9	8.3	26.7	17.7	3.3	15.0	9.4
5/25/2002	46.0	68.0	58.0	36.0	59.0	43.6	7.8	20.0	14.4	2.2	15.0	6.4
5/26/2002	59.0	64.0	61.7	48.0	54.0	51.5	15.0	17.8	16.5	8.9	12.2	10.8
5/27/2002	Bad or missing data											
5/28/2002	Bad or missing data											
5/29/2002	72.0	76.0	74.2	64.0	66.0	64.8	22.2	24.4	23.4	17.8	18.9	18.2

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
5/30/2002	63.0	81.0	69.6	60.0	67.0	63.6	17.2	27.2	20.9	15.6	19.4	17.6
5/31/2002	61.0	86.0	66.7	41.0	67.0	61.4	16.1	30.0	19.3	5.0	19.4	16.3
6/1/2002	59.0	85.0	67.3	32.0	61.0	53.4	15.0	29.4	19.6	0.0	16.1	11.9
6/2/2002	55.0	77.0	66.6	37.0	57.0	48.1	12.8	25.0	19.2	2.8	13.9	8.9
6/3/2002	47.0	69.0	59.6	39.0	45.0	41.2	8.3	20.6	15.3	3.9	7.2	5.1
6/4/2002	50.0	73.0	62.9	42.0	63.0	50.8	10.0	22.8	17.2	5.6	17.2	10.4
6/5/2002	66.0	87.0	72.7	60.0	72.0	65.2	18.9	30.6	22.6	15.6	22.2	18.4
6/6/2002	57.0	72.0	64.2	55.0	68.0	61.9	13.9	22.2	17.9	12.8	20.0	16.6
6/7/2002	52.0	74.0	60.4	50.0	56.0	52.9	11.1	23.3	15.8	10.0	13.3	11.6
6/8/2002	51.0	75.0	60.4	46.0	56.0	49.3	10.6	23.9	15.8	7.8	13.3	9.6
6/9/2002	55.0	86.0	69.0	48.0	66.0	56.0	12.8	30.0	20.6	8.9	18.9	13.3
6/10/2002	60.0	84.0	70.7	58.0	66.0	60.9	15.6	28.9	21.5	14.4	18.9	16.1
6/11/2002	61.0	88.0	71.1	60.0	69.0	63.4	16.1	31.1	21.7	15.6	20.6	17.4
6/12/2002	67.0	83.0	74.6	62.0	72.0	67.0	19.4	28.3	23.7	16.7	22.2	19.4
6/13/2002	63.0	77.0	69.2	61.0	67.0	63.8	17.2	25.0	20.7	16.1	19.4	17.7
6/14/2002	59.0	70.0	61.9	57.0	64.0	58.6	15.0	21.1	16.6	13.9	17.8	14.8
6/15/2002	57.0	69.0	60.5	41.0	59.0	55.8	13.9	20.6	15.8	5.0	15.0	13.2
6/16/2002	56.0	72.0	63.2	48.0	57.0	52.3	13.3	22.2	17.3	8.9	13.9	11.3
6/17/2002	50.0	76.0	58.4	39.0	55.0	49.4	10.0	24.4	14.7	3.9	12.8	9.7
6/18/2002	46.0	76.0	58.3	46.0	58.0	50.6	7.8	24.4	14.6	7.8	14.4	10.3
6/19/2002	54.0	81.0	66.4	51.0	60.0	54.3	12.2	27.2	19.1	10.6	15.6	12.4
6/20/2002	57.0	83.0	70.7	55.0	63.0	58.8	13.9	28.3	21.5	12.8	17.2	14.9
6/21/2002	61.0	84.0	73.0	59.0	65.0	61.7	16.1	28.9	22.8	15.0	18.3	16.5
6/22/2002	62.0	86.0	72.4	60.0	67.0	63.0	16.7	30.0	22.4	15.6	19.4	17.2
6/23/2002	66.0	89.0	77.6	61.0	67.0	64.5	18.9	31.7	25.3	16.1	19.4	18.1
6/24/2002	72.0	86.0	76.5	64.0	72.0	67.3	22.2	30.0	24.7	17.8	22.2	19.6
6/25/2002	70.0	88.0	76.3	68.0	72.0	70.0	21.1	31.1	24.6	20.0	22.2	21.1
6/26/2002	69.0	89.0	77.5	68.0	73.0	70.5	20.6	31.7	25.3	20.0	22.8	21.4
6/27/2002	72.0	85.0	77.8	66.0	72.0	69.4	22.2	29.4	25.4	18.9	22.2	20.8
6/28/2002	68.0	82.0	73.6	62.0	70.0	65.7	20.0	27.8	23.1	16.7	21.1	18.7
6/29/2002	58.0	84.0	69.8	56.0	70.0	61.1	14.4	28.9	21.0	13.3	21.1	16.2
6/30/2002	63.0	86.0	71.8	60.0	67.0	63.4	17.2	30.0	22.1	15.6	19.4	17.4
7/1/2002	62.0	88.0	74.6	61.0	72.0	65.3	16.7	31.1	23.7	16.1	22.2	18.5
7/2/2002	68.0	93.0	79.8	66.0	75.0	70.6	20.0	33.9	26.6	18.9	23.9	21.4
7/3/2002	71.0	95.0	82.5	66.0	76.0	71.4	21.7	35.0	28.1	18.9	24.4	21.9
7/4/2002	71.0	95.0	84.1	67.0	74.0	70.2	21.7	35.0	28.9	19.4	23.3	21.2
7/5/2002	67.0	89.0	76.3	46.0	71.0	56.9	19.4	31.7	24.6	7.8	21.7	13.8
7/6/2002	59.0	81.0	69.8	48.0	57.0	53.0	15.0	27.2	21.0	8.9	13.9	11.7
7/7/2002	54.0	82.0	66.6	52.0	63.0	55.9	12.2	27.8	19.2	11.1	17.2	13.3
7/8/2002	57.0	91.0	71.8	46.0	65.0	58.5	13.9	32.8	22.1	7.8	18.3	14.7
7/9/2002	65.0	84.0	72.9	57.0	72.0	65.1	18.3	28.9	22.7	13.9	22.2	18.4
7/10/2002	66.0	79.0	71.5	33.0	70.0	54.5	18.9	26.1	21.9	0.6	21.1	12.5
7/11/2002	48.0	78.0	62.4	32.0	49.0	43.6	8.9	25.6	16.9	0.0	9.4	6.4
7/12/2002	47.0	80.0	64.1	42.0	49.0	46.2	8.3	26.7	17.8	5.6	9.4	7.9

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (^{o}F)	Max T (^{o}F)	Aver T (^{o}F)	Min T_d (^{o}F)	Max T_d (^{o}F)	Aver T_d (^{o}F)	Min T (^{o}C)	Max T (^{o}C)	Aver T (^{o}C)	Min T_d (^{o}C)	Max T_d (^{o}C)	Aver T_d (^{o}C)
7/13/2002	50.0	81.0	66.6	46.0	59.0	51.1	10.0	27.2	19.2	7.8	15.0	10.6
7/14/2002	62.0	80.0	70.6	57.0	65.0	60.5	16.7	26.7	21.4	13.9	18.3	15.8
7/15/2002	62.0	91.0	75.2	56.0	65.0	61.3	16.7	32.8	24.0	13.3	18.3	16.3
7/16/2002	66.0	89.0	77.5	44.0	61.0	54.6	18.9	31.7	25.3	6.7	16.1	12.6
7/17/2002	60.0	96.0	77.1	50.0	65.0	58.2	15.6	35.6	25.1	10.0	18.3	14.6
7/18/2002	70.0	91.0	80.3	64.0	73.0	66.7	21.1	32.8	26.8	17.8	22.8	19.3
7/19/2002	69.0	91.0	76.6	66.0	71.0	68.0	20.6	32.8	24.8	18.9	21.7	20.0
7/20/2002	67.0	85.0	74.1	42.0	70.0	57.3	19.4	29.4	23.4	5.6	21.1	14.1
7/21/2002	63.0	86.0	74.0	27.0	70.0	52.4	17.2	30.0	23.3	-2.8	21.1	11.3
7/22/2002	72.0	93.0	82.1	66.0	72.0	69.1	22.2	33.9	27.8	18.9	22.2	20.6
7/23/2002	71.0	91.0	78.1	65.0	72.0	69.0	21.7	32.8	25.6	18.3	22.2	20.6
7/24/2002	62.0	81.0	70.7	51.0	67.0	59.3	16.7	27.2	21.5	10.6	19.4	15.2
7/25/2002	64.0	78.0	69.7	55.0	62.0	58.6	17.8	25.6	20.9	12.8	16.7	14.8
7/26/2002	61.0	75.0	67.6	50.0	63.0	56.6	16.1	23.9	19.8	10.0	17.2	13.7
7/27/2002	65.0	78.0	69.5	62.0	71.0	66.3	18.3	25.6	20.8	16.7	21.7	19.1
7/28/2002	70.0	81.0	74.0	69.0	75.0	71.9	21.1	27.2	23.3	20.6	23.9	22.2
7/29/2002	72.0	92.0	79.5	72.0	76.0	73.1	22.2	33.3	26.4	22.2	24.4	22.8
7/30/2002	73.0	90.0	80.2	64.0	74.0	69.8	22.8	32.2	26.8	17.8	23.3	21.0
7/31/2002	65.0	90.0	76.6	64.0	68.0	66.1	18.3	32.2	24.8	17.8	20.0	18.9
8/1/2002	68.0	91.0	79.5	32.0	76.0	66.6	20.0	32.8	26.4	0.0	24.4	19.2
8/2/2002	68.0	95.0	75.8	32.0	74.0	63.5	20.0	35.0	24.3	0.0	23.3	17.5
8/3/2002	70.0	92.0	79.3	63.0	71.0	67.6	21.1	33.3	26.3	17.2	21.7	19.8
8/4/2002	64.0	93.0	77.8	60.0	70.0	64.4	17.8	33.9	25.4	15.6	21.1	18.0
8/5/2002	69.0	88.0	76.3	64.0	74.0	69.1	20.6	31.1	24.6	17.8	23.3	20.6
8/6/2002	64.0	77.0	71.0	46.0	72.0	54.3	17.8	25.0	21.7	7.8	22.2	12.4
8/7/2002	54.0	78.0	65.4	46.0	54.0	49.9	12.2	25.6	18.6	7.8	12.2	9.9
8/8/2002	53.0	80.0	65.5	47.0	54.0	50.7	11.7	26.7	18.6	8.3	12.2	10.4
8/9/2002	52.0	83.0	66.9	47.0	54.0	50.7	11.1	28.3	19.4	8.3	12.2	10.4
8/10/2002	52.0	89.0	70.1	51.0	61.0	54.5	11.1	31.7	21.2	10.6	16.1	12.5
8/11/2002	58.0	92.0	73.8	55.0	66.0	58.5	14.4	33.3	23.2	12.8	18.9	14.7
8/12/2002	62.0	96.0	76.6	57.0	67.0	61.5	16.7	35.6	24.8	13.9	19.4	16.4
8/13/2002	66.0	95.0	76.8	61.0	71.0	66.9	18.9	35.0	24.9	16.1	21.7	19.4
8/14/2002	67.0	94.0	79.5	62.0	72.0	67.4	19.4	34.4	26.4	16.7	22.2	19.7
8/15/2002	72.0	90.0	81.5	60.0	71.0	66.0	22.2	32.2	27.5	15.6	21.7	18.9
8/16/2002	69.0	90.0	77.4	68.0	73.0	69.9	20.6	32.2	25.2	20.0	22.8	21.1
8/17/2002	68.0	89.0	77.9	67.0	71.0	68.7	20.0	31.7	25.5	19.4	21.7	20.4
8/18/2002	66.0	93.0	76.6	66.0	72.0	68.3	18.9	33.9	24.8	18.9	22.2	20.2
8/19/2002	64.0	87.0	76.3	59.0	70.0	63.5	17.8	30.6	24.6	15.0	21.1	17.5
8/20/2002	69.0	81.0	74.8	52.0	70.0	63.6	20.6	27.2	23.8	11.1	21.1	17.6
8/21/2002	56.0	85.0	70.6	52.0	57.0	54.6	13.3	29.4	21.4	11.1	13.9	12.6
8/22/2002	69.0	91.0	78.2	53.0	73.0	63.5	20.6	32.8	25.7	11.7	22.8	17.5
8/23/2002	68.0	77.0	72.6	62.0	73.0	65.9	20.0	25.0	22.6	16.7	22.8	18.8
8/24/2002	68.0	83.0	72.8	66.0	72.0	68.9	20.0	28.3	22.7	18.9	22.2	20.5
8/25/2002	65.0	83.0	72.9	52.0	69.0	60.9	18.3	28.3	22.7	11.1	20.6	16.1

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

(Page 23 of 50)

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
8/26/2002	57.0	82.0	68.9	55.0	60.0	57.4	13.9	27.8	20.5	12.8	15.6	14.1
8/27/2002	59.0	84.0	70.9	57.0	63.0	59.9	15.0	28.9	21.6	13.9	17.2	15.5
8/28/2002	63.0	76.0	68.6	54.0	63.0	58.0	17.2	24.4	20.3	12.2	17.2	14.4
8/29/2002	57.0	65.0	61.1	53.0	63.0	56.2	13.9	18.3	16.2	11.7	17.2	13.4
8/30/2002	61.0	79.0	66.1	55.0	61.0	56.8	16.1	26.1	18.9	12.8	16.1	13.8
8/31/2002	55.0	84.0	67.4	54.0	61.0	57.4	12.8	28.9	19.7	12.2	16.1	14.1
9/1/2002	59.0	73.0	62.3	52.0	61.0	58.0	15.0	22.8	16.8	11.1	16.1	14.4
9/2/2002	60.0	77.0	65.3	59.0	61.0	60.4	15.6	25.0	18.5	15.0	16.1	15.8
9/3/2002	57.0	87.0	67.0	57.0	70.0	61.8	13.9	30.6	19.4	13.9	21.1	16.6
9/4/2002	67.0	87.0	77.5	49.0	71.0	61.7	19.4	30.6	25.3	9.4	21.7	16.5
9/5/2002	58.0	82.0	69.7	51.0	59.0	55.4	14.4	27.8	20.9	10.6	15.0	13.0
9/6/2002	49.0	82.0	65.7	39.0	54.0	48.3	9.4	27.8	18.7	3.9	12.2	9.1
9/7/2002	50.0	86.0	66.9	47.0	54.0	50.2	10.0	30.0	19.4	8.3	12.2	10.1
9/8/2002	50.0	90.0	68.2	40.0	55.0	50.0	10.0	32.2	20.1	4.4	12.8	10.0
9/9/2002	50.0	94.0	69.3	46.0	63.0	51.3	10.0	34.4	20.7	7.8	17.2	10.7
9/10/2002	55.0	96.0	72.6	50.0	61.0	56.1	12.8	35.6	22.6	10.0	16.1	13.4
9/11/2002	61.0	80.0	68.3	43.0	59.0	52.0	16.1	26.7	20.2	6.1	15.0	11.1
9/12/2002	49.0	78.0	63.1	37.0	48.0	44.6	9.4	25.6	17.3	2.8	8.9	7.0
9/13/2002	45.0	85.0	62.4	39.0	52.0	46.3	7.2	29.4	16.9	3.9	11.1	7.9
9/14/2002	50.0	85.0	65.8	47.0	70.0	54.4	10.0	29.4	18.8	8.3	21.1	12.4
9/15/2002	71.0	78.0	73.3	69.0	73.0	70.5	21.7	25.6	22.9	20.6	22.8	21.4
9/16/2002	64.0	76.0	69.8	60.0	70.0	66.4	17.8	24.4	21.0	15.6	21.1	19.1
9/17/2002	57.0	81.0	65.2	53.0	63.0	57.8	13.9	27.2	18.4	11.7	17.2	14.3
9/18/2002	52.0	80.0	63.6	51.0	61.0	54.5	11.1	26.7	17.6	10.6	16.1	12.5
9/19/2002	61.0	74.0	67.3	55.0	67.0	61.4	16.1	23.3	19.6	12.8	19.4	16.3
9/20/2002	66.0	83.0	73.0	63.0	69.0	65.7	18.9	28.3	22.8	17.2	20.6	18.7
9/21/2002	71.0	79.0	73.9	66.0	72.0	69.2	21.7	26.1	23.3	18.9	22.2	20.7
9/22/2002	66.0	72.0	69.8	66.0	71.0	68.9	18.9	22.2	21.0	18.9	21.7	20.5
9/23/2002	56.0	72.0	64.2	41.0	68.0	56.2	13.3	22.2	17.9	5.0	20.0	13.4
9/24/2002	46.0	73.0	54.9	44.0	57.0	47.8	7.8	22.8	12.7	6.7	13.9	8.8
9/25/2002	49.0	67.0	54.2	48.0	53.0	50.4	9.4	19.4	12.3	8.9	11.7	10.2
9/26/2002	55.0	62.0	58.5	53.0	56.0	54.7	12.8	16.7	14.7	11.7	13.3	12.6
9/27/2002	55.0	72.0	61.8	53.0	70.0	59.7	12.8	22.2	16.6	11.7	21.1	15.4
9/28/2002	61.0	74.0	67.7	49.0	70.0	56.7	16.1	23.3	19.8	9.4	21.1	13.7
9/29/2002	44.0	70.0	53.8	42.0	56.0	47.2	6.7	21.1	12.1	5.6	13.3	8.4
9/30/2002	50.0	72.0	58.3	48.0	61.0	53.7	10.0	22.2	14.6	8.9	16.1	12.1
10/1/2002	54.0	80.0	64.1	53.0	65.0	58.1	12.2	26.7	17.8	11.7	18.3	14.5
10/2/2002	59.0	84.0	67.4	59.0	67.0	62.7	15.0	28.9	19.7	15.0	19.4	17.1
10/3/2002	63.0	79.0	68.4	60.0	67.0	63.4	17.2	26.1	20.2	15.6	19.4	17.4
10/4/2002	64.0	70.0	66.2	60.0	66.0	62.3	17.8	21.1	19.0	15.6	18.9	16.8
10/5/2002	63.0	74.0	70.3	48.0	69.0	60.9	17.2	23.3	21.3	8.9	20.6	16.1
10/6/2002	45.0	68.0	54.7	44.0	49.0	46.4	7.2	20.0	12.6	6.7	9.4	8.0
10/7/2002	57.0	67.0	64.0	37.0	57.0	48.6	13.9	19.4	17.8	2.8	13.9	9.2
10/8/2002	42.0	60.0	50.9	33.0	43.0	36.6	5.6	15.6	10.5	0.6	6.1	2.6

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
10/9/2002	41.0	62.0	50.4	39.0	49.0	43.4	5.0	16.7	10.2	3.9	9.4	6.3
10/10/2002	52.0	63.0	58.3	49.0	61.0	55.2	11.1	17.2	14.6	9.4	16.1	12.9
10/11/2002	55.0	61.0	57.4	55.0	60.0	56.4	12.8	16.1	14.1	12.8	15.6	13.6
10/12/2002	55.0	64.0	58.6	55.0	61.0	57.1	12.8	17.8	14.8	12.8	16.1	13.9
10/13/2002	54.0	61.0	59.1	52.0	59.0	56.4	12.2	16.1	15.1	11.1	15.0	13.6
10/14/2002	39.0	55.0	47.9	30.0	52.0	37.5	3.9	12.8	8.8	-1.1	11.1	3.1
10/15/2002	33.0	56.0	41.3	32.0	45.0	36.4	0.6	13.3	5.2	0.0	7.2	2.4
10/16/2002	48.0	55.0	50.6	45.0	52.0	49.0	8.9	12.8	10.3	7.2	11.1	9.4
10/17/2002	46.0	56.0	50.0	37.0	49.0	44.2	7.8	13.3	10.0	2.8	9.4	6.8
10/18/2002	35.0	56.0	44.7	34.0	43.0	37.7	1.7	13.3	7.1	1.1	6.1	3.2
10/19/2002	46.0	52.0	48.5	37.0	50.0	43.9	7.8	11.1	9.2	2.8	10.0	6.6
10/20/2002	35.0	57.0	44.0	35.0	49.0	39.7	1.7	13.9	6.7	1.7	9.4	4.3
10/21/2002	37.0	55.0	43.5	30.0	41.0	36.4	2.8	12.8	6.4	-1.1	5.0	2.4
10/22/2002	31.0	57.0	41.0	30.0	43.0	34.6	-0.6	13.9	5.0	-1.1	6.1	1.4
10/23/2002	39.0	52.0	45.1	31.0	43.0	37.2	3.9	11.1	7.3	-0.6	6.1	2.9
10/24/2002	30.0	43.0	35.8	28.0	37.0	32.0	-1.1	6.1	2.1	-2.2	2.8	0.0
10/25/2002	36.0	43.0	39.7	35.0	43.0	38.9	2.2	6.1	4.3	1.7	6.1	3.8
10/26/2002	43.0	56.0	49.2	42.0	52.0	47.3	6.1	13.3	9.6	5.6	11.1	8.5
10/27/2002	48.0	57.0	51.8	35.0	52.0	43.6	8.9	13.9	11.0	1.7	11.1	6.4
10/28/2002	41.0	53.0	46.8	32.0	40.0	36.3	5.0	11.7	8.2	0.0	4.4	2.4
10/29/2002	29.0	44.0	36.6	26.0	36.0	31.3	-1.7	6.7	2.6	-3.3	2.2	-0.4
10/30/2002	33.0	36.0	34.1	33.0	34.0	33.8	0.6	2.2	1.2	0.6	1.1	1.0
10/31/2002	30.0	45.0	35.8	30.0	36.0	33.5	-1.1	7.2	2.1	-1.1	2.2	0.8
11/1/2002	30.0	46.0	35.4	22.0	36.0	31.5	-1.1	7.8	1.9	-5.6	2.2	-0.3
11/2/2002	33.0	45.0	37.3	24.0	32.0	28.4	0.6	7.2	2.9	-4.4	0.0	-2.0
11/3/2002	36.0	43.0	39.6	25.0	34.0	30.5	2.2	6.1	4.2	-3.9	1.1	-0.8
11/4/2002	28.0	43.0	34.6	27.0	39.0	32.3	-2.2	6.1	1.4	-2.8	3.9	0.2
11/5/2002	32.0	46.0	40.9	28.0	40.0	34.0	0.0	7.8	4.9	-2.2	4.4	1.1
11/6/2002	38.0	47.0	42.8	31.0	45.0	40.3	3.3	8.3	6.0	-0.6	7.2	4.6
11/7/2002	34.0	45.0	41.1	9.0	37.0	26.8	1.1	7.2	5.1	-12.8	2.8	-2.9
11/8/2002	28.0	62.0	40.4	22.0	40.0	30.8	-2.2	16.7	4.7	-5.6	4.4	-0.7
11/9/2002	33.0	62.0	45.6	33.0	43.0	38.4	0.6	16.7	7.6	0.6	6.1	3.6
11/10/2002	52.0	65.0	58.3	42.0	59.0	50.6	11.1	18.3	14.6	5.6	15.0	10.3
11/11/2002	52.0	69.0	64.6	48.0	63.0	58.3	11.1	20.6	18.1	8.9	17.2	14.6
11/12/2002	43.0	54.0	46.2	43.0	49.0	45.8	6.1	12.2	7.9	6.1	9.4	7.7
11/13/2002	45.0	48.0	46.1	36.0	47.0	42.1	7.2	8.9	7.8	2.2	8.3	5.6
11/14/2002	34.0	54.0	40.5	34.0	44.0	37.5	1.1	12.2	4.7	1.1	6.7	3.1
11/15/2002	35.0	56.0	45.2	35.0	44.0	39.7	1.7	13.3	7.3	1.7	6.7	4.3
11/16/2002	37.0	49.0	40.4	36.0	43.0	39.0	2.8	9.4	4.7	2.2	6.1	3.9
11/17/2002	37.0	42.0	39.3	37.0	42.0	38.7	2.8	5.6	4.1	2.8	5.6	3.7
11/18/2002	37.0	45.0	39.5	26.0	39.0	31.9	2.8	7.2	4.2	-3.3	3.9	-0.1
11/19/2002	30.0	39.0	34.6	26.0	36.0	30.2	-1.1	3.9	1.4	-3.3	2.2	-1.0
11/20/2002	35.0	44.0	37.6	35.0	40.0	36.8	1.7	6.7	3.1	1.7	4.4	2.7
11/21/2002	30.0	46.0	39.1	30.0	45.0	38.3	-1.1	7.8	3.9	-1.1	7.2	3.5

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
11/22/2002	43.0	47.0	45.6	36.0	47.0	44.1	6.1	8.3	7.6	2.2	8.3	6.7
11/23/2002	33.0	43.0	37.3	21.0	37.0	27.3	0.6	6.1	2.9	-6.1	2.8	-2.6
11/24/2002	35.0	50.0	41.1	28.0	34.0	31.2	1.7	10.0	5.1	-2.2	1.1	-0.4
11/25/2002	30.0	46.0	38.1	30.0	37.0	33.7	-1.1	7.8	3.4	-1.1	2.8	0.9
11/26/2002	28.0	44.0	37.1	21.0	36.0	28.1	-2.2	6.7	2.8	-6.1	2.2	-2.2
11/27/2002	28.0	38.0	33.0	18.0	34.0	28.3	-2.2	3.3	0.6	-7.8	1.1	-2.1
11/28/2002	19.0	33.0	26.0	14.0	20.0	17.7	-7.2	0.6	-3.3	-10.0	-6.7	-7.9
11/29/2002	27.0	41.0	32.7	19.0	27.0	22.4	-2.8	5.0	0.4	-7.2	-2.8	-5.3
11/30/2002	30.0	47.0	38.7	24.0	34.0	27.8	-1.1	8.3	3.7	-4.4	1.1	-2.3
12/1/2002	25.0	39.0	29.2	9.0	33.0	19.9	-3.9	3.9	-1.6	-12.8	0.6	-6.7
12/2/2002	23.0	34.0	28.3	8.0	25.0	14.6	-5.0	1.1	-2.1	-13.3	-3.9	-9.7
12/3/2002	10.0	34.0	21.3	-4.0	28.0	9.8	-12.2	1.1	-5.9	-20.0	-2.2	-12.3
12/4/2002	9.0	27.0	17.1	0.0	16.0	7.8	-12.8	-2.8	-8.3	-17.8	-8.9	-13.4
12/5/2002	21.0	25.0	23.5	15.0	25.0	21.0	-6.1	-3.9	-4.7	-9.4	-3.9	-6.1
12/6/2002	18.0	30.0	25.4	16.0	25.0	20.6	-7.8	-1.1	-3.7	-8.9	-3.9	-6.3
12/7/2002	6.0	32.0	18.0	1.0	16.0	10.4	-14.4	0.0	-7.8	-17.2	-8.9	-12.0
12/8/2002	17.0	38.0	26.6	14.0	32.0	21.7	-8.3	3.3	-3.0	-10.0	0.0	-5.7
12/9/2002	4.0	31.0	18.0	0.0	22.0	6.2	-15.6	-0.6	-7.8	-17.8	-5.6	-14.3
12/10/2002	7.0	25.0	14.2	1.0	17.0	7.0	-13.9	-3.9	-9.9	-17.2	-8.3	-13.9
12/11/2002	13.0	34.0	25.1	10.0	34.0	22.9	-10.6	1.1	-3.8	-12.2	1.1	-5.1
12/12/2002	33.0	38.0	34.7	33.0	37.0	34.7	0.6	3.3	1.5	0.6	2.8	1.5
12/13/2002	33.0	37.0	34.8	33.0	36.0	34.5	0.6	2.8	1.6	0.6	2.2	1.4
12/14/2002	32.0	40.0	35.3	32.0	38.0	34.5	0.0	4.4	1.8	0.0	3.3	1.4
12/15/2002	36.0	41.0	38.9	30.0	35.0	31.9	2.2	5.0	3.8	-1.1	1.7	-0.1
12/16/2002	27.0	38.0	34.1	17.0	36.0	28.5	-2.8	3.3	1.2	-8.3	2.2	-1.9
12/17/2002	18.0	32.0	23.0	9.0	17.0	12.9	-7.8	0.0	-5.0	-12.8	-8.3	-10.6
12/18/2002	10.0	33.0	21.5	7.0	19.0	13.5	-12.2	0.6	-5.8	-13.9	-7.2	-10.3
12/19/2002	25.0	41.0	31.1	15.0	34.0	23.0	-3.9	5.0	-0.5	-9.4	1.1	-5.0
12/20/2002	37.0	54.0	45.4	30.0	54.0	42.4	2.8	12.2	7.4	-1.1	12.2	5.8
12/21/2002	34.0	41.0	37.3	26.0	34.0	30.6	1.1	5.0	2.9	-3.3	1.1	-0.8
12/22/2002	25.0	43.0	33.8	25.0	40.0	30.5	-3.9	6.1	1.0	-3.9	4.4	-0.8
12/23/2002	30.0	41.0	36.0	24.0	39.0	26.6	-1.1	5.0	2.2	-4.4	3.9	-3.0
12/24/2002	30.0	37.0	32.9	17.0	27.0	21.4	-1.1	2.8	0.5	-8.3	-2.8	-5.9
12/25/2002	28.0	34.0	30.3	22.0	32.0	29.0	-2.2	1.1	-0.9	-5.6	0.0	-1.7
12/26/2002	28.0	34.0	30.8	21.0	28.0	24.8	-2.2	1.1	-0.7	-6.1	-2.2	-4.0
12/27/2002	25.0	33.0	29.5	21.0	27.0	24.1	-3.9	0.6	-1.4	-6.1	-2.8	-4.4
12/28/2002	11.0	34.0	21.8	9.0	30.0	19.1	-11.7	1.1	-5.7	-12.8	-1.1	-7.2
12/29/2002	28.0	41.0	34.1	25.0	34.0	30.6	-2.2	5.0	1.2	-3.9	1.1	-0.8
12/30/2002	21.0	37.0	27.6	21.0	30.0	24.6	-6.1	2.8	-2.4	-6.1	-1.1	-4.1
12/31/2002	35.0	42.0	27.6	30.0	39.0	24.6	1.7	5.6	-2.4	-1.1	3.9	-4.1
1/1/2003	35.1	41.0	36.5	32.0	39.0	36.5	1.7	5.0	2.5	0.0	3.9	2.5
1/2/2003	28.0	37.0	30.9	23.0	36.0	29.1	-2.2	2.8	-0.6	-5.0	2.2	-1.6
1/3/2003	26.6	32.0	29.8	26.6	32.0	29.7	-3.0	0.0	-1.2	-3.0	0.0	-1.3
1/4/2003	30.0	33.8	31.1	28.4	32.0	30.4	-1.1	1.0	-0.5	-2.0	0.0	-0.9

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
1/5/2003	26.1	32.0	28.9	21.9	28.9	25.3	-3.3	0.0	-1.7	-5.6	-1.7	-3.7
1/6/2003	26.6	30.9	28.8	26.6	30.2	28.4	-3.0	-0.6	-1.8	-3.0	-1.0	-2.0
1/7/2003	17.6	30.2	24.6	9.0	30.2	18.5	-8.0	-1.0	-4.1	-12.8	-1.0	-7.5
1/8/2003	25.0	39.0	32.7	18.0	36.0	29.7	-3.9	3.9	0.4	-7.8	2.2	-1.3
1/9/2003	35.1	45.0	41.7	33.8	37.0	34.9	1.7	7.2	5.4	1.0	2.8	1.6
1/10/2003	28.4	41.0	34.3	12.9	36.0	27.9	-2.0	5.0	1.3	-10.6	2.2	-2.3
1/11/2003	21.0	28.9	24.4	6.1	24.8	14.4	-6.1	-1.7	-4.2	-14.4	-4.0	-9.8
1/12/2003	21.0	30.0	23.9	10.0	18.0	13.8	-6.1	-1.1	-4.5	-12.2	-7.8	-10.1
1/13/2003	12.2	33.1	23.0	6.8	19.0	14.7	-11.0	0.6	-5.0	-14.0	-7.2	-9.6
1/14/2003	15.8	24.1	20.1	6.1	16.0	10.6	-9.0	-4.4	-6.6	-14.4	-8.9	-11.9
1/15/2003	18.0	26.1	21.2	7.0	19.9	14.2	-7.8	-3.3	-6.0	-13.9	-6.7	-9.9
1/16/2003	14.0	23.0	18.0	8.1	12.0	10.8	-10.0	-5.0	-7.8	-13.3	-11.1	-11.8
1/17/2003	8.6	24.1	18.0	1.4	19.9	12.6	-13.0	-4.4	-7.8	-17.0	-6.7	-10.8
1/18/2003	-0.4	19.9	8.6	-5.8	9.0	0.1	-18.0	-6.7	-13.0	-21.0	-12.8	-17.7
1/19/2003	10.4	24.1	16.5	6.1	15.8	10.4	-12.0	-4.4	-8.6	-14.4	-9.0	-12.0
1/20/2003	17.6	25.0	22.6	1.4	25.0	10.9	-8.0	-3.9	-5.2	-17.0	-3.9	-11.7
1/21/2003	3.0	23.0	13.8	0.0	10.0	2.3	-16.1	-5.0	-10.1	-17.8	-12.2	-16.5
1/22/2003	8.1	19.0	14.2	-2.2	9.0	2.7	-13.3	-7.2	-9.9	-19.0	-12.8	-16.3
1/23/2003	3.9	17.1	11.1	-5.1	12.2	0.5	-15.6	-8.3	-11.6	-20.6	-11.0	-17.5
1/24/2003	6.8	28.9	13.8	-0.9	8.6	1.2	-14.0	-1.7	-10.1	-18.3	-13.0	-17.1
1/25/2003	18.0	27.0	21.4	9.0	17.6	12.0	-7.8	-2.8	-5.9	-12.8	-8.0	-11.1
1/26/2003	18.0	27.0	25.0	14.0	27.0	19.4	-7.8	-2.8	-3.9	-10.0	-2.8	-7.0
1/27/2003	3.2	24.8	13.1	-5.8	24.8	3.4	-16.0	-4.0	-10.5	-21.0	-4.0	-15.9
1/28/2003	1.4	21.2	9.7	-2.9	15.8	4.5	-17.0	-6.0	-12.4	-19.4	-9.0	-15.3
1/29/2003	21.0	33.1	24.4	15.1	30.9	23.2	-6.1	0.6	-4.2	-9.4	-0.6	-4.9
1/30/2003	8.6	32.0	21.6	8.6	24.1	18.0	-13.0	0.0	-5.8	-13.0	-4.4	-7.8
1/31/2003	14.0	33.1	24.8	14.0	33.1	23.7	-10.0	0.6	-4.0	-10.0	0.6	-4.6
2/1/2003	30.2	37.4	33.3	30.9	37.4	33.4	-1.0	3.0	0.7	-0.6	3.0	0.8
2/2/2003	35.1	37.9	36.5	25.0	34.0	30.6	1.7	3.3	2.5	-3.9	1.1	-0.8
2/3/2003	30.0	41.0	35.1	24.8	30.2	27.0	-1.1	5.0	1.7	-4.0	-1.0	-2.8
2/4/2003	33.8	42.1	38.8	25.0	39.2	33.1	1.0	5.6	3.8	-3.9	4.0	0.6
2/5/2003	24.1	34.0	27.9	6.1	26.1	12.4	-4.4	1.1	-2.3	-14.4	-3.3	-10.9
2/6/2003	14.0	30.9	21.6	6.1	24.8	12.0	-10.0	-0.6	-5.8	-14.4	-4.0	-11.1
2/7/2003	26.1	32.0	28.6	17.6	30.2	26.1	-3.3	0.0	-1.9	-8.0	-1.0	-3.3
2/8/2003	10.9	27.0	20.3	1.4	18.0	8.1	-11.7	-2.8	-6.5	-17.0	-7.8	-13.3
2/9/2003	10.0	32.0	21.7	1.0	25.0	12.0	-12.2	0.0	-5.7	-17.2	-3.9	-11.1
2/10/2003	21.9	32.0	28.4	18.0	30.9	25.2	-5.6	0.0	-2.0	-7.8	-0.6	-3.8
2/11/2003	5.0	32.0	20.3	-0.9	32.0	12.6	-15.0	0.0	-6.5	-18.3	0.0	-10.8
2/12/2003	8.1	27.0	18.5	-2.9	21.0	8.6	-13.3	-2.8	-7.5	-19.4	-6.1	-13.0
2/13/2003	14.0	21.9	18.0	1.0	8.1	3.0	-10.0	-5.6	-7.8	-17.2	-13.3	-16.1
2/14/2003	6.1	30.0	17.6	1.9	12.2	6.8	-14.4	-1.1	-8.0	-16.7	-11.0	-14.0
2/15/2003	15.1	25.0	20.7	-7.1	15.1	7.5	-9.4	-3.9	-6.3	-21.7	-9.4	-13.6
2/16/2003	6.8	16.0	10.4	-11.2	12.0	-6.7	-14.0	-8.9	-12.0	-24.0	-11.1	-21.5
2/17/2003	14.0	24.8	18.9	12.2	23.0	17.4	-10.0	-4.0	-7.3	-11.0	-5.0	-8.1

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
2/18/2003	19.4	32.0	24.3	17.1	30.0	21.6	-7.0	0.0	-4.3	-8.3	-1.1	-5.8
2/19/2003	30.0	37.9	32.7	26.1	32.0	28.0	-1.1	3.3	0.4	-3.3	0.0	-2.2
2/20/2003	34.0	45.0	37.8	21.0	35.1	28.9	1.1	7.2	3.2	-6.1	1.7	-1.7
2/21/2003	14.0	41.0	26.6	12.0	28.9	21.6	-10.0	5.0	-3.0	-11.1	-1.7	-5.8
2/22/2003	34.0	41.0	37.4	28.9	41.0	36.9	1.1	5.0	3.0	-1.7	5.0	2.7
2/23/2003	30.0	41.0	36.7	18.0	41.0	33.8	-1.1	5.0	2.6	-7.8	5.0	1.0
2/24/2003	21.0	30.0	24.3	10.4	25.0	17.4	-6.1	-1.1	-4.3	-12.0	-3.9	-8.1
2/25/2003	21.0	30.0	24.4	3.2	26.1	14.9	-6.1	-1.1	-4.2	-16.0	-3.3	-9.5
2/26/2003	15.1	21.9	18.3	1.9	16.0	6.6	-9.4	-5.6	-7.6	-16.7	-8.9	-14.1
2/27/2003	21.0	28.9	23.5	15.8	21.9	18.5	-6.1	-1.7	-4.7	-9.0	-5.6	-7.5
2/28/2003	28.0	34.0	29.7	21.0	27.0	23.9	-2.2	1.1	-1.3	-6.1	-2.8	-4.5
3/1/2003	28.9	34.0	32.0	25.0	34.0	29.8	-1.7	1.1	0.0	-3.9	1.1	-1.2
3/2/2003	33.8	42.1	35.6	32.0	37.9	35.1	1.0	5.6	2.0	0.0	3.3	1.7
3/3/2003	6.1	37.9	17.8	-9.9	32.0	1.0	-14.4	3.3	-7.9	-23.3	0.0	-17.2
3/4/2003	12.0	35.6	21.7	-4.0	24.8	7.5	-11.1	2.0	-5.7	-20.0	-4.0	-13.6
3/5/2003	32.0	41.0	35.2	25.0	37.9	32.2	0.0	5.0	1.8	-3.9	3.3	0.1
3/6/2003	23.0	39.2	29.7	15.1	37.4	27.0	-5.0	4.0	-1.3	-9.4	3.0	-2.8
3/7/2003	1.4	30.0	15.4	-0.9	17.6	8.1	-17.0	-1.1	-9.2	-18.3	-8.0	-13.3
3/8/2003	14.0	43.0	26.8	12.2	32.0	21.7	-10.0	6.1	-2.9	-11.0	0.0	-5.7
3/9/2003	24.8	43.0	36.9	5.0	36.0	25.5	-4.0	6.1	2.7	-15.0	2.2	-3.6
3/10/2003	17.1	27.0	21.0	1.4	9.0	5.2	-8.3	-2.8	-6.1	-17.0	-12.8	-14.9
3/11/2003	10.0	37.0	22.5	6.1	30.2	14.0	-12.2	2.8	-5.3	-14.4	-1.0	-10.0
3/12/2003	26.1	45.0	32.9	26.1	37.0	30.7	-3.3	7.2	0.5	-3.3	2.8	-0.7
3/13/2003	32.0	41.0	36.1	30.2	37.0	35.6	0.0	5.0	2.3	-1.0	2.8	2.0
3/14/2003	15.8	36.0	25.9	8.1	30.9	16.7	-9.0	2.2	-3.4	-13.3	-0.6	-8.5
3/15/2003	26.1	50.0	35.8	19.0	36.0	27.7	-3.3	10.0	2.1	-7.2	2.2	-2.4
3/16/2003	28.0	61.0	41.9	28.0	52.0	37.8	-2.2	16.1	5.5	-2.2	11.1	3.2
3/17/2003	33.8	64.0	43.0	32.0	54.0	45.0	1.0	17.8	6.1	0.0	12.2	7.2
3/18/2003	35.1	57.9	44.8	34.0	46.9	40.3	1.7	14.4	7.1	1.1	8.3	4.6
3/19/2003	30.9	50.0	40.8	25.0	39.9	31.8	-0.6	10.0	4.9	-3.9	4.4	-0.1
3/20/2003	33.1	44.1	36.5	19.9	42.8	33.3	0.6	6.7	2.5	-6.7	6.0	0.7
3/21/2003	37.9	54.0	43.3	37.9	48.2	42.1	3.3	12.2	6.3	3.3	9.0	5.6
3/22/2003	43.0	55.0	48.0	30.2	48.0	39.0	6.1	12.8	8.9	-1.0	8.9	3.9
3/23/2003	37.0	55.0	44.8	32.0	37.4	34.0	2.8	12.8	7.1	0.0	3.0	1.1
3/24/2003	30.0	60.1	43.5	30.0	41.0	35.2	-1.1	15.6	6.4	-1.1	5.0	1.8
3/25/2003	39.9	71.1	53.8	37.0	46.4	41.2	4.4	21.7	12.1	2.8	8.0	5.1
3/26/2003	42.8	66.0	51.1	41.0	48.0	45.0	6.0	18.9	10.6	5.0	8.9	7.2
3/27/2003	35.6	59.0	42.4	34.0	42.1	37.8	2.0	15.0	5.8	1.1	5.6	3.2
3/28/2003	44.1	62.1	53.2	34.0	52.0	40.8	6.7	16.7	11.8	1.1	11.1	4.9
3/29/2003	50.0	64.0	57.2	48.0	61.0	55.2	10.0	17.8	14.0	8.9	16.1	12.9
3/30/2003	30.2	50.0	36.5	26.6	50.0	33.8	-1.0	10.0	2.5	-3.0	10.0	1.0
3/31/2003	26.6	35.6	31.1	15.1	28.0	21.4	-3.0	2.0	-0.5	-9.4	-2.2	-5.9
4/1/2003	21.9	44.1	31.8	10.0	37.9	21.7	-5.6	6.7	-0.1	-12.2	3.3	-5.7
4/2/2003	39.0	77.0	48.6	37.0	50.0	42.6	3.9	25.0	9.2	2.8	10.0	5.9

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (^{o}F)	Max T (^{o}F)	Aver T (^{o}F)	Min T_d (^{o}F)	Max T_d (^{o}F)	Aver T_d (^{o}F)	Min T (^{o}C)	Max T (^{o}C)	Aver T (^{o}C)	Min T_d (^{o}C)	Max T_d (^{o}C)	Aver T_d (^{o}C)
4/3/2003	39.9	70.0	54.0	39.9	54.0	47.3	4.4	21.1	12.2	4.4	12.2	8.5
4/4/2003	43.0	61.0	47.1	42.1	50.0	43.9	6.1	16.1	8.4	5.6	10.0	6.6
4/5/2003	37.4	50.0	42.6	35.6	46.4	40.6	3.0	10.0	5.9	2.0	8.0	4.8
4/6/2003	30.0	48.0	37.9	14.0	35.1	20.3	-1.1	8.9	3.3	-10.0	1.7	-6.5
4/7/2003	30.0	39.9	32.4	19.0	30.9	26.8	-1.1	4.4	0.2	-7.2	-0.6	-2.9
4/8/2003	30.0	35.6	32.0	30.0	34.0	31.3	-1.1	2.0	0.0	-1.1	1.1	-0.4
4/9/2003	33.8	42.1	36.9	33.1	37.4	34.9	1.0	5.6	2.7	0.6	3.0	1.6
4/10/2003	37.0	61.0	45.0	28.0	37.0	33.1	2.8	16.1	7.2	-2.2	2.8	0.6
4/11/2003	39.0	55.9	43.0	26.1	46.0	39.6	3.9	13.3	6.1	-3.3	7.8	4.2
4/12/2003	44.1	68.0	51.6	30.2	45.0	39.7	6.7	20.0	10.9	-1.0	7.2	4.3
4/13/2003	36.0	60.1	49.1	19.4	36.0	27.7	2.2	15.6	9.5	-7.0	2.2	-2.4
4/14/2003	30.9	69.1	48.0	19.0	35.6	29.8	-0.6	20.6	8.9	-7.2	2.0	-1.2
4/15/2003	39.9	84.0	61.3	35.1	46.9	40.8	4.4	28.9	16.3	1.7	8.3	4.9
4/16/2003	48.9	82.9	65.5	39.2	48.0	44.6	9.4	28.3	18.6	4.0	8.9	7.0
4/17/2003	37.0	55.9	42.1	24.1	39.9	31.5	2.8	13.3	5.6	-4.4	4.4	-0.3
4/18/2003	36.0	42.8	38.8	21.9	41.0	31.1	2.2	6.0	3.8	-5.6	5.0	-0.5
4/19/2003	39.2	63.0	47.3	39.2	46.9	43.2	4.0	17.2	8.5	4.0	8.3	6.2
4/20/2003	42.1	66.0	54.1	30.9	46.9	40.1	5.6	18.9	12.3	-0.6	8.3	4.5
4/21/2003	51.1	64.0	54.3	35.1	53.6	46.6	10.6	17.8	12.4	1.7	12.0	8.1
4/22/2003	46.4	57.2	53.2	37.4	54.0	50.0	8.0	14.0	11.8	3.0	12.2	10.0
4/23/2003	39.0	50.0	43.9	25.0	37.0	30.0	3.9	10.0	6.6	-3.9	2.8	-1.1
4/24/2003	33.1	62.1	47.1	14.0	28.0	21.7	0.6	16.7	8.4	-10.0	-2.2	-5.7
4/25/2003	36.0	68.0	50.7	19.0	39.2	30.4	2.2	20.0	10.4	-7.2	4.0	-0.9
4/26/2003	51.8	63.0	55.2	39.9	55.9	52.2	11.0	17.2	12.9	4.4	13.3	11.2
4/27/2003	43.0	70.0	56.3	26.1	53.1	39.7	6.1	21.1	13.5	-3.3	11.7	4.3
4/28/2003	37.9	81.0	57.7	28.4	43.0	36.3	3.3	27.2	14.3	-2.0	6.1	2.4
4/29/2003	48.0	73.9	57.9	28.9	54.0	43.2	8.9	23.3	14.4	-1.7	12.2	6.2
4/30/2003	45.0	68.0	55.0	32.0	39.9	36.3	7.2	20.0	12.8	0.0	4.4	2.4
5/1/2003	54.0	79.0	64.9	39.9	61.0	52.2	12.2	26.1	18.3	4.4	16.1	11.2
5/2/2003	55.4	75.9	66.0	44.6	62.1	56.8	13.0	24.4	18.9	7.0	16.7	13.8
5/3/2003	44.1	64.9	54.1	30.0	45.0	37.9	6.7	18.3	12.3	-1.1	7.2	3.3
5/4/2003	43.0	66.0	55.6	30.9	41.0	36.1	6.1	18.9	13.1	-0.6	5.0	2.3
5/5/2003	43.0	63.0	50.0	37.4	44.6	41.7	6.1	17.2	10.0	3.0	7.0	5.4
5/6/2003	44.1	64.0	51.3	37.4	55.4	46.0	6.7	17.8	10.7	3.0	13.0	7.8
5/7/2003	52.0	73.0	59.5	52.0	60.8	56.5	11.1	22.8	15.3	11.1	16.0	13.6
5/8/2003	57.2	68.0	60.6	54.0	59.0	57.0	14.0	20.0	15.9	12.2	15.0	13.9
5/9/2003	53.1	64.9	58.3	48.0	59.0	52.9	11.7	18.3	14.6	8.9	15.0	11.6
5/10/2003	48.2	75.0	60.1	48.0	60.8	53.4	9.0	23.9	15.6	8.9	16.0	11.9
5/11/2003	57.2	75.9	66.9	53.6	69.8	62.6	14.0	24.4	19.4	12.0	21.0	17.0
5/12/2003	51.8	73.9	58.1	42.1	57.0	45.0	11.0	23.3	14.5	5.6	13.9	7.2
5/13/2003	48.2	55.0	51.3	39.0	44.1	41.4	9.0	12.8	10.7	3.9	6.7	5.2
5/14/2003	48.2	61.0	54.0	39.2	44.1	42.3	9.0	16.1	12.2	4.0	6.7	5.7
5/15/2003	39.0	63.0	51.3	37.9	50.0	43.9	3.9	17.2	10.7	3.3	10.0	6.6
5/16/2003	51.1	55.9	53.2	46.9	51.8	50.4	10.6	13.3	11.8	8.3	11.0	10.2

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
5/17/2003	48.0	55.0	50.9	44.1	51.8	47.3	8.9	12.8	10.5	6.7	11.0	8.5
5/18/2003	50.0	64.9	56.1	42.8	50.0	47.1	10.0	18.3	13.4	6.0	10.0	8.4
5/19/2003	39.0	73.9	55.8	36.0	48.0	42.6	3.9	23.3	13.2	2.2	8.9	5.9
5/20/2003	44.1	73.0	59.9	37.0	50.0	43.0	6.7	22.8	15.5	2.8	10.0	6.1
5/21/2003	51.8	64.9	56.3	39.9	57.0	49.5	11.0	18.3	13.5	4.4	13.9	9.7
5/22/2003	46.0	64.9	54.7	41.0	52.0	45.9	7.8	18.3	12.6	5.0	11.1	7.7
5/23/2003	53.1	63.0	57.6	48.2	53.6	50.7	11.7	17.2	14.2	9.0	12.0	10.4
5/24/2003	53.1	61.0	56.3	52.0	57.2	54.7	11.7	16.1	13.5	11.1	14.0	12.6
5/25/2003	57.0	68.0	61.0	50.0	55.9	54.5	13.9	20.0	16.1	10.0	13.3	12.5
5/26/2003	57.0	66.0	60.8	53.1	57.2	55.0	13.9	18.9	16.0	11.7	14.0	12.8
5/27/2003	52.0	64.9	57.9	46.0	55.0	51.3	11.1	18.3	14.4	7.8	12.8	10.7
5/28/2003	53.1	66.2	57.9	48.0	57.2	52.9	11.7	19.0	14.4	8.9	14.0	11.6
5/29/2003	50.0	72.0	58.3	48.9	57.0	52.0	10.0	22.2	14.6	9.4	13.9	11.1
5/30/2003	51.1	73.9	62.8	50.0	57.2	53.8	10.6	23.3	17.1	10.0	14.0	12.1
5/31/2003	57.0	69.1	60.6	54.0	60.8	57.7	13.9	20.6	15.9	12.2	16.0	14.3
6/1/2003	50.0	60.1	54.5	42.8	59.0	48.9	10.0	15.6	12.5	6.0	15.0	9.4
6/2/2003	44.1	71.1	56.3	37.0	44.6	40.3	6.7	21.7	13.5	2.8	7.0	4.6
6/3/2003	46.0	66.9	53.1	41.0	53.6	48.2	7.8	19.4	11.7	5.0	12.0	9.0
6/4/2003	52.0	60.1	55.4	51.1	55.9	52.9	11.1	15.6	13.0	10.6	13.3	11.6
6/5/2003	55.0	68.0	59.5	48.9	57.2	54.1	12.8	20.0	15.3	9.4	14.0	12.3
6/6/2003	55.9	73.9	62.2	50.0	54.0	51.4	13.3	23.3	16.8	10.0	12.2	10.8
6/7/2003	55.0	69.1	59.7	53.1	60.8	57.2	12.8	20.6	15.4	11.7	16.0	14.0
6/8/2003	57.0	71.1	63.1	57.0	60.8	58.8	13.9	21.7	17.3	13.9	16.0	14.9
6/9/2003	57.2	75.9	65.5	51.8	59.0	56.7	14.0	24.4	18.6	11.0	15.0	13.7
6/10/2003	53.1	78.1	63.7	52.0	57.9	55.0	11.7	25.6	17.6	11.1	14.4	12.8
6/11/2003	66.2	77.0	70.3	57.0	66.9	62.8	19.0	25.0	21.3	13.9	19.4	17.1
6/12/2003	64.9	73.9	69.6	64.9	70.0	67.5	18.3	23.3	20.9	18.3	21.1	19.7
6/13/2003	69.1	82.9	73.0	66.0	70.0	67.1	20.6	28.3	22.8	18.9	21.1	19.5
6/14/2003	64.9	80.1	72.0	63.0	69.8	66.9	18.3	26.7	22.2	17.2	21.0	19.4
6/15/2003	57.0	80.6	67.8	53.1	66.0	58.5	13.9	27.0	19.9	11.7	18.9	14.7
6/16/2003	48.0	77.0	64.2	42.1	55.4	48.9	8.9	25.0	17.9	5.6	13.0	9.4
6/17/2003	55.9	73.0	63.1	48.2	55.4	52.2	13.3	22.8	17.3	9.0	13.0	11.2
6/18/2003	55.4	64.9	59.7	54.0	61.0	57.4	13.0	18.3	15.4	12.2	16.1	14.1
6/19/2003	59.0	77.0	65.3	59.0	64.0	61.2	15.0	25.0	18.5	15.0	17.8	16.2
6/20/2003	57.2	70.0	63.0	51.1	59.0	55.6	14.0	21.1	17.2	10.6	15.0	13.1
6/21/2003	55.0	66.0	58.6	53.6	61.0	56.1	12.8	18.9	14.8	12.0	16.1	13.4
6/22/2003	57.2	73.9	62.1	53.1	66.2	57.7	14.0	23.3	16.7	11.7	19.0	14.3
6/23/2003	57.9	89.1	71.1	26.6	66.9	48.4	14.4	31.7	21.7	-3.0	19.4	9.1
6/24/2003	57.0	91.0	72.7	26.1	59.0	43.3	13.9	32.8	22.6	-3.3	15.0	6.3
6/25/2003	57.0	90.0	73.9	39.0	63.0	54.1	13.9	32.2	23.3	3.9	17.2	12.3
6/26/2003	66.0	90.0	77.4	52.0	69.8	63.1	18.9	32.2	25.2	11.1	21.0	17.3
6/27/2003	64.9	82.9	73.6	44.6	69.1	60.6	18.3	28.3	23.1	7.0	20.6	15.9
6/28/2003	55.0	81.0	67.5	46.0	57.9	53.2	12.8	27.2	19.7	7.8	14.4	11.8
6/29/2003	60.1	82.9	71.8	51.1	63.0	57.2	15.6	28.3	22.1	10.6	17.2	14.0

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
6/30/2003	63.0	80.1	70.0	55.0	66.2	62.1	17.2	26.7	21.1	12.8	19.0	16.7
7/1/2003	57.2	82.9	66.7	54.0	61.0	58.6	14.0	28.3	19.3	12.2	16.1	14.8
7/2/2003	60.1	84.0	71.6	59.0	64.4	61.5	15.6	28.9	22.0	15.0	18.0	16.4
7/3/2003	62.1	86.0	72.3	61.0	66.2	63.5	16.7	30.0	22.4	16.1	19.0	17.5
7/4/2003	64.9	91.4	76.8	64.0	68.0	66.4	18.3	33.0	24.9	17.8	20.0	19.1
7/5/2003	69.1	88.0	78.6	61.0	69.1	66.0	20.6	31.1	25.9	16.1	20.6	18.9
7/6/2003	68.0	90.0	79.2	57.0	69.1	65.1	20.0	32.2	26.2	13.9	20.6	18.4
7/7/2003	68.0	82.9	75.9	66.0	73.0	68.5	20.0	28.3	24.4	18.9	22.8	20.3
7/8/2003	71.1	91.0	78.6	66.0	70.0	67.8	21.7	32.8	25.9	18.9	21.1	19.9
7/9/2003	66.9	84.9	73.0	57.2	69.8	64.6	19.4	29.4	22.8	14.0	21.0	18.1
7/10/2003	57.2	71.1	64.0	57.0	64.4	59.9	14.0	21.7	17.8	13.9	18.0	15.5
7/11/2003	64.0	82.9	70.2	55.4	68.0	63.9	17.8	28.3	21.2	13.0	20.0	17.7
7/12/2003	57.9	79.0	69.4	54.0	60.8	57.0	14.4	26.1	20.8	12.2	16.0	13.9
7/13/2003	55.9	79.0	68.7	53.1	61.0	55.9	13.3	26.1	20.4	11.7	16.1	13.3
7/14/2003	55.9	82.0	69.3	55.0	61.0	57.4	13.3	27.8	20.7	12.8	16.1	14.1
7/15/2003	59.0	82.0	70.5	57.0	66.0	61.9	15.0	27.8	21.4	13.9	18.9	16.6
7/16/2003	71.1	84.9	76.3	57.9	71.6	66.2	21.7	29.4	24.6	14.4	22.0	19.0
7/17/2003	57.0	82.9	69.1	55.0	60.8	57.7	13.9	28.3	20.6	12.8	16.0	14.3
7/18/2003	66.0	79.0	69.4	61.0	69.8	65.7	18.9	26.1	20.8	16.1	21.0	18.7
7/19/2003	57.0	80.1	66.2	51.1	66.0	57.7	13.9	26.7	19.0	10.6	18.9	14.3
7/20/2003	53.6	81.0	65.7	53.1	62.6	56.5	12.0	27.2	18.7	11.7	17.0	13.6
7/21/2003	63.0	86.0	73.0	60.8	71.6	65.3	17.2	30.0	22.8	16.0	22.0	18.5
7/22/2003	62.6	75.0	67.3	61.0	69.8	64.4	17.0	23.9	19.6	16.1	21.0	18.0
7/23/2003	66.0	80.1	70.2	60.8	69.1	65.8	18.9	26.7	21.2	16.0	20.6	18.8
7/24/2003	66.2	77.0	69.8	60.1	66.0	63.5	19.0	25.0	21.0	15.6	18.9	17.5
7/25/2003	57.9	82.9	67.1	55.9	62.1	59.5	14.4	28.3	19.5	13.3	16.7	15.3
7/26/2003	59.0	82.9	68.4	57.2	64.0	60.8	15.0	28.3	20.2	14.0	17.8	16.0
7/27/2003	66.2	86.0	73.4	62.1	71.6	67.1	19.0	30.0	23.0	16.7	22.0	19.5
7/28/2003	64.4	80.1	71.1	54.0	71.6	65.1	18.0	26.7	21.7	12.2	22.0	18.4
7/29/2003	55.0	80.1	65.1	52.0	59.0	55.8	12.8	26.7	18.4	11.1	15.0	13.2
7/30/2003	55.9	82.0	68.0	55.0	63.0	57.9	13.3	27.8	20.0	12.8	17.2	14.4
7/31/2003	57.9	75.2	69.3	55.9	64.4	60.6	14.4	24.0	20.7	13.3	18.0	15.9
8/1/2003	66.0	75.9	69.8	64.0	71.6	67.3	18.9	24.4	21.0	17.8	22.0	19.6
8/2/2003	68.0	84.0	72.3	66.2	73.4	69.4	20.0	28.9	22.4	19.0	23.0	20.8
8/3/2003	66.2	81.0	72.3	66.2	73.9	69.1	19.0	27.2	22.4	19.0	23.3	20.6
8/4/2003	69.8	82.9	73.9	66.9	72.0	70.2	21.0	28.3	23.3	19.4	22.2	21.2
8/5/2003	66.2	79.0	72.0	66.0	72.0	68.9	19.0	26.1	22.2	18.9	22.2	20.5
8/6/2003	66.2	79.0	70.2	62.6	69.1	66.4	19.0	26.1	21.2	17.0	20.6	19.1
8/7/2003	64.0	82.9	70.5	64.0	69.8	65.8	17.8	28.3	21.4	17.8	21.0	18.8
8/8/2003	66.2	84.2	72.9	66.0	70.0	67.6	19.0	29.0	22.7	18.9	21.1	19.8
8/9/2003	69.1	78.1	72.3	68.0	73.4	70.5	20.6	25.6	22.4	20.0	23.0	21.4
8/10/2003	69.1	82.0	73.6	69.1	73.4	70.2	20.6	27.8	23.1	20.6	23.0	21.2
8/11/2003	66.2	77.0	69.6	64.9	71.6	67.8	19.0	25.0	20.9	18.3	22.0	19.9
8/12/2003	68.0	84.0	72.0	66.9	71.1	68.5	20.0	28.9	22.2	19.4	21.7	20.3

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
8/13/2003	66.2	89.6	74.7	66.0	73.4	68.9	19.0	32.0	23.7	18.9	23.0	20.5
8/14/2003	69.1	89.1	74.7	63.0	73.0	69.4	20.6	31.7	23.7	17.2	22.8	20.8
8/15/2003	66.0	87.1	74.1	63.0	71.1	67.1	18.9	30.6	23.4	17.2	21.7	19.5
8/16/2003	69.8	84.9	75.6	66.9	72.0	69.6	21.0	29.4	24.2	19.4	22.2	20.9
8/17/2003	66.0	82.4	70.9	60.1	69.8	66.0	18.9	28.0	21.6	15.6	21.0	18.9
8/18/2003	55.9	80.1	66.9	55.0	62.1	58.5	13.3	26.7	19.4	12.8	16.7	14.7
8/19/2003	59.0	82.0	66.7	57.2	64.0	59.7	15.0	27.8	19.3	14.0	17.8	15.4
8/20/2003	60.1	84.0	68.9	59.0	70.0	63.1	15.6	28.9	20.5	15.0	21.1	17.3
8/21/2003	64.4	87.1	72.5	64.4	70.0	66.7	18.0	30.6	22.5	18.0	21.1	19.3
8/22/2003	68.0	89.1	75.4	66.2	73.9	69.3	20.0	31.7	24.1	19.0	23.3	20.7
8/23/2003	62.1	81.0	71.1	45.0	66.0	57.6	16.7	27.2	21.7	7.2	18.9	14.2
8/24/2003	51.1	75.9	62.8	46.0	52.0	49.6	10.6	24.4	17.1	7.8	11.1	9.8
8/25/2003	60.1	87.1	70.0	50.0	66.2	58.8	15.6	30.6	21.1	10.0	19.0	14.9
8/26/2003	63.0	79.0	69.6	62.6	71.6	66.2	17.2	26.1	20.9	17.0	22.0	19.0
8/27/2003	64.4	84.9	70.2	64.0	69.1	66.0	18.0	29.4	21.2	17.8	20.6	18.9
8/28/2003	57.2	80.1	66.6	51.1	66.9	58.5	14.0	26.7	19.2	10.6	19.4	14.7
8/29/2003	57.9	84.0	68.7	55.4	73.9	63.0	14.4	28.9	20.4	13.0	23.3	17.2
8/30/2003	64.4	79.0	70.5	59.0	71.6	67.8	18.0	26.1	21.4	15.0	22.0	19.9
8/31/2003	50.0	72.0	58.8	46.4	61.0	52.3	10.0	22.2	14.9	8.0	16.1	11.3
9/1/2003	60.8	66.0	63.0	57.9	64.9	61.9	16.0	18.9	17.2	14.4	18.3	16.6
9/2/2003	62.6	69.1	65.1	60.1	66.2	63.7	17.0	20.6	18.4	15.6	19.0	17.6
9/3/2003	60.8	66.2	63.0	60.1	66.2	62.1	16.0	19.0	17.2	15.6	19.0	16.7
9/4/2003	64.4	75.9	68.2	62.6	68.0	66.0	18.0	24.4	20.1	17.0	20.0	18.9
9/5/2003	57.0	68.0	62.4	53.1	63.0	57.7	13.9	20.0	16.9	11.7	17.2	14.3
9/6/2003	51.1	73.9	57.6	51.1	62.1	53.4	10.6	23.3	14.2	10.6	16.7	11.9
9/7/2003	53.6	77.0	59.9	48.0	62.6	55.4	12.0	25.0	15.5	8.9	17.0	13.0
9/8/2003	57.0	79.0	63.9	55.9	63.0	59.2	13.9	26.1	17.7	13.3	17.2	15.1
9/9/2003	59.0	72.0	64.2	57.0	62.1	58.5	15.0	22.2	17.9	13.9	16.7	14.7
9/10/2003	50.0	77.0	59.9	50.0	61.0	53.6	10.0	25.0	15.5	10.0	16.1	12.0
9/11/2003	53.1	79.0	62.1	52.0	66.0	56.3	11.7	26.1	16.7	11.1	18.9	13.5
9/12/2003	55.4	73.0	63.5	51.1	64.0	56.7	13.0	22.8	17.5	10.6	17.8	13.7
9/13/2003	59.0	71.1	64.0	51.1	70.0	60.1	15.0	21.7	17.8	10.6	21.1	15.6
9/14/2003	77.0	77.0	77.0	64.4	64.9	64.6	25.0	25.0	25.0	18.0	18.3	18.1
9/15/2003	Bad or missing data											
9/16/2003	Bad or missing data											
9/17/2003	Bad or missing data											
9/18/2003	51.8	71.1	59.9	51.1	62.1	55.4	11.0	21.7	15.5	10.6	16.7	13.0
9/19/2003	66.0	71.1	68.0	59.0	66.9	63.7	18.9	21.7	20.0	15.0	19.4	17.6
9/20/2003	60.8	73.9	65.1	52.0	64.9	61.2	16.0	23.3	18.4	11.1	18.3	16.2
9/21/2003	50.0	72.0	57.6	50.0	57.2	52.7	10.0	22.2	14.2	10.0	14.0	11.5
9/22/2003	62.1	71.1	66.2	57.0	64.9	59.9	16.7	21.7	19.0	13.9	18.3	15.5
9/23/2003	57.2	71.6	65.8	48.0	66.2	60.8	14.0	22.0	18.8	8.9	19.0	16.0
9/24/2003	48.0	71.1	55.6	46.0	53.1	49.6	8.9	21.7	13.1	7.8	11.7	9.8
9/25/2003	53.1	66.0	60.3	48.9	60.8	55.0	11.7	18.9	15.7	9.4	16.0	12.8

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
9/26/2003	48.0	69.1	55.9	48.0	60.8	53.2	8.9	20.6	13.3	8.9	16.0	11.8
9/27/2003	63.0	78.1	69.1	57.2	63.0	62.1	17.2	25.6	20.6	14.0	17.2	16.7
9/28/2003	55.0	69.1	60.3	48.2	61.0	55.4	12.8	20.6	15.7	9.0	16.1	13.0
9/29/2003	50.0	59.0	54.9	44.1	48.9	46.2	10.0	15.0	12.7	6.7	9.4	7.9
9/30/2003	41.0	62.1	48.2	36.0	46.0	41.4	5.0	16.7	9.0	2.2	7.8	5.2
10/1/2003	48.0	55.0	50.7	37.0	48.2	43.9	8.9	12.8	10.4	2.8	9.0	6.6
10/2/2003	41.0	51.8	45.0	30.0	44.1	37.8	5.0	11.0	7.2	-1.1	6.7	3.2
10/3/2003	32.0	55.0	40.8	27.0	37.9	32.9	0.0	12.8	4.9	-2.8	3.3	0.5
10/4/2003	44.6	52.0	48.0	30.0	48.2	40.8	7.0	11.1	8.9	-1.1	9.0	4.9
10/5/2003	37.4	55.0	43.3	32.0	41.0	37.9	3.0	12.8	6.3	0.0	5.0	3.3
10/6/2003	33.8	57.0	40.5	30.9	39.9	35.1	1.0	13.9	4.7	-0.6	4.4	1.7
10/7/2003	33.8	63.0	42.4	33.1	46.4	37.6	1.0	17.2	5.8	0.6	8.0	3.1
10/8/2003	41.0	70.0	49.6	39.2	55.9	45.7	5.0	21.1	9.8	4.0	13.3	7.6
10/9/2003	48.2	77.0	55.4	48.2	59.0	52.5	9.0	25.0	13.0	9.0	15.0	11.4
10/10/2003	52.0	75.9	60.3	51.8	59.0	55.4	11.1	24.4	15.7	11.0	15.0	13.0
10/11/2003	48.2	73.9	55.6	48.2	59.0	51.4	9.0	23.3	13.1	9.0	15.0	10.8
10/12/2003	46.0	73.9	54.1	44.6	59.0	49.8	7.8	23.3	12.3	7.0	15.0	9.9
10/13/2003	46.0	70.0	57.4	44.1	57.0	47.7	7.8	21.1	14.1	6.7	13.9	8.7
10/14/2003	44.1	62.6	51.3	42.1	51.8	45.9	6.7	17.0	10.7	5.6	11.0	7.7
10/15/2003	51.1	57.2	54.1	28.9	53.6	45.3	10.6	14.0	12.3	-1.7	12.0	7.4
10/16/2003	35.6	59.0	47.7	33.1	41.0	37.6	2.0	15.0	8.7	0.6	5.0	3.1
10/17/2003	37.4	51.1	42.8	37.0	42.1	39.4	3.0	10.6	6.0	2.8	5.6	4.1
10/18/2003	39.0	54.0	44.1	35.1	41.0	38.7	3.9	12.2	6.7	1.7	5.0	3.7
10/19/2003	44.6	55.0	48.9	35.6	43.0	40.5	7.0	12.8	9.4	2.0	6.1	4.7
10/20/2003	33.8	60.1	41.9	32.0	42.8	36.3	1.0	15.6	5.5	0.0	6.0	2.4
10/21/2003	44.6	70.0	56.1	43.0	52.0	45.7	7.0	21.1	13.4	6.1	11.1	7.6
10/22/2003	39.2	57.0	47.8	26.6	46.0	39.9	4.0	13.9	8.8	-3.0	7.8	4.4
10/23/2003	37.0	42.1	38.8	19.4	27.0	23.2	2.8	5.6	3.8	-7.0	-2.8	-4.9
10/24/2003	33.1	52.0	39.9	19.9	34.0	27.9	0.6	11.1	4.4	-6.7	1.1	-2.3
10/25/2003	30.9	57.9	43.0	28.0	39.2	32.5	-0.6	14.4	6.1	-2.2	4.0	0.3
10/26/2003	52.0	64.0	58.1	39.9	57.0	49.8	11.1	17.8	14.5	4.4	13.9	9.9
10/27/2003	44.6	60.1	53.2	42.8	57.2	51.6	7.0	15.6	11.8	6.0	14.0	10.9
10/28/2003	33.8	53.1	40.5	33.1	42.1	36.3	1.0	11.7	4.7	0.6	5.6	2.4
10/29/2003	44.1	50.0	46.0	36.0	46.4	43.3	6.7	10.0	7.8	2.2	8.0	6.3
10/30/2003	33.8	60.1	44.6	32.0	41.0	35.4	1.0	15.6	7.0	0.0	5.0	1.9
10/31/2003	37.9	70.0	51.3	37.0	50.0	42.1	3.3	21.1	10.7	2.8	10.0	5.6
11/1/2003	46.4	72.0	55.8	46.0	62.1	51.6	8.0	22.2	13.2	7.8	16.7	10.9
11/2/2003	51.8	66.0	57.6	51.1	61.0	54.7	11.0	18.9	14.2	10.6	16.1	12.6
11/3/2003	53.1	70.0	57.2	53.1	61.0	55.6	11.7	21.1	14.0	11.7	16.1	13.1
11/4/2003	50.0	73.9	56.8	50.0	57.9	53.2	10.0	23.3	13.8	10.0	14.4	11.8
11/5/2003	57.0	63.0	58.3	53.6	57.9	56.5	13.9	17.2	14.6	12.0	14.4	13.6
11/6/2003	48.2	59.0	54.1	44.6	57.9	51.6	9.0	15.0	12.3	7.0	14.4	10.9
11/7/2003	41.0	54.0	47.7	24.8	46.0	37.4	5.0	12.2	8.7	-4.0	7.8	3.0
11/8/2003	30.2	48.0	38.8	7.0	26.1	18.5	-1.0	8.9	3.8	-13.9	-3.3	-7.5

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
11/9/2003	19.0	39.9	28.4	10.0	19.9	15.8	-7.2	4.4	-2.0	-12.2	-6.7	-9.0
11/10/2003	19.4	45.0	29.3	15.8	25.0	19.8	-7.0	7.2	-1.5	-9.0	-3.9	-6.8
11/11/2003	28.0	42.8	35.4	24.1	41.0	31.6	-2.2	6.0	1.9	-4.4	5.0	-0.2
11/12/2003	39.2	51.8	44.4	39.2	51.8	44.2	4.0	11.0	6.9	4.0	11.0	6.8
11/13/2003	35.1	57.2	46.0	19.4	53.6	35.8	1.7	14.0	7.8	-7.0	12.0	2.1
11/14/2003	33.8	42.8	36.3	17.1	30.2	21.7	1.0	6.0	2.4	-8.3	-1.0	-5.7
11/15/2003	37.9	51.1	43.5	19.9	36.0	30.4	3.3	10.6	6.4	-6.7	2.2	-0.9
11/16/2003	33.1	48.0	39.9	30.9	37.9	34.7	0.6	8.9	4.4	-0.6	3.3	1.5
11/17/2003	42.8	55.9	46.6	36.0	45.0	41.5	6.0	13.3	8.1	2.2	7.2	5.3
11/18/2003	33.8	51.8	41.2	33.8	46.9	39.6	1.0	11.0	5.1	1.0	8.3	4.2
11/19/2003	51.1	66.2	56.3	46.9	60.8	54.5	10.6	19.0	13.5	8.3	16.0	12.5
11/20/2003	39.9	55.9	47.7	32.0	55.9	39.7	4.4	13.3	8.7	0.0	13.3	4.3
11/21/2003	30.0	63.0	41.0	30.0	45.0	35.6	-1.1	17.2	5.0	-1.1	7.2	2.0
11/22/2003	35.6	60.1	43.0	35.6	45.0	40.1	2.0	15.6	6.1	2.0	7.2	4.5
11/23/2003	36.0	57.9	43.7	36.0	46.9	40.8	2.2	14.4	6.5	2.2	8.3	4.9
11/24/2003	37.4	57.0	48.2	35.6	50.0	43.5	3.0	13.9	9.0	2.0	10.0	6.4
11/25/2003	30.2	37.0	34.0	19.0	36.0	25.2	-1.0	2.8	1.1	-7.2	2.2	-3.8
11/26/2003	30.0	43.0	34.5	24.1	30.2	26.4	-1.1	6.1	1.4	-4.4	-1.0	-3.1
11/27/2003	30.0	50.0	39.9	28.4	37.4	32.7	-1.1	10.0	4.4	-2.0	3.0	0.4
11/28/2003	44.6	55.9	49.8	37.0	55.9	48.2	7.0	13.3	9.9	2.8	13.3	9.0
11/29/2003	37.0	46.0	39.6	19.9	44.1	30.6	2.8	7.8	4.2	-6.7	6.7	-0.8
11/30/2003	33.1	48.9	39.0	21.0	28.9	24.8	0.6	9.4	3.9	-6.1	-1.7	-4.0
12/1/2003	33.8	46.9	41.4	17.6	34.0	27.5	1.0	8.3	5.2	-8.0	1.1	-2.5
12/2/2003	24.8	34.0	30.4	3.0	28.0	16.3	-4.0	1.1	-0.9	-16.1	-2.2	-8.7
12/3/2003	19.0	34.0	24.3	7.0	15.8	11.3	-7.2	1.1	-4.3	-13.9	-9.0	-11.5
12/4/2003	17.1	33.1	22.8	14.0	21.2	16.5	-8.3	0.6	-5.1	-10.0	-6.0	-8.6
12/5/2003	23.0	37.4	30.9	19.9	30.2	24.4	-5.0	3.0	-0.6	-6.7	-1.0	-4.2
12/6/2003	23.0	32.0	26.8	17.1	32.0	24.1	-5.0	0.0	-2.9	-8.3	0.0	-4.4
12/7/2003	21.2	30.9	25.0	7.0	19.4	13.6	-6.0	-0.6	-3.9	-13.9	-7.0	-10.2
12/8/2003	12.9	32.0	22.3	8.1	21.2	13.3	-10.6	0.0	-5.4	-13.3	-6.0	-10.4
12/9/2003	27.0	35.6	30.9	17.1	24.1	21.6	-2.8	2.0	-0.6	-8.3	-4.4	-5.8
12/10/2003	35.1	48.2	37.4	23.0	37.9	28.2	1.7	9.0	3.0	-5.0	3.3	-2.1
12/11/2003	39.0	54.0	47.1	24.8	51.1	43.9	3.9	12.2	8.4	-4.0	10.6	6.6
12/12/2003	30.2	39.0	35.1	17.1	26.1	20.3	-1.0	3.9	1.7	-8.3	-3.3	-6.5
12/13/2003	23.0	30.9	28.0	6.8	18.0	12.4	-5.0	-0.6	-2.2	-14.0	-7.8	-10.9
12/14/2003	24.1	28.0	25.9	8.1	27.0	20.5	-4.4	-2.2	-3.4	-13.3	-2.8	-6.4
12/15/2003	26.1	37.0	30.0	23.0	30.9	25.9	-3.3	2.8	-1.1	-5.0	-0.6	-3.4
12/16/2003	19.0	37.9	29.5	17.1	28.0	23.2	-7.2	3.3	-1.4	-8.3	-2.2	-4.9
12/17/2003	25.0	34.0	32.0	21.2	33.8	30.0	-3.9	1.1	0.0	-6.0	1.0	-1.1
12/18/2003	27.0	30.2	29.1	19.0	24.8	20.8	-2.8	-1.0	-1.6	-7.2	-4.0	-6.2
12/19/2003	26.6	32.0	29.5	21.0	23.0	21.9	-3.0	0.0	-1.4	-6.1	-5.0	-5.6
12/20/2003	21.0	32.0	27.3	12.9	21.9	19.2	-6.1	0.0	-2.6	-10.6	-5.6	-7.1
12/21/2003	24.1	34.0	27.5	10.9	18.0	14.9	-4.4	1.1	-2.5	-11.7	-7.8	-9.5
12/22/2003	19.0	36.0	26.2	12.9	27.0	18.0	-7.2	2.2	-3.2	-10.6	-2.8	-7.8

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
12/23/2003	33.8	50.0	39.0	26.1	36.0	31.8	1.0	10.0	3.9	-3.3	2.2	-0.1
12/24/2003	37.4	50.0	43.7	30.0	48.2	40.1	3.0	10.0	6.5	-1.1	9.0	4.5
12/25/2003	28.0	39.0	33.8	18.0	36.0	26.1	-2.2	3.9	1.0	-7.8	2.2	-3.3
12/26/2003	30.0	43.0	34.0	18.0	27.0	22.6	-1.1	6.1	1.1	-7.8	-2.8	-5.2
12/27/2003	30.0	46.0	35.6	19.4	30.0	25.0	-1.1	7.8	2.0	-7.0	-1.1	-3.9
12/28/2003	21.2	45.0	28.6	21.0	30.9	25.5	-6.0	7.2	-1.9	-6.1	-0.6	-3.6
12/29/2003	23.0	46.0	30.6	21.0	32.0	26.1	-5.0	7.8	-0.8	-6.1	0.0	-3.3
12/30/2003	33.1	42.1	37.8	21.2	37.4	31.5	0.6	5.6	3.2	-6.0	3.0	-0.3
12/31/2003	27.0	45.0	37.8	21.9	27.0	31.5	-2.8	7.2	3.2	-5.6	-2.8	-0.3
1/1/2004	28.9	46.0	38.1	17.1	26.1	22.1	-1.7	7.8	3.4	-8.3	-3.3	-5.5
1/2/2004	32.0	37.9	35.2	25.0	36.0	31.5	0.0	3.3	1.8	-3.9	2.2	-0.3
1/3/2004	37.9	48.2	44.8	36.0	46.9	43.9	3.3	9.0	7.1	2.2	8.3	6.6
1/4/2004	35.6	46.4	43.2	33.1	46.4	41.2	2.0	8.0	6.2	0.6	8.0	5.1
1/5/2004	33.8	39.9	36.7	32.0	37.4	34.3	1.0	4.4	2.6	0.0	3.0	1.3
1/6/2004	19.4	37.4	30.0	1.4	33.1	19.0	-7.0	3.0	-1.1	-17.0	0.6	-7.2
1/7/2004	14.0	21.2	17.6	-2.0	10.0	2.7	-10.0	-6.0	-8.0	-18.9	-12.2	-16.3
1/8/2004	19.0	30.0	22.8	3.2	14.0	9.5	-7.2	-1.1	-5.1	-16.0	-10.0	-12.5
1/9/2004	5.0	27.0	16.2	-11.9	18.0	2.1	-15.0	-2.8	-8.8	-24.4	-7.8	-16.6
1/10/2004	-0.4	12.9	4.5	-11.9	-7.1	-8.9	-18.0	-10.6	-15.3	-24.4	-21.7	-22.7
1/11/2004	3.0	28.4	11.7	-7.1	7.0	0.5	-16.1	-2.0	-11.3	-21.7	-13.9	-17.5
1/12/2004	24.8	33.8	28.0	7.0	32.0	20.3	-4.0	1.0	-2.2	-13.9	0.0	-6.5
1/13/2004	23.0	37.0	34.0	5.0	30.9	23.5	-5.0	2.8	1.1	-15.0	-0.6	-4.7
1/14/2004	8.1	23.0	12.6	-5.8	9.0	2.5	-13.3	-5.0	-10.8	-21.0	-12.8	-16.4
1/15/2004	5.0	12.9	11.1	-11.2	9.0	3.9	-15.0	-10.6	-11.6	-24.0	-12.8	-15.6
1/16/2004	-0.4	23.0	8.2	-16.6	3.0	-7.8	-18.0	-5.0	-13.2	-27.0	-16.1	-22.1
1/17/2004	8.6	21.2	15.8	-0.9	17.6	6.4	-13.0	-6.0	-9.0	-18.3	-8.0	-14.2
1/18/2004	19.0	32.0	24.8	10.4	25.0	21.4	-7.2	0.0	-4.0	-12.0	-3.9	-5.9
1/19/2004	19.4	27.0	21.9	8.1	12.0	9.9	-7.0	-2.8	-5.6	-13.3	-11.1	-12.3
1/20/2004	19.4	27.0	22.1	3.9	10.9	7.2	-7.0	-2.8	-5.5	-15.6	-11.7	-13.8
1/21/2004	17.1	23.0	18.7	3.2	9.0	5.9	-8.3	-5.0	-7.4	-16.0	-12.8	-14.5
1/22/2004	18.0	33.1	23.4	-0.4	25.0	8.6	-7.8	0.6	-4.8	-18.0	-3.9	-13.0
1/23/2004	6.8	19.0	11.5	-8.0	1.9	-4.2	-14.0	-7.2	-11.4	-22.2	-16.7	-20.1
1/24/2004	8.1	19.9	12.0	-7.6	7.0	2.5	-13.3	-6.7	-11.1	-22.0	-13.9	-16.4
1/25/2004	1.0	16.0	7.9	-11.0	1.4	-5.1	-17.2	-8.9	-13.4	-23.9	-17.0	-20.6
1/26/2004	12.0	17.6	14.4	-2.2	14.0	9.0	-11.1	-8.0	-9.8	-19.0	-10.0	-12.8
1/27/2004	15.8	23.0	18.9	8.1	21.2	14.7	-9.0	-5.0	-7.3	-13.3	-6.0	-9.6
1/28/2004	21.0	26.1	22.3	7.0	21.2	17.1	-6.1	-3.3	-5.4	-13.9	-6.0	-8.3
1/29/2004	17.6	21.9	19.8	-2.9	10.9	3.9	-8.0	-5.6	-6.8	-19.4	-11.7	-15.6
1/30/2004	7.0	18.0	13.3	-2.9	3.9	-0.4	-13.9	-7.8	-10.4	-19.4	-15.6	-18.0
1/31/2004	10.4	21.0	14.4	0.0	7.0	2.8	-12.0	-6.1	-9.8	-17.8	-13.9	-16.2
2/1/2004	12.9	33.1	19.9	3.2	14.0	8.8	-10.6	0.6	-6.7	-16.0	-10.0	-12.9
2/2/2004	6.1	30.9	17.6	3.9	18.0	11.3	-14.4	-0.6	-8.0	-15.6	-7.8	-11.5
2/3/2004	18.0	33.8	28.0	14.0	32.0	25.0	-7.8	1.0	-2.2	-10.0	0.0	-3.9
2/4/2004	30.2	35.6	33.8	16.0	32.0	25.5	-1.0	2.0	1.0	-8.9	0.0	-3.6

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
2/5/2004	16.0	30.9	23.5	9.0	21.9	14.5	-8.9	-0.6	-4.7	-12.8	-5.6	-9.7
2/6/2004	24.8	37.0	28.9	21.0	33.8	25.9	-4.0	2.8	-1.7	-6.1	1.0	-3.4
2/7/2004	28.4	37.0	34.0	12.2	34.0	29.8	-2.0	2.8	1.1	-11.0	1.1	-1.2
2/8/2004	12.2	30.0	22.3	0.0	12.9	6.8	-11.0	-1.1	-5.4	-17.8	-10.6	-14.0
2/9/2004	8.1	36.0	19.9	3.9	21.2	10.4	-13.3	2.2	-6.7	-15.6	-6.0	-12.0
2/10/2004	26.1	41.0	34.9	19.0	26.1	21.4	-3.3	5.0	1.6	-7.2	-3.3	-5.9
2/11/2004	26.1	37.0	31.3	10.9	28.4	17.8	-3.3	2.8	-0.4	-11.7	-2.0	-7.9
2/12/2004	16.0	37.0	24.1	10.9	21.9	14.7	-8.9	2.8	-4.4	-11.7	-5.6	-9.6
2/13/2004	30.0	36.0	32.7	17.1	26.1	20.5	-1.1	2.2	0.4	-8.3	-3.3	-6.4
2/14/2004	25.0	35.1	30.2	16.0	19.4	18.0	-3.9	1.7	-1.0	-8.9	-7.0	-7.8
2/15/2004	15.1	30.9	22.6	-2.9	21.0	6.8	-9.4	-0.6	-5.2	-19.4	-6.1	-14.0
2/16/2004	1.0	26.1	11.7	-6.0	10.9	0.3	-17.2	-3.3	-11.3	-21.1	-11.7	-17.6
2/17/2004	7.0	30.9	17.8	3.0	12.2	7.0	-13.9	-0.6	-7.9	-16.1	-11.0	-13.9
2/18/2004	14.0	37.9	25.0	9.0	16.0	12.0	-10.0	3.3	-3.9	-12.8	-8.9	-11.1
2/19/2004	25.0	45.0	34.2	12.9	26.6	20.8	-3.9	7.2	1.2	-10.6	-3.0	-6.2
2/20/2004	23.0	44.1	33.1	21.0	28.4	25.0	-5.0	6.7	0.6	-6.1	-2.0	-3.9
2/21/2004	35.1	41.0	37.8	23.0	34.0	30.2	1.7	5.0	3.2	-5.0	1.1	-1.0
2/22/2004	32.0	41.0	35.6	17.6	26.1	20.8	0.0	5.0	2.0	-8.0	-3.3	-6.2
2/23/2004	21.2	39.0	30.2	15.1	21.2	18.1	-6.0	3.9	-1.0	-9.4	-6.0	-7.7
2/24/2004	24.8	33.1	30.6	19.0	30.9	27.3	-4.0	0.6	-0.8	-7.2	-0.6	-2.6
2/25/2004	15.1	37.9	26.4	7.0	19.9	12.9	-9.4	3.3	-3.1	-13.9	-6.7	-10.6
2/26/2004	15.8	41.0	27.3	12.0	21.2	15.4	-9.0	5.0	-2.6	-11.1	-6.0	-9.2
2/27/2004	21.2	45.0	31.5	6.8	18.0	12.7	-6.0	7.2	-0.3	-14.0	-7.8	-10.7
2/28/2004	21.0	50.0	32.9	14.0	28.0	19.0	-6.1	10.0	0.5	-10.0	-2.2	-7.2
2/29/2004	21.0	46.9	33.3	21.0	32.0	25.0	-6.1	8.3	0.7	-6.1	0.0	-3.9
3/1/2004	24.8	46.0	34.9	24.8	33.1	29.1	-4.0	7.8	1.6	-4.0	0.6	-1.6
3/2/2004	35.6	59.0	44.6	30.2	46.0	36.5	2.0	15.0	7.0	-1.0	7.8	2.5
3/3/2004	33.8	51.8	43.9	33.1	41.0	37.0	1.0	11.0	6.6	0.6	5.0	2.8
3/4/2004	35.6	51.1	40.5	35.6	44.6	39.2	2.0	10.6	4.7	2.0	7.0	4.0
3/5/2004	41.0	50.0	46.0	41.0	48.2	44.2	5.0	10.0	7.8	5.0	9.0	6.8
3/6/2004	44.1	55.9	47.1	30.2	54.0	45.3	6.7	13.3	8.4	-1.0	12.2	7.4
3/7/2004	39.0	52.0	43.3	26.1	41.0	31.1	3.9	11.1	6.3	-3.3	5.0	-0.5
3/8/2004	35.1	42.1	38.1	28.9	39.2	35.2	1.7	5.6	3.4	-1.7	4.0	1.8
3/9/2004	28.9	37.9	33.8	19.0	33.8	25.0	-1.7	3.3	1.0	-7.2	1.0	-3.9
3/10/2004	30.0	43.0	33.6	26.6	32.0	29.7	-1.1	6.1	0.9	-3.0	0.0	-1.3
3/11/2004	23.0	51.1	35.4	21.0	32.0	25.3	-5.0	10.6	1.9	-6.1	0.0	-3.7
3/12/2004	28.4	46.9	36.1	15.8	37.4	24.4	-2.0	8.3	2.3	-9.0	3.0	-4.2
3/13/2004	24.8	42.1	32.0	6.1	18.0	12.7	-4.0	5.6	0.0	-14.4	-7.8	-10.7
3/14/2004	23.0	45.0	32.5	6.1	33.8	17.2	-5.0	7.2	0.3	-14.4	1.0	-8.2
3/15/2004	32.0	53.1	43.5	17.1	42.8	30.2	0.0	11.7	6.4	-8.3	6.0	-1.0
3/16/2004	28.0	45.0	30.7	17.1	30.2	25.9	-2.2	7.2	-0.7	-8.3	-1.0	-3.4
3/17/2004	26.6	33.1	29.3	26.1	32.0	28.6	-3.0	0.6	-1.5	-3.3	0.0	-1.9
3/18/2004	23.0	39.0	30.4	19.0	30.9	25.7	-5.0	3.9	-0.9	-7.2	-0.6	-3.5
3/19/2004	30.0	39.0	33.4	18.0	32.0	27.5	-1.1	3.9	0.8	-7.8	0.0	-2.5

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
3/20/2004	23.0	45.0	33.8	19.0	41.0	27.0	-5.0	7.2	1.0	-7.2	5.0	-2.8
3/21/2004	32.0	42.1	38.1	15.8	39.9	33.6	0.0	5.6	3.4	-9.0	4.4	0.9
3/22/2004	19.4	34.0	27.3	-2.2	17.1	5.4	-7.0	1.1	-2.6	-19.0	-8.3	-14.8
3/23/2004	14.0	48.0	29.7	-2.0	16.0	9.7	-10.0	8.9	-1.3	-18.9	-8.9	-12.4
3/24/2004	24.1	57.0	39.4	16.0	33.8	23.4	-4.4	13.9	4.1	-8.9	1.0	-4.8
3/25/2004	42.1	57.0	48.6	34.0	45.0	41.2	5.6	13.9	9.2	1.1	7.2	5.1
3/26/2004	41.0	64.9	51.8	41.0	50.0	44.2	5.0	18.3	11.0	5.0	10.0	6.8
3/27/2004	50.0	68.0	56.3	45.0	57.2	51.3	10.0	20.0	13.5	7.2	14.0	10.7
3/28/2004	45.0	64.9	52.2	37.0	46.4	41.2	7.2	18.3	11.2	2.8	8.0	5.1
3/29/2004	44.1	60.1	50.5	28.4	44.1	34.5	6.7	15.6	10.3	-2.0	6.7	1.4
3/30/2004	33.8	54.0	42.6	17.1	37.9	29.8	1.0	12.2	5.9	-8.3	3.3	-1.2
3/31/2004	41.0	51.8	45.3	37.9	44.6	41.7	5.0	11.0	7.4	3.3	7.0	5.4
4/1/2004	44.6	55.0	48.4	42.1	48.2	45.7	7.0	12.8	9.1	5.6	9.0	7.6
4/2/2004	44.1	51.1	46.6	39.9	45.0	42.6	6.7	10.6	8.1	4.4	7.2	5.9
4/3/2004	41.0	50.0	44.8	35.6	42.1	38.5	5.0	10.0	7.1	2.0	5.6	3.6
4/4/2004	32.0	46.0	39.4	19.9	42.1	35.2	0.0	7.8	4.1	-6.7	5.6	1.8
4/5/2004	24.8	41.0	32.0	1.0	24.1	9.7	-4.0	5.0	0.0	-17.2	-4.4	-12.4
4/6/2004	27.0	55.9	39.7	3.9	21.2	10.9	-2.8	13.3	4.3	-15.6	-6.0	-11.7
4/7/2004	39.9	66.0	51.1	21.0	37.9	32.5	4.4	18.9	10.6	-6.1	3.3	0.3
4/8/2004	33.1	52.0	41.7	25.0	39.9	34.0	0.6	11.1	5.4	-3.9	4.4	1.1
4/9/2004	35.6	60.1	43.9	15.1	41.0	35.2	2.0	15.6	6.6	-9.4	5.0	1.8
4/10/2004	30.0	62.1	45.3	18.0	28.9	26.6	-1.1	16.7	7.4	-7.8	-1.7	-3.0
4/11/2004	37.9	55.0	44.4	21.9	34.0	28.0	3.3	12.8	6.9	-5.6	1.1	-2.2
4/12/2004	39.0	54.0	44.6	21.0	41.0	32.7	3.9	12.2	7.0	-6.1	5.0	0.4
4/13/2004	41.0	46.9	44.4	39.2	46.9	43.5	5.0	8.3	6.9	4.0	8.3	6.4
4/14/2004	42.1	46.9	45.5	28.4	46.9	41.5	5.6	8.3	7.5	-2.0	8.3	5.3
4/15/2004	37.0	55.9	46.6	15.8	28.9	24.1	2.8	13.3	8.1	-9.0	-1.7	-4.4
4/16/2004	28.9	66.9	46.0	17.1	27.0	22.5	-1.7	19.4	7.8	-8.3	-2.8	-5.3
4/17/2004	42.1	80.1	58.6	27.0	50.0	39.0	5.6	26.7	14.8	-2.8	10.0	3.9
4/18/2004	46.9	82.9	65.1	46.0	59.0	51.8	8.3	28.3	18.4	7.8	15.0	11.0
4/19/2004	55.4	84.2	72.1	39.2	59.0	51.3	13.0	29.0	22.3	4.0	15.0	10.7
4/20/2004	48.9	75.0	60.1	37.0	60.1	45.3	9.4	23.9	15.6	2.8	15.6	7.4
4/21/2004	51.1	71.1	60.4	37.0	57.9	47.1	10.6	21.7	15.8	2.8	14.4	8.4
4/22/2004	55.0	73.9	62.8	50.0	59.0	54.5	12.8	23.3	17.1	10.0	15.0	12.5
4/23/2004	51.1	61.0	53.8	48.2	59.0	51.8	10.6	16.1	12.1	9.0	15.0	11.0
4/24/2004	46.9	66.9	54.1	33.1	53.1	45.1	8.3	19.4	12.3	0.6	11.7	7.3
4/25/2004	44.1	60.1	47.1	28.4	44.1	36.7	6.7	15.6	8.4	-2.0	6.7	2.6
4/26/2004	46.4	55.0	50.4	43.0	53.1	48.6	8.0	12.8	10.2	6.1	11.7	9.2
4/27/2004	42.1	57.9	47.3	27.0	48.0	41.0	5.6	14.4	8.5	-2.8	8.9	5.0
4/28/2004	32.0	59.0	44.6	18.0	37.0	26.1	0.0	15.0	7.0	-7.8	2.8	-3.3
4/29/2004	41.0	81.0	58.8	28.0	51.1	40.1	5.0	27.2	14.9	-2.2	10.6	4.5
4/30/2004	54.0	77.0	66.9	45.0	55.4	50.7	12.2	25.0	19.4	7.2	13.0	10.4
5/1/2004	61.0	79.0	70.2	53.1	62.6	58.1	16.1	26.1	21.2	11.7	17.0	14.5
5/2/2004	62.6	77.0	68.4	59.0	66.2	63.7	17.0	25.0	20.2	15.0	19.0	17.6

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
5/3/2004	46.0	62.1	54.3	32.0	61.0	45.3	7.8	16.7	12.4	0.0	16.1	7.4
5/4/2004	37.9	61.0	48.9	27.0	33.1	29.8	3.3	16.1	9.4	-2.8	0.6	-1.2
5/5/2004	41.0	64.9	49.8	27.0	53.1	41.4	5.0	18.3	9.9	-2.8	11.7	5.2
5/6/2004	36.0	73.9	53.8	36.0	48.9	40.6	2.2	23.3	12.1	2.2	9.4	4.8
5/7/2004	55.4	75.9	61.9	44.1	63.0	55.4	13.0	24.4	16.6	6.7	17.2	13.0
5/8/2004	48.0	66.9	56.7	32.0	48.2	40.5	8.9	19.4	13.7	0.0	9.0	4.7
5/9/2004	50.0	73.0	57.9	43.0	60.8	50.2	10.0	22.8	14.4	6.1	16.0	10.1
5/10/2004	55.0	86.0	66.4	55.0	66.2	60.1	12.8	30.0	19.1	12.8	19.0	15.6
5/11/2004	60.8	84.0	71.6	60.1	64.9	62.4	16.0	28.9	22.0	15.6	18.3	16.9
5/12/2004	62.6	82.9	68.5	62.6	69.8	65.3	17.0	28.3	20.3	17.0	21.0	18.5
5/13/2004	60.8	86.0	69.3	60.8	66.9	63.7	16.0	30.0	20.7	16.0	19.4	17.6
5/14/2004	64.4	80.1	71.4	63.0	70.0	66.6	18.0	26.7	21.9	17.2	21.1	19.2
5/15/2004	62.6	81.0	69.8	62.1	68.0	65.1	17.0	27.2	21.0	16.7	20.0	18.4
5/16/2004	60.1	73.9	65.5	54.0	63.0	58.3	15.6	23.3	18.6	12.2	17.2	14.6
5/17/2004	53.1	79.0	62.6	53.1	64.4	57.4	11.7	26.1	17.0	11.7	18.0	14.1
5/18/2004	62.6	80.1	70.5	62.1	66.2	64.2	17.0	26.7	21.4	16.7	19.0	17.9
5/19/2004	60.8	73.9	65.7	55.9	66.9	62.8	16.0	23.3	18.7	13.3	19.4	17.1
5/20/2004	53.6	68.0	59.9	53.6	63.0	57.7	12.0	20.0	15.5	12.0	17.2	14.3
5/21/2004	64.0	81.0	67.6	62.1	69.8	64.8	17.8	27.2	19.8	16.7	21.0	18.2
5/22/2004	62.6	84.0	69.6	62.1	70.0	66.4	17.0	28.9	20.9	16.7	21.1	19.1
5/23/2004	62.6	87.1	71.8	62.6	69.1	65.1	17.0	30.6	22.1	17.0	20.6	18.4
5/24/2004	64.4	86.0	72.3	60.1	69.1	64.4	18.0	30.0	22.4	15.6	20.6	18.0
5/25/2004	55.9	79.0	67.3	52.0	63.0	56.5	13.3	26.1	19.6	11.1	17.2	13.6
5/26/2004	64.0	78.1	68.7	62.1	66.2	64.4	17.8	25.6	20.4	16.7	19.0	18.0
5/27/2004	57.2	73.9	64.4	55.0	66.2	60.6	14.0	23.3	18.0	12.8	19.0	15.9
5/28/2004	62.6	78.8	66.9	48.2	64.9	60.6	17.0	26.0	19.4	9.0	18.3	15.9
5/29/2004	46.0	66.9	57.2	34.0	48.0	39.0	7.8	19.4	14.0	1.1	8.9	3.9
5/30/2004	41.0	72.0	55.4	37.9	50.0	43.3	5.0	22.2	13.0	3.3	10.0	6.3
5/31/2004	54.0	66.9	58.1	48.9	57.0	52.7	12.2	19.4	14.5	9.4	13.9	11.5
6/1/2004	57.0	75.2	62.1	48.2	59.0	55.0	13.9	24.0	16.7	9.0	15.0	12.8
6/2/2004	53.1	72.0	61.7	52.0	59.0	54.5	11.7	22.2	16.5	11.1	15.0	12.5
6/3/2004	55.9	75.9	63.5	46.0	57.2	52.5	13.3	24.4	17.5	7.8	14.0	11.4
6/4/2004	46.9	71.1	60.6	41.0	55.4	47.8	8.3	21.7	15.9	5.0	13.0	8.8
6/5/2004	55.0	66.0	57.9	50.0	55.9	53.2	12.8	18.9	14.4	10.0	13.3	11.8
6/6/2004	53.1	66.0	57.9	48.9	55.9	52.7	11.7	18.9	14.4	9.4	13.3	11.5
6/7/2004	55.0	80.1	63.3	53.1	64.9	57.6	12.8	26.7	17.4	11.7	18.3	14.2
6/8/2004	57.2	84.9	66.7	57.0	66.0	60.3	14.0	29.4	19.3	13.9	18.9	15.7
6/9/2004	60.8	91.0	72.7	60.1	70.0	64.6	16.0	32.8	22.6	15.6	21.1	18.1
6/10/2004	61.0	84.0	68.0	57.2	70.0	63.0	16.1	28.9	20.0	14.0	21.1	17.2
6/11/2004	57.0	63.0	60.1	46.9	59.0	52.0	13.9	17.2	15.6	8.3	15.0	11.1
6/12/2004	46.4	73.9	56.5	39.9	54.0	47.3	8.0	23.3	13.6	4.4	12.2	8.5
6/13/2004	52.0	69.1	61.5	43.0	51.8	48.6	11.1	20.6	16.4	6.1	11.0	9.2
6/14/2004	64.0	82.0	69.8	52.0	69.1	60.6	17.8	27.8	21.0	11.1	20.6	15.9
6/15/2004	64.4	87.1	70.5	61.0	71.1	65.5	18.0	30.6	21.4	16.1	21.7	18.6

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
6/16/2004	62.6	84.9	69.8	61.0	71.6	64.8	17.0	29.4	21.0	16.1	22.0	18.2
6/17/2004	69.8	82.9	73.6	66.2	75.0	69.8	21.0	28.3	23.1	19.0	23.9	21.0
6/18/2004	69.1	84.9	73.4	68.0	72.0	69.3	20.6	29.4	23.0	20.0	22.2	20.7
6/19/2004	64.0	77.0	70.5	39.0	72.0	59.7	17.8	25.0	21.4	3.9	22.2	15.4
6/20/2004	48.9	72.0	60.3	41.0	48.2	44.1	9.4	22.2	15.7	5.0	9.0	6.7
6/21/2004	46.9	78.1	62.1	46.0	52.0	49.5	8.3	25.6	16.7	7.8	11.1	9.7
6/22/2004	64.4	82.0	69.8	52.0	70.0	63.7	18.0	27.8	21.0	11.1	21.1	17.6
6/23/2004	60.1	81.0	70.9	55.0	66.0	58.6	15.6	27.2	21.6	12.8	18.9	14.8
6/24/2004	54.0	82.9	66.4	53.6	61.0	57.7	12.2	28.3	19.1	12.0	16.1	14.3
6/25/2004	62.6	79.0	68.2	54.0	64.9	60.1	17.0	26.1	20.1	12.2	18.3	15.6
6/26/2004	61.0	75.0	66.4	48.2	64.9	57.9	16.1	23.9	19.1	9.0	18.3	14.4
6/27/2004	46.9	75.0	62.2	46.0	53.6	49.3	8.3	23.9	16.8	7.8	12.0	9.6
6/28/2004	52.0	71.1	60.8	51.1	63.0	56.5	11.1	21.7	16.0	10.6	17.2	13.6
6/29/2004	55.4	75.9	63.9	54.0	63.0	56.5	13.0	24.4	17.7	12.2	17.2	13.6
6/30/2004	55.9	81.0	66.9	55.0	64.4	57.7	13.3	27.2	19.4	12.8	18.0	14.3
7/1/2004	55.9	82.0	68.4	55.9	71.1	61.9	13.3	27.8	20.2	13.3	21.7	16.6
7/2/2004	57.9	84.9	71.8	57.9	66.0	61.9	14.4	29.4	22.1	14.4	18.9	16.6
7/3/2004	55.0	82.0	69.8	54.0	64.9	58.3	12.8	27.8	21.0	12.2	18.3	14.6
7/4/2004	64.0	79.0	72.1	62.1	71.6	65.7	17.8	26.1	22.3	16.7	22.0	18.7
7/5/2004	70.0	87.1	75.9	66.2	73.4	70.0	21.1	30.6	24.4	19.0	23.0	21.1
7/6/2004	64.0	82.0	72.5	55.4	69.1	60.1	17.8	27.8	22.5	13.0	20.6	15.6
7/7/2004	63.0	84.0	72.1	62.1	73.0	66.4	17.2	28.9	22.3	16.7	22.8	19.1
7/8/2004	66.2	82.0	70.5	59.0	72.0	66.7	19.0	27.8	21.4	15.0	22.2	19.3
7/9/2004	63.0	77.0	70.0	57.0	62.1	58.1	17.2	25.0	21.1	13.9	16.7	14.5
7/10/2004	55.4	81.0	66.7	55.4	66.2	59.2	13.0	27.2	19.3	13.0	19.0	15.1
7/11/2004	62.1	84.9	72.1	61.0	66.9	64.0	16.7	29.4	22.3	16.1	19.4	17.8
7/12/2004	68.0	80.1	70.2	66.0	70.0	67.8	20.0	26.7	21.2	18.9	21.1	19.9
7/13/2004	66.0	79.0	69.8	64.0	68.0	65.8	18.9	26.1	21.0	17.8	20.0	18.8
7/14/2004	66.2	75.9	70.0	64.4	69.8	67.5	19.0	24.4	21.1	18.0	21.0	19.7
7/15/2004	60.1	73.9	66.4	57.0	68.0	61.9	15.6	23.3	19.1	13.9	20.0	16.6
7/16/2004	62.6	80.1	68.0	57.0	66.9	61.7	17.0	26.7	20.0	13.9	19.4	16.5
7/17/2004	60.1	81.0	68.9	60.1	66.9	62.6	15.6	27.2	20.5	15.6	19.4	17.0
7/18/2004	64.9	75.0	68.4	63.0	66.9	64.6	18.3	23.9	20.2	17.2	19.4	18.1
7/19/2004	62.1	80.1	68.5	61.0	64.4	62.8	16.7	26.7	20.3	16.1	18.0	17.1
7/20/2004	62.6	82.0	69.8	60.1	64.4	62.8	17.0	27.8	21.0	15.6	18.0	17.1
7/21/2004	60.8	84.9	69.8	60.8	70.0	63.9	16.0	29.4	21.0	16.0	21.1	17.7
7/22/2004	66.0	87.1	75.2	66.0	71.6	68.7	18.9	30.6	24.0	18.9	22.0	20.4
7/23/2004	69.8	80.1	73.4	68.0	73.4	70.3	21.0	26.7	23.0	20.0	23.0	21.3
7/24/2004	60.1	75.9	67.8	45.0	68.0	56.7	15.6	24.4	19.9	7.2	20.0	13.7
7/25/2004	57.0	78.1	66.0	52.0	64.4	57.2	13.9	25.6	18.9	11.1	18.0	14.0
7/26/2004	64.0	72.0	67.5	60.1	66.2	63.7	17.8	22.2	19.7	15.6	19.0	17.6
7/27/2004	60.8	69.8	64.8	59.0	68.0	62.6	16.0	21.0	18.2	15.0	20.0	17.0
7/28/2004	66.2	78.8	69.6	62.1	66.9	66.0	19.0	26.0	20.9	16.7	19.4	18.9
7/29/2004	57.2	79.0	64.2	57.2	66.2	60.4	14.0	26.1	17.9	14.0	19.0	15.8

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (^{o}F)	Max T (^{o}F)	Aver T (^{o}F)	Min T_d (^{o}F)	Max T_d (^{o}F)	Aver T_d (^{o}F)	Min T (^{o}C)	Max T (^{o}C)	Aver T (^{o}C)	Min T_d (^{o}C)	Max T_d (^{o}C)	Aver T_d (^{o}C)
7/30/2004	62.6	82.0	70.0	60.8	71.6	65.1	17.0	27.8	21.1	16.0	22.0	18.4
7/31/2004	70.0	81.0	74.3	66.2	72.0	70.3	21.1	27.2	23.5	19.0	22.2	21.3
8/1/2004	69.1	84.9	74.5	68.0	71.6	69.3	20.6	29.4	23.6	20.0	22.0	20.7
8/2/2004	66.2	86.0	71.8	64.0	69.8	66.6	19.0	30.0	22.1	17.8	21.0	19.2
8/3/2004	64.4	89.1	72.7	60.8	69.8	65.5	18.0	31.7	22.6	16.0	21.0	18.6
8/4/2004	66.0	82.4	72.0	61.0	69.1	66.0	18.9	28.0	22.2	16.1	20.6	18.9
8/5/2004	63.0	75.0	68.0	51.8	68.0	60.4	17.2	23.9	20.0	11.0	20.0	15.8
8/6/2004	51.1	66.9	58.6	46.0	55.4	49.5	10.6	19.4	14.8	7.8	13.0	9.7
8/7/2004	53.1	66.0	59.2	46.0	55.9	50.7	11.7	18.9	15.1	7.8	13.3	10.4
8/8/2004	53.1	77.0	64.0	51.1	61.0	53.4	11.7	25.0	17.8	10.6	16.1	11.9
8/9/2004	53.6	81.0	65.5	48.0	60.8	55.2	12.0	27.2	18.6	8.9	16.0	12.9
8/10/2004	59.0	82.4	68.7	57.2	69.8	62.4	15.0	28.0	20.4	14.0	21.0	16.9
8/11/2004	64.4	82.4	69.3	57.9	66.9	64.6	18.0	28.0	20.7	14.4	19.4	18.1
8/12/2004	62.6	75.0	66.4	57.9	64.9	62.6	17.0	23.9	19.1	14.4	18.3	17.0
8/13/2004	62.1	77.0	65.7	60.8	64.4	62.2	16.7	25.0	18.7	16.0	18.0	16.8
8/14/2004	60.1	73.9	66.9	51.8	60.8	57.4	15.6	23.3	19.4	11.0	16.0	14.1
8/15/2004	60.1	79.0	67.3	57.0	61.0	59.0	15.6	26.1	19.6	13.9	16.1	15.0
8/16/2004	59.0	77.0	66.4	57.2	63.0	60.3	15.0	25.0	19.1	14.0	17.2	15.7
8/17/2004	57.2	77.0	63.7	55.4	63.0	57.9	14.0	25.0	17.6	13.0	17.2	14.4
8/18/2004	59.0	80.1	66.7	57.9	64.4	60.8	15.0	26.7	19.3	14.4	18.0	16.0
8/19/2004	64.0	77.0	69.8	61.0	68.0	64.4	17.8	25.0	21.0	16.1	20.0	18.0
8/20/2004	66.0	82.9	70.2	64.4	69.8	66.6	18.9	28.3	21.2	18.0	21.0	19.2
8/21/2004	64.4	71.1	68.5	57.0	68.0	64.8	18.0	21.7	20.3	13.9	20.0	18.2
8/22/2004	51.8	73.0	59.7	48.2	61.0	53.1	11.0	22.8	15.4	9.0	16.1	11.7
8/23/2004	53.1	82.0	60.4	51.8	66.0	55.8	11.7	27.8	15.8	11.0	18.9	13.2
8/24/2004	60.8	80.1	68.9	60.8	68.0	63.7	16.0	26.7	20.5	16.0	20.0	17.6
8/25/2004	68.0	77.0	71.2	61.0	68.0	64.6	20.0	25.0	21.8	16.1	20.0	18.1
8/26/2004	64.9	78.1	70.9	57.0	64.9	61.7	18.3	25.6	21.6	13.9	18.3	16.5
8/27/2004	71.1	82.9	75.4	64.0	70.0	67.3	21.7	28.3	24.1	17.8	21.1	19.6
8/28/2004	66.2	84.0	72.9	66.0	72.0	68.5	19.0	28.9	22.7	18.9	22.2	20.3
8/29/2004	68.0	86.0	74.8	66.2	72.0	69.6	20.0	30.0	23.8	19.0	22.2	20.9
8/30/2004	72.0	84.0	77.0	66.0	70.0	68.5	22.2	28.9	25.0	18.9	21.1	20.3
8/31/2004	68.0	80.1	72.7	55.0	69.8	61.7	20.0	26.7	22.6	12.8	21.0	16.5
9/1/2004	57.0	79.0	65.3	55.0	60.1	57.2	13.9	26.1	18.5	12.8	15.6	14.0
9/2/2004	53.6	77.0	63.1	50.0	59.0	54.9	12.0	25.0	17.3	10.0	15.0	12.7
9/3/2004	55.4	79.0	64.4	55.0	62.6	58.1	13.0	26.1	18.0	12.8	17.0	14.5
9/4/2004	59.0	82.9	66.6	57.2	66.2	61.0	15.0	28.3	19.2	14.0	19.0	16.1
9/5/2004	62.1	75.9	66.6	60.8	66.0	62.8	16.7	24.4	19.2	16.0	18.9	17.1
9/6/2004	60.1	75.0	66.0	53.1	61.0	56.1	15.6	23.9	18.9	11.7	16.1	13.4
9/7/2004	66.2	77.0	70.3	60.1	68.0	62.2	19.0	25.0	21.3	15.6	20.0	16.8
9/8/2004	66.2	73.0	69.4	64.4	69.8	66.9	19.0	22.8	20.8	18.0	21.0	19.4
9/9/2004	66.2	75.9	71.6	60.8	71.6	68.4	19.0	24.4	22.0	16.0	22.0	20.2
9/10/2004	60.1	78.1	67.5	55.0	62.1	59.2	15.6	25.6	19.7	12.8	16.7	15.1
9/11/2004	55.4	77.0	61.9	53.6	63.0	56.5	13.0	25.0	16.6	12.0	17.2	13.6

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
9/12/2004	57.0	75.9	66.0	55.0	63.0	59.7	13.9	24.4	18.9	12.8	17.2	15.4
9/13/2004	60.1	82.9	66.0	57.9	64.0	61.0	15.6	28.3	18.9	14.4	17.8	16.1
9/14/2004	55.9	73.4	64.8	55.0	63.0	59.4	13.3	23.0	18.2	12.8	17.2	15.2
9/15/2004	61.0	70.0	65.8	55.0	62.6	58.8	16.1	21.1	18.8	12.8	17.0	14.9
9/16/2004	63.0	73.9	67.5	60.1	64.4	62.4	17.2	23.3	19.7	15.6	18.0	16.9
9/17/2004	60.8	70.0	64.9	57.9	66.9	63.1	16.0	21.1	18.3	14.4	19.4	17.3
9/18/2004	57.0	69.1	61.3	41.0	59.0	53.2	13.9	20.6	16.3	5.0	15.0	11.8
9/19/2004	48.0	68.0	56.5	36.0	43.0	40.5	8.9	20.0	13.6	2.2	6.1	4.7
9/20/2004	42.1	70.0	53.2	39.9	55.0	43.5	5.6	21.1	11.8	4.4	12.8	6.4
9/21/2004	50.0	78.1	56.7	48.0	63.0	50.9	10.0	25.6	13.7	8.9	17.2	10.5
9/22/2004	51.1	82.0	59.2	48.2	62.1	53.1	10.6	27.8	15.1	9.0	16.7	11.7
9/23/2004	53.1	82.9	65.1	52.0	66.0	57.0	11.7	28.3	18.4	11.1	18.9	13.9
9/24/2004	59.0	80.1	64.6	57.2	64.9	61.5	15.0	26.7	18.1	14.0	18.3	16.4
9/25/2004	57.9	77.0	64.8	57.2	66.2	60.4	14.4	25.0	18.2	14.0	19.0	15.8
9/26/2004	55.9	73.0	65.5	51.1	66.0	56.3	13.3	22.8	18.6	10.6	18.9	13.5
9/27/2004	51.1	71.1	55.9	50.0	61.0	53.1	10.6	21.7	13.3	10.0	16.1	11.7
9/28/2004	62.6	69.1	63.9	60.1	63.0	62.1	17.0	20.6	17.7	15.6	17.2	16.7
9/29/2004	59.0	70.0	63.5	51.8	61.0	55.2	15.0	21.1	17.5	11.0	16.1	12.9
9/30/2004	55.4	66.9	59.7	45.0	57.2	53.8	13.0	19.4	15.4	7.2	14.0	12.1
10/1/2004	46.0	69.1	52.7	46.0	53.6	48.6	7.8	20.6	11.5	7.8	12.0	9.2
10/2/2004	55.0	69.1	63.7	51.1	63.0	58.8	12.8	20.6	17.6	10.6	17.2	14.9
10/3/2004	44.1	64.4	53.1	33.1	62.1	45.1	6.7	18.0	11.7	0.6	16.7	7.3
10/4/2004	42.8	70.0	48.7	42.1	51.1	44.6	6.0	21.1	9.3	5.6	10.6	7.0
10/5/2004	39.0	59.0	49.8	30.2	44.1	37.4	3.9	15.0	9.9	-1.0	6.7	3.0
10/6/2004	35.1	64.9	44.6	34.0	48.0	38.5	1.7	18.3	7.0	1.1	8.9	3.6
10/7/2004	41.0	73.9	52.9	39.0	55.9	44.4	5.0	23.3	11.6	3.9	13.3	6.9
10/8/2004	48.2	73.0	55.4	46.4	55.0	50.2	9.0	22.8	13.0	8.0	12.8	10.1
10/9/2004	51.1	69.1	59.5	48.2	55.4	52.0	10.6	20.6	15.3	9.0	13.0	11.1
10/10/2004	48.0	62.1	53.1	39.9	57.0	48.7	8.9	16.7	11.7	4.4	13.9	9.3
10/11/2004	46.4	57.9	52.2	35.6	41.0	37.8	8.0	14.4	11.2	2.0	5.0	3.2
10/12/2004	39.0	66.0	50.0	32.0	39.2	36.1	3.9	18.9	10.0	0.0	4.0	2.3
10/13/2004	35.6	61.0	46.8	35.1	46.9	39.4	2.0	16.1	8.2	1.7	8.3	4.1
10/14/2004	48.9	54.0	51.1	44.1	50.0	48.2	9.4	12.2	10.6	6.7	10.0	9.0
10/15/2004	50.0	60.8	54.5	46.4	55.9	51.4	10.0	16.0	12.5	8.0	13.3	10.8
10/16/2004	44.6	54.0	49.8	35.6	46.9	42.4	7.0	12.2	9.9	2.0	8.3	5.8
10/17/2004	42.1	48.9	45.3	30.2	37.0	33.1	5.6	9.4	7.4	-1.0	2.8	0.6
10/18/2004	44.1	55.4	48.0	33.1	44.6	37.0	6.7	13.0	8.9	0.6	7.0	2.8
10/19/2004	46.0	50.0	47.3	44.1	46.9	45.3	7.8	10.0	8.5	6.7	8.3	7.4
10/20/2004	46.4	48.2	47.5	44.6	46.4	45.9	8.0	9.0	8.6	7.0	8.0	7.7
10/21/2004	Bad or missing data											
10/22/2004	44.6	51.1	48.2	42.8	46.0	43.9	7.0	10.6	9.0	6.0	7.8	6.6
10/23/2004	35.1	55.0	41.9	35.1	43.0	38.7	1.7	12.8	5.5	1.7	6.1	3.7
10/24/2004	41.0	48.9	45.0	37.0	41.0	39.2	5.0	9.4	7.2	2.8	5.0	4.0
10/25/2004	46.0	61.0	49.6	41.0	48.9	44.6	7.8	16.1	9.8	5.0	9.4	7.0

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
10/26/2004	48.2	57.9	53.2	42.1	48.9	46.8	9.0	14.4	11.8	5.6	9.4	8.2
10/27/2004	42.1	62.1	48.2	39.9	46.0	43.2	5.6	16.7	9.0	4.4	7.8	6.2
10/28/2004	46.0	60.1	53.8	37.9	45.0	40.8	7.8	15.6	12.1	3.3	7.2	4.9
10/29/2004	39.2	55.4	47.5	37.0	50.0	42.6	4.0	13.0	8.6	2.8	10.0	5.9
10/30/2004	53.1	64.4	56.7	50.0	59.0	53.8	11.7	18.0	13.7	10.0	15.0	12.1
10/31/2004	57.0	66.9	63.1	39.0	59.0	48.9	13.9	19.4	17.3	3.9	15.0	9.4
11/1/2004	46.9	57.9	51.8	37.9	42.8	40.3	8.3	14.4	11.0	3.3	6.0	4.6
11/2/2004	46.9	64.0	53.6	37.4	53.6	41.9	8.3	17.8	12.0	3.0	12.0	5.5
11/3/2004	44.6	59.0	52.7	26.1	55.9	43.3	7.0	15.0	11.5	-3.3	13.3	6.3
11/4/2004	32.0	44.6	37.8	28.9	41.0	33.1	0.0	7.0	3.2	-1.7	5.0	0.6
11/5/2004	42.1	51.8	45.9	21.9	43.0	34.0	5.6	11.0	7.7	-5.6	6.1	1.1
11/6/2004	30.0	60.8	44.4	23.0	35.1	29.8	-1.1	16.0	6.9	-5.0	1.7	-1.2
11/7/2004	33.8	69.1	47.7	32.0	44.6	37.2	1.0	20.6	8.7	0.0	7.0	2.9
11/8/2004	37.0	62.1	44.8	12.9	42.1	25.2	2.8	16.7	7.1	-10.6	5.6	-3.8
11/9/2004	28.0	41.0	34.5	15.1	30.9	23.0	-2.2	5.0	1.4	-9.4	-0.6	-5.0
11/10/2004	23.0	45.0	32.7	19.0	26.1	21.2	-5.0	7.2	0.4	-7.2	-3.3	-6.0
11/11/2004	37.4	54.0	44.4	27.0	39.9	32.2	3.0	12.2	6.9	-2.8	4.4	0.1
11/12/2004	35.6	44.1	37.2	30.0	35.1	33.3	2.0	6.7	2.9	-1.1	1.7	0.7
11/13/2004	30.2	41.0	36.1	12.9	32.0	23.0	-1.0	5.0	2.3	-10.6	0.0	-5.0
11/14/2004	26.1	46.9	34.2	14.0	26.6	20.8	-3.3	8.3	1.2	-10.0	-3.0	-6.2
11/15/2004	24.8	54.0	36.0	21.2	34.0	25.9	-4.0	12.2	2.2	-6.0	1.1	-3.4
11/16/2004	30.2	57.0	41.4	24.1	33.1	28.4	-1.0	13.9	5.2	-4.4	0.6	-2.0
11/17/2004	35.1	54.0	43.9	28.9	43.0	34.7	1.7	12.2	6.6	-1.7	6.1	1.5
11/18/2004	44.6	52.0	47.5	42.1	48.9	45.7	7.0	11.1	8.6	5.6	9.4	7.6
11/19/2004	44.1	57.9	48.2	44.1	48.9	46.2	6.7	14.4	9.0	6.7	9.4	7.9
11/20/2004	46.0	51.1	47.7	42.1	46.4	44.8	7.8	10.6	8.7	5.6	8.0	7.1
11/21/2004	48.0	55.9	50.2	41.0	50.0	46.9	8.9	13.3	10.1	5.0	10.0	8.3
11/22/2004	36.0	48.9	41.7	35.1	41.0	36.7	2.2	9.4	5.4	1.7	5.0	2.6
11/23/2004	32.0	46.9	37.6	30.2	42.8	34.9	0.0	8.3	3.1	-1.0	6.0	1.6
11/24/2004	45.0	55.9	50.2	41.0	53.6	48.2	7.2	13.3	10.1	5.0	12.0	9.0
11/25/2004	35.6	63.0	54.1	19.4	57.9	48.0	2.0	17.2	12.3	-7.0	14.4	8.9
11/26/2004	30.2	42.1	35.2	15.1	24.8	20.3	-1.0	5.6	1.8	-9.4	-4.0	-6.5
11/27/2004	39.0	48.9	43.2	17.6	35.6	24.1	3.9	9.4	6.2	-8.0	2.0	-4.4
11/28/2004	44.1	54.0	50.4	30.0	50.0	43.9	6.7	12.2	10.2	-1.1	10.0	6.6
11/29/2004	35.1	44.1	39.2	23.0	30.0	25.7	1.7	6.7	4.0	-5.0	-1.1	-3.5
11/30/2004	34.0	46.9	39.0	28.0	32.0	30.0	1.1	8.3	3.9	-2.2	0.0	-1.1
12/1/2004	41.0	48.9	44.8	26.1	44.1	36.9	5.0	9.4	7.1	-3.3	6.7	2.7
12/2/2004	33.8	42.1	37.8	24.1	28.9	26.2	1.0	5.6	3.2	-4.4	-1.7	-3.2
12/3/2004	26.1	44.6	31.8	14.0	30.0	24.6	-3.3	7.0	-0.1	-10.0	-1.1	-4.1
12/4/2004	21.0	43.0	30.7	15.1	24.8	20.1	-6.1	6.1	-0.7	-9.4	-4.0	-6.6
12/5/2004	35.1	52.0	42.1	24.1	34.0	28.6	1.7	11.1	5.6	-4.4	1.1	-1.9
12/6/2004	28.9	37.4	33.8	21.2	37.4	29.7	-1.7	3.0	1.0	-6.0	3.0	-1.3
12/7/2004	37.9	44.6	41.2	37.0	42.8	39.0	3.3	7.0	5.1	2.8	6.0	3.9
12/8/2004	42.8	54.0	46.2	30.9	44.6	40.8	6.0	12.2	7.9	-0.6	7.0	4.9

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (^{o}F)	Max T (^{o}F)	Aver T (^{o}F)	Min T_d (^{o}F)	Max T_d (^{o}F)	Aver T_d (^{o}F)	Min T (^{o}C)	Max T (^{o}C)	Aver T (^{o}C)	Min T_d (^{o}C)	Max T_d (^{o}C)	Aver T_d (^{o}C)
12/9/2004	30.2	43.0	37.0	28.4	37.4	32.0	-1.0	6.1	2.8	-2.0	3.0	0.0
12/10/2004	39.2	45.0	42.4	37.4	42.8	40.6	4.0	7.2	5.8	3.0	6.0	4.8
12/11/2004	41.0	45.0	42.8	32.0	42.8	39.9	5.0	7.2	6.0	0.0	6.0	4.4
12/12/2004	35.1	41.0	37.6	26.1	32.0	29.3	1.7	5.0	3.1	-3.3	0.0	-1.5
12/13/2004	33.8	39.2	36.5	21.0	33.1	27.7	1.0	4.0	2.5	-6.1	0.6	-2.4
12/14/2004	24.8	33.8	30.6	10.0	28.0	19.0	-4.0	1.0	-0.8	-12.2	-2.2	-7.2
12/15/2004	19.4	34.0	25.9	5.0	19.0	13.3	-7.0	1.1	-3.4	-15.0	-7.2	-10.4
12/16/2004	17.1	37.0	26.6	12.9	19.9	16.0	-8.3	2.8	-3.0	-10.6	-6.7	-8.9
12/17/2004	26.6	37.4	35.1	14.0	27.0	19.2	-3.0	3.0	1.7	-10.0	-2.8	-7.1
12/18/2004	19.0	35.1	25.7	14.0	21.2	17.4	-7.2	1.7	-3.5	-10.0	-6.0	-8.1
12/19/2004	19.4	37.0	29.1	9.0	28.9	22.6	-7.0	2.8	-1.6	-12.8	-1.7	-5.2
12/20/2004	0.0	19.4	9.7	-13.0	12.2	-5.8	-17.8	-7.0	-12.4	-25.0	-11.0	-21.0
12/21/2004	9.0	32.0	18.7	-8.0	10.4	1.4	-12.8	0.0	-7.4	-22.2	-12.0	-17.0
12/22/2004	23.0	44.1	30.7	10.9	28.4	18.7	-5.0	6.7	-0.7	-11.7	-2.0	-7.4
12/23/2004	34.0	55.4	47.7	24.8	52.0	41.2	1.1	13.0	8.7	-4.0	11.1	5.1
12/24/2004	23.0	36.0	27.9	8.1	24.1	12.9	-5.0	2.2	-2.3	-13.3	-4.4	-10.6
12/25/2004	14.0	24.1	19.0	3.0	14.0	6.6	-10.0	-4.4	-7.2	-16.1	-10.0	-14.1
12/26/2004	12.2	27.0	18.1	8.1	12.9	10.0	-11.0	-2.8	-7.7	-13.3	-10.6	-12.2
12/27/2004	16.0	28.0	21.2	-7.1	15.1	3.7	-8.9	-2.2	-6.0	-21.7	-9.4	-15.7
12/28/2004	8.6	28.4	16.2	-4.0	10.4	5.2	-13.0	-2.0	-8.8	-20.0	-12.0	-14.9
12/29/2004	26.1	36.0	30.7	10.9	24.8	17.1	-3.3	2.2	-0.7	-11.7	-4.0	-8.3
12/30/2004	32.0	42.8	36.0	24.1	32.0	28.9	0.0	6.0	2.2	-4.4	0.0	-1.7
12/31/2004	41.0	48.9	36.0	30.9	39.2	28.9	5.0	9.4	2.2	-0.6	4.0	-1.7
1/1/2005	36.0	57.2	45.0	25.0	41.0	34.5	2.2	14.0	7.2	-3.9	5.0	1.4
1/2/2005	28.0	41.0	35.8	24.1	33.8	27.1	-2.2	5.0	2.1	-4.4	1.0	-2.7
1/3/2005	37.4	42.8	39.6	33.1	41.0	38.1	3.0	6.0	4.2	0.6	5.0	3.4
1/4/2005	39.2	46.0	42.3	37.0	42.8	39.7	4.0	7.8	5.7	2.8	6.0	4.3
1/5/2005	30.2	44.1	34.3	26.6	37.0	31.6	-1.0	6.7	1.3	-3.0	2.8	-0.2
1/6/2005	28.4	36.0	31.6	26.6	33.8	29.8	-2.0	2.2	-0.2	-3.0	1.0	-1.2
1/7/2005	28.4	39.0	33.8	18.0	33.8	24.3	-2.0	3.9	1.0	-7.8	1.0	-4.3
1/8/2005	28.9	37.9	34.2	23.0	34.0	30.2	-1.7	3.3	1.2	-5.0	1.1	-1.0
1/9/2005	32.0	37.0	33.4	24.1	28.9	26.4	0.0	2.8	0.8	-4.4	-1.7	-3.1
1/10/2005	34.0	41.0	36.7	26.6	33.8	29.8	1.1	5.0	2.6	-3.0	1.0	-1.2
1/11/2005	28.0	35.1	31.5	26.1	30.9	28.8	-2.2	1.7	-0.3	-3.3	-0.6	-1.8
1/12/2005	33.1	39.2	36.7	30.9	37.4	34.7	0.6	4.0	2.6	-0.6	3.0	1.5
1/13/2005	39.0	62.6	45.0	37.0	55.4	43.0	3.9	17.0	7.2	2.8	13.0	6.1
1/14/2005	33.8	64.4	47.8	17.1	55.9	41.5	1.0	18.0	8.8	-8.3	13.3	5.3
1/15/2005	19.4	33.1	25.5	5.0	19.0	11.3	-7.0	0.6	-3.6	-15.0	-7.2	-11.5
1/16/2005	21.0	28.4	25.2	14.0	24.8	19.8	-6.1	-2.0	-3.8	-10.0	-4.0	-6.8
1/17/2005	15.1	26.6	21.0	1.0	24.8	13.5	-9.4	-3.0	-6.1	-17.2	-4.0	-10.3
1/18/2005	6.1	15.1	10.0	-11.0	3.0	-6.0	-14.4	-9.4	-12.2	-23.9	-16.1	-21.1
1/19/2005	6.1	19.4	14.4	-9.0	14.0	5.4	-14.4	-7.0	-9.8	-22.8	-10.0	-14.8
1/20/2005	12.2	27.0	19.8	1.0	16.0	12.6	-11.0	-2.8	-6.8	-17.2	-8.9	-10.8
1/21/2005	5.0	21.0	11.8	-9.0	3.9	-3.3	-15.0	-6.1	-11.2	-22.8	-15.6	-19.6

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
1/22/2005	1.0	17.6	8.2	-8.0	14.0	0.7	-17.2	-8.0	-13.2	-22.2	-10.0	-17.4
1/23/2005	10.0	17.6	14.0	-7.6	15.8	5.9	-12.2	-8.0	-10.0	-22.0	-9.0	-14.5
1/24/2005	-2.0	17.6	9.7	-8.0	12.2	2.3	-18.9	-8.0	-12.4	-22.2	-11.0	-16.5
1/25/2005	17.1	30.9	24.3	10.0	21.0	16.3	-8.3	-0.6	-4.3	-12.2	-6.1	-8.7
1/26/2005	19.4	32.0	29.5	8.6	24.8	20.8	-7.0	0.0	-1.4	-13.0	-4.0	-6.2
1/27/2005	6.8	19.9	12.6	-6.0	8.1	-1.8	-14.0	-6.7	-10.8	-21.1	-13.3	-18.8
1/28/2005	-4.0	23.0	6.6	-9.0	5.0	-2.9	-20.0	-5.0	-14.1	-22.8	-15.0	-19.4
1/29/2005	1.0	27.0	11.1	-2.9	8.6	1.8	-17.2	-2.8	-11.6	-19.4	-13.0	-16.8
1/30/2005	24.1	39.0	28.9	7.0	19.9	14.9	-4.4	3.9	-1.7	-13.9	-6.7	-9.5
1/31/2005	12.2	34.0	23.5	10.0	17.1	14.2	-11.0	1.1	-4.7	-12.2	-8.3	-9.9
2/1/2005	10.0	36.0	20.7	6.1	19.9	12.6	-12.2	2.2	-6.3	-14.4	-6.7	-10.8
2/2/2005	10.0	37.9	21.2	6.8	19.0	13.5	-12.2	3.3	-6.0	-14.0	-7.2	-10.3
2/3/2005	21.0	36.0	27.9	14.0	27.0	17.4	-6.1	2.2	-2.3	-10.0	-2.8	-8.1
2/4/2005	28.0	46.9	35.1	17.1	27.0	24.4	-2.2	8.3	1.7	-8.3	-2.8	-4.2
2/5/2005	23.0	48.9	32.5	19.4	28.9	22.6	-5.0	9.4	0.3	-7.0	-1.7	-5.2
2/6/2005	21.0	50.0	32.9	19.0	28.0	24.1	-6.1	10.0	0.5	-7.2	-2.2	-4.4
2/7/2005	24.8	50.0	36.1	23.0	28.9	25.7	-4.0	10.0	2.3	-5.0	-1.7	-3.5
2/8/2005	33.8	43.0	38.1	26.1	37.0	31.5	1.0	6.1	3.4	-3.3	2.8	-0.3
2/9/2005	35.6	42.8	39.0	35.1	41.0	37.4	2.0	6.0	3.9	1.7	5.0	3.0
2/10/2005	30.2	41.0	37.0	17.6	39.9	32.7	-1.0	5.0	2.8	-8.0	4.4	0.4
2/11/2005	23.0	39.9	30.4	5.0	18.0	10.9	-5.0	4.4	-0.9	-15.0	-7.8	-11.7
2/12/2005	28.0	37.9	32.4	12.9	28.4	22.3	-2.2	3.3	0.2	-10.6	-2.0	-5.4
2/13/2005	26.6	39.0	32.5	7.0	24.1	14.7	-3.0	3.9	0.3	-13.9	-4.4	-9.6
2/14/2005	30.9	39.2	33.8	10.9	37.4	23.7	-0.6	4.0	1.0	-11.7	3.0	-4.6
2/15/2005	39.0	53.1	43.3	33.8	41.0	37.2	3.9	11.7	6.3	1.0	5.0	2.9
2/16/2005	34.0	50.0	40.6	21.9	37.9	34.0	1.1	10.0	4.8	-5.6	3.3	1.1
2/17/2005	26.1	37.0	30.6	14.0	28.4	21.7	-3.3	2.8	-0.8	-10.0	-2.0	-5.7
2/18/2005	19.4	28.0	23.4	1.9	21.0	8.2	-7.0	-2.2	-4.8	-16.7	-6.1	-13.2
2/19/2005	15.8	30.9	21.7	1.9	14.0	7.2	-9.0	-0.6	-5.7	-16.7	-10.0	-13.8
2/20/2005	24.8	33.8	29.7	12.0	26.6	17.8	-4.0	1.0	-1.3	-11.1	-3.0	-7.9
2/21/2005	30.0	34.0	30.9	26.1	32.0	28.2	-1.1	1.1	-0.6	-3.3	0.0	-2.1
2/22/2005	32.0	37.9	34.7	24.8	32.0	29.7	0.0	3.3	1.5	-4.0	0.0	-1.3
2/23/2005	28.4	37.0	32.7	12.9	32.0	24.8	-2.0	2.8	0.4	-10.6	0.0	-4.0
2/24/2005	21.2	30.9	25.0	12.0	21.9	16.7	-6.0	-0.6	-3.9	-11.1	-5.6	-8.5
2/25/2005	16.0	30.9	21.9	10.9	21.9	17.6	-8.9	-0.6	-5.6	-11.7	-5.6	-8.0
2/26/2005	17.6	37.0	24.4	6.8	28.4	17.6	-8.0	2.8	-4.2	-14.0	-2.0	-8.0
2/27/2005	14.0	33.1	23.9	6.1	12.9	8.1	-10.0	0.6	-4.5	-14.4	-10.6	-13.3
2/28/2005	26.1	30.9	28.8	8.1	28.4	19.4	-3.3	-0.6	-1.8	-13.3	-2.0	-7.0
3/1/2005	26.1	34.0	27.9	21.2	28.4	25.0	-3.3	1.1	-2.3	-6.0	-2.0	-3.9
3/2/2005	24.8	32.0	27.7	12.9	26.6	19.6	-4.0	0.0	-2.4	-10.6	-3.0	-6.9
3/3/2005	15.8	30.9	22.6	5.0	14.0	7.3	-9.0	-0.6	-5.2	-15.0	-10.0	-13.7
3/4/2005	10.0	32.0	22.1	3.9	12.2	8.1	-12.2	0.0	-5.5	-15.6	-11.0	-13.3
3/5/2005	8.6	41.0	23.7	6.1	19.4	10.8	-13.0	5.0	-4.6	-14.4	-7.0	-11.8
3/6/2005	15.1	45.0	28.9	10.0	28.9	18.3	-9.4	7.2	-1.7	-12.2	-1.7	-7.6

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
3/7/2005	28.0	55.9	39.6	26.6	37.4	29.3	-2.2	13.3	4.2	-3.0	3.0	-1.5
3/8/2005	19.4	46.9	30.7	-2.2	41.0	24.3	-7.0	8.3	-0.7	-19.0	5.0	-4.3
3/9/2005	15.1	26.1	19.4	-4.0	7.0	3.2	-9.4	-3.3	-7.0	-20.0	-13.9	-16.0
3/10/2005	8.6	28.9	20.5	1.9	10.9	6.8	-13.0	-1.7	-6.4	-16.7	-11.7	-14.0
3/11/2005	24.1	37.0	28.8	7.0	33.8	22.6	-4.4	2.8	-1.8	-13.9	1.0	-5.2
3/12/2005	19.9	34.0	30.4	17.1	33.8	25.7	-6.7	1.1	-0.9	-8.3	1.0	-3.5
3/13/2005	17.1	37.0	28.6	15.1	32.0	21.6	-8.3	2.8	-1.9	-9.4	0.0	-5.8
3/14/2005	19.9	36.0	28.6	9.0	19.9	12.7	-6.7	2.2	-1.9	-12.8	-6.7	-10.7
3/15/2005	23.0	41.0	30.6	8.1	15.1	12.0	-5.0	5.0	-0.8	-13.3	-9.4	-11.1
3/16/2005	19.9	43.0	29.8	10.9	19.9	15.6	-6.7	6.1	-1.2	-11.7	-6.7	-9.1
3/17/2005	23.0	48.0	32.5	14.0	24.8	18.7	-5.0	8.9	0.3	-10.0	-4.0	-7.4
3/18/2005	28.0	46.9	37.4	19.0	27.0	23.2	-2.2	8.3	3.0	-7.2	-2.8	-4.9
3/19/2005	25.0	50.0	36.3	19.9	30.2	22.6	-3.9	10.0	2.4	-6.7	-1.0	-5.2
3/20/2005	37.9	42.8	41.2	27.0	41.0	36.0	3.3	6.0	5.1	-2.8	5.0	2.2
3/21/2005	37.4	42.1	39.9	28.0	39.9	32.9	3.0	5.6	4.4	-2.2	4.4	0.5
3/22/2005	27.0	52.0	39.4	24.1	32.0	27.0	-2.8	11.1	4.1	-4.4	0.0	-2.8
3/23/2005	32.0	42.1	35.4	28.0	36.0	32.4	0.0	5.6	1.9	-2.2	2.2	0.2
3/24/2005	32.0	39.9	33.8	28.4	32.0	31.1	0.0	4.4	1.0	-2.0	0.0	-0.5
3/25/2005	35.6	46.0	38.8	28.0	35.1	32.7	2.0	7.8	3.8	-2.2	1.7	0.4
3/26/2005	28.9	43.0	35.8	26.1	33.1	28.8	-1.7	6.1	2.1	-3.3	0.6	-1.8
3/27/2005	37.0	46.4	40.8	32.0	37.4	33.3	2.8	8.0	4.9	0.0	3.0	0.7
3/28/2005	37.0	45.0	40.5	35.6	42.8	38.7	2.8	7.2	4.7	2.0	6.0	3.7
3/29/2005	42.1	55.0	45.7	35.6	43.0	40.1	5.6	12.8	7.6	2.0	6.1	4.5
3/30/2005	30.0	61.0	44.8	28.9	37.0	33.8	-1.1	16.1	7.1	-1.7	2.8	1.0
3/31/2005	41.0	54.0	47.8	33.1	39.9	35.8	5.0	12.2	8.8	0.6	4.4	2.1
4/1/2005	41.0	64.0	50.5	32.0	43.0	38.7	5.0	17.8	10.3	0.0	6.1	3.7
4/2/2005	46.0	57.9	47.8	35.1	46.9	44.4	7.8	14.4	8.8	1.7	8.3	6.9
4/3/2005	34.0	48.0	41.0	30.2	46.4	37.9	1.1	8.9	5.0	-1.0	8.0	3.3
4/4/2005	37.4	57.9	45.7	14.0	30.9	24.8	3.0	14.4	7.6	-10.0	-0.6	-4.0
4/5/2005	33.1	64.9	48.2	16.0	30.0	25.3	0.6	18.3	9.0	-8.9	-1.1	-3.7
4/6/2005	41.0	80.1	57.4	25.0	43.0	35.8	5.0	26.7	14.1	-3.9	6.1	2.1
4/7/2005	48.0	77.0	59.9	42.1	52.0	45.0	8.9	25.0	15.5	5.6	11.1	7.2
4/8/2005	44.1	64.9	54.5	26.1	53.1	36.9	6.7	18.3	12.5	-3.3	11.7	2.7
4/9/2005	35.1	66.0	50.9	14.0	33.1	26.1	1.7	18.9	10.5	-10.0	0.6	-3.3
4/10/2005	34.0	75.0	52.7	17.6	33.1	27.7	1.1	23.9	11.5	-8.0	0.6	-2.4
4/11/2005	46.9	66.0	54.9	3.2	32.0	17.8	8.3	18.9	12.7	-16.0	0.0	-7.9
4/12/2005	30.9	57.2	44.6	3.9	21.9	13.5	-0.6	14.0	7.0	-15.6	-5.6	-10.3
4/13/2005	30.0	60.1	46.0	9.0	26.1	20.7	-1.1	15.6	7.8	-12.8	-3.3	-6.3
4/14/2005	35.1	64.9	50.5	21.0	30.0	25.0	1.7	18.3	10.3	-6.1	-1.1	-3.9
4/15/2005	37.0	62.1	50.2	8.6	30.9	23.0	2.8	16.7	10.1	-13.0	-0.6	-5.0
4/16/2005	32.0	66.0	48.6	9.0	26.1	19.9	0.0	18.9	9.2	-12.8	-3.3	-6.7
4/17/2005	33.1	75.0	52.7	14.0	28.4	23.2	0.6	23.9	11.5	-10.0	-2.0	-4.9
4/18/2005	42.1	75.0	58.8	21.9	42.8	34.0	5.6	23.9	14.9	-5.6	6.0	1.1
4/19/2005	43.0	82.9	61.7	33.1	44.6	37.9	6.1	28.3	16.5	0.6	7.0	3.3

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
4/20/2005	51.1	82.0	68.2	42.1	48.9	46.2	10.6	27.8	20.1	5.6	9.4	7.9
4/21/2005	44.1	73.0	54.7	19.9	55.9	34.2	6.7	22.8	12.6	-6.7	13.3	1.2
4/22/2005	34.0	55.9	46.0	21.9	42.8	31.8	1.1	13.3	7.8	-5.6	6.0	-0.1
4/23/2005	44.1	59.0	50.0	41.0	53.6	47.3	6.7	15.0	10.0	5.0	12.0	8.5
4/24/2005	37.0	53.6	43.0	28.0	51.8	35.4	2.8	12.0	6.1	-2.2	11.0	1.9
4/25/2005	36.0	48.0	41.0	28.0	33.1	30.7	2.2	8.9	5.0	-2.2	0.6	-0.7
4/26/2005	35.1	69.1	50.2	30.9	37.9	34.2	1.7	20.6	10.1	-0.6	3.3	1.2
4/27/2005	53.1	64.4	58.3	30.0	48.9	41.2	11.7	18.0	14.6	-1.1	9.4	5.1
4/28/2005	46.0	57.9	51.1	26.1	37.9	33.4	7.8	14.4	10.6	-3.3	3.3	0.8
4/29/2005	34.0	55.9	45.3	28.0	39.2	32.4	1.1	13.3	7.4	-2.2	4.0	0.2
4/30/2005	48.0	57.0	52.2	39.0	55.4	48.0	8.9	13.9	11.2	3.9	13.0	8.9
5/1/2005	46.4	57.9	53.1	26.1	54.0	42.4	8.0	14.4	11.7	-3.3	12.2	5.8
5/2/2005	35.6	51.1	43.3	30.0	39.9	34.0	2.0	10.6	6.3	-1.1	4.4	1.1
5/3/2005	30.0	53.1	40.1	26.6	35.1	30.2	-1.1	11.7	4.5	-3.0	1.7	-1.0
5/4/2005	30.9	54.0	43.9	28.9	34.0	31.6	-0.6	12.2	6.6	-1.7	1.1	-0.2
5/5/2005	30.9	63.0	46.9	28.0	34.0	30.9	-0.6	17.2	8.3	-2.2	1.1	-0.6
5/6/2005	39.9	63.0	53.4	26.6	37.0	32.9	4.4	17.2	11.9	-3.0	2.8	0.5
5/7/2005	35.1	69.8	53.8	27.0	34.0	30.9	1.7	21.0	12.1	-2.8	1.1	-0.6
5/8/2005	46.4	70.0	59.7	26.1	33.8	29.8	8.0	21.1	15.4	-3.3	1.0	-1.2
5/9/2005	46.0	81.0	62.6	32.0	37.9	35.2	7.8	27.2	17.0	0.0	3.3	1.8
5/10/2005	51.1	78.1	64.2	36.0	51.8	46.9	10.6	25.6	17.9	2.2	11.0	8.3
5/11/2005	55.9	89.1	71.4	44.1	57.0	51.1	13.3	31.7	21.9	6.7	13.9	10.6
5/12/2005	48.2	78.1	58.8	8.1	54.0	36.5	9.0	25.6	14.9	-13.3	12.2	2.5
5/13/2005	34.0	66.9	49.5	10.9	35.1	26.6	1.1	19.4	9.7	-11.7	1.7	-3.0
5/14/2005	53.1	77.0	63.0	33.1	62.6	48.9	11.7	25.0	17.2	0.6	17.0	9.4
5/15/2005	62.1	73.0	65.7	39.9	64.4	54.7	16.7	22.8	18.7	4.4	18.0	12.6
5/16/2005	44.1	68.0	56.3	32.0	44.1	38.8	6.7	20.0	13.5	0.0	6.7	3.8
5/17/2005	42.1	64.9	54.5	30.0	39.0	34.9	5.6	18.3	12.5	-1.1	3.9	1.6
5/18/2005	39.9	69.1	55.0	26.6	37.4	33.4	4.4	20.6	12.8	-3.0	3.0	0.8
5/19/2005	41.0	70.0	56.3	27.0	42.8	34.7	5.0	21.1	13.5	-2.8	6.0	1.5
5/20/2005	50.0	64.0	55.6	39.0	52.0	46.8	10.0	17.8	13.1	3.9	11.1	8.2
5/21/2005	46.0	71.6	55.4	34.0	48.0	43.2	7.8	22.0	13.0	1.1	8.9	6.2
5/22/2005	51.8	63.0	55.8	39.0	48.0	42.6	11.0	17.2	13.2	3.9	8.9	5.9
5/23/2005	42.1	61.0	51.6	39.0	52.0	42.6	5.6	16.1	10.9	3.9	11.1	5.9
5/24/2005	51.1	59.0	53.2	44.6	51.8	48.6	10.6	15.0	11.8	7.0	11.0	9.2
5/25/2005	50.0	64.0	54.7	42.8	50.0	45.0	10.0	17.8	12.6	6.0	10.0	7.2
5/26/2005	48.0	77.0	62.2	33.8	48.9	44.2	8.9	25.0	16.8	1.0	9.4	6.8
5/27/2005	45.0	80.1	63.7	30.9	53.6	43.3	7.2	26.7	17.6	-0.6	12.0	6.3
5/28/2005	48.2	66.0	55.9	46.4	55.4	51.4	9.0	18.9	13.3	8.0	13.0	10.8
5/29/2005	46.0	66.9	54.5	44.1	52.0	48.7	7.8	19.4	12.5	6.7	11.1	9.3
5/30/2005	44.1	71.6	52.3	42.8	54.0	47.3	6.7	22.0	11.3	6.0	12.2	8.5
5/31/2005	50.0	73.9	57.2	46.0	53.1	50.5	10.0	23.3	14.0	7.8	11.7	10.3
6/1/2005	50.0	79.0	64.6	48.0	55.9	51.4	10.0	26.1	18.1	8.9	13.3	10.8
6/2/2005	55.0	77.0	67.3	46.4	55.9	52.3	12.8	25.0	19.6	8.0	13.3	11.3

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
6/3/2005	60.1	72.0	62.4	46.9	60.8	56.1	15.6	22.2	16.9	8.3	16.0	13.4
6/4/2005	60.8	72.0	63.3	59.0	64.4	60.8	16.0	22.2	17.4	15.0	18.0	16.0
6/5/2005	60.8	86.0	67.6	59.0	66.2	61.9	16.0	30.0	19.8	15.0	19.0	16.6
6/6/2005	62.6	84.0	68.9	62.6	70.0	65.1	17.0	28.9	20.5	17.0	21.1	18.4
6/7/2005	62.6	86.0	67.8	57.9	68.0	63.0	17.0	30.0	19.9	14.4	20.0	17.2
6/8/2005	60.1	90.0	75.0	59.0	66.9	63.1	15.6	32.2	23.9	15.0	19.4	17.3
6/9/2005	64.4	88.0	75.4	61.0	70.0	65.1	18.0	31.1	24.1	16.1	21.1	18.4
6/10/2005	73.0	84.0	77.2	63.0	71.1	68.7	22.8	28.9	25.1	17.2	21.7	20.4
6/11/2005	71.1	86.0	77.4	69.1	73.4	70.7	21.7	30.0	25.2	20.6	23.0	21.5
6/12/2005	71.6	88.0	76.5	64.0	73.0	70.3	22.0	31.1	24.7	17.8	22.8	21.3
6/13/2005	64.4	90.0	75.7	62.6	72.0	67.6	18.0	32.2	24.3	17.0	22.2	19.8
6/14/2005	71.1	91.9	81.7	64.4	72.0	67.8	21.7	33.3	27.6	18.0	22.2	19.9
6/15/2005	69.8	84.9	75.7	57.2	69.1	62.4	21.0	29.4	24.3	14.0	20.6	16.9
6/16/2005	64.4	73.9	67.8	50.0	63.0	60.4	18.0	23.3	19.9	10.0	17.2	15.8
6/17/2005	55.0	69.8	61.7	50.0	55.4	51.3	12.8	21.0	16.5	10.0	13.0	10.7
6/18/2005	55.0	66.9	62.2	51.8	57.2	54.1	12.8	19.4	16.8	11.0	14.0	12.3
6/19/2005	52.0	73.0	61.7	50.0	55.4	52.9	11.1	22.8	16.5	10.0	13.0	11.6
6/20/2005	53.6	78.1	65.1	50.0	57.9	54.1	12.0	25.6	18.4	10.0	14.4	12.3
6/21/2005	53.6	82.9	66.9	48.0	57.2	53.2	12.0	28.3	19.4	8.9	14.0	11.8
6/22/2005	60.8	79.0	69.6	44.6	60.1	57.4	16.0	26.1	20.9	7.0	15.6	14.1
6/23/2005	48.9	80.1	64.9	44.1	48.9	46.0	9.4	26.7	18.3	6.7	9.4	7.8
6/24/2005	52.0	89.1	69.6	48.9	60.1	53.2	11.1	31.7	20.9	9.4	15.6	11.8
6/25/2005	57.2	91.9	74.3	53.6	63.0	58.1	14.0	33.3	23.5	12.0	17.2	14.5
6/26/2005	66.2	93.9	78.6	61.0	69.8	65.1	19.0	34.4	25.9	16.1	21.0	18.4
6/27/2005	69.1	91.0	78.1	59.0	71.1	66.9	20.6	32.8	25.6	15.0	21.7	19.4
6/28/2005	71.1	93.0	80.2	64.0	69.1	66.9	21.7	33.9	26.8	17.8	20.6	19.4
6/29/2005	69.8	89.1	77.4	64.0	70.0	68.0	21.0	31.7	25.2	17.8	21.1	20.0
6/30/2005	68.0	91.0	75.6	57.0	66.9	65.1	20.0	32.8	24.2	13.9	19.4	18.4
7/1/2005	66.9	87.1	76.1	64.0	66.9	64.8	19.4	30.6	24.5	17.8	19.4	18.2
7/2/2005	64.9	82.0	73.0	46.0	66.0	54.3	18.3	27.8	22.8	7.8	18.9	12.4
7/3/2005	51.1	82.9	68.0	46.0	57.2	51.3	10.6	28.3	20.0	7.8	14.0	10.7
7/4/2005	66.9	88.0	76.8	54.0	63.0	57.6	19.4	31.1	24.9	12.2	17.2	14.2
7/5/2005	69.8	84.0	74.7	63.0	73.4	67.6	21.0	28.9	23.7	17.2	23.0	19.8
7/6/2005	66.9	81.0	71.4	62.6	68.0	66.4	19.4	27.2	21.9	17.0	20.0	19.1
7/7/2005	64.4	80.1	72.1	61.0	64.9	62.8	18.0	26.7	22.3	16.1	18.3	17.1
7/8/2005	66.0	73.9	68.9	61.0	66.2	64.2	18.9	23.3	20.5	16.1	19.0	17.9
7/9/2005	60.8	78.8	66.9	57.2	64.4	61.3	16.0	26.0	19.4	14.0	18.0	16.3
7/10/2005	60.1	90.0	72.7	48.9	64.9	58.5	15.6	32.2	22.6	9.4	18.3	14.7
7/11/2005	57.0	91.0	73.6	55.0	69.8	59.7	13.9	32.8	23.1	12.8	21.0	15.4
7/12/2005	66.9	91.0	78.6	63.0	71.6	67.3	19.4	32.8	25.9	17.2	22.0	19.6
7/13/2005	69.1	91.0	77.2	60.1	72.0	68.7	20.6	32.8	25.1	15.6	22.2	20.4
7/14/2005	68.0	86.0	75.0	66.0	70.0	67.6	20.0	30.0	23.9	18.9	21.1	19.8
7/15/2005	71.6	82.0	76.1	69.1	70.0	69.8	22.0	27.8	24.5	20.6	21.1	21.0
7/16/2005	73.0	82.4	76.1	69.8	75.2	71.4	22.8	28.0	24.5	21.0	24.0	21.9

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
7/17/2005	73.4	84.9	76.6	71.1	75.9	72.3	23.0	29.4	24.8	21.7	24.4	22.4
7/18/2005	73.0	90.0	77.5	70.0	73.9	72.3	22.8	32.2	25.3	21.1	23.3	22.4
7/19/2005	71.6	88.0	77.4	69.8	73.4	71.6	22.0	31.1	25.2	21.0	23.0	22.0
7/20/2005	66.0	88.0	76.3	59.0	72.0	65.1	18.9	31.1	24.6	15.0	22.2	18.4
7/21/2005	64.0	84.2	73.0	62.1	69.8	65.1	17.8	29.0	22.8	16.7	21.0	18.4
7/22/2005	68.0	87.1	73.8	64.9	71.1	68.4	20.0	30.6	23.2	18.3	21.7	20.2
7/23/2005	66.0	84.0	73.8	46.9	72.0	60.3	18.9	28.9	23.2	8.3	22.2	15.7
7/24/2005	55.9	84.0	69.1	51.1	62.6	56.8	13.3	28.9	20.6	10.6	17.0	13.8
7/25/2005	68.0	93.0	74.8	61.0	71.1	66.2	20.0	33.9	23.8	16.1	21.7	19.0
7/26/2005	64.0	93.0	77.5	62.1	73.9	67.6	17.8	33.9	25.3	16.7	23.3	19.8
7/27/2005	69.8	89.6	75.2	60.8	73.0	69.3	21.0	32.0	24.0	16.0	22.8	20.7
7/28/2005	59.0	79.0	69.6	54.0	60.1	56.7	15.0	26.1	20.9	12.2	15.6	13.7
7/29/2005	59.0	84.0	69.6	55.9	66.0	58.5	15.0	28.9	20.9	13.3	18.9	14.7
7/30/2005	59.0	84.9	71.8	55.0	64.4	59.4	15.0	29.4	22.1	12.8	18.0	15.2
7/31/2005	62.6	84.2	73.0	60.1	66.9	62.6	17.0	29.0	22.8	15.6	19.4	17.0
8/1/2005	66.0	89.1	72.5	60.1	69.1	64.9	18.9	31.7	22.5	15.6	20.6	18.3
8/2/2005	70.0	90.0	77.9	64.4	73.4	67.8	21.1	32.2	25.5	18.0	23.0	19.9
8/3/2005	68.0	91.9	78.4	64.0	73.9	68.5	20.0	33.3	25.8	17.8	23.3	20.3
8/4/2005	68.0	93.9	79.5	60.8	71.1	66.4	20.0	34.4	26.4	16.0	21.7	19.1
8/5/2005	71.1	86.0	76.3	57.2	71.1	68.2	21.7	30.0	24.6	14.0	21.7	20.1
8/6/2005	57.2	82.9	69.3	55.4	63.0	57.7	14.0	28.3	20.7	13.0	17.2	14.3
8/7/2005	62.6	86.0	72.5	60.1	68.0	63.0	17.0	30.0	22.5	15.6	20.0	17.2
8/8/2005	66.2	82.0	72.7	64.4	70.0	66.9	19.0	27.8	22.6	18.0	21.1	19.4
8/9/2005	68.0	82.9	72.9	63.0	69.8	66.9	20.0	28.3	22.7	17.2	21.0	19.4
8/10/2005	66.0	88.0	74.5	64.0	69.1	65.7	18.9	31.1	23.6	17.8	20.6	18.7
8/11/2005	69.8	88.0	77.2	64.9	71.6	67.5	21.0	31.1	25.1	18.3	22.0	19.7
8/12/2005	68.0	91.9	78.1	64.0	72.0	67.8	20.0	33.3	25.6	17.8	22.2	19.9
8/13/2005	69.1	96.1	79.0	66.0	73.4	69.3	20.6	35.6	26.1	18.9	23.0	20.7
8/14/2005	69.8	93.9	76.8	66.0	73.4	70.5	21.0	34.4	24.9	18.9	23.0	21.4
8/15/2005	68.0	81.0	73.6	60.1	72.0	62.6	20.0	27.2	23.1	15.6	22.2	17.0
8/16/2005	66.0	75.9	70.5	62.1	68.0	65.1	18.9	24.4	21.4	16.7	20.0	18.4
8/17/2005	64.4	84.0	71.1	55.0	66.2	62.6	18.0	28.9	21.7	12.8	19.0	17.0
8/18/2005	57.0	84.9	70.2	55.0	66.0	57.4	13.9	29.4	21.2	12.8	18.9	14.1
8/19/2005	66.0	79.0	70.5	59.0	68.0	64.0	18.9	26.1	21.4	15.0	20.0	17.8
8/20/2005	69.1	84.9	73.9	60.1	71.1	66.2	20.6	29.4	23.3	15.6	21.7	19.0
8/21/2005	73.0	89.1	80.1	51.1	72.0	65.3	22.8	31.7	26.7	10.6	22.2	18.5
8/22/2005	62.1	80.1	70.9	50.0	61.0	56.5	16.7	26.7	21.6	10.0	16.1	13.6
8/23/2005	54.0	73.9	65.5	52.0	55.9	54.1	12.2	23.3	18.6	11.1	13.3	12.3
8/24/2005	54.0	79.0	66.6	48.0	59.0	52.7	12.2	26.1	19.2	8.9	15.0	11.5
8/25/2005	52.0	80.1	65.1	48.9	59.0	52.9	11.1	26.7	18.4	9.4	15.0	11.6
8/26/2005	57.0	77.0	67.1	54.0	59.0	56.7	13.9	25.0	19.5	12.2	15.0	13.7
8/27/2005	57.9	79.0	67.1	52.0	63.0	57.9	14.4	26.1	19.5	11.1	17.2	14.4
8/28/2005	62.6	75.9	67.5	55.0	68.0	63.3	17.0	24.4	19.7	12.8	20.0	17.4
8/29/2005	64.4	78.1	68.7	64.0	71.6	66.0	18.0	25.6	20.4	17.8	22.0	18.9

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (°F)	Max T (°F)	Aver T (°F)	Min T_d (°F)	Max T_d (°F)	Aver T_d (°F)	Min T (°C)	Max T (°C)	Aver T (°C)	Min T_d (°C)	Max T_d (°C)	Aver T_d (°C)
8/30/2005	69.8	75.9	73.2	68.0	73.9	71.1	21.0	24.4	22.9	20.0	23.3	21.7
8/31/2005	68.0	79.0	74.8	64.4	73.4	70.7	20.0	26.1	23.8	18.0	23.0	21.5
9/1/2005	62.6	81.0	69.6	55.9	66.0	61.7	17.0	27.2	20.9	13.3	18.9	16.5
9/2/2005	59.0	84.9	67.3	50.0	63.0	58.1	15.0	29.4	19.6	10.0	17.2	14.5
9/3/2005	55.9	78.1	67.5	52.0	57.2	54.3	13.3	25.6	19.7	11.1	14.0	12.4
9/4/2005	55.0	79.0	64.9	48.9	59.0	55.2	12.8	26.1	18.3	9.4	15.0	12.9
9/5/2005	51.8	79.0	63.3	50.0	61.0	54.1	11.0	26.1	17.4	10.0	16.1	12.3
9/6/2005	53.6	80.1	61.9	51.1	62.1	55.0	12.0	26.7	16.6	10.6	16.7	12.8
9/7/2005	53.6	80.1	62.8	52.0	62.1	55.8	12.0	26.7	17.1	11.1	16.7	13.2
9/8/2005	53.6	79.0	62.1	51.8	61.0	55.4	12.0	26.1	16.7	11.0	16.1	13.0
9/9/2005	60.1	79.0	67.8	52.0	64.0	58.8	15.6	26.1	19.9	11.1	17.8	14.9
9/10/2005	53.1	80.1	64.0	44.1	61.0	53.6	11.7	26.7	17.8	6.7	16.1	12.0
9/11/2005	46.9	77.0	59.7	42.1	55.4	48.7	8.3	25.0	15.4	5.6	13.0	9.3
9/12/2005	50.0	84.9	62.8	48.0	64.4	53.4	10.0	29.4	17.1	8.9	18.0	11.9
9/13/2005	59.0	87.1	66.4	57.0	66.0	60.3	15.0	30.6	19.1	13.9	18.9	15.7
9/14/2005	55.4	84.9	64.2	54.0	68.0	59.2	13.0	29.4	17.9	12.2	20.0	15.1
9/15/2005	71.1	87.1	75.4	64.9	70.0	67.8	21.7	30.6	24.1	18.3	21.1	19.9
9/16/2005	68.0	82.9	72.7	64.0	71.6	66.9	20.0	28.3	22.6	17.8	22.0	19.4
9/17/2005	66.0	77.0	69.4	61.0	66.9	65.1	18.9	25.0	20.8	16.1	19.4	18.4
9/18/2005	59.0	79.0	65.1	55.9	63.0	59.7	15.0	26.1	18.4	13.3	17.2	15.4
9/19/2005	57.0	79.0	63.5	54.0	64.0	58.3	13.9	26.1	17.5	12.2	17.8	14.6
9/20/2005	64.0	79.0	69.4	59.0	64.0	61.5	17.8	26.1	20.8	15.0	17.8	16.4
9/21/2005	53.1	82.0	65.5	51.1	62.1	55.4	11.7	27.8	18.6	10.6	16.7	13.0
9/22/2005	51.8	82.9	62.2	50.0	64.4	55.4	11.0	28.3	16.8	10.0	18.0	13.0
9/23/2005	64.0	75.0	68.4	53.6	64.0	61.2	17.8	23.9	20.2	12.0	17.8	16.2
9/24/2005	48.0	73.0	58.8	44.1	54.0	46.9	8.9	22.8	14.9	6.7	12.2	8.3
9/25/2005	62.6	71.6	66.7	48.0	61.0	56.3	17.0	22.0	19.3	8.9	16.1	13.5
9/26/2005	68.0	71.6	70.2	61.0	68.0	64.6	20.0	22.0	21.2	16.1	20.0	18.1
9/27/2005	55.4	71.1	64.9	41.0	68.0	50.5	13.0	21.7	18.3	5.0	20.0	10.3
9/28/2005	44.6	72.0	52.0	42.8	50.0	45.5	7.0	22.2	11.1	6.0	10.0	7.5
9/29/2005	53.6	69.1	63.1	33.1	59.0	50.0	12.0	20.6	17.3	0.6	15.0	10.0
9/30/2005	39.2	64.9	49.6	35.1	46.4	40.3	4.0	18.3	9.8	1.7	8.0	4.6
10/1/2005	42.1	73.9	50.4	41.0	51.1	44.2	5.6	23.3	10.2	5.0	10.6	6.8
10/2/2005	48.0	78.1	55.9	46.4	62.1	51.1	8.9	25.6	13.3	8.0	16.7	10.6
10/3/2005	51.8	78.1	58.6	48.9	59.0	53.8	11.0	25.6	14.8	9.4	15.0	12.1
10/4/2005	50.0	70.0	56.5	48.2	60.8	53.2	10.0	21.1	13.6	9.0	16.0	11.8
10/5/2005	55.4	77.0	60.8	55.0	62.6	57.4	13.0	25.0	16.0	12.8	17.0	14.1
10/6/2005	53.6	73.4	61.3	53.6	64.0	57.7	12.0	23.0	16.3	12.0	17.8	14.3
10/7/2005	66.9	72.0	69.4	64.0	68.0	66.2	19.4	22.2	20.8	17.8	20.0	19.0
10/8/2005	50.0	71.1	60.1	46.0	66.9	56.8	10.0	21.7	15.6	7.8	19.4	13.8
10/9/2005	48.9	57.9	52.2	44.6	48.2	46.0	9.4	14.4	11.2	7.0	9.0	7.8
10/10/2005	51.1	60.8	54.9	46.9	55.9	50.4	10.6	16.0	12.7	8.3	13.3	10.2
10/11/2005	57.0	63.0	59.4	52.0	55.9	54.5	13.9	17.2	15.2	11.1	13.3	12.5
10/12/2005	55.4	61.0	58.5	50.0	57.2	55.0	13.0	16.1	14.7	10.0	14.0	12.8

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

Date	Min T (^oF)	Max T (^oF)	Aver T (^oF)	Min T_d (^oF)	Max T_d (^oF)	Aver T_d (^oF)	Min T (^oC)	Max T (^oC)	Aver T (^oC)	Min T_d (^oC)	Max T_d (^oC)	Aver T_d (^oC)
10/13/2005	51.8	57.9	55.0	48.9	55.9	53.1	11.0	14.4	12.8	9.4	13.3	11.7
10/14/2005	55.4	64.9	57.6	55.0	59.0	55.9	13.0	18.3	14.2	12.8	15.0	13.3
10/15/2005	51.1	69.8	57.6	35.1	57.2	51.4	10.6	21.0	14.2	1.7	14.0	10.8
10/16/2005	50.0	60.1	55.0	36.0	44.1	41.0	10.0	15.6	12.8	2.2	6.7	5.0
10/17/2005	48.9	63.0	54.5	37.9	42.8	39.9	9.4	17.2	12.5	3.3	6.0	4.4
10/18/2005	44.6	70.0	52.2	35.1	50.0	44.4	7.0	21.1	11.2	1.7	10.0	6.9
10/19/2005	39.0	75.0	50.2	37.0	48.9	41.4	3.9	23.9	10.1	2.8	9.4	5.2
10/20/2005	39.0	63.0	49.8	32.0	46.9	36.7	3.9	17.2	9.9	0.0	8.3	2.6
10/21/2005	44.1	53.1	48.4	37.9	43.0	40.8	6.7	11.7	9.1	3.3	6.1	4.9
10/22/2005	44.6	52.0	46.9	39.0	46.4	44.4	7.0	11.1	8.3	3.9	8.0	6.9
10/23/2005	46.0	52.0	47.5	35.1	45.0	40.8	7.8	11.1	8.6	1.7	7.2	4.9
10/24/2005	37.0	46.0	41.7	35.6	42.8	39.0	2.8	7.8	5.4	2.0	6.0	3.9
10/25/2005	39.0	44.6	41.5	35.1	42.1	38.1	3.9	7.0	5.3	1.7	5.6	3.4
10/26/2005	39.2	50.0	42.4	33.1	37.9	34.7	4.0	10.0	5.8	0.6	3.3	1.5
10/27/2005	39.2	46.4	43.0	26.1	37.4	33.3	4.0	8.0	6.1	-3.3	3.0	0.7
10/28/2005	30.0	48.9	37.4	24.1	35.1	30.7	-1.1	9.4	3.0	-4.4	1.7	-0.7
10/29/2005	37.0	53.1	42.1	26.1	35.1	32.5	2.8	11.7	5.6	-3.3	1.7	0.3
10/30/2005	39.0	63.0	46.8	33.1	39.0	35.2	3.9	17.2	8.2	0.6	3.9	1.8
10/31/2005	32.0	64.9	41.5	30.2	41.0	35.4	0.0	18.3	5.3	-1.0	5.0	1.9
11/1/2005	33.8	66.0	42.8	33.1	48.2	37.9	1.0	18.9	6.0	0.6	9.0	3.3
11/2/2005	41.0	57.2	48.4	30.0	48.9	40.5	5.0	14.0	9.1	-1.1	9.4	4.7
11/3/2005	30.2	72.0	40.3	30.0	42.8	33.4	-1.0	22.2	4.6	-1.1	6.0	0.8
11/4/2005	33.8	69.1	43.7	33.1	46.9	38.1	1.0	20.6	6.5	0.6	8.3	3.4
11/5/2005	44.6	70.0	53.1	42.8	55.0	46.8	7.0	21.1	11.7	6.0	12.8	8.2
11/6/2005	46.9	69.8	56.7	46.0	53.6	50.5	8.3	21.0	13.7	7.8	12.0	10.3
11/7/2005	46.0	61.0	54.1	30.0	42.1	35.6	7.8	16.1	12.3	-1.1	5.6	2.0
11/8/2005	35.6	61.0	45.3	33.1	44.6	37.4	2.0	16.1	7.4	0.6	7.0	3.0
11/9/2005	39.0	54.0	47.5	35.6	50.0	42.4	3.9	12.2	8.6	2.0	10.0	5.8
11/10/2005	42.1	53.6	49.5	24.8	53.6	41.0	5.6	12.0	9.7	-4.0	12.0	5.0
11/11/2005	35.6	48.0	42.1	25.0	30.2	27.7	2.0	8.9	5.6	-3.9	-1.0	-2.4
11/12/2005	26.6	55.9	36.7	24.8	33.8	28.6	-3.0	13.3	2.6	-4.0	1.0	-1.9
11/13/2005	33.1	60.8	45.9	28.0	35.6	32.2	0.6	16.0	7.7	-2.2	2.0	0.1
11/14/2005	42.1	60.1	52.7	25.0	39.9	33.6	5.6	15.6	11.5	-3.9	4.4	0.9
11/15/2005	39.9	53.6	45.9	30.9	51.8	42.3	4.4	12.0	7.7	-0.6	11.0	5.7
11/16/2005	44.6	66.9	58.3	37.4	60.8	53.1	7.0	19.4	14.6	3.0	16.0	11.7
11/17/2005	32.0	45.0	37.2	14.0	37.9	20.1	0.0	7.2	2.9	-10.0	3.3	-6.6
11/18/2005	24.8	35.1	31.1	16.0	21.2	18.0	-4.0	1.7	-0.5	-8.9	-6.0	-7.8
11/19/2005	30.0	46.9	35.8	19.0	24.1	21.2	-1.1	8.3	2.1	-7.2	-4.4	-6.0
11/20/2005	24.1	52.0	35.1	21.2	30.2	25.2	-4.4	11.1	1.7	-6.0	-1.0	-3.8
11/21/2005	26.6	43.0	34.3	24.8	33.1	28.6	-3.0	6.1	1.3	-4.0	0.6	-1.9
11/22/2005	33.8	46.0	39.9	15.8	37.0	30.7	1.0	7.8	4.4	-9.0	2.8	-0.7
11/23/2005	24.1	34.0	28.6	8.1	17.1	12.6	-4.4	1.1	-1.9	-13.3	-8.3	-10.8
11/24/2005	21.2	41.0	31.3	1.0	33.8	25.2	-6.0	5.0	-0.4	-17.2	1.0	-3.8
11/25/2005	15.8	30.0	21.2	1.0	12.0	7.0	-9.0	-1.1	-6.0	-17.2	-11.1	-13.9

Table 2.3-84 {Williamsport, PA, Daily Average and Extreme Temperature and Dew Point Termperature Values (2000-2005)}

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Date	Min T (^{o}F)	Max T (^{o}F)	Aver T (^{o}F)	Min T_d (^{o}F)	Max T_d (^{o}F)	Aver T_d (^{o}F)	Min T (^{o}C)	Max T (^{o}C)	Aver T (^{o}C)	Min T_d (^{o}C)	Max T_d (^{o}C)	Aver T_d (^{o}C)
11/26/2005	19.0	35.6	25.7	9.0	18.0	12.7	-7.2	2.0	-3.5	-12.8	-7.8	-10.7
11/27/2005	32.0	46.9	38.5	16.0	28.4	24.1	0.0	8.3	3.6	-8.9	-2.0	-4.4
11/28/2005	39.0	60.8	45.5	28.0	53.6	42.1	3.9	16.0	7.5	-2.2	12.0	5.6
11/29/2005	51.8	64.9	61.0	50.0	57.9	55.0	11.0	18.3	16.1	10.0	14.4	12.8
11/30/2005	39.0	52.0	45.1	26.1	51.1	41.2	3.9	11.1	7.3	-3.3	10.6	5.1
12/1/2005	30.0	39.0	35.4	23.0	28.9	25.3	-1.1	3.9	1.9	-5.0	-1.7	-3.7
12/2/2005	30.0	36.0	33.3	19.4	30.9	25.7	-1.1	2.2	0.7	-7.0	-0.6	-3.5
12/3/2005	24.1	30.9	27.1	12.9	23.0	17.8	-4.4	-0.6	-2.7	-10.6	-5.0	-7.9
12/4/2005	24.1	33.8	26.6	14.0	26.1	21.4	-4.4	1.0	-3.0	-10.0	-3.3	-5.9
12/5/2005	24.1	34.0	28.8	15.1	23.0	18.5	-4.4	1.1	-1.8	-9.4	-5.0	-7.5
12/6/2005	19.9	32.0	25.5	10.4	19.9	16.7	-6.7	0.0	-3.6	-12.0	-6.7	-8.5
12/7/2005	14.0	28.0	22.6	8.6	14.0	11.7	-10.0	-2.2	-5.2	-13.0	-10.0	-11.3
12/8/2005	10.9	28.0	20.7	7.0	14.0	10.9	-11.7	-2.2	-6.3	-13.9	-10.0	-11.7
12/9/2005	21.2	32.0	25.7	12.0	23.0	19.4	-6.0	0.0	-3.5	-11.1	-5.0	-7.0
12/10/2005	24.1	30.0	26.8	15.8	19.4	17.4	-4.4	-1.1	-2.9	-9.0	-7.0	-8.1
12/11/2005	12.9	30.0	20.1	10.0	21.9	14.7	-10.6	-1.1	-6.6	-12.2	-5.6	-9.6
12/12/2005	24.1	32.0	28.4	6.8	24.1	17.6	-4.4	0.0	-2.0	-14.0	-4.4	-8.0
12/13/2005	5.0	24.1	14.7	1.4	7.0	4.1	-15.0	-4.4	-9.6	-17.0	-13.9	-15.5
12/14/2005	-0.4	18.0	8.1	-5.8	5.0	0.9	-18.0	-7.8	-13.3	-21.0	-15.0	-17.3
12/15/2005	9.0	26.1	17.8	1.0	23.0	10.6	-12.8	-3.3	-7.9	-17.2	-5.0	-11.9
12/16/2005	25.0	37.4	32.5	23.0	32.0	29.5	-3.9	3.0	0.3	-5.0	0.0	-1.4
12/17/2005	19.9	33.1	28.0	17.1	28.4	21.0	-6.7	0.6	-2.2	-8.3	-2.0	-6.1
12/18/2005	15.8	30.2	21.0	12.2	19.9	16.3	-9.0	-1.0	-6.1	-11.0	-6.7	-8.7
12/19/2005	16.0	27.0	21.7	8.6	19.9	14.4	-8.9	-2.8	-5.7	-13.0	-6.7	-9.8
12/20/2005	14.0	23.0	18.3	3.0	10.0	5.5	-10.0	-5.0	-7.6	-16.1	-12.2	-14.7
12/21/2005	14.0	28.4	20.8	8.1	19.4	12.2	-10.0	-2.0	-6.2	-13.3	-7.0	-11.0
12/22/2005	26.1	34.0	28.6	15.8	21.9	18.5	-3.3	1.1	-1.9	-9.0	-5.6	-7.5
12/23/2005	26.1	41.0	31.3	21.0	26.1	23.5	-3.3	5.0	-0.4	-6.1	-3.3	-4.7
12/24/2005	21.9	46.0	31.1	21.0	28.0	24.3	-5.6	7.8	-0.5	-6.1	-2.2	-4.3
12/25/2005	19.4	37.4	29.1	17.6	35.6	27.1	-7.0	3.0	-1.6	-8.0	2.0	-2.7
12/26/2005	33.1	39.0	34.9	28.0	34.0	32.9	0.6	3.9	1.6	-2.2	1.1	0.5
12/27/2005	35.6	39.2	36.9	25.0	28.9	27.1	2.0	4.0	2.7	-3.9	-1.7	-2.7
12/28/2005	28.0	41.0	34.3	25.0	30.2	27.1	-2.2	5.0	1.3	-3.9	-1.0	-2.7
12/29/2005	35.1	42.8	37.6	30.9	39.2	36.0	1.7	6.0	3.1	-0.6	4.0	2.2
12/30/2005	34.0	43.0	39.0	24.1	39.0	30.4	1.1	6.1	3.9	-4.4	3.9	-0.9
12/31/2005	28.0	33.8	39.0	24.1	30.9	30.4	-2.2	1.0	3.9	-4.4	-0.6	-0.9

Table 2.3-85 {SSES Monthly Mean Temperatures (2001-2006)}

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
°F	27.9	31.0	37.7	50.4	59.3	67.5	71.6	71.5	63.3	51.2	44.0	33.1	50.7
°C	-2.3	-0.6	3.2	10.2	15.2	19.7	22.0	21.9	17.4	10.7	6.7	0.6	10.4

Table 2.3-86 {SSES Monthly Mean Extreme Maximum Temperatures (2001-2006)}

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
°F	35.7	35.5	40.3	51.6	66.4	71.1	73.6	73.2	67.0	54.2	46.9	38.7
°C	2.1	1.9	4.6	10.9	19.1	21.7	23.1	22.9	19.4	12.3	8.3	3.7

Table 2.3-87 {SSES Monthly Mean Extreme Minimum Temperatures (2001-2006)}

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
°F	21.0	26.3	33.9	48.4	55.9	64.9	68.5	68.7	60.4	49.1	40.9	28.2
°C	-6.1	-3.2	1.1	9.1	13.3	18.3	20.3	20.4	15.8	9.5	4.9	-2.1

Table 2.3-88 {SSES Monthly Mean Daily Maximum Temperatures (2001-2006)}

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
°F	34.6	38.8	46.2	60.8	69.2	77.3	81.6	81.6	73.2	60.5	52.8	40.0
°C	1.4	3.8	7.9	16.0	20.7	25.2	27.6	27.6	22.9	15.8	11.6	4.4

Table 2.3-89 {SSES Monthly Mean Daily Minimum Temperatures (2001-2006)}

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
°F	21.2	23.4	29.3	40.1	49.3	58.3	62.3	62.5	54.3	42.8	35.8	26.4
°C	-6.0	-4.8	-1.5	4.5	9.6	14.6	16.8	16.9	12.4	6.0	2.1	-3.1

Table 2.3-90 {SSES Maximum Hourly Temperatures (2001-2006)}

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
°F	65.1	63.6	74.7	90.3	92.6	92.4	93.4	96.8	92.6	81.3	73.8	69.8
°C	18.4	17.6	23.7	32.4	33.7	33.6	34.1	36.0	33.7	27.4	23.2	21.0

Table 2.3-91 {SSES Minimum Hourly Temperatures (2001-2006)}

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
°F	-7.0	4.8	1.1	19.8	25.4	40.7	46.4	46.3	39.6	25.6	16.6	-3.1
°C	-21.7	-15.1	-17.2	-6.8	-3.7	4.8	8.0	7.9	4.2	-3.6	-8.6	-19.5

Table 2.3-92 {Number of SSES Hourly Temperature Values Greater Than or Less Than Indicated Value and Percent Frequency of Occurrence (2001-2006)}

Value	Number of Hours of Occurrence	Percent Frequency of Occurrence
≥ 95.0°F	13	0.025
≥ 90.0°F	192	0.368
≤ 32.0°F	9231	17.672
≤ 00.0°F	51	0.098

Table 2.3-93 {SSES Monthly Mean Relative Humidity (2001-2006)}

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
%	58.2	52.0	52.6	49.6	56.7	63.2	61.3	61.7	62.8	60.3	60.3	56.7	58.0

Table 2.3-94 {Monthly Mean Temperatures (1971-2000) for Sites Around Bell Bend Nuclear Power Plant}

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wilkes-Barre /Scranton, PA	°F	26.3	28.9	37.9	48.7	59.6	67.5	72.1	70.3	62.5	51.5	41.5	31.4	49.9
	°C	-3.2	-1.7	3.3	9.3	15.3	19.7	22.3	21.3	16.9	10.8	5.3	-0.3	9.9
Allentown, PA	°F	27.1	29.9	38.8	49.0	59.6	68.5	73.3	71.2	63.4	52.0	42.0	32.0	50.6
	°C	-2.7	-1.2	3.8	9.4	15.3	20.3	22.9	21.8	17.4	11.1	5.6	0.0	10.3
Williamsport, PA	°F	25.5	28.5	38.0	49.0	59.5	67.8	72.4	70.9	63.1	51.3	40.8	30.7	49.8
	°C	-3.6	-1.9	3.3	9.4	15.3	19.9	22.4	21.6	17.3	10.7	4.9	-0.7	9.9

Table 2.3-95 {Monthly Mean Daily Maximum Temperatures (1971-2000) for Sites Around Bell Bend Nuclear Power Plant}

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wilkes-Barre /Scranton, PA	°F	34.1	37.3	47.3	59.2	70.8	78.2	82.6	80.5	72.4	61.2	49.3	38.6	59.3
	°C	1.2	2.9	8.5	15.1	21.6	25.7	28.1	26.9	22.4	16.2	9.6	3.7	15.2
Allentown, PA	°F	35.0	38.7	48.7	60.1	70.9	79.3	83.9	81.7	74.0	62.9	51.2	40.0	60.5
	°C	1.7	3.7	9.3	15.6	21.6	26.3	28.8	27.6	23.3	17.2	10.7	4.4	15.8
Williamsport, PA	°F	33.2	37.1	47.8	60.2	71.3	78.9	83.2	81.4	73.3	61.8	49.0	37.8	59.6
	°C	0.7	2.8	8.8	15.7	21.8	26.1	28.4	27.4	22.9	16.6	9.4	3.2	15.3

Table 2.3-96 {Monthly Mean Daily Minimum Temperatures (1971-2000) for Sites Around Bell Bend Nuclear Power Plant}

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wilkes-Barre /Scranton, PA	°F	18.5	20.4	28.4	38.1	48.4	56.7	61.5	60.1	52.6	41.7	33.7	24.2	40.4
	°C	-7.5	-6.4	-2.0	3.4	9.1	13.7	16.4	15.6	11.4	5.4	0.9	-4.3	4.7
Allentown, PA	°F	19.1	21.0	28.9	37.8	48.3	57.7	62.6	60.7	52.7	41.1	32.7	24.0	40.6
	°C	-7.2	-6.1	-1.7	3.2	9.1	14.3	17.0	15.9	11.5	5.1	0.4	-4.4	4.8
Williamsport, PA	°F	17.9	19.9	28.2	37.8	47.8	56.8	61.7	60.4	52.8	40.9	32.7	23.7	40.1
	°C	-7.8	-6.7	-2.1	3.2	8.8	13.8	16.5	15.8	11.6	4.9	0.4	-4.6	4.5

Table 2.3-97 {Monthly Mean Wet Bulb Temperatures (1978-2000) for Sites Around Bell Bend Nuclear Power Plant}

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wilkes-Barre/Scranton, PA	°F	24.2	25.8	32.3	42.2	52.2	61.0	65.0	63.8	57.3	46.5	37.7	28.3	44.7
	°C	-4.3	-3.4	0.2	5.7	11.2	16.1	18.3	17.7	14.1	8.1	3.2	-2.1	7.1
Allentown, PA	°F	26.1	27.7	34.3	44.0	53.8	62.9	67.1	66.0	59.3	48.3	39.2	29.9	46.6
	°C	-3.3	-2.4	1.3	6.7	12.1	17.2	19.5	18.9	15.2	9.1	4.0	-1.2	8.1
Williamsport, PA	°F	24.6	26.9	33.1	43.3	53.1	62.0	66.2	64.9	58.2	47.1	37.9	28.6	45.5
	°C	-4.1	-2.8	0.6	6.3	11.7	16.7	19.0	18.3	14.6	8.4	3.3	-1.9	7.5

Table 2.3-98 {Monthly Mean Dew Point Temperatures (1978-2000) for Sites Around Bell Bend Nuclear Power Plant}

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wilkes-Barre/Scranton, PA	°F	18.8	19.2	25.2	34.9	46.5	56.8	61.2	60.3	53.8	41.9	32.4	23.0	39.5
	°C	-7.3	-7.1	-3.8	1.6	8.1	13.8	16.2	15.7	12.1	5.5	0.2	-5.0	4.2
Allentown, PA	°F	20.0	20.7	26.7	36.7	48.3	58.5	63.2	62.5	55.7	43.8	33.7	24.2	41.2
	°C	-6.7	-6.3	-2.9	2.6	9.1	14.7	17.3	16.9	13.2	6.6	0.9	-4.3	5.1
Williamsport, PA	°F	18.9	19.7	26.2	36.0	47.7	57.9	62.6	61.8	55.1	43.0	33.0	23.3	40.4
	°C	-7.3	-6.8	-3.2	2.2	8.7	14.4	17.0	16.6	12.8	6.1	0.6	-4.8	4.7

Table 2.3-99 {Mean Number of Days with Maximum Hourly Temperature Value Greater Than or Equal to 90°F (1971-2000) for Sites Around Bell Bend Nuclear Power Plant}

SITE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wilkes-Barre/Scranton, PA	0.0	0.0	0.0	0.1	0.3	1.0	3.6	2.0	0.4	0.0	0.0	0.0	7.4
Allentown, PA	0.0	0.0	0.0	0.2	0.7	2.6	6.5	3.6	0.8	0.0	0.0	0.0	14.4
Williamsport, PA	0.0	0.0	0.0	0.2	1.1	2.2	5.3	3.1	0.5	0.0	0.0	0.0	12.4

Table 2.3-100 {Mean Number of Days with Minimum Hourly Temperature Value Less Than or Equal to 32°F (1971-2000) for Sites Around BBNPP}

SITE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wilkes-Barre/Scranton, PA	27.7	24.0	20.5	8.4	0.5	0.0	0.0	0.0	0.1	4.4	13.7	24.6	123.9
Allentown, PA	27.5	23.3	18.4	5.8	0.2	0.0	0.0	0.0	0.1	3.5	13.6	24.5	116.9
Williamsport, PA	28.1	23.9	20.4	7.6	0.6	0.0	0.0	0.0	*	4.6	14.8	24.5	124.5

* Between 0.00 and 0.05

Table 2.3-101 {Mean Number of Days with Minimum Hourly Temperature Value Less Than or Equal to 0°F (1971-2000) for Sites Around BBNPP}

SITE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wilkes-Barre/Scranton, PA	1.8	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.5
Allentown, PA	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.6
Williamsport, PA	2.0	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.0

Table 2.3-102 {Monthly Mean Relative Humidity (1971-2000) for Sites Around BBNPP}

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wilkes-Barre/Scranton, PA	%	71	67	63	61	65	70	71	73	75	72	71	72	69
Allentown, PA	%	70	66	62	61	66	68	70	72	74	72	70	71	69
Williamsport, PA	%	70	67	63	61	67	71	73	76	78	75	72	72	70

Table 2.3-103 {Daily Variation of Monthly Mean Relative Humidity (%) (1971-2000) for Sites Around BBNPP}

SITE	Time (LST)*	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wilkes-Barre/Scranton, PA	1	73	70	68	66	74	81	82	84	84	80	75	75	76
	7	76	75	74	72	77	83	84	87	88	84	79	77	80
	13	66	61	56	52	54	57	57	59	62	59	64	66	59
	19	68	63	58	54	57	62	63	66	71	67	68	69	64
Allentown, PA	1	74	72	69	69	76	81	82	84	86	83	77	76	77
	7	77	76	74	73	77	80	82	86	88	86	80	78	80
	13	62	57	52	49	53	55	54	56	58	56	58	62	56
	19	68	63	57	54	57	60	61	65	69	67	66	68	63
Williamsport, PA	1	74	73	71	71	81	87	88	90	90	85	79	76	80
	7	77	76	76	74	81	85	87	90	92	88	81	78	82
	13	62	57	52	48	52	56	56	58	61	58	61	63	57
	19	67	63	57	52	57	62	64	69	75	72	69	69	65

* LST = Local Standard Time

Table 2.3-104 Annual Heating and Humidification Design Conditions for Wilkes-Barre/Scranton, PA

Annual Heating and Humidification Design Conditions													
Coldest month	Heating DB		Humidification DP/MCDB and HR						Coldest month WS/MCDB				MCWS/PCWDto 99.6% DB	
			99.6%			99%			0.4%		1%			
	99.6%	99%	DP	HR	MCDB	DP	HR	MCDB	WS	MCDB	WS	MCDB	MCWS	PCWD
2	3a	3b	4a	4b	4c	4d	4e	4f	5a	5b	5c	5d	6a	6b
1	2.9	7.6	-8.5	3.6	5.0	-3.7	4.7	9.6	24.9	32.5	22.6	27.9	8.3	240

DB = dry bulb temperature (°F), DP = dew point temperature (°F), MCDB = mean coincident dry bulb temperature (°F), WS = wind speed (mph), HR = humidity ratio (grains of moisture per lb of dry air), PCWD = prevailing coincident wind direction (deg)

Table 2.3-105 Annual Cooling, Dehumidification, and Enthalpy Design Conditions for Wilkes-Barre/Scranton, PA

Annual Cooling, Dehumidification, and Enthalpy Design Conditions															
Hottest month	Hottest month DB range	Cooling DB/MCWB						Evaporation WB/MCWB						MCWS/PCWD to 0.4 DB	
		0.4%		1%		2%		0.4%		1%		2%			
		DB	MCWB	DB	MCWB	DB	MCWD	WB	MCWB	WB	MCWB	WB	MCWB	MCWS	PCWD
7	8	9a	9b	9c	9d	9e	9f	10a	10b	10c	10d	10e	10f	11a	11b
7	18.8	88.1	71.6	85.2	70.3	82.7	68.8	74.6	83.5	73.0	81.3	71.5	79.0	10.5	230
Dehumidification DP/MCDB and HR									Enthalpy/MCDB						
0.4%			1%			2%			0.4%		1%		2%		
DP	HR	MCDB	DP	HR	MCDB	DP	HR	MCDB	Enth	MCDB	Enth	MCDB	Enth	MCDB	
12a	12b	12c	12d	12e	12f	12g	12h	12i	13a	13b	13c	13d	13e	13f	
71.8	121.9	79.1	70.3	115.5	77.3	68.9	109.9	76.0	31.0	83.6	29.5	81.3	28.1	79.2	

WB = wet bulb temperature (°F), MCWB = mean coincident wet bulb temperature (°F), Enth = Enthalpy (Btu/lb)

Table 2.3-106 Extreme Annual Design Conditions for Wilkes-Barre/Scranton, PA

Extreme Annual Design Conditions															
Extreme Annual WS			Extreme Max WB	Extreme Annual DB				n-Year Return Period Values of Extreme DB							
				Mean		Standard deviation		n=5 years		n=10 years		n=20 years		n=50 years	
1%	2.5%	5%		Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
14a	14b	14c	15	16a	16b	16c	16d	17a	17b	17c	17d	17e	17f	17g	17h
20.3	18.3	16.7	84.9	92.6	-3.9	2.8	6.3	94.6	-8.4	96.3	-12.1	97.8	-15.7	99.9	-20.2

WS = wind speed (mph), WB = wet bulb temperature (°F), DB = dry bulb temperature (°F)

Table 2.3-107 {Monthly Design Dry Bulb and Mean Coincident Wet Bulb Temperature Values for Wilkes-Barre/Scranton, PA (1972-2001)}

%	Jan		Feb		Mar		Apr		May		Jun	
	DB	**MCWB**	**DB**	**MCWB**	**DB**	**MCWB**	**DB**	**MCWB**	**DB**	**MCWB**	**DB**	**MCWB**
0.4%	60.4°F	55.8°F	59.2°F	50.7°F	74.3°F	58.8°F	82.4°F	62.5°F	86.4°F	66.6°F	89.2°F	72.1°F
	15.8°C	13.2°C	15.1°C	10.4°C	23.5°C	14.9°C	28.0°C	16.9°C	30.2°C	19.2°C	31.8°C	22.3°C
1%	55.9°F	51.1°F	56.1°F	49.5°F	69.1°F	56.2°F	78.4°F	60.6°F	84.4°F	65.9°F	87.3°F	71.2°F
	13.3°C	10.6°C	13.4°C	9.7°C	20.6°C	13.4°C	25.8°C	15.9°C	29.1°C	18.8°C	30.7°C	21.8°C
2%	51.5°F	47.7°F	53.0°F	47.6°F	65.3°F	53.7°F	74.6°F	58.7°F	82.4°F	65.3°F	85.4°F	70.2°F
	10.8°C	8.7°C	11.7°C	8.7°C	18.5°C	12.1°C	23.7°C	14.8°C	28.0°C	18.5°C	29.7°C	21.2°C
%	**Jul**		**Aug**		**Sep**		**Oct**		**Nov**		**Dec**	
	DB	**MCWB**	**DB**	**MCWB**	**DB**	**MCWB**	**DB**	**MCWB**	**DB**	**MCWB**	**DB**	**MCWB**
0.4%	93.0°F	73.5°F	90.8°F	73.5°F	85.9°F	70.5°F	77.0°F	64.1°F	70.0°F	60.0°F	61.6°F	55.3°F
	33.9°C	23.1°C	32.7°C	23.1°C	29.9°C	21.4°C	25.0°C	17.8°C	21.1°C	15.6°C	16.4°C	12.9°C
1%	90.5°F	73.1°F	88.7°F	72.5°F	83.7°F	69.0°F	74.7°F	63.2°F	66.5°F	59.0°F	58.0°F	52.6°F
	32.5°C	22.8°C	31.5°C	22.5°C	28.7°C	20.6°C	23.7°C	17.3°C	19.2°C	15.0°C	14.4°C	11.4°C
2%	88.6°F	72.6°F	86.6°F	71.5°F	81.6°F	68.6°F	72.2°F	61.9°F	64.3°F	57.7°F	54.9°F	50.7°F
	31.4°C	22.6°C	30.3°C	21.9°C	27.6°C	20.3°C	22.3°C	16.6°C	17.9°C	14.3°C	12.7°C	10.4°C

DB = Dry Bulb, MCWB = Mean Coincident Wet Bulb

Table 2.3-108 {Monthly Design Wet Bulb and Mean Coincident Dry Bulb Temperature Values for Wilkes-Barre/Scranton, PA (1972-2001)}

%	Jan		Feb		Mar		Apr		May		Jun	
	WB	**MCDB**	**WB**	**MCDB**	**WB**	**MCDB**	**WB**	**MCDB**	**WB**	**MCDB**	**WB**	**MCDB**
0.4%	56.9°F	59.9°F	53.8°F	57.5°F	60.9°F	71.9°F	64.3°F	77.2°F	71.8°F	81.1°F	75.4°F	84.8°F
	13.8°C	15.5°C	12.1°C	14.2°C	16.1°C	22.2°C	17.9°C	25.1°C	22.1°C	27.3°C	24.1°C	29.3°C
1%	52.2°F	55.0°F	51.4°F	54.2°F	58.3°F	67.1°F	62.8°F	75.1°F	70.1°F	79.4°F	73.8°F	82.8°F
	11.2°C	12.8°C	10.8°C	12.3°C	14.6°C	19.5°C	17.1°C	23.9°C	21.2°C	26.3°C	23.2°C	28.2°C
2%	48.1°F	50.6°F	48.4°F	52.1°F	55.7°F	62.8°F	61.0°F	71.8°F	68.3°F	77.6°F	72.6°F	81.1°F
	8.9°C	10.3°C	9.1°C	11.2°C	13.2°C	17.1°C	16.1°C	22.1°C	20.2°C	25.3°C	22.6°C	27.3°C
%	**Jul**		**Aug**		**Sep**		**Oct**		**Nov**		**Dec**	
	WB	**MCDB**	**WB**	**MCDB**	**WB**	**MCDB**	**WB**	**MCDB**	**WB**	**MCDB**	**WB**	**MCDB**
0.4%	77.4°F	87.6°F	76.0°F	85.8°F	73.5°F	81.2°F	67.5°F	72.9°F	62.6°F	67.0°F	57.1°F	60.7°F
	25.2°C	30.9°C	24.4°C	29.9°C	23.1°C	27.3°C	19.7°C	22.7°C	17.0°C	19.4°C	13.9°C	15.9°C
1%	76.2°F	85.8°F	74.9°F	84.2°F	72.3°F	80.0°F	65.8°F	70.6°F	61.0°F	65.1°F	54.1°F	57.1°F
	24.6°C	29.9°C	23.8°C	29.0°C	22.4°C	26.7°C	18.8°C	21.4°C	16.1°C	18.4°C	12.3°C	13.9°C
2%	75.1°F	84.1°F	74.0°F	83.0°F	71.1°F	78.4°F	64.3°F	69.3°F	59.0°F	63.3°F	51.1°F	53.7°F
	23.9°C	28.9°C	23.3°C	28.3°C	21.7°C	25.8°C	17.9°C	20.7°C	15.0°C	17.4°C	10.6°C	12.1°C

WB = Wet Bulb, MCDB = Mean Coincident Dry Bulb

Table 2.3-109 {Monthly Design Dry Bulb and Mean Coincident Wet Bulb Temperature Values for Allentown, PA (1972-2001)}

%	Jan		Feb		Mar		Apr		May		Jun	
	DB	MCWB	DB	MCWB	DB	MCWB	DB	MCWB	DB	MCWB	DB	MCWB
0.4%	61.0°F	57.9°F	62.9°F	52.0°F	76.7°F	61.7°F	84.7°F	64.4°F	88.6°F	69.2°F	91.7°F	73.8°F
	16.1°C	14.4°C	17.2°C	11.1°C	24.8°C	16.5°C	29.3°C	18.0°C	31.4°C	20.7°C	33.2°C	23.2°C
1%	56.8°F	52.8°F	58.3°F	49.9°F	71.4°F	56.6°F	80.1°F	62.9°F	86.6°F	68.3°F	90.0°F	72.8°F
	13.8°C	11.6°C	14.6°C	9.9°C	21.9°C	13.7°C	26.7°C	17.2°C	30.3°C	20.2°C	32.2°C	22.7°C
2%	52.0°F	48.0°F	54.6°F	47.8°F	67.1°F	54.8°F	75.6°F	60.1°F	84.4°F	67.1°F	88.1°F	71.6°F
	11.1°C	8.9°C	12.6°C	8.8°C	19.5°C	12.7°C	24.2°C	15.6°C	29.1°C	19.5°C	31.2°C	22.0°C
%	Jul		Aug		Sep		Oct		Nov		Dec	
	DB	MCWB	DB	MCWB	DB	MCWB	DB	MCWB	DB	MCWB	DB	MCWB
0.4%	95.3°F	75.4°F	93.0°F	74.4°F	89.5°F	72.5°F	79.3°F	66.1°F	71.9°F	61.9°F	63.5°F	57.4°F
	35.2°C	24.1°C	33.9°C	23.6°C	31.9°C	22.5°C	26.3°C	18.9°C	22.2°C	16.6°C	17.5°C	14.1°C
1%	93.4°F	75.1°F	91.0°F	74.0°F	86.5°F	70.5°F	76.6°F	64.7°F	68.8°F	60.6°F	59.5°F	54.5°F
	34.1°C	23.9°C	32.8°C	23.3°C	30.3°C	21.4°C	24.8°C	18.2°C	20.4°C	15.9°C	15.3°C	12.5°C
2%	91.4°F	74.4°F	89.1°F	73.4°F	84.1°F	70.1°F	74.4°F	63.9°F	66.1°F	59.4°F	56.0°F	52.0°F
	33.0°C	23.6°C	31.7°C	23.0°C	28.9°C	21.2°C	23.6°C	17.7°C	18.9°C	15.2°C	13.3°C	11.1°C

DB = Dry Bulb, MCWB = Mean Coincident Wet Bulb

Table 2.3-110 {Monthly Design Wet Bulb and Mean Coincident Dry Bulb Temperature Values for Allentown, PA (1972-2001)}

%	Jan		Feb		Mar		Apr		May		Jun	
	WB	**MCDB**	**WB**	**MCDB**	**WB**	**MCDB**	**WB**	**MCDB**	**WB**	**MCDB**	**WB**	**MCDB**
0.4%	58.5°F	60.6°F	55.4°F	59.7°F	63.4°F	75.5°F	66.4°F	80.0°F	72.8°F	83.4°F	77.1°F	87.1°F
	14.7°C	15.9°C	13.0°C	15.4°C	17.4°C	24.2°C	19.1°C	26.7°C	22.7°C	28.6°C	25.1°C	30.6°C
1%	54.1°F	56.1°F	52.4°F	55.7°F	60.4°F	69.0°F	64.4°F	76.8°F	71.1°F	81.7°F	75.5°F	85.0°F
	12.3°C	13.4°C	11.3°C	13.2°C	15.8°C	20.6°C	18.0°C	24.9°C	21.7°C	27.6°C	24.2°C	29.4°C
2%	48.8°F	51.4°F	48.7°F	53.9°F	57.0°F	63.7°F	62.5°F	73.2°F	69.4°F	80.4°F	74.4°F	83.6°F
	9.3°C	10.8°C	9.3°C	12.2°C	13.9°C	17.6°C	16.9°C	22.9°C	20.8°C	26.9°C	23.6°C	28.7°C
%	**Jul**		**Aug**		**Sep**		**Oct**		**Nov**		**Dec**	
	WB	**MCDB**	**WB**	**MCDB**	**WB**	**MCDB**	**WB**	**MCDB**	**WB**	**MCDB**	**WB**	**MCDB**
0.4%	78.5°F	89.8°F	78.0°F	87.3°F	75.4°F	84.0°F	68.8°F	74.1°F	64.5°F	68.5°F	59.2°F	62.7°F
	25.8°C	32.1°C	25.6°C	30.7°C	24.1°C	28.9°C	20.4°C	23.4°C	18.1°C	20.3°C	15.1°C	17.1°C
1%	77.5°F	88.7°F	76.9°F	85.8°F	74.3°F	82.1°F	67.7°F	73.3°F	63.0°F	66.9°F	55.7°F	58.5°F
	25.3°C	31.5°C	24.9°C	29.9°C	23.5°C	27.8°C	19.8°C	22.9°C	17.2°C	19.4°C	13.2°C	14.7°C
2%	76.7°F	87.4°F	75.8°F	84.6°F	73.1°F	80.2°F	66.3°F	72.0°F	61.2°F	65.3°F	52.7°F	55.3°F
	24.8°C	30.8°C	24.3°C	29.2°C	22.8°C	26.8°C	19.1°C	22.2°C	16.2°C	18.5°C	11.5°C	12.9°C

WB = Wet Bulb, MCDB = Mean Coincident Dry Bulb

Table 2.3-111 Monthly Mean Daily Temperature Range in Fahrenheit Degrees for Wilkes-Barre/Scranton, PA

Monthly Mean Daily Temperature Range											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20a	20b	20c	20d	20e	20f	20g	20h	20i	20j	20k	20l
13.3	14.6	16.5	18.5	19.7	19.0	18.8	18.4	18.1	17.8	14.0	12.4

Table 2.3-112 SSES Monthly and Annual Precipitation (2001-2006)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
in	2.65	1.88	2.02	2.83	2.75	4.12	3.50	2.98	4.08	4.44	2.59	2.41	36.25
mm	67.31	47.75	51.31	71.88	69.85	104.65	88.90	75.69	103.63	112.78	65.79	61.21	902.75

Table 2.3-113 SSES Monthly and Annual Percent Frequency (%) of Precipitation Occurrence (2001-2006)

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
8.58	6.11	7.15	7.15	5.71	6.02	4.55	5.06	6.41	7.87	6.09	7.35	6.50

Table 2.3-114 SSES Hourly Rainfall Rate Distribution (2001-2006)

Rainfall Rate in/hr (mm/hr)	0.0 (0.0)	0.0-0.1 (0.0-2.5)	0.1-0.2 (2.5-5.1)	0.2-0.3 (5.1-7.6)	0.3-0.4 (7.6-10.2)	0.4-0.5 (10.2-12.7)	0.5-0.6 (12.7-15.2)	0.6-0.7 (15.2-17.8)	0.7-0.8 (17.8-20.3)	0.8-0.9 (20.3-22.9)	0.9-1.0 (22.9-25.4)	1.0-2.0 (25.4-50.8)	2.0-3.0 (50.8-76.2)	Missing Data
Number of hours	49187	2812	367	106	42	19	15	13	9	6	7	1	0	0

Table 2.3-115 SSES Measured Extreme Precipitation Hourly Values (2001-2006)

Rainfall Amount in (mm)	1.25 (31.75)	0.99 (25.15)	0.99 (25.15)
Date Occurred	09/24/01 13:00	02/08/05 07:00	10/31/06 07:00

Table 2.3-116 {Mean Monthly and Annual Precipitation for Sites Around Bell Bend Nuclear Power Plant (1971-2000)}

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wilkes-Barre/Scranton, PA	in	2.46	2.08	2.69	3.28	3.69	3.97	3.74	3.10	3.86	3.02	3.12	2.55	37.56
	mm	62.48	52.83	68.33	83.31	93.73	100.84	95.00	78.74	98.04	76.71	79.25	64.77	954.02
Allentown, PA	in	3.50	2.75	3.56	3.49	4.47	3.99	4.27	4.35	4.37	3.33	3.70	3.39	45.17
	mm	88.90	69.85	90.42	88.65	113.54	101.35	108.46	110.49	111.00	84.58	93.98	86.11	1147.32
Williamsport, PA	in	2.85	2.61	3.21	3.49	3.79	4.45	4.08	3.38	3.98	3.19	3.62	2.94	41.59
	mm	72.39	66.29	81.53	88.65	96.27	113.03	103.63	85.85	101.09	81.03	91.95	74.68	1056.39
Shickshinny, PA*	in	3.21	2.40	3.44	3.66	4.44	4.61	4.56	3.96	4.48	3.42	3.55	3.21	44.94
	mm	81.53	60.96	87.38	92.96	112.78	117.09	115.82	100.58	113.79	86.87	90.17	81.53	1141.48

* Only precipitation statistics were available for Shickshinny, PA.

Table 2.3-117 {Mean Monthly and Annual Snowfall for Sites Around Bell Bend Nuclear Power Plant (1971-2000)}

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wilkes-Barre/Scranton, PA	in	13.50	10.20	8.70	2.80	0.10	0.00	0.00	0.00	0.00	0.10	4.30	7.30	47.00
	mm	342.90	259.08	220.98	71.12	2.54	0.00	0.00	0.00	Trace	2.54	109.22	185.42	1193.80
Allentown, PA	in	11.10	9.40	5.70	0.80	≤0.05	0.00	0.00	0.00	0.00	0.10	1.40	3.80	32.30
	mm	281.94	238.76	144.78	20.32	=1.27	0.00	0.00	0.00	0.00	2.54	35.56	96.52	820.42
Williamsport, PA	in	12.50	9.30	7.40	1.20	≤0.05	0.00	0.00	0.00	0.00	0.10	3.00	6.50	40.00
	mm	317.50	236.22	187.96	30.48	=1.27	0.00	0.00	0.00	0.00	2.54	76.20	165.10	1016.00

Table 2.3-118 {Monthly Mean Number of Days with Precipitation for Sites Around Bell Bend Nuclear Power Plant (1971-2000)}

SITE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wilkes-Barre/Scranton, PA	12.5	10.8	12.4	12.4	13.0	12.7	11.0	10.9	10.3	10.1	11.6	12.2	139.9
Allentown, PA	11.2	10.2	11.1	11.3	12.4	11.2	10.5	9.4	9.9	8.7	10.0	11.0	126.9
Williamsport, PA	11.4	10.3	11.9	12.1	13.4	12.3	11.3	10.5	10.9	10.2	11.3	11.5	137.1

Table 2.3-119 {Monthly Mean Number of Days with Heavy Fog for Sites Around Bell Bend Nuclear Power Plant (1964-2006)}

SITE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wilkes-Barre/Scranton, PA	1.9	1.9	1.7	1.1	1.0	1.1	1.6	1.9	2.5	1.8	1.5	2.3	20.3
Allentown, PA	2.6	2.3	2.1	1.2	1.3	1.2	1.0	1.5	2.3	2.4	2.0	2.6	22.5
Williamsport, PA	2.0	1.7	1.6	1.5	2.5	2.3	2.5	3.8	7.2	6.2	3.0	2.1	36.4

Table 2.3-120 {SSES 33' (10-m) Annual Stability Persistence Summary for Year 2001}

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SSES JAN01-DEC01 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

STABILITY PERSISTENCE (HOURS)

STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	68	33	17	21	11	6	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
	42	63	73	86	93	97	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	149	51	16	4	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	223
	67	90	97	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	233	61	20	7	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	323
	72	91	97	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	229	173	91	60	35	26	16	19	14	13	7	7	5	4	5	6	5	1	3	2	2	1	3	3	10	740
	31	54	67	75	79	83	85	88	90	91	92	93	94	94	95	96	97	97	97	97	98	98	98	99	100	
E	266	153	99	58	41	27	24	17	14	9	8	4	11	3	3	0	2	0	0	0	0	0	0	0	0	739
	36	57	70	78	83	87	90	93	95	96	97	97	99	99	100	100	100	0	0	0	0	0	0	0	0	
F	200	94	39	35	19	17	9	7	7	2	5	0	2	0	0	0	0	0	0	0	0	0	0	0	0	436
	46	67	76	84	89	93	95	96	98	98	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
G	66	28	20	12	12	7	3	10	6	5	2	3	6	2	1	1	1	0	0	0	0	0	0	0	0	185
	36	51	62	68	75	78	80	85	89	91	92	94	97	98	99	99	100	0	0	0	0	0	0	0	0	
TOTAL	1211	593	302	197	121	84	57	54	41	29	22	14	24	9	9	7	8	1	3	2	2	1	3	3	10	2807

Table 2.3-120 {SSES 33' (10-m) Annual Stability Persistence Summary for Year 2001}

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SSES JAN01-DEC01 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA

STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

STABILITY PERSISTENCE (HOURS)

STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL

PERSISTENCE GREATER THAN 24 HOURS

STABILITY	HOURS	NUMBER
D	25	0
D	26	0
D	27	0
D	28	0
D	29	0
D	30	1
D	31	0
D	32	1
D	33	0
D	34	0
D	35	0
D	36	0
D	37	1
D	38	0
D	39	0
D	40	0
D	41	0
D	42	1
D	43	0
D	44	1
D	45	1
D	46	0
D	47	1

PERSISTENCE GREATER THAN 24 HOURS

STABILITY	HOURS	NUMBER
D	48	0
D	49	0
D	50	0
D	51	0
D	52	0
D	53	0
D	54	0
D	55	1
D	56	0
D	57	1
D	58	0
D	59	0
D	60	0
D	61	0
D	62	0
D	63	0
D	64	0
D	65	1

Table 2.3-121 {SSES 33' (10-m) Annual Stability Persistence Summary for Year 2002}

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SSES JAN02-DEC02 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	STABILITY PERSISTENCE (HOURS)																									
STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	59	35	14	10	5	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130
	45	72	83	91	95	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	152	41	19	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	219
	69	88	97	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	231	42	24	6	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	306
	75	89	97	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	207	160	98	46	44	29	17	24	14	11	5	10	7	7	10	7	5	1	1	3	0	2	4	1	17	730
	28	50	64	70	76	80	82	86	88	89	90	91	92	93	94	95	96	96	96	97	97	97	98	98	100	
E	253	169	75	55	41	29	17	21	11	10	8	1	3	4	2	2	1	2	1	2	0	0	0	1	0	708
	36	60	70	78	84	88	90	93	95	96	97	97	98	98	99	99	99	99	100	100	100	100	100	100	0	
F	195	67	48	34	28	13	9	10	3	3	2	2	1	0	1	0	0	1	0	0	0	0	0	0	0	417
	47	63	74	82	89	92	94	97	98	98	99	99	100	100	100	100	100	100	0	0	0	0	0	0	0	
G	47	24	21	18	15	6	6	7	5	7	6	4	3	0	0	1	0	0	0	0	0	0	0	0	0	170
	28	42	54	65	74	77	81	85	88	92	95	98	99	99	99	100	0	0	0	0	0	0	0	0	0	
TOTAL	1144	538	299	173	137	86	49	62	33	31	21	17	14	11	13	10	6	4	2	5	0	2	4	2	17	2680

Table 2.3-121 {SSES 33' (10-m) Annual Stability Persistence Summary for Year 2002}

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SSES JAN02-DEC02 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

STABILITY PERSISTENCE (HOURS)

STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL

PERSISTENCE GREATER THAN 24 HOURS

STABILITY	HOURS	NUMBER
D	25	1
D	26	1
D	27	1
D	28	0
D	29	1
D	30	2
D	31	0
D	32	3
D	33	1
D	34	0
D	35	1
D	36	1
D	37	1
D	38	1
D	39	0
D	40	0
D	41	0
D	42	1
D	43	0
D	44	0
D	45	0
D	46	0
D	47	0

PERSISTENCE GREATER THAN 24 HOURS

STABILITY	HOURS	NUMBER
D	48	0
D	49	0
D	50	1
D	51	0
D	52	0
D	53	0
D	54	0
D	55	0
D	56	0
D	57	0
D	58	0
D	59	0
D	60	0
D	61	0
D	62	0
D	63	1

Table 2.3-122 {SSES 33' (10-m) Annual Stability Persistence Summary for Year 2003}

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SSES JAN03-DEC03 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

STABILITY PERSISTENCE (HOURS)

STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	36	13	8	14	8	9	5	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
	35	48	55	69	77	85	90	97	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	93	17	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116
	80	95	98	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	146	30	9	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	189
	77	93	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	192	132	83	58	40	21	25	28	25	29	19	15	8	6	5	4	8	4	3	3	3	0	2	1	12	726
	26	45	56	64	70	72	76	80	83	87	90	92	93	94	94	95	96	97	97	98	98	98	98	98	100	
E	287	157	106	56	38	32	19	13	16	11	14	7	6	4	6	0	2	2	1	0	1	1	0	0	0	779
	37	57	71	78	83	87	89	91	93	94	96	97	98	98	99	99	99	100	100	100	100	100	0	0	0	
F	147	89	45	21	30	13	8	6	4	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	366
	40	64	77	83	91	94	96	98	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
G	32	21	15	13	10	4	8	8	2	2	3	3	1	4	0	0	1	0	0	0	0	0	0	0	0	127
	25	42	54	64	72	75	81	87	89	91	93	95	96	99	99	99	100	0	0	0	0	0	0	0	0	
TOTAL	933	459	270	167	127	79	65	62	50	43	37	26	15	14	11	4	11	6	4	3	4	1	2	1	12	2406

Table 2.3-122 {SSES 33' (10-m) Annual Stability Persistence Summary for Year 2003}

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SSES JAN03-DEC03 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

STABILITY PERSISTENCE (HOURS)

STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL

PERSISTENCE GREATER THAN 24 HOURS

STABILITY	HOURS	NUMBER	STABILITY	HOURS	NUMBER
D	25	1	D	44	0
D	26	0	D	45	0
D	27	1	D	46	0
D	28	0	D	47	0
D	29	1	D	48	0
D	30	0	D	49	0
D	31	0	D	50	0
D	32	0	D	51	0
D	33	0	D	52	0
D	34	1	D	53	0
D	35	0	D	54	0
D	36	0	D	55	0
D	37	1	D	56	1
D	38	2	D	57	0
D	39	2	D	58	0
D	40	1	D	59	1
D	41	0			
D	42	0			
D	43	0			

Table 2.3-123 {SSES 33' (10-m) Annual Stability Persistence Summary for Year 2004}
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SSES JAN04-DEC04 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	STABILITY PERSISTENCE (HOURS)																									
STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	65	24	13	10	4	5	3	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129
	50	69	79	87	90	94	96	98	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	128	53	13	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
	65	92	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	220	70	16	9	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	317
	69	91	97	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	232	151	80	53	46	28	30	20	20	11	12	7	8	2	6	4	5	4	2	1	4	2	3	1	14	746
	31	51	62	69	75	79	83	86	88	90	92	92	94	94	95	95	96	96	97	97	97	98	98	98	100	
E	222	127	90	71	41	31	28	33	18	6	13	9	5	6	3	5	3	3	1	0	3	0	0	0	0	718
	31	49	61	71	77	81	85	90	92	93	95	96	97	97	98	99	99	99	100	100	100	0	0	0	0	
F	134	65	48	22	22	15	13	9	4	2	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	338
	40	59	73	80	86	91	94	97	98	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	
G	33	24	6	7	7	8	3	9	4	2	1	2	0	0	2	1	0	0	0	0	0	0	0	0	0	109
	30	52	58	64	71	78	81	89	93	94	95	97	97	97	99	100	0	0	0	0	0	0	0	0	0	
TOTAL	1034	514	266	173	123	88	77	74	48	21	28	18	14	9	11	10	8	7	3	1	7	2	3	1	14	2554

Table 2.3-123 {SSES 33' (10-m) Annual Stability Persistence Summary for Year 2004}

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SSES JAN04-DEC04 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	STABILITY PERSISTENCE (HOURS)																								
STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL

PERSISTENCE GREATER THAN 24 HOURS			PERSISTENCE GREATER THAN 24 HOURS		
STABILITY	HOURS	NUMBER	STABILITY	HOURS	NUMBER
D	25	3	D	44	0
D	26	0	D	45	0
D	27	3	D	46	0
D	28	1	D	47	0
D	29	0	D	48	0
D	30	2	D	49	0
D	31	0	D	50	0
D	32	1	D	51	0
D	33	0	D	52	0
D	34	0	D	53	1
D	35	0			
D	36	0			
D	37	2			
D	38	0			
D	39	0			
D	40	0			
D	41	1			
D	42	0			
D	43	0			

Table 2.3-124 {SSES 33' (10-m) Annual Stability Persistence Summary for Year 2005}

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SSES JAN05-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

STABILITY PERSISTENCE (HOURS)

STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	67	28	30	19	19	21	27	23	21	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	256
	26	37	49	56	64	72	82	91	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	183	37	7	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	229
	80	96	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	217	31	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	261
	83	95	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	264	126	74	49	28	15	15	13	13	9	8	5	5	4	4	5	1	2	1	2	2	3	1	2	10	661
	40	59	70	78	82	84	86	88	90	92	93	94	94	95	96	96	97	97	97	97	98	98	98	98	100	
E	267	137	72	48	27	33	26	15	9	6	5	9	7	1	4	5	3	1	1	1	1	0	1	1	5	685
	39	59	69	76	80	85	89	91	93	93	94	95	96	97	97	98	98	99	99	99	99	99	99	99	100	
F	194	78	53	41	17	18	12	5	2	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	427
	45	64	76	86	90	94	97	98	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G	57	25	19	20	11	6	8	5	10	6	1	3	2	3	3	0	1	0	0	0	0	0	0	0	0	180
	32	46	56	67	73	77	81	84	89	93	93	95	96	98	99	99	100	0	0	0	0	0	0	0	0	
TOTAL	1249	462	267	179	102	94	88	61	55	26	17	17	14	8	11	10	5	3	2	3	3	3	2	3	15	2699

Table 2.3-124 {SSES 33' (10-m) Annual Stability Persistence Summary for Year 2005}

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SSES JAN05-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA

STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

STABILITY PERSISTENCE (HOURS)

STABILITY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 GT.24 TOTAL

PERSISTENCE GREATER THAN 24 HOURS			PERSISTENCE GREATER THAN 24 HOURS		
STABILITY	HOURS	NUMBER	STABILITY	HOURS	NUMBER
D	25	0	D	50	0
D	26	1	D	51	0
D	27	1	D	52	0
D	28	1	D	53	0
D	29	0	D	54	0
D	30	0	D	55	0
D	31	0	D	56	0
D	32	1	D	57	0
D	33	1	D	58	0
D	34	1	D	59	1
D	35	0			
D	36	0	E	25	0
D	37	1	E	26	0
D	38	0	E	27	0
D	39	0	E	28	0
D	40	1	E	29	0
D	41	0	E	30	0
D	42	0	E	31	1
D	43	0	E	32	0
D	44	0	E	33	0
D	45	0	E	34	1
D	46	1	E	35	0
D	47	0	E	36	1
D	48	0	E	37	1
D	49	0	E	38	0

Table 2.3-124 {SSES 33' (10-m) Annual Stability Persistence Summary for Year 2005}

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SSES JAN05-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

STABILITY PERSISTENCE (HOURS)

STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL

PERSISTENCE GREATER THAN 24 HOURS

STABILITY	HOURS	NUMBER
E	39	0
E	40	0
E	41	0
E	42	0
E	43	0
E	44	0
E	45	0
E	46	0
E	47	0
E	48	0
E	49	0
E	50	0
E	51	0
E	52	0
E	53	0
E	54	1

Table 2.3-125 {SSES 33' (10-m) Annual Stability Persistence Summary for Year 2006}

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SSES JAN06-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY
STABILITY PERSISTENCE (HOURS)

STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	37	21	14	10	16	11	13	17	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	145
	26	40	50	57	68	75	84	96	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	144	27	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	178
	81	96	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	199	35	5	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	245
	81	96	98	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	205	120	90	45	30	23	20	21	15	6	9	7	4	5	7	3	5	0	0	3	1	2	2	3	26	652
	31	50	64	71	75	79	82	85	87	88	90	91	91	92	93	94	94	94	94	95	95	95	96	96	100	
E	258	154	91	58	30	25	24	15	12	14	4	5	5	4	1	4	1	1	3	0	0	0	0	0	3	712
	36	58	71	79	83	87	90	92	94	96	96	97	98	98	98	99	99	99	100	100	100	100	100	100	100	
F	184	70	41	43	12	15	8	10	4	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	392
	47	65	75	86	89	93	95	98	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
G	40	28	12	13	15	5	3	4	13	5	1	1	0	2	1	1	2	1	0	0	0	0	0	0	0	147
	27	46	54	63	73	77	79	82	90	94	95	95	95	97	97	98	99	100	0	0	0	0	0	0	0	
TOTAL	1067	455	258	175	105	79	68	67	49	29	15	14	9	11	9	8	8	2	3	3	1	2	2	3	29	2471

Table 2.3-125 {SSES 33' (10-m) Annual Stability Persistence Summary for Year 2006}

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SSES JAN06-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY
STABILITY PERSISTENCE (HOURS)

STABILITY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 GT.24 TOTAL

PERSISTENCE GREATER THAN 24 HOURS			PERSISTENCE GREATER THAN 24 HOURS		
STABILITY	HOURS	NUMBER	STABILITY	HOURS	NUMBER
D	25	1	D	55	0
D	26	3	D	56	0
D	27	1	D	57	0
D	28	1	D	58	1
D	29	2	D	59	0
D	30	0	D	60	1
D	31	2	D	61	1
D	32	0	D	62	0
D	33	0	D	63	1
D	34	2	D	64	0
D	35	0	D	65	0
D	36	0	D	66	0
D	37	0	D	67	0
D	38	0	D	68	0
D	39	2	D	69	0
D	40	1	D	70	1
D	41	0	D	71	0
D	42	0	D	72	0
D	43	1	D	73	0
D	44	1	D	74	0
D	45	0	D	75	0
D	46	1	D	76	0
D	47	0	D	77	1
D	48	0			
D	49	0	E	25	1
D	50	2	E	26	0
D	51	0	E	27	0
D	52	0	E	28	1
D	53	0	E	29	0

Table 2.3-125 {SSES 33' (10-m) Annual Stability Persistence Summary for Year 2006}

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SSES JAN06-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
33.0 FT WIND DATA
STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY
STABILITY PERSISTENCE (HOURS)

STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
		D				54				0						E				30				1		

Table 2.3-126 {SSES 33' (10-m) Annual Stability Persistence Summary for Years 2001-2006}

STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	59.2	28.2	17.6	14	11	10	9.4	8.8	5.6	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	164.2
	45	58.8	68.4	78.2	83.6	89.4	73.2	78.4	60.4	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.6
B	151.2	41.8	12	2.2	1.6	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	209.2
	91	95.8	98.8	99.6	100	40	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23.2
C	220	47.8	15.4	5.6	0.8	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	290.4
	105.2	98.4	99.6	100	80	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37.8
D	227.4	146	86.6	50.6	36.6	24.2	19.6	19.4	15.2	10	8.2	7.2	5.8	4.4	6.4	5	4.2	1.6	1.4	2.2	1.8	2	2.6	2	15.4	705.8
	70.6	79.2	82	84.2	85.4	85.2	88.6	92.2	93.6	95.8	95.2	95.2	94.6	94.8	95.6	96	97.6	96.8	96.8	97.2	97.6	97.2	98	98	102.4	145.2
E	253.2	148	85.4	58	36	29	23.8	20.2	12.8	9	7.6	5.6	6.2	3.6	2.6	3.2	2	1.4	1.2	0.6	0.8	0	0.2	0.4	1.6	712.4
	93	88	89.4	87.6	89	92	92.6	94.4	97	97	98.6	97.8	98.8	98.6	99.6	99	99.4	79.6	80	79.8	80	60	59.8	59.8	40	155.8
F	181.4	74.8	45.8	35	19.6	15.6	10.2	8.2	4	2.8	2.6	0.6	0.8	0.2	0.2	0	0	0.2	0	0	0	0	0	0	0	402
	74.4	81.4	83.8	87.8	94.6	95.2	96.6	98.4	99	98.8	99.8	79.8	60	40	20	20	20	20	0	0	0	0	0	0	0	73.2
G	48.6	25.8	15.6	14	12	6.4	4.6	7	7.6	5	2.2	2.6	2.2	1.4	1.4	0.8	0.8	0.2	0	0	0	0	0	0	0	158.2
	37	51.6	59.8	68	75.2	78.2	82	86.6	90.2	93.2	94.6	96.4	97	98.6	98.6	99.2	60	20	0	0	0	0	0	0	0	25.4
TOTAL	1141	512.4	278.4	179	117.6	86.2	67.8	63.6	45.2	27.2	20.6	16	15	9.6	10.6	9	7	3.4	2.6	2.8	2.6	2	2.8	2.4	17	2642.2

Table 2.3-127 {SSES 197' (60-m) Annual Stability Persistence Summary for Year 2001}

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SSES JAN01-DEC01 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	STABILITY PERSISTENCE (HOURS)																									
STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	68	33	17	21	11	6	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
	42	63	73	86	93	97	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	149	51	16	4	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	223
	67	90	97	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	233	61	20	7	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	323
	72	91	97	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	229	173	91	60	35	26	16	19	14	13	7	7	5	4	5	6	5	1	3	2	2	1	3	3	10	740
	31	54	67	75	79	83	85	88	90	91	92	93	94	94	95	96	97	97	97	97	98	98	98	99	100	
E	267	155	98	57	41	27	24	17	14	9	8	4	11	3	3	0	2	0	0	0	0	0	0	0	0	740
	36	57	70	78	84	87	90	93	95	96	97	97	99	99	100	100	100	0	0	0	0	0	0	0	0	
F	201	94	39	35	19	16	9	7	7	2	5	0	2	0	0	0	0	0	0	0	0	0	0	0	0	436
	46	68	77	85	89	93	95	96	98	98	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
G	66	28	20	12	12	7	3	10	6	5	2	3	6	2	1	1	1	0	0	0	0	0	0	0	0	185
	36	51	62	68	75	78	80	85	89	91	92	94	97	98	99	99	100	0	0	0	0	0	0	0	0	
TOTAL	1213	595	301	196	121	83	57	54	41	29	22	14	24	9	9	7	8	1	3	2	2	1	3	3	10	2808

Table 2.3-127 {SSES 197' (60-m) Annual Stability Persistence Summary for Year 2001}

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SSES JAN01-DEC01 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA

STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

STABILITY PERSISTENCE (HOURS)

STABILITY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 GT.24 TOTAL

PERSISTENCE GREATER THAN 24 HOURS

STABILITY	HOURS	NUMBER
D	25	0
D	26	0
D	27	0
D	28	0
D	29	0
D	30	1
D	31	0
D	32	1
D	33	0
D	34	0
D	35	0
D	36	0
D	37	1
D	38	0
D	39	0
D	40	0
D	41	0
D	42	1
D	43	0
D	44	1
D	45	1
D	46	0
D	47	1
D	48	0
D	49	0

PERSISTENCE GREATER THAN 24 HOURS

STABILITY	HOURS	NUMBER
D	50	0
D	51	0
D	52	0
D	53	0
D	54	0
D	55	1
D	56	0
D	57	1
D	58	0
D	59	0
D	60	0
D	61	0
D	62	0
D	63	0
D	64	0
D	65	1

Table 2.3-128 {SSES 197' (60-m) Annual Stability Persistence Summary for Year 2002}
(Page 1 of 2)

SSES JAN02-DEC02 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

STABILITY PERSISTENCE (HOURS)

STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	59	35	14	10	5	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130
	45	72	83	91	95	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	152	41	19	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	219
	69	88	97	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	231	42	24	6	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	306
	75	89	97	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	207	160	98	46	44	29	17	24	14	11	5	10	7	7	10	7	5	1	1	3	0	2	4	1	17	730
	28	50	64	70	76	80	82	86	88	89	90	91	92	93	94	95	96	96	96	97	97	97	98	98	100	
E	253	169	75	55	41	29	17	21	11	10	8	1	3	4	2	2	1	2	1	2	0	0	0	1	0	708
	36	60	70	78	84	88	90	93	95	96	97	97	98	98	99	99	99	99	100	100	100	100	100	100	0	
F	195	67	48	34	28	13	9	10	3	3	2	2	1	0	1	0	0	1	0	0	0	0	0	0	0	417
	47	63	74	82	89	92	94	97	98	98	99	99	100	100	100	100	100	100	0	0	0	0	0	0	0	
G	47	24	21	18	15	6	6	7	5	7	6	4	3	0	0	1	0	0	0	0	0	0	0	0	0	170
	28	42	54	65	74	77	81	85	88	92	95	98	99	99	99	100	0	0	0	0	0	0	0	0	0	
TOTAL	1144	538	299	173	137	86	49	62	33	31	21	17	14	11	13	10	6	4	2	5	0	2	4	2	17	2680

Table 2.3-128 {SSES 197' (60-m) Annual Stability Persistence Summary for Year 2002}

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SSES JAN02-DEC02 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA

STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

STABILITY PERSISTENCE (HOURS)

STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL

PERSISTENCE GREATER THAN 24 HOURS

STABILITY	HOURS	NUMBER
D	25	1
D	26	1
D	27	1
D	28	0
D	29	1
D	30	2
D	31	0
D	32	3
D	33	1
D	34	0
D	35	1
D	36	1
D	37	1
D	38	1
D	39	0
D	40	0
D	41	0
D	42	1
D	43	0
D	44	0
D	45	0
D	46	0
D	47	0
D	48	0
D	49	0

PERSISTENCE GREATER THAN 24 HOURS

STABILITY	HOURS	NUMBER
D	50	1
D	51	0
D	52	0
D	53	0
D	54	0
D	55	0
D	56	0
D	57	0
D	58	0
D	59	0
D	60	0
D	61	0
D	62	0
D	63	1

Table 2.3-129 {SSES 197' (60-m) Annual Stability Persistence Summary for Year 2003}

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SSES JAN03-DEC03 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA

STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

STABILITY PERSISTENCE (HOURS)

STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	35	13	7	15	8	9	5	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102
	34	47	54	69	76	85	90	97	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	93	17	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116
	80	95	98	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	146	30	9	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	189
	77	93	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	193	131	84	58	40	20	24	28	25	29	19	15	8	6	5	4	8	4	3	3	3	0	2	1	12	725
	27	45	56	64	70	73	76	80	83	87	90	92	93	94	94	95	96	97	97	98	98	98	98	98	100	
E	285	158	106	57	38	33	18	13	15	11	14	7	6	4	6	0	2	2	1	0	1	1	0	0	0	778
	37	57	71	78	83	87	89	91	93	94	96	97	98	98	99	99	99	100	100	100	100	100	0	0	0	
F	147	88	43	21	30	13	8	6	4	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	363
	40	65	77	82	91	94	96	98	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
G	34	20	15	12	11	5	8	7	2	1	3	3	1	4	0	0	1	0	0	0	0	0	0	0	0	127
	27	43	54	64	72	76	83	88	90	91	93	95	96	99	99	99	100	0	0	0	0	0	0	0	0	
TOTAL	933	457	268	168	128	80	63	61	49	42	37	26	15	14	11	4	11	6	4	3	4	1	2	1	12	2400

Table 2.3-129 {SSES 197' (60-m) Annual Stability Persistence Summary for Year 2003}

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SSES JAN03-DEC03 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA

STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	STABILITY PERSISTENCE (HOURS)																								
STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL

PERSISTENCE GREATER THAN 24 HOURS

STABILITY	HOURS	NUMBER
D	25	1
D	26	0
D	27	1
D	28	0
D	29	1
D	30	0
D	31	0
D	32	0
D	33	0
D	34	1
D	35	0
D	36	0
D	37	1
D	38	2
D	39	2
D	40	1
D	41	0
D	42	0
D	43	0
D	44	0
D	45	0
D	46	0
D	47	0

PERSISTENCE GREATER THAN 24 HOURS

STABILITY	HOURS	NUMBER
D	48	0
D	49	0
D	50	0
D	51	0
D	52	0
D	53	0
D	54	0
D	55	0
D	56	1
D	57	0
D	58	0
D	59	1

Table 2.3-130 {SSES 197' (60-m) Annual Stability Persistence Summary for Year 2004}

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SSES JAN04-DEC04 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	STABILITY PERSISTENCE (HOURS)																									
STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	65	24	13	10	4	5	3	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129
	50	69	79	87	90	94	96	98	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	128	53	13	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
	65	92	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	221	70	16	9	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	318
	69	92	97	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	232	151	80	53	46	27	31	20	20	11	12	7	8	2	6	4	5	4	2	1	4	2	3	1	14	746
	31	51	62	69	75	79	83	86	88	90	92	92	94	94	95	95	96	96	97	97	97	98	98	98	100	
E	222	127	90	71	41	31	28	33	18	6	13	9	5	6	3	5	3	3	1	0	3	0	0	0	0	718
	31	49	61	71	77	81	85	90	92	93	95	96	97	97	98	99	99	99	100	100	100	0	0	0	0	
F	134	65	48	22	22	15	13	9	4	2	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	338
	40	59	73	80	86	91	94	97	98	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	
G	33	24	6	7	7	8	3	9	4	2	1	2	0	0	2	1	0	0	0	0	0	0	0	0	0	109
	30	52	58	64	71	78	81	89	93	94	95	97	97	97	99	100	0	0	0	0	0	0	0	0	0	
TOTAL	1035	514	266	173	123	87	78	74	48	21	28	18	14	9	11	10	8	7	3	1	7	2	3	1	14	2555

Table 2.3-130 {SSES 197' (60-m) Annual Stability Persistence Summary for Year 2004}

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SSES JAN04-DEC04 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA

STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

STABILITY PERSISTENCE (HOURS)

STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL

PERSISTENCE GREATER THAN 24 HOURS

STABILITY	HOURS	NUMBER
D	25	3
D	26	0
D	27	3
D	28	1
D	29	0
D	30	2
D	31	0
D	32	1
D	33	0
D	34	0
D	35	0
D	36	0
D	37	2
D	38	0
D	39	0
D	40	0
D	41	1
D	42	0
D	43	0
D	44	0

PERSISTENCE GREATER THAN 24 HOURS

STABILITY	HOURS	NUMBER
D	45	0
D	46	0
D	47	0
D	48	0
D	49	0
D	50	0
D	51	0
D	52	0
D	53	1

Table 2.3-131 {SSES 197' (60-m) Annual Stability Persistence Summary for Year 2005}

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SSES JAN05-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	STABILITY PERSISTENCE (HOURS)																									
STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	53	26	19	14	9	18	18	19	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	185
	29	43	53	61	65	75	85	95	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	148	31	6	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	187
	79	96	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	170	26	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	208
	82	94	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	204	96	64	45	23	14	14	11	13	9	8	5	5	4	4	5	1	2	1	2	2	3	1	2	10	548
	37	55	66	75	79	81	84	86	88	90	91	92	93	94	95	96	96	96	96	97	97	98	98	98	100	
E	216	114	57	41	27	30	23	11	7	5	2	7	3	1	4	4	3	1	1	1	1	0	1	1	5	566
	38	58	68	76	80	86	90	92	93	94	94	95	96	96	97	98	98	98	98	99	99	99	99	99	100	
F	168	64	42	30	15	12	7	4	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	346
	49	67	79	88	92	96	98	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G	48	22	17	15	9	6	6	5	7	6	1	3	2	3	3	0	1	0	0	0	0	0	0	0	0	154
	31	45	56	66	72	76	80	83	88	92	92	94	95	97	99	99	100	0	0	0	0	0	0	0	0	
TOTAL	1007	379	216	147	83	81	68	50	37	23	11	15	10	8	11	9	5	3	2	3	3	3	2	3	15	2194

Table 2.3-131 {SSES 197' (60-m) Annual Stability Persistence Summary for Year 2005}

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SSES JAN05-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA

STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

STABILITY PERSISTENCE (HOURS)

STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL

PERSISTENCE GREATER THAN 24 HOURS			PERSISTENCE GREATER THAN 24 HOURS		
STABILITY	HOURS	NUMBER	STABILITY	HOURS	NUMBER
D	25	0	D	50	0
D	26	1	D	51	0
D	27	1	D	52	0
D	28	1	D	53	0
D	29	0	D	54	0
D	30	0	D	55	0
D	31	0	D	56	0
D	32	1	D	57	0
D	33	1	D	58	0
D	34	1	D	59	1
D	35	0			
D	36	0	E	25	0
D	37	1	E	26	0
D	38	0	E	27	0
D	39	0	E	28	0
D	40	1	E	29	0
D	41	0	E	30	0
D	42	0	E	31	1
D	43	0	E	32	0
D	44	0	E	33	0
D	45	0	E	34	1
D	46	1	E	35	0
D	47	0	E	36	1
D	48	0	E	37	1
D	49	0	E	38	0

Table 2.3-131 {SSES 197' (60-m) Annual Stability Persistence Summary for Year 2005}

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SSES JAN05-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

STABILITY PERSISTENCE (HOURS)

STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL

PERSISTENCE GREATER THAN 24 HOURS

STABILITY	HOURS	NUMBER
E	39	0
E	40	0
E	41	0
E	42	0
E	43	0
E	44	0
E	45	0
E	46	0
E	47	0
E	48	0
E	49	0
E	50	0
E	51	0
E	52	0
E	53	0
E	54	1

Table 2.3-132 {SSES 197' (60-m) Annual Stability Persistence Summary for Year 2006}

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SSES JAN06-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

STABILITY PERSISTENCE (HOURS)

STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	37	21	14	10	16	11	13	17	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	145
	26	40	50	57	68	75	84	96	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	144	27	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	178
	81	96	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	199	35	5	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	245
	81	96	98	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	205	120	90	45	30	23	20	21	15	6	9	7	4	5	7	3	5	0	0	3	1	2	2	3	26	652
	31	50	64	71	75	79	82	85	87	88	90	91	91	92	93	94	94	94	94	95	95	95	96	96	100	
E	258	154	91	58	30	25	24	15	12	14	4	5	5	4	1	4	1	1	3	0	0	0	0	0	3	712
	36	58	71	79	83	87	90	92	94	96	96	97	98	98	98	99	99	99	100	100	100	100	100	100	100	
F	183	70	41	43	12	15	8	10	4	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	391
	47	65	75	86	89	93	95	98	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
G	40	28	12	13	15	5	3	4	13	5	1	1	0	2	1	1	2	1	0	0	0	0	0	0	0	147
	27	46	54	63	73	77	79	82	90	94	95	95	95	97	97	98	99	100	0	0	0	0	0	0	0	
TOTAL	1066	455	258	175	105	79	68	67	49	29	15	14	9	11	9	8	8	2	3	3	1	2	2	3	29	2470

Table 2.3-132 {SSES 197' (60-m) Annual Stability Persistence Summary for Year 2006}

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SSES JAN06-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

	STABILITY PERSISTENCE (HOURS)																								
STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL

PERSISTENCE GREATER THAN 24 HOURS			PERSISTENCE GREATER THAN 24 HOURS		
STABILITY	HOURS	NUMBER	STABILITY	HOURS	NUMBER
D	25	1	D	49	0
D	26	3	D	50	2
D	27	1	D	51	0
D	28	1	D	52	0
D	29	2	D	53	0
D	30	0	D	54	0
D	31	2	D	55	0
D	32	0	D	56	0
D	33	0	D	57	0
D	34	2	D	58	1
D	35	0	D	59	0
D	36	0	D	60	1
D	37	0	D	61	1
D	38	0	D	62	0
D	39	2	D	63	1
D	40	1	D	64	0
D	41	0	D	65	0
D	42	0	D	66	0
D	43	1	D	67	0
D	44	1	D	68	0
D	45	0	D	69	0
D	46	1	D	70	1
D	47	0	D	71	0
D	48	0	D	72	0

Table 2.3-132 {SSES 197' (60-m) Annual Stability Persistence Summary for Year 2006}

(Page 3 of 3)

SSES JAN06-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)
197.0 FT WIND DATA
STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

STABILITY PERSISTENCE (HOURS)

STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL

PERSISTENCE GREATER THAN 24 HOURS

STABILITY	HOURS	NUMBER
D	73	0
D	74	0
D	75	0
D	76	0
D	77	1
E	25	1
E	26	0
E	27	0
E	28	1
E	29	0
E	30	1

Table 2.3-133 {SSES 197' (60-m) Annual Stability Persistence Summary for Years 2001-2006}

STABILITY PERSISTENCE SUMMARY - NUMBER OF OBSERVATIONS AND PERCENT PROBABILITY

STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	56.4	27.8	15.4	13	9	9.4	7.6	8	3.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150
	45.4	60	69	79.4	83.8	90	73.8	79.2	60.4	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.4
B	144.2	40.6	11.8	2.2	1.6	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200.8
	90.8	95.8	98.8	99.4	99.8	40	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23.2
C	210.8	46.8	15.2	5.6	0.8	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	280
	105	98.4	99.6	100	80	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37.8
D	215.4	140	84.6	49.8	35.6	23.8	19.6	19	15.2	10	8.2	7.2	5.8	4.4	6.4	5	4.2	1.6	1.4	2.2	1.8	2	2.6	2	15.4	683.2
	70.2	78.2	81.4	83.6	84.8	84.4	88	91.8	93.2	95.4	94.8	94.8	94.4	94.6	95.4	96	97.4	96.6	96.6	97.2	97.4	97.2	98	98	102.4	145
E	243.2	143.8	82.2	56.4	36	28.4	23.2	19.4	12.4	8.8	7	5.2	5.4	3.6	2.6	3	2	1.4	1.2	0.6	0.8	0	0.2	0.4	1.6	688.8
	92.4	88	89.2	87.8	89.2	92.4	92.6	94.6	96.8	97.2	98.6	97.8	98.8	98.4	99.6	99	99.4	79.4	79.8	79.8	80	60	59.8	59.8	40	155.6
F	176.2	72	43.6	32.8	19.2	14.2	9.2	8	3.8	2.6	2	0.6	0.8	0.2	0.2	0	0	0.2	0	0	0	0	0	0	0	385.6
	75.2	82	84.2	88.4	95	95.6	96.8	98.6	99.2	99	79.8	79.8	60	40	20	20	20	20	0	0	0	0	0	0	0	72.6
G	46.8	25.2	15.2	13	11.6	6.4	4.2	7	7	5	2.2	2.6	2.2	1.4	1.4	0.8	0.8	0.2	0	0	0	0	0	0	0	153
	37.2	51.2	59.8	67.6	75.2	78.2	81.8	86.2	90	92.8	94.4	96.2	96.8	98.4	98.6	99.2	60	20	0	0	0	0	0	0	0	25.4
TOTAL	1093	496.2	268	173	113.8	83.2	64	61.4	41.6	26.6	19.4	15.6	14.2	9.6	10.6	8.8	7	3.4	2.6	2.8	2.6	2	2.8	2.4	17	2541.4

Table 2.3-134 SSES Monthly Atmospheric Stability Summary (2001-2006)

Stability	Frequency of Occurrence by Percent											
Class	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A	1.84	3.77	5.69	8.77	6.86	8.43	11.16	11.16	7.01	2.55	0.87	0.78
B	1.66	3.16	3.23	3.64	3.91	4.54	4.57	3.85	3.73	2.39	1.37	0.76
C	2.49	4.14	3.92	4.96	5.72	5.37	6.03	4.89	5.09	3.69	2.7	2.04
D	50.31	46.57	46.53	40.89	38.78	33.24	28.88	27.25	29.05	37.57	40.5	45.99
E	28.49	26.38	23.77	24.79	26.12	28.12	29.79	32.12	31.48	32.38	31.09	30.58
F	8.49	9.54	9.12	7.33	11.99	14.31	15.59	15.37	16.25	12.28	11.27	11.67
G	6.72	6.43	7.75	9.62	6.62	6	3.99	5.36	7.38	9.14	12.21	8.18
Stability	Frequency of Occurrence by Number of Hours											
Class	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A	82	153	254	378	291	364	498	498	303	112	36	35
B	74	128	144	157	166	196	204	172	161	105	57	34
C	111	168	175	214	243	232	269	218	220	162	112	91
D	2246	1889	2077	1763	1646	1436	1289	1216	1255	1649	1682	2053
E	1272	1070	1061	1069	1109	1215	1330	1433	1360	1421	1291	1365
F	379	387	407	316	509	618	696	686	702	539	468	521
G	300	261	346	415	281	259	178	239	319	401	507	365

Table 2.3-135 Monthly and Annual Average Mixing Height Values (m)

Month	Year											monthly	annual
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	average	average
JAN	977	791	958	929	911	930	969	1120	831	781	1098	935	1055
FEB	995	685	1093	993	1362	1089	1037	905	865	1390	1172	1003	
MAR	1148	1333	1189	1111	1105	1421	1081	1184	1082	1187	942	1184	
APR	1371	1229	1028	1288	1185	1420	997	1290	1189	1094	1296	1222	
MAY	1375	929	944	1131	1318	1385	993	1223	1295	1185	1235	1177	
JUN	899	1060	1103	1086	1253	1088	965	1120	1134	968	1145	1079	
JUL	1143	1205	1151	925	1127	1012	1260	982	1147	1101	1253	1106	
AUG	1053	860	1108	860	1162	1073	964	1144	1255	1041	952	1053	
SEP	978	927	869	909	1003	896	913	770	1150	898	1015	935	
OCT	1011	958	1040	907	1292	900	1039	752	799	1147	910	966	
NOV	989	1065	1083	1002	899	1203	975	962	1131	1006		1034	
DEC	845	1044	1007	1097	1025	908	887	954	875	1045		960	

Table 2.3-136 Monthly and Annual Average Mixing Height Values (ft)

Month	Year											monthly	annual
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	average	average
JAN	3205	2595	3143	3048	2988	3049	3177	3675	2725	2563	3601	3067	3459
FEB	3263	2247	3584	3259	4467	3572	3402	2969	2839	4558	3844	3289	
MAR	3765	4374	3901	3643	3623	4660	3547	3884	3549	3893	3089	3883	
APR	4496	4032	3373	4225	3888	4656	3269	4230	3901	3587	4250	4008	
MAY	4511	3046	3096	3710	4322	4543	3257	4010	4248	3886	4052	3860	
JUN	2947	3477	3617	3564	4109	3570	3166	3674	3719	3174	3755	3538	
JUL	3749	3952	3774	3034	3696	3318	4134	3222	3762	3612	4109	3627	
AUG	3453	2821	3633	2821	3812	3518	3163	3751	4115	3414	3123	3454	
SEP	3207	3041	2850	2981	3291	2939	2993	2525	3772	2945	3328	3067	
OCT	3315	3143	3410	2974	4237	2951	3407	2466	2619	3762	2985	3169	
NOV	3245	3494	3552	3288	2949	3945	3197	3156	3709	3299	0	3393	
DEC	2773	3425	3302	3599	3362	2979	2910	3129	2870	3428	0	3150	

Table 2.3-137 {Temperature Inversion Frequency and Persistence at SSES, Year 2001}

DURATION (HOURS)	NUMBER OF OBSERVATIONS	PERCENT PROBABILITY
1	72	17.39
2	44	28.02
3	32	35.75
4	18	40.10
5	21	45.17
6	10	47.58
7	17	51.69
8	16	55.56
9	16	59.42
10	15	63.04
11	28	69.81
12	32	77.54
13	25	83.57
14	14	86.96
15	19	91.55
16	15	95.17
17	9	97.34
18	8	99.28
19	1	99.52
20	1	99.76
21	0	99.76
22	1	100.00

THE LONGEST INVERSION LASTED 22 HOURS

OF THE LONGEST INVERSIONS
NUMBER 1 STARTED 18 HOURS INTO DAY 347

THIRD COLUMN DEFINES THE PERCENT PROBABILITY
THAT IF AN INVERSION OCCURS, ITS DURATION
WILL BE LESS THAN THE NUMBER OF HOURS SPECIFIED

Table 2.3-138 {Temperature Inversion Frequency and Persistence at SSES, Year 2002}

DURATION (HOURS)	NUMBER OF OBSERVATIONS	PERCENT PROBABILITY
1	59	15.49
2	39	25.72
3	27	32.81
4	20	38.06
5	16	42.26
6	27	49.34
7	18	54.07
8	13	57.48
9	14	61.15
10	9	63.52
11	20	68.77
12	24	75.07
13	37	84.78
14	15	88.71
15	12	91.86
16	12	95.01
17	5	96.33
18	8	98.43
19	3	99.21
20	1	99.48
21	1	99.74
22	0	99.74
23	0	99.74
24	0	99.74
25	0	99.74
26	0	99.74
27	1	100.00

THE LONGEST INVERSION LASTED 27 HOURS

OF THE LONGEST INVERSIONS
NUMBER 1 STARTED 20 HOURS INTO DAY 23

THIRD COLUMN DEFINES THE PERCENT PROBABILITY
THAT IF AN INVERSION OCCURS, ITS DURATION
WILL BE LESS THAN THE NUMBER OF HOURS SPECIFIED

Table 2.3-139 {Temperature Inversion Frequency and Persistence at SSES, Year 2003}

DURATION (HOURS)	NUMBER OF OBSERVATIONS	PERCENT PROBABILITY
1	70	18.37
2	48	30.97
3	30	38.85
4	17	43.31
5	14	46.98
6	14	50.66
7	20	55.91
8	23	61.94
9	13	65.35
10	15	69.29
11	10	71.92
12	24	78.22
13	24	84.51
14	20	89.76
15	14	93.44
16	10	96.06
17	10	98.69
18	1	98.95
19	2	99.48
20	1	99.74
21	0	99.74
22	1	100.00

THE LONGEST INVERSION LASTED 22 HOURS

OF THE LONGEST INVERSIONS
NUMBER 1 STARTED 16 HOURS INTO DAY 356

THIRD COLUMN DEFINES THE PERCENT PROBABILITY
THAT IF AN INVERSION OCCURS, ITS DURATION
WILL BE LESS THAN THE NUMBER OF HOURS SPECIFIED

Table 2.3-140 {Temperature Inversion Frequency and Persistence at SSES, Year 2004}

DURATION (HOURS)	NUMBER OF OBSERVATIONS	PERCENT PROBABILITY
1	96	22.91
2	42	32.94
3	30	40.10
4	22	45.35
5	23	50.84
6	17	54.89
7	20	59.67
8	13	62.77
9	21	67.78
10	21	72.79
11	18	77.09
12	22	82.34
13	23	87.83
14	21	92.84
15	14	96.18
16	6	97.61
17	7	99.28
18	1	99.52
19	2	100.0

THE LONGEST INVERSION LASTED 19 HOURS

OF THE LONGEST INVERSIONS
NUMBER 1 STARTED 17 HOURS INTO DAY 61
NUMBER 2 STARTED 19 HOURS INTO DAY 364

THIRD COLUMN DEFINES THE PERCENT PROBABILITY
THAT IF AN INVERSION OCCURS, ITS DURATION
WILL BE LESS THAN THE NUMBER OF HOURS SPECIFIED

Table 2.3-141 {Temperature Inversion Frequency and Persistence at SSES, Year 2005}

DURATION (HOURS)	NUMBER OF OBSERVATIONS	PERCENT PROBABILITY
1	70	17.03
2	34	25.30
3	22	30.66
4	39	40.15
5	11	42.82
6	18	47.20
7	13	50.36
8	7	52.07
9	14	55.47
10	20	60.34
11	25	66.42
12	46	77.62
13	32	85.40
14	12	88.32
15	18	92.70
16	10	95.13
17	11	97.81
18	4	98.78
19	1	99.03
20	2	99.51
21	1	99.76
22	1	100.00

THE LONGEST INVERSION LASTED 22 HOURS

OF THE LONGEST INVERSIONS
NUMBER 1 STARTED 18 HOURS INTO DAY 357

THIRD COLUMN DEFINES THE PERCENT PROBABILITY
THAT IF AN INVERSION OCCURS, ITS DURATION
WILL BE LESS THAN THE NUMBER OF HOURS SPECIFIED

Table 2.3-142 {Temperature Inversion Frequency and Persistence at SSES, Year 2006}

DURATION (HOURS)	NUMBER OF OBSERVATIONS	PERCENT PROBABILITY
1	74	18.73
2	32	26.84
3	31	34.68
4	22	40.25
5	17	44.56
6	19	49.37
7	20	54.43
8	19	59.24
9	21	64.56
10	22	70.13
11	21	75.44
12	25	81.77
13	17	86.08
14	18	90.63
15	10	93.16
16	6	94.68
17	7	96.46
18	6	97.97
19	5	99.24
20	3	100.00

THE LONGEST INVERSION LASTED 20 HOURS

OF THE LONGEST INVERSIONS
NUMBER 1 STARTED 19 HOURS INTO DAY 12
NUMBER 2 STARTED 18 HOURS INTO DAY 20
NUMBER 3 STARTED 19 HOURS INTO DAY 29

THIRD COLUMN DEFINES THE PERCENT PROBABILITY
THAT IF AN INVERSION OCCURS, ITS DURATION
WILL BE LESS THAN THE NUMBER OF HOURS SPECIFIED

Table 2.3-143 {National Ambient Air Quality Standards}

	Primary Standards		Secondary Standards	
Pollutant	**Level**	**Averaging Time**	**Level**	**Averaging Time**
Carbon Monoxide	9 ppm (10 mg/m^3)	8-hour[1]	None	
	35 ppm (40 mg/m^3)	1-hour[1]		
Lead	1.5 µg/m^3	Quarterly Average	Same as Primary	
Nitrogen Dioxide	0.053 ppm (100 µg/m^3)	Annual (Arithmetic Mean)	Same as Primary	
Particulate Matter (PM10)	150 µg/m^3	24-hour[2]	Same as Primary	
Particulate Matter (PM2.5)	15.0 µg/m^3	Annual[3] (Arithmetic Mean)	Same as Primary	
	35 µg/m^3	24-hour[4]	Same as Primary	
Ozone	0.075 ppm (2008 std)	8-hour[5]	Same as Primary	
	0.08 ppm (1997 std)	8-hour[6]	Same as Primary	
	0.12 ppm	1-hour[7] (Applies only in limited areas)	Same as Primary	
Sulfur Dioxide	0.03 ppm	Annual (Arithmetic Mean)	0.5 ppm (1300 µg/m^3)	3-hour[1]
	0.14 ppm	24-hour[1]		

(1) Not to be exceeded more than once per year.

(2) Not to be exceeded more than once per year on average over 3 years.

(3) To attain this standard, the 3-year average of the weighted annual mean PM2.5 concentrations from single or multiple community-oriented monitors must not exceed 15.0 µg/m^3.

(4) To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35 µg/m^3 (effective December 17, 2006).

(5) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.075 ppm. (effective May 27, 2008)

(6) (a) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.
(b) The 1997 standard-and the implementation rules for that standard-will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard.

(7) (a) The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is < 1.
(b) As of June 15, 2005 EPA revoked the 1-hour ozone standard in all areas except the 8-hour ozone nonattainment Early Action Compact (EAC) Areas.

Table 2.3-144 {Primary Meteorological Tower Instrument Types, Specifications and Accuracies for Pre-Operational and Operational Programs}

Characteristics	Requirements*	Specifications
	Wind Speed Sensor	
Make		Climatronics
Model		100075
Starting Threshold	< 1 mph (0.45 m/s)	0.5 mph
Range		0-50 mph
Accuracy	+/- 0.2 m/s (+/- 0.45 mph) or 5% of observed wind speed	+/- 1.0% or +/- 0.15 mph, whichever is greater
	Wind Direction Sensor	
Make		Climatronics
Model		100076
Starting Threshold	< 1 mph (0.45 m/s)	0.5 mph
Range		0-540 degrees
Accuracy	+/- 5 degrees	+/- 2 degrees
	Temperature Sensors	
Make		Climatronics
Model		100093
Range (ambient)		-20°F to +100°F
Range (vertical temperature diference)		-5°F to +5°F
Accuracy (ambient)	+/- 0.5°C (+/- 0.9°F)	+/- 0.15°C
Accuracy (vertical temperature difference)	+/- 0.1°C (+/- 0.18°F)	+/- 0.1°C
	Dew Point Sensor	
Make		Climatronics
Model		101197
Range		-40°F to +100°F
Accuracy	+/- 1.5°C (+/- 2.7°F)	+/- 0.5°C
	Precipitation Sensor	
Make		Climatronics
Model		100097-1
Accuracy	+/- 10% for a volume equivalent to 2.54 mm (0.1 in.) of precipitation at a rate of 50 mm/h (< 2 in./h)	+/- 1.0% at 3 inches per hour

* Accuracy requirements from Regulatory Guide 1.23, Revision 1, March 2007

Table 2.3-145 Distances from Met Tower to Nearby Obstructions to Air Flow

Downwind Sector*	Approximate Distance miles (meters)
N	0.5 (805)
NNE	N/A**
NE	N/A**
ENE	N/A**
E	N/A**
ESE	N/A**
SE	N/A**
SSE	N/A**
S	N/A**
SSW	0.5 (805)
SW	0.5 (805)
WSW	N/A**
W	0.35 (563)
WNW	0.36 (579)
NW	0.5 (805)
NNW	0.5 (805)

* With respect to True North
** Lower than base elevation and therefore no possible obstructions

Table 2.3-146 AEOLUS3 and ARCON96 Input

Parameter	Value(s)
Wind speed group upper limits for AEOLUS3	0.224, 0.75, 1.0, 1.5, 2.0, 3.0, 5.0, 7.0, 10.0, 13.0, 18.0, 50.0 meters/ second
AEOLUS3 wind speed assigned to calms	0.25 miles per hour
Anemometer starting speed for the AEOLUS3 runs	0.5 miles per hour
Temperature sensor separation	60m - 10m or 50 meters
Wind instrument heights	10m, 60m
The annual average mixing layer height	900 meters
Meteorological channel units of measure	Wind speed miles per hour Wind direction degrees from True North Delta-Temperature degrees Fahrenheit per sensor separation in feet
Minimum wind speed value for ARCON96	0.5 m/sec
Surface roughness for ARCON96	0.2
Sector averaging constant for ARCON96	4.3
Wind direction window for ARCON96	90 degrees
Control Room air intake location employed in analysis	Intake closest to stack.
Control Room air intake elevation	32.1 meters (Mid-point of intake)
Control Room air intake horizontal distance to stack base	69.0 meters (scaled)
Control Room air intake horizontal distance to Main Steam Relief Train, via Silencer (referred to as the Silencer release point in the present application): SG-4 Silencer to MCR Div. 3 Air Intake (AI) SG-3 Silencer to MCR Div. 3 AI SG-1 Silencer to MCR Div. 3 AI SG-2 Silencer to MCR Div. 3 AI	53.0 meters 46.0 meters 78.0 meters 71.0 meters
Control Room air intake horizontal distances to Canopy exhausts (referred to as the Canopy release point in the present application) 1) Near depressurization shaft (Safeguard Building Div. 4) 2) Southeast side of SAB Div. 4	30.1 meters (scaled) 65.3 meters (scaled)
Control Room air intake horizontal distance to Material Lock (for the Equipment Hatch release)	97.5 meters (scaled)

Table 2.3-146 AEOLUS3 and ARCON96 Input

Parameter	Value(s)
Control Room air intake horizontal distance to the depressurization shaft of Safeguard Building Div. 4 (referred to as the depressurization shaft release point in the present application)	31.4 meters (scaled)
Release heights used in ARCON96	Silencer - 33.9 meters Stack - 32.1 meters Canopy Pt. 1 - 15.5 meters Canopy Pt. 2 - 11.5 meters elevation Material Lock (for Equipment Hatch release) - 23.2 meters (release height employed in analysis = 32.1 meters, conservative) Depressurization Shaft - 7 meters

Table 2.3-147 {EAB/LPZ Accident χ/Q Values for Ground Level Release Using SSES 2001-2007 Meteorological Data}

Distance Downwind (miles)	**0-2 hour (χ/Q (sec/m^3)**	**2-8 hour (χ/Q (sec/m^3)**	**8-24 hour (χ/Q (sec/m^3)**	**1-4 days (χ/Q (sec/m^3)**	**4-30 days (χ/Q (sec/m^3)**
0.25	2.169E-03	1.477E-03	1.047E-03	6.184E-04	2.903E-04
0.379	1.092E-03	7.375E-04	5.196E-04	3.038E-04	1.405E-04
0.393 (Analytical Distance for EAB of 0.430 miles	1.029E-03	6.948E-04	4.894E-04	2.859E-04	1.321E-04
0.40	9.968E-04	6.730E-04	4.739E-04	2.768E-04	1.279E-04
0.43 (EAB)	8.831E-04	5.957E-04	4.192E-04	2.445E-04	1.128E-04
0.5	6.817E-04	4.593E-04	3.228E-04	1.880E-04	8.648E-05
0.53	6.116E-04	4.124E-04	2.900E-04	1.691E-04	7.790E-05
0.75	4.568E-04	2.950E-04	1.996E-04	1.097E-04	4.641E-05
1.0	3.672E-04	2.291E-04	1.504E-04	7.884E-05	3.120E-05
1.5 (LPZ)	2.766E-04	1.648E-04	1.038E-04	5.106E-05	1.845E-05
2.0	2.052E-04	1.201E-04	7.449E-05	3.579E-05	1.250E-05
2.5	1.682E-04	9.689E-05	5.919E-05	2.781E-05	9.398E-06
3.0	1.462E-04	8.288E-05	4.993E-05	2.295E-05	7.520E-06
4.0	1.206E-04	6.647E-05	3.907E-05	1.729E-05	5.367E-06
5.0	1.014E-04	5.494E-05	3.178E-05	1.373E-05	4.117E-06

Note that the 0-2 hour value for the EAB is bounded by the value presented in Table 2.1-1 in U.S. EPR Final Safety Analysis Report. The 1-4 days and 4-30 days values for the LPZ are bounded by the values presented in U.S. EPR Final Safety Analysis Report; however, the 0-2 hour, 2-8 hour, and 8-24 hour values are not bounded.

Table 2.3-148 {50th Percentile BBNPP Site Atmospheric Dispersion Factors}

Time Interval (hrs)	Atmospheric Disperson Factor (sec/m^3) (Nominal, 50% Meteorology)	
	EAB (Worst 2-hr)	LPZ (0 to 30 days)
Loss of Coolant Accident (LOCA)		
0 to 1.5	n/a	1.932E-05
1.5 to 3.5[(a)]	1.311E-04	2.347E-05
3.5 to 8	n/a	1.932E-05
8 to 24		1.624E-05
24 to 96		1.244E-05
96 to 720		8.485E-06
All Other Accidents		
0 to 2	1.311E-04	2.347E-05
2 to 8	n/a	1.932E-05
8 to 24		1.624E-05
24 to 96		1.244E-05
96 to 720		8.485E-06

Note:
(a) In accordance with Regulatory Guide 1.183 (Section 4.1.5), the period of most adverse release of radioactive materials to the environment was assumed to occur coincident with the period of most unfavorable atmospheric dispersion.

Table 2.3-149 : Control Room/TSC χ/Q Values for Stack Release Using SSES 2001-2007 Meteorological Data

(No credit taken for stack release height)

Stack Release	**Wind Direction = 0 (N)**	**Wind Direction = 23 (NNE)**	**Wind Direction = 45 (NE)**	**Wind Direction = 68 (ENE)**	**Wind Direction = 90 (E)**	**Wind Direction = 113 (ESE)**	**Wind Direction = 135 (SE)**	**Wind Direction = 158 (SSE)**
Time Period	χ/Q (sec/m^3)	χ/Q (sec/m^3)	χ/Q (sec/m^3)	χ/Q (sec/m^3)	χ/Q (sec/m^3)	χ/Q (sec/m^3)	χ/Q (sec/m^3)	χ/Q (sec/m^3)
0 to 2 hours	1.39E-03	**1.41E-03**	1.40E-03	1.36E-03	1.30E-03	1.19E-03	1.13E-03	1.25E-03
2 to 8 hours	1.14E-03	**1.16E-03**	1.20E-03	1.12E-03	1.00E-03	6.68E-04	5.88E-04	7.66E-04
8 to 24 hours	4.24E-04	**4.83E-04**	4.64E-04	3.82E-04	3.12E-04	2.62E-04	2.49E-04	3.08E-04
1 to 4 days	2.92E-04	**3.66E-04**	3.82E-04	3.46E-04	3.00E-04	2.17E-04	1.79E-04	2.06E-04
4 to 30 days	2.27E-04	**2.86E-04**	3.14E-04	2.81E-04	2.45E-04	1.87E-04	1.38E-04	1.62E-04
Stack Release	**Wind Direction = 180 (S)**	**Wind Direction = 203 (SSW)**	**Wind Direction = 225 (SW)**	**Wind Direction = 248 (WSW)**	**Wind Direction = 270 (W)**	**Wind Direction = 293 (WNW)**	**Wind Direction = 315 (NW)**	**Wind Direction = 338 (NNW)**
Time Period	χ/Q (sec/m^3)	χ/Q (sec/m^3)	χ/Q (sec/m^3)	χ/Q (sec/m^3)	χ/Q (sec/m^3)	χ/Q (sec/m^3)	χ/Q (sec/m^3)	χ/Q (sec/m^3)
0 to 2 hours	1.34E-03	1.39E-03	1.40E-03	1.38E-03	1.36E-03	1.34E-03	1.36E-03	1.38E-03
2 to 8 hours	9.47E-04	1.10E-03	1.13E-03	1.06E-03	1.01E-03	9.11E-04	1.04E-03	1.10E-03
8 to 24 hours	3.43E-04	4.16E-04	4.31E-04	3.87E-04	3.61E-04	3.34E-04	3.36E-04	3.53E-04
1 to 4 days	2.59E-04	3.15E-04	3.16E-04	2.89E-04	2.65E-04	2.15E-04	2.21E-04	2.43E-04
4 to 30 days	2.04E-04	2.54E-04	2.61E-04	2.31E-04	2.07E-04	1.77E-04	1.79E-04	2.00E-04

Bold entries identify maximum values in this table. NNE is the critical downwind sector.
Note that all values in this table are bounded by the values presented in Table 2.3-1 in U.S. EPR Final Safety Analysis Report.

Table 2.3-150 Control Room/TSC χ/Q Values for Silencer Release Using SSES 2001-2007 Meteorological Data

Silencer Release	**SG-4 to Div. 3 Air Intake Wind Direction = 23 (NNE)**	**SG-1 to Div. 3 Air Intake Wind Direction = 23 (NNE)**	**SG-3 to Div. 3 Air Intake Wind Direction = 23 (NNE)**	**SG-2 to Div. 3 Air Intake Wind Direction = 23 (NNE)**
Time Period	χ/Q (sec/m^3)	χ/Q (sec/m^3)	χ/Q (sec/m^3)	χ/Q (sec/m^3)
0 to 2 hours	2.28E-03	1.09E-03	2.99E-03	1.31E-03
2 to 8 hours	1.94E-03	9.42E-04	2.53E-03	1.12E-03
8 to 24 hours	7.90E-04	3.84E-04	1.03E-03	4.56E-04
1 to 4 days	6.07E-04	2.94E-04	7.93E-04	3.51E-04
4 to 30 days	4.78E-04	2.30E-04	6.26E-04	2.75E-04

The critical wind direction sector was based on the stack releases in Table 2.3-149. Note that all values in this table are bounded by the values presented in Table 2.3-1 in U.S. EPR Final Safety Analysis Report.

Table 2.3-151 Control Room/TSC χ/Q Values for Canopy Release Using SSES 2001-2007 Meteorological Data

Canopy Release	**Pt. 1 Wind Direction = 23 (NNE)**	**Pt. 2 Wind Direction = 23 (NNE)**
Time Period	χ/Q (sec/m^3)	χ/Q (sec/m^3)
0 to 2 hours	4.86E-03	1.28E-03
2 to 8 hours	3.88E-03	1.01E-03
8 to 24 hours	1.64E-03	4.35E-04
1 to 4 days	1.20E-03	3.12E-04
4 to 30 days	9.23E-04	2.45E-04

The critical wind direction sector was based on the stack releases in Table 2.3-149. Note that all values in this table are bounded by the values presented in Table 2.3-1 in U.S. EPR Final Safety Analysis Report.

Table 2.3-152 Control Room/TSC χ/Q Values for Equipment Hatch Release Using SSES 2001-2007 Meteorological Data

Equip. Hatch Release	**Wind Direction = 23 (NNE)**
Time Period	χ/Q (sec/m^3)
0 to 2 hours	7.36E-04
2 to 8 hours	6.06E-04
8 to 24 hours	2.55E-04
1 to 4 days	1.92E-04
4 to 30 days	1.52E-04
The critical wind direction sector was based on the stack releases in Table 2.3-149. Note that all values in this table are bounded by the values presented in Table 2.3-1 in U.S. EPR Final Safety Analysis Report.	

Table 2.3-153 Control Room/TSC χ/Q Values for Depressurization Shaft Release Using SSES 2001-2007 Meteorological Data

Shaft Release	**Wind Direction = 23 (NNE)**
Time Period	χ/Q (sec/m^3)
0 to 2 hours	3.46E-03
2 to 8 hours	2.72E-03
8 to 24 hours	1.15E-03
1 to 4 days	8.27E-04
4 to 30 days	6.37E-04
The critical wind direction sector was based on the stack releases in Table 2.3-149. Note that all values in this table are bounded by the values presented in Table 2.3-1 in U.S. EPR Final Safety Analysis Report.	

Table 2.3-154 AEOLUS3 Input

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Parameter	Value(s)
Wind speed group upper limits for AEOLUS3	0.224, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0, 50.0 meters/second
AEOLUS3 wind speed assigned to calms	0.25 miles per hour
Anemometer starting speed	0.5 miles per hour
The annual average mixing layer height at SSES	900 meters (Conservative, low value)
Temperature sensor separation for SSES	60m - 10m or 50 meters
Wind instrument heights for SSES	10m, 60m
SSES meteorological channel units of measure	Wind speed miles per hour Wind direction degrees from True North Delta-Temperature degrees Fahrenheit per sensor separation in feet
Order of data channels in met data	Wind speed (10m, 60m), wind direction (10m, 60m), temperature, dew point temperature, delta temperature (60m-10m), precipitation
Plant grade	650 feet
Site boundary distances, terrain heights, and recirculation correction factors (RCF's) (in meters, meters above plant grade, and dimensionless, respectively)	<u>sector</u> <u>distance</u> <u>height</u> <u>RCF's</u> N 320.0 82.3 1.05 NNE 752.6 82.3 1.37 NE 928.5 125.0 1.44 ENE 935.5 76.2 1.47 E 1020.0 9.8 1.55 ESE 633.0 9.8 1.43 SE 513.5 4.9 1.09 SSE 492.4 15.2 1.32 S 492.4 33.5 1.00 SSW 453.7 39.6 1.33 SW 386.9 39.6 1.00 WSW 334.1 21.3 1.00 W 334.1 39.6 1.01 WNW 334.1 39.6 1.19 NW 334.1 82.3 1.00 NNW 320.0 82.3 1.00
Stack flow rate for normal operations	242,458 cfm This is a conservative value; the actual flow rate for normal operations will be higher. Flow rates from the references are for the two largest contributors to the flow and total more than 242,458 cfm.

Table 2.3-154 AEOLUS3 Input

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Parameter	Value(s)
Stack inner diameter	3.8 meters Note that this is listed as the outside diameter of the stack and so the inner diameter should be somewhat smaller; a test run was made in another calculation using an inner diameter of 3.7 meters and was found to produce lower χ/Q's. Thus, using 3.8 meters as the stack inner diameter produces conservative χ/Q's.
Stack height	62 meters (2 meters above assumed Reactor Building)
Reactor Building height and cross sectional area	60 meters (used for cross sectional area for building wake - smaller height gives a lower credit for building wake; actual = 62.3 meter) 2940 m^2 (60m X 49m)
Site grade	650 feet
Maximum Terrain Heights and Recirculation Correction Factors (RCF's) 0.5 miles	Values in meters above plant grade and dimensionless, respectively. Sector / Height / RCF's N 82.3 1.05 NNE 82.3 1.37 NE 82.3 1.44 ENE 45.7 1.47 E 9.8 1.55 ESE 9.8 1.43 SE 4.9 1.09 SSE 15.2 1.32 S 33.5 1 SSW 39.6 1.33 SW 39.6 1 WSW 21.3 1 W 39.6 1.01 WNW 39.6 1.19 NW 82.3 1 NNW 82.3 1

Table 2.3-154 AEOLUS3 Input

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Parameter	Value(s)		
1.0 mile	Values in meters above plant grade and dimensionless, respectively.		
	Sector	Height	RCF's
	N	131.1	1.12
	NNE	131.1	1.32
	NE	125.0	1.31
	ENE	76.2	1.07
	E	9.8	1.21
	ESE	9.8	1.37
	SE	4.9	1
	SSE	15.2	1.32
	S	33.5	1
	SSW	39.6	1.21
	SW	39.6	1
	WSW	33.5	1
	W	137.2	1.07
	WNW	137.2	1.24
	NW	137.2	1
	NNW	118.9	1
2.0 miles	Values in meters above plant grade and dimensionless, respectively.		
	Sector	Height	RCF's
	N	143.3	1.32
	NNE	131.1	1.21
	NE	125.0	1.17
	ENE	76.2	1.06
	E	9.8	1.08
	ESE	51.8	1.17
	SE	57.9	1
	SSE	57.9	1.12
	S	33.5	1
	SSW	51.8	1.12
	SW	39.6	1
	WSW	94.5	1
	W	143.3	1
	WNW	155.4	1
	NW	155.4	1
	NNW	143.3	1

Table 2.3-154 AEOLUS3 Input

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Parameter	Value(s)		
	Values in meters above plant grade and dimensionless, respectively.		
	Sector	Height	RCF's
	N	246.9	1.2
	NNE	246.9	1.27
	NE	125.0	1.06
	ENE	137.2	1.03
	E	167.6	1.105
	ESE	167.6	1.11
3.0 miles	SE	106.7	1
	SSE	106.7	1.19
	S	94.5	1
	SSW	94.5	1.09
	SW	94.5	1
	WSW	179.8	1
	W	179.8	1
	WNW	155.4	1
	NW	259.1	1.01
	NNW	265.2	1
	Values in meters above plant grade and dimensionless, respectively.		
	Sector	Height	RCF's
	N	246.9	1.08
	NNE	246.9	1.18
	NE	222.5	1.13
	ENE	192.0	1.05
	E	192.0	1.11
	ESE	155.4	1.33
4.0 miles	SE	118.9	1
	SSE	118.9	1.02
	S	112.8	1
	SSW	94.5	1.1
	SW	94.5	1
	WSW	179.8	1
	W	179.8	1
	WNW	271.3	1
	NW	271.3	1
	NNW	265.2	1

Table 2.3-154 AEOLUS3 Input
(Page 5 of 9)

Parameter	Value(s)		
5.0 miles	Values in meters above plant grade and dimensionless, respectively.		
	Sector	Height	RCF's
	N	265.2	1
	NNE	246.9	1.08
	NE	253.0	1
	ENE	192.0	1
	E	192.0	1.01
	ESE	356.6	1.18
	SE	356.6	1
	SSE	313.9	1.06
	S	313.9	1
	SSW	167.6	1
	SW	94.5	1
	WSW	179.8	1
	W	277.4	1
	WNW	301.8	1
	NW	301.8	1
	NNW	301.8	1
10 miles	Values in meters above plant grade and dimensionless, respectively.		
	Sector	Height	RCF's
	N	265.2	1
	NNE	246.9	1
	NE	253.0	1
	ENE	241.9	1
	E	321.9	1
	ESE	356.6	1.02
	SE	356.6	1
	SSE	381.9	1
	S	381.9	1
	SSW	381.9	1
	SW	381.9	1
	WSW	261.9	1
	W	321.9	1
	WNW	321.9	1
	NW	301.8	1
	NNW	301.8	1

Table 2.3-154 AEOLUS3 Input

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Parameter	Value(s)
20 miles	Values in meters above plant grade and dimensinless, respectively. Sector Height RCF's N 541.9 1 NNE 481.9 1 NE 461.9 1 ENE 421.9 1 E 421.9 1 ESE 379.9 1 SE 356.6 1 SSE 401.9 1 S 401.9 1 SSW 381.9 1 SW 381.9 1 WSW 281.9 1 W 321.9 1 WNW 321.9 1 NW 501.9 1 NNW 541.9 1
30 miles	Values in meters above plant grade and dimensionless, respectively. Sector Height RCF's N 541.9 1 NNE 528.9 1 NE 461.9 1 ENE 461.9 1 E 421.9 1 ESE 421.9 1 SE 356.6 1 SSE 401.9 1 S 401.9 1 SSW 381.9 1 SW 381.9 1 WSW 281.9 1 W 321.9 1 WNW 381.9 1 NW 560.9 1 NNW 541.9 1

Table 2.3-154 AEOLUS3 Input

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Parameter	Value(s)
40 miles	Values in meters above plant grade and dimensionless, respectively. Sector Height RCF's N 541.9 1 NNE 528.9 1 NE 461.9 1 ENE 461.9 1 E 423.9 1 ESE 421.9 1 SE 356.6 1 SSE 401.9 1 S 401.9 1 SSW 381.9 1 SW 381.9 1 WSW 281.9 1 W 361.9 1 WNW 381.9 1 NW 560.9 1 NNW 541.9 1
50 miles	Values in meters above plant grade and dimensionless, respectively. Sector Height RCF's N 541.9 1 NNE 528.9 1 NE 481.9 1 ENE 481.9 1 E 441.9 1 ESE 441.9 1 SE 356.6 1 SSE 401.9 1 S 401.9 1 SSW 381.9 1 SW 381.9 1 WSW 361.9 1 W 401.9 1 WNW 521.9 1 NW 560.9 1 NNW 541.9 1

Table 2.3-154 AEOLUS3 Input

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Parameter	Value(s)			
	Sector	Distance	Height	RCF's
	NNE	1683	131.1	1.32
	NE	2082	125.0	1.31
	ENE	3854	137.2	1.06
	E	2118	9.8	1.21
	ESE	1931	51.8	1.37
	SE	1063	4.9	1.09
Nearest Resident locations distance, terrain heights, and recirculation correction facators (RCF's) (in meters, meters above plant grade, and dimsnsionless, respectively).	SW	456.0	39.6	1.00
	WSW	455.7	21.3	1.00
	NNW	789	82.3	1.00
	NNE	1835	131.1	1.32
	NE	2962	125.0	1.17
	ENE	4985	192	1.03
	E	2220	9.8	1.21
	NE	3155	125.0	1.17
	E	2304	9.8	1.21
	NE	3317	125.0	1.17
	Sector	Distance	Height	RCF's
	N	2858	143.3	1.32
	NNE	6203	246.9	1.18
	NE	5140	222.5	1.06
	ENE	3854	137.2	1.06
	E	2132	9.8	1.21
	SE	1833	57.9	1.00
Nearest Garden locations distance, terrain heights, and recirculation correction factors (RCF's) (in meters, meters above plant grade, and dimensionless, respectively).	SSE	1378	15.2	1.32
	SSW	1742	51.8	1.21
	WSW	445.7	21.3	1.00
	NNW	789	82.3	1.00
	N	6985	265.2	1.08
	NE	5721	222.5	1.13
	ENE	5510	192.0	1.03
	E	5455	192.0	1.05
	SE	4662	106.7	1.00
	NNW	1709	143.3	1.00

Table 2.3-154 AEOLUS3 Input

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Parameter	Value(s)			
Nearest Milk Animal locations distance, terrain heights, and recirculation correction factors (RCF’s) (in meters, meters above plant grade,and dimensionless, respectively).	Sector	Distance	Height	RCF’s
	E	8723	321.9	1.01
	ESE	7643	356.6	1.18
	S	4062	100.6	1.00
	SSW	19619	381.9	1.00
	SW	1043	39.6	1.00
	WNW	6602	301.8	1.00
	S	4601	100.6	1.00
Nearest Meat Animal locations distance, terrain heights, and recirculation correction factors (RCF’s) (in meters,meters above plant grade, and dimensionless, respectively).	Sector	Distance	Height	RCF’s
	NE	5140	222..56	1.06
	ENE	5510	192.0	
	S	4601	100.6	
	SW	1043	39.6	

Table 2.3-155 {Normal Effluent Annual Average, Undecayed, Undepleted χ/Q Values for Mixed Mode Release Using 242,458 cfm Flow Rate for Grid Receptors}

(Page 1 of 2)

SECTOR	χ/Q (sec/m^3) 0.5 mi	χ/Q (sec/m^3) 0.75 mi	χ/Q (sec/m^3) 1 mi	χ/Q (sec/m^3) 1.5 mi	χ/Q (sec/m^3) 2 mi	χ/Q (sec/m^3) 2.5 mi	χ/Q (sec/m^3) 3 mi	χ/Q (sec/m^3) 3.5 mi	χ/Q (sec/m^3) 4 mi	χ/Q (sec/m^3) 4.5 mi	χ/Q (sec/m^3) 5 mi
N	2.311E-06	1.373E-06	9.160E-07	4.843E-07	3.663E-07	2.616E-07	1.809E-07	1.438E-07	1.062E-07	8.936E-08	7.095E-08
NNE	2.805E-06	1.653E-06	9.962E-07	5.236E-07	3.076E-07	2.195E-07	1.749E-07	1.388E-07	1.057E-07	8.878E-08	6.958E-08
NE	2.752E-06	1.558E-06	8.867E-07	4.638E-07	2.639E-07	1.867E-07	1.279E-07	1.013E-07	8.826E-08	7.393E-08	5.588E-08
ENE	6.821E-07	6.747E-07	3.168E-07	1.702E-07	1.086E-07	7.954E-08	5.826E-08	4.598E-08	3.820E-08	3.191E-08	2.590E-08
E	2.545E-07	1.589E-07	9.210E-08	6.077E-08	3.964E-08	4.694E-08	3.438E-08	2.708E-08	2.331E-08	1.946E-08	1.508E-08
ESE	1.818E-07	1.151E-07	8.280E-08	8.496E-08	4.850E-08	3.948E-08	2.819E-08	2.219E-08	2.164E-08	1.805E-08	1.362E-08
SE	2.343E-07	1.440E-07	9.696E-08	1.032E-07	6.802E-08	5.324E-08	4.013E-08	3.169E-08	2.580E-08	2.157E-08	1.836E-08
SSE	3.220E-07	2.083E-07	1.561E-07	1.541E-07	8.620E-08	6.744E-08	5.407E-08	4.271E-08	2.984E-08	2.496E-08	2.210E-08
S	3.356E-07	2.462E-07	1.948E-07	1.311E-07	9.499E-08	1.021E-07	7.732E-08	6.136E-08	5.017E-08	4.212E-08	3.597E-08
SSW	6.923E-07	5.442E-07	4.099E-07	3.608E-07	2.367E-07	2.290E-07	1.698E-07	1.351E-07	1.120E-07	9.500E-08	7.397E-08
SW	6.005E-07	4.615E-07	4.023E-07	3.112E-07	2.472E-07	4.461E-07	3.430E-07	2.752E-07	2.279E-07	1.931E-07	1.667E-07
WSW	8.772E-07	5.450E-07	4.549E-07	2.205E-06	1.443E-06	1.055E-06	8.142E-07	6.559E-07	5.451E-07	4.635E-07	4.014E-07
W	2.365E-07	2.976E-06	1.963E-06	1.040E-06	6.293E-07	4.539E-07	3.480E-07	2.786E-07	2.304E-07	1.950E-07	1.681E-07
WNW	1.940E-07	1.850E-06	1.203E-06	6.395E-07	3.317E-07	2.371E-07	1.810E-07	1.446E-07	1.191E-07	1.004E-07	8.635E-08
NW	2.121E-06	1.337E-06	8.342E-07	4.420E-07	2.834E-07	2.024E-07	1.555E-07	1.237E-07	1.006E-07	8.467E-08	7.264E-08
NNW	1.753E-06	1.052E-06	6.600E-07	3.548E-07	2.279E-07	1.631E-07	1.241E-07	9.873E-08	8.111E-08	6.826E-08	5.856E-08

Table 2.3-155—{Normal Effluent Annual Average, Undecayed, Undepleted χ/Q Values for Mixed Mode Release Using 242,458 cfm Flow Rate for Grid Receptors}

(Page 2 of 2)

SECTOR	χ/Q (sec/m^3) 7.5 mi	χ/Q (sec/m^3) 10 mi	χ/Q (sec/m^3) 15 mi	χ/Q (sec/m^3) 20 mi	χ/Q (sec/m^3) 25 mi	χ/Q (sec/m^3) 30 mi	χ/Q (sec/m^3) 35 mi	χ/Q (sec/m^3) 40 mi	χ/Q (sec/m^3) 45 mi	χ/Q (sec/m^3) 50 mi
N	3.949E-08	2.621E-08	1.483E-08	9.944E-09	7.308E-09	5.690E-09	4.609E-09	3.843E-09	3.275E-09	2.840E-09
NNE	3.852E-08	2.358E-08	1.327E-08	8.861E-09	6.493E-09	5.043E-09	4.076E-09	3.392E-09	2.886E-09	2.499E-09
NE	3.065E-08	2.015E-08	1.128E-08	7.512E-09	5.494E-09	4.262E-09	3.442E-09	2.863E-09	2.435E-09	2.108E-09
ENE	1.406E-08	9.167E-09	5.065E-09	3.340E-09	2.424E-09	1.868E-09	1.500E-09	1.242E-09	1.051E-09	9.065E-10
E	8.150E-09	5.242E-09	2.874E-09	1.883E-09	1.359E-09	1.043E-09	8.338E-10	6.875E-10	5.802E-10	4.987E-10
ESE	7.342E-09	4.110E-09	2.241E-09	1.434E-09	1.031E-09	7.886E-10	6.290E-10	5.174E-10	4.358E-10	3.738E-10
SE	9.898E-09	6.413E-09	3.499E-09	2.284E-09	1.643E-09	1.257E-09	1.003E-09	8.253E-10	6.952E-10	5.965E-10
SSE	1.197E-08	7.348E-09	4.035E-09	2.647E-09	1.912E-09	1.468E-09	1.174E-09	9.689E-10	8.180E-10	7.034E-10
S	1.970E-08	1.293E-08	7.189E-09	4.762E-09	3.467E-09	2.679E-09	2.156E-09	1.787E-09	1.515E-09	1.308E-09
SSW	4.099E-08	2.713E-08	1.527E-08	1.020E-08	7.478E-09	5.810E-09	4.698E-09	3.911E-09	3.329E-09	2.883E-09
SW	9.552E-08	6.454E-08	3.745E-08	2.558E-08	1.908E-08	1.504E-08	1.232E-08	1.036E-08	8.907E-09	7.781E-09
WSW	2.326E-07	1.590E-07	9.377E-08	6.480E-08	4.878E-08	3.873E-08	3.191E-08	2.699E-08	2.330E-08	2.044E-08
W	9.585E-08	6.477E-08	3.759E-08	2.568E-08	1.916E-08	1.511E-08	1.237E-08	1.041E-08	8.946E-09	7.815E-09
WNW	4.861E-08	3.255E-08	1.865E-08	1.263E-08	9.355E-09	7.332E-09	5.973E-09	5.005E-09	4.286E-09	3.731E-09
NW	4.055E-08	2.698E-08	1.533E-08	1.031E-08	7.595E-09	5.926E-09	4.809E-09	4.016E-09	3.428E-09	2.976E-09
NNW	3.267E-08	2.173E-08	1.233E-08	8.282E-09	6.097E-09	4.753E-09	3.855E-09	3.218E-09	2.745E-09	2.382E-09

Table 2.3-156 {Normal Effluent Annual Average, Undecayed, Undepleted χ/Q Values for Mixed Mode Release Using 242,458 cfm Flow Rate for Site Boundary Receptors}

DOWNWIND SECTOR	Distance (m)	χ/Q (sec/m^3) Site Boundary
N	320.0	9.672E-06
NNE	752.6	3.110E-06
NE	928.5	2.424E-06
ENE	935.5	9.958E-07
E	1020.0	1.918E-07
ESE	633.0	2.484E-07
SE	513.5	4.317E-07
SSE	492.4	6.151E-07
S	492.4	5.722E-07
SSW	453.7	1.310E-06
SW	386.9	1.678E-06
WSW	334.1	4.074E-06
W	334.1	7.733E-07
WNW	334.1	5.524E-07
NW	334.1	7.557E-06
NNW	320.0	7.009E-06

Table 2.3-157 {Normal Effluent Annual Average, Undecayed, Undepleted χ/Q Values (sec/m^3) for Mixed Mode Release With Building Wake for Nearest Residents}

DOWNWIND SECTOR	Distance (m)	χ/Q (sec/m^3) Nearest Residents
N	-	-
NNE	1683	9.267E-07
NNE	1836	8.070E-07
NE	2082	5.864E-07
NE	2962	3.003E-07
NE	3155	2.721E-07
NE	3317	2.517E-07
ENE	3854	8.503E-08
ENE	4985	5.549E-08
E	2118	6.965E-08
E	2220	6.634E-08
E	2304	6.382E-08
ESE	1931	1.149E-07
SE	1063	1.667E-07
SSE	-	-
S	-	-
SSW	-	-
SW	456	1.273E-06
WSW	445.7	2.443E-06
W	-	-
WNW	-	-
NW	-	-
NNW	789	1.808E-06

Table 2.3-158 {Normal Effluent Annual Average, Undecayed, Undepleted χ/Q Values (sec/m^3) for Mixed Mode Release With Building Wake for Nearest Gardens}

DOWNWIND SECTOR	Distance (m)	χ/Q (sec/m^3) Nearest Gardens
N	2858	4.394E-07
N	6985	9.420E-08
NNE	6203	1.116E-07
NE	5140	1.164E-07
NE	5721	1.055E-07
ENE	3854	8.503E-08
ENE	5510	4.755E-08
E	2132	6.917E-08
E	5455	2.845E-08
SE	1833	1.526E-07
SE	4662	4.235E-08
SSE	1378	1.824E-07
SSW	1742	5.144E-07
WSW	446	2.443E-06
NNW	789	1.808E-06
NNW	1709	6.124E-07

Table 2.3-159 {Normal Effluent Annual Average, Undecayed, Undepleted χ/Q Values (sec/m^3) for Mixed Mode Release With Building Wake for Nearest Milk Animals}

DOWNWIND SECTOR	Distance (m)	χ/Q (sec/m^3) Nearest Milk Animals
E	8723	1.333E-08
ESE	7643	1.474E-08
S	4062	1.006E-07
S	4601	8.317E-08
SSW	19619	2.046E-08
SW	1043	4.976E-07
WNW	6602	1.148E-07

Table 2.3-160 {Normal Effluent Annual Average, Undecayed, Undepleted χ/Q Values (sec/m^3) for Mixed Mode Release With Building Wake for Nearest Meat Animals}

DOWNWIND SECTOR	Distance (m)	χ/Q (sec/m^3) Nearest Meat Animals
NENE	5140	1.164E-07
ENE	5510	4.755E-08
S	4601	8.317E-08
SW	1043	4.976E-07

Table 2.3-161 {Normal Effluent Annual Average, Decayed, Depleted χ/Q Values (sec/m^3) for Mixed Mode Release With Building Wake for Grid Receptors}

(Page 1 of 2)

DOWNWIND SECTOR	χ/Q (sec/m^3) 0.5 mi	χ/Q (sec/m^3) 0.75 mi	χ/Q (sec/m^3) 1 mi	χ/Q (sec/m^3) 1.5 mi	χ/Q (sec/m^3) 2 mi	χ/Q (sec/m^3) 2.5 mi	χ/Q (sec/m^3) 3 mi	χ/Q (sec/m^3) 3.5 mi	χ/Q (sec/m^3) 4 mi	χ/Q (sec/m^3) 4.5 mi	χ/Q (sec/m^3) 5 mi
N	2.282E-06	1.326E-06	8.771E-07	4.482E-07	3.341E-07	2.132E-07	1.446E-07	1.129E-07	8.211E-08	6.791E-08	5.316E-08
NNE	2.759E-06	1.584E-06	9.453E-07	4.887E-07	2.832E-07	1.785E-07	1.395E-07	1.087E-07	8.151E-08	6.743E-08	5.211E-08
NE	2.678E-06	1.476E-06	8.294E-07	4.250E-07	2.378E-07	1.659E-07	1.123E-07	7.955E-08	6.820E-08	5.605E-08	4.178E-08
ENE	6.434E-07	6.429E-07	2.986E-07	1.575E-07	9.892E-08	6.854E-08	4.946E-08	3.630E-08	2.969E-08	2.444E-08	1.956E-08
E	2.338E-07	1.444E-07	8.358E-08	5.490E-08	3.558E-08	3.888E-08	2.795E-08	2.135E-08	1.809E-08	1.488E-08	1.137E-08
ESE	1.670E-07	1.048E-07	7.531E-08	7.873E-08	4.432E-08	3.265E-08	2.289E-08	1.772E-08	1.702E-08	1.365E-08	1.016E-08
SE	2.147E-07	1.303E-07	8.756E-08	9.523E-08	6.180E-08	4.693E-08	3.490E-08	2.692E-08	2.166E-08	1.631E-08	1.368E-08
SSE	2.964E-07	1.904E-07	1.425E-07	1.426E-07	7.860E-08	5.970E-08	4.726E-08	3.646E-08	2.518E-08	1.889E-08	1.649E-08
S	3.139E-07	2.307E-07	1.827E-07	1.224E-07	8.798E-08	9.392E-08	7.047E-08	5.498E-08	4.456E-08	3.187E-08	2.684E-08
SSW	6.496E-07	5.139E-07	3.884E-07	3.443E-07	2.244E-07	2.164E-07	1.594E-07	1.260E-07	1.038E-07	7.484E-08	5.752E-08
SW	5.595E-07	4.339E-07	3.812E-07	2.961E-07	2.351E-07	4.337E-07	3.324E-07	2.660E-07	2.194E-07	1.851E-07	1.590E-07
WSW	8.026E-07	4.984E-07	4.201E-07	2.180E-06	1.422E-06	8.602E-07	6.514E-07	5.156E-07	4.216E-07	3.532E-07	3.016E-07
W	2.221E-07	2.889E-06	1.896E-06	9.826E-07	5.885E-07	3.746E-07	2.818E-07	2.219E-07	1.806E-07	1.481E-07	1.260E-07
WNW	1.833E-07	1.800E-06	1.163E-06	5.894E-07	3.013E-07	2.126E-07	1.605E-07	1.138E-07	9.219E-08	7.629E-08	6.467E-08
NW	2.107E-06	1.296E-06	8.031E-07	4.058E-07	2.562E-07	1.654E-07	1.247E-07	9.724E-08	7.784E-08	6.428E-08	5.438E-08
NNW	1.737E-06	1.032E-06	6.447E-07	3.314E-07	2.101E-07	1.330E-07	9.931E-08	7.761E-08	6.274E-08	5.179E-08	4.381E-08

Table 2.3-161—{Normal Effluent Annual Average, Decayed, Depleted χ/Q Values for Mixed Mode Release Using 242,458 cfm Flow Rate for Grid Receptors}

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DOWNWIND SECTOR	χ/Q (sec/m^3) 7.5 mi	χ/Q (sec/m^3) 10 mi	χ/Q (sec/m^3) 15 mi	χ/Q (sec/m^3) 20 mi	χ/Q (sec/m^3) 25 mi	χ/Q (sec/m^3) 30 mi	χ/Q (sec/m^3) 35 mi	χ/Q (sec/m^3) 40 mi	χ/Q (sec/m^3) 45 mi	χ/Q (sec/m^3) 50 mi
N	2.799E-08	1.772E-08	9.227E-09	5.809E-09	4.046E-09	3.002E-09	2.328E-09	1.865E-09	1.530E-09	1.281E-09
NNE	2.729E-08	1.593E-08	8.253E-09	5.176E-09	3.594E-09	2.661E-09	2.059E-09	1.646E-09	1.348E-09	1.127E-09
NE	2.167E-08	1.359E-08	7.016E-09	4.388E-09	3.041E-09	2.248E-09	1.738E-09	1.389E-09	1.138E-09	9.504E-10
ENE	9.944E-09	6.182E-09	3.150E-09	1.951E-09	1.342E-09	9.855E-10	7.576E-10	6.023E-10	4.911E-10	4.086E-10
E	5.747E-09	3.523E-09	1.787E-09	1.100E-09	7.521E-10	5.499E-10	4.210E-10	3.335E-10	2.710E-10	2.248E-10
ESE	5.176E-09	2.762E-09	1.394E-09	8.374E-10	5.707E-10	4.160E-10	3.177E-10	2.510E-10	2.035E-10	1.685E-10
SE	6.978E-09	4.309E-09	2.176E-09	1.334E-09	9.096E-10	6.633E-10	5.066E-10	4.004E-10	3.248E-10	2.689E-10
SSE	8.442E-09	4.937E-09	2.509E-09	1.546E-09	1.058E-09	7.742E-10	5.931E-10	4.699E-10	3.821E-10	3.170E-10
S	1.389E-08	8.684E-09	4.471E-09	2.782E-09	1.919E-09	1.413E-09	1.089E-09	8.668E-10	7.079E-10	5.897E-10
SSW	2.890E-08	1.822E-08	9.496E-09	5.959E-09	4.139E-09	3.065E-09	2.373E-09	1.897E-09	1.555E-09	1.300E-09
SW	6.734E-08	4.336E-08	2.329E-08	1.494E-08	1.056E-08	7.936E-09	6.220E-09	5.027E-09	4.160E-09	3.507E-09
WSW	1.643E-07	1.070E-07	5.840E-08	3.790E-08	2.704E-08	2.046E-08	1.614E-08	1.311E-08	1.088E-08	9.213E-09
W	6.772E-08	4.362E-08	2.344E-08	1.504E-08	1.064E-08	7.995E-09	6.248E-09	5.050E-09	4.180E-09	3.524E-09
WNW	3.438E-08	2.195E-08	1.165E-08	7.409E-09	5.179E-09	3.869E-09	3.018E-09	2.429E-09	2.003E-09	1.683E-09
NW	2.872E-08	1.822E-08	9.538E-09	6.023E-09	4.206E-09	3.128E-09	2.430E-09	1.949E-09	1.602E-09	1.342E-09
NNW	2.312E-08	1.466E-08	7.672E-09	4.840E-09	3.376E-09	2.509E-09	1.948E-09	1.561E-09	1.283E-09	1.074E-09

Table 2.3-162 {Normal Effluent Annual Average, Decayed, Depleted χ/Q Values for Mixed Mode Release Using 242,458 cfm Flow Rate for Site Boundary Receptors}

DOWNWIND SECTOR	Distance (m)	χ/Q (sec/m^3) Site Boundary
N	320.0	9.607E-06
NNE	752.6	3.063E-06
NE	928.5	2.320E-06
ENE	935.5	9.569E-07
E	1020.0	1.747E-07
ESE	633.0	2.306E-07
SE	513.5	4.044E-07
SSE	492.4	5.778E-07
S	492.4	5.396E-07
SSW	453.7	1.239E-06
SW	386.9	1.593E-06
WSW	334.1	3.885E-06
W	334.1	7.386E-07
WNW	334.1	5.280E-07
NW	334.1	7.528E-06
NNW	320.0	6.973E-06

Table 2.3-163 {Normal Effluent Annual Average, Decayed, Depleted χ/Q Values (sec/ m^3) for Mixed Mode Release With Building Wake for Nearest Residents}

DOWNWIND SECTOR	Distance (m)	χ/Q (sec/m^3) Nearest Residents
N	-	-
NNE	1683	8.779E-07
NNE	1836	7.620E-07
NE	2082	5.416E-07
NE	2962	2.720E-07
NE	3155	2.456E-07
NE	3317	2.265E-07
ENE	3854	7.353E-08
ENE	4985	4.442E-08
E	2118	6.304E-08
E	2220	6.001E-08
E	2304	5.770E-08
ESE	1931	1.075E-07
SE	1063	1.512E-07
SSE	-	-
S	-	-
SSW	-	-
SW	456	1.201E-06
WSW	445.7	2.303E-06
W	-	-
WNW	-	-
NW	-	-
NNW	789	1.792E-06

Table 2.3-164 {Normal Effluent Annual Average, Decayed, Depleted χ/Q Values (sec/m^3) for Mixed Mode Release With Building Wake for Nearest Gardens}

DOWNWIND SECTOR	Distance (m)	χ/Q (sec/m^3) Nearest Gardens
N	2858	4.033E-07
N	6985	7.193E-08
NNE	6203	8.649E-08
NE	5140	9.239E-08
NE	5721	8.266E-08
ENE	3854	7.353E-08
ENE	5510	3.764E-08
E	2132	6.261E-08
E	5455	2.251E-08
SE	1833	1.426E-07
SE	4662	3.693E-08
SSE	1378	1.667E-07
SSW	1742	4.933E-07
WSW	446	2.303E-06
NNW	789	1.792E-06
NNW	1709	5.797E-07

Table 2.3-165 {Normal Effluent Annual Average, Decayed, Depleted χ/Q Values (sec/m^3) for Mixed Mode Release With Building Wake for Nearest Milk Animals}

DOWNWIND SECTOR	Distance (m)	χ/Q (sec/m^3) Nearest Milk Animals
E	8723	9.825E-09
ESE	7643	1.106E-08
S	4062	9.249E-08
S	4601	7.599E-08
SSW	19619	1.326E-08
SW	1043	4.654E-07
WNW	6602	8.821E-08

Table 2.3-166 {Normal Effluent Annual Average, Decayed, Depleted χ/Q Values (sec/m^3) for Mixed Mode Release With Building Wake for Nearest Meat Animals}

DOWNWIND SECTOR	Distance (m)	χ/Q (sec/m^3) Nearest Meat Animals
NE	5140	9.239E-08
ENE	5510	3.764E-08
S	4601	7.599E-08
SW	1043	4.654E-07

Table 2.3-167 {Normal Effluent Annual Average, Undecayed, Undepleted Gamma X/Q Values for Mixed Mode Release Using 242,458 cfm Flow Rate for Grid Receptors}

(Page 1 of 2)

DOWNWIND SECTOR	χ/Q (sec/m^3) 0.5 mi	χ/Q (sec/m^3) 0.75 mi	χ/Q (sec/m^3) 1 mi	χ/Q (sec/m^3) 1.5 mi	χ/Q (sec/m^3) 2 mi	χ/Q (sec/m^3) 2.5 mi	χ/Q (sec/m^3) 3 mi	χ/Q (sec/m^3) 3.5 mi	χ/Q (sec/m^3) 4 mi	χ/Q (sec/m^3) 4.5 mi	χ/Q (sec/m^3) 5 mi
N	8.576E-07	5.635E-07	4.193E-07	2.520E-07	2.061E-07	1.552E-07	1.117E-07	9.160E-08	6.943E-08	5.964E-08	4.820E-08
NNE	1.110E-06	7.166E-07	4.800E-07	2.862E-07	1.813E-07	1.362E-07	1.129E-07	9.238E-08	7.216E-08	6.187E-08	4.935E-08
NE	1.196E-06	7.430E-07	4.658E-07	2.739E-07	1.673E-07	1.243E-07	8.831E-08	7.195E-08	6.418E-08	5.481E-08	4.211E-08
ENE	4.711E-07	3.504E-07	1.777E-07	1.055E-07	7.174E-08	5.436E-08	4.132E-08	3.356E-08	2.855E-08	2.431E-08	2.006E-08
E	2.084E-07	1.359E-07	7.835E-08	5.048E-08	3.260E-08	3.190E-08	2.427E-08	1.970E-08	1.737E-08	1.479E-08	1.165E-08
ESE	1.503E-07	9.851E-08	6.992E-08	5.671E-08	3.379E-08	2.710E-08	2.011E-08	1.631E-08	1.630E-08	1.387E-08	1.065E-08
SE	1.813E-07	1.181E-07	7.999E-08	6.699E-08	4.649E-08	3.639E-08	2.848E-08	2.315E-08	1.930E-08	1.645E-08	1.424E-08
SSE	2.601E-07	1.700E-07	1.253E-07	9.889E-08	5.823E-08	4.550E-08	3.787E-08	3.080E-08	2.204E-08	1.879E-08	1.692E-08
S	3.208E-07	2.122E-07	1.571E-07	1.007E-07	7.241E-08	6.590E-08	5.183E-08	4.234E-08	3.546E-08	3.036E-08	2.637E-08
SSW	7.549E-07	5.046E-07	3.431E-07	2.450E-07	1.624E-07	1.393E-07	1.073E-07	8.796E-08	7.470E-08	6.457E-08	5.116E-08
SW	8.520E-07	5.732E-07	4.333E-07	2.883E-07	2.138E-07	2.231E-07	1.784E-07	1.477E-07	1.254E-07	1.085E-07	9.529E-08
WSW	1.220E-06	9.489E-07	7.204E-07	8.291E-07	5.900E-07	4.568E-07	3.680E-07	3.066E-07	2.618E-07	2.277E-07	2.011E-07
W	7.292E-07	9.716E-07	7.243E-07	4.418E-07	2.904E-07	2.216E-07	1.772E-07	1.467E-07	1.245E-07	1.078E-07	9.473E-08
WNW	5.129E-07	6.753E-07	4.931E-07	2.996E-07	1.685E-07	1.273E-07	1.013E-07	8.349E-08	7.055E-08	6.080E-08	5.323E-08
NW	7.649E-07	5.233E-07	3.656E-07	2.207E-07	1.533E-07	1.155E-07	9.244E-08	7.588E-08	6.331E-08	5.442E-08	4.753E-08
NNW	6.347E-07	4.215E-07	2.952E-07	1.797E-07	1.249E-07	9.430E-08	7.472E-08	6.133E-08	5.168E-08	4.442E-08	3.880E-08

Table 2.3-168 {Normal Effluent Annual Average, Undecayed, Undepleted Gamma χ/Q Values for Mixed Mode Release Using 242,458 cfm Flow Rate for Grid Receptors}

DOWNWIND SECTOR	χ/Q (sec/m^3) 7.5 mi	χ/Q (sec/m^3) 10 mi	χ/Q (sec/m^3) 15 mi	χ/Q (sec/m^3) 20 mi	χ/Q (sec/m^3) 25 mi	χ/Q (sec/m^3) 30 mi	χ/Q (sec/m^3) 35 mi	χ/Q (sec/m^3) 40 mi	χ/Q (sec/m^3) 45 mi	χ/Q (sec/m^3) 50 mi
N	2.850E-08	1.962E-08	1.160E-08	7.976E-09	5.966E-09	4.706E-09	3.850E-09	3.236E-09	2.777E-09	2.422E-09
NNE	2.900E-08	1.840E-08	1.080E-08	7.393E-09	5.509E-09	4.332E-09	3.535E-09	2.965E-09	2.539E-09	2.210E-09
NE	2.440E-08	1.658E-08	9.641E-09	6.564E-09	4.871E-09	3.819E-09	3.109E-09	2.603E-09	2.225E-09	1.935E-09
ENE	1.150E-08	7.744E-09	4.440E-09	2.990E-09	2.200E-09	1.712E-09	1.385E-09	1.153E-09	9.807E-10	8.488E-10
E	6.663E-09	4.427E-09	2.519E-09	1.685E-09	1.233E-09	9.552E-10	7.696E-10	6.382E-10	5.411E-10	4.669E-10
ESE	6.070E-09	3.510E-09	1.986E-09	1.297E-09	9.453E-10	7.297E-10	5.862E-10	4.849E-10	4.101E-10	3.531E-10
SE	8.116E-09	5.429E-09	3.071E-09	2.045E-09	1.490E-09	1.150E-09	9.241E-10	7.644E-10	6.465E-10	5.566E-10
SSE	9.690E-09	6.141E-09	3.498E-09	2.343E-09	1.715E-09	1.329E-09	1.071E-09	8.889E-10	7.539E-10	6.507E-10
S	1.529E-08	1.037E-08	6.001E-09	4.066E-09	3.005E-09	2.347E-09	1.904E-09	1.589E-09	1.355E-09	1.175E-09
SSW	3.007E-08	2.060E-08	1.209E-08	8.272E-09	6.164E-09	4.847E-09	3.955E-09	3.317E-09	2.841E-09	2.473E-09
SW	5.805E-08	4.068E-08	2.467E-08	1.731E-08	1.316E-08	1.052E-08	8.704E-09	7.391E-09	6.399E-09	5.626E-09
WSW	1.246E-07	8.880E-08	5.514E-08	3.935E-08	3.030E-08	2.448E-08	2.045E-08	1.750E-08	1.525E-08	1.349E-08
W	5.762E-08	4.051E-08	2.467E-08	1.736E-08	1.322E-08	1.059E-08	8.774E-09	7.458E-09	6.464E-09	5.687E-09
WNW	3.187E-08	2.215E-08	1.326E-08	9.221E-09	6.959E-09	5.529E-09	4.552E-09	3.847E-09	3.319E-09	2.907E-09
NW	2.818E-08	1.944E-08	1.153E-08	7.945E-09	5.955E-09	4.705E-09	3.856E-09	3.245E-09	2.788E-09	2.434E-09
NNW	2.300E-08	1.585E-08	9.394E-09	6.471E-09	4.847E-09	3.827E-09	3.135E-09	2.637E-09	2.265E-09	1.977E-09

Table 2.3-169 {Normal Effluent Annual Average, Undecayed, Undepleted Gamma χ/Q Values for Mixed Mode Release Using 242,458 cfm Flow Rate for Site Boundary Receptors}

DOWNWIND SECTOR	Distance (m)	χ/Q (sec/m^3) Site Boundary
N	320.0	2.447E-06
NNE	752.6	1.203E-06
NE	928.5	1.046E-06
ENE	935.5	4.820E-07
E	1020.0	1.624E-07
ESE	633.0	1.934E-07
SE	513.5	2.906E-07
SSE	492.4	4.346E-07
S	492.4	5.287E-07
SSW	453.7	1.337E-06
SW	386.9	1.734E-06
WSW	334.1	2.364E-06
W	334.1	1.449E-06
WNW	334.1	1.005E-06
NW	334.1	2.018E-06
NNW	320.0	1.777E-06

Table 2.3-170 {Normal Effluent Annual Average, Undecayed, Undepleted Gamma χ/Q Values (sec/m^3) for Mixed Mode Release With Building Wake for Nearest Residents}

DOWNWIND SECTOR	Distance (m)	χ/Q (sec/m^3) Nearest Residents
N	-	-
NNE	1683	4.534E-07
NNE	1836	4.062E-07
NE	2082	3.327E-07
NE	2962	1.867E-07
NE	3155	1.717E-07
NE	3317	1.607E-07
ENE	3854	5.759E-08
ENE	4985	3.958E-08
E	2118	5.828E-08
E	2220	5.536E-08
E	2304	5.315E-08
ESE	1931	7.449E-08
SE	1063	1.352E-07
SSE	-	-
S	-	-
SSW	-	-
SW	456	1.495E-06
WSW	445.7	2.161E-06
W	-	-
WNW	-	-
NW	-	-
NNW	789	6.497E-07

Table 2.3-171 {Normal Effluent Annual Average, Undecayed, Undepleted Gamma χ/Q Values (sec/m^3) for Mixed Mode Release With Building Wake for Nearest Gardens}

DOWNWIND SECTOR	Distance (m)	χ/Q (sec/m^3) Nearest Gardens
N	2858	2.397E-07
N	6985	6.248E-08
NNE	6203	7.570E-08
NE	5140	8.130E-08
NE	5721	7.511E-08
ENE	3854	5.759E-08
ENE	5510	3.457E-08
E	2132	5.787E-08
E	5455	2.057E-08
SE	1833	9.430E-08
SE	4662	2.985E-08
SSE	1378	1.479E-07
SSW	1742	3.535E-07
WSW	446	2.161E-06
NNW	789	6.497E-07
NNW	1709	2.777E-07

Table 2.3-172 {Normal Effluent Annual Average, Undecayed, Undepleted Gamma χ/Q Values (sec/m^3) for Mixed Mode Release With Building Wake for Nearest Milk Animals}

DOWNWIND SECTOR	Distance (m)	χ/Q (sec/m^3) Nearest Milk Animals
E	8723	1.043E-08
ESE	7643	1.142E-08
S	4062	6.507E-08
S	4601	5.522E-08
SSW	19619	1.587E-08
SW	1043	6.614E-07
WNW	6602	6.832E-08

Table 2.3-173 {Normal Effluent Annual Average, Undecayed, Undepleted Gamma χ/Q Values (sec/m^3) for Mixed Mode Release With Building Wake for Nearest Meat Animals}

DOWNWIND SECTOR	Distance (m)	χ/Q (sec/m^3) Nearest Meat Animals
NE	5140	8.130E-08
ENE	5510	3.457E-08
S	4601	5.522E-08
SW	1043	6.614E-07

Table 2.3-174 {Normal Effluent Annual Average D/Q Values for Mixed Mode Release Using 242,458 cfm Flow Rate for Grid Receptors}

(Page 1 of 2)

DOWNWIND SECTOR	D/Q ($1/m^2$) 0.5 mi	D/Q ($1/m^2$) 0.75 mi	D/Q ($1/m^2$) 1 mi	D/Q ($1/m^2$) 1.5 mi	D/Q ($1/m^2$) 2 mi	D/Q ($1/m^2$) 2.5 mi	D/Q ($1/m^2$) 3 mi	D/Q ($1/m^2$) 3.5 mi	D/Q ($1/m^2$) 4 mi	D/Q ($1/m^2$) 4.5 mi	D/Q ($1/m^2$) 5 mi
N	3.479E-09	2.977E-09	2.103E-09	2.194E-09	2.119E-09	1.043E-09	6.879E-10	5.233E-10	3.712E-10	3.009E-10	2.305E-10
NNE	6.314E-09	5.278E-09	3.337E-09	2.060E-09	1.449E-09	1.110E-09	8.454E-10	6.436E-10	4.716E-10	3.817E-10	2.890E-10
NE	1.614E-08	1.131E-08	6.329E-09	3.329E-09	1.934E-09	1.411E-09	9.995E-10	7.705E-10	6.480E-10	5.262E-10	3.853E-10
ENE	8.397E-09	5.493E-09	2.581E-09	1.372E-09	8.469E-10	7.962E-10	5.929E-10	3.900E-10	3.133E-10	2.535E-10	1.997E-10
E	3.576E-09	2.113E-09	1.155E-09	6.612E-10	3.878E-10	3.970E-10	2.803E-10	2.057E-10	1.713E-10	1.386E-10	1.043E-10
ESE	2.417E-09	1.463E-09	1.001E-09	6.720E-10	3.667E-10	3.330E-10	2.292E-10	1.743E-10	1.644E-10	1.311E-10	9.623E-11
SE	3.180E-09	1.897E-09	1.233E-09	8.441E-10	5.334E-10	3.954E-10	2.874E-10	2.407E-10	1.944E-10	1.622E-10	1.342E-10
SSE	4.162E-09	2.518E-09	1.785E-09	1.184E-09	6.355E-10	4.762E-10	3.699E-10	3.224E-10	2.255E-10	1.824E-10	1.569E-10
S	3.183E-09	2.004E-09	1.445E-09	8.503E-10	5.606E-10	4.479E-10	3.282E-10	2.863E-10	2.369E-10	2.302E-10	1.904E-10
SSW	4.607E-09	2.899E-09	1.921E-09	1.196E-09	7.308E-10	5.615E-10	4.038E-10	3.120E-10	2.520E-10	4.347E-10	3.272E-10
SW	2.626E-09	1.658E-09	1.220E-09	7.325E-10	4.952E-10	3.976E-10	2.960E-10	2.300E-10	1.850E-10	1.532E-10	1.305E-10
WSW	2.021E-09	1.213E-09	8.551E-10	5.673E-10	3.671E-10	1.882E-09	1.367E-09	1.040E-09	8.204E-10	6.642E-10	5.497E-10
W	9.547E-10	1.356E-09	1.170E-09	1.769E-09	1.638E-09	9.141E-10	6.666E-10	5.088E-10	4.018E-10	3.041E-10	2.516E-10
WNW	1.089E-09	1.579E-09	1.197E-09	2.279E-09	1.500E-09	1.233E-09	1.019E-09	3.088E-10	2.432E-10	1.979E-10	1.637E-10
NW	2.028E-09	2.059E-09	1.410E-09	1.922E-09	1.493E-09	6.133E-10	4.492E-10	3.423E-10	2.671E-10	2.170E-10	1.795E-10
NNW	1.971E-09	1.612E-09	1.057E-09	1.236E-09	1.036E-09	5.504E-10	3.991E-10	3.035E-10	2.392E-10	1.944E-10	1.608E-10

Table 2.3-174—{Normal Effluent Annual Average D/Q Values for Mixed Mode Release Using 242,458 cfm Flow Rate for Grid Receptors}

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DOWNWIND SECTOR	D/Q ($1/m^2$) 7.5 mi	D/Q ($1/m^2$) 10 mi	D/Q ($1/m^2$) 15 mi	D/Q ($1/m^2$) 20 mi	D/Q ($1/m^2$) 25 mi	D/Q ($1/m^2$) 30 mi	D/Q ($1/m^2$) 35 mi	D/Q ($1/m^2$) 40 mi	D/Q ($1/m^2$) 45 mi	D/Q ($1/m^2$) 50 mi
N	1.129E-10	7.077E-11	3.599E-11	2.178E-11	1.460E-11	1.046E-11	7.858E-12	6.110E-12	4.880E-12	3.984E-12
NNE	1.416E-10	8.222E-11	4.171E-11	2.524E-11	1.692E-11	1.213E-11	9.106E-12	7.081E-12	5.656E-12	4.617E-12
NE	1.888E-10	1.184E-10	5.995E-11	3.628E-11	2.433E-11	1.743E-11	1.309E-11	1.018E-11	8.130E-12	6.636E-12
ENE	9.875E-11	6.195E-11	3.135E-11	1.898E-11	1.272E-11	9.117E-12	6.846E-12	5.323E-12	4.252E-12	3.471E-12
E	5.162E-11	3.207E-11	1.621E-11	9.812E-12	6.579E-12	4.714E-12	3.540E-12	2.752E-12	2.199E-12	1.795E-12
ESE	4.715E-11	2.558E-11	1.293E-11	7.671E-12	5.144E-12	3.686E-12	2.768E-12	2.152E-12	1.719E-12	1.403E-12
SE	6.575E-11	4.126E-11	2.085E-11	1.262E-11	8.463E-12	6.064E-12	4.554E-12	3.541E-12	2.828E-12	2.308E-12
SSE	7.688E-11	4.551E-11	2.300E-11	1.392E-11	9.335E-12	6.689E-12	5.023E-12	3.905E-12	3.120E-12	2.546E-12
S	9.335E-11	5.858E-11	2.961E-11	1.792E-11	1.202E-11	8.610E-12	6.465E-12	5.027E-12	4.016E-12	3.278E-12
SSW	1.368E-10	8.583E-11	4.338E-11	2.626E-11	1.761E-11	1.262E-11	9.473E-12	7.366E-12	5.884E-12	4.803E-12
SW	1.706E-10	1.070E-10	5.410E-11	3.275E-11	2.196E-11	1.573E-11	1.181E-11	9.185E-12	7.337E-12	5.989E-12
WSW	2.621E-10	1.643E-10	8.317E-11	5.034E-11	3.375E-11	2.419E-11	1.817E-11	1.413E-11	1.132E-11	9.237E-12
W	1.236E-10	7.751E-11	3.915E-11	2.369E-11	1.589E-11	1.139E-11	8.600E-12	6.686E-12	5.341E-12	4.360E-12
WNW	8.026E-11	5.031E-11	2.542E-11	1.538E-11	1.039E-11	7.444E-12	5.590E-12	4.346E-12	3.472E-12	2.834E-12
NW	8.792E-11	5.512E-11	2.802E-11	1.696E-11	1.137E-11	8.148E-12	6.118E-12	4.757E-12	3.800E-12	3.102E-12
NNW	7.876E-11	4.939E-11	2.507E-11	1.517E-11	1.017E-11	7.291E-12	5.474E-12	4.257E-12	3.400E-12	2.775E-12

Table 2.3-175 {Normal Effluent Annual Average D/Q Values ($1/m^2$) for Mixed Mode Release Using 242,458 cfm Flow Rate for Site Boundary Receptors}

DOWNWIND SECTOR	Distance (m)	D/Q ($1/m^2$) Site Boundary
N	320.0	9.453E-09
NNE	752.6	6.833E-09
NE	928.5	1.721E-08
ENE	935.5	7.941E-09
E	1020.0	2.629E-09
ESE	633.0	3.319E-09
SE	513.5	5.910E-09
SSE	492.4	7.964E-09
S	492.4	5.654E-09
SSW	453.7	9.023E-09
SW	386.9	6.317E-09
WSW	334.1	6.651E-09
W	334.1	2.360E-09
WNW	334.1	2.663E-09
NW	334.1	4.704E-09
NNW	320.0	5.090E-09

Table 2.3-176 {Normal Effluent Annual Average D/Q Values ($1/m^2$) for Mixed Mode Release With Building Wake for Nearest Residents}

DOWNWIND SECTOR	Distance (m)	D/Q ($1/m^2$) Nearest Residents
N	-	-
NNE	1683	3.145E-09
NNE	1836	2.816E-09
NE	2082	4.188E-09
NE	2962	2.183E-09
NE	3155	1.990E-09
NE	3317	1.851E-09
ENE	3854	8.475E-10
ENE	4985	4.842E-10
E	2118	7.953E-10
E	2220	7.447E-10
E	2304	7.066E-10
ESE	1931	9.289E-10
SE	1063	2.225E-09
SSE	-	-
S	-	-
SSW	-	-
SW	456	5.178E-09
WSW	445.7	4.540E-09
W	-	-
WNW	-	-
NW	-	-
NNW	789	2.014E-09

Table 2.3-177 {Normal Effluent Annual Average D/Q Values ($1/m^2$) for Mixed Mode Release With Building Wake for Nearest Gardens}

DOWNWIND SECTOR	Distance (m)	D/Q ($1/m^2$) Nearest Gardens
N	2858	2.303E-09
N	6985	3.210E-10
NNE	6203	5.037E-10
NE	5140	9.056E-10
NE	5721	7.989E-10
ENE	3854	8.475E-10
ENE	5510	4.054E-10
E	2132	7.880E-10
E	5455	2.178E-10
SE	1833	1.269E-09
SE	4662	3.055E-10
SSE	1378	2.156E-09
SSW	1742	1.840E-09
WSW	446	4.540E-09
NNW	789	2.014E-09
NNW	1709	1.578E-09

Table 2.3-178 {Normal Effluent Annual Average D/Q Values ($1/m^2$) for Mixed Mode Release With Building Wake for Nearest Milk Animals}

DOWNWIND SECTOR	Distance (m)	D/Q ($1/m^2$) Nearest Milk Animals
E	8723	9.102E-11
ESE	7643	1.055E-10
S	4062	4.406E-10
S	4601	3.562E-10
SSW	19619	6.171E-11
SW	1043	1.954E-09
WNW	6602	2.336E-10

Table 2.3-179 {Normal Effluent Annual Average, D/Q Values ($1/m^2$) for Mixed Mode Release With Building Wake for Nearest Meat Animals}

DOWNWIND SECTOR	Distance (m)	D/Q ($1/m^2$) Nearest Meat Animals
NE	5140	9.056E-10
ENE	5510	4.054E-10
S	4601	3.562E-10
SW	1043	1.954E-09

Figure 2.3-1 {Annual Average Number of Tornadoes, 1950-1995}

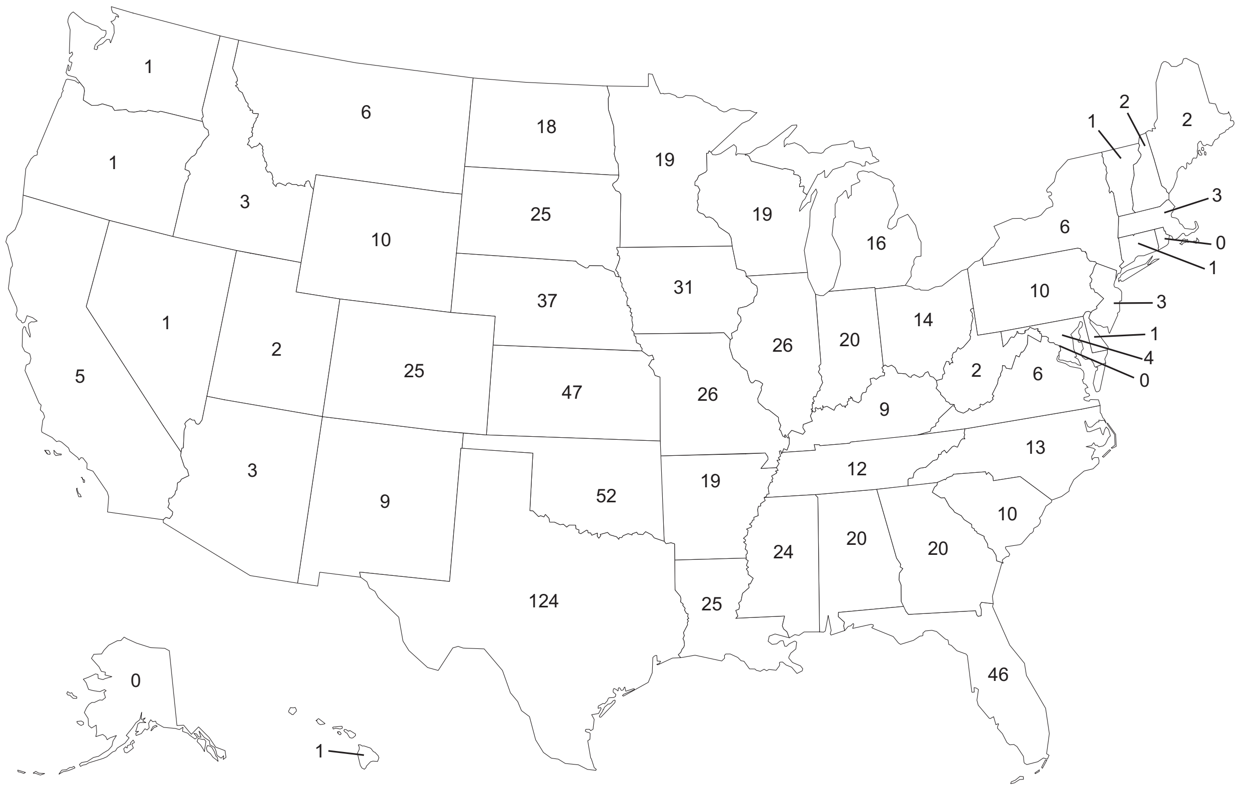


Figure 2.3-2 {Annual Average Number of Strong-Violent (F2-F5) Tornadoes, 1950-1995}

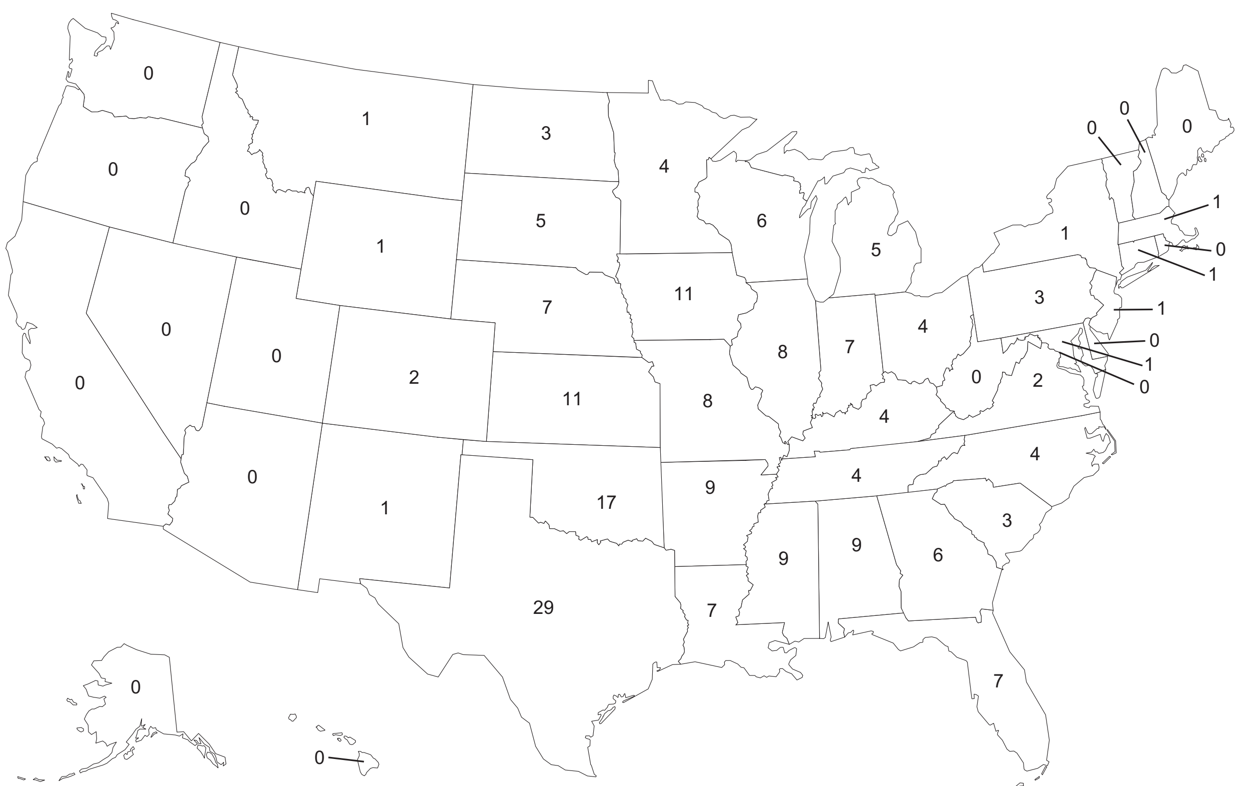


Figure 2.3-3 {Annual Thunderstorm Frequency}

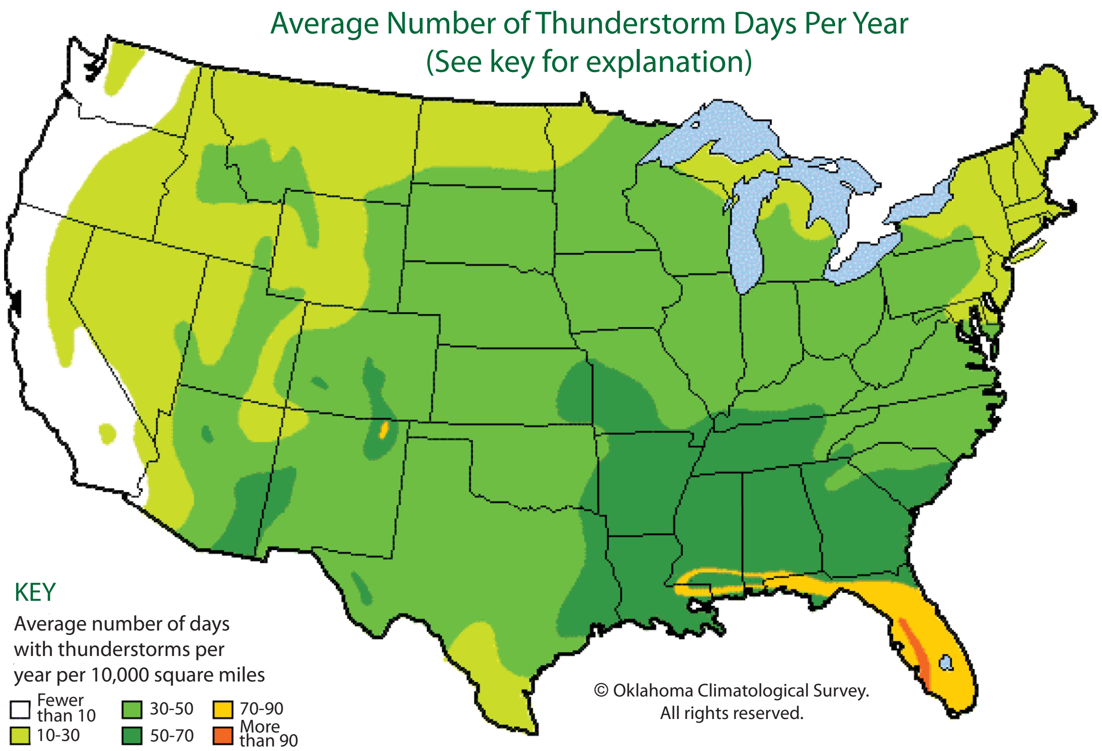


Figure 2.3-4 {Five-Year Lightning Flash Density Map}

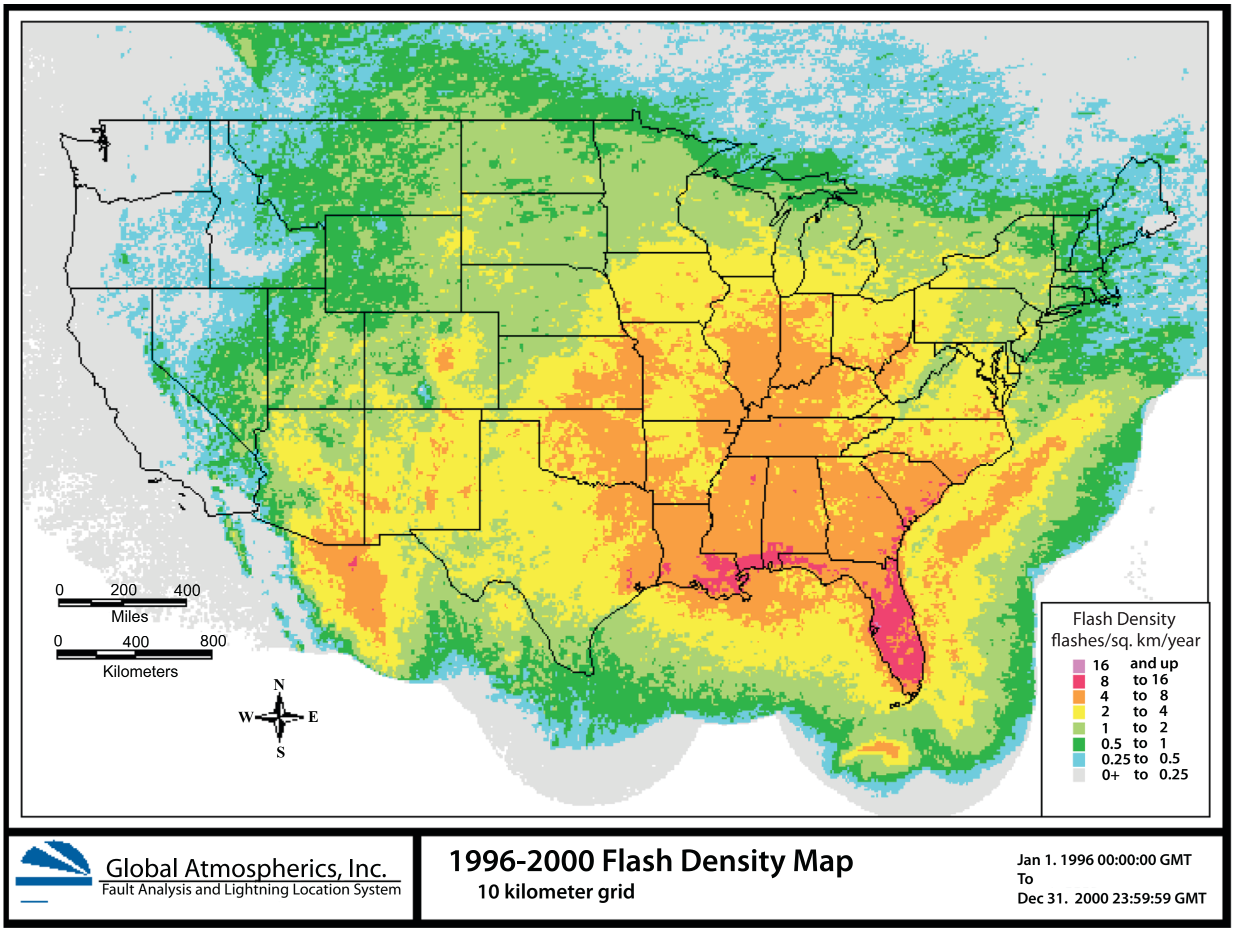


Figure 2.3-5 {Plotted PMWP Values for BBNPP}

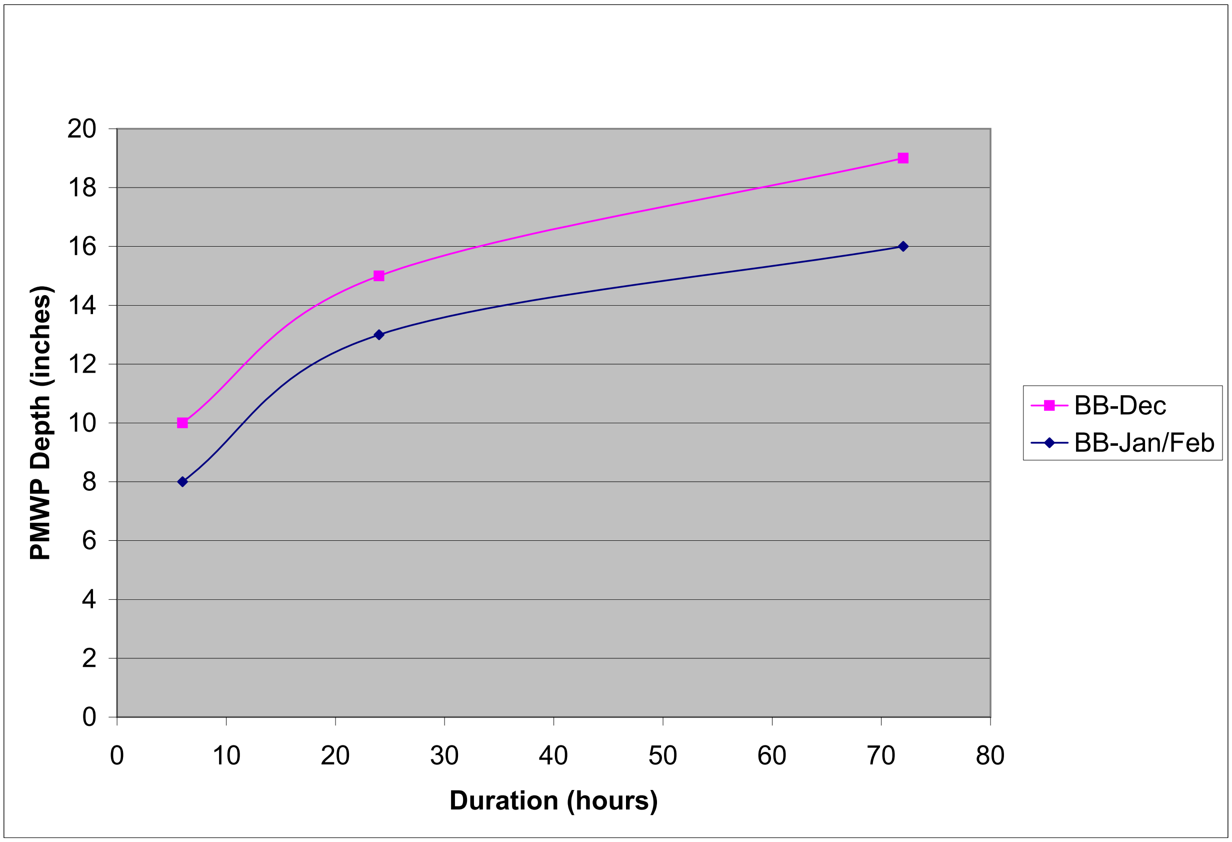


Figure 2.3-6 {BBNPP 33’ (10-m) Annual Wind Rose}

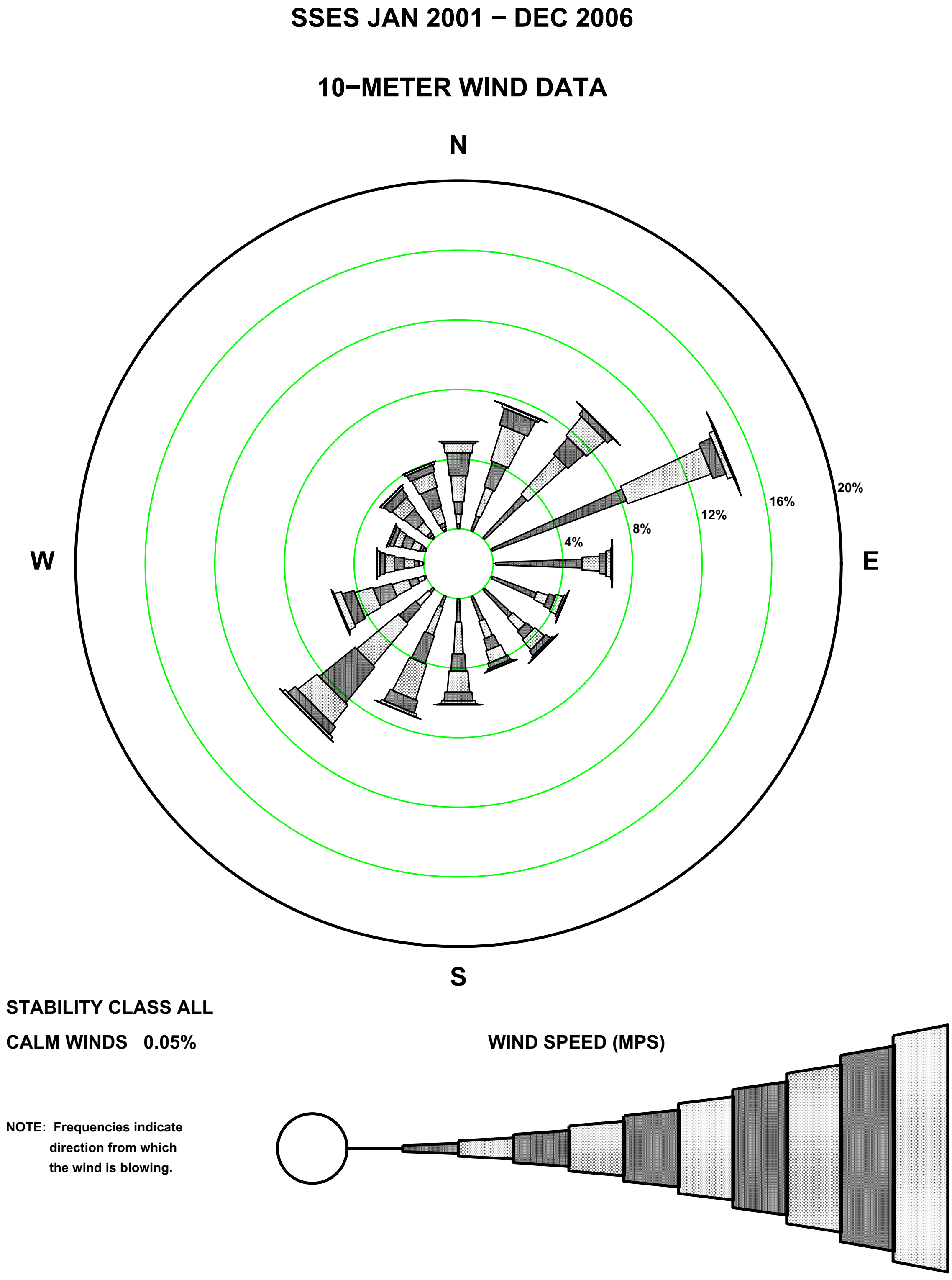


Figure 2.3-7 {BBNPP 197' (60-m) Annual Wind Rose}

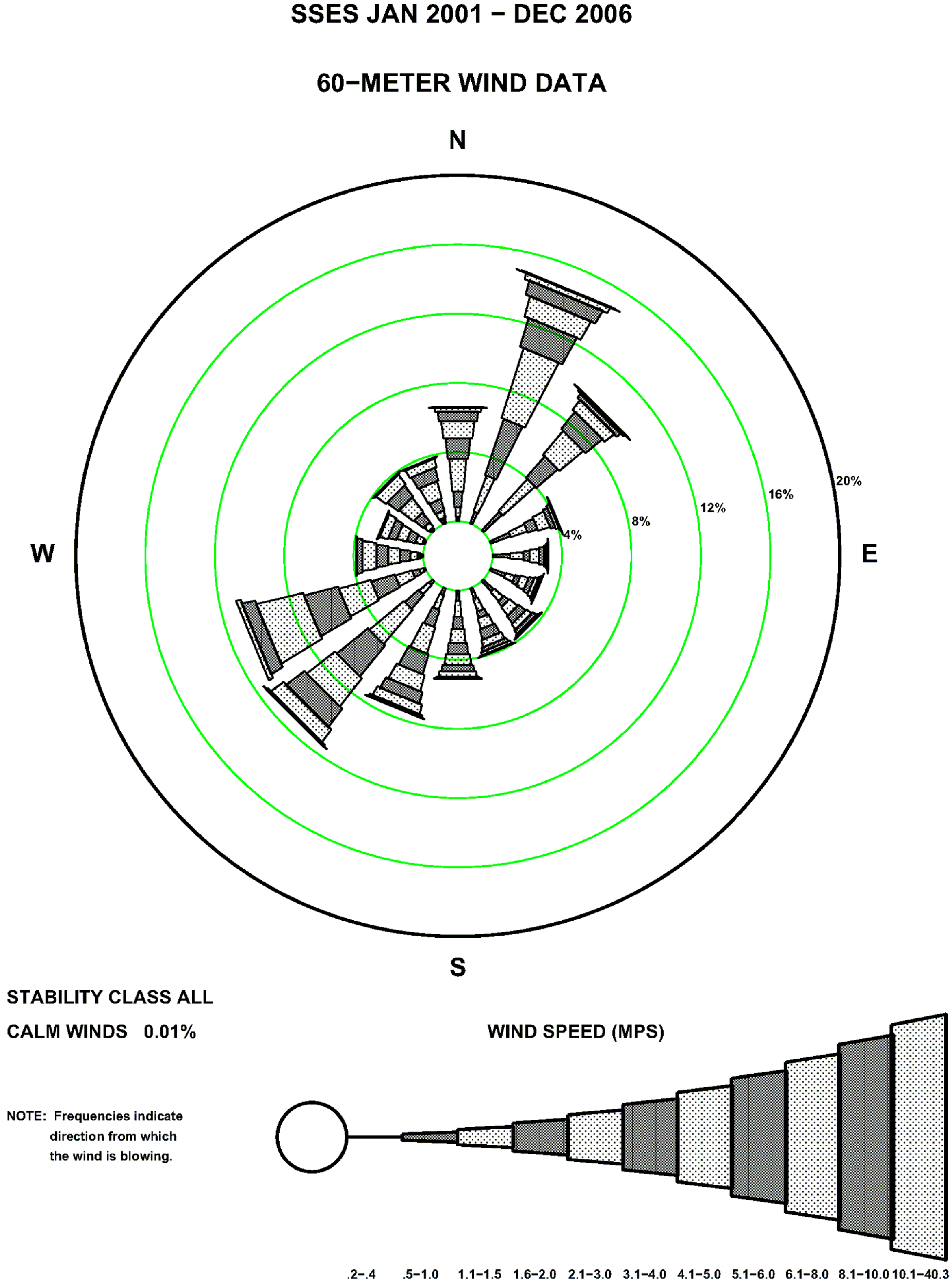


Figure 2.3-8 {BBNPP 33’ (10-m) Seasonal Wind Roses}

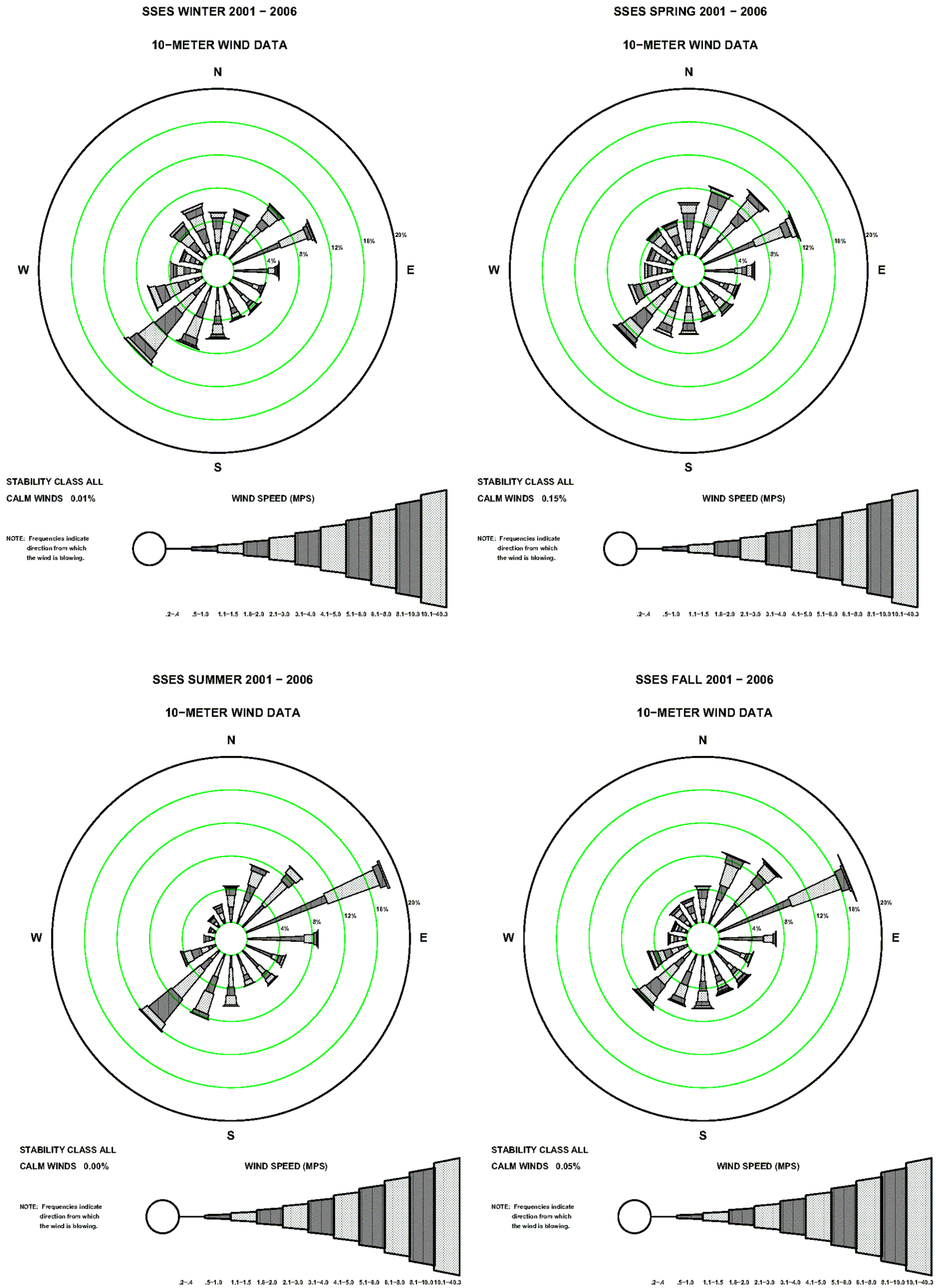
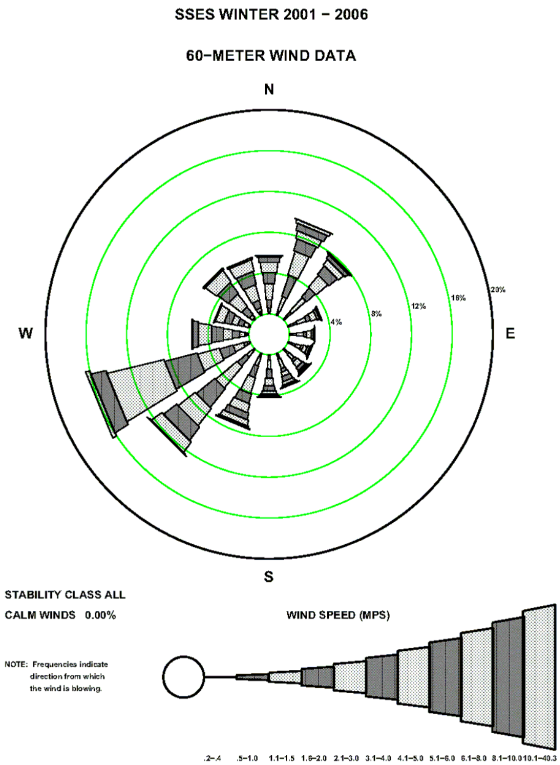
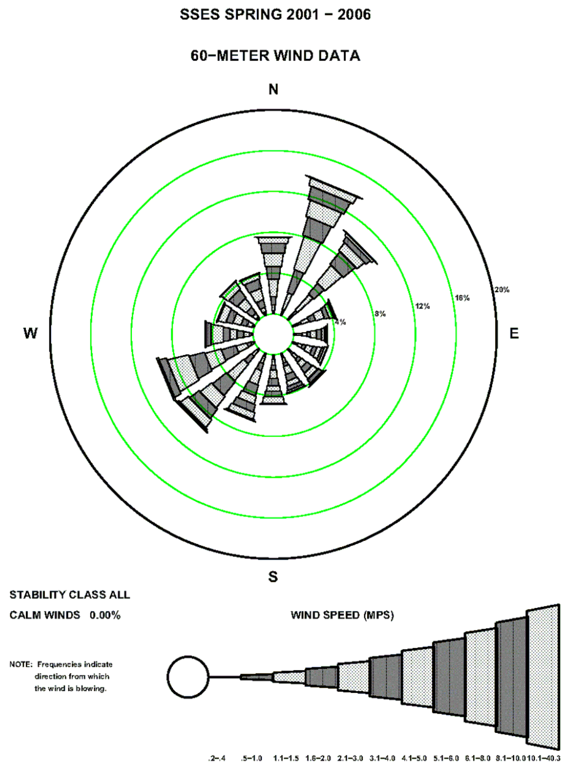
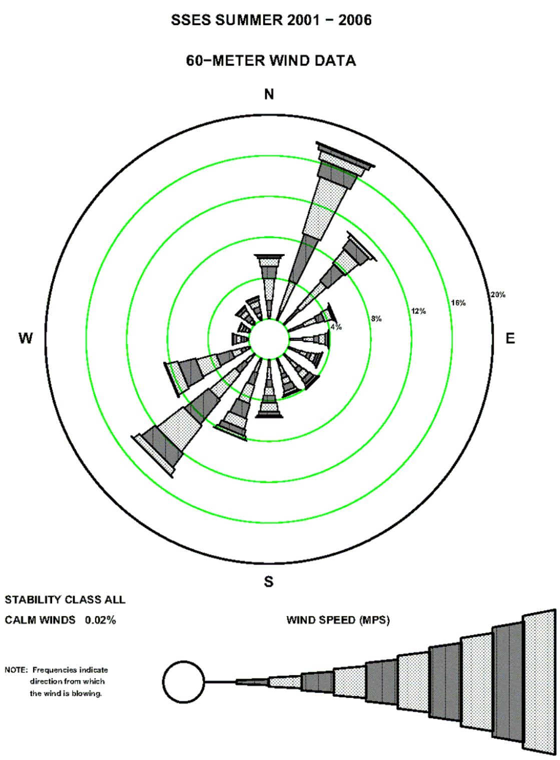


Figure 2.3-9 {BBNPP 197' (60-m) Seasonal Wind Roses}







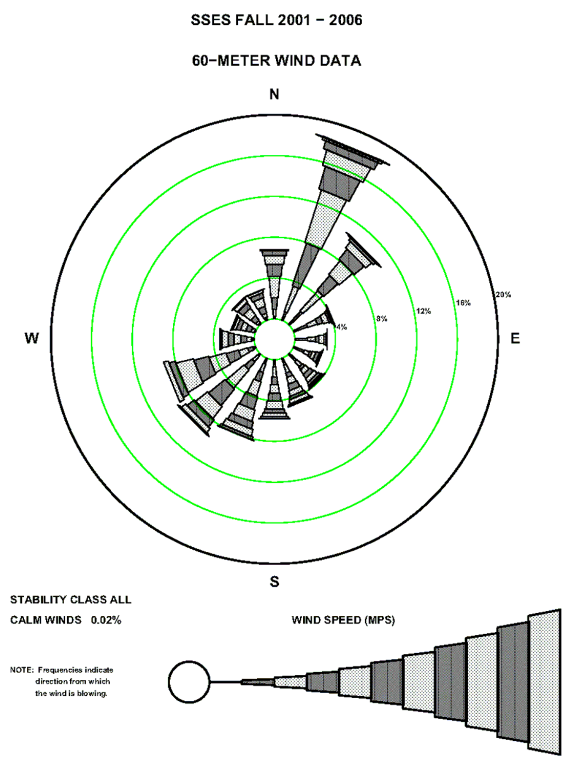


Figure 2.3-10 {BBNPP 33’ (10-m) January Wind Rose}

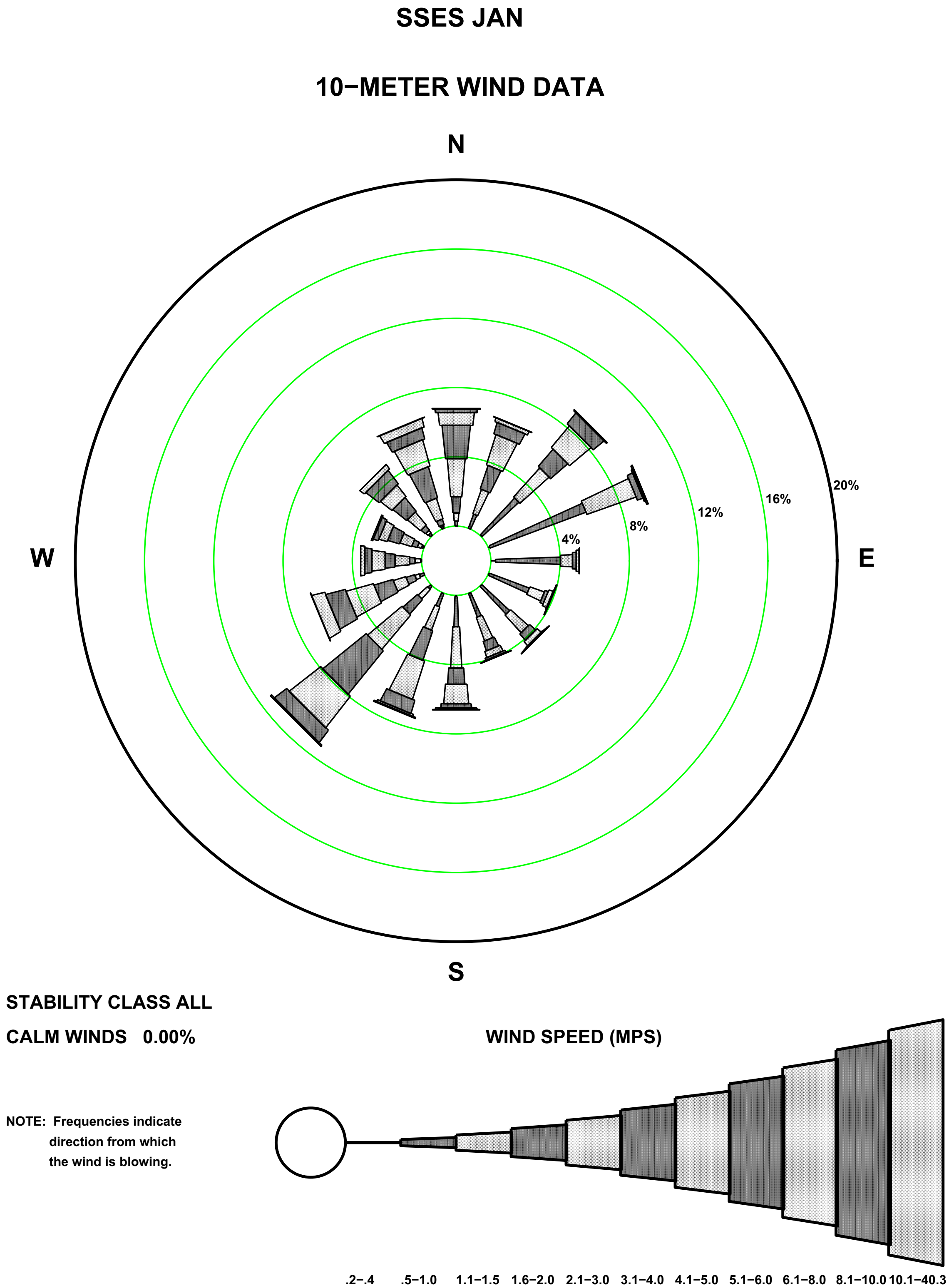


Figure 2.3-11 {BBNPP 33' (10-m) February Wind Rose}

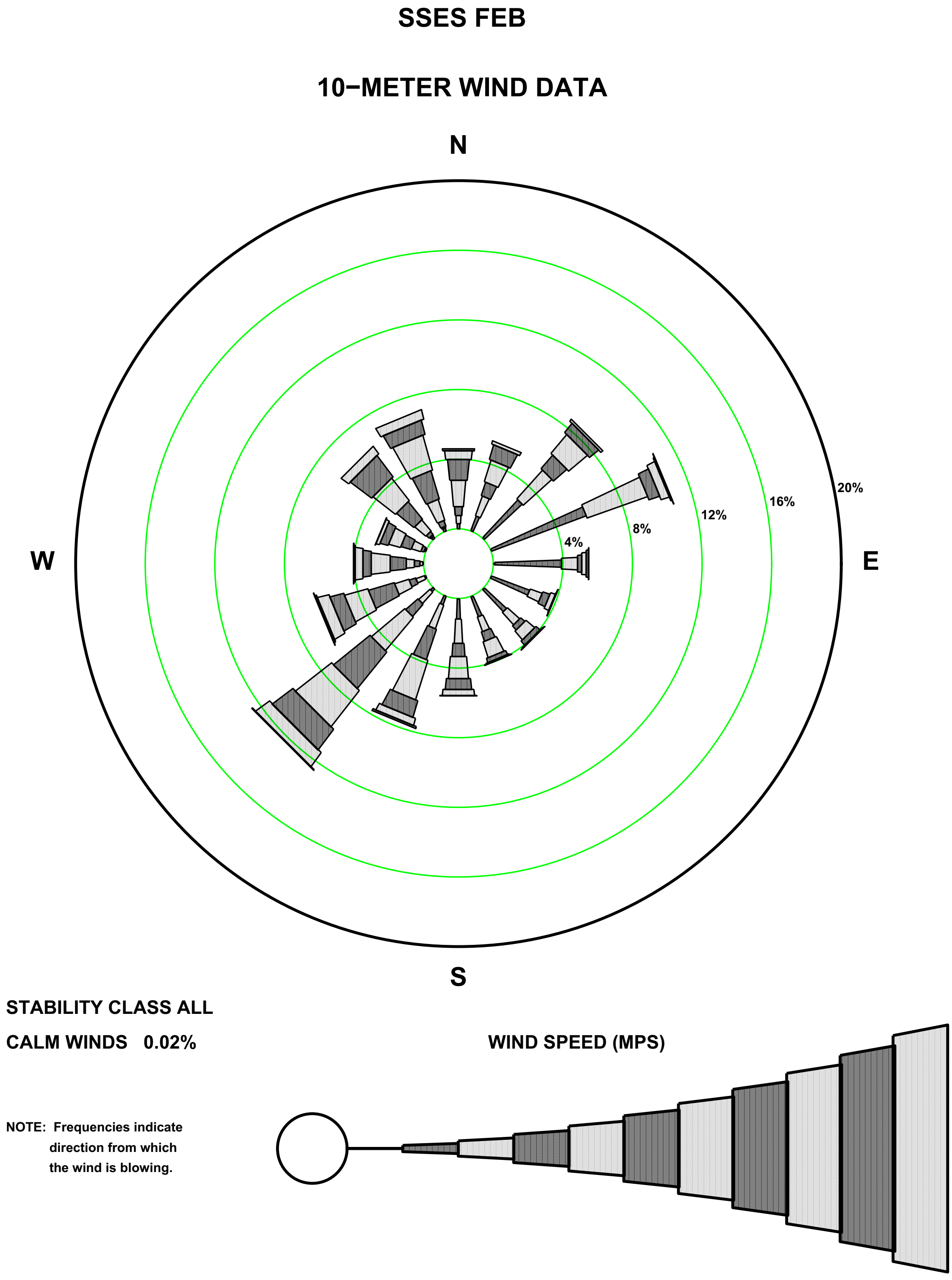


Figure 2.3-12 {BBNPP 33' (10-m) March Wind Rose}

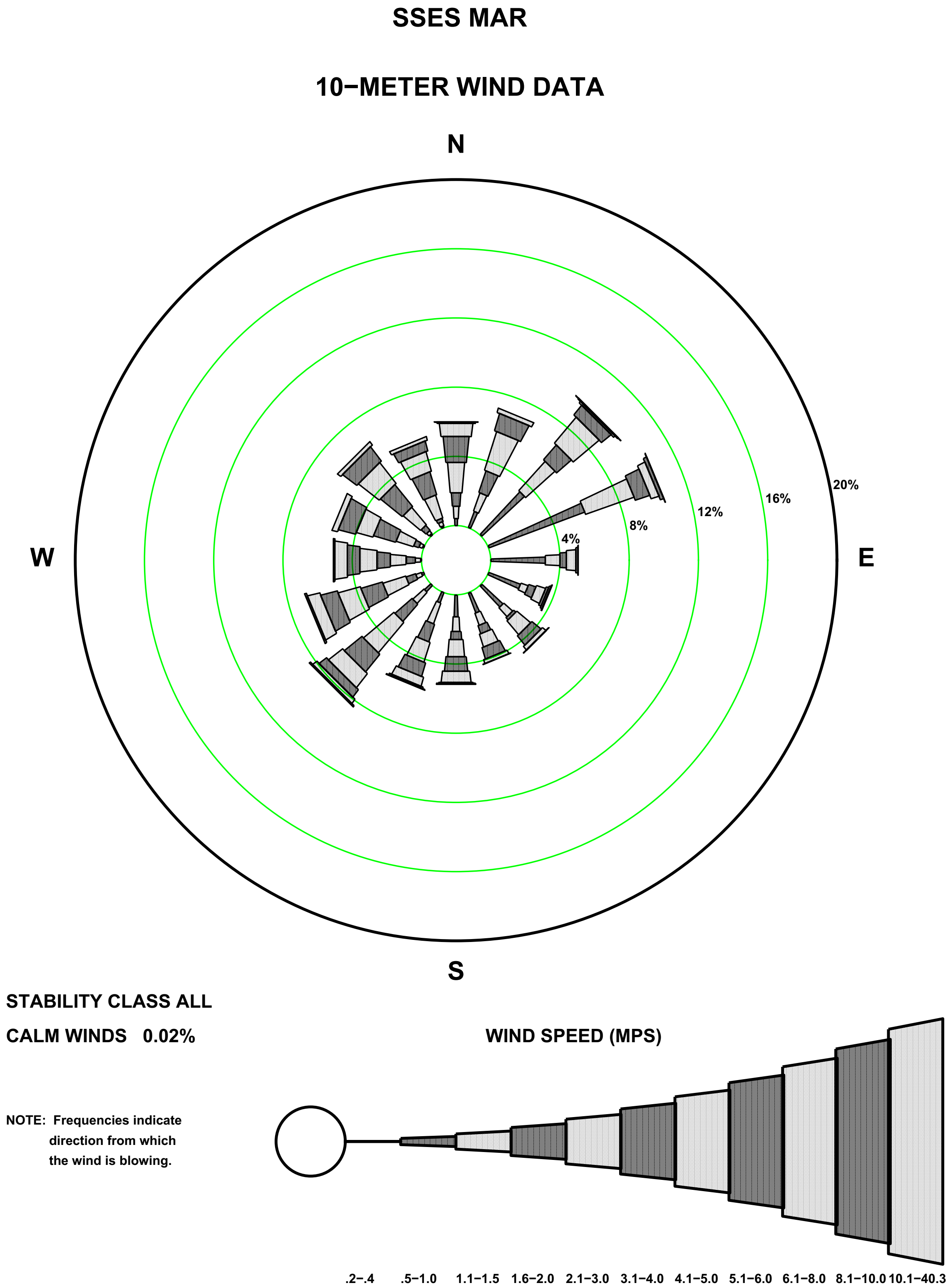


Figure 2.3-13 {BBNPP 33' (10-m) April Wind Rose}

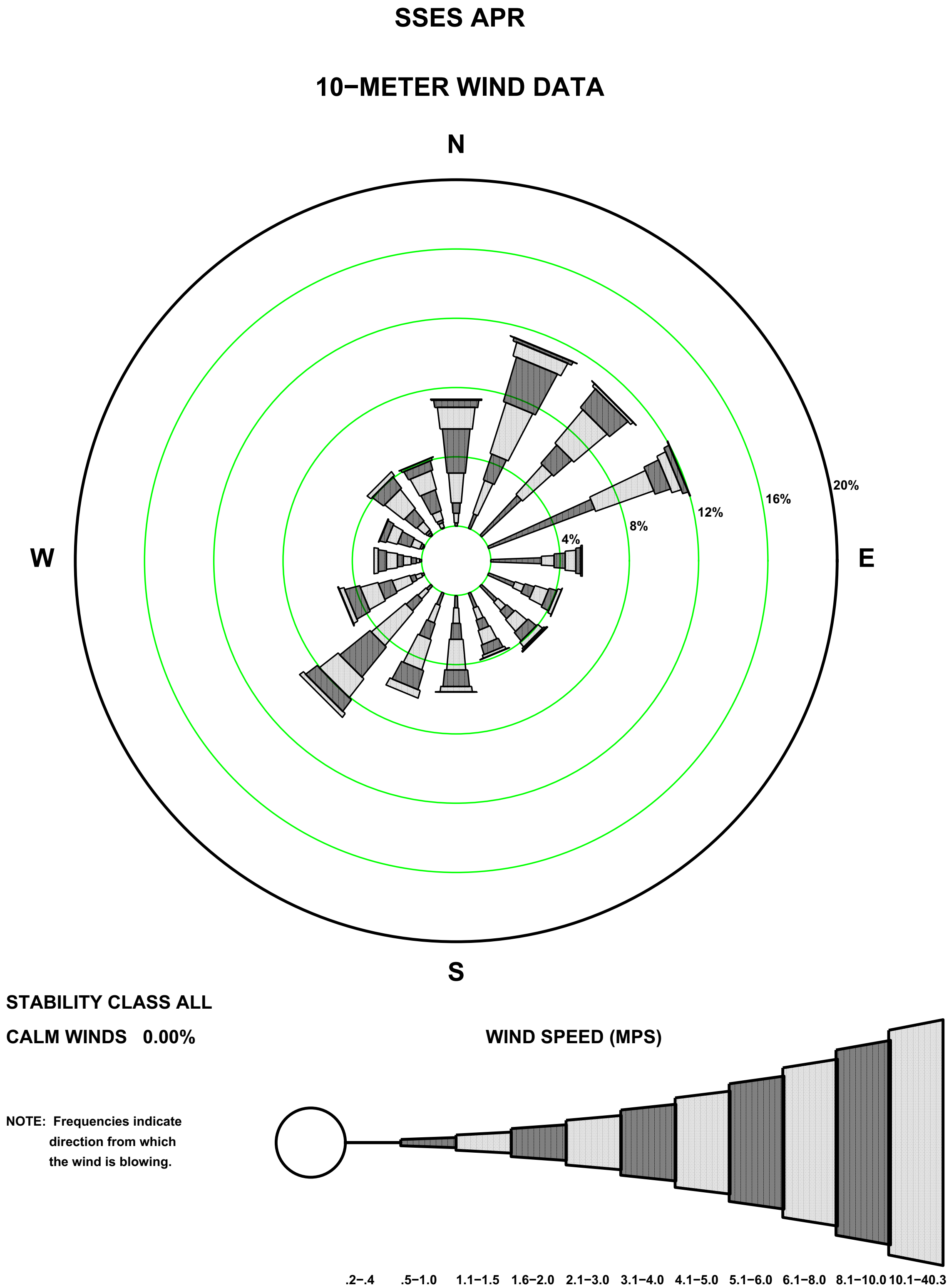


Figure 2.3-14 {BBNPP 33’ (10-m) May Wind Rose}

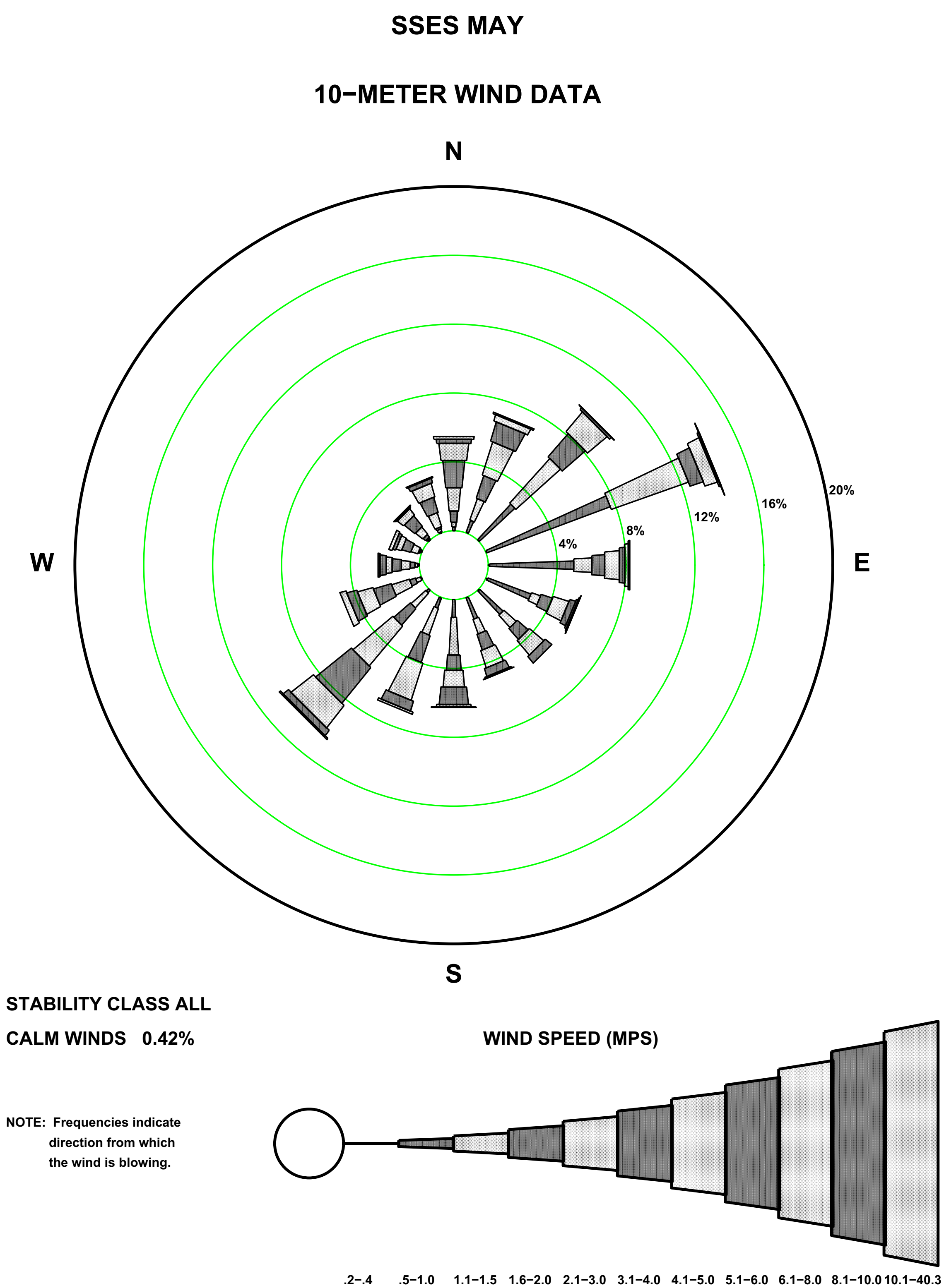


Figure 2.3-15 {BBNPP 33' (10-m) June Wind Rose}

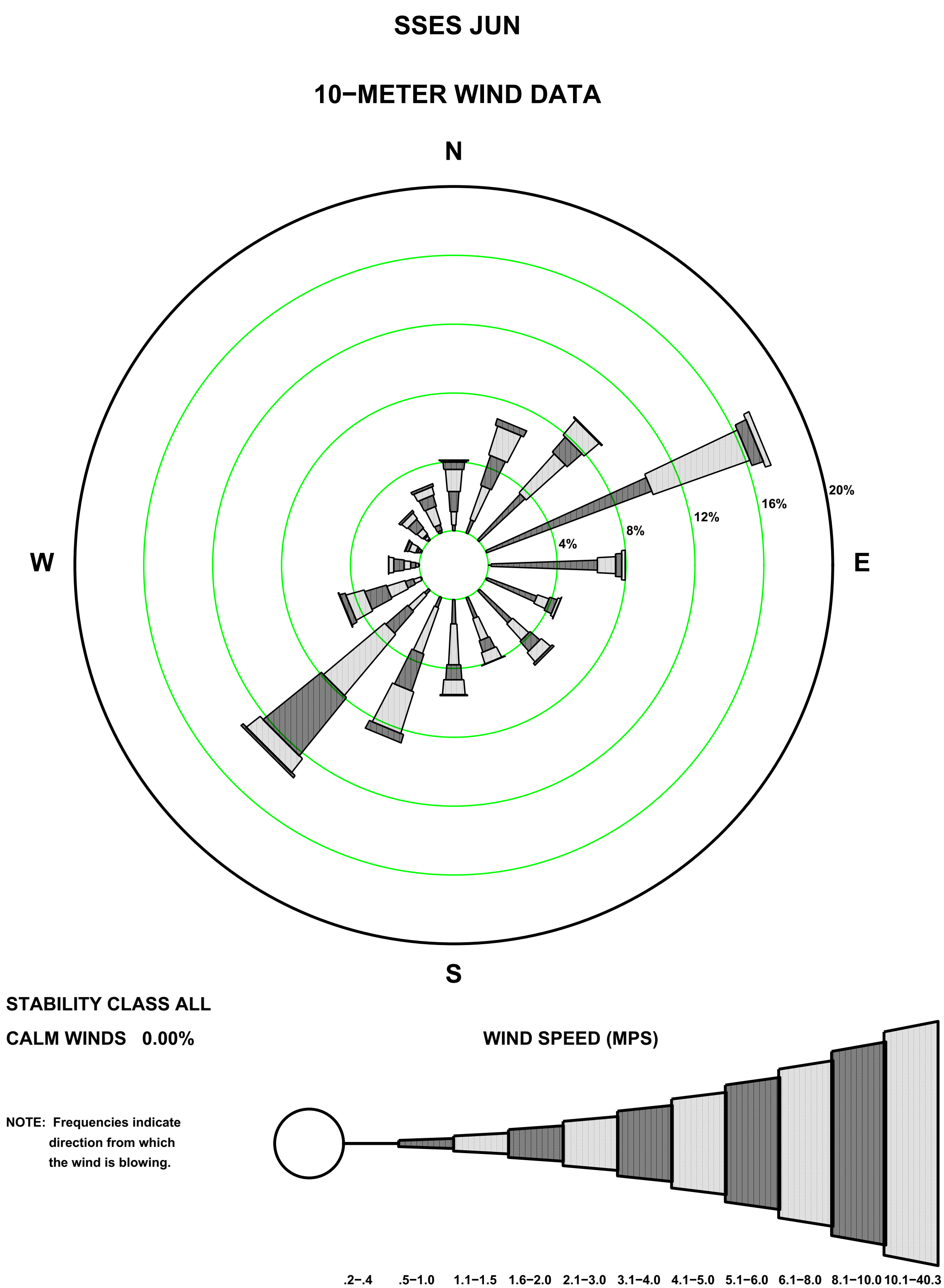


Figure 2.3-16 {BBNPP 33' (10-m) July Wind Rose}

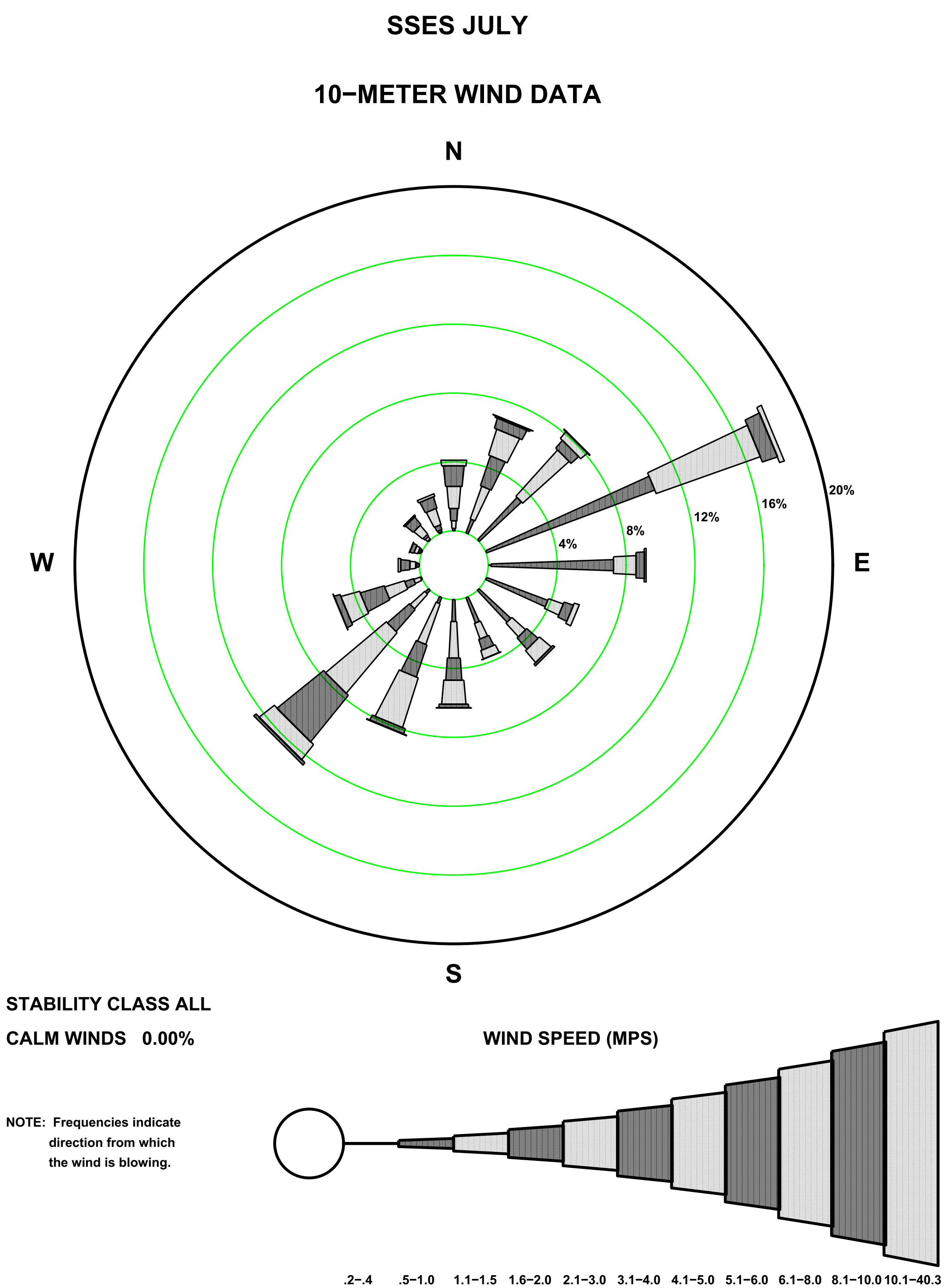


Figure 2.3-17 {BBNPP 33' (10-m) August Wind Rose}

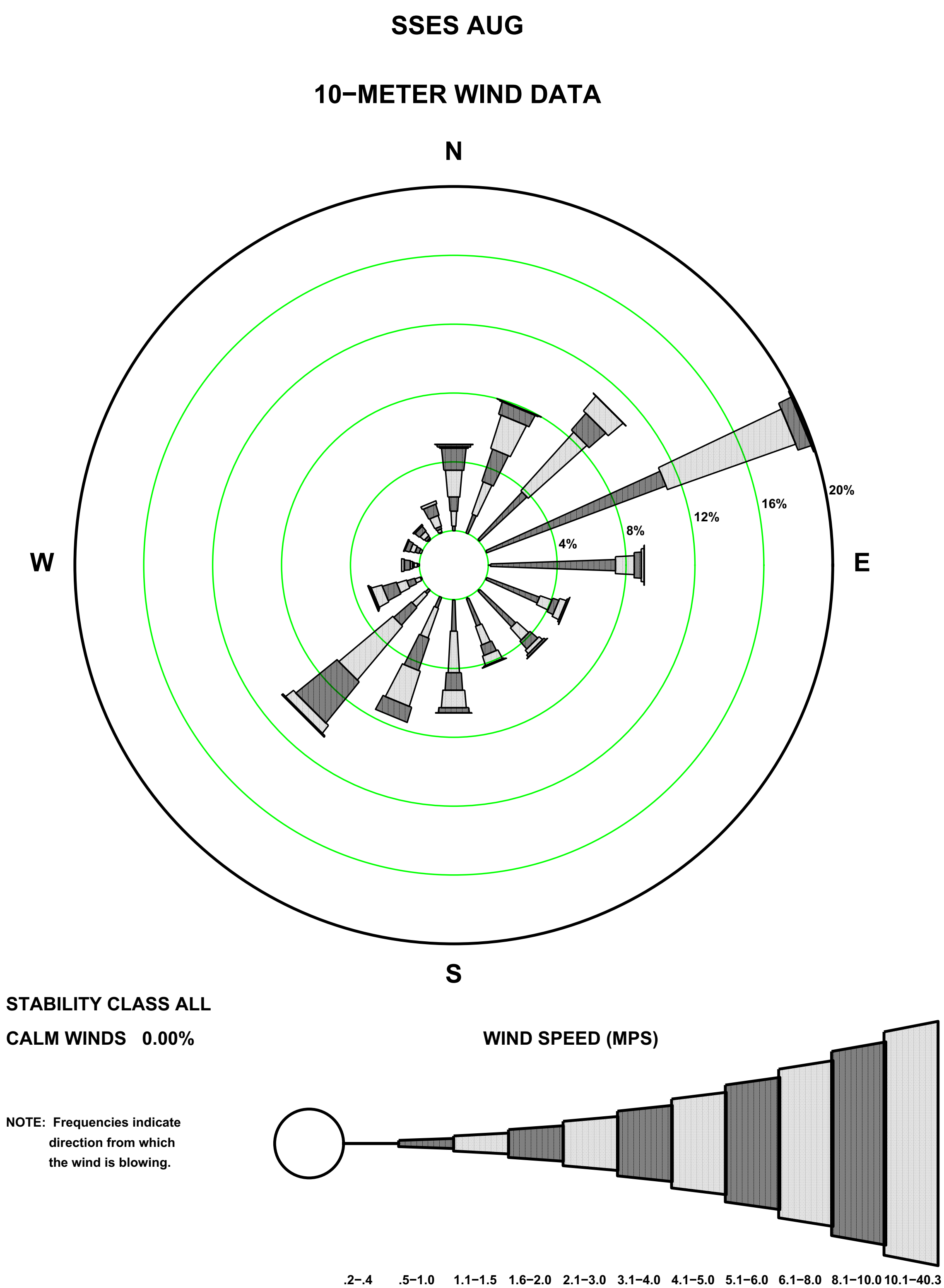


Figure 2.3-18 {BBNPP 33’ (10-m) September Wind Rose}

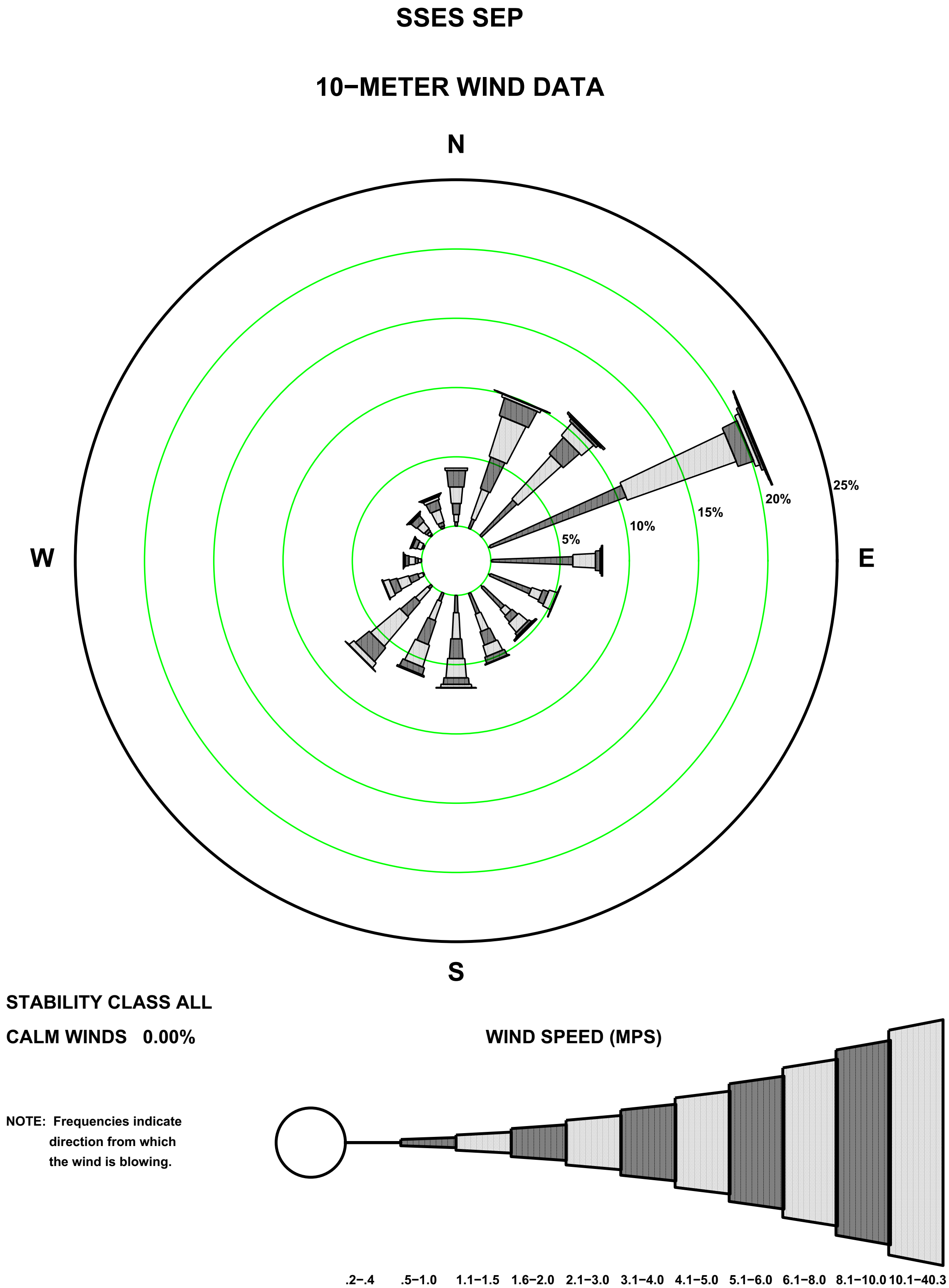


Figure 2.3-19 {BBNPP 33' (10-m) October Wind Rose}

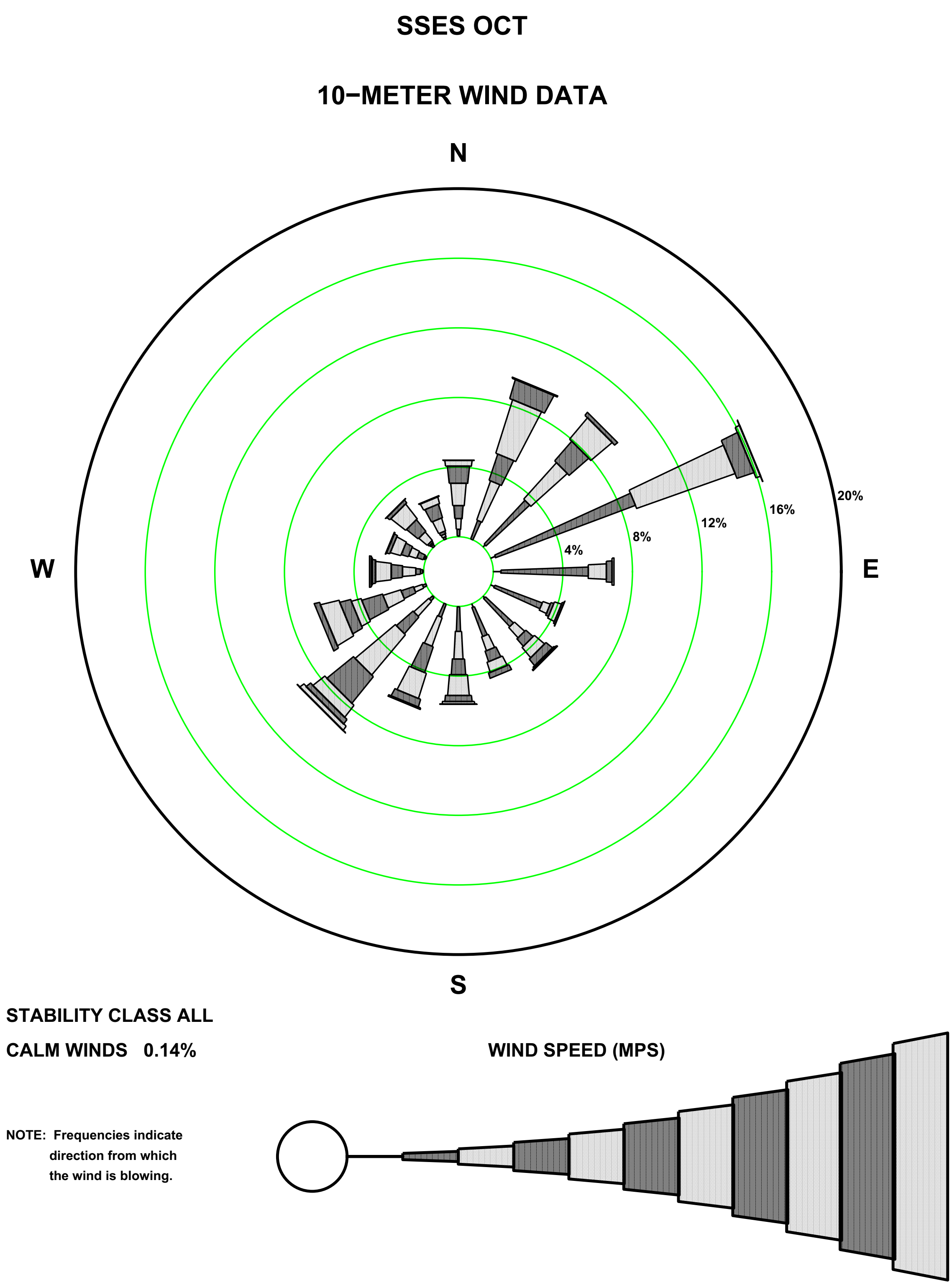


Figure 2.3-20 {BBNPP 33’ (10-m) November Wind Rose}

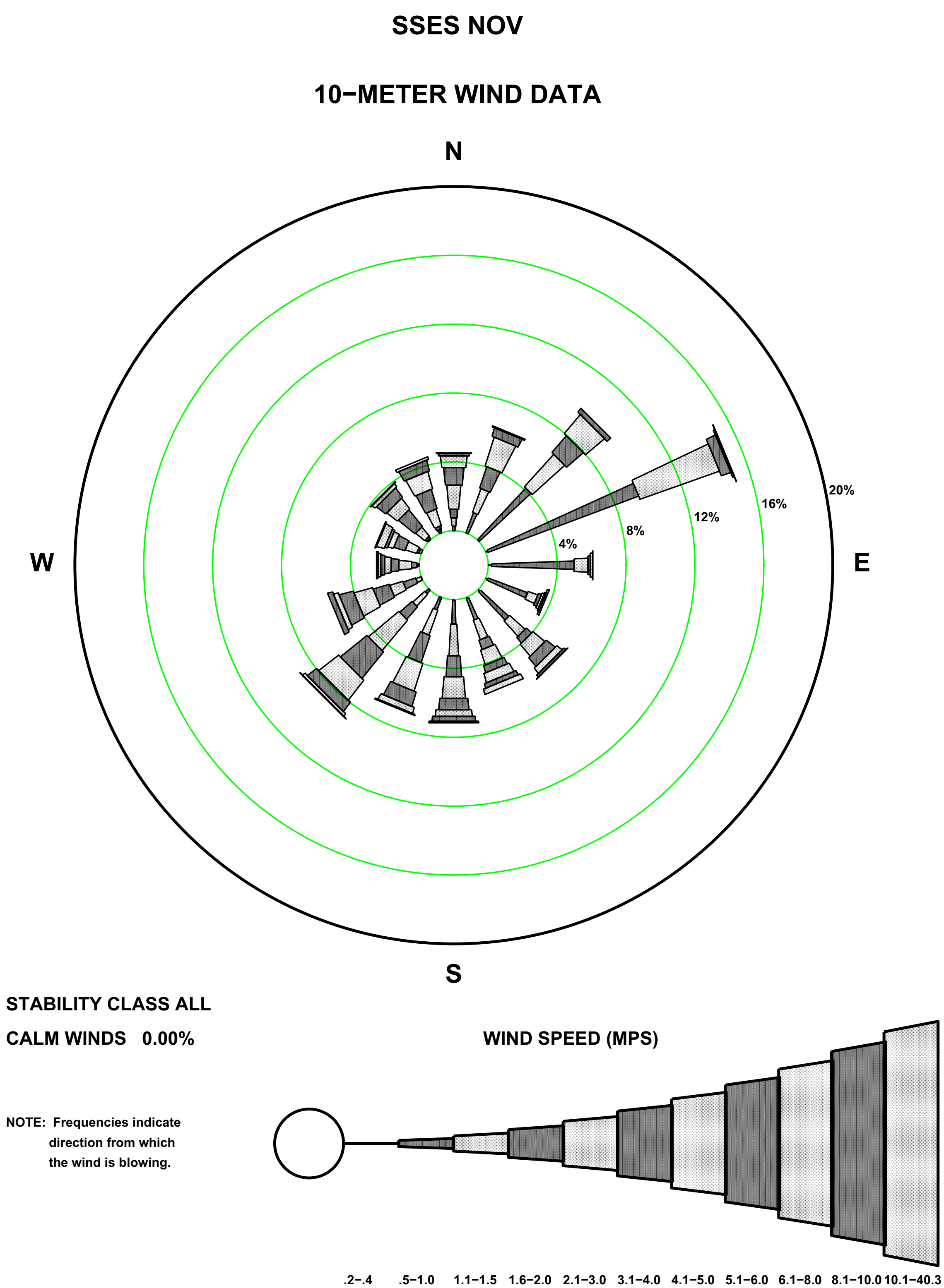


Figure 2.3-21 {BBNPP 33’ (10-m) December Wind Rose}

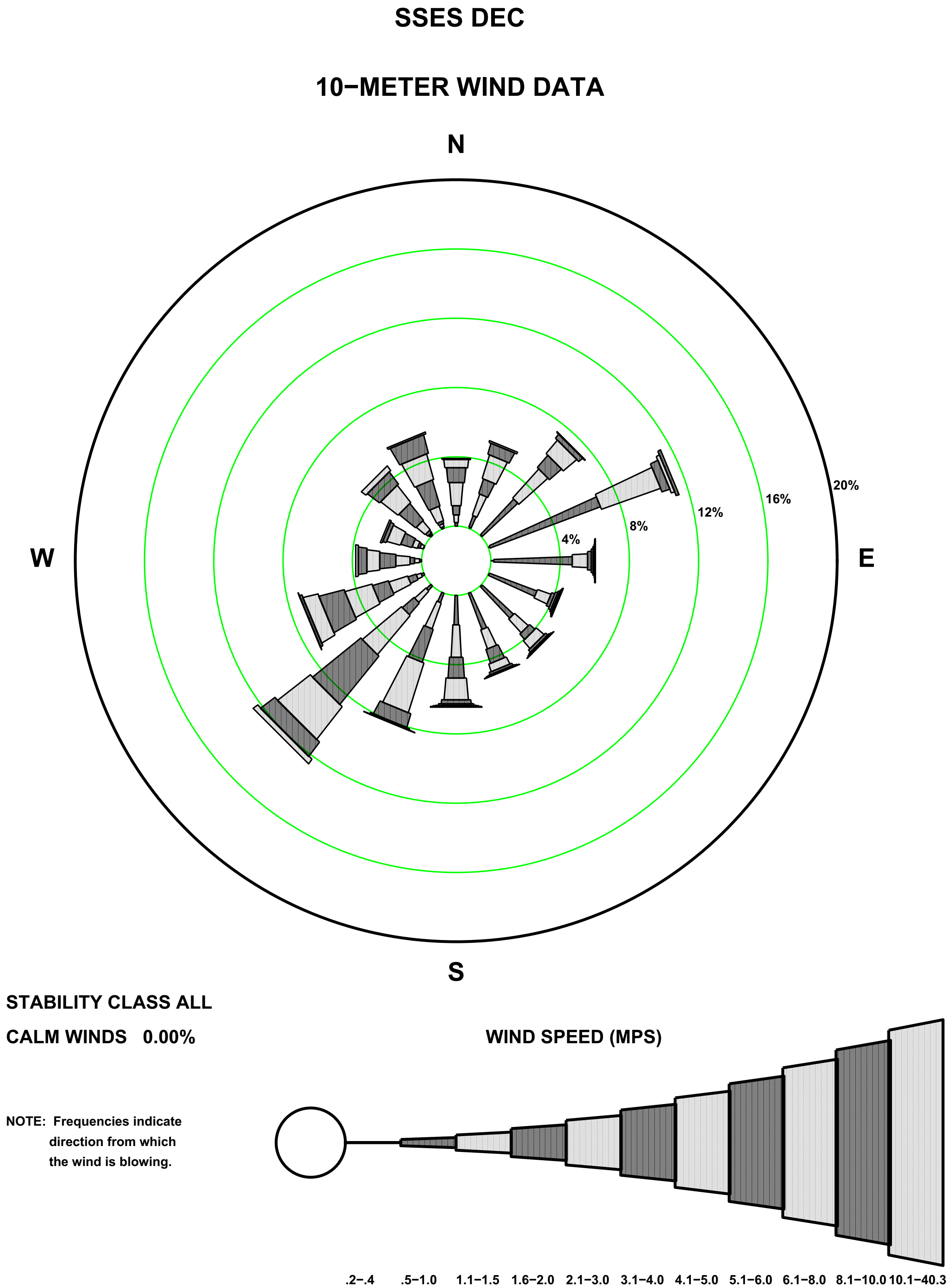


Figure 2.3-22 {BBNPP 197' (60-m) January Wind Rose}

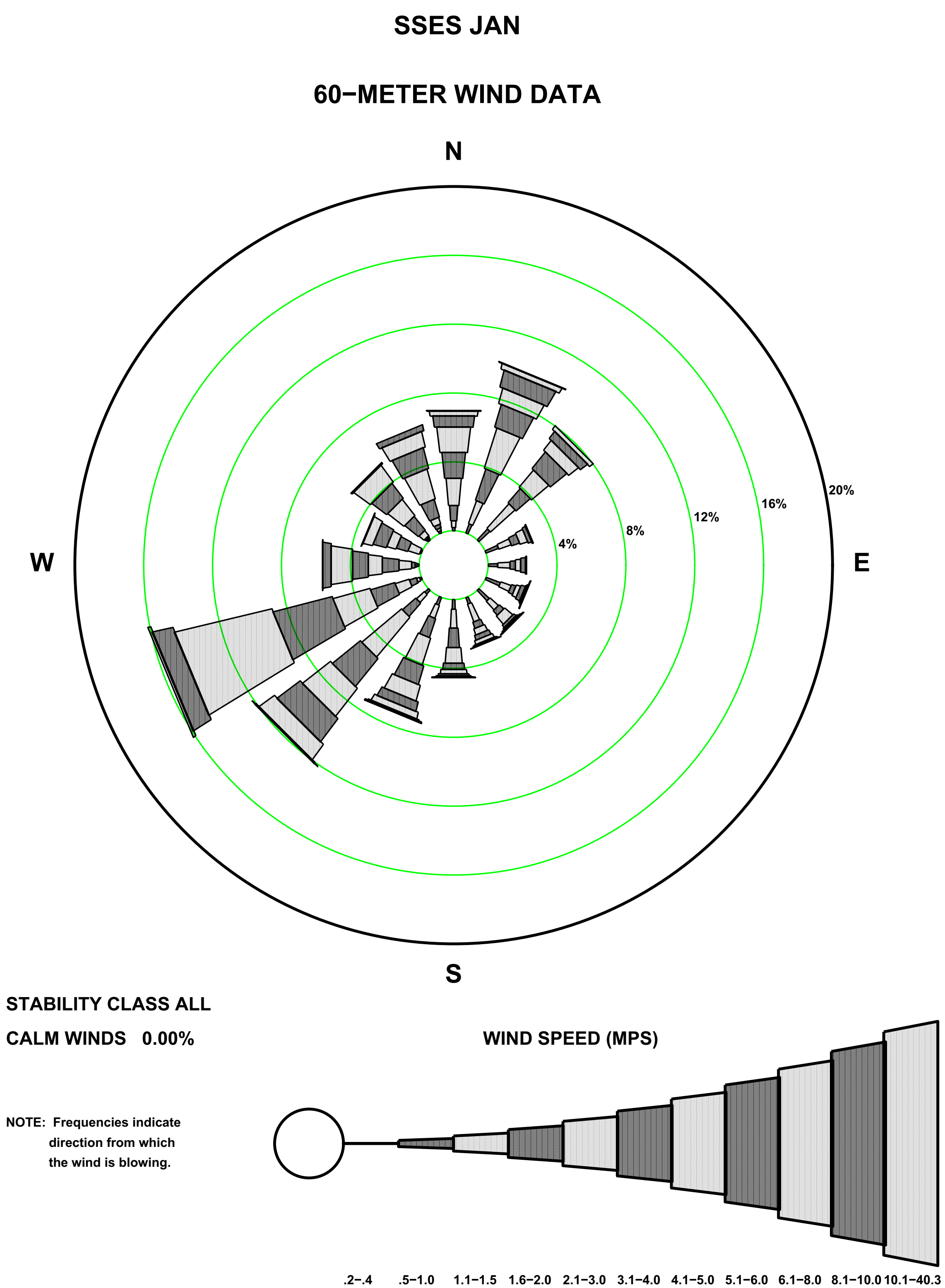


Figure 2.3-23 {BBNPP 197’ (60-m) February Wind Rose}

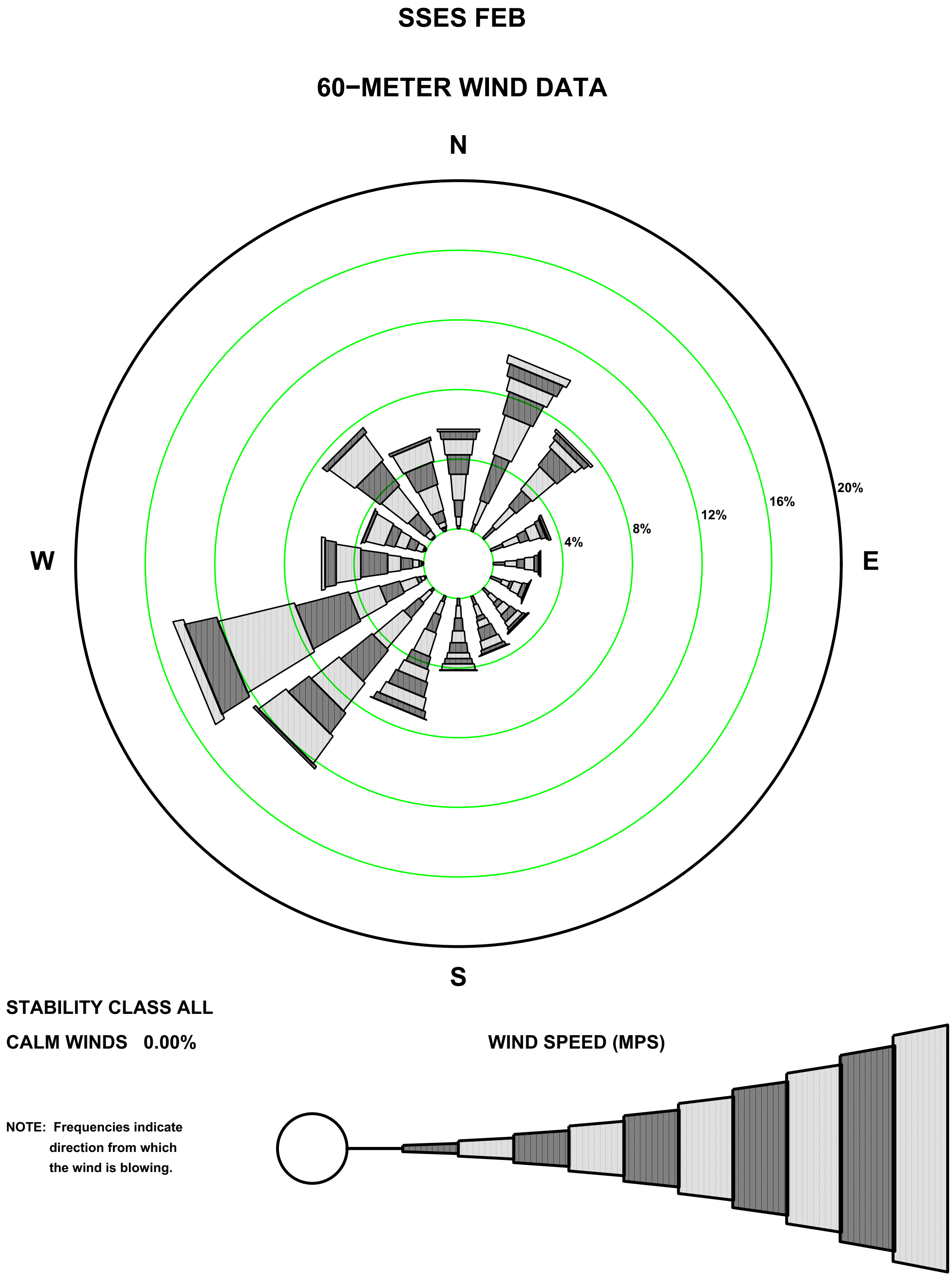


Figure 2.3-24 {BBNPP 197’ (60-m) March Wind Rose}

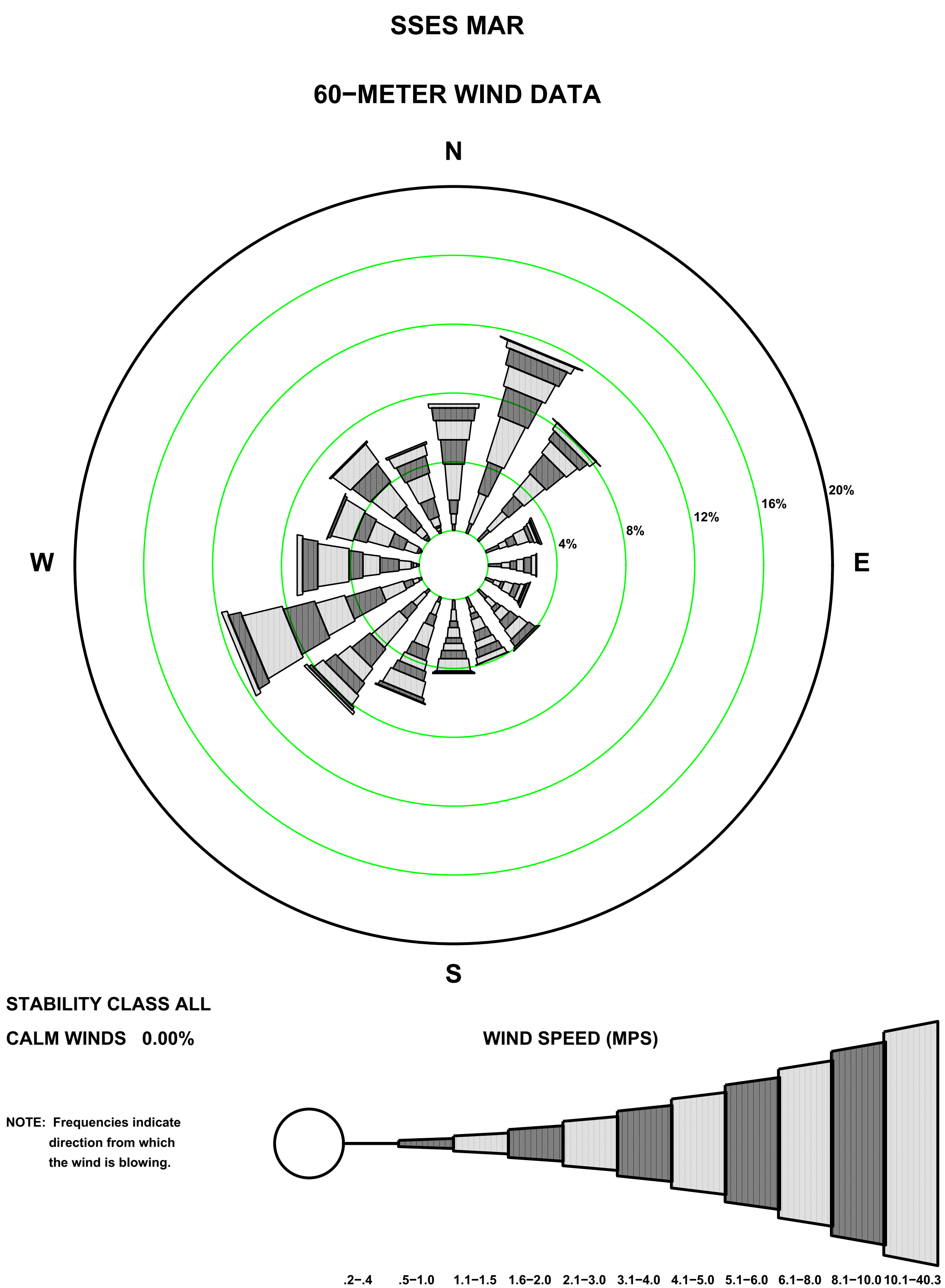


Figure 2.3-25 {BBNPP 197’ (60-m) April Wind Rose}

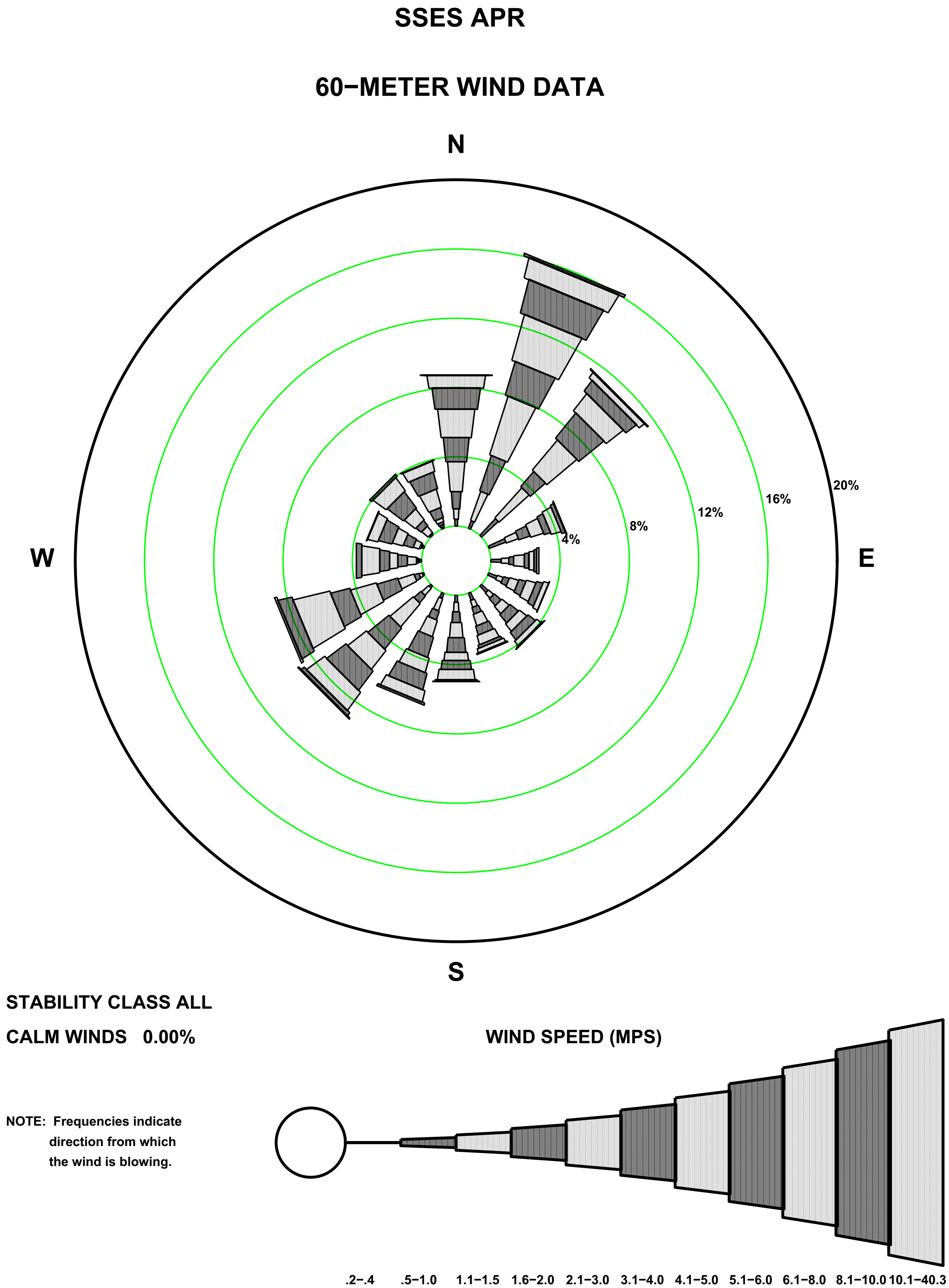


Figure 2.3-26 {BBNPP 197' (60-m) May Wind Rose}

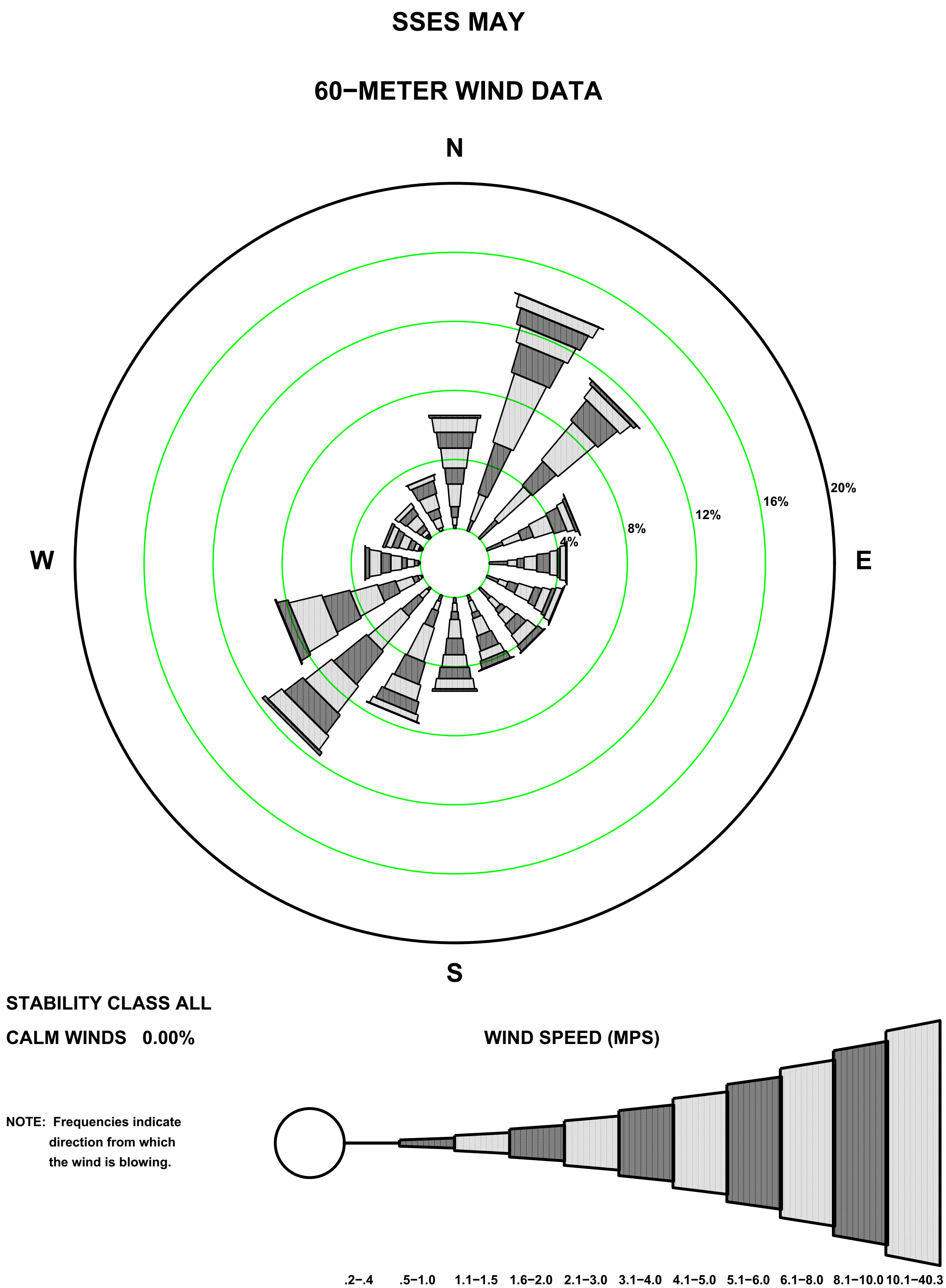


Figure 2.3-27 {BBNPP 197’ (60-m) June Wind Rose}

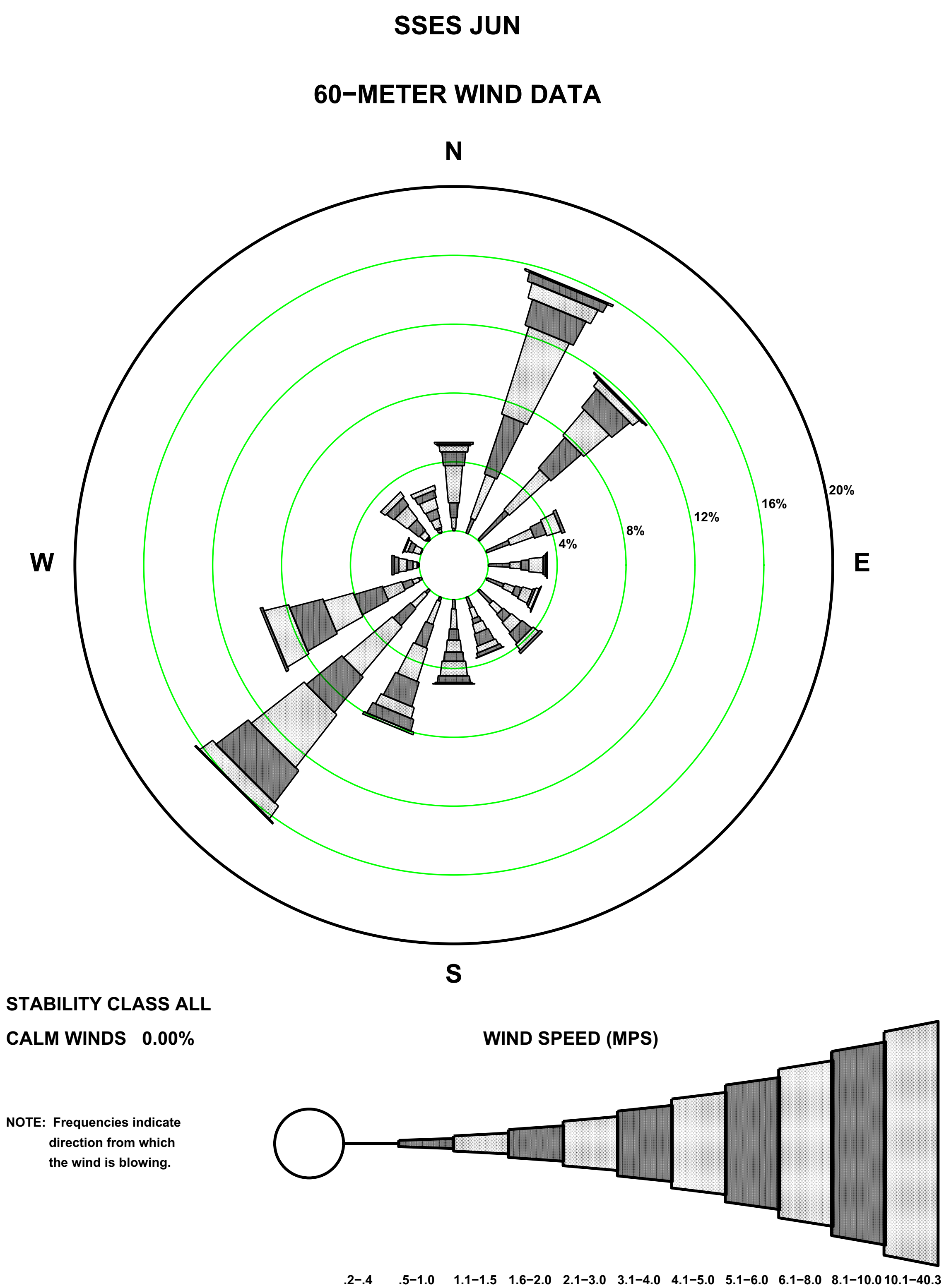


Figure 2.3-28 {BBNPP 197' (60-m) July Wind Rose}

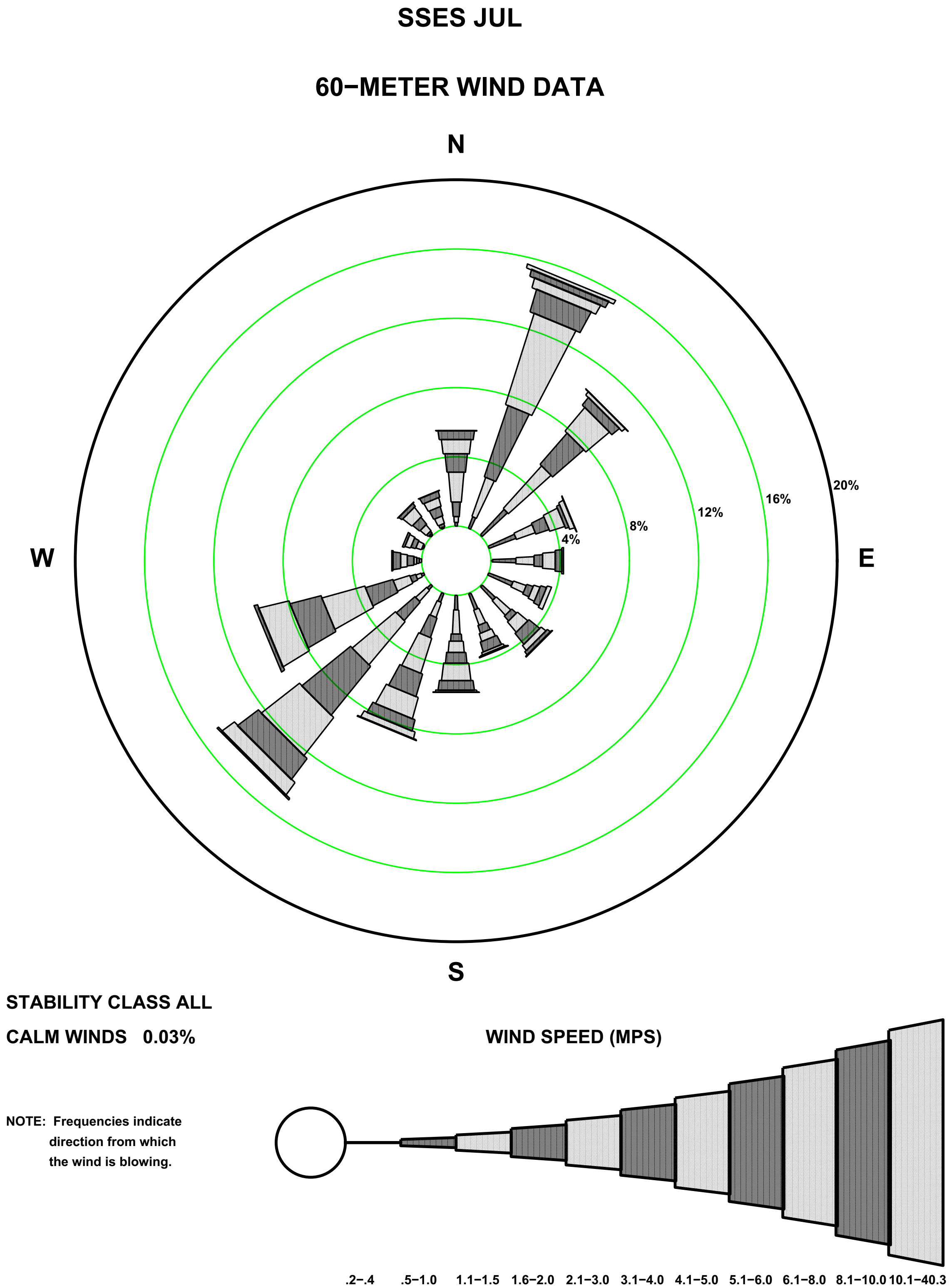


Figure 2.3-29 {BBNPP 197' (60-m) August Wind Rose}

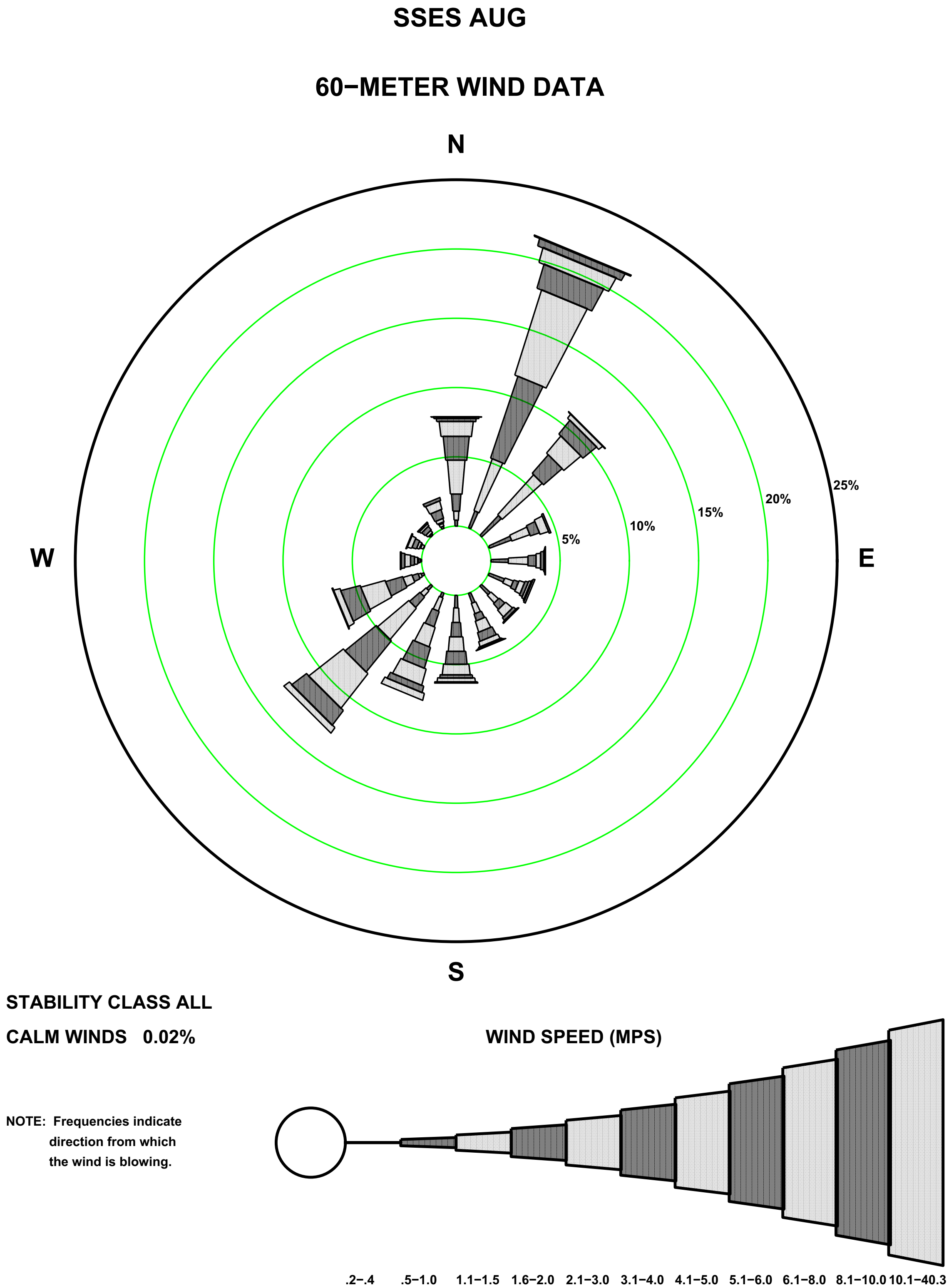


Figure 2.3-30 {BBNPP 197' (60-m) September Wind Rose}

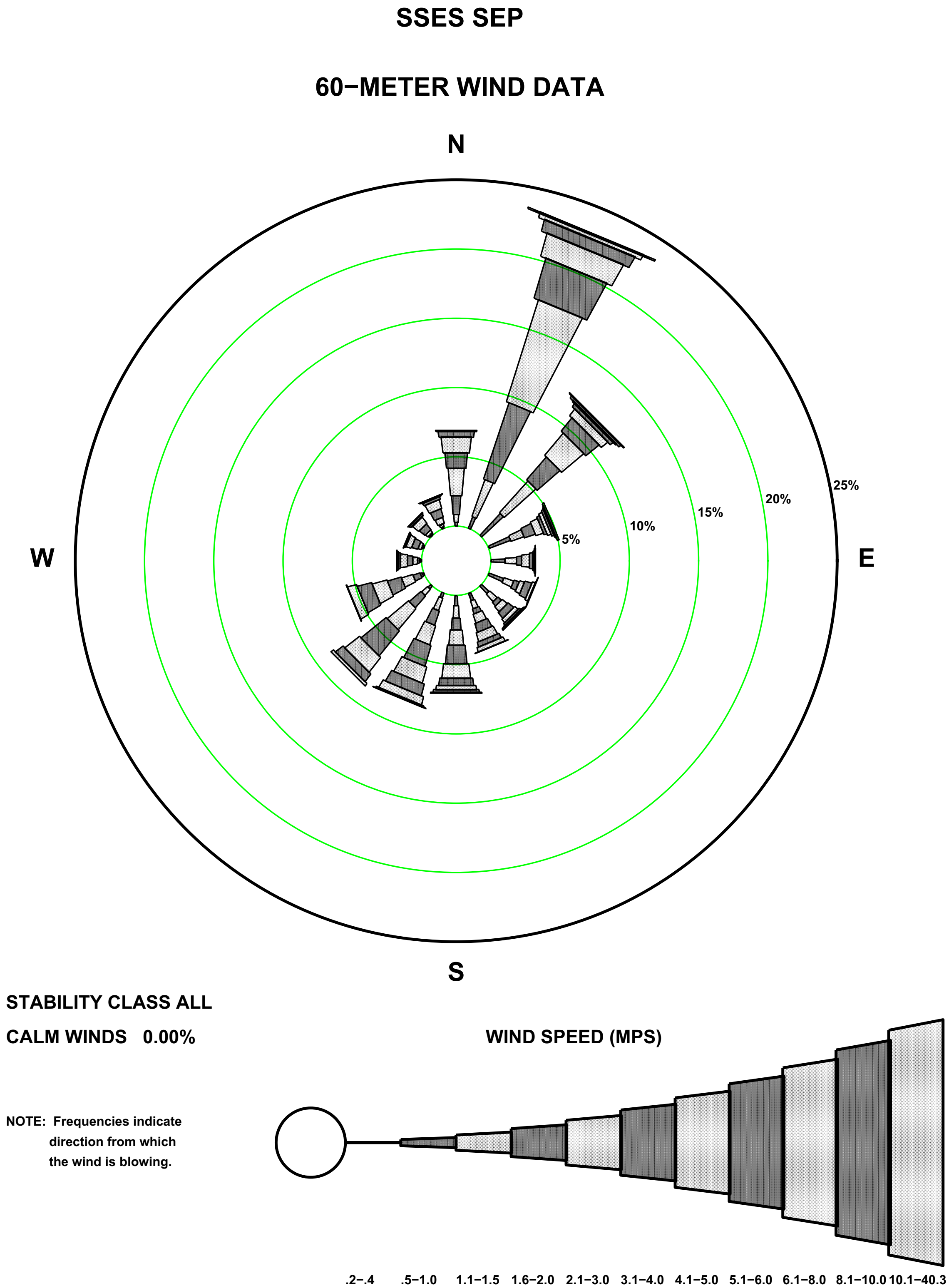


Figure 2.3-31 {BBNPP 197' (60-m) October Wind Rose}

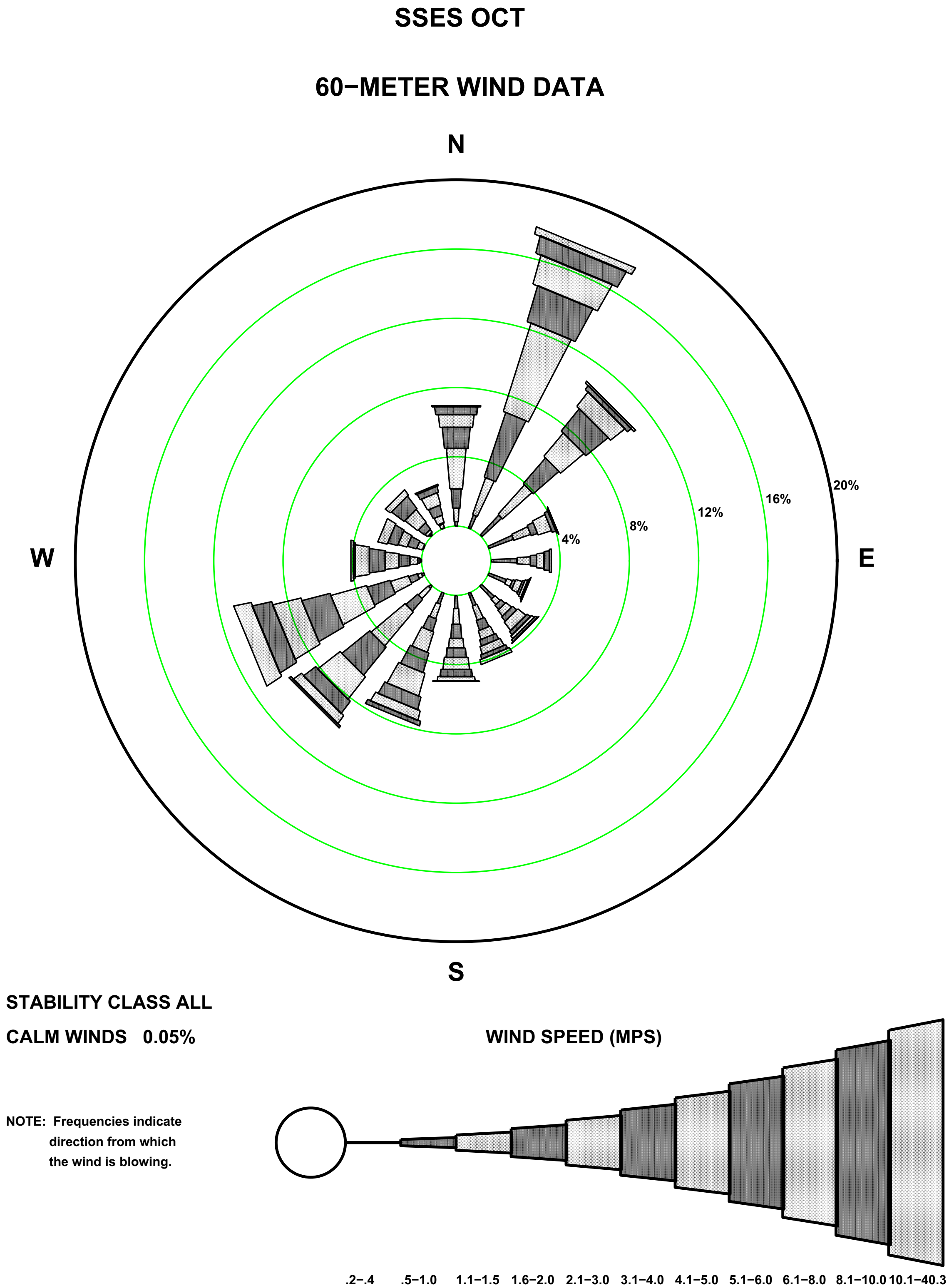


Figure 2.3-32 {BBNPP 197' (60-m) November Wind Rose}

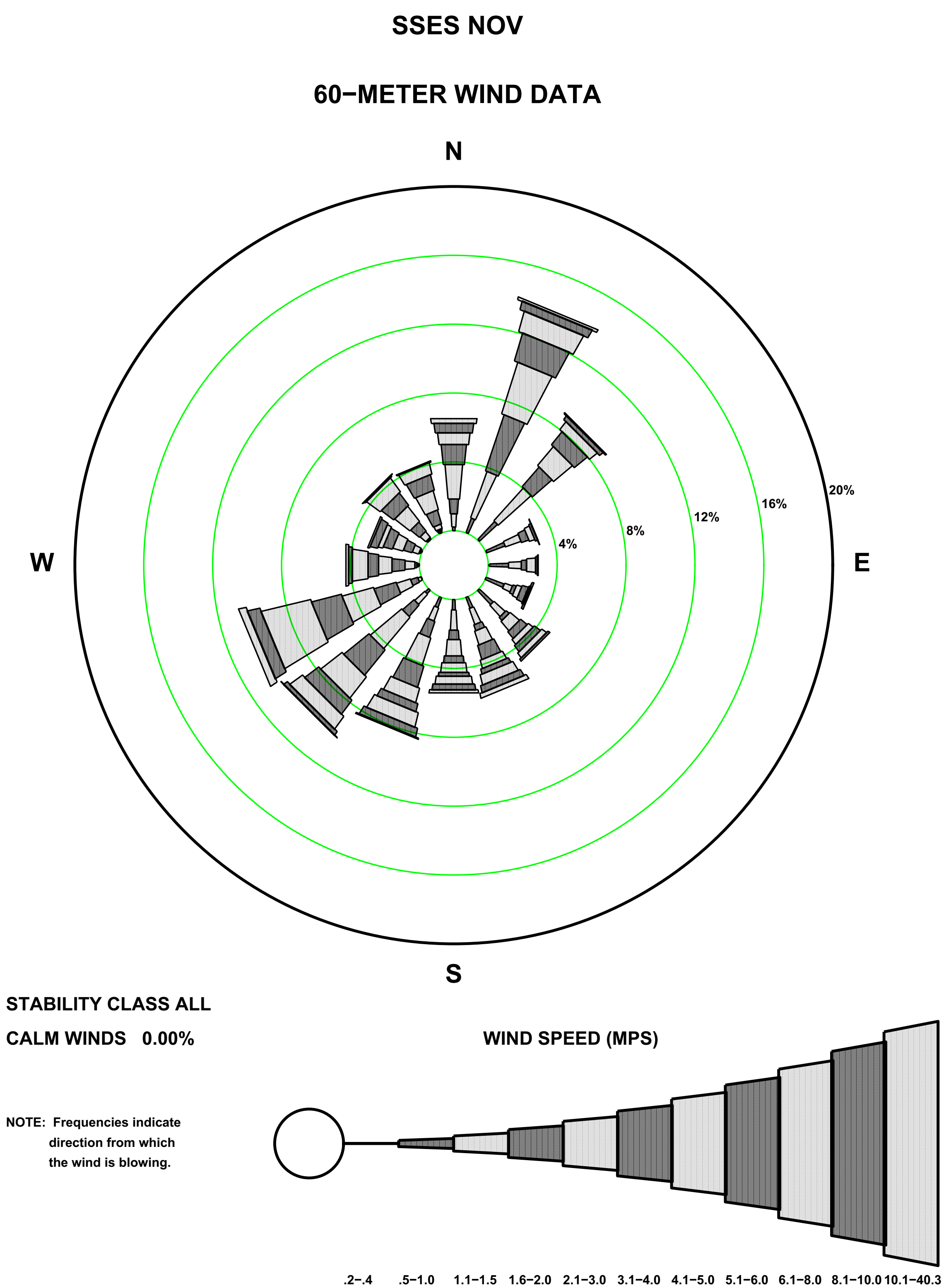


Figure 2.3-33 {BBNPP 197’ (60-m) December Wind Rose}

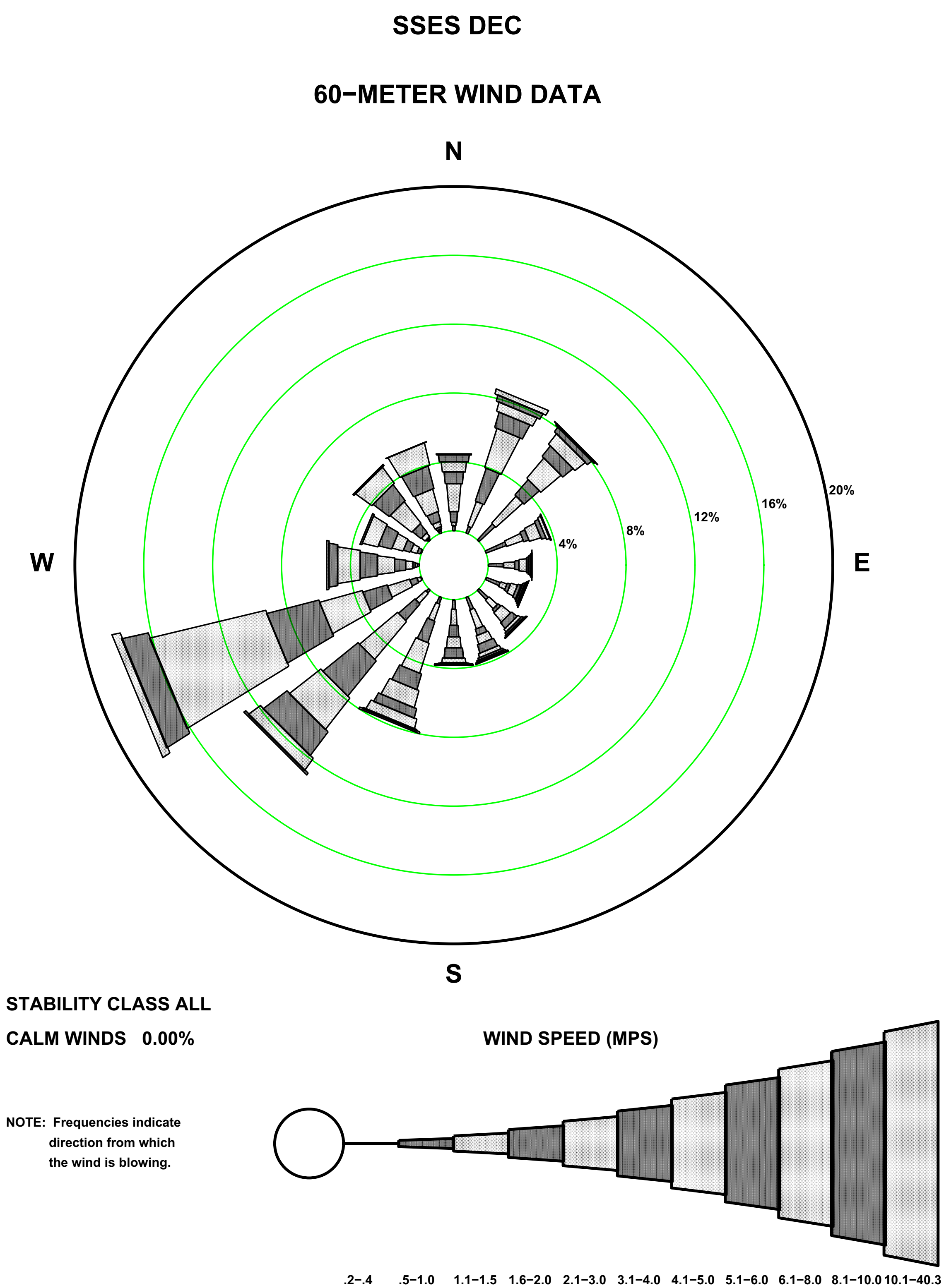
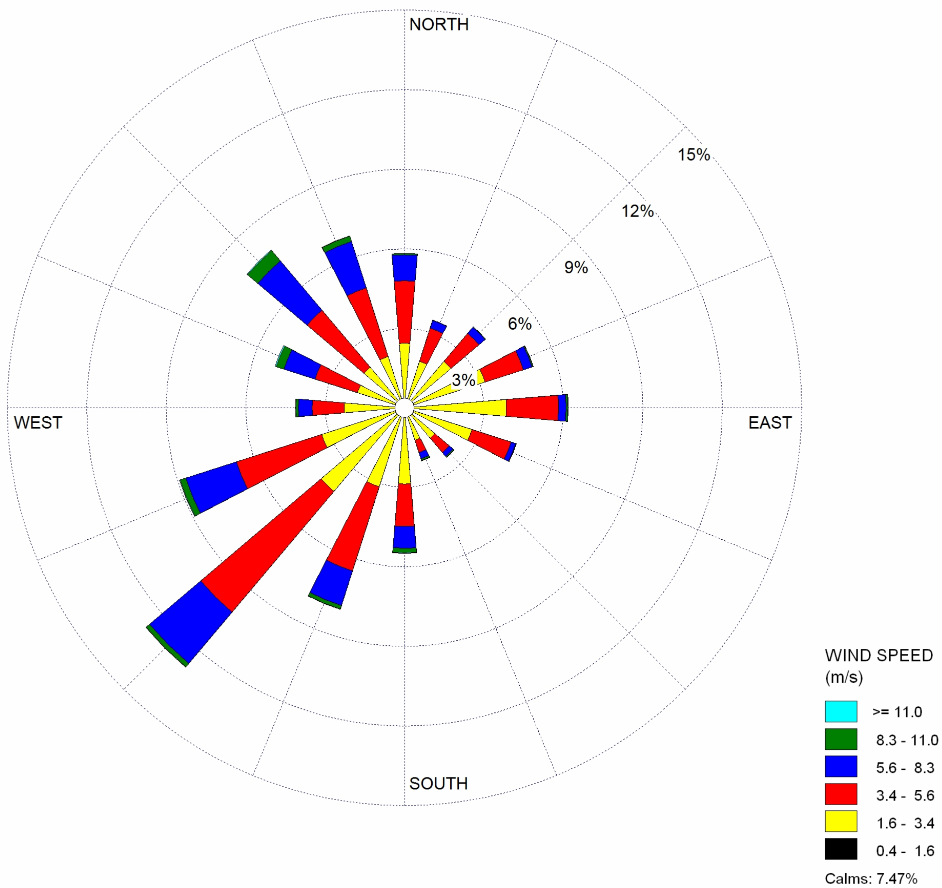


Figure 2.3-34 {Wilkes-Barre/Scranton, Pennsylvania, Wind Rose}

WIND ROSE PLOT:	DISPLAY:
Station #14777 - WILKES-BARRE/WB-SCRANTON WSO, PA	**Wind Speed** **Direction (blowing from)**



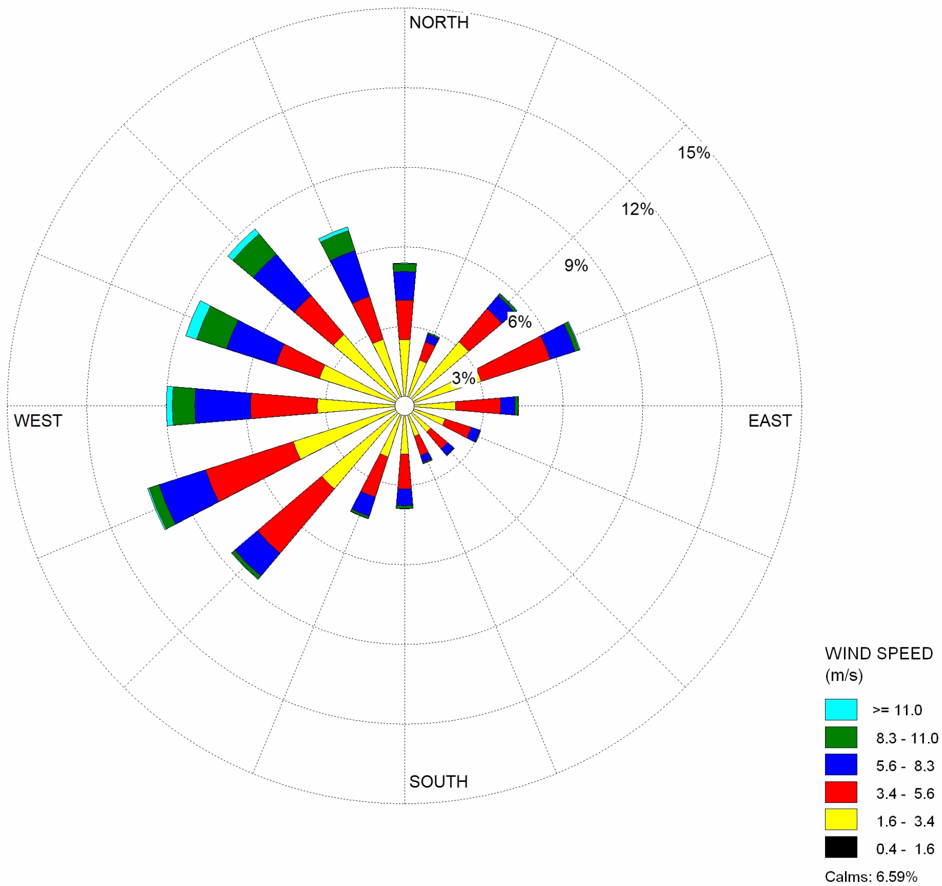
DATA PERIOD: **1984 1985 1986 1987 1989 1991 1992** **Jan 1 - Dec 31** **00:00 - 23:00**	COMPANY NAME: **AREVA NP**	
CALM WINDS: **7.47%**	TOTAL COUNT: **61368 hrs.**	
AVG. WIND SPEED: **3.67 m/s**	DATE: **2/19/2008**	

WRPLOT View - Lakes Environmental Software

Figure 2.3-35 {Allentown, Pennsylvania, Wind Rose}

WIND ROSE PLOT:
Station #14737 - ALLENTOWN/BETLEHEM-EASTON ARP, PA

DISPLAY:
Wind Speed
Direction (blowing from)

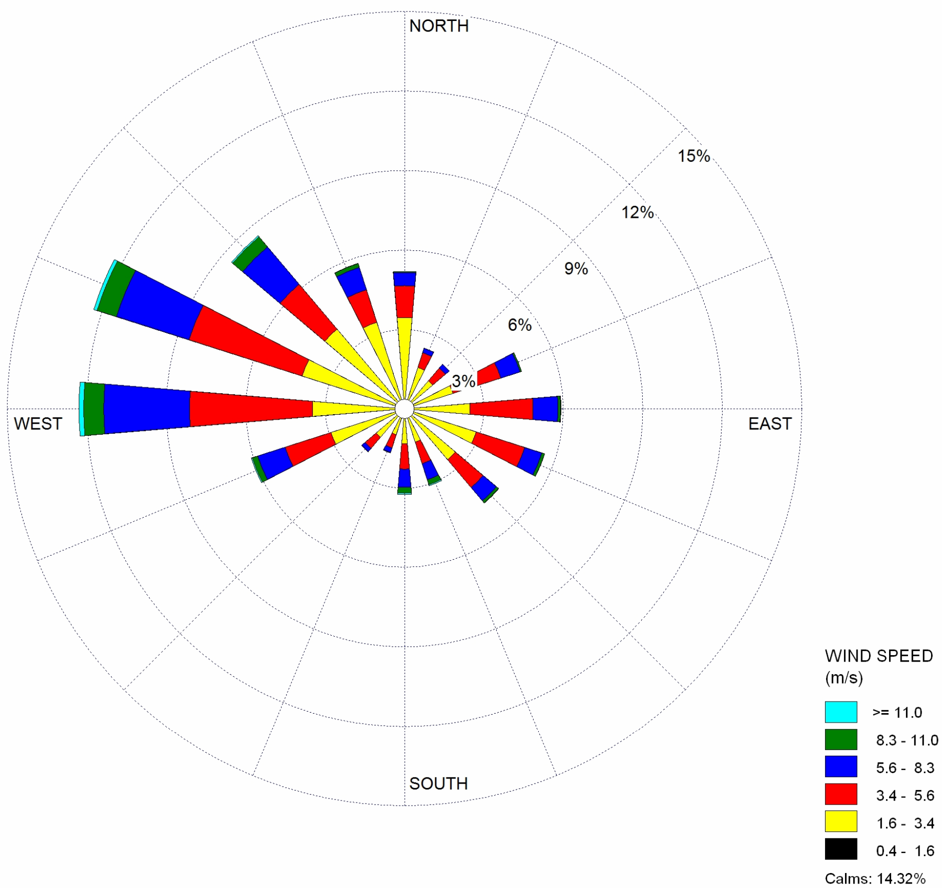


DATA PERIOD: **1984 1985 1986 1987 1988 1989 1990 1991 1992** **Jan 1 - Dec 31** **00:00 - 23:00**	COMPANY NAME: **AREVA NP**	
CALM WINDS: **6.59%**	TOTAL COUNT: **78912 hrs.**	
AVG. WIND SPEED: **3.92 m/s**	DATE: **2/24/2008**	

Figure 2.3-36 {Williamsport, Pennsylvania, Wind Rose}

WIND ROSE PLOT:
Station #14778 - WILLIAMSPORT-LYCOMING /COUNTY, PA

DISPLAY:
Wind Speed
Direction (blowing from)



DATA PERIOD: **1984 1985 1986 1987 1988 1989 1990 1991 1992** **Jan 1 - Dec 31** **00:00 - 23:00**	COMPANY NAME: **AREVA NP**
CALM WINDS: **14.32%**	TOTAL COUNT: **78912 hrs.**
AVG. WIND SPEED: **3.44 m/s**	DATE: **2/24/2008**

Figure 2.3-37 {BBNPP 33’ (10-m) Annual Precipitation Wind Rose}

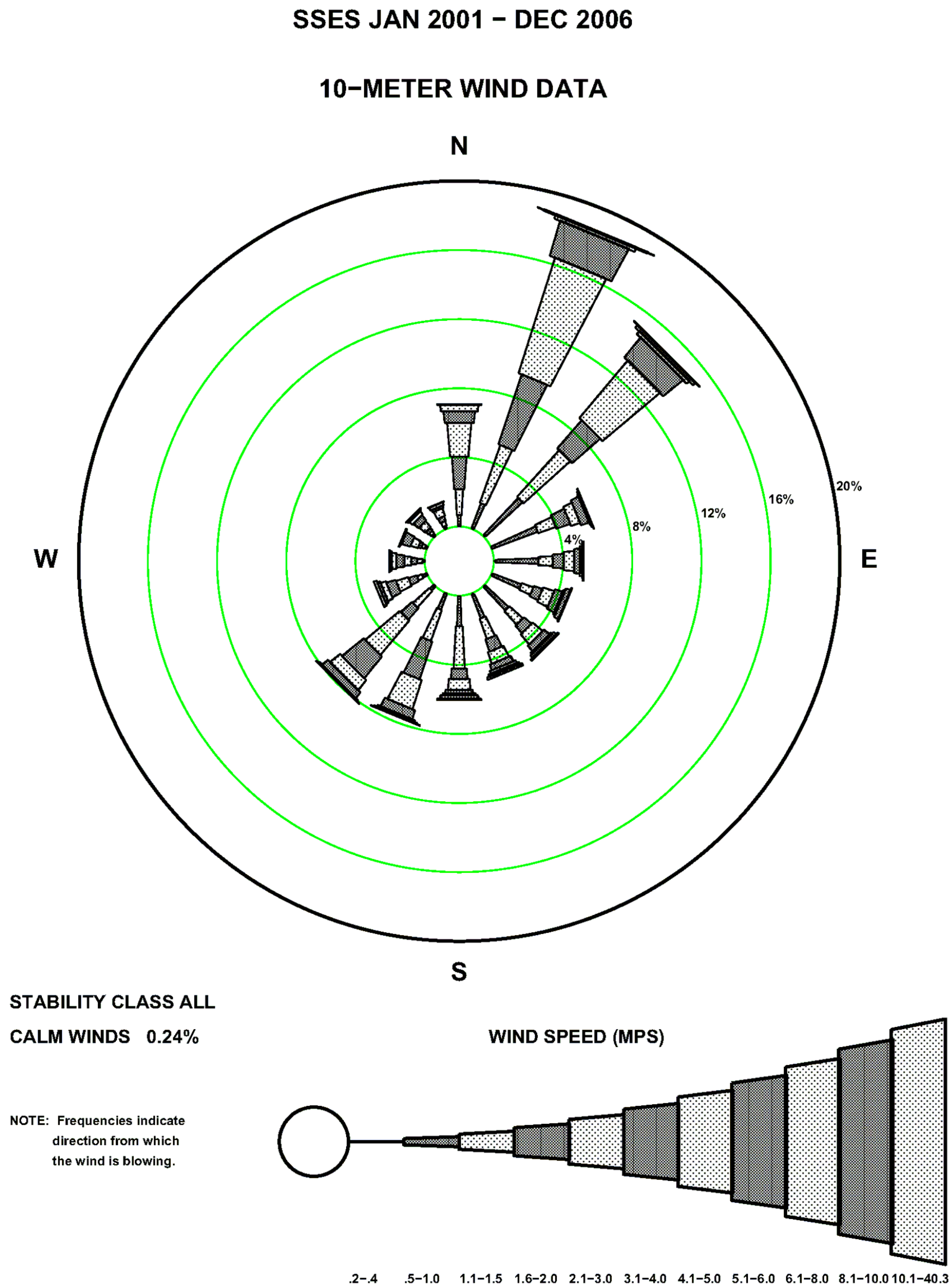


Figure 2.3-38 {BBNPP 197' (60-m) Annual Precipitation Wind Rose}

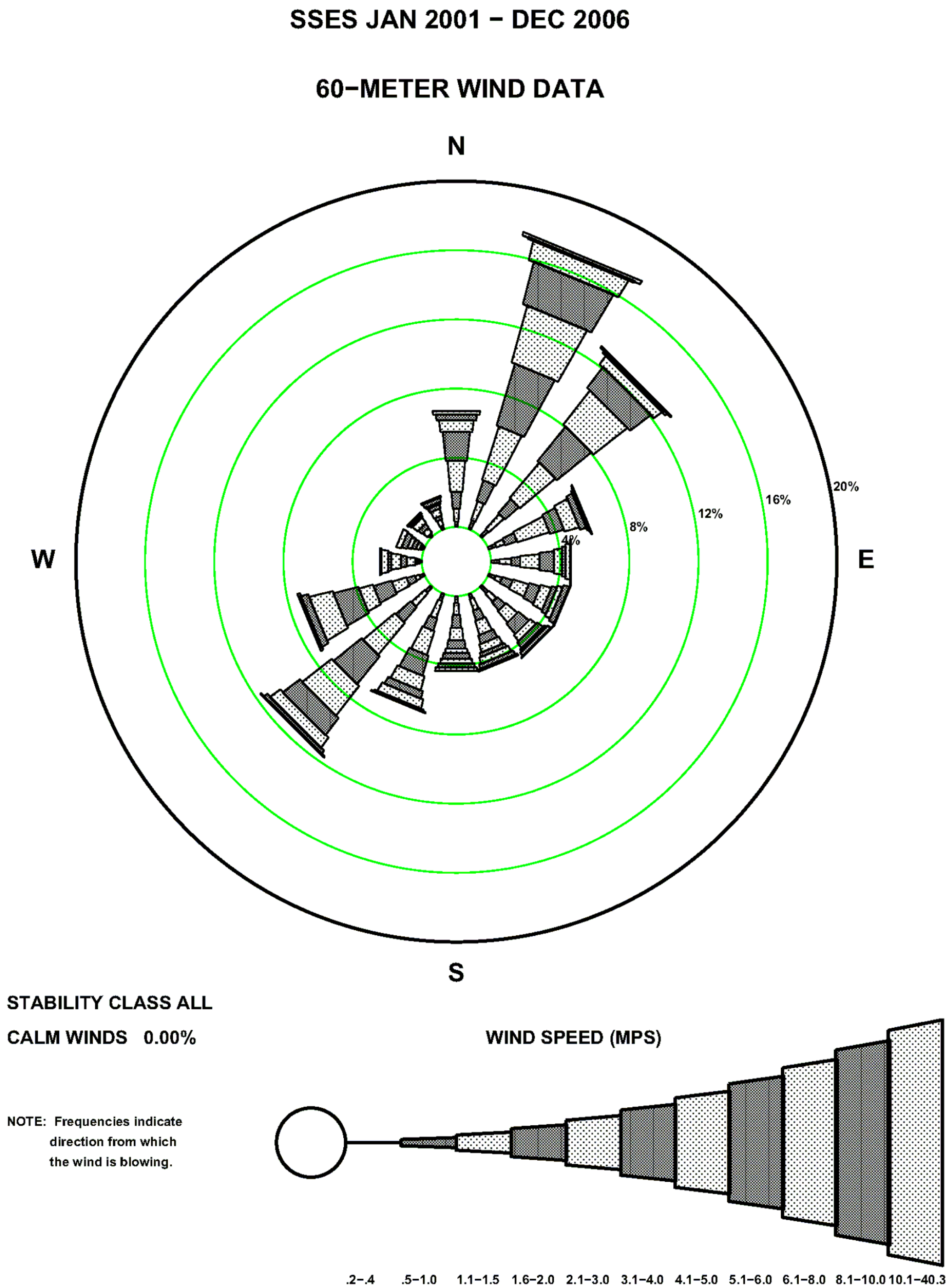


Figure 2.3-39 {BBNPP 33' (10-m) January Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

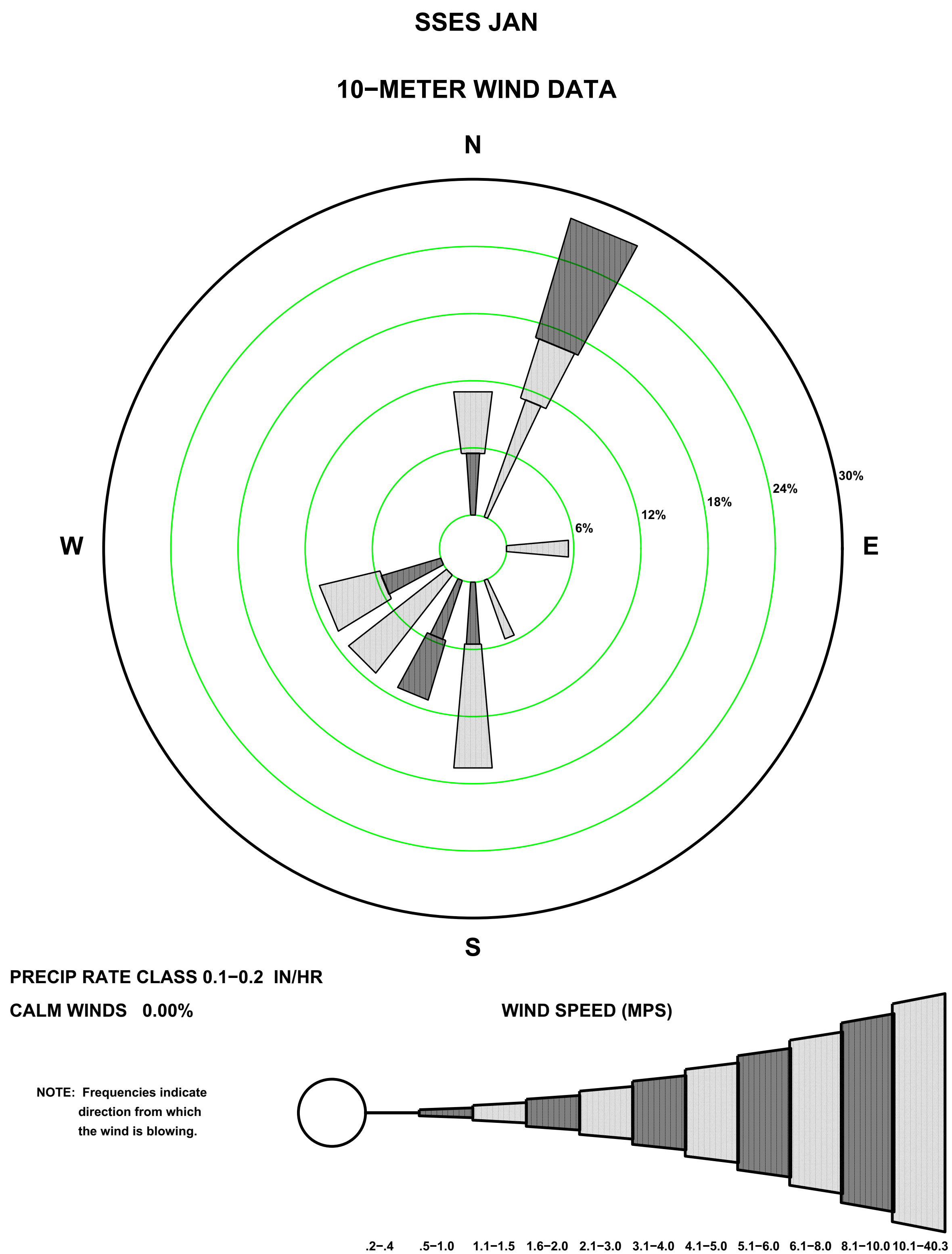


Figure 2.3-40 {BBNPP 33' (10-m) February Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

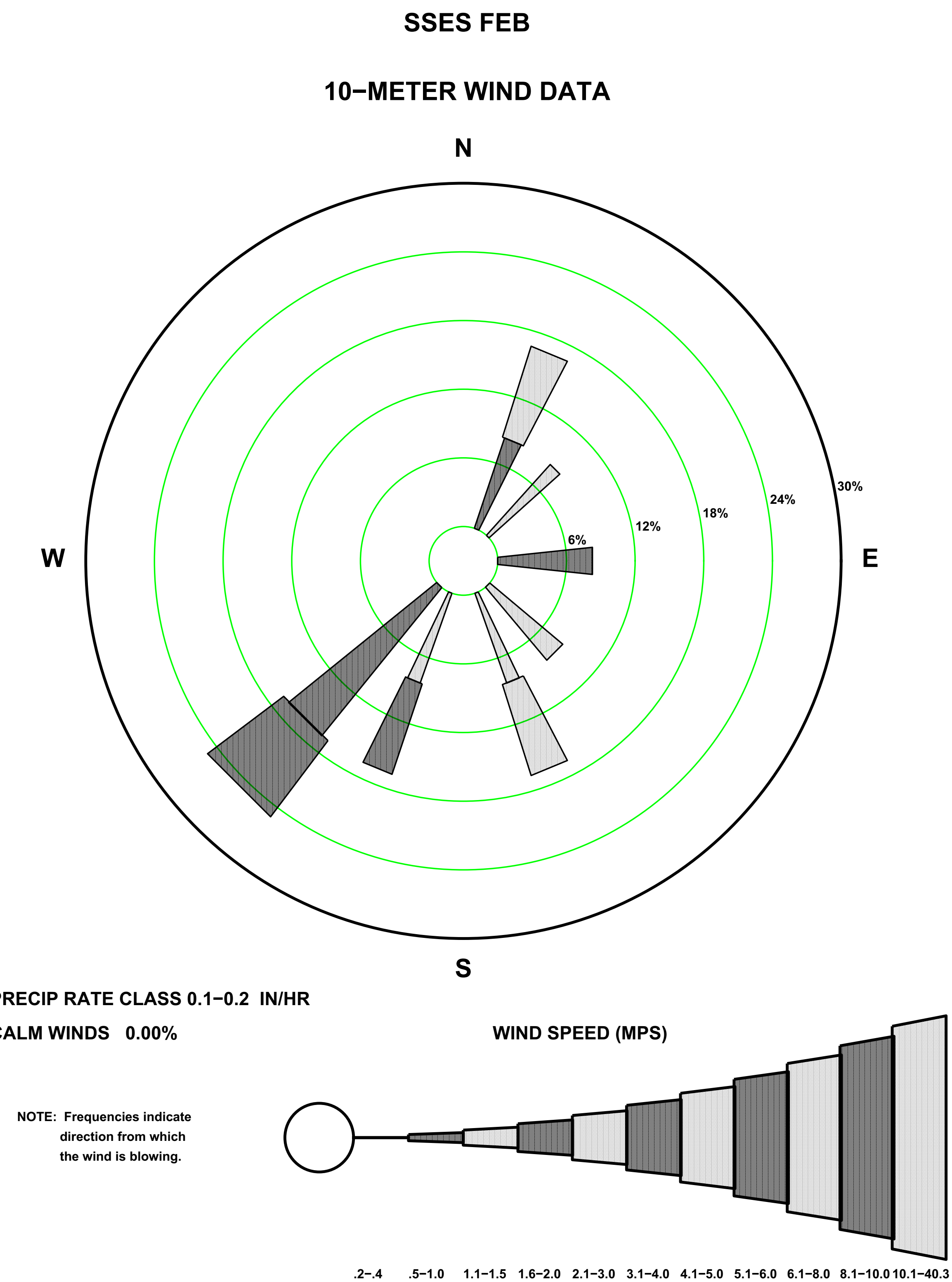


Figure 2.3-41 {BBNPP 33' (10-m) March Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

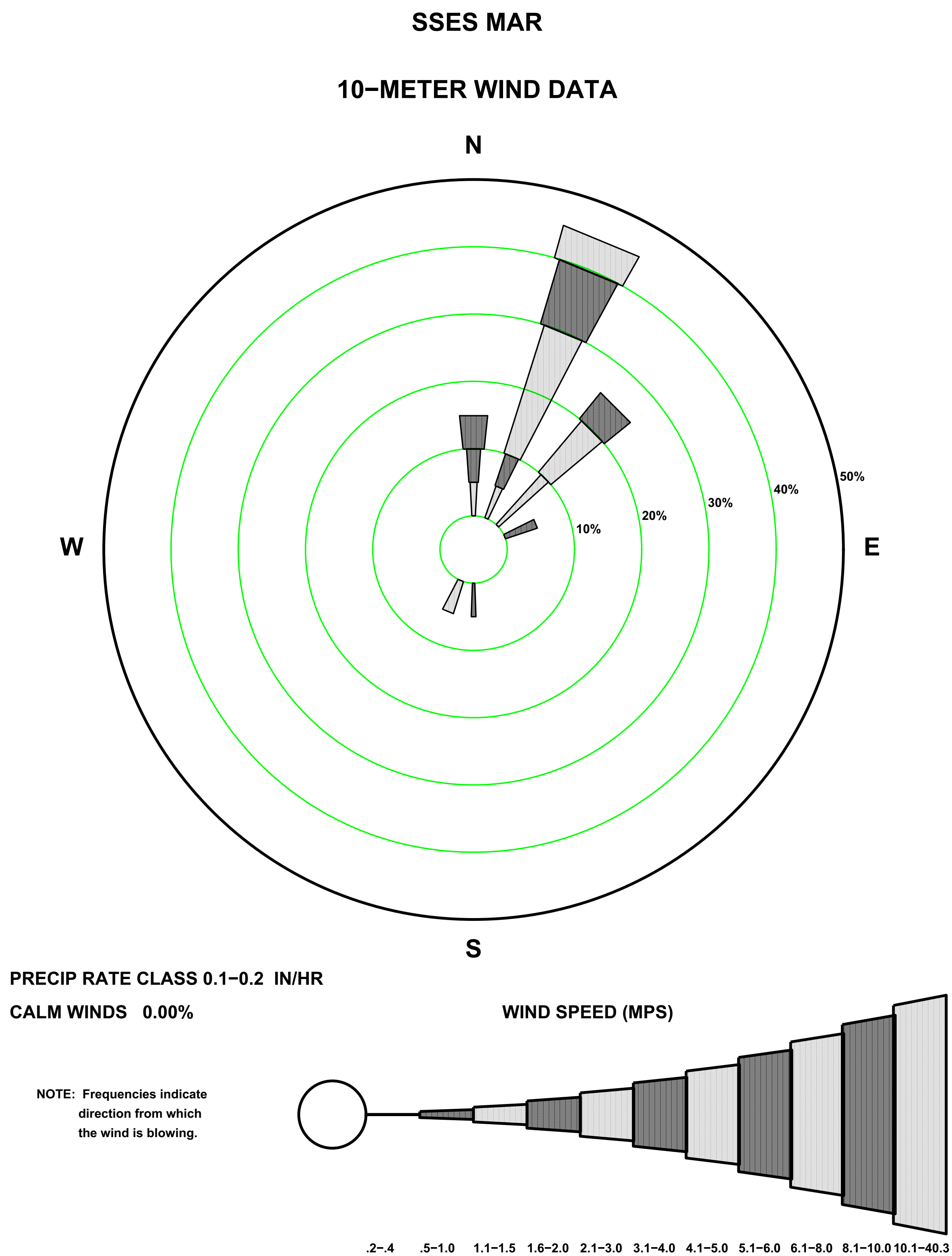


Figure 2.3-42 {BBNPP 33' (10-m) April Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

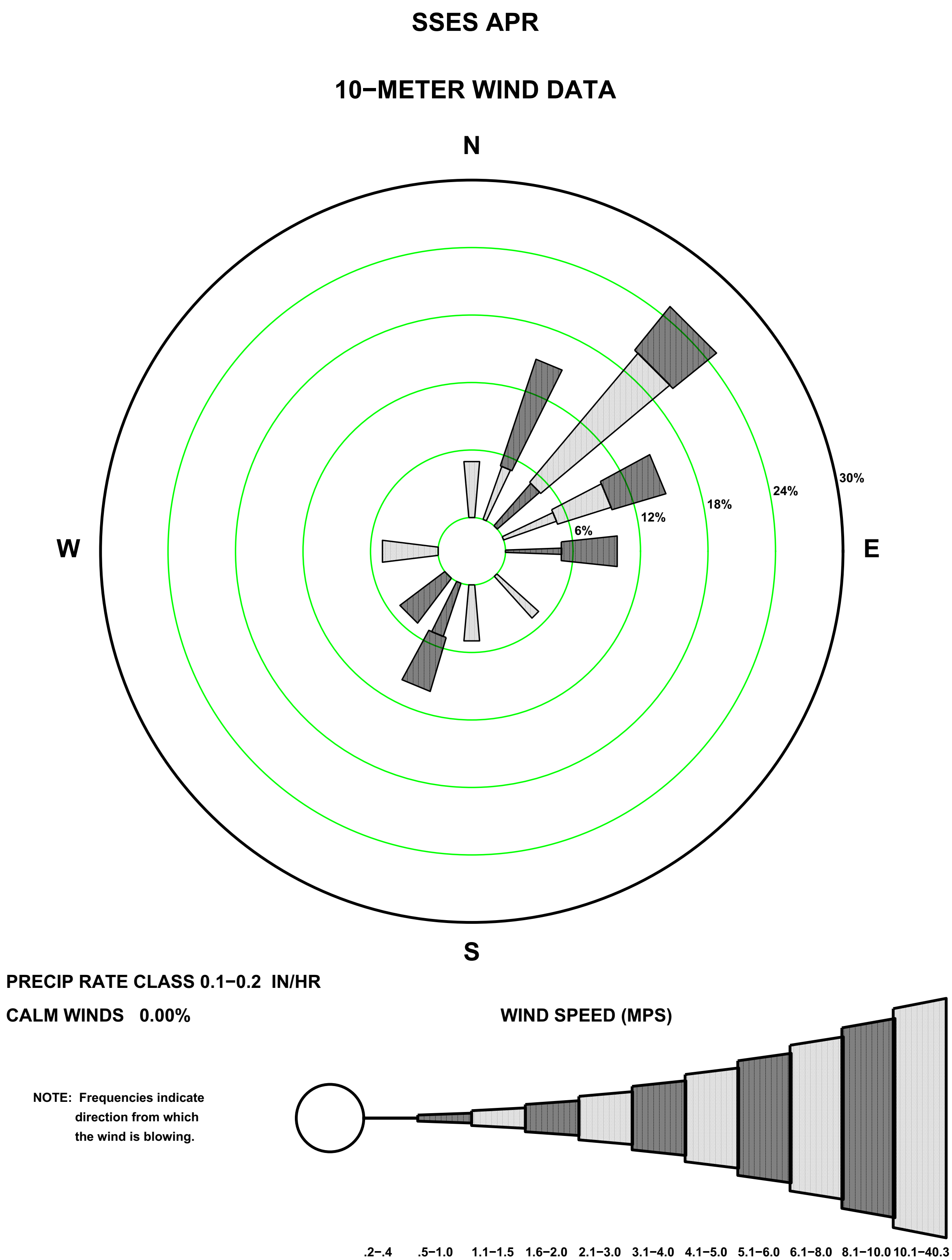


Figure 2.3-43 {BBNPP 33' (10-m) May Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

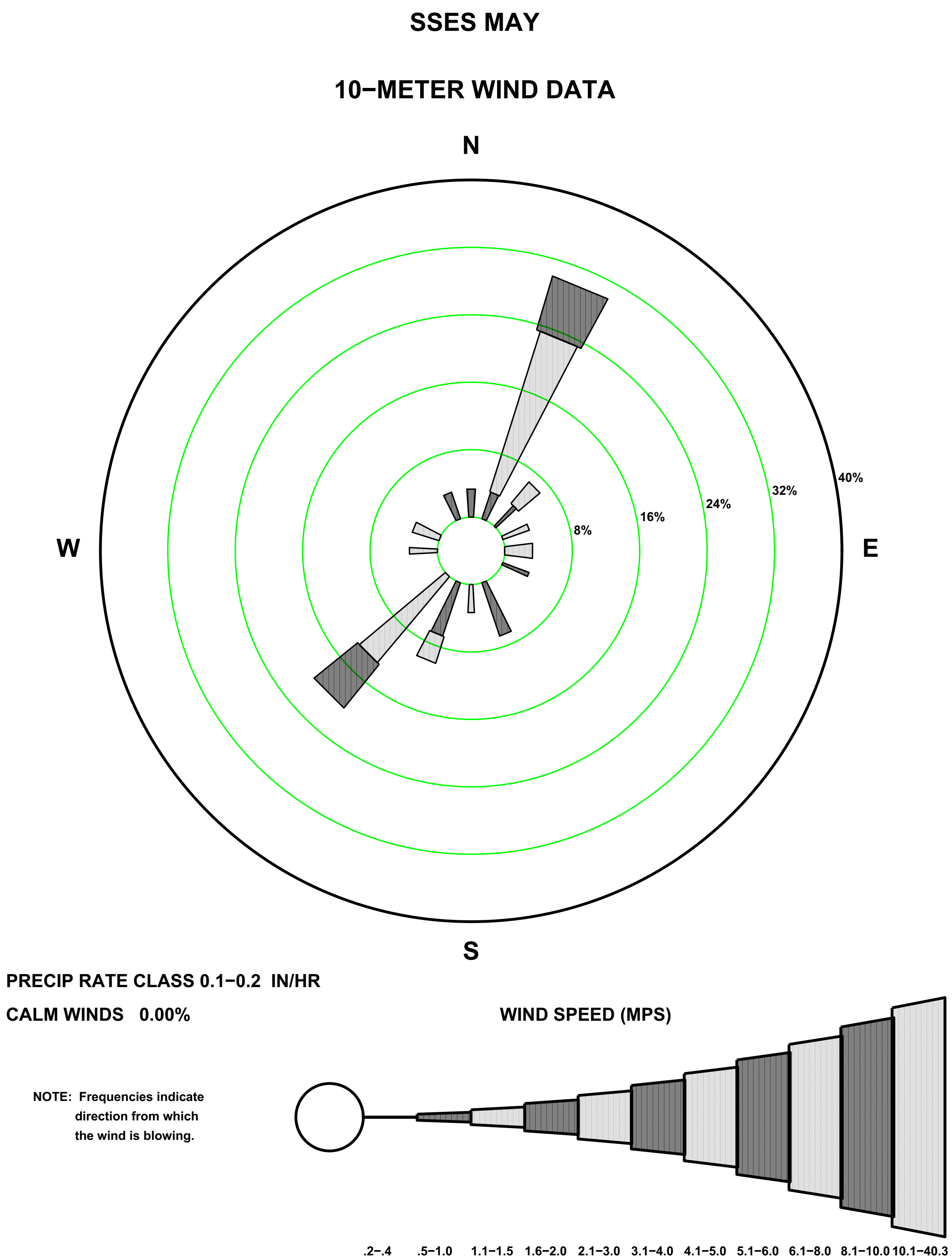


Figure 2.3-44 {BBNPP 33' (10-m) June Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

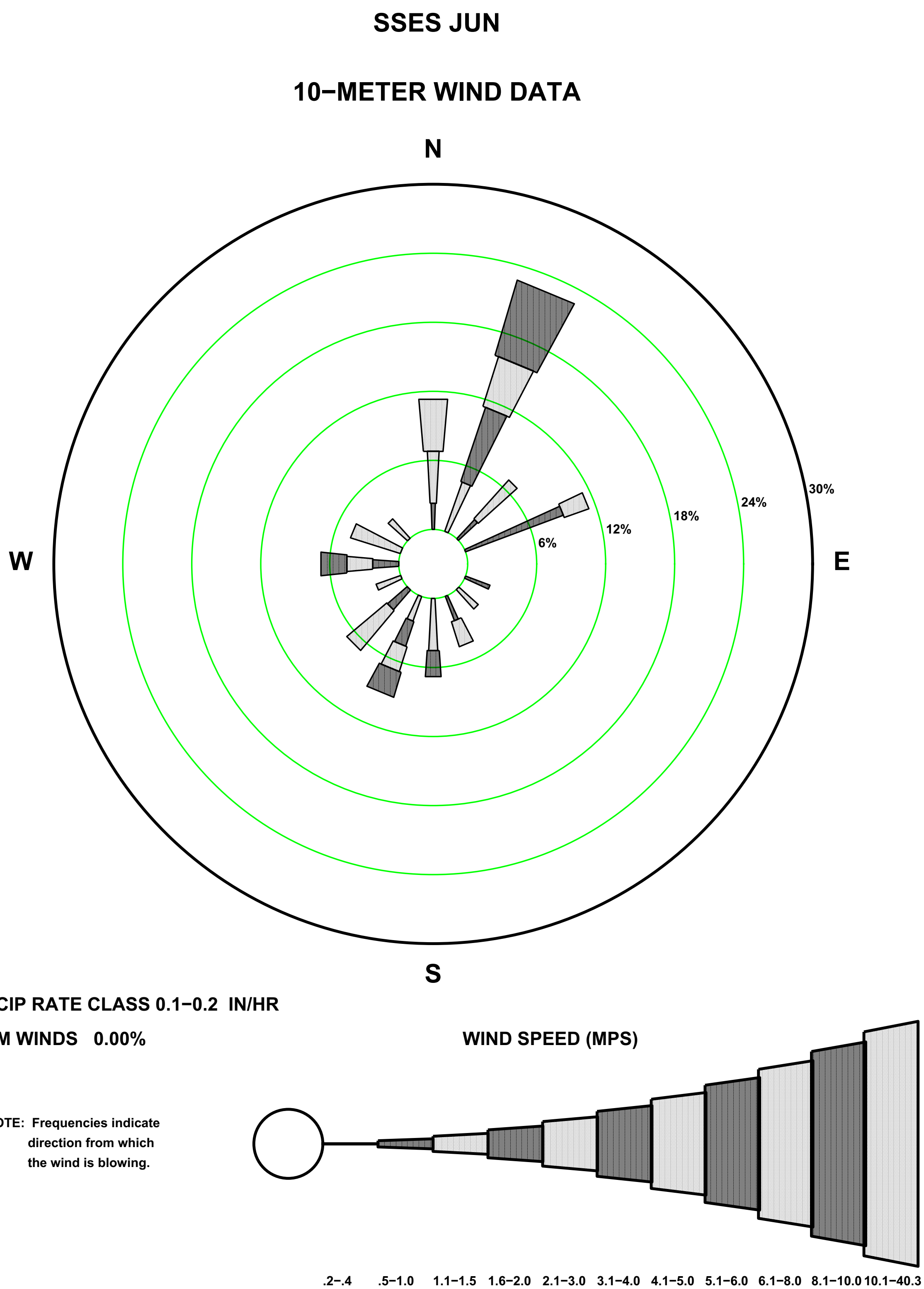


Figure 2.3-45 {BBNPP 33' (10-m) July Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

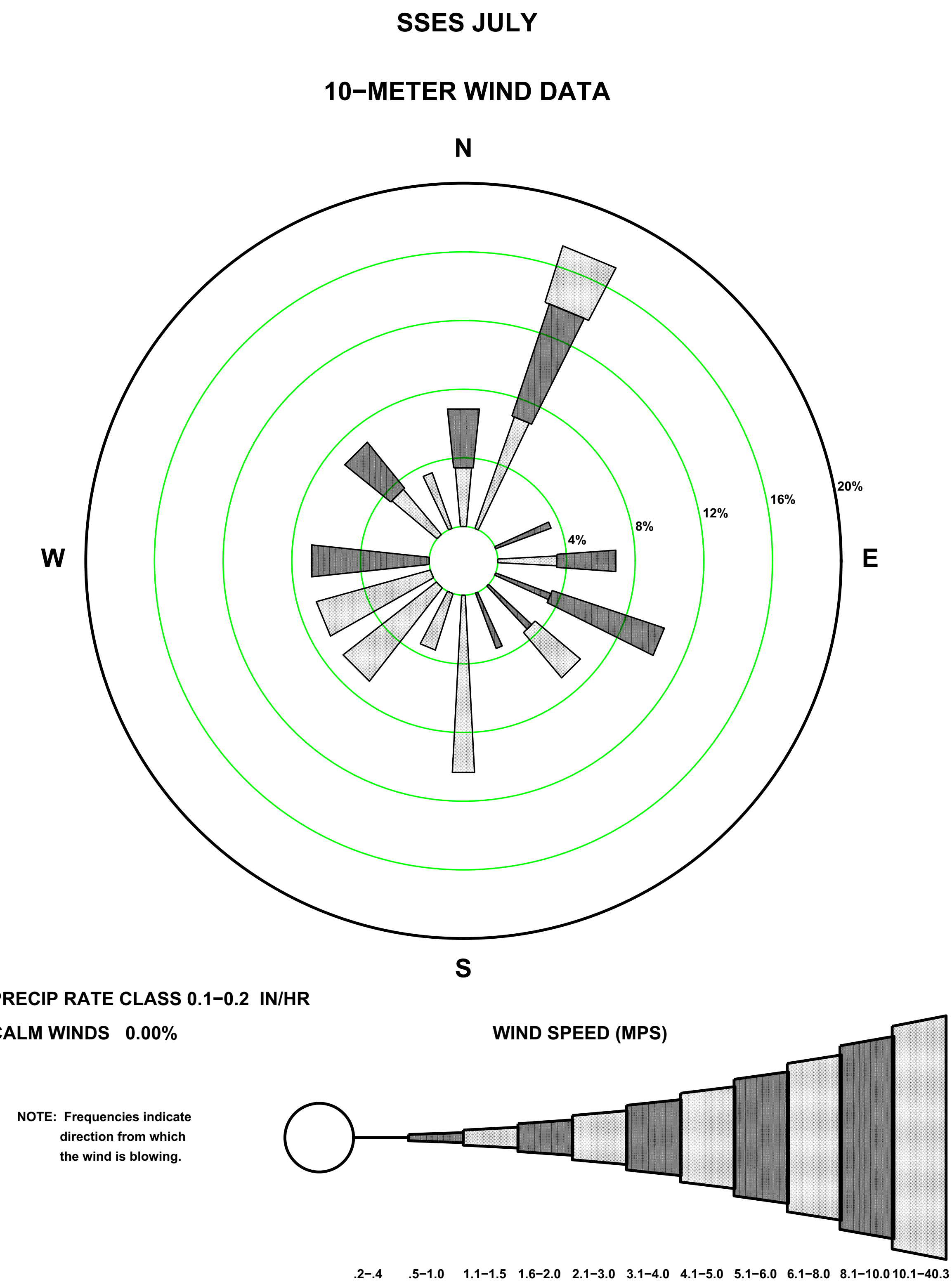


Figure 2.3-46 {BBNPP 33' (10-m) August Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

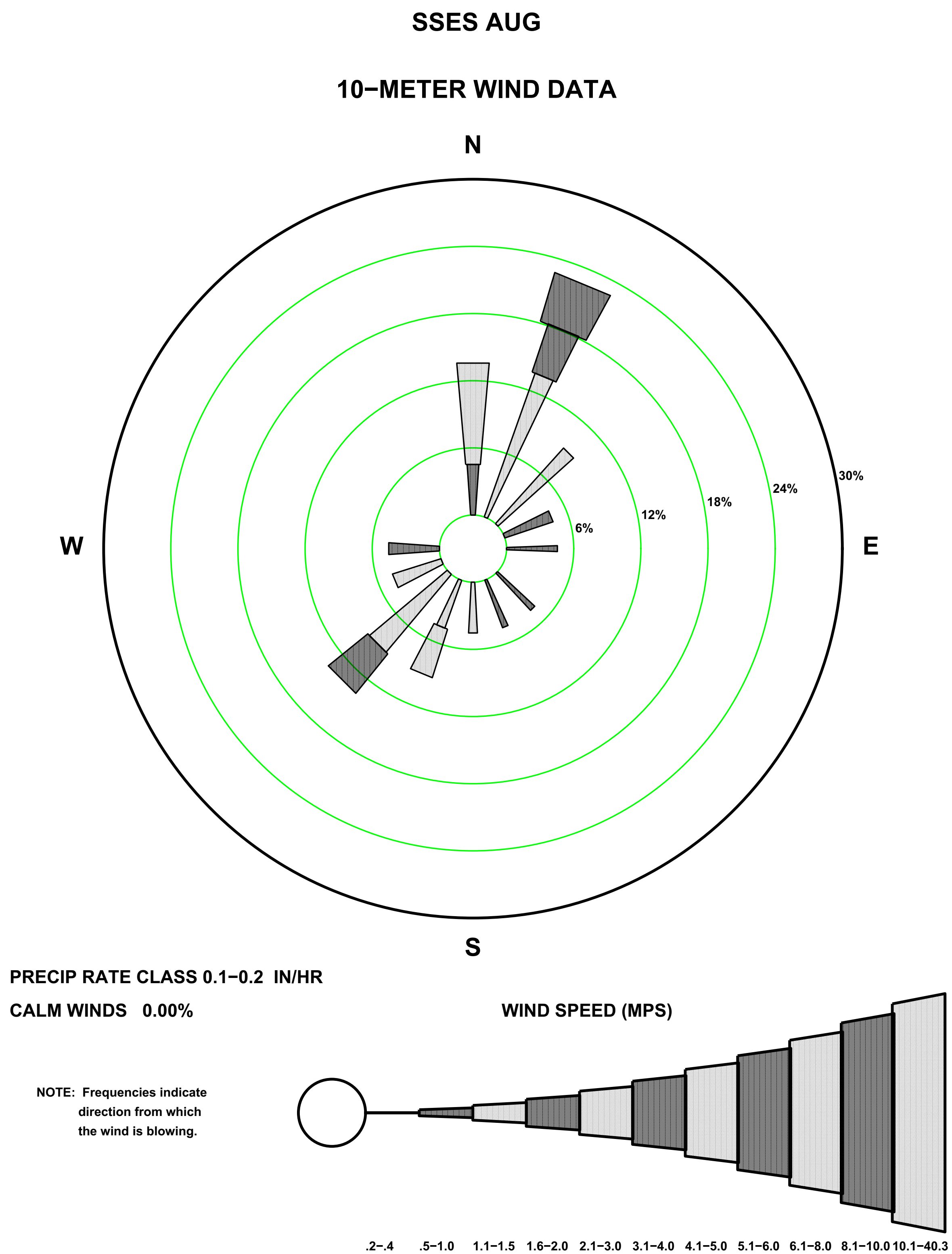


Figure 2.3-47 {BBNPP 33’ (10-m) September Precipitation Wind Rose for Rate Class 0.1-0.2 in⁄hr}

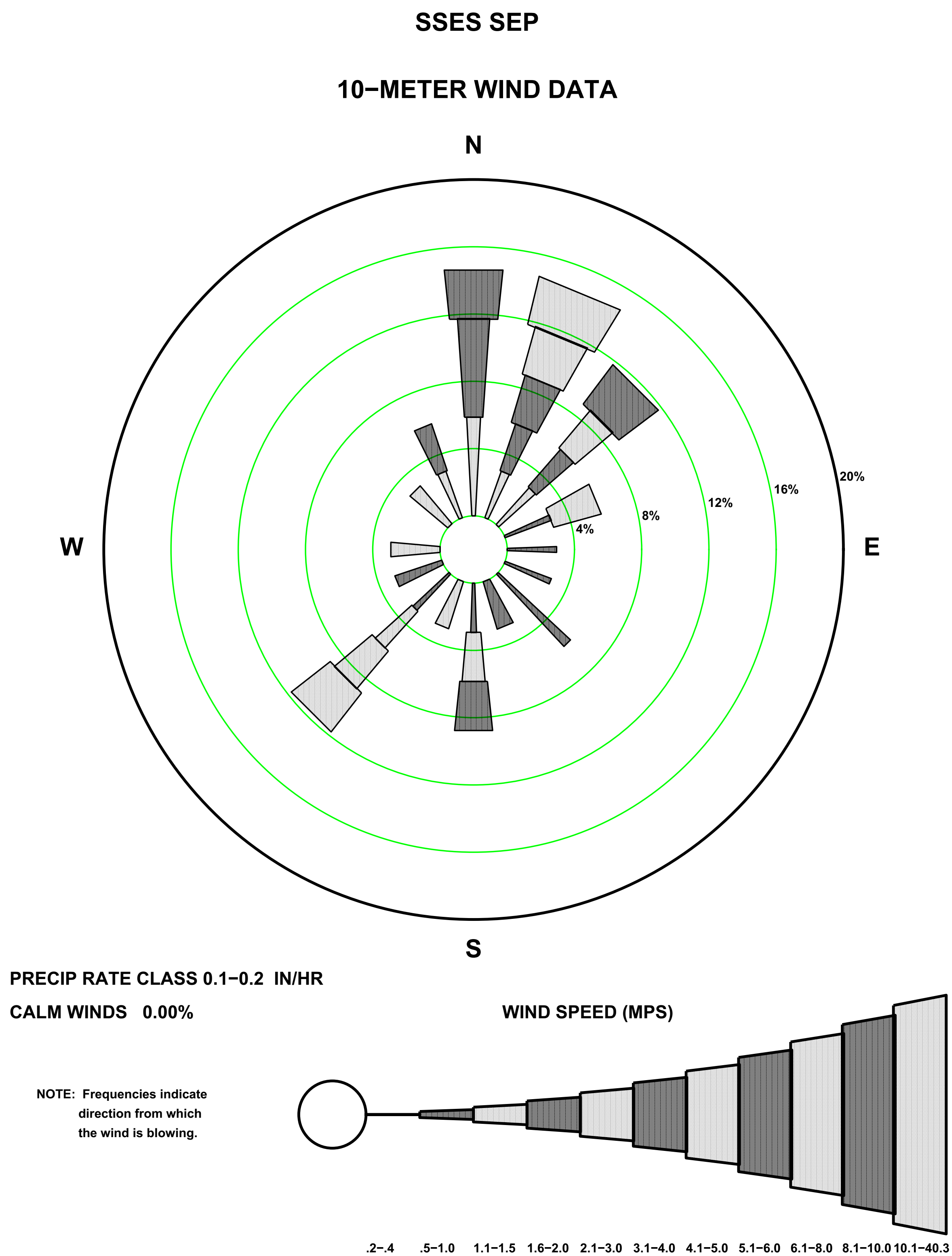


Figure 2.3-48 {BBNPP 33' (10-m) October Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

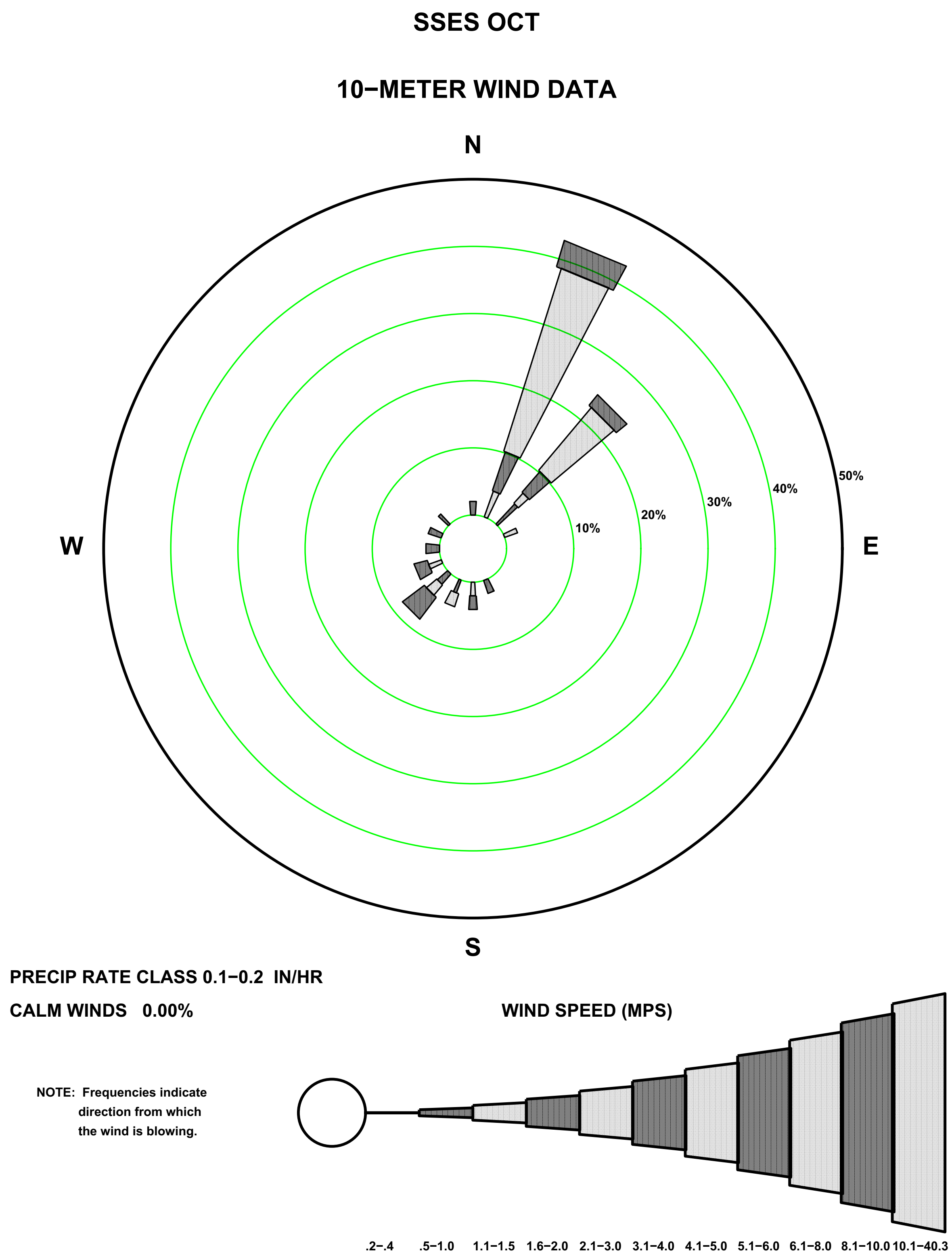


Figure 2.3-49 {BBNPP 33’ (10-m) November Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

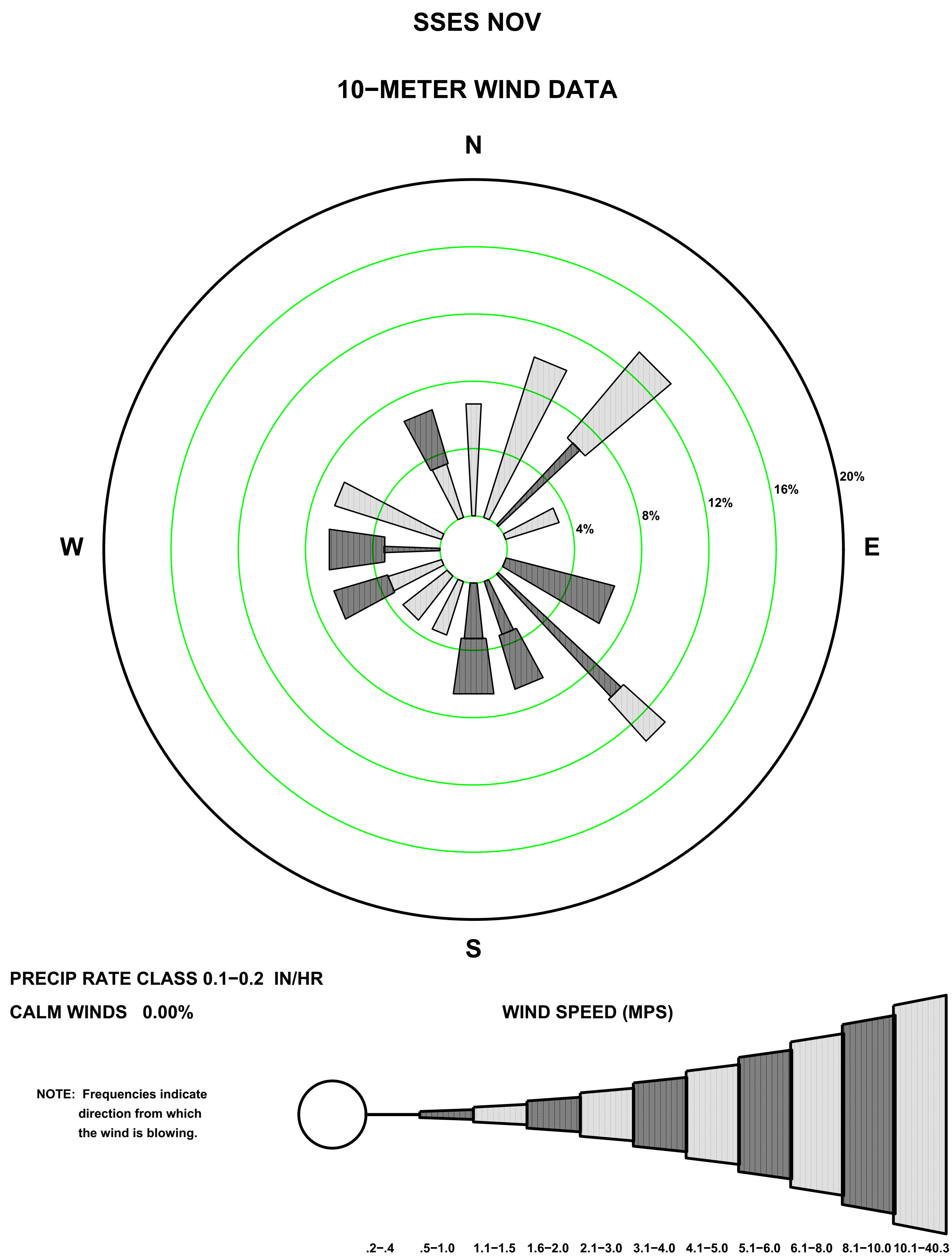


Figure 2.3-50 {BBNPP 33' (10-m) December Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

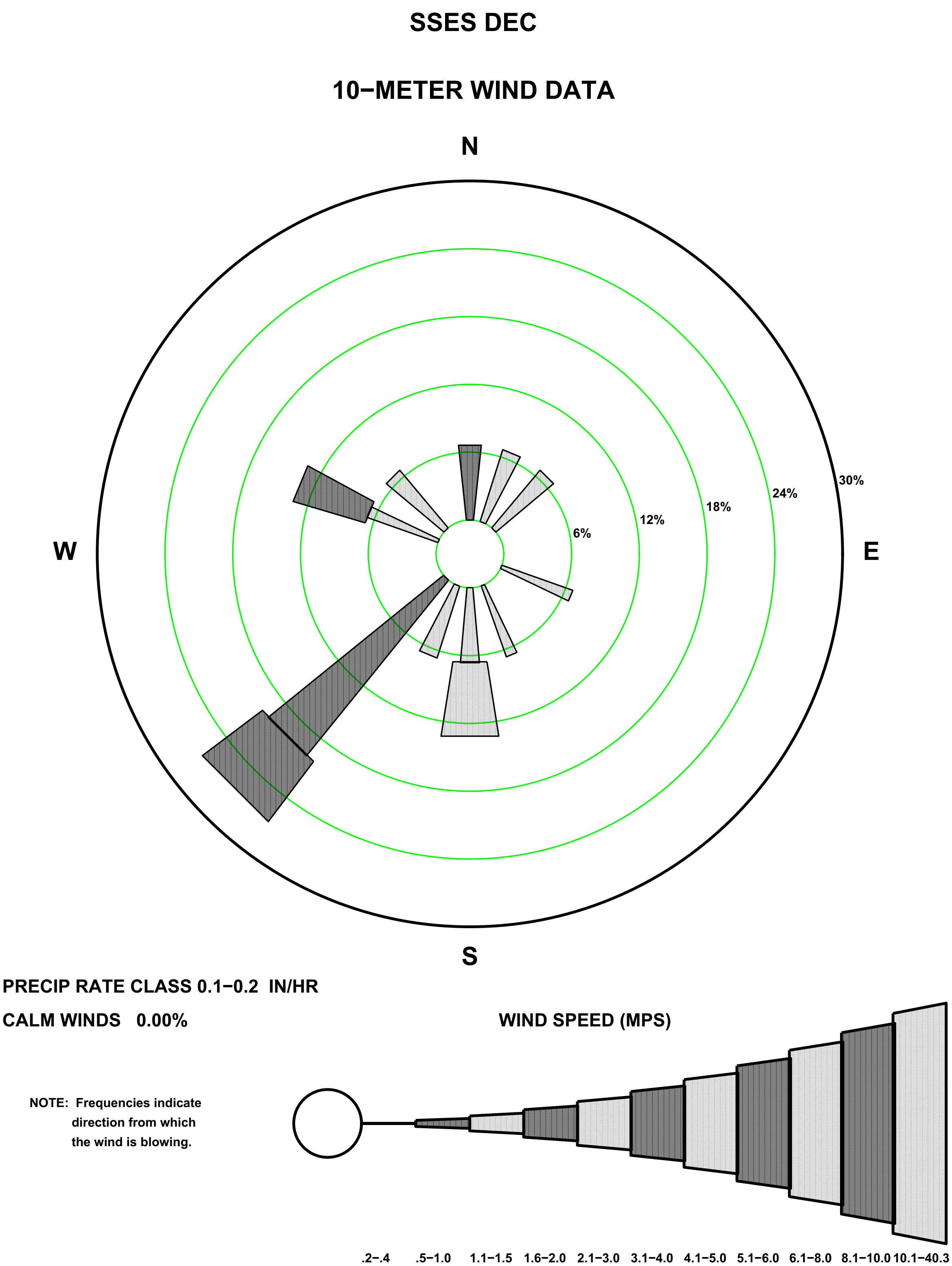


Figure 2.3-51 {BBNPP 197’ (60-m) January Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

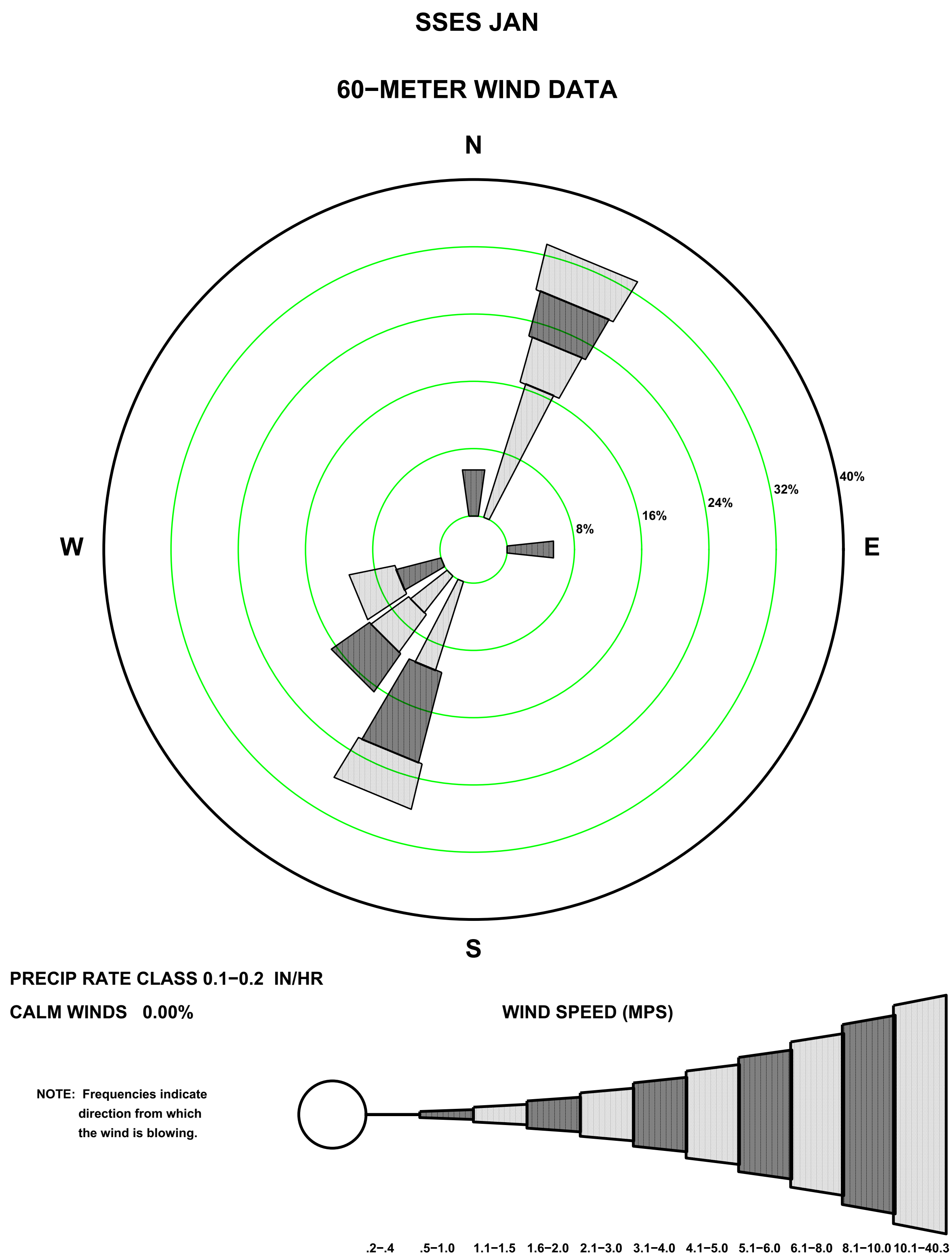


Figure 2.3-52 {BBNPP 197’ (60-m) February Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

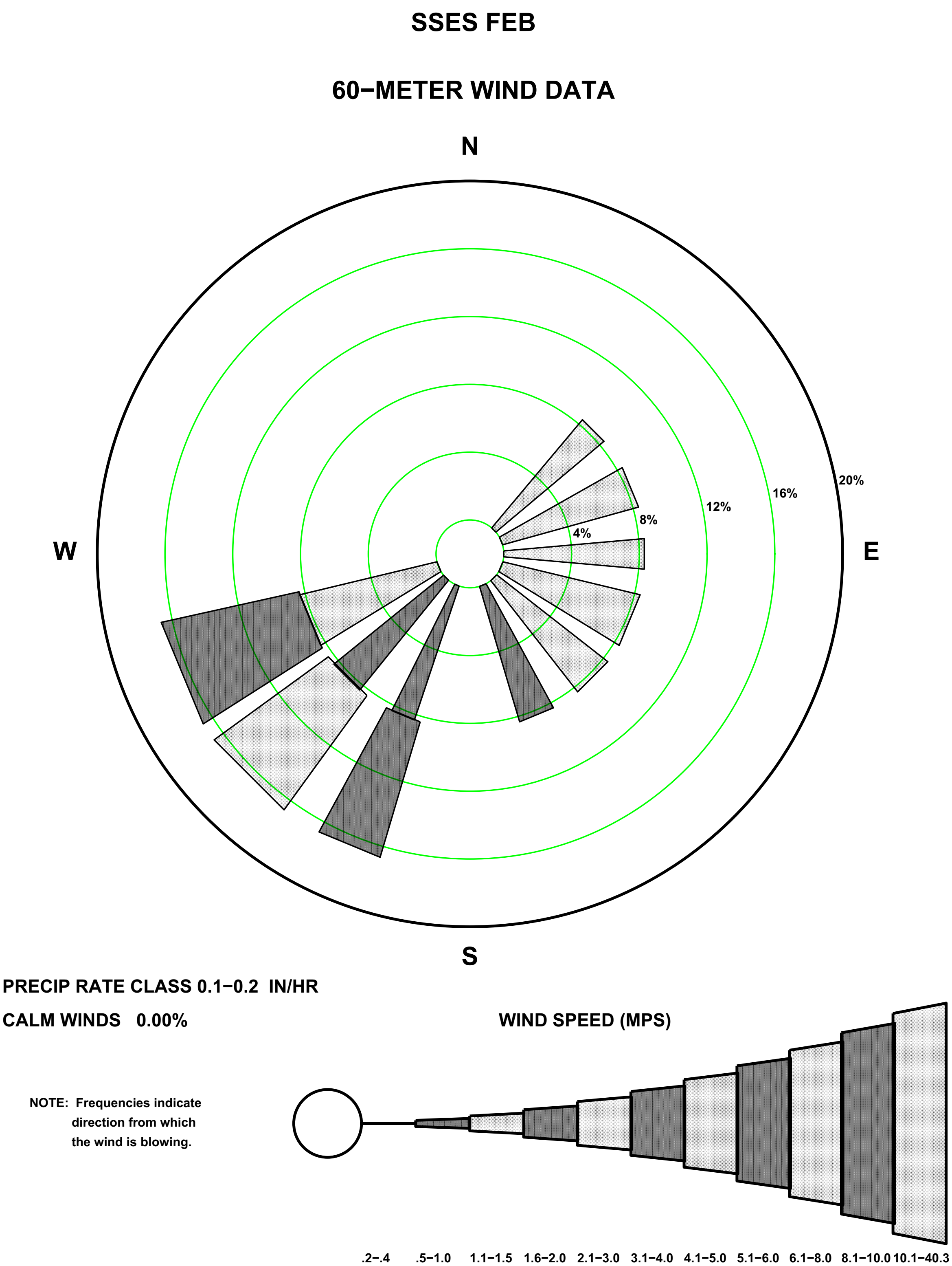


Figure 2.3-53 {BBNPP 197’ (60-m) March Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

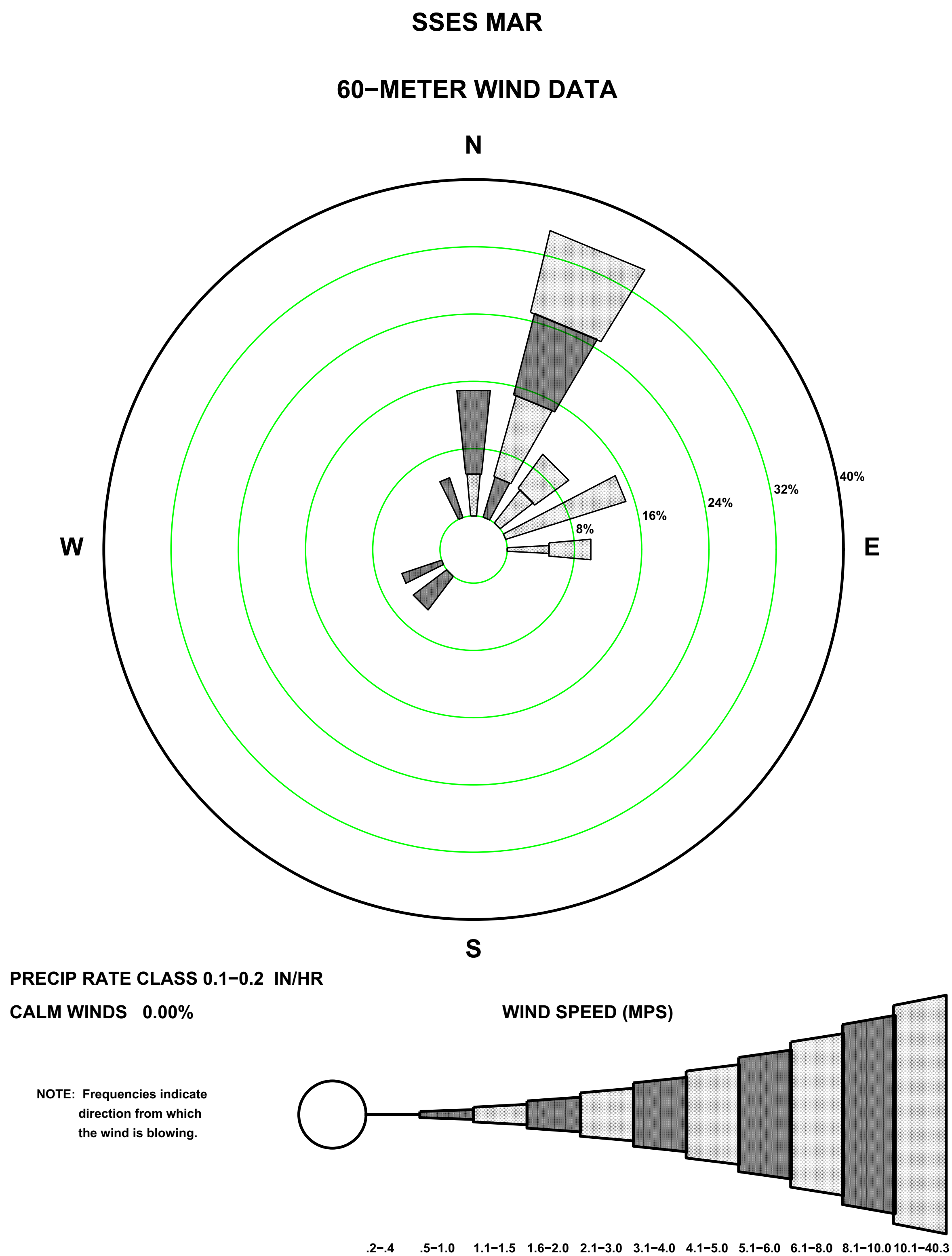


Figure 2.3-54 {BBNPP 197' (60-m) April Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

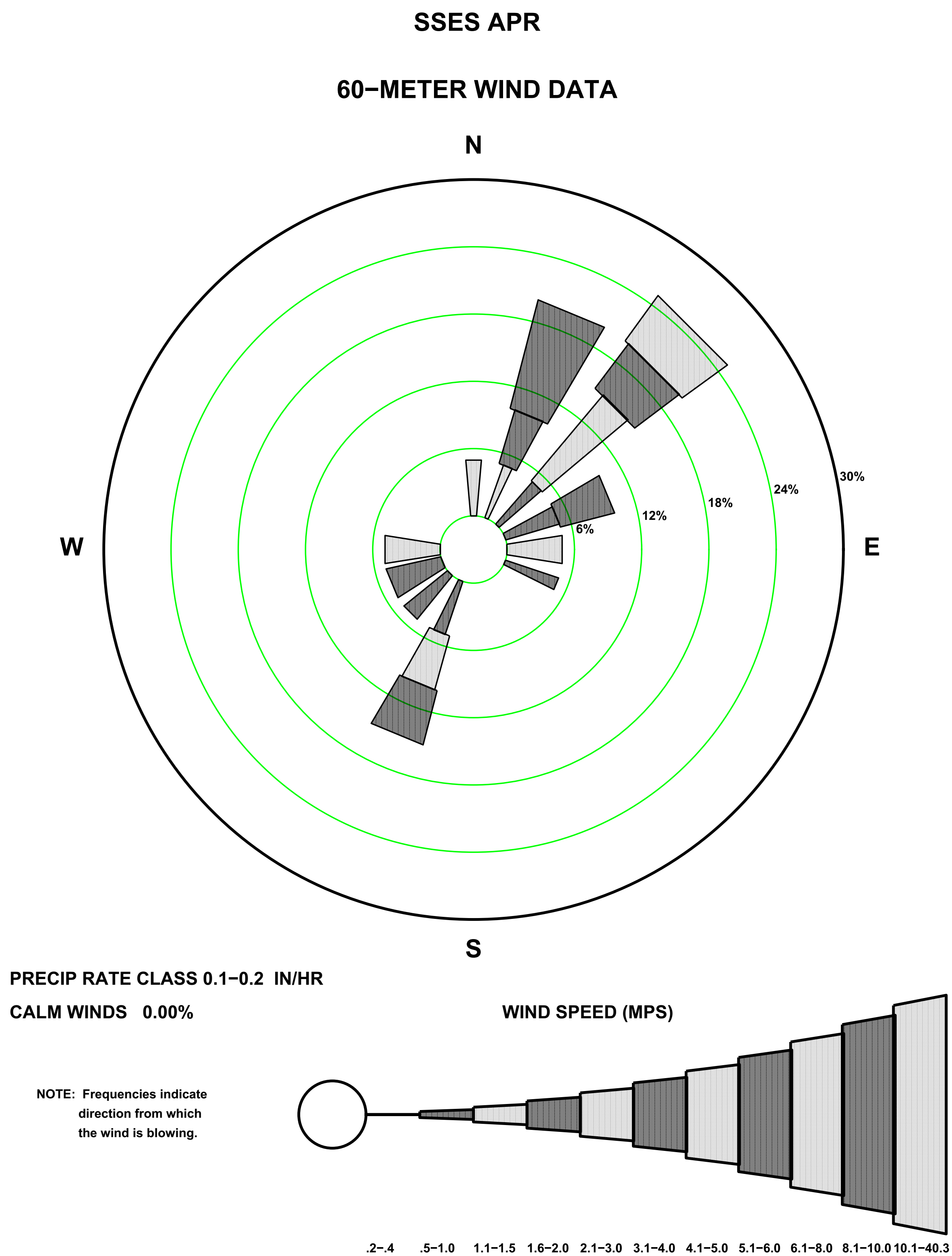


Figure 2.3-55 {BBNPP 197' (60-m) May Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

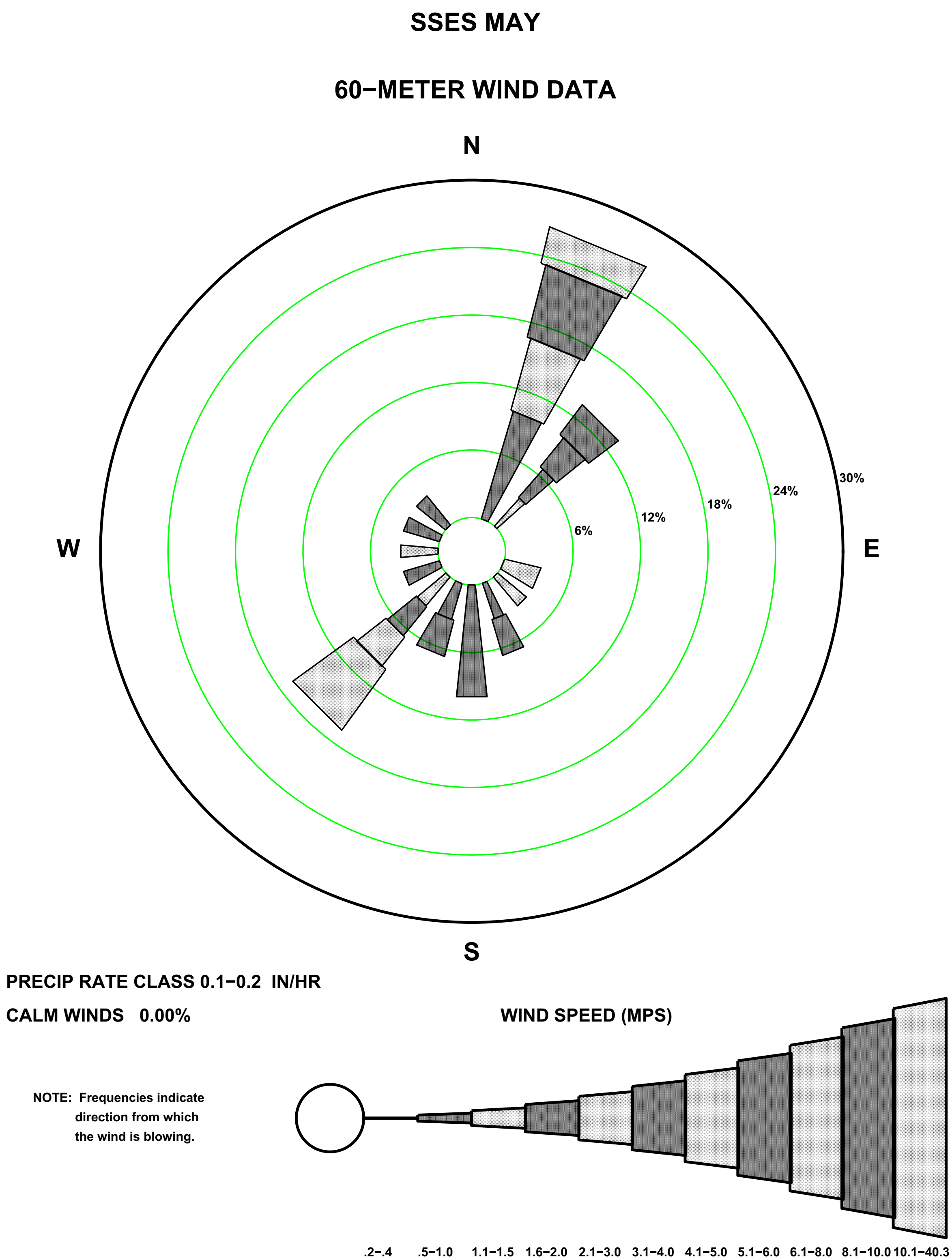


Figure 2.3-56 {BBNPP 197’ (60-m) June Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

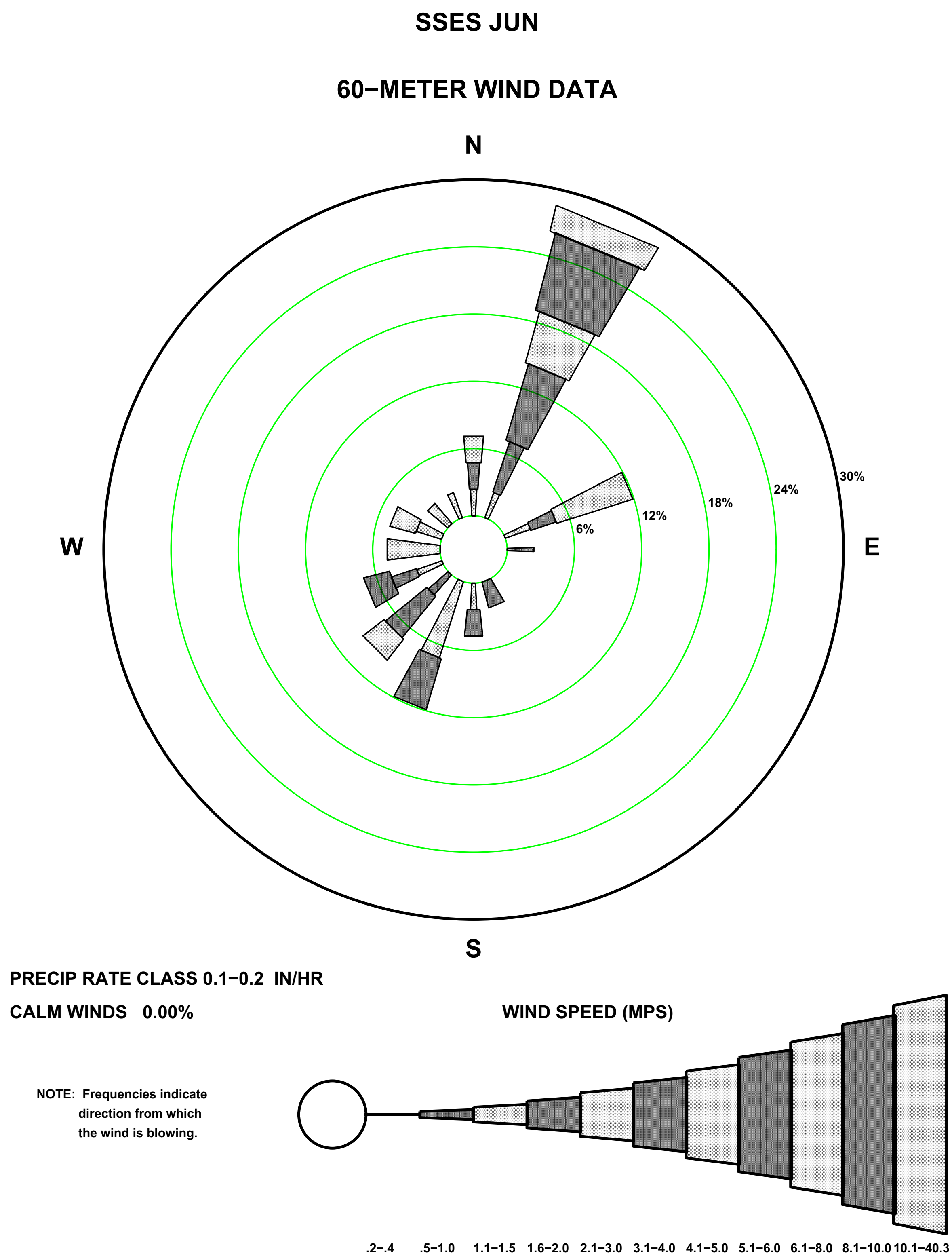


Figure 2.3-57 {BBNPP 197’ (60-m) July Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

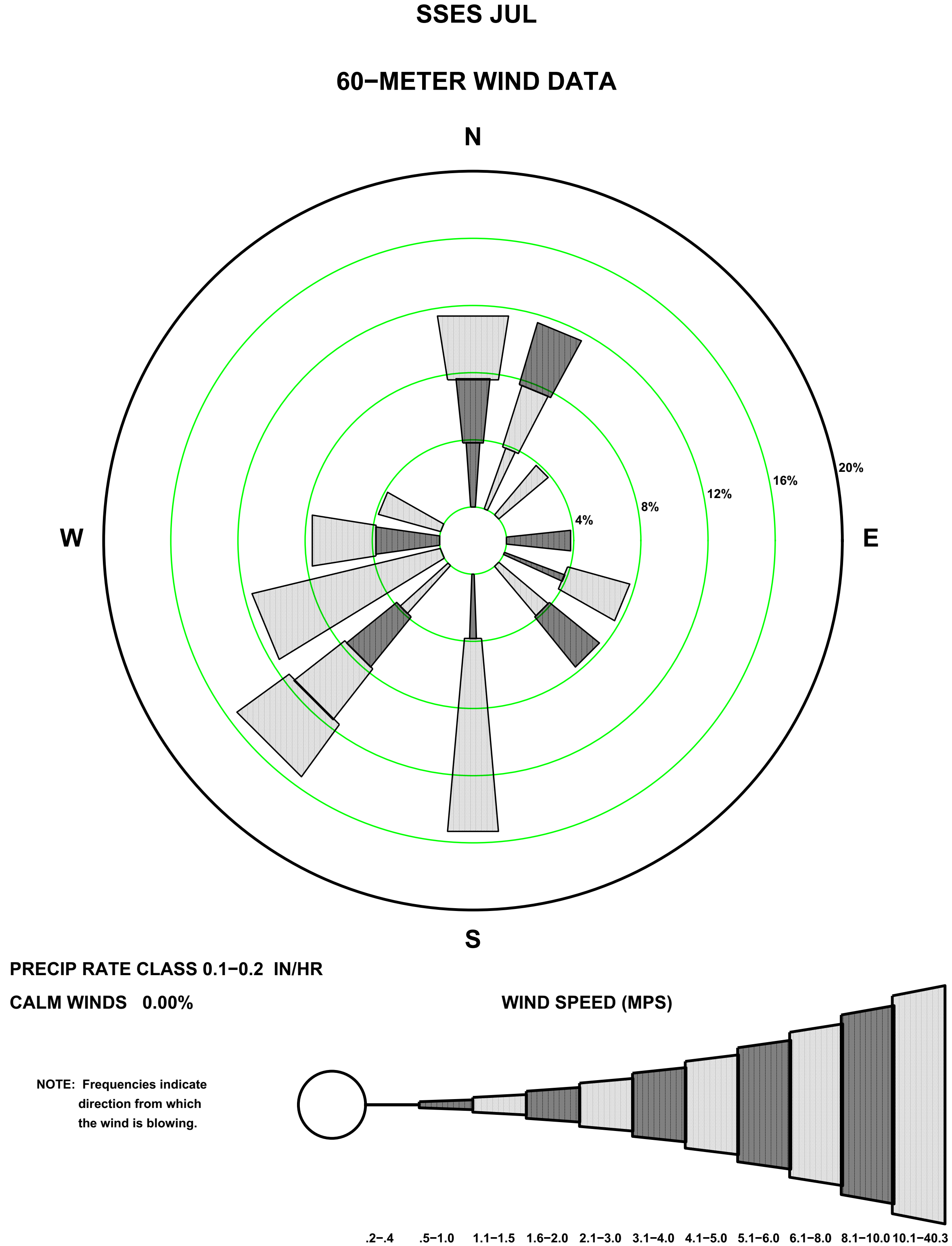


Figure 2.3-58 {BBNPP 197' (60-m) August Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

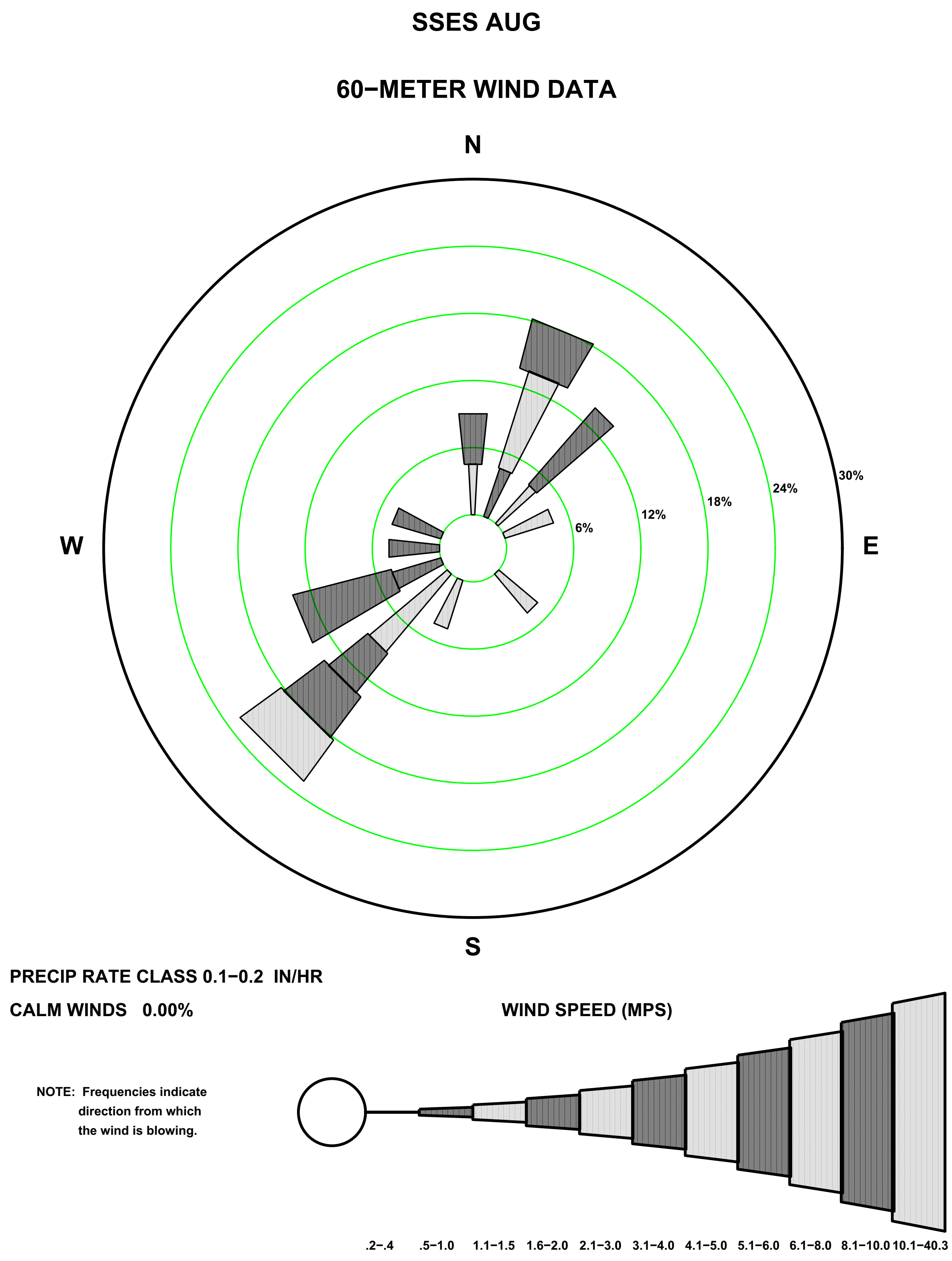


Figure 2.3-59 {BBNPP 197' (60-m) September Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

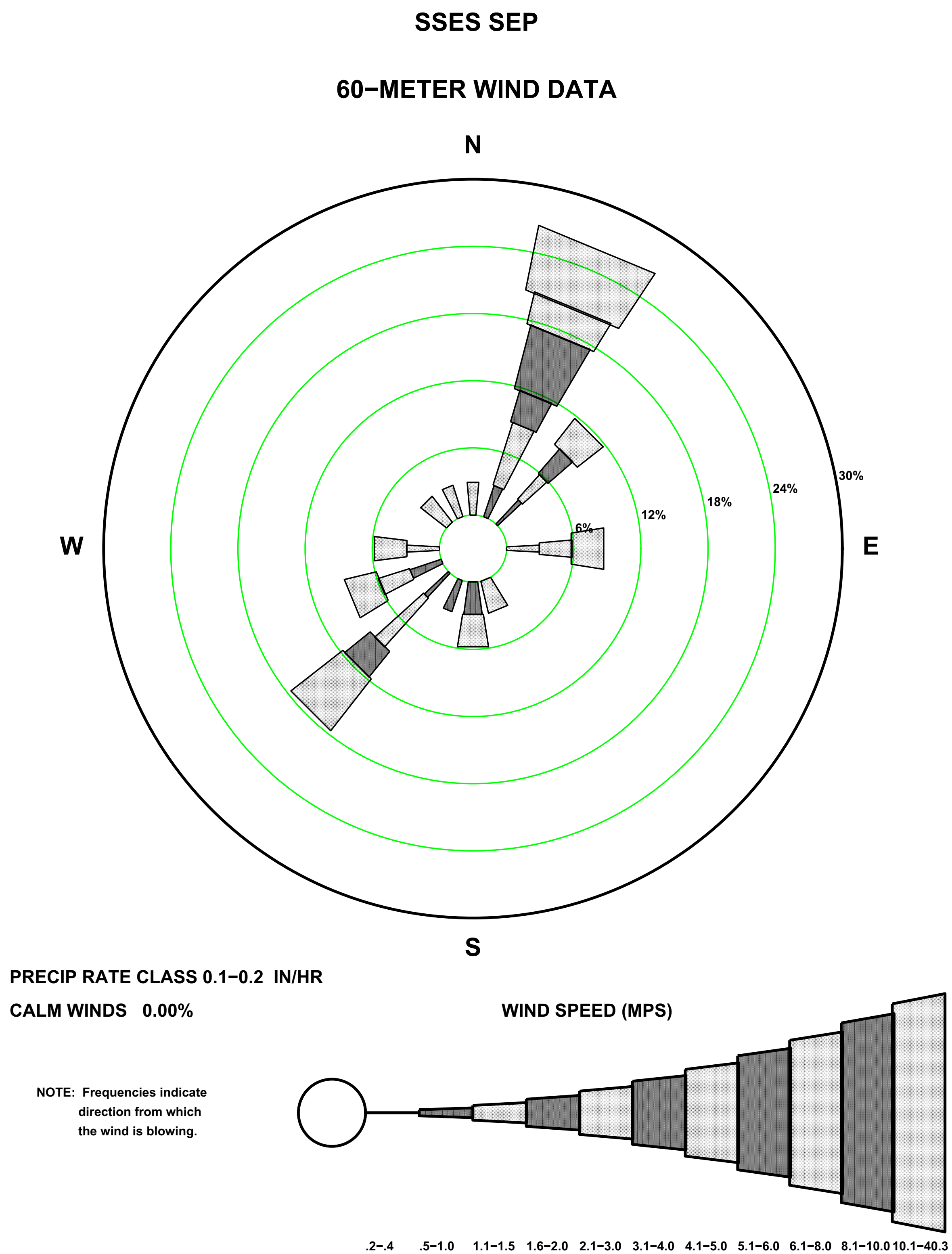


Figure 2.3-60 {BBNPP 197’ (60-m) October Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

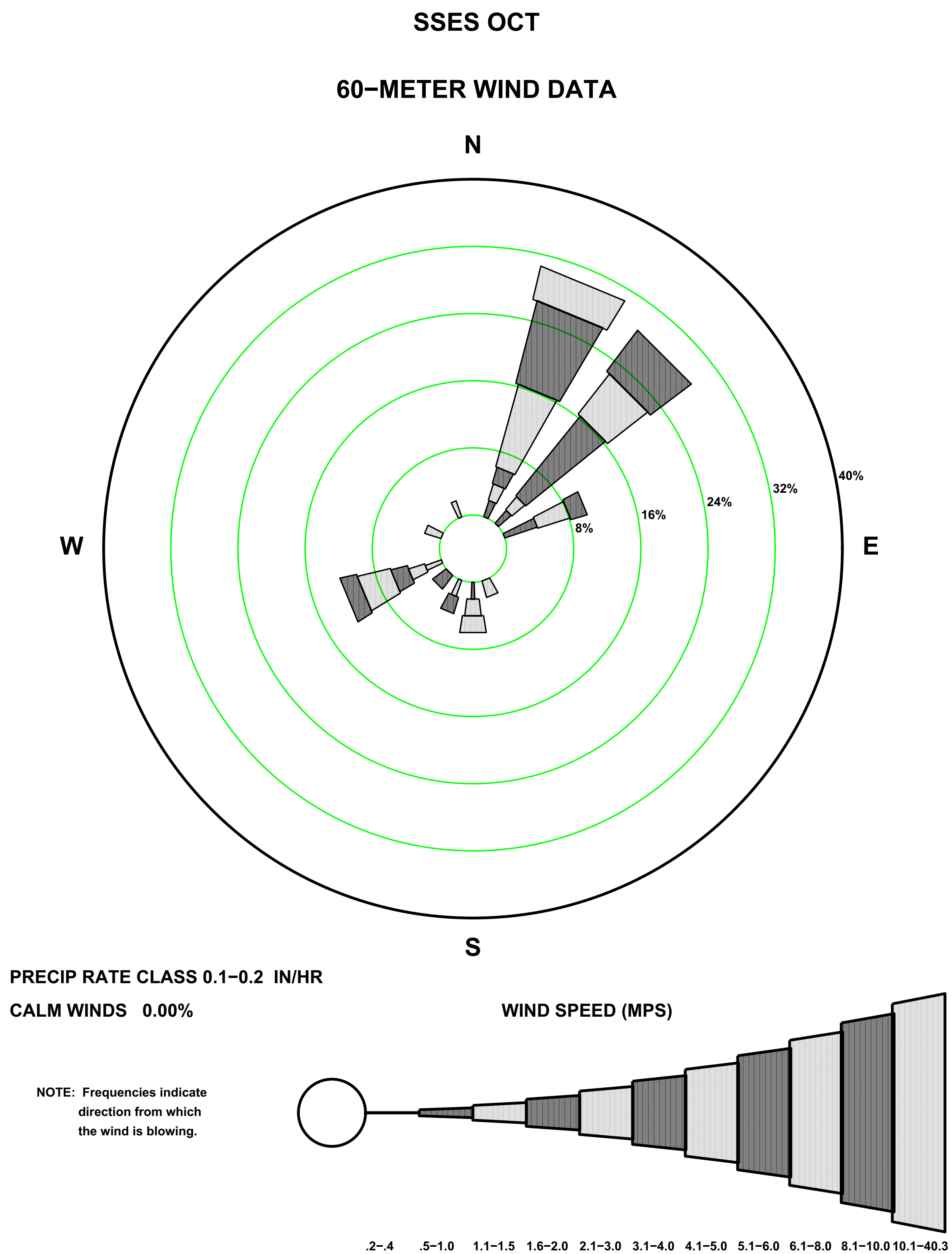


Figure 2.3-61 {BBNPP 197' (60-m) November Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

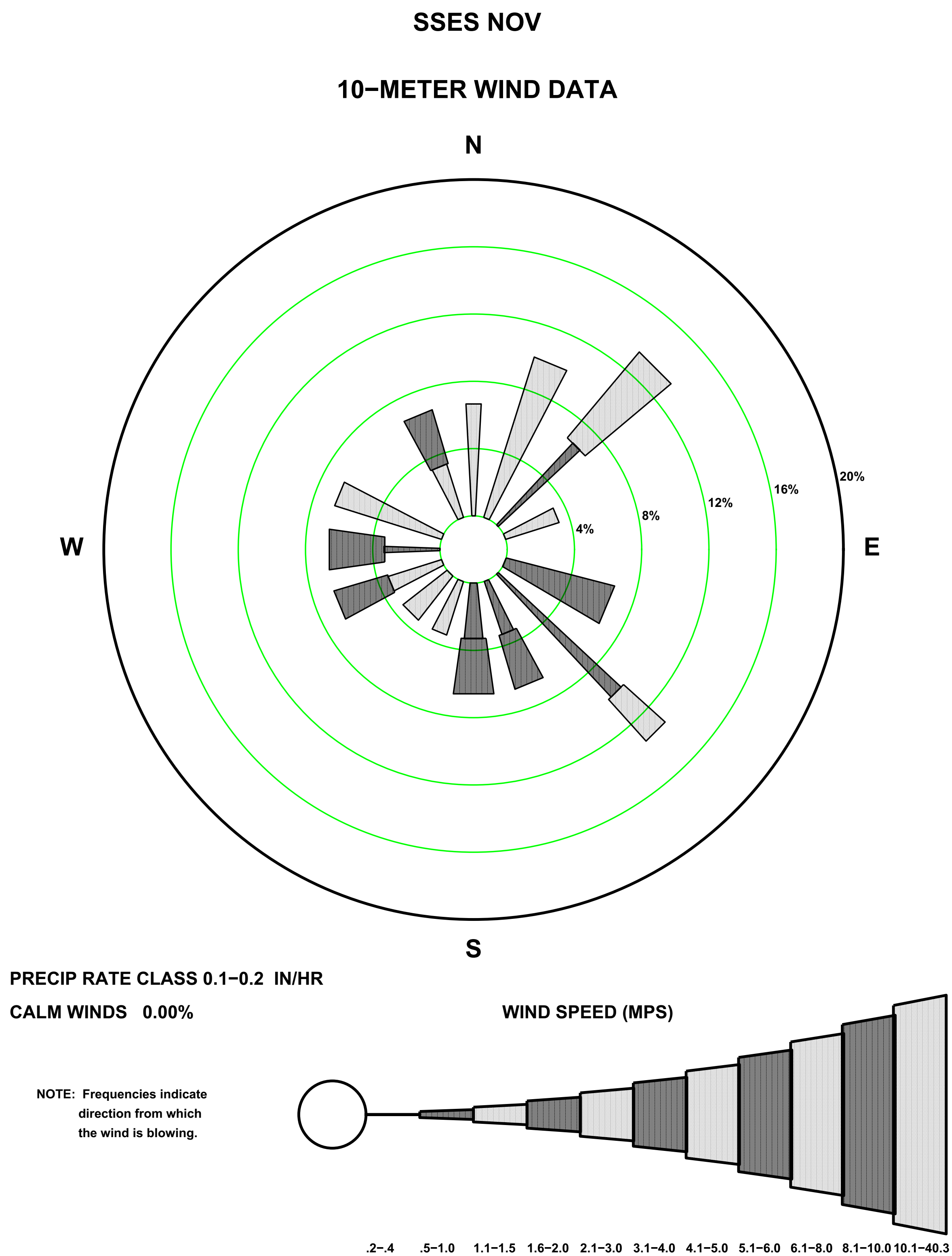


Figure 2.3-62 {BBNPP 197’ (60-m) December Precipitation Wind Rose for Rate Class 0.1-0.2 in/hr}

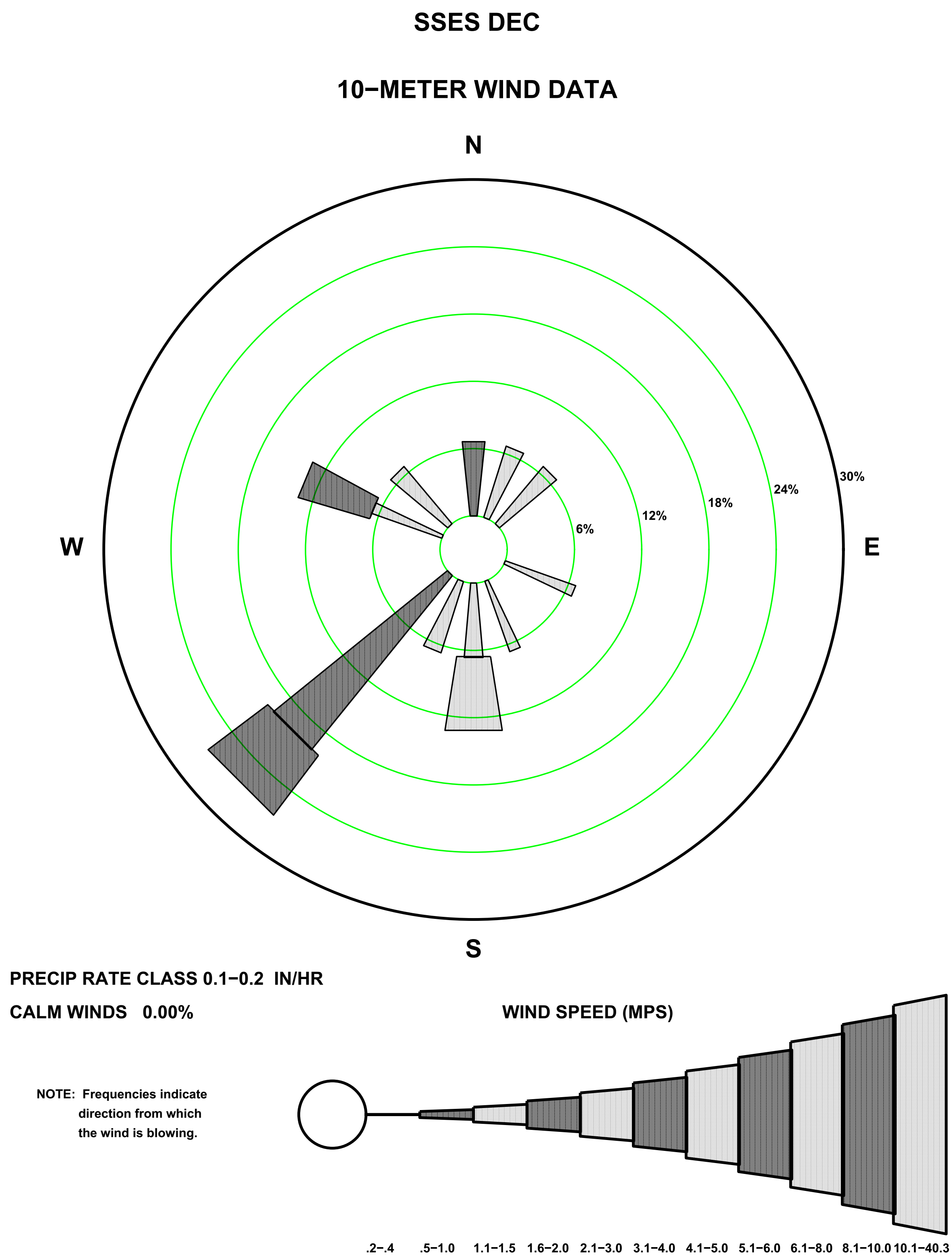


Figure 2.3-63 {Monthly Average Mixing Heights}

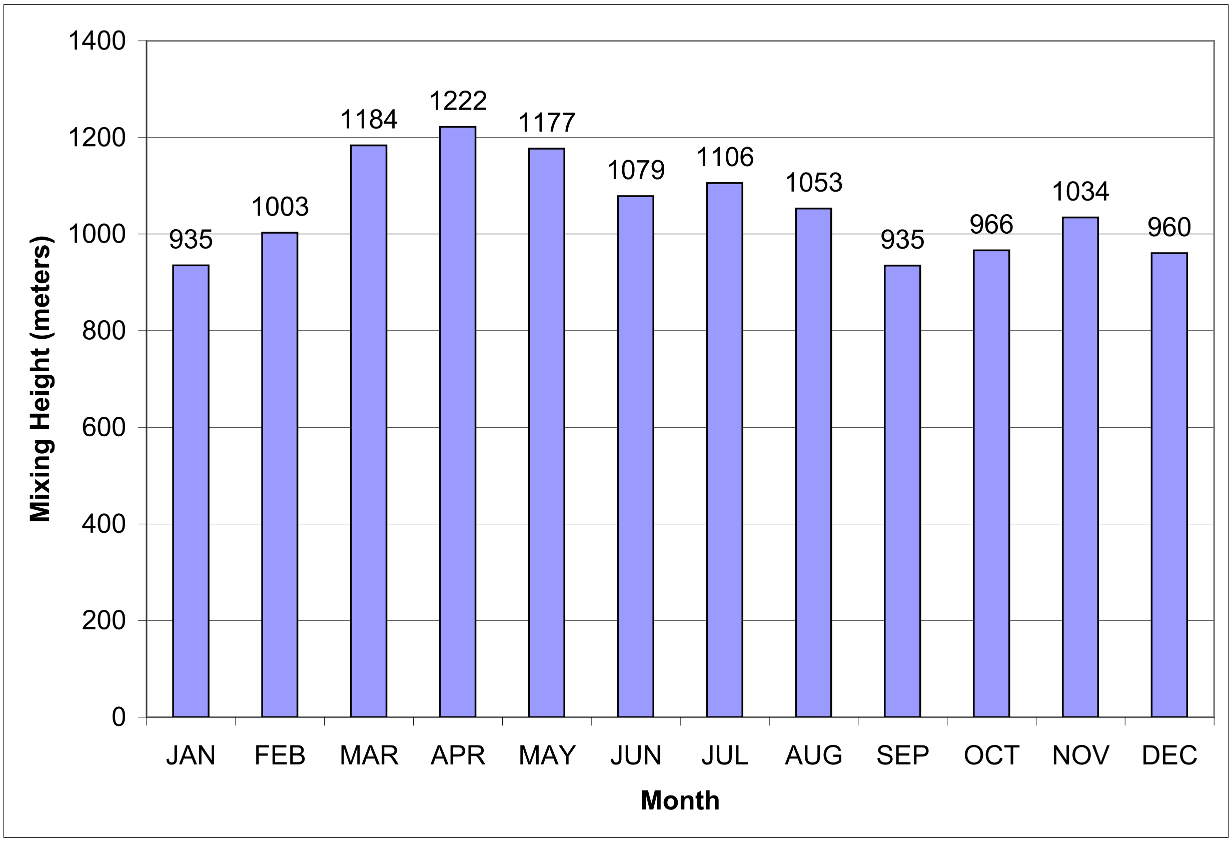


Figure 2.3-64 {Topography Within 1-Miles of the BBNPP Site}

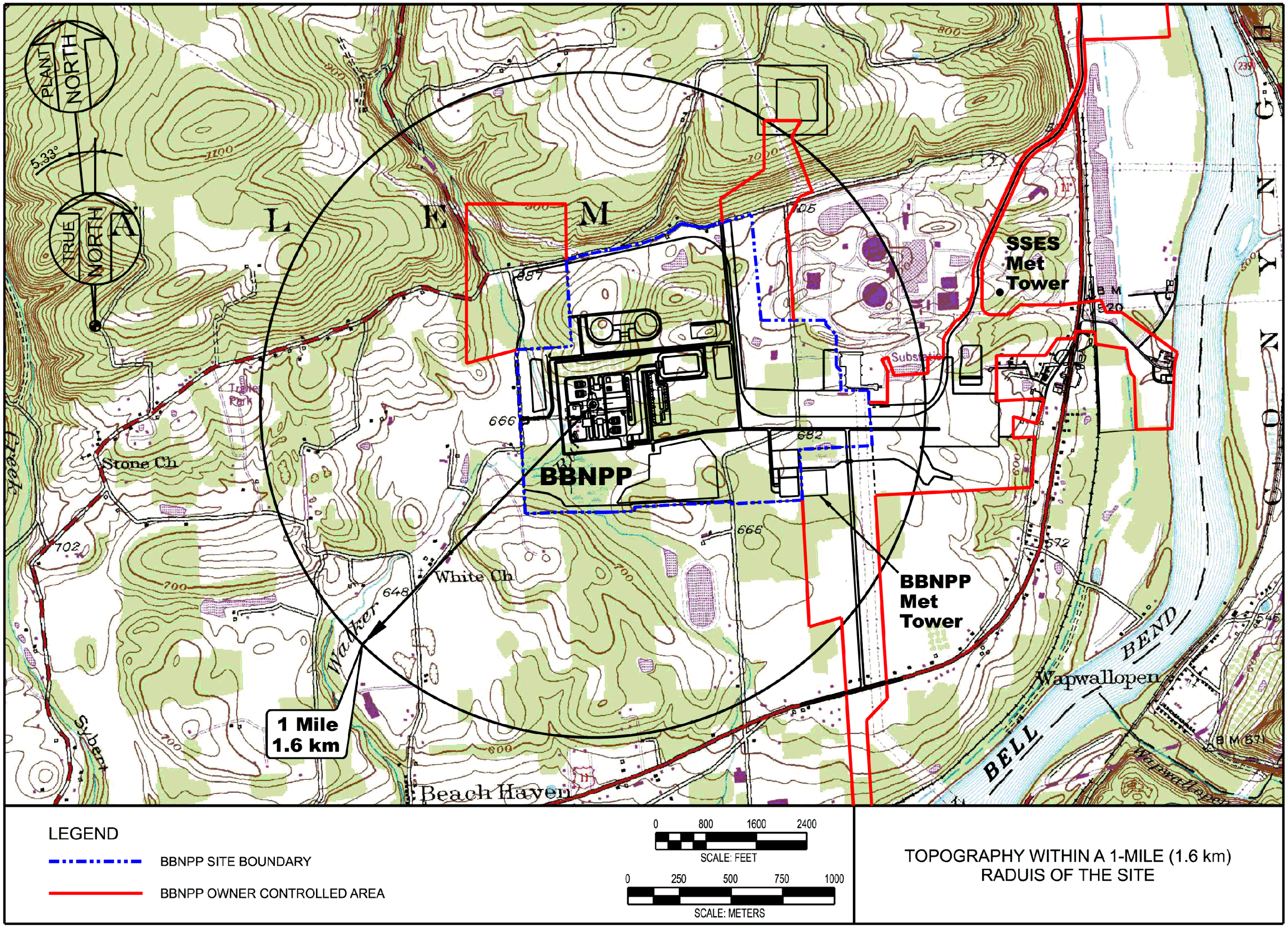
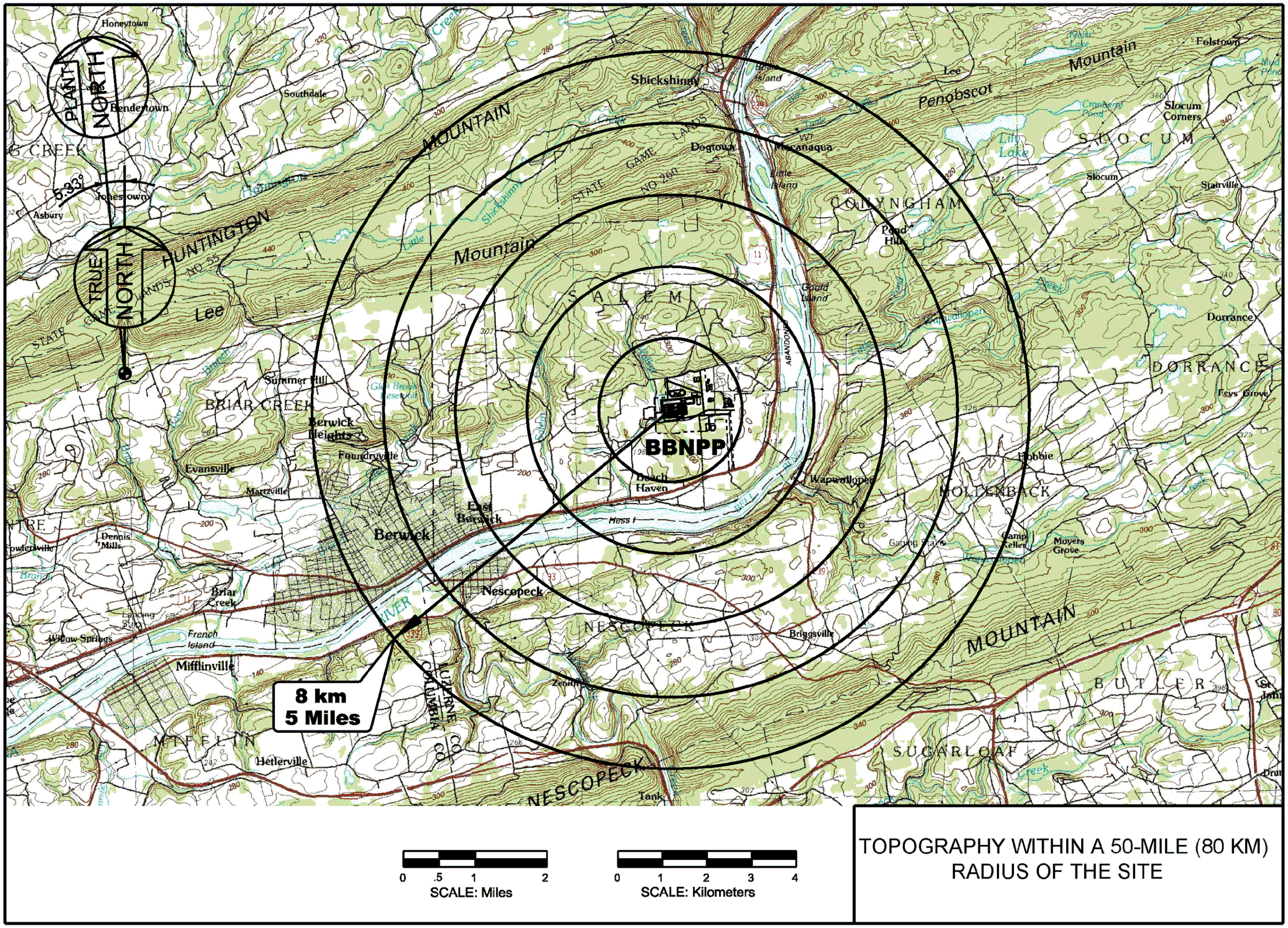


Figure 2.3-65 {Topography Within 5-Miles of the BBNPP Site}



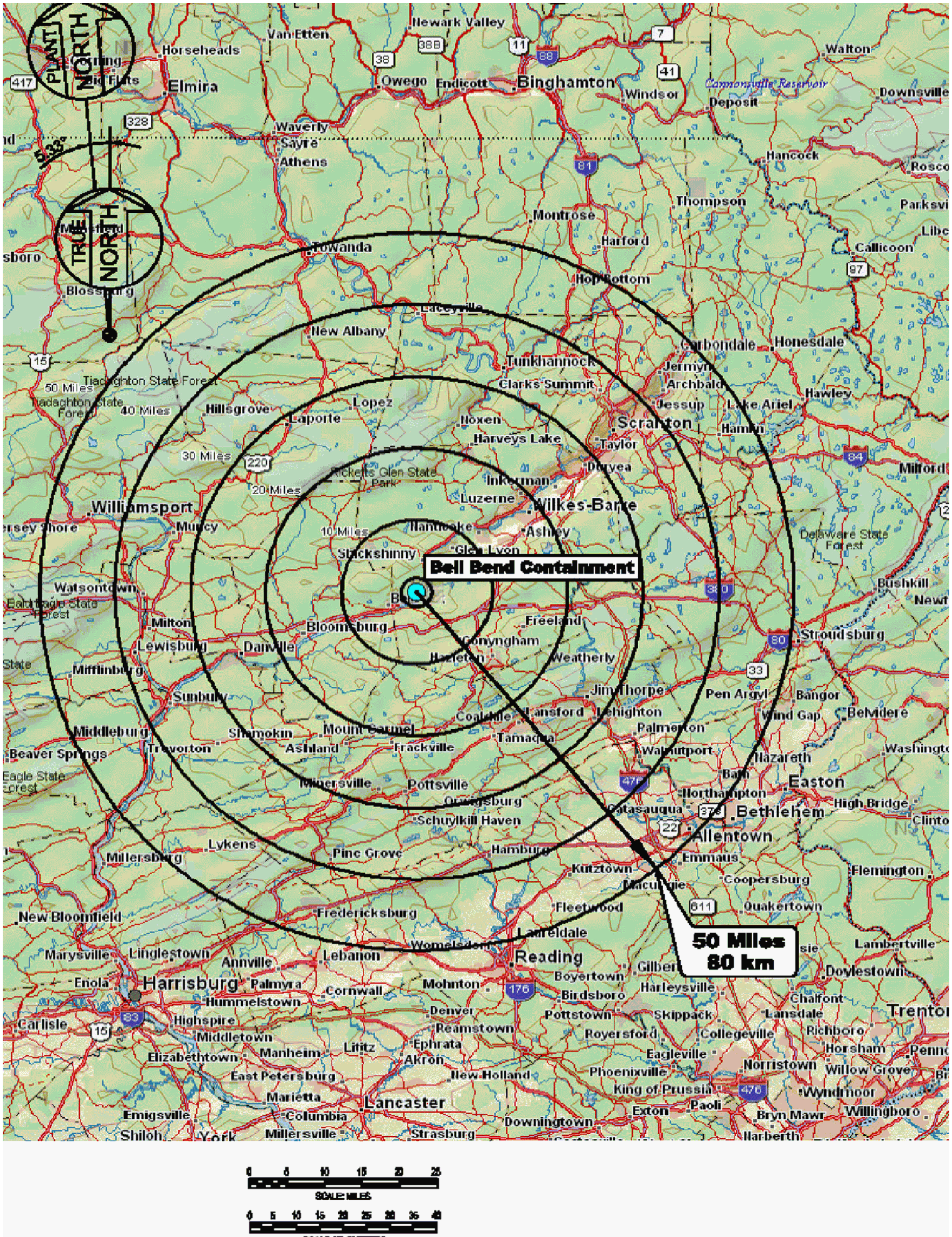
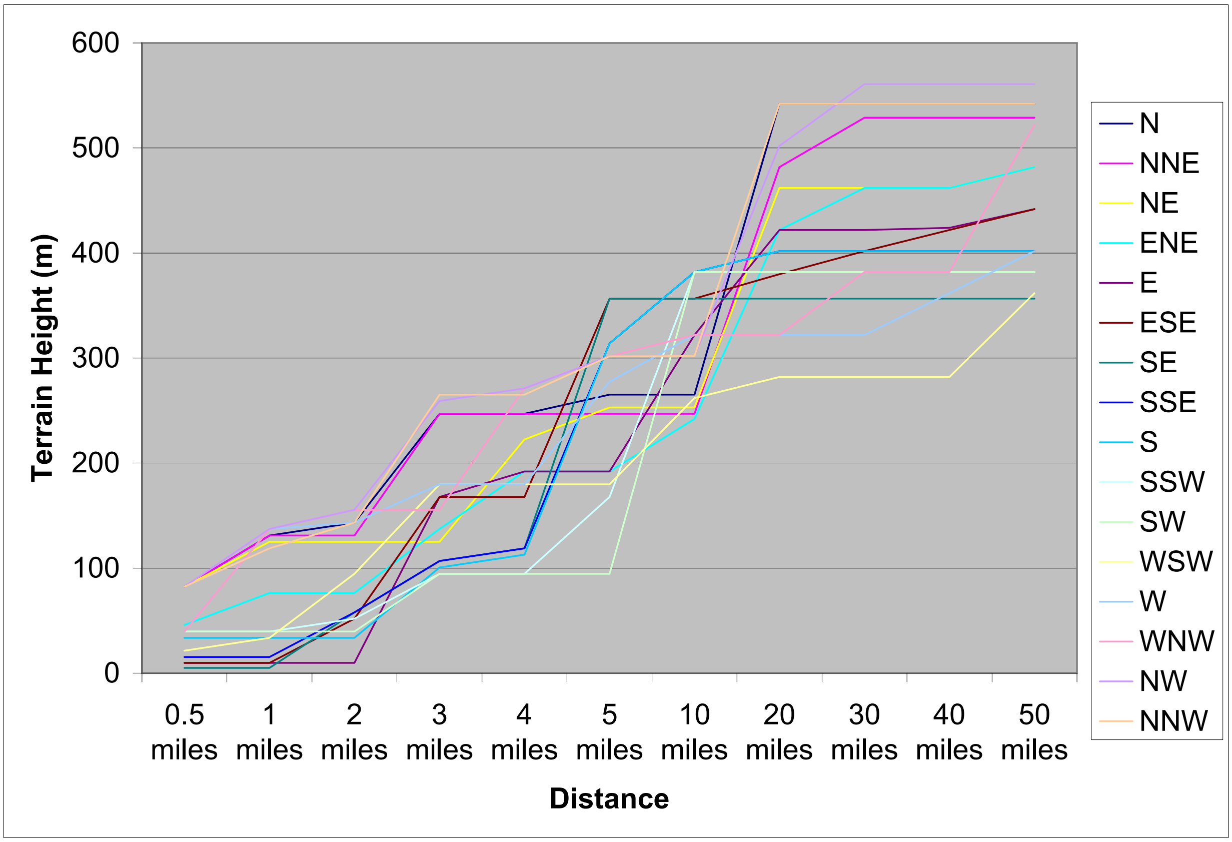

PLANT NORTH
TRUE NORTH
5.33°
Bell Bend Containment
50 Miles
80 km
10 Miles
20 Miles
30 Miles
40 Miles
50 Miles
Elmira
Binghamton
Owego
Waverly
Sayre
Athens
Towanda
Montrose
Tunkhannock
Scranton
Wilkes-Barre
Williamsport
Bloomsburg
Danville
Hazleton
Jim Thorpe
Pottsville
Allentown
Bethlehem
Easton
Reading
Harrisburg
Lebanon
Lancaster
Stroudsburg
Carbondale
Honesdale
SCALE: MILES
0 5 10 15 20 25
0 5 10 15 20 25 30 35 40

Figure 2.3-67 {Maximum Elevation versus Distance Within 50 Miles of the BBNPP Site}



2.4 HYDROLOGIC ENGINEERING

This section of the U.S. EPR FSAR is incorporated by reference with the following departures and/or supplements.

2.4.1 HYDROLOGIC DESCRIPTION

The U.S. EPR FSAR includes the following COL Item for Section 2.4.1:

> A COL applicant that references the U.S. EPR design certification will provide a site-specific description of the hydrologic characteristics of the plant site.

This COL Item is addressed as follows:

This section identifies the interface of {BBNPP} with the hydrosphere. It also identifies the hydrologic causal mechanisms that will establish the design basis with respect to floods and water supply requirements. Information on surface water and ground water uses that may be affected by plant operation is also included in this section.

{References to elevation values in this section are based on the National Geodetic Vertical Datum of 1929 (NGVD 29), unless stated otherwise.}

Sections 2.4.1.1 through 2.4.1.3 are added as a supplement to the U.S. EPR FSAR.

2.4.1.1 {Site and Facilities

2.4.1.1.1 BBNPP Site Description

The proposed BBNPP site is located in Salem Township, Luzerne County, Pennsylvania (PA), on the west side of the North Branch of the Susquehanna River (NBSR) (within the Middle Susquehanna Sub-basin), as shown on Figure 2.4-1. The proposed BBNPP site is situated in the Walker Run watershed, which is has a drainage area of 4.10 mi^2 (10.6 km^2). The site is also adjacent to Susquehanna Steam Electric Station (SSES) Units 1 and 2 in an area of open deciduous woodlands, interspersed with cultivated fields and orchards. The site sits on a relatively flat upland area, 174 ft (53 m) above the nominal Susquehanna River level, as shown in Figure 2.4-2. The BBNPP site is approximately:

- 1.6 mi (2.6 km) north-northeast of the confluence of Walker Run and the NBSR,
- 22 mi (35 km) downstream of Wilkes-Barre, PA,
- 5 mi (8 km) upstream of Berwick, PA, and
- 70 mi (113 km) north-northeast of Harrisburg, PA.

The BBNPP site is covered by glacial deposits and was subjected to both glacial and periglacial events during the Quaternary Epoch. Underneath this glacial overburden lies Devonian bedrock. Erosion and down cutting from the Susquehanna River and its tributary streams have dissected the overburden, leaving many exposed bedrock outcrops throughout the site area. Topographic relief within a 5 mi (8 km) radius around the BBNNP site varies from just under 500 ft (152 m) mean sea level (msl), on the floodplain of the NBSR, to a maximum of approximately 1,560 ft (476 m) msl. Thus, the topographic relief within 5-mi (8 km) radius is approximately 1,060 ft (323 m).

The NBSR flows from north to south past the SSES and makes a broad, 90 degree angle turn (i.e., Bell Bend) to the west before reaching Berwick, PA. The proposed BBNPP site CWS Makeup Water Intake Structure is approximately 22 miles (35 km) downstream of Wilkes-Barre, PA and 5 miles (8 km) upstream of Berwick, PA. The site of the CWS Makeup Water Intake Structure is the reference for the BBNPP site with respect to distances along the NBSR. The NBSR ultimately receives all surface water that drains from the BBNNP site.

An east-west trending ridge lies just to the north of the BBNPP site and Beach Grove Road. Small streams drain from the ridge top and flow southward toward the NBSR. Walker Run is a relatively small stream but is the largest in the immediate vicinity of the BBNPP site. Walker Run flows southward along the western side of the BBNPP, and has a gradient drop from upstream (referred in Table 2.4-1 as Upper Walker Run) to downstream (referred as Lower Walker Run in Table 2.4-1) of almost 290 ft (88 m) over a distance of approximately 4 mi (6 km). An unnamed tributary to Walker Run shown in Figure 2.4-3 as Unnamed Tributary No. 1 flows along the eastern and southern site boundaries and enters Walker Run on the southwest side of the site. A second unnamed tributary shown in Figure 2.4-3 as Unnamed Tributary No. 2 flows southeastward within the BBNPP site and empties into Unnamed Tributary No. 1. The Walker Run watershed (Table 2.4-3) has a drainage area of 4.10 mi^2 (10.60 km^2). Based on the runoff of these streams, the Walker Run watershed can be divided into three sub-basins (A1, A2, and A3) as illustrated in Figure 2.4-3.

SSES is located approximately 1 mi (1.6 km) from the BBNPP Nuclear Island, on the west bank of the NBSR on a relatively flat plain of gently rolling hills. The grading of the SSES was designed to direct storm water away from the safety related buildings by a system of culverts, surface drainage channels, and underground storm drains towards the NBSR (PPL, 1999b). Furthermore, a topographic divide separates the runoff from the existing SSES site and the BBNPP site. Confers Lane acts as the drainage divide for the BBNPP site and the Walker Run Watershed, all illustrated in Figure 2.4-3 with all drainage ditches to the west direction flow towards Stormwater Pond #1 and all ditches to the east directing flow towards Stormwater Pond #2. Runoff from the BBNPP is directed towards stormwater ponds located on the east and west side of the plant and would not impact the SSES site.

Figure 2.4-4 illustrates the BBNPP post construction site drainage and grading. The post-construction grading of the BBNPP site directs runoff from plant north to plant south with drainage ditches collecting stormwater and diverting flow to Stormwater Pond No. 1 on the far western side of the site and Stormwater Pond No. 2, located on the southeast side of SSES plant and east of the BBNPP. In Figure 2.4-5, red arrows indicate the direction of sub-basin runoff that eventually drains into Stormwater Pond No. 1, while the green arrows show sub-basin runoff that is directed towards Stormwater Pond No. 2. The two planned stormwater Retention Ponds, located on the west side of the nuclear island and southeastern side of the existing SSES plant will be unlined basins with a simple earth-fill berms and will include piping systems that direct discharges to the adjacent water courses. Stormwater Pond #1 has a contributing area of 310 acres (125 hectares) with a runoff volume of 126.92 acre-ft (163,741 m^3). Evaluation of site drainage is presented in Section 2.4.2.

2.4.1.1.2 BBNPP Facilities

The BBNPP will be a U.S. Evolutionary Power Reactor (EPR). The U.S. EPR is a pressurized water reactor design. The BBNPP design is a four-loop, pressurized water reactor, with a reactor coolant system composed of a reactor pressure vessel that contains the fuel assemblies, a pressurizer including ancillary systems to maintain system pressure, one reactor coolant pump per loop, one steam generator per loop, associated piping, and related control systems and protection systems. The BBNPP Reactor Auxiliary Building and Turbine Building will be oriented side by side, with the Reactor Building oriented towards the east.

The Reactor Building is surrounded by the Fuel Building, four Safeguard Buildings, two Emergency Diesel Generator Buildings, the Nuclear Auxiliary Building, the Radioactive Waste Processing Building and the Access Building. Figure 2.4-5 shows the layout for BBNPP, depicting main features: property boundary, water intake, discharge pipelines, and switchyard.

The BBNPP Reactor Building is a cylindrical reinforced concrete vertical structure, capped with a reinforced \ enclosed spherical dome ceiling. The Reactor Building is approximately 186 ft (56.7 m) in diameter with an overall height of about 240 ft (73.2 m). The plant grade for BBNPP will be at an elevation of approximately 674 ft (205.4 m). With the bottom of the Reactor Building foundation 36 ft (11 m) below grade, the new Reactor Building will rise 204 ft (62.2 m) above grade. The top of the Reactor Building will be at an elevation of approximately 879 ft (268 m).

Safety-related facilities for the BBNPP are located at the grade elevation of 674 ft (205.4 m) msl. The safety-related structures in the BBNPP power block area include the following: reactor complex (consisting of the reactor, fuel, and safeguards buildings), emergency diesel generator buildings, and the ESWS cooling towers.

The BBNPP will have a closed-loop cooling system. The BBNPP Cooling Towers will be round concrete structures with a diameter of approximately 350 ft (107 m) at the base and an approximate height of 475 ft (145 m). Other BBNPP buildings will be concrete or steel with metal siding.

The CWS Makeup Water Intake Structure will be located on the NBSR downstream from the existing SSES Units 1 and 2 intake structure as shown in Figure 2.4-10. The makeup water for the ESWS cooling towers will normally be supplied from the non-safety-related Raw Water Supply System, located in the CWS Makeup Water Intake Structure. It withdraws water from the NBSR. ESWS cooling tower basins will also serve as the Ultimate Heat Sink (UHS) cooling water storage volumes for use during design basis accidents (DBA). ESWS cooling tower basin inventory will provide cooling water for safety-related heat removal for the first 72 hours during DBA conditions. The ESWS makeup water after the first 72 hours under DBA conditions will be supplied directly from the ESWEMS Retention Pond.

2.4.1.1.3 BBNPP Flood Design Basis

The design basis flood elevation for the BBNPP site was determined by considering a number of different flooding possibilities. These include the Probable Maximum Flood (PMF) on streams and rivers, potential dam failures, probable maximum surge and seiche flooding, probable maximum tsunami, and ice effect flooding. Each of these flooding scenarios was investigated in conjunction with other flooding and meteorological events, such as wind generated waves, in accordance with guidelines presented in ANSI/ANS 2.8-1992 (ANS, 1992). Adequate drainage capacity will be provided to prevent flooding of safety-related facilities and to convey storm water runoff from the roofs and buildings away from the plant site area. Detailed discussions on each of these flooding events and how they were estimated are found in Section 2.4.2 through Section 2.4.7.

The most significant flood event on record is the 1972 flood which resulted from Hurricane Agnes and occurred throughout the Mid-Atlantic region of the United States. On June 25, 1972, a river crest of 517.35 ft (157.7 m) msl was observed near the SSES Units 1 and 2 intake structure (Ecology III, 1986). Discussion of peak stream flow is presented in Section 2.4.1.2.1.7.

The plant grade elevation will be 674 ft (205.4 m) msl (Section 2.5.4). The elevation of the Susquehanna River 100-year (yr) floodplain is approximately 513 ft (156 m) msl (FEMA, 2008). The nominal water level of the Susquehanna River is 500 ft (152 m) msl. Thus, the BBNPP site is approximately 161 ft (49 m) above the Susquehanna River 100-yr floodplain and 174 ft (53 m) above the nominal Susquehanna River level of 500 ft (152 m) msl. The PMF evaluation for SSES Units 1 and 2 (see SSES FSAR) showed that the PMF elevation on the Susquehanna River would reach an elevation of 548 ft (167 m) msl. The BBNPP site elevation is 674 ft (205.4 m) msl, and after assessing the existing PMF evaluation, it is not possible for the PMF to increase 126 ft (38.4 m) to cause any flooding at the BBNPP site. Thus flooding from the Susquehanna River would have no impact on the BBNPP site.

The maximum water level due to local intense precipitation or the local Probable Maximum Precipitation (PMP), at the BBNPP site is estimated and discussed in Section 2.4.2. The maximum water level in the BBNPP power block area due to local PMP is approximately 671 ft (204.5 m) msl which is the design basis flood elevation for safety-related facilities in the power block area, the ESWEMS Pumphouse and ESWEMS Retention Pond. The safety-related buildings are located above this elevation. The top of the dike for the ESWEMS Retention Pond is also located above this elevation. Since the plant facilities are located on the crest of a plateau that has a well-developed natural drainage system and because final grading of the site area is integrated with this natural system, potential local flooding, even from extremely heavy rainfall, will be controlled by the plant site drainage system as discussed in Section 2.4.2.

Walker Run, was analyzed for the PMF due to its proximity to the project site. Walker Run flows towards the south and converges with the Susquehanna River at approximately river mile 164 (264 km). Walker Run collects runoff from the site and also areas north, west, and southwest of the plant site. The total drainage area of the Walker Run watershed is approximately 4.10 mi^2 (10.60 km^2). The maximum water level in the area of the proposed BBNPP site during the PMF event from Walker Run is 670.96 ft (204.51 m) msl at Cross Section 12,715 (Section 2.4.3) which is approximately 3 ft (1 m) below the plant grade elevation.

The BBNPP site lies approximately 107 mi (172 km) inland from the Chesapeake Bay, which is downstream from the BBNPP site. Because the plant site is more than 100 mi (161 km) from the nearest coast, the elevation of the plant site is 161 ft (49 m) above the 100-yr floodplain of the Susquehanna River, and there are no major water bodies adjacent to the BBNPP site, potential tsunami flooding and storm surge and seiches flooding are not applicable considerations for this site and are not factors which could cause flooding. Further discussion is presented on FSAR Section 2.4.4 and Section 2.4.6.

2.4.1.2 Hydrosphere

2.4.1.2.1 Hydrological Characteristics

An east-west trending ridge runs along the north side of the BBNPP site. The ground surface is highest in elevation along the ridge top (800 ft (244 m) msl); surface elevation decreases toward the NBSR, to the east and south. Surface drainage from the ridge, the BBNPP and SSES sites, and from adjacent farmlands, drain via small creeks southward and eastward toward the NBSR. These creeks include two named creeks (Walker Run and Salem Creek) and several small unnamed creeks. In addition, four small ponds are located on or directly adjacent to the BBNPP site (Figure 2.4-17).

From the ridge top to the Susquehanna River, the creeks drop considerably in elevation (approximately 800 ft to 517 ft (244 m to 158 m) msl). Table 2.4-1 shows the approximate lengths and approximate gradients of stream extent located near the BBNNP Site.

2.4.1.2.1.1 Susquehanna River

The Susquehanna River is approximately 444 mi (715 km) in length. The Susquehanna River has its headwaters at Cooperstown, Otsego County, located in upstate New York (NY). The Susquehanna River profile is shown in Figure 2.4-6.

The Susquehanna River Basin has a delineated area of 27,510 mi^2 (71,251 km^2) (SRBC, 2008b). The location and extent of the Susquehanna River Basin and its six (6) sub-basins are shown in Figure 2.4-1. More than three-quarters of the entire Susquehanna River Basin lies in Pennsylvania (PADEP, 2008e).

In New York, several headwater tributaries discharge into the Susquehanna River including the Unadilla, the Chenango, the Otselic and the Tioughnoiga rivers (PADEP, 2008g). To the west, the Chemung River is formed by Cohocton, Canisteo, Cowanesque and Tioga rivers. The Chemung River joins the Susquehanna in Bradford County, Pennsylvania. In total, 6,275 mi^2 (16,252 km^2) of New York drain to the Susquehanna River (PADEP, 2008g).

In Pennsylvania, the Susquehanna River flows south and east before turning southwest above Wilkes-Barre. The branch of the Susquehanna River upstream from Sunbury is unofficially referred to as the NBSR. From Sunbury, the river flows south towards Harrisburg, being joined north of Harrisburg by another large tributary, the Juniata. Beyond Harrisburg, the Susquehanna River again turns southeast forming the boundary between York and Lancaster counties before entering Maryland (PADEP, 2008g). At its mouth, it empties into the northern end of the Chesapeake Bay at Harve de Grace, Hartford County, Maryland (MD), at an elevation of 0 ft (0 m) msl.

The BBNPP site is located within the Middle Susquehanna River sub-basin. The Middle Susquehanna River Sub-Basin covers an area of 3,771 mi^2 (9,767 km^2).

2.4.1.2.1.2 North Branch of the Susquehanna River (NBSR)

The branch of the Susquehanna River upstream from Sunbury is unofficially referred to as the NBSR. The NBSR flows southeast through high, flat-topped plateaus separated by steep-sided valleys. As it flows downstream the NBSR is joined by the Lackawanna River where it turns southwest and flows towards Sunbury, PA (SRBC, 2008a).

The NBSR flows through 8 counties in Pennsylvania, while receiving drainage from areas within 14 counties in Pennsylvania.

The NBSR is utilized to supply makeup to the Circulating Water System and Raw Water Supply System. It does not serve as the ultimate heat sink. The NBSR is not utilized for any safety-related purposes. Low water levels in the NBSR are investigated, along with legal consumptive use restrictions.

2.4.1.2.1.3 Walker Run & Unnamed Tributary No. 1

Walker Run flows towards the south until it converges with the NBSR, at approximately River Mile 164 (264 km). Walker Run collects runoff from the area surrounding the BBNNP site and areas north, west, and southwest of the BBNPP site. The drainage area for the Walker Run watershed is approximately 4.10 mi² (10.60 km²). Walker Run has a difference in elevation of approximately 450 ft (137 m) over its entire length with an overall slope of 1.95% (Table 2.4-1).

Unnamed Tributary No. 1 flows along the eastern and southern site boundaries of BBNPP and discharges into Walker Run on the southwest side of the site. The Unnamed Tributary No. 1 encompasses a drainage area of about 0.68 mi² (1.76 km²) and an approximate length of 2 mi (3.2 km) with an overall slope of 3.06% (Table 2.4-1).

2.4.1.2.1.4 Unnamed Tributary No.2

A second unnamed tributary flows southeastward within the BBNPP site and empties into the Walker Run. Its drainage area is part of the Walker Run watershed (see Section 2.4.3).

2.4.1.2.1.5 Unnamed Tributary No.3

A third unnamed tributary flows southeastward below the BBNPP site and empties into the NBSR about 0.8 mi (1.3 km) upstream from the Walker Run confluence. Its drainage area is not part of the Walker Run watershed (see Section 2.4.3).

2.4.1.2.1.6 Gauging Stations

There is no gauging station within the Walker Run watershed. The NBSR gauging stations in Pennsylvania that gauge both surface water elevation and water flow and are located close to the BBNPP site, include the United States Geological Survey (USGS) gauging stations at Wilkes-Barre, PA (Station No. 01536500), and Danville, PA (Station No. 01540500). These stations are located upstream, and downstream of the proposed BBNPP intake structure, respectively (Figure 2.4-7).

The Wilkes-Barre gauging station is located approximately 24 mi (38.6 km) upstream from the BBNPP site. The drainage area of the NBSR at Wilkes-Barre is approximately 9,960 mi^2 (25,796 km^2) (USGS, 2008b), and the average annual flow calculated from the mean daily streamflow data recorded at the USGS gauging station for a 108-yr period (1899-2006) is 13,641 cfs (386 m^3/s) (USGS, 2008i). At Wilkes-Barre, the maximum streamflow was recorded on June 24th, 1972 and noted as 345,000 cfs (9,769 m^3/s) and the daily minimum streamflow noted was 532 cfs (15.1 m^3/s), recorded on September 27th, 1964 (USGS, 2008i). The maximum recorded flood level was 40.91 ft (12.47 m), recorded on June 24, 1972 (USGS, 2008i). Temperature data has not been recorded for this station.

Peak annual streamflow recorded at the Wilkes-Barre gauging station is presented in Table 2.4-2 (USGS, 2008b). Monthly streamflows and mean, maximum and minimum daily streamflows at Wilkes-Barre, PA, are presented in Table 2.4-3 through Table 2.4-6, respectively (USGS, 2008i).

Mean streamflow discharges at Wilkes-Barre are also presented in Figure 2.4-8 along with maximum and minimum monthly average values.

The USGS gauge at Danville, PA (Station No. 01540500) has been in continuous operation since April 1905 (USGS, 2008a). The Danville gauging station is located approximately 28 mi (45 km) downstream from the BBNPP Site. The drainage area of the NBSR at Danville is approximately 11,200 mi^2 (29,008 km^2) (USGS, 2008a). The average annual flow calculated from the mean daily data recorded during the 102-year period (1905-2006) is 15,483 cfs (438 m^3/s) (USGS, 2008a). At Danville, the maximum streamflow at this station was 363,000 cfs (10,279 m^3/s) (USGS, 2008h), which was recorded on June 25, 1972, during Hurricane Agnes. The maximum flood level, 32.16 ft (9.8 m), was recorded on the same date (June 25, 1972) and the daily minimum streamflow noted was 558 cfs (15.8 m^3/s), recorded on September 24th, 25th and 27th in 1964 (USGS, 2008h).

Peak annual streamflow recorded at the Danville gauging station is presented in Table 2.4-7 (USGS, 2008a). Monthly streamflows and mean, maximum and minimum daily streamflows at Danville, PA, are presented in Table 2.4-8 through Table 2.4-11 (USGS, 2008h), respectively. Mean streamflow discharges at Danville are also presented in Figure 2.4-9 along with maximum and minimum monthly values.

2.4.1.2.1.7 Periods of Peak Streamflow

Hurricane Agnes caused the maximum flood on record within the area that was defined previously as the North Branch of the Susquehanna River (NBSR). The critical factor affecting the record flooding was the near continuous nature of rainfall during the hurricane. From June 21-25, an average of 6-10 inches (15-25 cm) of rain fell over the Mid-Atlantic region (NOAA, 2008). These high rainfalls produced record flooding on the Susquehanna River, equaling or exceeding flood recurrence intervals of 100 years along portions of the Susquehanna River (NOAA, 2008). Hurricane Agnes generated peak stream flows of 345,000 cfs (9,769 m^3/s) at Wilkes-Barre on June 24th and 363,000 cfs (10,279 m^3/s) at Danville on June 25th (USGS, 2008a)(USGS, 2008b).

On June 25, 1972 a river crest of 517.35 ft (157.7 m) msl was observed near the SSES intake structure (Ecology III, 1886). The BBNPP plant grade will be at approximately elevation 674 ft (205.4 m) msl, which is approximately 157 ft (48 m) above the recorded peak flood elevation.

2.4.1.2.1.8 Bathymetry of the North Branch of the Susquehanna River (NBSR)

The bathymetry of the NBSR near the BBNPP intake is illustrated in Figure 2.4-10. Streambed elevations in the vicinity of the CWS Makeup Water Intake Structure range from 473 to 484 ft (144 to 148 m) msl). The CWS Makeup Water Intake Structure draws water from the NBSR from approximately 1 ft (0.3 m) below the design basis low water level elevation 484 ft (148 m) msl. As a result, the bathymetry of the NBSR will not be affected by the intake system.

2.4.1.2.1.9 Floodplain of the North Branch of the Susquehanna River (NBSR)

The elevation of the NBSR, 100-yr floodplain is approximately 513 ft (156 m) msl (FEMA, 2008) and the floodplain illustrated in Figure 2.4-13 and Figure 2.4-14, is approximately 0.44 mi (0.71 km) wide in this area. The FEMA Flood Insurance Rate Map in the vicinity of the BBNPP site (Figure 2.4-11 through Figure 2.4-14) shows that the predicted Susquehanna River flooding that will occur during a 500-yr recurrence interval extends up to elevation 514 ft (157 m) msl near the CWS Makeup Water Intake Structure. Figure 2.4-11 through Figure 2.4-14 show the 100-yr and 500-yr Susquehanna River flooding impacts in the vicinity of the BBNPP. The BBNPP plant grade elevation will be 674 ft (205.4 m) msl, thus the BBNPP site is approximately 161 ft (49 m) above the NBSR 100-yr floodplain and 174 ft (53 m) above the nominal Susquehanna River level.

Figure 2.4-11 and Figure 2.4-12 illustrates the predicted 100-yr and 500-yr flood levels in the Walker Run watershed and the Susquehanna River. The 100-yr and 500-yr flood on Walker Run brings water levels to elevations 658 ft (200.6 m) and 659 ft (201 m) msl, respectively. The BBNPP plant grade will be at elevation 674 ft (205.4 m) msl. Thus, flooding from a 100-yr or a 500-yr storm should be at least 5 or 6 ft (1.5 or 1.8 m) below the plant grade.

2.4.1.2.2 Dams and Reservoirs

A total of 492 water control structures are located on tributaries that drain into the Susquehanna River upstream of the site (Figure 2.4-15). Information obtained for 8 significant upstream multipurpose dams with flood control storage capacity located on tributaries that drain directly into the Susquehanna River, including pool elevations and storage volumes, is presented in Table 2.4-12 (USGS, 2002; USGS, 2008c; USGS, 2008d; USGS, 2008e; USGS, 2008f; USGS, 2008g; PPL, 1999a)

Out of these 8 dams, Aylesworth Creek Dam and Stillwater Dam are the only water control structures located within the Middle Susquehanna Sub-basin. Aylesworth Creek Dam and Stillwater Dam are located about 50 mi (80 km) and 65 mi (105 km) upstream from the CWS Makeup Water Intake Structure, respectively. The flood control storage volume for Aylesworth Creek Dam is approximately 3.32E10 ft^3 (9.40E8 m^3) and the Stillwater Dam has a flood control storage volume of approximately 5.23E8 ft^3 (1.48E7 m^3) (USGS, 2008c; USGS,2008d).

Other significant upstream multipurpose dams with flood control storage capacity located on tributaries of the Susquehanna River are in different sub-basins. The Cowanesque, Hammond and Tioga Dams are located within the Pennsylvania portion of the Chemung Sub-basin; the Almond Dam is located in the New York portion of the Chemung Sub-basin; and all other significant dams are located in New York in the Upper Susquehanna Sub-basin (Figure 2.4-15). Among all the dams in the Chemung Sub-basin, the Cowanesque Dam is closest to the site with an approximate distance of 164 mi (264 km) upstream. Whitney Point Dam is the closest from the Upper Susquehanna Sub-basin with an approximate distance of 176 mi (283 km) upstream from the CWS Makeup Water Intake Structure.

Figure 2.4-15 also shows dams located downstream from BBNPP. The Adam T. Bower Memorial Dam is the world's largest inflatable dam and the first dam downstream from the site of the CWS Makeup Water Intake Structure. The Adam T. Bower Memorial Dam was completed in 1970 and creates a 3,060-acre (1238-ha) lake during summer months (DCNR, 2008). The dam and lake are part of the Shikellamy State Park in Snyder County, PA.

2.4.1.2.3 Surface Water Users

In the Susquehanna River Basin, water use is regulated by the Susquehanna River Basin Commission (SRBC). Water use in Pennsylvania, is registered with and reported to the Pennsylvania Department of Environmental Protection (PADEP).

The Water Resources Planning Act (Act 220) requires the PADEP to conduct a statewide water withdrawal and use registration and reporting program (PADEP, 2008a). Each public water supply agency, each hydropower facility (irrespective of the amount of withdrawal), and each person who withdraws or uses more than 10,000 gallons of water per day (gpd) (37,854 liters per day (lpd)) over any 30-day period, must register their withdrawal or withdrawal use.

The SRBC, was created by a compact between the Federal government and the three states which the Susquehanna River Basin lies. Operations subject to the SRBC are those that exceed the consumption rate of 20,000 gpd (75,708 lpd) over a 30-day average (SRBC, 2007) or that exceed an average withdrawal (groundwater, surface water or combined) of 100,000 gpd (378,541 lpd) over a 30-day period.. Consumption rates less than the 20,000 gpd (75,708 lpd) fall under the Water Resources Planning Act (Act 220).

The Middle Susquehanna sub-basin (Figure 2.4-1) is 3,755 mi^2 (9,725 km^2) in area and has a population representing 16% of the total Susquehanna River Basin. Total water consumption (surface water and ground water) in the sub-basin is: 40.7% for power generation, 37.6% for municipal use, 15.2% for industrial use, 4.1% for agriculture, and 2.4% for domestic use (SRBC, 2008a).

Surface water use data for Luzerne County were obtained from the PADEP (PADEP, 2008f). Figure 2.4-16 illustrates the registered surface water withdrawal locations reported by major water users in Luzerne County (PADEP, 2008a). This figure does not include public water supplies, because the state does not publish the locations of public water supplies for security reasons. Table 2.4-13 identifies active surface water users (not including the public water supplies) within Luzerne County (PADEP, 2008f); these withdrawals are mainly used for irrigation and industrial purposes. Figure 2.4-17 shows the locations of the surface water intakes portrayed in Figure 2.4-16, but includes only those which are within a 5 mi (8 km) radius of the BBNPP site. SSES Units 1 and 2 are the largest water user in the vicinity the of BBNPP. Presently, Walker Run is not among the listed sources of water for agricultural, domestic, or industrial purposes.

Water usage at SSES Units 1 and 2 is regulated by SRBC under Docket No. 19950301-1. SSES Unit 1 and 2 reported an average withdrawal of 58.3 million gallons per day (MGD) (220 million lpd). The maximum allowable withdrawal rate is 66 MGD (250 million lpd). The peak daily consumptive water allowed is 48 MGD (182 million lpd).

Table 2.4-14 shows the consumptive water use pattern by SSES Units 1 and 2 from 2001 to 2006 (PPL, 2008). During that period, the highest total monthly consumptive use was 1,175 million gallons per month (4,448 million liters per month) in July 2002, and an annual average consumptive use (from 2001 to 2006) of 909.5 million gallons per month (3,443 million liters per month).

Between 1961 and 2002, the Susquehanna River had an annual mean flow of 14,586 cfs (413 m^3/s) (NRC, 2006) (USEPA, 2008a). The SRBC works with local, state, and federal agencies to augment and protect in stream water needs during times of low flow. As part of this low flow management, activities such as the low flow augmentation for the existing SSES Units 1 and 2 were achieved by an agreement between Pennsylvania Power and Light Company (PPL) and the U.S. Army Corps of Engineers (USACE). USACE manages the Cowanesque Reservoir located in Lawrenceville, PA, to provide water supply storage and releases during low flow periods to replace the cunsumptive water use by SSES Units 1 and 2. In addition, the SRBC dictates that if the surface-water withdrawal impact is minimal in comparison to the natural or continuously augmented flows of a stream or river, no further mitigation is necessary (SRBC, 2002).

Currently, the SRBC is studying existing reservoirs to identify additional water storage capacity that might be released during low flow in the Susquehanna River.

Major public water Suppliers within Luzerne and Columbia Counties are presented in Table 2.4-15 (USEPA, 2008b) (PADEP, 2008d). Water sources for Luzerne and Columbia counties include lakes, rivers, reservoirs, and their tributaries, but does not include water withdrawal directly from the Susquehanna River.

Surface and wastewater discharges at SSES Units 1 and 2 are regulated through the National Pollutant Discharge Elimination System (NPDES). In Pennsylvania, these are issued and enforced by the PADEP Bureau of Water Management. The SSES Units 1 and 2 current NPDES permit (Permit No. PA0047325) was effective beginning on September 1, 2005, and is valid through August 31, 2010. Table 2.4-16 shows the average and maximum monthly SSES cooling tower blowdown discharge rates for 2000 through 2007 (PPL, 2008). The highest recorded monthly maximum discharge (17.78 MGD, or 67 million lpd) occurred in 2003.

Figure 2.4-18 illustrates water pollution control facilities locations within a 5-mile (8-km) radius from BBNPP and Figure 2.4-19 shows their locations within Luzerne County. Table 2.4-17 lists the water pollution control facilities located within Luzerne County. PADEP has recorded 159 outfalls in Luzerne County and 1,723 outfalls within a 50-mile (80-km) radius of the BBNPP site (PADEP, 2008c). Since each individual permit may have more than one outfall, the number of actual permits is less than the number of outfalls quoted above.

2.4.1.2.4 Ground Water Characteristics

The local and regional ground water characteristics are described in Section 2.4.12. A detailed list of current ground water users, ground water well locations, and the withdrawal rates in the vicinity of the BBNPP site is presented in Section 2.4.12.2.

The water source to meet the water demand requirements during operation of the BBNPP is the Susquehanna River. All cooling makeup water will be obtained from the Susquehanna River. All water for drinking and several other smaller uses will be obtained from a public water supply (Luzerne County). Construction water needs are expected to be satisfied by appropriating water from the nearby township. Additional information regarding the use of ground water at the BBNPP site is presented in Section 2.4.12.1.4.

2.4.1.3 References

ANS, 1992. Determining Design Basis Flooding at Power Reactor Sites, American National Standard Institute/American Nuclear Society, July 1992.

DCNR, 2008. The Resource News & Information, Pennsylvania Department of Conservation and Natural Resources, November 2001. Website: http://www.dcnr.state.pa.us/polycomm/res2001/bowerdam1101.htm, Date accessed: June 17, 2008.

Ecology III, 1986. Pre-Operational Studies of the Susquehanna River in the Vicinity of the Susquehanna Steam Electric Station, 1971-1982, Ecology III, Inc., December 1986.

FEMA, 2008. Flood Insurance Map, Luzerne County, Federal Emergency Management Agency. Website: http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&catalogId=10001&langId=-1, Date accessed: March 27, 2008.

NOAA, 2008. Middle Atlantic River Forecast Center, Hurricane Agnes - National Oceanic and Atmospheric Administration. Website: http://ahps.erh.noaa.gov/marfc/Flood/agnes.html, Date accessed: February 7, 2008.

NRC, 2006. Susquehanna Steam Electric Station Unit 1 and 2, License Renewal Application. Section 4.1, Pennsylvania Power and Light, September 2006.

PPL, 1999a. Susquehanna Steam Electric Station Units 1 and 2 Final Safety Analysis Report, Table 2.4-1 Revision 54, Table 2.4-1, Pennsylvania Power and Light, October 1999.

PPL, 1999b. Susquehanna Steam Electric Station Units 1 and 2 Final Safety Analysis Report, Section 2.4 Hydrologic Engineering, Revision 62, Pennsylvania Power and Light, October, 1999.

PPL, 2006. Susquehanna Steam Electric Station Unit 1 and 2, License Renewal Application. Section 4.1, Pennsylvania Power and Light, September 2006.

PADEP, 2008a. Water Withdrawal and Use Registration, Pennsylvania Department of Environmental Protection, Website: http://www.dep.state.pa.us/dep/DEPUTATE/Watermagt/wc/Act220/Registration/Defaultnew.htm, Date accessed: February 6, 2008.

PADEP, 2008b. State Water Planning, Population Projections 2000, Pennsylvania Department of Environmental Protection, Website: http://www.dep.state.pa.us/dep/deputate/watermgt/wc/Act220/2000population_projections.htm, Date accessed: March 7, 2008.

PADEP, 2008c. Water Pollution Facility, Pennsylvania Department of Environmental Protection, Website: http://www.dep.state.pa.us/, Date accessed: February 6, 2008.

PADEP, 2008d. Survey Information. Water Supply Data for Luzerne and Columbia Counties,. Pennsylvania Department of Environmental Protection, Website: http://www.drinkingwater.state.pa.us/dwrs/HTM/DEP_frm.html, Date accessed March 20, 2008.

PADEP, 2008e. Overview Water Resources Planning Act. Website: http://www.dep.state.pa.us/dep/deputate/watermgt/wc/subjects/WaterResources/docs/WaterResourcesExecutiveSummary.htm , Date accessed: March 25, 2008.

PADEP, 2008f. Water Resources Surface Water Withdrawal,. Pennsylvania Department of Environmental Protection, Website: http://www.depweb.state.pa.us/, Date accessed February, 2008.

PADEP, 2008g. Pennsylvania's Major River Basins,. Pennsylvania Department of Environmental Protection, Website: http://www.dep.state.pa.us/river/basininfo.htm, Date accessed: June 19, 2008

SRBC, 2002. Guidelines for Using and Determining Passby Flows and Conservation Releases for Surface Water and Groundwater Withdrawal Approvals,. Susquehanna River Basin Commission, November 8. Website: http://www.srbc.net/policies/docs/Policy%202003_01.pdf, Date accessed: May 5, 2008.

SRBC, 2006. Sub-basins of the Susquehanna River, Website: http://www.pasda.psu.edu/data/srbc/subbasins.zip, date accessed: February 2008.

SRBC, 2007. Pennsylvania Agricultural Consumptive Water Use,. Susquehanna River Basin Commission, January, 2007.Website: http://www.srbc.net/pubinfo/docs/Agricultural%20Water%20Use%20(1_07).PDF, Date accessed: May 5, 2008.

SRBC, 2008a. Middle Susquehanna Sub-basin, Sub-basin Information,. Susquehanna River Basin Commission, Website: http://www.srbc.net/subbasin/middlesus.htm , Date accessed: June 18, 2008.

SRBC, 2008b. Susquehanna River Basin, Information Sheet,. Susquehanna River Basin Commission, Website: http://www.srbc.net/pubinfo/docs/Susq%20River%20Basin%20General%20(11_06).PDF, Date accessed: June 19, 2008.

USEPA, 2008a. PPL Susquehanna, LLC; SSES, Units 1 & 2; Draft Environmental Assessment and Finding of No Significant Impact Related to the Proposed License Amendment to Increase Maximum Reactor Power Level. Website: http://www.epa.gov/fedrgstr/EPA-IMPACT/2007/December/Day-05/i23537.htm , Date accessed: February 5, 2008.

USGS, 2002. Water Resources Data New York Water Year 2002, Volume 3. Western New York, U.S. Department of the Interior, U.S. Geological Survey. Website: http://ny.water.usgs.gov/pubs/wdr/wdrny023/wdrny023.pdf, p. 75 - 77.

USGS, 2008a. Peak Streamflow for Pennsylvania USGS 01540500 Susquehanna River at Danville, PA, U.S. Geological Survey. Website: http://nwis.waterdata.usgs.gov/pa/nwis/peak?site_no=01540500&agency_cd=USGS&format=html Date accessed: January 25, 2008.

USGS, 2008b. Peak Streamflow for Pennsylvania USGS 01536500 Susquehanna River at Wilkes-Barre, PA, U.S. Geological Survey. Website: http://nwis.waterdata.usgs.gov/pa/nwis/peak?site_no=01536500&agency_cd=USGS&format=html Date accessed: January 25, 2008.

USGS, 2008c. USGS 01534490 Aylesworth Creek Lake, PA, U.S. Geological Survey. Website: http://waterdata.usgs.gov/pa/nwis/uv?site_no=01534490, Date accessed: April 4, 2008.

USGS, 2008d. USGS 01534180 Stillwater Lake, PA, U.S. Geological Survey. Website: http://waterdata.usgs.gov/pa/nwis/uv/?site_no=01534180&PARAmeter_cd=00062, Date accessed: April, 4, 2008.

USGS, 2008e. USGS 01517900 Tioga Lake at Tioga Dam, PA, U.S. Geological Survey. Website: http://waterdata.usgs.gov/pa/nwis/uv?site_no=01517900, Date accessed: April 4, 2008.

USGS, 2008f. USGS 01518498 Hammond Lake at Hammond Dam, PA, U.S. Geological Survey. Website: http://waterdata.usgs.gov/pa/nwis/uv?site_no=01518498, Date accessed: April 4, 2008.

USGS, 2008g. USGS 01519995 Cowanesque Lake, PA, U.S. Geological Survey. Website: http://waterdata.usgs.gov/pa/nwis/uv?site_no=01519995, Date accessed: April 4, 2008.

USGS, 2008h. USGS 01540500 Susquehanna River at Danville, U.S. Geological Survey. Website: http://waterdata.usgs.gov/nwis/nwisman/?site_no=01540500&agency_cd=USGS, Date accessed: January 22, 2008

USGS, 2008i. USGS 01536500 Susquehanna River at Wilkes-Barre, PA, U.S. Geological Survey. Website: http://waterdata.usgs.gov/nwis/nwisman/?site_no=01536500&agency_cd=USGS, Date accessed: January 22, 2008.}

2.4.2 FLOODS

The U.S. EPR FSAR includes the following COL Item in Section 2.4.2:

> A COL applicant that references the U.S. EPR design certification will identify site-specific information related to flood history, flood design considerations, and effects of local intense precipitation.

This COL item is addressed as follows:

This section identifies historical flooding at the site and in the region of the site. It summarizes and identifies individual flood types and combinations of flood producing phenomena in establishing the flood design basis for safety-related plant features. This section also covers the potential effects of local intense precipitation. Although topical information is discussed in Section 2.4.3 through Section 2.4.7 and Section 2.4.9, the types of events considered and the controlling event are reviewed in this section.

{References to elevation values in this section are based on the National Geodetic Vertical Datum of 1929 (NGVD 29), unless stated otherwise.

Section 2.4.2.1 through 2.4.2.4 are added as a supplement to the U.S. EPR FSAR.

2.4.2.1 Flood History

BBNPP will be located on a relatively flat upland area 174 ft (53 m) above the North Branch of the Susquehanna River (NBSR) water level. The proposed BBNPP Circulating Water System (CWS) Makeup Water Intake Structure is approximately 22 mi (35 km) downstream of Wilkes-Barre, PA and 5 mi (8 km) upstream of Berwick, PA. The BBNPP site is situated in the Walker Run watershed, which has a drainage area of 4.10 mi^2 (10.61 km^2). Walker Run flows along the western side of the BBNPP site and discharges into the Susquehanna River at approximately river mile 164 (264 km). The “Unnamed Tributary No. 1” (see Figure 2.4-3) flows along the south/southeast boundary of the site and discharges into Walker Run approximately 600 ft (183 m) south of the BBNPP site. Flood potential from Walker Run is discussed in Section 2.4.3.

The closest gauging stations to the BBNPP in the Susquehanna River are United States Geological Survey (USGS) stations at Wilkes-Barre, PA (number 1536500) and Danville, PA (number 1540500), which are upstream and downstream of river mile 164 (264 km) (the confluence of Walker Run), respectively (see Figure 2.4-7).

Guaging of the Susquehanna River on a continuous basis began in 1900 at Wilkes-Barre and 1905 at Danville. The 1972 flood that occurred throughout the Mid-Atlantic United States as a result of Hurricane Agnes is the most significant flood event on record. The critical factor affecting the record flooding was the near continuous nature of rainfall during Hurricane Agnes. From June 20-25, 1972 an average of 6-10 inches (15-25 cm) of rain fell over the Mid-Atlantic region (NOAA, 2008). These high rainfalls produced record flooding on the Susquehanna River, equaling or exceeding flood recurrence intervals of 100 years along portions of Susquehanna River (NOAA, 2008). The 1972 flood generated peak stream flows of 345,000 cfs (9,769 m^3/s) at Wilkes-Barre on June 24th and 363,000 cfs (10,279 m^3/s) at Danville on June 25th (USGS, 2008a)(USGS,2008b). On June 25, 1972 a river crest of 517.35 ft (157.7 m) msl and mean daily flow of 329,837 cfs (9,340 m^3/s) was recorded near the SSES intake structure (Ecology III, 1986).

At Wilkes-Barre, the maximum recorded flood level was 40.91 ft (12.47 m) (elevation 551.77 ft, 168.18 m) msl, recorded on June 24, 1972. In Danville, the maximum flood level, 32.16 ft (9.80 m) (elevation 463.45 ft , 141.26 m) msl, was recorded on June 25, 1972. Maximum stream flow records are presented and discussed for both stations in Section 2.4.1. Figure 2.4-20 shows the recorded peak streamflow for Wilkes-Barre and Danville gauging stations (USGS, 2008a and 2008b).

The probable magnitude and frequency of floods on the Susquehanna River have been evaluated by the USGS based on the historical record of floods at Wilkes-Barre and Danville stations on the Susquehanna River.

The most common type of flooding that occurs in the Susquehanna River is the result of runoff from the large contributing drainage area due to heavy rainfall and snowmelt during the spring and early summer seasons. During a large flood, the Susquehanna River spills over its banks onto the broad floodplain areas of the valley. Aylesworth Creek Dam and Stillwater Dam are the only significant water control structures with flood control storage capacity within the Middle Susquehanna Sub-basin. There are no dams present in the Walker Run watershed.

As discussed in Section 2.4.7, ice sheets have formed on the Susquehanna River on more than one occasion. Despite the formation of ice on the Susquehanna River, there have been no instances of ice jams or ice induced flooding at the existing Susquehanna SES Units 1 and 2 intake. Further details of historic ice sheets and ice effects are discussed in Section 2.4.7.

Landslides (submarine or subaerial) have occurred in the vicinity of the BBNPP site but have not caused any flooding impacts at the existing SSES Units 1 and 2. Landslide impacts are further discussed in Section 2.4.9.

2.4.2.2 Flood Design Considerations

The design basis flood elevation for the BBNPP site is determined by considering a number of different flooding possibilities. The possibilities applicable and investigated for the site include the Probable Maximum Flood (PMF) on streams and rivers, potential dam failures, probable maximum surge and seiche flooding, probable maximum tsunami, and ice effect flooding. Each of these flooding scenarios was investigated in conjunction with other flooding and meteorological events, such as wind generated waves, as required in accordance with guidelines presented in ANSI/ANS 2.8-1992 (ANS, 1992). Detailed discussions on each of these flooding events and how they were estimated are found in Section 2.4.3 through Section 2.4.7. Adequate drainage capacity will be provided to prevent flooding of safety-related facilities and to convey storm water runoff from the roofs and buildings away from the plant site area. Stormwater from the roof drains will be drained through the downspouts for each of the plant buildings and will be collected and routed into the drainage system.

The estimation of the PMF water levels on Walker Run located near the BBNPP site is discussed in detail in Section 2.4.3. Section 2.4.3 describes the Walker Run watershed model developed to determine the hydrographs and peak flows. The scope of this calculation includes the HEC-HMS 3.1.0 evaluation of the all-season Probable Maximum Storm (PMS) to develop the flood elevations at the BBNPP site.

On June 25,1972 a river crest of 517.36 ft (157.69 m) msl was recorded near the SSES intake structure (Ecology III, 1986).

The BBNPP plant grade elevation is 674 ft (205.4 m) msl, which is 156.64 ft (47.74 m) higher than the highest recorded water level. Therefore it is anticipated that the Susquehanna River flooding does not affect the plant. Only a localized PMP storm was considered for flood design protection of safety-related facilities. The plant grade is about 3 ft (1 m) above the PMF of Walker Run (Section 2.4.3), and extreme floods on the tributary creeks would not affect the site. However, potential flooding conditions in Walker Run were analyzed in Section 2.4.3.

Probable maximum surge and seiche flooding on the Susquehanna as a result of the probable maximum hurricane is discussed in Section 2.4.5. Because of the location of the BBNPP site relative to the nearest coast and the elevation of the plant site relative to the Susquehanna River, storm surge and seiche flooding considerations are not applicable for this site.

Section 2.4.6 describes the derivation of the Probable Maximum Tsunami (PMT) flooding. The potential of Tsunami events that could affect the BBNPP site caused by local or distant seismic activities is negligible. The BBNPP site is far inland from the coastal line (approximately 107 mi (172 km) inland from the nearest coast which is the Chesapeake Bay) to suffer from any tsunami flooding. Thus, the PMT does not pose a flood risk to the BBNPP site.

The maximum water level due to local intense precipitation or the local Probable Maximum Precipitation (PMP) is estimated and discussed in Section 2.4.2.3. The maximum water level in the BBNPP power block area due to the local 1 hour 1 mi^2 PMP event is at elevation 670.66 ft (204.42 m) msl. This water level becomes the design basis flood elevation for all safety-related facilities in the power block area. All safety-related building entrances in the power block are located above this elevation at an elevation of 674.0 ft (205.4 m) msl.

The post-construction grading of the BBNPP site directs runoff from plant north to plant south with drainage ditches collecting storm water and diverting flow to Stormwater Pond #1 and Stormwater Pond #2. The parking lot area located south of the power block and switchyard is the only exception to this site drainage pattern, draining runoff from plant south to plant north into collection ditches that direct all flow to Stormwater Pond #1. The direction of all runoff flow at the BBNPP site can be seen in Figure 2.4-4. Therefore, potential local flooding, even from extremely heavy rainfall, will be controlled by the plant site drainage system, as discussed in Section 2.4.2.3.

2.4.2.3 Effects of Local Intense Precipitation

The 1-hour Probable Maximum Precipitation (PMP) event is the worst-case scenario when analyzing the sub-basins containing all safety-related structures since peak discharges are higher due to the extreme intensity of rainfall over a short duration, causing water surface levels to rise higher during the runoff process. Under the assumption that no losses occur, the 72-hour PMP event is the worst-case scenario when analyzing the ESWEMS Retention Pond since it generates more total rainfall than the 1-hour PMP event. The design basis for local intense precipitation is the all-season Probable Maximum Storm (PMS) as obtained from the U.S. National Weather Service (NWS) Hydro-meteorological Report Number 52 (HMR-52) (NOAA, 1982). The cumulative storm hyetograph for the 1-hour PMP event is generated by using ratio analysis to obtain the 5-minute, 15-minute and 30-minute PMP from the Hydro-meteorological Report Number 52 (HMR-52) once the 1-hour PMP is determined (NOAA, 1982). The 1-hour cumulative rainfall hyetograph is used as the time-series input when conducting the BBNPP site drainage system Probable Maximum Flood (PMF) analysis in the Hydrologic Engineering Center Hydrologic Modeling System Version 3.1.0 (HEC-HMS 3.1.0) (USACE, 2006). Table 2.4-18 shows the PMP depths obtained from the HMR-52 for the 1-hour storm event. The 72-hour cumulative rainfall heytograph is determined over the Walker Run Watershed drainage area using the HMR-52 computer program. The 72-hour cumulative rainfall heytograph is used as the time-series input when conducting the ESWEMS Retention Pond Probable Maximum Flood (PMF) analysis in HEC-HMS 3.1.0 (USACE, 2006). Table 2.4-19 (NOAA, 1978) shows the Probable Maximum Precipitation (PMP) depths obtained from the HMR-51 report for the 72-hour storm event (NOAA, 1978).

The site layout and drainage system are shown in Figure 2.4-4. The proposed post-construction site grading directs runoff from plant north to plant south with drainage ditches collecting storm water and diverting flow to Stormwater Pond #1 and Stormwater Pond #2. The parking lot area located south of the power block and switchyard is the only exception to this site drainage pattern, draining runoff from plant south to plant north into collection ditches that direct all flow to Stormwater Pond #1.

As indicated in Figure 2.4-4, the containment, fuel and safeguard buildings are located in the center and along the high point of the BBNPP power block area at an elevation of 674 ft (205.4 m) msl. From the high point, site grading directs runoff towards drainage ditches located on the eastern, western, and southern sides of the power block which route all flow west of the power block to Stormwater Pond #1. Grading in the vicinity of the safety-related structures slopes away from the individual structures such that PMP ground and roof runoff will sheet flow away from each of these structures towards the collection ditches. Thus, sheet flows are prevented from entering the structures. To evaluate the site drainage during the PMF scenario, the BBNPP site was divided into seven sub-basins. The drainage areas for these sub-basins are shown in Figure 2.4-3 and presented in Table 2.4-20. As shown in Figure 2.4-4, only the runoff from the Switchyard Extension Sub-basin is diverted to Stormwater Pond #2, which is located east of the proposed BBNPP site. Runoff that is generated within the Power Block, Switchyard, ESWEMS Retention Pond, Wetlands Area, Parking Lot and Waste Disposal Area Sub-basins is directed to Stormwater Pond #1.

Peak water levels generated by the PMP within the BBNPP site, including the increase in Water Surface Elevation (WSE) that occurs within the power block area (evaluated using the 1-hour PMP data shown in Table 2.4-18) and the ESWEMS Retention Pond (evaluated using the 72-hour PMP data shown in Table 2.4-19), were determined by performing a hydrologic runoff analysis. The U.S. Army Corps of Engineers (USACE) computer program HEC-HMS (USACE, 2006) was used to develop the hydrologic model and determine the peak WSE within each of the seven sub-basins that make up the BBNPP site: the Power Block, Switchyard, Switchyard Extension, ESWEMS Retention Pond, Wetlands Area, Parking Lot and Waste Disposal Area (see Figure 2.4-21). Ground cover in the power block consists of primarily two types of surface characteristics, namely: 1) developed impervious area and 2) gravel surface on compacted fills. For the assessment of the PMF levels, all areas within the BBNPP site are assumed to be impervious, all overflow pipes and culverts in the drainage system are assumed to be clogged as a result of ice or debris blockage, and all drainage ditches are assumed to be full in order to simulate the "worst-case-scenario" site drainage condition. With all culverts completely blocked, open channel drainage ditches and their surrounding areas will act as small isolated reservoirs for the runoff from their respective drainage areas; assuming the conditions that all areas are impervious and all drainage ditches are full allows all rainfall to be converted into runoff. In addition to site drainage ditches, the Vehicle Barrier System (VBS) was included as part of the 1-hour PMP storm analysis of the BBNPP site drainage system. The VBS openings have been modeled at strategic elevations to accommodate the PMP runoff.

The methodologies suggested by the U.S. National Resources Conservation Service (NRCS) that are presented in the TR-55 Manual (USDA, 1986) were used to estimate the times of concentration (Tc) for the various sub-basins. To account for non-linearity effects during extreme flood conditions, the computed Tc was reduced by 25 percent in accordance with EM-1110-2-1417 (USACE, 1994). The lag time, estimated as 60 percent of Tc, (USACE, 2000) and the local intense precipitation presented in Table 2.4-18 and Table 2.4-19 were input to the USACE computer program HEC-HMS (USACE, 2006). A runoff curve number of 98, representing impervious surfaces (USDA, 1986), was conservatively used for the entire drainage area and also input into the HEC-HMS computer model. The NRCS dimensionless unit hydrograph option for developing peak discharges within the various sub-basins was utilized in HEC-HMS.

The runoff analysis was divided into three models: Series 1, Series 2, and Parking Lot ONLY. Series 1 takes into account the drainage area of the waste disposal sub-basin. Series 2 uses the outflow from Series 1 as an input to accommodate the VBS outflow into the power block sub-basin. The parking lot is modeled as a separate basin because, like the waste disposal sub-basin in the Series 1 basin model, surface runoff flows towards the power block and switchyard sub-basins; the VBS prevents parking lot runoff from discharging into the power block and switchyard. A schematic of the HEC-HMS model is shown in Figure 2.4-22 and the peak discharges that develop in each modeled sub-basin are presented in Table 2.4-21.

The effect of potential ice and debris blockage of storm drains, roof drains, culverts, and outlet pipes has been considered in the site PMP runoff analyses. As mentioned previously, all storm drains, outlet pipes, and culverts are assumed to be blocked for the PMP runoff analysis. Since all roof drains are considered blocked, runoff from roofs is assumed to be sheet flow over the edge of the roofs that contributes to the sheet flow runoff from each sub-basin. The runoff model does not consider any detention or storage for roof runoff. All runoff from roofs is included as direct runoff from the sub-basin drainage areas.

The safety-related structures in the BBNPP power block area consist of two ESWS Cooling Towers located in the northwest corner, two ESWS Cooling Towers located in the southeast corner, Emergency Diesel Generator Buildings located north and south of the Nuclear Island and the Reactor complex, which consists of the Reactor, Fuel and Safeguards Buildings. The locations of the buildings are shown on Figure 2.4-5. The entrances to each of these structures are located at or close to the grade slab elevation 674 ft (205.4 m). Table 2.4-22 gives the entrance elevations at the various safety-related facilities and compares them with the PMP water levels near those facilities. The maximum computed PMP water level in the Power Block Sub-basin is elevation 670.66 ft (204.42 m), which is 3.34 ft (1.02 m) below the reactor complex grade slab at elevation 674 ft (205.4 m).

The maximum computed PMP water level in the ESWEMS Retention Pond is elevation 672.13 ft (204.87 m), which is 1.87 ft (0.57 m) below the top of the dike at elevation 674 ft (205.4 m). Sufficient freeboard is maintained in the Waste Disposal Area, Switchyard, Switchyard Extension, Wetlands Area, and Parking Lot Sub-basins where peak PMP water levels are 673.25 ft (205.21 m), 673.11 ft (205.16 m), 675.02 ft (205.75 m), 666.57 ft (203.17m) and 670.62 ft (204.40m), respectively.

Based on the BBNPP power block grading, entrance locations, and peak PMP water levels in each sub-basin, all safety-related facility entrances are located above peak PMP water levels and collection ditches prevent PMP sheet flows from reaching safety-related entrances.

Flood protection measures are not required for the BBNPP ESWEMS. The grade level at the ESWEMS Retention Pond location is at elevation 674 ft (205.4 m) msl and elevation 674.5 ft (205.6 m) msl for the ESWEMS Pumphouse. The ESWEMS Pumphouse is 2.37 ft (0.72 m) above the estimated PMP. Therefore, flood protection measures are not required for these structures.

A general arrangement of the ESWEMS Pumphouse is shown on Figure 2.4-39. A plan view of the ESWEMS Pumphouse and section view are shown on Figure 9.2-5 through Figure 9.2-7.

The area surrounding the ESWEMS Retention Pond is graded so as to prevent surface runoff from entering the pond. A spillway will be provided to route excess water from the pond to the drainage ditches.

The BBNPP site drainage system is designed to convey runoff from a 100-year storm away from the plant area. The design rainfall intensities for a 100-year storm will be used for sizing drainage structures, culverts and ditches.

2.4.2.4 References

ANS, 1992. Determining Design Basis Flooding at Power Reactor Sites, ANSI/ANS 2.8-1992, American National Standard Institute/American Nuclear Society, July 1992.

Ecology III, 1986. Pre-Operational Studies of the Susquehanna River in the Vicinity of the Susquehanna Steam Electric Station, 1971-1982, Ecology III, Inc. December 1986.

NOAA, 1978. Probable Maximum Precipitation Estimates, United States East of the 105th Meridian, Hydrometeorological Report No. 51 (HMR-51), U.S. Department of Commerce, National Oceanic and Atmospheric Administration, June 1978.

NOAA, 1982. Application of Probable Maximum Precipitation Estimates - United States East of the 105th Meridian, Hydrometeorological Report Number 52 (HMR-52), National Oceanic and Atmospheric Administration, August, 1982.

NOAA, 2008. National Weather Service Middle Atlantic River Forecast Center, Website: http://ahps.erh.noaa.gov/marfc/Flood/agnes.html, Date accessed: February 7, 2008.

USACE, 1994. Flood-Runoff Analysis, EM 1110-2-1417, U.S. Army Corps of Engineers, August 1994.

USACE, 2000. HEC-HMS Technical Reference Manual, U.S. Army Corps of Engineers, Hydrologic Engineering Center, March 2000.

USACE, 2006. HEC-HMS, Hydrologic Modeling System, Version 3.1.0, U.S. Army Corps of Engineers, Hydrologic Engineering Center, April 2006.

USDA, 1986. Urban Hydrology for Small Watersheds, Technical Release 55, U.S. Department of Agriculture, Soil Conservation Service, June 1986.

USGS, 2008a. Peak Streamflow for Pennsylvania USGS 01536500 Susquehanna River at Wilkes-Barre, PA, Website: http://nwis.waterdata.usgs.gov/pa/nwis/peak?site_no=01536500&agency_cd=USGS&format=html Date accessed: January 25, 2008.

USGS, 2008b. Peak Streamflow for Pennsylvania USGS 01540500 Susquehanna River at Danville, PA, Website: http://nwis.waterdata.usgs.gov/pa/nwis/peak?site_no=01540500&agency_cd=USGS&format=html, Date accessed: January 25, 2008.}

2.4.3 PROBABLE MAXIMUM FLOOD (PMF) ON STREAMS AND RIVERS

The U.S. EPR FSAR includes the following COL Item in Section 2.4.3:

> A COL applicant that references the U.S. EPR design certification will provide site-specific information to describe the probable maximum flood of streams and rivers and the effect of flooding on the design.

This COL item is addressed as follows:

{References to elevation values in this section are based on the National Geodetic Vertical Datum of 1929 (NGVD 29), unless stated otherwise.

The proposed Bell Bend Nuclear Power Plant (BBNPP) site is located in Salem Township, Luzerne County, Pennsylvania on the west side of the North Branch of Susquehanna River as shown on Figure 2.4-23. The source of potential flooding at the proposed site is local intense precipitation directly over the site. This section discusses the Probable Maximum Flood (PMF) on streams and rivers as a result of the Probable Maximum Precipitation (PMP) over the watershed.

All runoff from the BBNPP site enters the North Branch Susquehanna River at the mouth of Walker Run. The BBNPP site sits on a relatively flat upland area about 174 ft (53 m) elevation above the nominal Susquehanna River level. The site is 22 mi (35 km) downstream of Wilkes-Barre, PA and 5 mi (8 km) upstream of Berwick, PA. The BBNPP site is situated in the Walker Run watershed, which is within the Middle Susquehanna River Sub-basin and has a drainage area of 4.10 mi^2 (10.6 km^2). Walker Run Stream flows along the western side of the BBNPP site. An Unnamed Tributary to Walker Run flows along the south/southeast boundary of the site.

Walker Run was analyzed for the Probable Maximum Flood (PMF) due to its proximity to the fact that the site lies within Walker Run Watershed. The analysis was based on the reroute of Walker Run to reflect the post-construction site layout as displayed in Figure 2.4-5. Walker Run flows towards the south until it converges with the Susquehanna River at approximately river mile 164 (km 264). Walker Run collects runoff from the area surrounding the plant site and also areas northwest, west, and southwest of the plant site. The total collection area for the Walker Run watershed is approximately 4.10 mi² (10.61 km²). Walker Run has a difference in elevation of approximately 290 ft (88 m) over its entire length with an overall slope of 1.5 percent. The PMF evaluation for SSES Units 1 & 2 showed the PMF elevation on the Susquehanna River would not reach an elevation of 548 feet. The site elevation for SSES Units 1 & 2 is 670 ft (204 m) msl. There is a 122 foot difference in elevation for the existing PMF evaluation and the site grade. BBNPP site elevation is 674 feet and after assessing the PMF evaluation, it is not possible for the PMF to increase to 126 feet to cause any flooding at the proposed BBNPP site (PPL, 1999). The Unnamed Tributary adjacent to the project site was modeled as a flow change location within the Hydrologic Engineering Center's River Analysis System Version 3.1.3 (HEC-RAS 3.1.3) at the corresponding cross section location 11,594. The Unnamed Tributary channel will be removed and the flow will be diverted to ESWEMS Retention Pond. All safety-related structures, systems, and components for BBNPP are located at approximately el. 674 ft (205.4 m) msl.

The 1972 flood that occurred throughout the Mid-Atlantic United States as a result of Hurricane Agnes is the most significant flood event on record. The critical factor affecting the record flooding was the near continuous nature of rainfall during Hurricane Agnes. From June 20 through June 25, an average of 6-10 in(15-25 cm) of rain fell over the Mid-Atlantic region (NOAA, 2008). These high rainfalls produced record flooding on the Susquehanna River, equaling or exceeding flood recurrence intervals of 100 years along portions of Susquehanna River (NOAA, 2008).

The 1972 flood generated peak stream flows of 345,000 cfs (9,769 m^3/s) at Wilkes-Barre on June 24th and 363,000 cfs (10,279 m^3/s) at Danville on June 25th (USGS, 2008a)(USGS,2008b). On June 25, 1972 a river crest of 517.36 ft (157.7 m) msl and mean daily flow of 329,837 cfs (9,340 m^3/s) was recorded near the SSES intake structure (Ecology III, 1986).

The results of the PMF analysis indicate a maximum PMF water surface elevation of 670.96 ft (204.51 m) msl at Walker Run. The grade elevation for the proposed BBNPP is set to 674 ft (205.4 m) msl, which provides an elevation difference of approximately 3.0 ft (0.9 m) between the BBNPP safety related structures, systems, and components and estimated PMF water level at Walker Run.

Section 2.4.3.1 through Section 2.4.3.7 are added as a supplement to the U.S. EPR FSAR.

2.4.3.1 Probable Maximum Precipitation (PMP)

The PMP was developed according to procedures outlined in the Hydrometeorological Report (HMR) Numbers 51 and 52 (NOAA, 1978; NOAA,1982). The PMP depths obtained from the isohyetal charts in the HMR-51 are presented in Table 2.4-23. The PMP hyetograph has been estimated based on the size, shape, and geographic location of the Walker Run watershed in accordance with the procedures outlined in the HMR-52 (USACE, 1984). The Walker Run watershed covers an area of 4.10 mi² (10.61 km²). The delineation of the watershed was manually digitized and is shown in Figure 2.4-24. The watershed was divided into three sub-basins (A1, A2, and A3) for the runoff computation model created in the Hydrologic Engineering Center's Hydrologic Modeling System Version 3.1.0 (HEC-HMS 3.1.0) (USACE, 2006a). The model is divided at the confluence of an unnamed drainage area and Walker Run just southeast of the site. Sub-basin A3 represents the drainage area of the Unnamed Tributary. Ground cover for all sub-basins primarily consists of woods and agricultural land. The drainage area for each sub-basin is listed in Table 2.4-24. A schematic of the HEC-HMS model setup is shown in Figure 2.4-24.

The distribution of the PMP storm was estimated using the procedures in HMR Numbers 51 and 52 (NOAA, 1978; NOAA,1982). Precipitation depth data is obtained from isohyetal charts presented in the HMR-51. This data, along with the watershed boundary coordinates and other parameters from the HMR-52 (i.e. storm orientation and rainfall duration data), were input into the HMR-52 computer model (USACE, 1984) and the PMP was computed. In determining the hyetograph for the site, HMR-52 composes 5-minute incremental precipitation depths for the input depth-duration curves and then arranges them in a pre-selected order. The maximum incremental depth is placed at the middle of the storm duration, with the remaining incremental depths arranged in descending order, alternating before and after the central incremental depth.

The HEC-HMS 3.1.0 model, developed by the USACE (USACE, 2006a), was used to simulate the routing of increased stream flow generated by the PMP in the Walker Run watershed. Only maximum all-season PMP distributions were considered, i.e., maximum fair weather, rainfall only distributions. The site is located within the 4.10 mi^2 (10.61 km^2) Walker Run watershed, so the short-duration intense summer rainfall storms would govern maximum runoff considerations. Table 2.4-24 (Walker run PMP Peak Flow Rates) provides all relevant information regarding the PMF runoff hydrograph since it points out all critical points (peak discharges and the time to peak) on the routed Walker run PMF hydrograph. In addition, the PMF hydrographs corresponding to hydrologic elements identified in Table 2.4-24 are shown in Figure 2.4-25 through Figure 2.4-29. Typically, snowmelt floods are critical for very large watersheds of thousands of square miles. Based on the historical snowfall information for the BBNPP site region in Section 2.3, snowmelt does not make a significant contribution to flooding situations. Therefore, antecedent snow-pack conditions have not been considered in the PMF analysis.

2.4.3.2 Precipitation Losses

Precipitation losses for the Walker Run watershed are determined using the Natural Resources Conservation Service (NRCS), formerly known as the Soil Conservation Service (SCS), runoff methodology (USDA, 1986). For this method, a composite runoff curve number (CN) is assigned to each sub-basin in the watershed. The CN is used to describe the sub-basin's capacity to absorb and retain precipitation or produce runoff. Runoff curve numbers range from about 30 to 100, with higher numbers producing more runoff and lower numbers producing more infiltration. Each composite CN is determined based on the sub-basin's surface soils, land cover, and antecedent moisture condition (dry, average, or wet).

The Walker Run watershed consists primarily of hydrologic group C soils and the cover conditions consist of wooded and agricultural areas. For the Walker Run watershed, an average CN of 76 was selected from the published values for the given soil and land cover conditions (USDA, 1986). Percentages of impervious areas were selected based on cover conditions. Impervious areas include open water bodies, roads, buildings, and the BBNPP site.

2.4.3.3 Runoff and Stream Course Models

A schematic of the HEC-HMS computer model for the Walker Run watershed is shown in Figure 2.4-24. The Clark unit hydrograph method (Clark, 1945)(Straub 2000) was used to transform rainfall to runoff by calculating discharge hydrographs for each sub-basin. There are no stream gages located within the watershed, so the methods of Straub (Straub, 2000) were used to estimate the Clark parameters for all sub-basin hydrographs.

There are no historical records available to verify the results of the runoff analysis. However, the Clark unit hydrograph method is accepted in many regions of the United States, including the Mid-Atlantic Region, to estimate basin runoff and peak discharges from precipitation events.

The 8-point Muskingum-Cunge Method was used for stream/floodplain routing through the stream network to the watershed outlet (Miller, 1975) (Ponce 1978). Base flow in Walker Run, which is on the order of 1 to 10 cfs (0.03 to 0.30 m^3/s), is considered negligible for these calculations.

2.4.3.4 Probable Maximum Flood Flow

The PMP peak discharge rates as calculated in HEC-HMS are summarized in Table 2.4-24. Runoff hydrographs for each junction and sub-basin are shown in Figure 2.4-25 through Figure 2.4-29.

As shown in Table 2.4-24, the peak flow rates for the various sub-basins occur at different times. The estimated flow rates for each sub-basin were used in the HEC-RAS 3.1.3 model (USACE, 2005a) to determine stream flood profiles and water surface elevations.

2.4.3.5 Water Level Determination

Maximum water levels along Walker Run were determined utilizing the standard step backwater method for natural channels as implemented in the HEC-RAS Version 3.1.3 (HEC-RAS) computer program developed by the U.S. Army Corps of Engineers (USACE, 2005a). Required input for HEC-RAS includes geometric cross section data, flow rates, roughness data, and boundary conditions.

The cross-section data was obtained from topographic maps developed for the site and U.S. Geological Survey (USGS) topographic maps (USGS, 1989a). The HEC-RAS computer model cross section locations for Walker Run are shown on Figure 2.4-30 to Figure 2.4-32.

Manning's roughness coefficients for the stream channel and floodplain were estimated based on visual observations and procedures outlined by the USGS (USGS, 1990). Roughness coefficient values of 0.035 for the main channel upstream and downstream of the plant, 0.06 for the main channel through the project area, and 0.1 for the floodplain areas were used in the HEC-RAS model. A weir coefficient of 2.6 was used for all bridges and culverts. The bridges were modeled using the culvert function within HEC-RAS due to the curvature of the bridge opening. However, after the bridges overtop, the bridge deck is considered to be a weir and a weir coefficient is necessary.

The downstream control point for the HEC-RAS computer model was defined as the Susquehanna River.

Using HEC-GeoRAS Version 4.1.1, the cross section cut lines were drawn through the stream centerline (USACE, 2005b). The cross sections were then developed from the USGS 30-meter Digital Elevation Map and selected at approximate 100 to 200 ft (30 to 61 m) increments throughout the length of the waterbody (USGS, 1989b).

A known water surface, representing the PMF elevation of the North Branch Susquehanna River, was used as the downstream boundary condition at the first cross section. A sensitivity analysis indicated that water levels within the BBNPP site are unaffected by differing water levels at the downstream control point. The sensitivity study performed consisted of increasing the downstream boundary condition (the Susquehanna River surface water elevation) in one foot increments until it reached ten feet above the SSES Units 1 & 2 PMF study and re-running the model at each increment to observe PMF water elevation changes within the BBNPP site.

The PMF flow rates for the Walker Run profiles listed in Table 2.4-25 are input into the HEC RAS model at the indicated cross section locations. The entire length of Walker Run was modeled in HEC-RAS (Figure 2.4-30 to Figure 2.4-32). The mixed flow option, which computes both sub-critical and super-critical flow regimes, was used to model the flood profiles.

The computed water surface elevations for each profile are summarized in Table 2.4-25. The maximum PMF water surface elevation for each cross section is presented in Table 2.4-25. The Walker Run surface water profile is shown in Figure 2.4-33.

From Table 2..4-24, the maximum water level in the area of the proposed BBNPP site during the PMF event from Walker Run is elevation 670.96 ft (204.51 m) msl at Cross Section 12,715. This is approximately 3 ft (1 m) below the plant grade elevation of 674 ft (205.4 m) msl.

2.4.3.6 Coincident Wind Wave Activity

Due to the high flow velocity of Walker Run perpendicular to the direction of the wind activity and the relatively short duration of high water elevation during a PMF event, the wind wave activity is negligble. Wind wave activity calculations are typical for standing water and are not applicable for relatively shallow, moving water with a short fetch. Thus, wave height estimation was not performed during the PMF evaluation of Walker Run.

2.4.3.7 References

Clark, 1945. Storage and the Unit Hydrograph, Transactions: American Society of Civil Engineers, Volume 110, p. 1419-1488, C.O Clark, 1945

Ecology III, 1986. Pre-Operational Studies of the Susquehanna River in the Vicinity of the Susquehanna Steam Electric Station, 1971-1982. Ecology III, Inc. December 1986.

Miller, 1975. Simplified Equations of Unsteady Flow, K. Mahmood and V. Yevjevich, eds., Unsteady Flow in Open Channels, Volume I, Water Resources Publications, Ft. Collins, Co., W.A. Miller and J.A Cunge,1975

NOAA, 1978. Probable Maximum Precipitation Estimates, United States East of the 105th Meridian, Hydrometeorological Report No. 51, U.S. Department of Commerce, National Oceanic and Atmospheric Administration, June 1978.

NOAA, 1982. Application of Probable Maximum Precipitation Estimates - United States East of the 105th Meridian, Hydrometeorological Report No. 52, U.S. Department of Commerce, National Oceanic and Atmospheric Administration, August 1982

NOAA, 2008. National Weather Service Middle Atlantic River Forecast Center, National Oceanic and Atmospheric Administration, Website: http://ahps.erh.noaa.gov/marfc/Flood/agnes.html, Date accessed: February 7, 2008.

PPL 1999. Susquehanna Steam Electric Station Units 1 and 2 Final Safety Analysis Report, Section 2.4 Hydrologic Engineering, Revision 62, Pennsylvania Power and Light, October 1999.

Ponce, 1978. Muskingum-Cunge Method with Variable Parameters, Journal of the Hydraulics Division, ASCE, 104(HY12), V.M. Ponce and V. Yevjevich, p 1663-1667, 1978.

Straub, 2000. Equations for Estimating Clark Unit-Hydrograph Parameters for Small Rural Watersheds in Illinois, Department of the Interior, Water-Resources Investigations Report 00-4184, Timothy D Straub, Charles S. Melching, and Kyle E. Kocher, 2000.

USACE, 1984. Hydrometeorological Report No. 52 (HMR-52): Probable Maximum Storm (Eastern U.S.), U. S. Army Corps of Engineers, Hydrologic Engineering Center, Water Resources Support Center, March 1984.

USACE, 2005a. HEC-RAS, River Analysis System, Version 3.1.3, U.S. Army Corps of Engineers, Hydrologic Engineering Center, May 2005.

USACE, 2005b. HEC-GeoRAS, Version 4.1.1, U.S. Army Corps of Engineers, Hydrologic Engineering Center, September 2005.

USACE, 2006a. HEC-HMS, Hydrologic Modeling System, Version 3.1.0, U.S. Army Corps of Engineers, Hydrologic Engineering Center, November 2006.

USDA, 1986. Urban Hydrology for Small Watersheds, Technical Release 55 (TR-55), U.S. Department of Agriculture, Natural Resources Conservation Service, June 1986.

USGS, 1989a. 7.5 Minutes Series Topographic Maps, Berwick, PA, Scale 1:24,000, U.S. Geological Survey, 1989.

USGS, 1989b. 7.5 Minutes Series Digital Elevation Map, Berwick, PA, U.S. Geological Survey, 1989.

USGS, 1990. Guide for Selecting Manning's Roughness Coefficients for Natural Channels and Flood Plains, Water-Supply Paper 2339, U.S. Department of the Interior, U.S. Geological Survey, July 1990.

USGS, 2008a. Peak Streamflow for Pennsylvania USGS 01540500 Susquehanna River at Danville, PA, U.S. Geological Survey, Website: http://nwis.waterdata.usgs.gov/pa/nwis/peak?site_no=01540500&agency_cd=USGS&format=html, Date accessed: January 25, 2008.

USGS, 2008b. Peak Streamflow for Pennsylvania USGS 01536500 Susquehanna River at Wilkes-Barre, PA, U.S. Geological Survey, Website: http://nwis.waterdata.usgs.gov/pa/nwis/peak?site_no=01536500&agency_cd=USGS&format=html, Date accessed: January 25, 2008.}**}**

2.4.4 POTENTIAL DAM FAILURES, SEISMICALLY INDUCED

The U.S. EPR FSAR includes the following COL Item for Section 2.4.4:

> A COL applicant that references the U.S. EPR design certification will verify that the site-specific potential hazards to safety-related facilities due to the seismically-induced failure of upstream and downstream water control structures are within the hydrogeologic design basis.

This COL item is addressed as follows:

{References to elevation values in this section are based on the National Geodetic Vertical Datum of 1929 (NGVD 29), unless stated otherwise.

The proposed Bell Bend Nuclear Power Plant (BBNPP) site is located in Salem Township, Luzerne County, Pennsylvania to the northwest of the NBSR as shown in Figure 2.4-23. Potential flooding at the proposed BBNPP site due to local intense precipitation falling directly onto the site and the resulting Probable Maximum Flood (PMF), as well as the PMF of nearby Walker Run, were discussed in Section 2.4.2 and Section 2.4.3 respectively. The safety risks associated with the potential dam failures upstream in the NBSR Basin must also be assessed. This section discusses the water control structures within the Susquehanna River Basin and potential impacts to the safety-related facilities on site that would occur in the event of simultaneous dam failures.

The site sits on a relatively flat upland area, with plant grade elevation 174 ft (53 m) above the Susquehanna River nominal water level. The BBNPP site River Intake Structure is approximately 22 mi (35 km) downstream of Wilkes-Barre, PA and approximately 5 mi (8 km) upstream of Berwick, PA. The BBNPP site is situated in the Walker Run watershed, which has a drainage area of 4.10 mi^2 (10.6 km^2). All watershed and sub-basin areas that are referred to in this section, as well as all upstream and downstream distances taken relative to the BBNPP site, were obtained using ArcGIS software (ESRI, 2007; SRBC, 2006a; SRBC, 2006b; NID, 2008; USGS, 1984). Walker Run flows along the western side of the BBNPP site. An "Unnamed Tributary No. 1" (see Figure 2.4-3) to Walker Run flows along the eastern and southern site boundaries and enters Walker Run on the southwest side of the site.

All safety-related facilities for BBNPP are located at approximately elevation 674 ft (205.4 m) msl. The most significant flood event on record is the 1972 flood which resulted from Hurricane Agnes and occurred throughout the Mid-Atlantic region of the United States. It generated peak stream flows of 345,000 cfs (9,769 m^3/s) at Wilkes-Barre on June 24th 1972 and 363,000 cfs (10,279 m^3/s) at Danville on June 25th, 1972. (USGS, 2008a)(USGS,2008b) On June 25, 1972 a river crest of 517.35 ft (157.69 m) msl was observed near the SSES Units 1 and 2 intake structure (Ecology III, 1986). This is approximately 157 ft (48 m) below the plant grade elevation 674 ft (205.4 m) msl.

Only one stream, Walker Run, was judged to be near enough to the BBNPP site to be analyzed for the PMF. Walker Run flows towards the south until it converges with the Susquehanna River at approximately river mile 164 (264 km). Walker Run collects runoff from the area surrounding the plant site and also areas north, west, and southwest of the plant site. The total drainage area of the Walker Run watershed is approximately 4.10 mi^2 (10.61 km^2). From Figure 2.4-25, the maximum water level in the area of the proposed BBNPP site during the PMF event from Walker Run is elevation 670.96 ft (204.51 m) msl at Cross Section 12,715. This is approximately 3 ft (1 m) below the plant grade elevation 674 ft (205.4 m) msl.

The Susquehanna River Basin has a delineated area of 27,501 mi^2 (71,227 km^2) (SRBC, 2006a). The location and extent of the Susquehanna River Basin and its six sub-basins are shown in Figure 2.4-34. Although many water control structures are located within the Susquehanna River Basin upstream from the site, only 11 significant multipurpose dams with flood control storage capacity are positioned on tributaries that drain directly into the Susquehanna River. There are no dams on the main stem of the Susquehanna River upstream from the BBNPP site. Only select upstream dams identified in Figure 2.4-35 were considered in this section regarding potential dam failures. There are no significant dams that provide flood control storage capacity on the Susquehanna River upstream from the BBNPP site. All available information in reference to the selected upstream dams, including pool elevations and storage volumes, is presented in Table 2.4-26.

Aylesworth Creek Dam and Stillwater Dam are the only significant multipurpose water control structures that provide flood protection within the Middle Susquehanna Sub-basin. The Middle Susquehanna Sub-basin covers an area of 3,771 mi^2 (9,763 km^2) (SRBC, 2006b). Aylesworth Creek Dam and Stillwater Dam are located about 50 mi (80 km) and 65 mi (105 km) upstream from the BBNPP site, respectively. The flood control storage volume for Aylesworth Creek Dam is approximately 3.32E10 ft^3 (9.40E8 m^3) and the Stillwater Dam has a flood control storage volume of approximately 5.23E8 ft^3 (1.48E7 m^3) (USGS, 2008c; USGS, 2008d).

All other significant upstream dams are located in different sub-basins relative to the BBNPP site: the Cowanesque, Hammond and Tioga Dams are located within the Pennsylvania portion of the Chemung Sub-basin, Almond Dam is in the New York portion of the sub-basin; all other dams are located in New York in the Upper Susquehanna Sub-basin (Figure 2.4-35). Among all the dams in the Chemung Sub-basin, the Cowanesque Dam is closest to the site with an approximate distance of 164 mi (264 km) upstream. Whitney Point Dam is the closest from the Upper Susquehanna Sub-basin with an approximate distance of 176 mi (283 km) upstream from the BBNPP site.

A simplified and conservative estimation of the discharge required by simultaneous upstream dam failures to raise the WSE near the BBNPP site to plant grade El. 674 ft (205 m) msl was conducted. A simplified cross-section of the Susquehanna River was developed using the bathymetry of the river (see Figure 2.4-10) and the width of the flood plain (see Figure 2.4-11 through Figure 2.4-14) near the BBNPP site. Assuming uniform open channel flow downstream, the conservative cross-section representing the Susquehanna River was analyzed using the Manning equation for two (2) different WSE scenarios: the maximum PMF water elevation on the Susquehanna River in the vicinity of the BBNPP site at 548 ft (167 m) msl (PPL, 1999b), and a WSE even with the plant grade El. 674 ft (205m) msl (Sargent and Lundy, 2008) which would cause flooding at the BBNPP site. By assuming the worst-case scenario in which the WSE in the

Susquehanna River near the BBNPP site is even with the maximum PMF water elevation of 548 ft (167 m) msl at the time all upstream dams fail, the discharge required to impact the BBNPP site can be determined by taking the difference between the two calculated flow rates under the assumption of uniform open channel flow downstream. Based on this analysis, a combined flow rate of 3.790E+9 cfs (1.073E+8 m^3/s) must be generated from the simultaneous failure of all significant upstream dams in order to cause flooding at the BBNPP site. This analysis does not take into account the losses that occur while the flow is being routed towards the BBNPP site

Using the reservoir storage information provided in Table 2.4-26, the possibility that the critical flow rate that would impact the BBNPP site (3.790E+9 cfs (1.073E+8 m^3/s)) resulting from the simultaneous failure of all significant upstream dams was analyzed. The combined storage volume for all upstream dams identified in Table 2.4-26, assuming that all reservoirs are filled to the flood control pool level, is 4.892E+10 ft^3 (1.385E+9 m^3) note that this does not include storage volumes for Genegantslet Lake, South Side and Plymouth Reservoir Dams since no information was available (see Figure 2.4-35)) (USGS, 2002 and USGS, 2008 c through g). Therefore, assuming that the combined flow rate generated by the simultaneous failure of all significant upstream dams is constant and equivalent to the calculated flow mentioned previously, it would take approximately 13 seconds for all upstream reservoirs to drain completely using the relationship t = V/Q (time to drain equals the total storage volume of the upstream reservoirs divided by the flow rate). Since it is not possible for all the reservoirs to drain that quickly, there is no threat to the BBNPP site. Due to the significant amount of freeboard between the maximum dam failure water level and the BBNPP site, wind wave activity would not jeopardize the safety-related facilities. Therefore, no additional flood wave analysis is necessary.

There are no dams within the Walker Run watershed. Although many water control structures are located within the Susquehanna River Basin upstream from the site, only eleven (11) significant multipurpose dams with flood control storage capacity are positioned on tributaries that drain directly into the Susquehanna River. Since all of these dams are far upstream relative to the BBNPP site (see Figure 2.4-15), there will be no impacts due to sedimention at the River Intake Structure following a simultaneous dam failure event.. Since the plant site is located above the floodplain of the Susquehanna River, the safety-related structures and functions would not be affected by sedimentation.

Since there will be a significant amount of freeboard between the BBNPP site and the maximum dam failure water level, no flooding will occur at the site.

The ESWEMS Retention Pond and Stormwater Pond #1 are the only waterbodies located near the Power Block. The ESWEMS Retention Pond and Stormwater Pond #1 will be excavated such that the required water volume is below site grade. Therefore, dam break analysis is not necessary. Flooding resulting from the failure of these storage structures will not impact the safety-related structures.

The first dam downstream from the BBNPP site on the Susquehanna River is the Adam T. Bower Memorial Dam, which is a temporary (or seasonal) inflatable dam that is used for recreational purposes. Failure of the Adam T. Bower Memorial Dam would not affect the water supply at the BBNPP site upstream since it does not have a large storage capacity.

2.4.4.1 References

Ecology III, 1986. Pre-Operational Studies of the Susquehanna River in the Vicinity of the Susquehanna Steam Electric Station, 1971-1982. Ecology III, Inc. December 1986.

ESRI, 2007. Street Map Pro [CD-ROM], 2007 State and County Boundaries, Roads, and Streams/Rivers, ESRI 2007.

NID, 2008. National Inventory of Dams (NID). Website: http://crunch.tec.army.mil/nidpublic/webpages/nid.cfm, Date accessed: February 2008.

PPL, 1999a. SSES Unit 1 & 2 FSAR Report, Rev. 54, Table 2.4-1, 10/99.

PPL, 1999b. SSES Unit 1 & 2 FSAR Report, Rev. 62, FSAR 2.4.3 Probable Maximum Flood (PMF) on Streams and Rivers, October 1999.

Sargent & Lundy, 2008. "Conceptual Grading and Drainage Plan" Drawings, Drawing No. 12198-004-CSK-006, Rev 4 (issued on July 15, 2008).

SRBC, 2006a. 2006 Susquehanna River Basin Boundary, Website: http://www.pasda.psu.edu/data/srbc/srb.zip, Date accessed: February 2008.

SRBC, 2006b. Subbains of the Susquehanna River, Website: http://www.pasda.psu.edu/data/srbc/subbasins.zip, Date accessed: February 2008.

USGS, 1984. Williamsport quadrangle, Pennsylvania (map). 1:100,000. 7.5 Minute Series. Reston, Virginia: USGS, 1984.

USGS, 2002. Water Resources Data New York Water Year 2002, Volume 3. Western New York, U.S. Department of the Interior, U.S. Geological Survey, Website: http://ny.water.usgs.gov/pubs/wdr/wdrny023/wdrny023.pdf, pp. 75 - 77.

USGS, 2008a. Peak Streamflow for Pennsylvania USGS 01540500 Susquehanna River at Danville, PA, U.S. Geological Survey, Website: http://nwis.waterdata.usgs.gov/pa/nwis/peak?site_no=01540500&agency_cd=USGS&format=html, Date accessed: January 25, 2008.

USGS, 2008b. Peak Streamflow for Pennsylvania USGS 01536500 Susquehanna River at Wilkes-Barre, PA, U.S. Geological Survey, Website: http://nwis.waterdata.usgs.gov/pa/nwis/peak?site_no=01536500&agency_cd=USGS&format=html, Date accessed: January 25, 2008.

USGS, 2008c. USGS 01534490 Aylesworth Creek Lake, PA, U.S. Geological Survey, Website: http://waterdata.usgs.gov/pa/nwis/uv?site_no=01534490, Date accessed: April 4, 2008.

USGS, 2008d. USGS 01534180 Stillwater Lake, PA, U.S. Geological Survey, Website: http://waterdata.usgs.gov/pa/nwis/uv/?site_no=01534180&PARAmeter_cd=00062, Date accessed: April, 4, 2008.

USGS, 2008e. USGS 01517900 Tioga Lake at Tioga Dam, PA, U.S. Geological Survey, Website: http://waterdata.usgs.gov/pa/nwis/uv?site_no=01517900, Date accessed: April 4, 2008.

USGS, 2008f. USGS 01518498 Hammond Lake at Hammond Dam, PA, U.S. Geological Survey, Website: http://waterdata.usgs.gov/pa/nwis/uv?site_no=01518498, Date accessed: April 4, 2008.

USGS, 2008g. USGS 01519995 Cowanesque Lake, PA, U.S. Geological Survey, Website: http://waterdata.usgs.gov/pa/nwis/uv?site_no=01519995, Date accessed: April 4, 2008.**}**

2.4.5 PROBABLE MAXIMUM SURGE AND SEICHE FLOODING

The U.S. EPR FSAR includes the following COL Item for Section 2.4.5:

> A COL applicant that references the U.S. EPR design certification will provide site-specific information on the probable maximum surge and seiche flooding and determine the extent to which safety-related plant systems require protection. The applicant will also verify that the site-parameter envelope is within the design maximum flood level, including consideration of wind effects.

This COL item is addressed as follows:

{References to elevation values in this section are based on the National Geodetic Vertical Datum of 1929 (NGVD 29), unless stated otherwise.

Sections 2.4.5.1 through 2.4.5.6 are added as a supplement to the U.S. EPR FSAR.

2.4.5.1 Probable Maximum Winds and Associated Meteorological Parameters

The BBNPP site is located in Salem Township, Luzerne County, northeastern Pennsylvania. It lies on a relatively flat upland terrace, approximately 1.4 miles (2.3 km) west of the NBSR. The plant grade elevation will be 674 ft (205 m) msl (FSAR Section 2.5.4). The elevation of the Susquehanna River 100-yr floodplain, near the BBNPP CWS Makeup Water Intake Structure, is approximately 513 ft (156 m) msl (Federal Emergency management Agency (FEMA, 2008). The nominal water level of the Susquehanna River is 500 ft (152 m) msl. Thus, the BBNPP site is approximately 161 ft (49 m) above the Susquehanna River 100-yr floodplain and 174 ft (53 m) above the nominal Susquehanna River level (Figure 2.4-2). There are no major water bodies (e.g., greater than 10 acres (4 hectares) directly adjacent to or on the BBNPP site.

Site-specific characteristics of the regional climatology, including wind speeds and wind direction, are discussed in FSAR Section 2.3.

The BBNPP site lies approximately 107 mi (172 km) inland from the Chesapeake Bay, which is downstream from the BBNPP proposed intake structure. Because the plant site is more than 100 mi(161 km) from the nearest coast, and the elevation of the plant site is 161 ft (49 m) above the 100-yr floodplain of the Susquehanna River, and there are no major water bodies adjacent to the BBNPP site, potential storm surges or seiche flooding are not applicable considerations for this site and are not factors which could cause flooding.

Between 1851 and 2005, there have been 281 reported hurricanes that reached landfall on the continental U.S. (NOAA, 2007). The 1972 (June 21-24) flood that occurred throughout the Mid-Atlantic region as a result of Hurricane Agnes is known to be one of the most significant floods in recorded history of the area. The critical factor affecting the record flooding was the near continuous nature of rainfall during Hurricane Agnes. From June 21-25, an average of 6-10 inches (15-25 cm) of rain fell over the Mid-Atlantic region (NOAA, 2008). These high rainfalls produced record flooding on the Susquehanna River, equaling or exceeding flood recurrence intervals of 100 years along portions of the Susquehanna River (NOAA, 2008). Hurricane Agnes generated peak stream flows of 345,000 cfs (9,769 m^3/s) at Wilkes-Barre on June 24th and 363,000 cfs (10,279 m^3/s) at Danville on June 25th (USGS, 2008a)(USGS, 2008b). On June 25, 1972 a river crest of 517.35 ft (157.7 m) msl and mean daily flow of 329,837 cfs (9,340 m^3/s) was recorded near the SSES Units 1 and 2 Intake Structure (Ecology III, 1986). Potential flooding caused by hurricane and major storm events (i.e., flooding caused by heavy rainfall and runoff) is discussed in FSAR Section 2.4.2.

2.4.5.2 Surge and Seiche Water Levels

2.4.5.2.1 Historical Surges

Two hundred and eighty one hurricanes have been reported to reach the coast of the continental U.S. between 1851 and 2005 (NOAA, 2007). Because the BBNPP site is located approximately 107 mi (172 km) inland from the Chesapeake Bay, recorded storm surge and seiche water levels are not a factor which could cause flooding at the porposed BBNPP site.

2.4.5.2.2 Estimation of Probable Maximum Storm Surge

The probable maximum storm surge (PMSS) at the BBNPP site can be estimated by considering the most severe combination of the components of primary surge, cross wind effects, 10 percent exceedance high tide, and sea level anomaly. The BBNPP site lies approximately 107 mi (172 km) inland from the Chesapeake Bay, which is downstream from the BBNPP. Because the plant site is more than 100 mi from the nearest coast, and the elevation of the plant site is 161 ft (49 m) above the 100-yr floodplain storm surges or seiche flooding are not applicable considerations for this site and are not factors which could cause flooding.

2.4.5.3 Wave Action

The only body of water on the BBNPP site is the Essential Service Water Emergency Makeup System (ESWEMS) Retention Pond. The BBNPP ESWEMS Retention Pond at normal water level of 669 ft (204 m) msl, has a volume of about 76.6 acre-feet (98,823 m^3). An un-isolatable overflow spillway has a crest at elevation of 672 ft (204.8 m) msl. The graded ground elevation around the ESWEMS Retention Pond provides a 4-ft (1.2 m) minimum freeboard at normal pond water level. In addition, the plant yard is graded away from the pond to prevent site runoff from entering the pond. The excavated pond slopes are covered with riprap for protection against wave action (Black & Veatch, 2008). The ESWEMS Retention Pond is a small body of water and is not subject to significant surge and seiches. Regulatory Guide 1.59 (NRC, 1977) defines the design basis considerations, with respect to flooding, for the ESWEMS Retention Pond. The derivation of probable maximum winds and wave runup are evaluated in FSAR Section 2.4.8.

2.4.5.4 Resonance

The BBNPP site lies approximately 107 mi (172 km) inland from the Chesapeake Bay , which is downstream from the BBNPP site. Because the plant site is more than 100 mi (161 km) from the nearest coast, and the elevation of the plant site is 161 ft (49 m) above the 100-yr floodplain of the Susquehanna River, and there are no major water bodies adjacent to the BBNPP site, potential storm surges or seiche flooding are not applicable considerations for this site and are not factors which could cause flooding. Resonance of seiche oscillation will not occur because a seiche is not an applicable consideration at the BBNPP site.

2.4.5.5 Protective Structure

Flood protection measures for the ESWEMS makeup water intake structure are discussed in FSAR Section 2.4.10.

Because the BBNPP site is located on an elevated river terrace, approximately 161 ft (49 m) above the Susquehanna River floodplain and approximately 1.4 miles (2.3 km) west of the floodplain, progressive floodplain erosion will have no impact on the BBNPP site.

Erosion has occurred throughout the Susquehanna River basin over the past 13,000 years (i.e. since the last glacial advance) and will continue to happen.

2.4.5.6 References

Black and Veatch, 2008. Black and Veatch Drawing, 161642-1EMS-S1102, Plant Arrangement ESWEMS Pond Sections and Details, Revision 0, 2008.

Ecology III, 1986. Pre-Operational Studies of the Susquehanna River in the Vicinity of the Susquehanna Steam Electric Station, 1971-1982. December 1986.

FEMA, 2008. Flood Insurance Map, Luzerne County, Federal Emergency Management Agency, Website: http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&catalogId=10001&langId=-1, Date accessed: March 27, 2008.

NOAA, 2007. List of Hurricanes Landfalling in the Continental United States, National Oceanic and Atmospheric Administration, Website: http://www.aoml.noaa.gov/hrd/hurdat/ushurrlist.htm, Date accessed: September 4, 2007.

NOAA, 2008. Middle Atlantic River Forecast Center, Hurricane Agnes - National Oceanic and Atmospheric Administration. Website: http://ahps.erh.noaa.gov/marfc/Flood/agnes.html, Date accessed: February 7, 2008.

NRC, 1977. Regulatory Guide 1.59, Design Basis Floods for Nuclear Power Plant, Revision 2, U.S. Nuclear Regulatory Commission, 1977.

PPL, 1976. Ecological Studies of the North Branch Susquehanna River in the Vicinity of the SSES. Annual Report for 1975, Theodore V. Jacobsen, August 1976.

USGS, 2008a. Peak Streamflow for Pennsylvania USGS 01540500 Susquehanna River at Danville, PA, U.S. Geological Survey. Website: http://nwis.waterdata.usgs.gov/pa/nwis/peak?site_no=01540500&agency_cd=USGS&format=html Date accessed: January 25, 2008.

USGS, 2008b. Peak Streamflow for Pennsylvania USGS 01536500 Susquehanna River at Wilkes-Barre, PA, U.S. Geological Survey. Website: http://nwis.waterdata.usgs.gov/pa/nwis/peak?site_no=01536500&agency_cd=USGS&format=html Date accessed: January 25, 2008.

USGS, 2008j. River Observatories for Management Applications (ROMA) Project, Website: http://chesapeake.usgs.gov/ROMA/#Susquehanna, Date accessed August 22, 2008.}

2.4.6 PROBABLE MAXIMUM TSUNAMI FLOODING

The U.S EPR FSAR includes the following COL Item in Section 2.4.6:

> A COL applicant that references the U.S. EPR design certification will provide site-specific information and determine the extent to which the plant safety-related facilities require protection from tsunami effects.

The COL Item is addressed as follows:

This section develops the geohydrological design basis to ensure that any potential hazards to the structures, systems, and components important to safety due to the effects of a probable maximum tsunami are considered in the plant design.

{Section 2.4.6.1 through Section 2.4.6.8 are added as a supplement to the U.S. EPR FSAR.

2.4.6.1 Probable Maximum Tsunami

the BBNPP site is located in Salem Township, Luzerne County, northeastern Pennsylvania. It lies on a relatively flat upland terrace, approximately 1.4 miles (2.3 km) west of the NBSR. The plant grade elevation will be 674 ft (205 m) msl (Section 2.5.4). The elevation of the Susquehanna River 100-yr floodplain, near the BBNPP CWS Makeup Water Intake Structure, is approximately 513 ft (156 m) msl (FEMA, 2008). The nominal water level of the Susquehanna River is 500 ft (152 m) msl. Thus, the BBNPP site is approximately 161 ft (49 m) above the Susquehanna River 100-yr floodplain and 174 ft (53 m) above the nominal Susquehanna River level (Figure 2.4-5). There ar no major water bodies (e.g., greater tha 10 acres (4 hectares in area) directly adjacent to or on the BBNPP site. The BBNPP site lies approximately 107 mi (172 km) inland from the Chesapeake Bay, which is downstream from the BBNPP site.

Because the plant site is more than 100 mi from the nearest coast, the elevation of the plant site is 161 feet above the 100-yr floodplain of the Susquehanna River, and there are no major water bodies adjacent to the BBNPP site, potential tsunami events are not applicable considerations for this site and are not factors which could cause flooding.

The potential that tsunami events, caused by local or distant seismic activities, could affect the BBNPP site is negligible.

2.4.6.2 Historical Tsunami Record

A review of the National Geophysical Data Center (NGDC), indicates there are no records of major tsunamis in the USA with significant flooding impacts.

2.4.6.3 Tsunami Source Generators Characteristics

This section is not applicable as there is no risk of tsunami flooding at the site.

2.4.6.4 Tsunami Analysis

This section is not applicable as there is no risk of tsunami flooding at the site.

2.4.6.5 Tsunami Water Levels

This section is not applicable as there is no risk of tsunami flooding at the site.

2.4.6.6 Hydrography and Harbor or Breakwater Influences on Tsunami

This section is not applicable as there is no risk of tsunami flooding at the site.

2.4.6.7 Effects on Safety Related Facilities

This section is not applicable as there is no risk of tsunami flooding at the site.

2.4.6.8 HYDROSTATIC AND HYDRODYNAMIC FORCES

This section is not applicable as there is no risk of tsunami flooding at the site.

2.4.6.9 DEBRIS AND WATER-BORNE PROJECTILES

This section is not applicable as there is no risk of tsunami flooding at the site.

2.4.6.10 EFFECTS OF SEDIMENT EROSION AND DEPOSITION

This section is not applicable as there is no risk of tsunami flooding at the site.

2.4.6.11 CONSIDERATION OF OTHER SITE-RELATED EVALUATION CRITERIA

This section is not applicable as there is no risk of tsunami flooding at the site.

2.4.6.12 References

{**FEMA, 2008.** Flood Insurance Rate Map, Luzerne County. Website: http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&catalogId=10001&langId=-1, Date accessed: March 27, 2008.}

2.4.7 ICE EFFECTS

The U.S. EPR FSAR includes the following COL Items for Section 2.4.7:

> A COL applicant that references the U.S. EPR design certification will provide site-specific information regarding ice effects and design criteria for protecting safety-related facilities from ice-produced effects and forces with respect to adjacent water bodies.

> A COL applicant that references the U.S. EPR design certification will evaluate the potential for freezing temperatures that may affect the performance of the ultimate heat sink makeup, including the potential for frazil and anchor ice, maximum ice thickness, and maximum cumulative degree-days below freezing.

These COL items are addressed as follows:

As discussed in Section 2.4.1, the {BBNPP site is located in Northeast Pennsylvania near Berwick, PA in the township of Salem. The Susquehanna River lies about 1.3 miles (2.1 km) south and 1.7 miles (2.7 km) east of BBNPP site.} Figure 2.4-2 indicates the location of the site.

{Reference to elevation values in this section are based of the National Geodetic Vertical Datum of 1929 (NGVD), values unless otherwise stated.

2.4.7.1 Ice Conditions

Ice at a nuclear power plant site could occur in any one of the following forms:

- Surface ice and its associated forces
- Anchor ice formation on components
- Frazil ice that could clog intake flow passages
- Ice jams that could affect flow path to the water supply intake
- Breach of ice jams causing flooding at site
- Ice accumulation on roofs of safety-related structures and components
- Ice blockage of the drainage system causing flooding
- Ice accumulation causing reduction in water storage volume

Historical data characterizing ice conditions at the BBNPP site have been collected and the effects evaluated for the operation of BBNPP. These data include ice cover and thickness observations in the Susquehanna River, ice jam records, and air temperature measurements from the SSES Units 1 and 2 meteorological tower. There are no safety-related structures facilities that could be affected by ice-induced low flow of the Susquehanna River.

To assure the BBNPP safety-related Essential Service Water Emergency Makeup System (ESWEMS) would not be affected by surface ice, the possibility of ice jam formation and the potential for frazil ice were examined by estimating the maximum surface ice thickness that could form during the worst icing condition expected at the site. Ice-induced forces are accounted for in the design of the intake structure.

The storage capacity of the pond has been sized to accommodate more than the 27-day minimum requirement of makeup water including a conservative evaluation for water loss to ice cover. As a result, ice formation on the ESWEMS Retention Pond surface has been accounted for in determining, the minimum volume required during emergency.

2.4.7.2 Description of the Cooling Water Systems

The BBNPP Circulating Water System (CWS) is a closed-cycle using natural draft cooling towers for the heat sink. Makeup water to the cooling tower basins will be supplied from the CWS Makeup Water Intake Structure located along the Susquehanna River east of the BBNPP site. BBNPP cooling tower blowdown effluent is delivered to the Susquehanna River through a permitted discharge line.

The BBNPP also has a safety-related Essential Service Water System (ESWS) to provide cooling water to the Component Cooling Water System heat exchangers and to the emergency diesel generator cooling jackets to dissipate heat. The ESWS is a closed-cycle system that uses mechanical draft cooling towers for heat removal. These cooling towers provide the Ultimate Heat Sink (UHS) function.

The basins of the ESWS cooling towers are sized to provide sufficient water to permit the ESWS to perform its safety-related heat removal function for up to 3 days (72 hours) post accident under the worst anticipated environmental conditions without replenishment. Beyond the 72 hour post accident period, makeup water is supplied from the ESWEMS Retention Pond, a safety related structure located northeast of the Nuclear Island. Blowdown from the ESWS cooling towers is routed to the Waste Water Retention Basin via discharge lines connected to the natural draft cooling towers common blowdown effluent line. Water in the Waste Water Retention Basin is released to the Susquehanna River via an overflow weir.

2.4.7.3 Intake and Discharge Structures

The CWS Makeup Water System will supply makeup water to the natural draft cooling tower basins for the non-safety-related CWS. The Raw Water Supply Systen (RWSS) supplies makeup water to the safety-related ESWEMS Retention Pond. Both systems are housed in the CWS Makeup Water Intake Structure.

River gauge records show that freezing on the Susquehanna River between Wilkes-Barre and Danville gauging stations can be expected during winter months. However, is not anticipated to cause ice flooding to exceed the probable maximum high water elevation of 525 ft (160 m) msl established for final design of the BBNPP intake structure.

Plant effluent going back to the Susquehanna River from BBNPP consists of cooling tower blowdown from the CWS cooling towers and the ESWS cooling towers, and miscellaneous low volume wastewater streams from the Power Block. The blowdown line extends approximately 200 ft (61 m) into the Susquehanna River below the design minimum water level of 484 ft (148 m) msl. Ice or ice flooding will be no problem at the discharge structure, as the warm discharge water will keep the outfall open.

2.4.7.4 Historical Ice Formation

The climate of Pennsylvania is generally considered to have a humid continental type of climate. Based on air temperature data summaries collected at the SSES Units 1 and 2 meteorological tower from 2001 through 2007, the monthly average air temperature in the region ranges from about 28.6°F (-2°C) in January to 71.3°F (22°C) in July, while the monthly average minimum air temperature for December is 16.9°F (-8°C), January is 12.6°F (-11°C) and for February is 15.3°F (-9°C). In the recent years (2001-2007) the minimum average temperature during winter months (December, January, and February) has been around 14.9°F (-10°C).

Daily air temperatures measured at the SSES Units 1 and 2 meteorological tower indicate that below freezing temperatures occur typically between the months of November and March. However, maximum accumulated freezing degree-days, as defined in Section 2.4.7.6, occur mostly in December, January and February.

Flooding due to ice jams as a result of ice break-up can be a problem during the winter months. For instance, jamming may occur at locations where floating ice is retained at bridges. There are 13 recorded instances of ice jams near Wilkes-Barre in the Susquehanna River based on a search of the "Ice Jam Database" maintained by the U.S. Army Corps of Engineers Cold Regions Research and Engineering Laboratory (CRREL). Figure 2.4-38 illustrates ice jams within a 50-mile (80 km) radius. The most recent ice movement and ice jamming occurred on March 3, 2004 in the vicinity of Wilkes-Barre. Approximately 4.0 ft (1.2 m) of backwater was observed at the Wilkes-Barre USGS gauging station (USACE, 2008).

Ice accumulation on the transmission towers and switchyard of existing SSES Units 1 and 2 has sporadically occurred during freezing rainfall. To date, events such as these have not affected the operation of SSES Units 1 and 2 and are not anticipated to affect operation of BBNPP.

2.4.7.5 Frazil Ice

Research on the properties of frazil ice indicates that the nature and quantities of ice produced depends on the rate of cooling within a critical temperature range. Frazil ice forms when the water temperature is below 32°F (0°C), the rate of super cooling is greater than 0.018°F (-17.8°C) per hour in turbulent flows, and there is no surface ice sheet to prevent the cooling (USACE, 1991) (Griffen, 1973). This type of ice, which is in the shape of discoids and spicules (Griffen, 1973), typically forms in shallow flowing water, such as in rivers and lakes, when the flow velocity is approximately 2 ft/s (0.6 m/s) or higher (IAHR, 1970).

The ESWEMS Retention Pond arrangement with pump intakes approximately 30 ft (9 m) below the surface prevents any interruption of emergency water supply to the ESWS.

Neither frazil ice nor anchor ice have been observed in the intake structure of the existing SSES Units 1 and 2 since the start of operation. There is no public record of frazil or anchor ice obstructing other water intakes in the Susquehanna River. As a result, frazil ice or anchor ice is unlikely to occur to an extent that will affect the function of the makeup water intakes. The operating floor of the CWS Makeup Water Intake Structure is at elevation 528 ft (161 m) msl. Therefore, formation of frazil and anchor ice is not expected to impact operation of the intake system.

2.4.7.6 Surface Ice Sheet

Ice may form on the surface of the BBNPP ESWEMS Retention Pond during severe winter periods. Ice formation, however, does not affect the operation of the ESWEMS Retention Pond for the following reason: when the ESWS operates with such ice cover, water from the pond is withdrawn at a point approximately 24.5 ft (7.5 m) below the ice formation. Sufficient water volume is provided in the pond to preclude ice from reaching the pump intake during post-accident operation. This arrangement prevents any interruption of emergency water supply to the ESWS. Thus, there is no possibility for pump blockage by ice.

The pond structures at the water surface are in contact with surface ice that can form during prolonged subfreezing periods. Ice expansion and wind drag on the ice surface exert forces on these structures. The following sections address the approach used in evaluating the ice thickness and the forces on the ESWEMS Pumphouse and the pond outlet structure caused by the presence of ice.

Determination of the ice thickness in the ESWEMS Retention Pond is based on the analysis of monthly Accumulated Freezing Degree-Days (AFDD), defined as the summation of the difference between 32°F (0°C) and all recorded daily air temperatures below freezing (or the average daily temperature obtained from hourly data on record) for the months of December, January, and February.

Because the pump intakes are located approximately 3 ft (1 m) below the high water level of 525 ft (160 m) msl, the Susquehanna CWS Makeup Water Intake Structure will not be impacted by surface ice formation. Detailed information about the layout of the CWS Makeup Water Intake Structure is provided in Section 10.4.5.

The maximum ice thickness that could form in the Susquehanna River and the ESWEMS Retention Pond was estimated using historic air temperature data from the nearby SSES Unit 1 and 2 meteorological tower for the period of 2001 through 2007.

Surface ice thickness (t_i) can be estimated as a function of Accumulated Freezing Degree-Days (AFDD) using the modified Stefan equation (USACE, 2004), where C is a coefficient, usually ranging between 0.3 and 0.6 and AFDD is in °F days. For the Susquehanna River, a coefficient of 0.15 was used to provide a conservative estimation of the ice thickness ("Average River with Snow Condition;" Table 1; USACE, 2004). A value of 0.7 was used to estimate the ice thickness in the ESWEMS Retention Pond ("Average Lake with Snow Condition;" Table 1; USACE, 2004).

$t_i = C\ (AFDD)^{0.5}$

Accumulated Freezing Degree-Days are obtained for each winter month (December, January, and February) by summing the Freezing Degree-Days (FDD) for each month, which is the difference between the freezing point (32°F (0°C)) and the average daily air temperature (T_a):

$FDD = (32 - T_a)$

Table 2.4-28 summarizes the average accumulated Freezing Degree-Days for each winter month and the corresponding ice thickness estimate from 2001 to 2007 for the Susquehanna River. Table 2.4-29 summarizes the AFDD and estimated ice thickness from 2001 to 2007 for the ESWEMS Retention Pond. As indicated in Table 2.4-28, the monthly average AFDD is 190.4°F occurring in January with the corresponding ice thickness estimated to be 2.07 in (5.26 cm). Table 2.4-29 shows that the ESWEMS Retention Pond average ice thickness occurring in January is estimated to be 9.66 in (24.54 cm).

Effects of surface ice on Walker Run will not impact operation of the BBNPP, as Walker Run is not used a source of water for the plant.

To assure the BBNPP safety-related ESWEMS would not be affected by surface ice, the possibility of ice jam formation and the potential for frazil ice were examined by estimating the maximum surface ice thickness that could form during the worst icing condition expected at the site. The surface ice layer, when present, insulates and provides protection against the formation of frazil ice.

2.4.7.7 Ice Accumulation on the CWS Makeup Water Intake Structure and ESWS Cooling Tower Basins and Preventive Measures

The CWS Makeup Water Intake Structure and water discharge structures on the Susquehanna River are not safety-related structures. Even though the Susquehanna River is subject to ice formation during winter months, the CWS Makeup Water Intake Structure is not impacted. The CWS Makeup Water pumps are located approximately at 3 ft (1 m) above the designed high water level of 525 ft (160 m) msl established for final design of the intake structure. This design would not be subject to ice blockage or ice formed in the Susquehanna River.

Ice will not affect the discharge structure, as the warm discharge water will keep the outfall open.

For the ESWS cooling tower basins, measures will be taken to ensure that the basins underneath the cooling tower cells have a minimum of 72 hours water supply without the need for any makeup water during a design basis accident. As indicated in Section 2.4.7.2, any makeup water to the basin needed beyond the 72 hour, post accident period will be supplied from the BBNPP ESWEMS. In order to assure the availability of a minimum of 72 hours water supply in the ESWS cooling tower basins, the minimum volume in each basin will be established considering: (a) losses due to evaporation and drift under design basis accident conditions and design environmental conditions; (b) minimum submergence to avoid formation of harmful vortices at the pump suction; and (c) the operational range for basin water levels. During extreme cold weather conditions, operational controls will be implemented, as required, to assure the availability of the required volume. Tower operations during cold weather will mitigate ice buildup consistent with vendor recommendations (e.g., periodic fan operation in the reverse direction). Therefore, operational controls, together with system design features, will prevent ice formation in the ESWS Cooling Tower Basins as discussed in Section 9.2.5.

2.4.7.8 Effect of Ice on High and Low Water Levels and Potential for Ice Jam

Because the operating floor of the ESWEMS Pumphouse is at elevation 674.5 ft (205.6 m) msl, 5.5 ft (1.7 m) above the design normal water level of 669 ft (204 m) msl, and because the water will be drawn 0.5 ft (0.2 m) above finish grade of elevation 651.5 ft (198.6 m) msl, ice-induced low and high water levels will not affect the operation of the ESWEMS Pumphouse. The impacts of ice in the ESWEMS Retention Pond is described in Section 2.4.7.6 and the ESWS cooling tower basins are discussed in Section 2.4.7.7.

In addition, BBNPP surface runoff from the site vicinity drains into small streams which discharge into the Susquehanna River. Streams close to the site have small drainage areas and would not pose the potential of ice flooding at the site.

2.4.7.9 Effect of Ice and Snow Accumulation on Site Drainage

Air temperature measurements at the SSES Units 1 and 2 meteorological station indicate that mean daily temperatures at the site had periodically fallen below freezing for multiple consecutive days in winter. This introduces the possibility of ice blockage of small catch basins, storm drains, culverts and roof drains. The flood protection design of the BBNPP safety-related facilities assumes that all catch basins, storm drains, and culverts are blocked by ice, snow or other obstructions, rendering them inoperative during a local probable maximum precipitation (PMP) event; This is conservative in so far as a PMP is unlikely to occur during freezing condition. Details of the local PMP analyses and flood protection requirements for the site are discussed in Section 2.4.2 and Section 2.4.10. Therefore, temporary blockage of site drainage areas due to ice will not affect the operation of safety-related facilities.

2.4.7.10 Ice and Snow Roof Loads on Safety Related Structures

Acceptable roofing structure performance for each safety-related roof is described in Section 2.3.1.

2.4.7.11 References

Griffen, 1973. The Occurrence and Prevention of Frazil Ice at Water Supply Intakes, Research Branch Publication Number W43, Toronto Ministry of the Environment, A. Griffen, 1973.

IAHR, 1970. International Association of Hydraulic Engineering and Research, ICE Symposium, Heat Exchange and Frazil Formation, Reykjavik, T. Carstens, 1970.

USACE, 1991. Cold Regions Research and Engineering Laboratory, Frazil Ice Blockage of Intake Trash Racks, Technical Digest Number 91-1, U.S. Army Corps of Engineers, S. Daly, March 1991.

USACE, 2004. Method to Estimate River Ice Thickness Based on Meteorological Data, ERDC/CRREL Technical Note 04-3, U.S. Army Corps of Engineers, June 2004. http://www.crrel.usace.army.mil/library/technicalnotes/TN04-3.pdf

USACE, 2008. Ice Jam Database, Cold Regions Research and Engineering Laboratory (CRREL). Website: https://rsgis.crrel/usace.army.mil/icejam/ Date accessed: December 26, 2007.}

2.4.8 COOLING WATER CANALS AND RESERVOIRS

The U.S. EPR FSAR includes the following COL Item for Section 2.4.8:

> A COL applicant that references the U.S. EPR design certification will provide site-specific information and describe the design basis for cooling water canals and reservoirs used for makeup to the UHS cooling tower basins.

This COL Item is addressed as follows:

{References to elevation values in this section are based on the National Geodetic Vertical Datum of 1929 (NGVD 29), unless otherwise stated.

Section 2.4.8.1 through Section 2.4.8.3 are added as a supplement to the U.S. EPR FSAR.

2.4.8.1 Cooling Water Design

BBNPP does not include any safety-related canals used to transport water. The non-safety-related Circulating Water System (CWS) Makeup Water Intake Structure is located on the North Branch of the Susquehanna River and water is conveyed to the BBNPP power block via pipeline. The safety-related Essential Service Water Emergency Makeup System (ESWEMS) for BBNPP will be located in the Walker Run watershed within the power block area.

The volume of liquid water stored in the ESWEMS Retention Pond that comprises part of the UHS should be sufficient to meet all safety-related water supply requirements after accounting for loss in storage capacity due to seepage, sedimentation, evaporation, ice sheet formation, and other causes. The makeup to the ESWEMS Retention Pond is from filtered Raw Water Supply System, therefore, sedimentation is not a problem. In addition, the pond will be below site grade and only precipitation or pumped in water will fill the ESWEMS Retention Pond, so sedimentation is not expected to be a problem. The slopes are protected with rip-rap; therefore, erosion is not expected to be a problem. The volume of water required with associated margins for losses is discussed in Section 9.2.5 and U.S. EPR FSAR Section 9.2.5.

The natural soils are granular, therefore, cohesive fill will be utilized for the ESWEMS Retention Pond to hold water. Geotechnical properties of the fill are discussed in Section 2.5.4. The original design assumed the pond bottom would consist of a compacted clay liner of approximately 3 ft (1 m). The cohesive fill will actually go down to bedrock. Thus, a 3 ft (1 m) thickness is a conservative assumption.

The ability of the cohesive fill to hold water will be confirmed during construction when the permeability of the cohesive fill used to construct the pond can be determined. Assumed seepage losses have been considered in the water volume calculations.

The ESWEMS Retention Pond will be excavated such that the required water volume is below site grade. Although the required volume will be below site grade and a slope failure will not present a hazard to downstream residents, a slope failure may rupture the clay liner, resulting in loss of the ESWEMS Retention Pond.

Therefore, the ESWEMS Retention Pond slopes will have adequate safety factors for end of construction, steady state seepage, sudden drawdown, and earthquake loading conditions, as discussed in Section 2.5.5.

The ESWEMS Retention Pond design must ensure that the capability to perform their safety-related function is maintained during the most severe credible natural phenomena in combination with normal operations, anticipated operational occurrences, or accident condition. With respect to the most severe natural occurrences, design with respect to storm surges and seiches is discussed in Section 2.4.5, design with respect to tsunami hazards is discussed in Section 2.4.6, and design with respect to ice hazards is discussed in Section 2.4.7.

2.4.8.2 {Reservoirs

The ESWEMS Retention Pond is the only proposed reservoir on the site. In the event of a design basis accident, the ESWEMS Retention Pond provides water for the post-accident period beyond the first 72 hours. The ESWEMS Retention Pond is excavated to a total depth of 22.5 ft (6.9 m) with side slopes of 3 horizontal to 1 vertical. The storage capacity of the pond at the normal water level of elevation 669 ft (204 m) msl is 76.6 acre-feet (98,823 m^3). During post accident conditions, the ESWEMS Retention Pond is utilized to supply makeup water to the ESWS cooling towers. Figure 2.4-39 shows the schematic layout of the ESWEMS Retention Pond.

A description of the BBNPP ESWEMS Retention Pond is provided in Section 9.2.5 and Section 3.8. Hydrologic conditions during PMP and coincident wind wave activities are discussed in Section 2.4.8.2.1. Consideration of probable maximum wind is discussed in Section 2.4.8.2.2. These conditions were evaluated at a water level corresponding to elevation 669 ft (204 m) msl to minimize the possibility of inadvertent discharges through the outlet structure.

2.4.8.2.1 Probable Maximum Flood Design Considerations

Site grading at the ESWEMS Retention Pond will prevent surface water from outside of the ESWEMS Retention Pond from entering the ESWEMS Retention Pond; therefore, the ESWEMS Retention Pond spillway discharge capacity and freeboard will be designed for the PMP as provided in Section 2.4.2. For the ESWEMS Retention Pond with a water level of elevation 669 ft (204 m) msl, the probable maximum water level due to a 72-hour PMP on the ESWEMS Retention Pond and outflow over the 6-foot (2 m) wide, broad-crested weir spillway reaches elevation 672.13 ft (204.87 m) msl. This is delineated in Table 2.4-30, as discussed in Section 2.4.8.2.2 (NOAA, 1978). Several wind scenarios were analyzed Table 2.4-31 coincident with the maximum probable water level of elevation 672.13 ft (204.87 m) msl to ensure that the ESWEMS Retention Pond does not overtop. Results of these scenarios are presented in Table 2.4-32. The fastest annual wind of 57 mph (92 km/hr) results in a freeboard requirement of 0.59 ft (0.18 m), which brings the ESWEMS water level to elevation 672.72 ft (205.05 m) msl. For the 1,000 yr recurrence interval, the freeboard requirement is 1.30 ft (0.40 m) bringing the water level at the ESWEMS Retention Pond to elevation 673.43 ft (205.26 m) msl, as discussed in Section 2.4.8.2.1.2

2.4.8.2.2 Water Level Determination

The ESWEMS Retention Pond's hydrologic design is controlled by the PMP and its associated water level. The 72-hour PMP on the ESWEMS Retention Pond is distributed as shown in Table 2.4-30, utilizing Hydrometeorological Report Number 52 (NOAA, 1984). The resulting rainfall is converted to equivalent inflow to the pond to determine the maximum resulting water level. The outlet structure, which is a 6.0 ft (1.8 m) wide broad-crested spillway, has a crest elevation of 672 ft (205 m) msl. The discharge coefficient used in the weir equation is 2.65 (Brater, 1976). Flood routing indicates that the probable maximum water level in the pond, during the 72-hr PMP, will reach elevation 672.13 ft (204.87 m) msl with a peak outflow of about 0.75 cfs (0.021 m^3/s) based upon an initial water level corresponding to 669 ft (204 m) msl.

The water level in the ESWEMS Retention Pond resulting from the 72-hr PMP event is greater when compared to rise in water levels resulting from a 1-hr PMP. Since the 1-hr PMP event generates maximum runoff over the BBNPP site, the corresponding data was used to develop the BBNPP site drainage model in Section 2.4.2. However, the 72-hr PMP data was used in this section to evaluate the wave runup in the ESWEMS Retention Pond since its results produces higher water surface elevations when compared to the 1-hr PMP event.

2.4.8.2.2.1 Coincident Wind Wave Activity

Discussion of wind wave activities is limited to the ESWEMS Retention Pond as the only safety-related hydrologic element at the site which is subject to wind wave activity.

As a conservative approach, the fastest mile wind speeds with a mean recurrence interval of 2, 10, 25, 50, 100, and 1,000 years were taken into account as occurring coincidentally with the probable maximum water level at its peak elevation (Thom, 1968). At this evaluated water level of 672.13 ft (204.87 m) msl, the ESWEMS Retention Pond has a water surface length of 688.78 ft (209.94 m), a width of 388.78 ft (118.50 m), and a depth of 20.6 ft (6.3 m). The designed BBNPP ESWEMS Retention Pond has a total depth of 22.5 ft (6.9 m) with side slopes of 3 horizontal to 1 vertical and surface dimensions of 700 ft (213 m) by 400 ft (122 m).

Wind setup is calculated by following U.S. Army Corps of Engineers (USACE,1997) guidance.

$$S = \frac{U^2 F}{1400D} \qquad \text{Equation 2.4.8-1}$$

Where U is average wind velocity in miles per hour, F is wind tide fetch in miles, and D is the average depth in feet. The wind tide fetch F is usually taken to be twice the distance of the maximum effective fetch F_e, which is the distance over which wind can travel unobstructed across a body of water. F_e was estimated to be the maximum water surface length of 688.78 ft

(209.94 m). The maximum fetch distance was doubled to obtain the wind tide fetch *F*. Table 2.4-31 shows the wind speed, effective fetch, wind tide fetch, average depth and wind setup for each of the scenarios.

Several hydrometeorological events were considered in the analysis occurring coincidentally with the probable maximum water level at elevation 672.13 ft (204.87 m) msl.

The calculation of wave runup involves finding the significant wave height and period based on fetch length and wind speed. Then, the determination of the wave runup is based on the characteristics of the wave and embankment slope. Coastal Engineering Manual, EM 1110-2-1100, (USACE, 2006) provides guidance for this process. EM 1110-2-1100 describes the following procedure for calculation of shallow water wave heights and periods:

1. Determine the straight line fetch and over water wind speed;
2. Using the fetch and wind speed from (1), estimate the wave height and period from deepwater nomograms;
3. Compare the predicted wave period from (2) to the shallow water limit as per:

$$T_p \approx 9.78\left(\frac{d}{g}\right)^{\frac{1}{2}} \qquad \text{Equation 2.4.8-2}$$

   Where, T_p is the wave period, d is the average depth of the ESWEMS Retention Pond, and g is the gravitational constant (9.81 m/s)

   a. If the predicted wave is greater than the limiting value, reduce the predicted wave period to the limiting value. The wave height may be found by noting the dimensionless fetch associated with the limiting wave period and substituting this fetch for the actual fetch in the wave growth calculation.
   b. If the predicted wave period is less than the limiting value, retain the deepwater values from (2).
4. If the wave height exceeds 0.6 times the depth, the wave height should be limited to 0.6 times the depth.

Wave runup was then calculated using equations and suggested coefficients from EM 1110-2-1100 (USACE, 2006). Table 2.4-32 shows the resulting wind setup, wave runup and freeboard requirement values.

The freeboard requirement is defined as the height above the still water surface that the wind setup combined with the wave runup will impact. Note that $R_{u2\%}$ is the wave runup that 2 percent of the waves will exceed, which is the most conservative value that can be calculated using EM 1110-2-1100 (USACE, 2006).

Based on the results shown in Table 2.4-32, the overflow protection is adequate during the PMP and wave action does not adversely affect the ESWEMS Retention Pond embankments.

2.4.8.2.3 Probable Maximum Wind Design Considerations

2.4.8.2.3.1 Probable Maximum Winds

Using the method of Thom (Thom, 1968), the annual extreme fast mile wind speed at the BBNPP site at different recurrence intervals is indicated in Table 2.4-33. The annual extreme fast mile wind speeds are computed at 30 ft (9 m) above ground level. The Thom method assumes that:

a. Surface friction is uniform for a fetch of 25 mi (40 km);

b. Extreme winds result only from extratropical cyclones or thunderstorms; and

c. Extreme winds from tornados are not included in this analysis.

Maximum winds in the site area are associated mainly with thunderstorms and squall lines rather than hurricanes or other cyclonic storms. Although these winds are usually considered local in nature, they can cause wind setup and generate large waves in water bodies.

The probable maximum wind was determined based on the method of Thom (Thom, 1968). Thom used meteorological data collected over a 21-year period from 150 monitoring stations to provide isotachs of the 0.50, 0.10, 0.04, 0.02, and 0.01 quantiles for the annual extreme fastest wind speed for the United States. Thom then provides an empirical method to use these data to determine the fastest wind speed for other quantiles at any U.S. location. This method was used to determine the fastest wind speed likely to occur at the 0.001 quantile, or the 1,000-year mean recurrence interval. Table 2.4-33 shows the extreme fastest mile wind speed at different recurrence intervals obtained from Thom (Thom, 1968).

A wind speed with a return period of 1,000 years constitutes a conservative design basis for safety related elements. Based on Thom's model, this design wind speed applicable to the site was computed to be 118 mph (190 km/hr) with duration of 1-minute.

Thom's isotach's and statistics are based on a specific 21-year database, more recent data can not be taken into account, except as a comparison of actual extreme wind speeds with those predicted by Thom (Thom, 1968).

The fastest annual wind of 57 mph (92 km/hr) was recorded in 2006, at Susquehanna Steam Electric Station (SSES) Units 1 & 2 meteorological tower, based on available data from 2001 to 2007.

As an example, this 57 mph (92 km/hr) compares with Table 2.4-33 values determined from Thom's method of 60 mph (97 km/hr) (10-year recurrence interval) and 70 mph (113 km/hr) (25-yr recurrence interval).

2.4.8.2.3.2 Wave Action

To ensure that the ESWEMS Retention Pond does not overtop, several recurrence intervals were considered coincident with the maximum probable water level of elevation 672.13 ft (204.87 m) msl. Results of these scenarios are presented in Table 2.4-32.

In the analysis of wave action, an extreme wind speed with a 1,000-year recurrence interval occurring coincidentally with the maximum probable water level corresponding to an elevation of 672.13 ft (204.87 m) msl is considered to be a conservatively postulated combination of hydrometeorological events. The nominal surface level of water in the pond is elevation 669 ft (204 m) msl. This design wind for a 1,000 year return interval, as discussed in Section 2.4.8.2.2.1, has the extreme fastest mile wind speed of 118 mph (190 km/hr).

Wave runup results using the methods described in Section 2.4.8.2.2.1 are shown in Table 2.4-32. At the 1,000 year wind event and for a rip-rapped slope of 3 horizontal to 1 vertical designed to resist this wave action, the maximum wave runup ($R_{u2\%}$) is calculated to be 1.17 ft (0.36 m). Including the wind setup value (S) of 0.13 ft (0.04 m), the total runup ($S+R_{u2\%}$) would be 1.30 ft (0.40 m) and would reach elevation 673.43 ft (205.26 m) msl. The rip-rap design is also based on the wave runup analysis.

2.4.8.2.3.3 Design Basis for ESWEMS Retention Pond

Based on the regional climatology and the 1,000 yr recurrence maximum wave runup result of 1.3 ft (0.4 m), wind generated waves at the normal water level will not exceed 4 ft (1 m); therefore, the rip-rap has been sized for a 4 ft (1 m) wave.

The rip-rap and bedding design configuration for the pond slope is shown in Figure 3E.4-6. The rip-rap stone layer thickness is 18 in (46 cm). The double bedding thickness is 12 in (30 cm) consisting of 6 in (15 cm) of fine bedding and 6 in (15 cm) of coarse bedding. The protection extends from the top of the slope to elevation 662 ft (202 m) msl. The side slopes are 3 horizontal to 1 vertical.

The rip-rap consists of dumped stone - hard, durable, and angular in shape. The specification for the stone requires a percentage loss of not more than 40 after 500 revolutions as tested by ASTM C 535, Resistance to Abrasion of Large Size Coarse Aggregate by Use of the Los Angeles Machine (ASTM, 2003a). The stone sizes vary from a maximum of approximately 18 in (46 cm) to a minimum of 1 in (3 cm) (to fill voids), and have a 50-percent size of 12 in (30 cm). The maximum stone weight is 500 lbs (227 kg), and the specific gravity is greater than 2.60.

The fine bedding layer is placed on the prepared embankment slope in a single lift. The fine bedding gradation discussed in Section 2.4.5 or 2.4.4 satisfies the requirements of ASTM C 33, Concrete Aggregates (ASTM, 2007).

The coarse bedding layer is placed in a single lift on top of the finished fine bedding layer, which has a surface free from mounds or windrows. The coarse bedding gradation shown on Section 9.2.5 satisfies the requirements of ASTM D 448, Standard Sizes of Coarse Aggregate for Highway Construction, Size No. 467 (ASTM, 2003b).

Stone for rip-rap is placed on the surface of the finished coarse aggregate bedding layer in a manner which produces a reasonably well-graded mass of stone with the minimum practicable percentage of voids. Rip-rap is placed to its full course thickness in one operation to avoid displacing the underlying material. All material comprising the rip-rap is placed and distributed such that there are no large accumulations of either the larger or smaller sizes of stone.

The BBNPP ESWEMS Retention Pond is the source of water for the ESWS. The plant water requirements discussed in Section 2.4.11 are supplied from the Susquehanna River. The low flow conditions discussed in Section 2.4.11 do not influence the dependability of the ESWEMS Retention Pond. Following the first 72 hours of an accident and assuming minimum required initial level the ESWEMS Retention Pond is designed to provide 27 days water supply with a greater than 10 percent margin without makeup during the worst 30 days of evaporation.

2.4.8.2.3.4 Resonance

At the evaluated level of elevation 669 ft (204 m) msl, the ESWEMS Retention Pond has an approximate length of 700 ft (213 m) and an average depth of 22.5 ft (6.9 m). The ESWEMS Retention Pond side slopes are covered with rip-rap which acts as a wave energy absorber. For these reasons, resonance of the pond is not anticipated.}

2.4.8.3 References

{**ASTM, 2003a.** Standard Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine, American Society of Testing and Materials International, West Conshohocken, PA, 2003.

ASTM, 2003b. Standard Classification for Sizes of Aggregate for Road and Bridge Construction, American Society of Testing and Materials International, West Conshohocken, PA, 2003.

ASTM, 2007. Standard Specification for Concrete Aggregates, American Society of Testing and Materials International, West Conshohocken, PA, 2007.

Brater, 1976. Handbook of Hydraulics, E.F. Brater and H.W. King, McGraw-Hill, New York 5th Edition.

NOAA, 1978. Probable Maximum Precipitation Estimates, United States East of the 105th Meridian, Hydrometeorological Report No. 51 (HMR-51), U.S. Department of Commerce, National Oceanic and Atmospheric Administration, June 1978.

NOAA, 1984. Probable Maximum Storm (Eastern U.S.), Hydrometeorological Report No. 52 (HMR-52), U.S. Department of Commerce, National Oceanic and Atmospheric Administration, March 1984.

Thom, 1968. New Distribution of Extreme Winds in the United States, ASCE Journal of Structural Division, H.C.S Thom, Volume 94, Number ST7, pp 1787-1801, July 1968.

USACE, 1997. EM 1110-2-1420, U.S. Army Corps of Engineers, Engineering and Design - Hydrologic Engineering Requirements for Reservoirs, 1997.

USACE, 2006. EM 1110-2-1100, U.S. Army Corps of Engineers, Coastal and Hydraulics Laboratory - Engineer Research and Development Center, Waterways Experiment Station - Vicksburg, Mississippi (2006).}

2.4.9 CHANNEL DIVERSIONS

The U.S. EPR FSAR includes the following COL Item for Section 2.4.9:

> A COL applicant that references the U.S. EPR design certification will provide site-specific information and demonstrate that in the event of upstream diversion or rerouting of the source of cooling water, alternate water supplies will be available to safety-related equipment.

This COL item is addressed as follows:

{References to elevation values in this section are based on the National Geodetic Vertical Datum of 1929 (NGVD 29), unless stated otherwise.

BBNPP is located adjacent to the NBSR. The geology of the Susquehanna River Basin, from its headwaters in Cooperstown, New York to its mouth in the Chesapeake Bay, changes as you proceed south. The river is approximately 444 mi (715 km) long, making it the longest river on the East Coast of the United States, and flows through New York, Pennsylvania and Maryland. From the headwaters to southern New York, the geology of the land surrounding the river is mostly glacial till underlain by sandstones and shales. Glacial till is a mixture of all sizes of sediments from boulders (glacial erratic) to silt and clay (very fine) sized sediments. In Pennsylvania, the glacial debris ends and sedimentary rocks are the predominant bedrock. The sedimentary rocks include sandstones and shales and also include carbonates such as limestones. Farther south from the BBNPP site, towards the Chesapeake Bay, sedimentary rocks are dominant, however, metasedimentary rocks, such as schists and slates, are also present. The BBNPP site and surrounding areas are shown in Figure 2.4-2. Section 2.4.9.1 through Section 2.4.9.8 are added as a supplement to the U.S. EPR FSAR.

2.4.9.1 Historical Channel Diversions

Section 2.5.1 provides further description and discussion of geological processes that lead to the formation of the Susquehanna River. This section briefly describes the formation of the Susquehanna River.

The Susquehanna River will be used to supply makeup water to the safety-related ESWEMS and non-safety-related Circulating Water System (CWS) as described in Section 2.4.1.1. Municipal water provided by the PA American Water Company (PAW) will be used to satisfy the demands of potable, sanitary and miscellaneous plant systems. The Susquehanna River is described as "an extremely ancient river, the existence of which can be traced back (at least) to the opening of the Atlantic following the Late Triassic/Jurassic rifting of eastern North America from NW Africa. During its long history, the Susquehanna has incised many hundreds of meters into the folded structure of the Appalachians, creating spectacular examples of superimposed drainage. Early studies of this landscape also revealed a number of 'peneplains', some of which are now known to be capped by fluvial deposits of the Susquehanna that pre-date this river's relatively recent entrenchment into its present narrow gorge" (Westaway, 2007). The Susquehanna River has also been subjected to multiple periods of glaciation. Four main periods of continental glaciation occurred in Pennsylvania with three glacial periods directly impacting the BBNPP site region. These glacial events occurred in the following order from oldest to youngest; Early Pleistocene, Early Middle Pleistocene, Middle Pleistocene, and Late Pleistocene. The oldest glaciation extended the farthest south, with each subsequent glacial event never advancing past the previous one, as shown on Figure 2.4-40. These older glacial advances are more difficult to identify due to the eroding attributes of more recent glaciers. The area south of the Late Pleistocene glacial limit is characterized by extensive colluvial deposits and other features of periglacial origin (Braun, 2004) including frost riving and congelifluction (Sevon, 1999). The limit of the Late Pleistocene glacial event, also known as the Late Wisconsinan (17,000-22,000 years), is marked by heads-of-outwash in the valleys with an 'indistinct' moraine on adjacent hillsides (Braun, 2004) and is labeled as Olean Till on Figure 2.4-40. The overall trend of the late Wisconsinan margin across northeastern Pennsylvania is N60°W. Hilltop striae on the Appalachian and Pocono Plateaus, within 30 miles (48 km) of the margin, indicate a regional ice flow direction of North-South to S20 °W (Braun, 1988). The Late Illinoian (132,000-198,000 years) glacial event advanced only a few miles from the more recent Late Wisconsinan event, as shown in Figure 2.4-40, and is identified by heads-of-outwash in the valleys and discontinuous patches of till or colluvium derived from till (Braun, 1988). Pre-Illinoian glaciations advanced approximatley 20-40 mi (32-64 km) beyond the Late Illinoian limit, as shown on Figure 2.4-40. Glacial lake sediments and two belts of "markedly thicker glacial deposits" suggest that Pre-Illinoian era northeastern Pennsylvania was subjected to two glacial events (Braun, 2004). (Westaway, 2007) reports that during periods of Pleistocene Glaciation, the Susquehanna River flowed an additional approximate 248 mi (399 km), 186 mi (299 km) of which is now submerged beneath the Chesapeake Bay and another 62 miles (100 km) flowed over the continental shelf. During glacial retreats, large volumes of glacial melt-waters formed broad, high energy streams including the Susquehanna River, and other neighboring rivers such as the Delaware and Potomac Rivers that incised deep canyons into the continental shelf.

Approximately 7.5 mi (12 km) northeast of the BBNPP site, is the location of one of the largest landslides in Pennsylvania. Approximately 4 Ka ago, a rock block landslide on the south side of Schickshinny Mountain in which 20,260,000-27,450,000 yd^3 (15,490,000-21,000,000 m^3) moved 1,250 ft (381 m) onto the Susquehanna River floodplain and extended in, and partially diverted, the Susquehanna River (Inners, 1988). A rock block slide is "a translational slide in which the moving mass consists of a single unit that is not greatly deformed" (Varnes, 1978). Another, much smaller, landslide was witnessed in 1947 in which rainfall, that deposited 6 inches (15 cm) of rain within 2 hours, likely caused approximately 122,000 yd^3 (93,300 m^3) to move downslope within a minute or two (Inners, 1988). Including the aforementioned landslides, thirteen rock block slides have been mapped between Nanticoke, Pennsylvania and Shickshinny, Pennsylvania (a distance of approximately 9 mi (14.5 km)) along the south side of Schickshinny Mountain, with a total volume of about 56,000,000 yd^3 (42,800,000 m^3) (Inners, 1988). All of these landslides, with the exception of the 1947 landslide, are prehistoric, having a maximum age of approximately 11 Ka, and were the likely results of a combination of the dipslope of Shickshinny Mountain being ultimately underlain by a weak mudstone, a relatively low dipping angle of the rock beds on the slope (approximately 20°), and the undercutting of the sandstone-mudstone bedding planes by the Susquehanna River. Even though porewater pressure, as a result of high moisture conditions in the area, was the most likely cause of many of these historic rock block slides, the larger landslides probably required a longer 'wet' season and/or multiple year high-moisture conditions. (Inners, 1988)

The highest land feature within a 5 mi (8 km) radius of the site is Nescopeck Mountain, to the southeast of the site, which reaches an elevation of about 2,368 ft (722 m) msl. The Susquehanna River elbows around the BBNPP site area to the east and south and is approximately 7,000 ft (2,134 m) from the site (at the closest point). Its floodplain, on average, is about 0.75 mi (1.2 km) wide, with an average surface elevation of about 513 ft (156.4 m) msl. The BBNPP onsite emergency supply will sit at elevation 674 ft (205.4 m) msl.

Given the seismic, topographical, and geologic evidence in the region (Section 2.5.1 and Section 2.5.2), and despite the historic landslides of the region mentioned above, the limited potential for upstream diversion or rerouting of the Susquehanna River (due to channel migration, river cutoffs, or subsidence) could not adversely impact safety-related facilities at the BBNPP site.}

2.4.9.2 Regional Topographic Evidence

{The BBNPP does not rely on the Susquehanna River for safe shutdown since the ESWEMS contains sufficient storage volume under emergency condition. The non-safety-related CWS water intake for BBNPP will be located on the Susquehanna River, about 300 ft (100 m) south of the existing SSES Units 1 and 2 intake structure. The Susquehanna River is channeled by two ridges, Lee Mountain and Shickshinny Mountain, northeast of the site while Nescopeck Mountain borders the south side of the Susquehanna River south and southeast of the BBNPP site. Within the 5 mi (8 km) radius of the site, the Susquehanna River flows over very competent bedrock, thus limiting erosion of the riverbed. Erosional deposits of stratified drift on the river banks, typically sand and gravel (as shown in Figure 2.4-40), were primarily deposited during deglaciation of the site area, but continues today at a significantly decreased rate.

The BBNPP site lies within the Middle Susquehanna Subbasin portion of the Susquehanna River Basin, which drains an area of approximately 3,755 mi^2 (9,725 km^2) (SRBC, 2008c). Water usage, throughout the entire Susquehanna River Basin, is closely governed and regulated by the SRBC in connection with varying other government agencies, as stated above. This includes the monitoring and maintenance of the fourteen major dams along the Susquehanna River and its adjoining tributaries. More information on the dams and reservoirs of the Susquehanna River Basin is provided in Section 2.4.4. Because the Susquehanna River is regulated, the possibility of river diversions is very unlikely.}

2.4.9.3 Diversions Caused By Ice

{A review of the Pleistocene history of the Susquehanna River shows the river underwent significant changes. During the Pleistocene pre-historic period, the Susquehanna River flowed several hundreds of miles longer, through the current day Chesapeake Bay and down the continental slope (Westaway, 2007). During the pre-historic Pre-Illinoian cold stage, part of the Susquehanna River, mainly the West Branch, was dammed near Montoursville, Pennsylvania by ice and resulted in the flooding and overflowing of the West Branch of the Susquehanna River into a nearby tributary, the Juniata River (Westaway, 2007). The approximate location of this ice dam is over 40 mi (64.4 km) west from the BBNPP site. Due to the distance from the site and intense cold conditions during this occurrence that are no longer experienced within the state (Sevon, 1999), a similar ice damming is highly unlikely to adversely affect the safety related structures at the site.

Even though the Susquehanna River is subject to varying amounts of floating ice during the winter months, the CWS Makeup Water Intake Structure, a non-safety related structure, is not impacted. The CWS Makeup Water pumps are located approximately 3 ft (0.9 m) below the design high water level of 525 ft (160 m) msl established for final design of the intake structure. This design would not be subject to ice blockage or ice formed in the Susquehanna River.

Furthermore, the Susquehanna River freezing is not anticipated to cause ice flooding, because the probable 200-year high water elevation of 525 ft (160 m) msl was considered in the final design of the intake system. Ice, or ice flooding, will not cause a problem at the plant discharge, as the warm discharge water will keep the outfall open. A further discussion on the formation of surface ice and the potential for an ice jam is provided in Section 2.4.7.

Flooding due to ice jams as a result of ice break-up can be a problem during the winter months. For instance, jamming may occur at locations where floating ice is retained at bridges. There are

13 recorded instances of ice jams near Wilkes-Barre in the Susquehanna River based on a search of the "Ice Jam Database" maintained by the U.S. Army Corps of Engineers Cold Regions Research and Engineering Laboratory (CRREL). Figure 2.4.7-1 illustrates ice jams within a 50-mile (80 km) radius. The most recent ice movement and ice jamming occurred on March 3, 2004 in the vicinity of Wilkes-Barre. Approximately 4.0 ft (1.2 m) of backwater was observed at the Wilkes-Barre USGS gauging station (USACE, 2008).}

2.4.9.4 Site Flooding Due to Channel Diversion

Site flooding as a result of channel diversion does not affect the BBNPP site. However, the design basis flood elevation for the BBNPP site is determined by considering a number of different flooding possibilities. The possibilities applicable and investigated for the site include the probable maximum flood (PMF) on streams and rivers, potential dam failures, probable maximum surge and seiche flooding, probable maximum tsunami, and ice effect flooding. Each of these flooding scenarios was investigated in conjunction with other flooding and meteorological events, such as wind generated waves, as required in accordance with guidelines presented in Regulatory Guide 1.59 (NRC, 1977). Detailed discussions on each of these flooding events and how they were estimated are found in Section 2.4.2 through Section 2.4.7. Adequate drainage capacity will be provided to prevent flooding of safety-related facilities and to convey flood waters on the roofs and the buildings away from the plant site area.

All safety-related facilities for BBNPP are located at elevation 674 ft (205 m) msl. The highest flood on record of the Susquehanna River was the 1972 flood that occurred throughout the Mideast as a result of Hurricane Agnes. This 1972 flood recorded a peak stream flow of about 345,000 cfs (9,769 m^3/s) at Wilkes-Barre and 363,000 cfs (10,279 m^3/s) at Danville. Based on statistical analysis, a flood of this discharge is estimated to reach elevation 538 ft (164 m) msl near the plant site at the Susquehanna River under present channel conditions (USGS, 2008a) and (USGS, 2008b).

Because BBNPP is located at elevation 674 ft (205 m) msl, it is anticipated that the Susquehanna River flooding does not affect the plant. The plant site is dry with respect to major flooding on the Susquehanna River, and only a localized probable maximum precipitation (PMP) storm was considered for flood design protection of safety-related facilities.

The results of the analysis indicate that near the BBNPP site the maximum PMF water surface elevation of 670.66 ft (204.42 m) msl will occur at Walker Run. As a result, the plant site is 3 ft (1 m) above the Walker Run PMF.

The maximum water level due to local intense precipitation or the local PMP is estimated and discussed in Section 2.4.3.2. The maximum water level in the BBNPP power block area, due to a local PMP, is elevation 670.66 ft (204.52 m) msl. This water level becomes the design basis flood elevation for all safety-related facilities in the power block area. All safety-related building entrances in the power block are located above this elevation. Potential local flooding, even from extremely heavy rainfall, will be controlled by the plant site drainage system, as discussed in Section 2.4.3.2.

As discussed in Section 2.4.2, the maximum PMP water level in the ESWEMS Retention Pond is elevation 672.13 ft (204.87 m) msl, which is 1.87 ft (0.57 m) below the top of the dike at elevation 674 (205 m) msl. Flood protection measures are not required for the BBNPP ESWEMS. The grade level at the ESWEMS retention pond location is at elevation 674 (205 m) msl and elevation

674.5 (205.6 m) msl for the ESWEMS Pumphouse. The ESWEMS Pumphouse is 2.37 ft (0.72 m) above the peak estimated PMP water level. Therefore, flood protection measures are not required for these structures.

Section 2.4.2 anaysis shows that all safety-related facility entrances are located above peak PMP water levels and collection ditches prevent PMP sheet flows from reaching safety-related entrances. Futhermore. No dams or obstructions on the Susquehanna River or Walker Run would be permitted to be constructed by the PADEP and USACE that would create a flooding or problems for BBNPP without adequate redress.

2.4.9.5 Human-Induced Channel Flooding

Human-induced channel flooding of the Susquehanna River is not anticipated because the Susquehanna River flooding is monitored and controlled by the SRBC and the U.S. Army Corps of Engineers. There are no reported federal projects to channel or dam any portion of the Susquehanna River. FSAR Section 2.4.3 discusses the PMF on streams and rivers as a result of the PMP over the watershed. On Walker Run, no dams or obstructions would be permitted to be constructed that would cause flooding at the BBNPP site.

There are no dams within the Walker Run watershed. Although several water control structures are located within the Susquehanna River Basin upstream from the site, only eleven (11) dams are positioned on significant tributaries that drain into the Susquehanna River (Figure 2.4-15). During an upstream (from the proposed BBNPP intake structure) dam failure event, flooding resulting from the failure of these storage structures will not impact the safety-related structures. Section 2.4.4 discusses in depth the dam failure analysis.

Human induced, temporary flow cut off can occur on the Susquehanna River due to coffer damming for construction of a new bridge for example. Under these circumstances, the BBNPP emergency water supply would continue to be effective until river flow could be restored.

2.4.9.6 Alternate Water Sources

An alternate water source is not required for the BBNPP design. Following a postulated accident, the emergency safety-related water supply to the ESW System is initially supplied from basins that are located beneath each of the four ESWS cooling towers. Each of the four cooling tower basins holds sufficient volume of water to supply the ESW System for 72 hours. After the initial 72 hours, the ESWEMS Retention Pond supplies makeup water to the ESWS cooling tower basins for use by the ESWS during the following 27 days of the postulated accident duration. There is no potential of blockage of the safety-related ESWEMS Pumphouse due to channel diversions. Non-safety related water sources, such as water from the non-safety related CWS Makeup Water System, Raw Water Supply System, and municipal water system are also available, if needed.

2.4.9.7 Other Site-Related Evaluation Criteria

The potential for channel diversion from seismic or severe weather events is not considered to result in a loss of cooling water supply. Seismic Category I structures are designed for a seismic event and will be situated approximately 109 ft (33.22 m) above the highest flood on record for the Susquehanna River. Due to the limited likelihood of a seismic event at or within the site area and because the sides of the new forebay will be protected by vertical sheet pile walls, no additional measures are necessary to protect against a potential channel diversion due to seismic events. A collapse of the shoreline to the northeast and east of the BBNPP site during a seismic or severe weather event is assumed to not result in silt depositing in the forebay to such an extent that it would cause a loss of cooling water supply. A seismic event would result in the bulk of the collapsed material being deposited at the shoreline location of the failure. Normal waves and flow of the river would disperse this material slowly over a wide area. A severe storm could relocate shoreline sands and soils but is, again, dispersed over a wide area. A severe storm or collapse of nearby shoreline may result in the need for maintenance dredging of the Susquehanna River.}

2.4.9.8 References

{Braun, 1988. Glacial Geology of the Anthracite and North Branch Susquehanna Lowland Regiosn, p 1-25, D.Braun, 1988.

Braun, 2004. Late Wisconsin Deglaciation of the Great Bend-Tunkhannock Region of Northeastern Pennsylvania, Guidebook for the 67th Annual Reunion of the Friends of the Pleistocene, p 1-26, D. Braun, 2004.

Inners, 1988. Bedrock and Glacial Geology of the North Branch Susquehanna Lowland and the Eastern Middle Anthracite Field, 53rd Annual Field Conference of Pennsylvania Geologists, J.D. Inners Ed., p 120-123, J.D. Inners, October 1988.

NRC, 1977. Nuclear Regulatory Guide 1.59, Design Basis Floods for Nuclear Power Plants, Revision 2, U.S. Nuclear Regulatory Commission, August 1977.

Sevon, 1999. Pennsylvania and the Ice Age, Pennsylvania Geological Survey, 4th Series, Educational Series 6, W.D. Sevon and G.M. Fleeger, 1999.

SRBC, 2008c. Subbasin Information: Susquehanna River Basin Commission, Website: http://www.srbc.net/subbasin/middlsus.htm, Date accessed: May 22, 2008.

USACE, 2008. Ice Jam Database, Cold Regions Research and Engineering Laboratory (CRREL). Website: https://rsgis.crrel/usace.army.mil/icejam/ Date accessed: December 26, 2007.

Varnes, 1978. Slope Movement Types and Processes, in Schuster, R.L., and Krizek, R.J., eds., Landslides-Analysis and control: National Research Council, Washington, D.C., Transportation Research Board, Special Report 176, p 11-33, R.L. Schuster and R.J. Krizek, 1978.

Westaway, 2007. Late Cenozoic Uplift of the Eastern United States Revealed By Fluvial Sequences of the Susquehanna and Ohio Systems: Coupling Between Surface Process and Lower-Crustal Flow, Quaternary Science Reviews, Number 26, p 2823-2843, R. Westaway, 2007.}

2.4.10 FLOODING PROTECTION REQUIREMENTS

The U.S. EPR FSAR includes the following COL Item in Section 2.4.10:

> A COL applicant that references the U.S. EPR design certification will use site-specific information to compare the location and elevations of safety-related facilities, and of

structures and components required for protection of safety-related facilities, with the estimated static and dynamic effects of the design basis flood conditions.

This COL item is addressed in the following section:

{References to elevation values in this section are based on the National Geodetic Vertical Datum of 1929 (NGVD 29), unless stated otherwise.}

This section discusses the locations and elevations of safety-related facilities to identify the structures and components exposed to flooding. The safety-related facilities are compared to design basis flood conditions to determine if flood effects need to be considered in plant design or in emergency procedures.

{The safety-related facilities for BBNPP are located at a minimum elevation 674 ft (205.4 m) msl. The highest flood of record on the Susquehanna River took place in 1972 during Hurricane Agnes. This 1972 flood recorded a peak stream flow of about 345,000 cfs (9,769 m^3/s) at Wilkes-Barre, PA on June 24th, 1972 and 363,000 cfs (10,279 m^3/s) at Danville on June 25th, 1972 (USGS, 2008a) (USGS, 2008b). On June 25, 1972 a river crest of 517.36 ft (157.7 m) msl and mean daily flow of 329,837 cfs (9,340 m^3/s) was recorded near the SSES intake structure (Ecology III, 1986).

The BBNPP site is approximately 157 ft (48 m) higher than the June 25, 1972 river crest at the SSES Intake Structure, therefore it is anticipated that the Susquehanna River flooding will not affect the plant. The BBNPP site is dry with respect to major flooding on the Susquehanna River, and only a localized Probable Maximum Precipitation (PMP) storm was considered for flood design protection of safety-related facilities.

The results of the analysis in Section 2.4.3 indicate that near BBNPP the maximum Probable Maximum Flood (PMF) water surface elevation is 670.96 ft (204.51 m) msl for the Walker Run. Thus, the BBNPP site safety-related structures are approximately 3 ft (1 m) above Walker Run PMF. As a result, the plant site is not impacted due to major flooding on the Walker Run.

The PMF evaluation for SSES Units 1 and 2 shows that the PMF elevation on the Susquehanna River would reach an elevation of 548 ft (167 m) msl. The site elevation for SSES Units 1 and 2 is 670 ft (204 m) msl; with a 122 ft (37 m) difference in elevation for the existing PMF evaluation and the site grade. BBNPP site elevation is 674 ft (205 m) msl. This is 126 ft (38 m) higher than the PMF for SSES Units 1 and 2.

Grading in the power block area around the safety-related facilities is such that all grades slope away from the structures at a minimum of 1% towards collection ditches.

The safety-related ESWEMS Retention Pond is located on the east of the power block area, as shown on Figure 2.4-39, and is described in Section 2.4.8. Grading around the ESWEMS Retention Pond is sloped to keep surface stormwater from entering the pond. To prevent an overflow caused by malfunction of the makeup system or by rainfall accumulation in the ESWEMS Retention Pond, an outlet structure and spillway are provided to drain excess storage when the water surface in the pond exceeds the outlet crest elevation of 672 ft (205 m). Additional information related to potential flooding from the ESWEMS Retention Pond is provided in Section 2.4.8.

Additionally, the maximum estimated water surface elevations resulting from all design basis flood considerations, as discussed in Section 2.4.2 through Section 2.4.7, are well below the entrance and grade slab elevations for the power block safety-related facilities. Therefore, flood protection measures are not required in the BBNPP power block area.

A general arrangement figure of the ESWEMS area, a plan view figure of the intake, and a section view figure of the ESWEMS are provided in Figure 2.4-39. Flood protection measures are not required for BBNPP ESWEMS. The grade level at ESWEMS Retention Pond is elevation 674 ft (205.4 m) msl and 674 m (205.4 m) msl for the ESWEMS pumphouse. The pumphouse is 2.37 ft (0.7 m) above the estimated PMP.

In addition to structural protection against static, dynamic, and erosive forces, the ESWEMS will be designed to remain free from flooding and from the intrusion of water.

The CWS Makeup Water Intake Structure at the Susquehanna River is not a safety-related facility. However, the CWS Makeup Water Intake Structure will be designed to take into account the flood elevation of 525 ft (160 m) msl.

In summary, the safety-related facilities are designed to withstand the combination of flooding conditions and wave-run up, including both static and dynamic flooding forces, associated with the flooding events discussed in Section 2.4.2 through Section 2.4.8.}

2.4.10.1 References

{Ecology III, 1986. Pre-Operational Studies of the Susquehanna River in the Vicinity of the Susquehanna Steam Electric Station, 1971-1982. December 1986.

USGS, 2008a. Peak Streamflow for Pennsylvania USGS 01540500 Susquehanna River at Danville, PA. Website: http://nwis.waterdata.usgs.gov/pa/nwis/peak?site_no=01540500&agency_cd=USGS&format=html, Date accessed: February, 2008.

USGS, 2008b. Peak Streamflow for Pennsylvania USGS 01536500 Susquehanna River at Wilkes-Barre, PA. Website: http://nwis.waterdata.usgs.gov/pa/nwis/peak?site_no=01536500&agency_cd=USGS&format=html, Date accessed: February, 2008.}

2.4.11 LOW WATER CONSIDERATIONS

The U.S EPR FSAR includes the following COL Item in Section 2.4.11:

> A COL Applicant that references the U.S. EPR design certification will identify natural events that may reduce or limit the available cooling water supply, and will verify that an adequate water supply exists for operation or shutdown of the plant in normal operation, anticipated operational occurrences, and in low water conditions.

The COL Item is addressed as follows:

This section investigates natural events that may reduce or limit the available cooling water supply to ensure that an adequate water supply exists to shut down the plant under conditions requiring safety-related cooling. Specifically, any issues due to a low water level in the {Susquehanna River are investigated in this section.

References to elevation values in this section are based on the National Geodetic Vertical Datum of 1929 (NGVD 29), unless stated otherwise.

Section 2.4.11.1 through Section 2.4.11.7 are added as a supplement to the U.S. EPR FSAR.

2.4.11.1 Low Flow in Rivers and Streams

The BBNPP site sits on a relatively flat upland area, with the plant grade above the nominal Susquehanna River level. Figure 2.4-2 shows the location of the BBNPP site in relation to the existing SSES Units 1 and 2, the Susquehanna River, and Walker Run. The BBNPP site and is approximately 214 mi (38.6 km) downstream of the U.S. Geological Service (USGS) gauge located at Wilkes-Barre, and approximately 5 mi (8 km) upstream of Berwick.

BBNPP relies on the Susquehanna River to supply water for safety-related and non-safety-related purposes. BBNPP does not draw water from any streams or creeks located in the vicinity of the site; thus, low water conditions resulting from the low flow in these water bodies have no adverse impact on BBNPP.

The BBNPP discharge pipe extends approximately 200 ft (61 m) into the Susquehanna River (Figure 2.4-10). As a conservative approach, the probable minimum flow of 532 cfs (15 m^3/s) recorded at Wilkes-Barre was used as the design basis. The flow of 532 cfs (15 m^3/s) will bring the water level near the discharge line to approximately elevation 485.3 ft (147.9 m) msl (Soya, 1991). The CWS Makeup Water Intake Structure Design will accommodate river levels as low as 484 ft (148 m) msl. The centerline of the discharge line is at elevation of 476 ft (145 m) msl, approximately 9 ft (3 m) below the estimated water level near the discharge line and 8 ft (2 m) below the established design low water level for the CWS intake; thus low water levels will not uncover the discharge pipe or affect the non-safety-related makeup water supplies.

2.4.11.2 Low Water Resulting from Surges, Seiches, Tsunamis, or Ice Effects

Since the effect from seiches and tsunamis on the site are negligible, as described in Section 2.4.5 and Section 2.4.6 respectively, these effects are not taken into account for the low water consideration. Section 2.4.7 includes a description of cases of ice formation or ice-jams that may result in low water level. However, as concluded in Section 2.4.7, the possibility of ice jam formation on the Susquehanna River will not adversely affect the ability of the safety related Essential Service Water Emergency Makeup System (ESWEMS) to function properly.

2.4.11.2.1 Storm Surge Effect

Since the plant grade elevation of BBNPP is approximately 161 ft (49 m) above the 100-yr floodplain of the Susquehanna River, there are no effects due to storm surges or seiche flooding that would impact the site's safety-related facilities. Details of the storm surge effects are given in Section 2.4.5.

2.4.11.2.2 Tsunami Effect

Any effect from a tsunami-like wave is not credible. Details of the tsunami effects are given in Section 2.4.6.

2.4.11.3 Historical Low Water

Table 2.4-34 lists the location and period of record for USGS gauging stations at Wilkes-Barre and Danville located upstream and downstream of BBNPP site in the Susquehanna River (USGS, 2008a) (USGS, 2008b). The minimum annual water levels in the Susquehanna River and their corresponding stages on the Susquehanna River at Wilkes-Barre and Danville are listed in Table 2.4-35 and Table 2.4-36. These tables show the low flow statistics for Wilkes-Barre and Danville USGS gauging stations for almost 106 years of observed flow data.

Figure 2.4-42 shows the monthly minimum flow variations for Wilkes-Barre and Danville gauging stations. The minimum water level in the Susquehanna River at Wilkes-Barre was 509.13 ft (155.18 m) msl in 1964 (USGS, 2008f). The lowest river stage observed at Danville was 432.89 ft (132 m) msl in 1900 (USGS, 2008e). The minimum daily discharge in the Susquehanna River was 532 cfs (15 m^3/s) at Wilkes-Barre and 558 cfs (16 m^3/s) at Danville, both in September 1964. These flows may be considered as the probable minimum flows in the Susquehanna River at these respective stations.

Regulatory Guide 1.206 (U.S.NRC, 2007) does not mention the specific return period for the extreme low water level, but mentions the use of the 100-year drought as a design basis for non-safety related facilities. The 100-year low water level is the appropriate design level for the non-safety-related makeup water intake for the Circulating Water System (CWS). As a conservative approach, the probable minimum flow at the BBNPP site is selected as the design basis. The probable minimum flow is based on the Wilkes-Barre station, located upstream from the BBNPP site. The probable minimum flow of 532 cfs (15 m^3/s) recorded at Wilkes-Barre will bring the water level near the intake structure to approximately elevation 485.3 ft (147.9 m) msl (Soya, 1991). Soya (Soya, 1991) also reports that flows ranging from 380 to 600 cfs (11 to 17 m^3/s) brings the water level near the SSES Ecology III lab, which is located approximately 1,620 ft (402 m) up river from the existing SSES river intake, to about elevation 485.1 to 485.5 ft (147.9 to 148.0 m) msl (Soya, 1991). These water levels are higher than the design CWS Makeup Water Intake low water level of 484 ft (148 m) msl and thus will not impact withdrawal of water from the Susquehanna River.

The low water levels recorded along the Susquehanna River near the BBNPP site were evaluated further using statistical methods to determine the recurrence interval associated with such low flow events (Linsley, 1992). Frequency analysis methods such as Weilbull, Gumbel and Log Pearson Type III distributions are common techniques used to estimate flood frequency events. However, by adjusting the procedure slightly to accommodate low flow events when calculating the Weilbull recurrence intervals to establish an estimated frequency distribution, and by calculating the probability that the flow is less than (as opposed to greater than or equal to) a flow event of a given magnitude, all three (3) methods mentioned above can be used effectively to estimate the frequencies of low flow events.

The raw flow data from Wilkes-Barre and Danville gauging stations were analyzed using the: Weilbull, Gumbel and Log Pearson Type III distributions (Linsley, 1992) and (USGS, 2008g). These three probability distributions were considered before selecting the probability distribution that best fits the data. The equations for each probability density distribution is available (Linsley, 1992). Plots comparing the three (3) calculated frequency distributions, as well as the extrapolation of log Pearson Type III distributions at the Danville and Wilkes-Barre gage stations, can be found in Figure 2.4-42 and Figure 2.4-43, respectively.

Table 2.4-38 summarizes the recurrence intervals calculated for the record low flows at Wilkes-Barre and Danville gauging stations. Figure 2.4-44 and Figure 2.4-45 illustrate the discharge curves for Danville and Wilkes-Barre, respectively.

Using the drainage area ratio transfer method as suggested by the Pennsylvania Department of Environmental Protection (PADEP), low flow statistics were interpolated for the ungaged water supply intake located at Susquehanna River Mile 165 based on statistics that were developed using the data recorded at the upstream (Wilkes-Barre) and downstream (Danville) gauging stations (PADEP, 2008). When applying this method using the low flow statistics calculated at the Wilkes-Barre gage station, the 1-day, 10-year average low flow (Q1,10) was estimated as 818 cfs (23 m^3/s) (Table 2.4-37). The 7-day, 10-year low flow condition (Q7,10) estimated at Wilkes-Barre as the design low flow condition is 850 cfs (24 m^3/s).

Susquehanna River Basin Drought

The PADEP is responsible for the drought monitoring and management. The PADEP uses drought indicators (i.e. stream flow, soil moisture and precipitation) to provide timely identification of developing drought conditions. Stream flows have been widely used as an indicator of a developing drought. For this evaluation, 30-day average stream flow values computed by the USGS (USGS, 2008c) (USGS,2008d) were used to evaluate drought status based on stream flow percentiles. Figure 2.4-47 and Figure 2.4-48 shows the 30-day moving average for 2007 and 2008 stream flow for Danville and Wilkes-Barre USGS gauging station, respectively. For stream flows, the 25, 10 and 5 percentile color bands are used as indicators for drought watch, warning, and emergency, respectively.

When drought conditions occur, the SRBC commission has the authority to release water from the Cowanesque Reservoir to augment the Susquehanna River flow. Currently, this release is initiated by a flow of less or equal to 868 cfs (25 m^3/s) at the USGS Wilkes-Barre gauging station (Soya, 1991).

2.4.11.4 Future Controls

There are no future controls that could create or exacerbate low flow condition on that could affect the ability of potential BBNPP safety-related facilities to function adequately.

2.4.11.5 Plant Requirements

2.4.11.5.1 Minimum Safety-Related Cooling Water Flow

In terms of plant requirements, the ESWS provides flow for normal operating conditions, for shutdown/cool down and for Design Basis Accident (DBA) conditions. The ESWS pump in each train obtains water from the ESWS cooling tower basin of that train and circulates the water through the ESWS. Heated cooling water returns to the ESWS cooling tower to dissipate its heat load to the environment. Makeup water is required to compensate for ESWS cooling tower water inventory losses due to evaporation, drift, and blowdown associated with cooling tower operation. Water to the ESWS cooling tower basins under normal operating is provided by the Raw Water Supply System. During shutdown/cool down conditions, makeup water is provided by the Essential Service Water Emergency Makeup System (ESWEMS). Water is stored in the ESWS cooling tower basin, which provides at least 72 hours of makeup water for the ESWS cooling tower following a DBA. After 72 hours have elapsed under DBA conditions, emergency makeup water to the tower basins is provided by the safety-related ESWEMS Retention Pond.

Under normal operating and normal shutdown/cooldown conditions, the ESWS cooling tower basins will be supplied with non-safety related makeup water pumped from the Raw Water Supply System (RWSS) at an average rate of 1,713 gpm (7,124 lpm). The makeup water serves to replenish water losses due to cooling tower evaporation and drift at an average rate of 1,142 gpm (4,322 lpm) and 2 gpm (8 lpm), respectively. The remaining water is released to the Susquehanna River as ESWS cooling tower blowdown at an average rate 569 gpm (2,154 lpm).

During normal plant shutdown/cool down operation, when all four trains of the ESWS are operating assuming a maximum makeup flow rate of 856 gpm (3,242 lpm) for each ESWS cooling tower.

Following a postulated accident, the ESWS cooling tower basins contain sufficient water to accommodate 72 hours of operation without makeup. Four trains of ESWS are assumed to be in operation to respond to an accident. After 72 hours of post-accident operatin, makeup flow is required to be supplied to the four operating ESWS cooling tower bains. The required makeup flow rate will reduce over time as heat loads get lower. The maximum requires makeup rate from the ESWEMS Retention Pond will be 856 gpm (3,242 lpm) to each ESWS cooling tower basin for 27 days, which combined with the initial three day inventory in the ESWS cooling tower basins will fulfill the 30-day post-accident ESWS requirement. Post-accident makeup to the ESWS cooling tower basins is pumped from the ESWEMS Retention Pond using pumps located in the safety-related ESWEMS Pumphouse. There are no low flow or low water conditions that could affect the ability of the ESWEMS to function properly.

2.4.11.5.2 Minimum Normal Operating Water Flow

Plant Requirements

The normal BBNPP plant water demand will be approximately 25,729 gpm (97,384 lpm). This water will be drawn from the Susquehanna River through the CWS Makeup Water Intake Structure.

2.4.11.5.2.1 Susquehanna River Flow

Water Supply Intake and Pumphouse Structure

The minimum daily flow of 532 cfs (15 m^3/s) recorded at the Wilkes-Barre gage station upstream from the BBNPP intake structure will bring the water level near the intake to approximately elevation 485.3 ft (147.9 m) msl (Soya, 1991). Therefore, the river intake system will accommodate river levels as low as 484 ft (148 m) msl, which is the low water level used for the intake design.

Water treatment will be required for both influent and effluent water streams. The Circulating Water Treatment System provides treated water for the CWS and consists of three phases: makeup treatment, internal circulating water treatment and blowdown treatment. The RWSS Water Treatment System provides treated water for the ESWS and power plant makeup. Detailed information regarding the water treatment process is described in ER Section 3.3.2

Circulating Water System

Under normal plant operating conditions, BBNPP uses the CWS to dissipate heat from the turbine condenser and Closed Cooling Water System. A closed-cycle, wet cooling system is used for BBNPP similar to the existing SSES cooling system. Makeup water for the CWS will be pumped from the Susquehanna River at an average makeup rate to the CWS of 23,808 gpm (90,113 lpm). Makeup water to the CWS cooling tower is required due to evaporation, drift and blowdown.

2.4.11.5.3 Plant Water Effluent

The plant water effluent will consist mainly of the blowdown from the CWS and ESWS cooling towers. The blowdown from the CWS and ESWS cooling towers and miscellaneous low volume waste are directed to the Waste Water Retention Basin. The discharge velocity will be sufficient to mix the effluent with the river water for a 7-day, 10-year low flow condition estimated at Wilkes-Barre as the design low flow condition (850 cfs (24 m^3/s)), in order to minimize thermal effects. These anticipated discharge conditions meet the existing Pennsylvania Water Quality standards.

2.4.11.6 Heat Sink Dependability Requirements

The normal source of water for the CWS and ESWS is the CWS Makeup Water Intake Structure on the Susquehanna River. The ESWEMS Retention Pond will be the emergency source of water for the ESWS. The low flow conditions in the Susquehanna River do not influence the dependability of the ESWEMS Retention Pond since the ESWEMS Retention Pond is designed to provide a 27 day supply of water.

Design basis heat loads for various plant modes are provided in Section 9.2.5 and U.S. EPR FSAR Section 9.2.5.

2.4.11.7 References

Linsley, 1992. Probability Concepts in Planning, Water-Resources Engineering, B.J. Clark and E. Castellano, ed., McGraw-Hill, Inc., New York, pp. 140-144 and pp. 808-809 (Table A-5).

PADEP, 2008. Computing Low Flow Statistics for Ungaged Locations on Pennsylvania Streams By Use of Drainage Area Rations, Website: http://pa.water.usgs.gov/pc38/flowstats/revised_deplowflow.pdf, Date accessed: March 27, 2008.

SRBC, 2008a. Susquehanna River Basin Commission Fact Sheet. Website: http://www.srbc.net/pubinfo/docs/Susq%20River%20Basin%20General%20(11_06).PDF , Date accessed: May 09, 2008.

Soya, 1991. Depth-Level-Flow Relationship of the Susquehanna River at the Susquehanna SES Environmental Laboratory. Ecology III, Inc. October 1991.

NRC, 2007. Combined License Applications for Nuclear Power Plants (LWR Edition), Regulatory Guide 1.206, Revision 0, U.S. Nuclear Regulatory Commission, June 2007.

USGS, 2008a. National Water Information System, Wilkes-Barre, PA: Web Interface, Website: http://waterdata.usgs.gov/nwis/dv/?site_no=01536500&agency_cd=USGS&referred_module=sw , Date accessed: January 3, 2008.

USGS, 2008b. National Water Information System, Danville, PA, Website: http://waterdata.usgs.gov/nwis/nwisman/?site_no=01540500&agency_cd=USGS, Date accessed: January 3, 2008.

USGS, 2008c. 30-day Moving Average, Station 01536500 Susquehanna River at Wilkes-Barre, PA, Website: http://pa.water.usgs.gov/monitor/sw/images/f30_01536500.html, Date accessed: June 19, 2008.

USGS, 2008d. 30-day Moving Average, Station 01540500 Susquehanna River at Danville, PA, Website: http://pa.water.usgs.gov/monitor/sw/images/f30_01540500.html, Date accessed: June 19, 2008.

USGS, 2008e. USGS 01540500 Susquehanna River at Danville, PA, Surface Water Field Measurements, Website: http://waterdata.usgs.gov/nwis/measurements?site_no=01540500&agency_cd=USGS&format=html_table, Date accessed: June 24, 2008.

USGS, 2008f. USGS 01536500 Susquehanna River at Wilkes-Barre, PA, Surface Water Field Measurements, Website http://waterdata.usgs.gov/nwis/measurements?site_no=01536500&agency_cd=USGS&format=html_table, Date accessed: June 24, 2008.

USGS, 2008g. Computing Low-Flow Statistics for Ungaged Locations on Pennsylvania Streams By Use of Drainage-Area Ratios, http://pa.water.usgs.gov/pc38/flowstats/revised_deplowflow.pdf, Date accessed: March 27, 2008.}

25 Pa. Code PAR 93.7. Specific Water Quality Criteria, The Pennsylvania Code (July 19, 2008)

2.4.12 GROUND WATER

The U.S. EPR FSAR includes the following COL Item in Section 2.4.12:

> A COL applicant that references the U.S. EPR design certification will provide site-specific information to identify local and regional ground water reservoirs, subsurface pathways, onsite use, monitoring or safeguard measures, and to establish the effects of ground water on plant structures.

This COL Item is addressed as follows:

{This section provides a description of the hydrogeologic conditions present at, and in the vicinity of the BBNPP site. This section describes the regional and local ground water resources that could be affected by the construction and operation of BBNPP. The regional and site-specific data on the physical and hydrologic characteristics of these ground water resources are summarized to provide the basic data for an evaluation of potential impacts on the aquifers of the area.}

{Section 2.4.12.1 through Section 2.4.12.6 are added as a supplement to the U. S. EPR FSAR.

2.4.12.1 Description and Use

2.4.12.1.1 {Hydrogeologic Setting

The BBNPP site covers an area of 424 ac (172 ha) within the Owner Controlled Area of 882 acres (357 hectares). It is located on a flat upland terrace above the North Branch of the Susquehanna River (NBSR) in Luzerne County, Pennsylvania, approximately 3.0 miles (4.8 km) northeast of Berwick (Figure 2.4-2). The climate of the site area is primarily temperate, with warm, humid summers and cold winters. The topography of the site is gently rolling with an east-west trending set of ridges located north of the site. At the BBNPP, ground elevations range from 650 ft (198 m) above mean sea level (msl) along Walker Run in the southwest corner of the site up to elevations of approximately 800 ft (244 m) msl on the hilltop located just north of the power block (USGS, 1989). North of Beach Grove Road, the elevation rises sharply upward to elevations of 1,100 to 1,150 ft (335 to 351 m) msl along the crest of the ridge (Figure 2.4-3). Thus, total topographic relief in the immediate vicinity of BBNPP is approximately 500 ft (150 m).

The BBNPP site lies toward the northeastern end of the Ridge and Valley Province in northeastern Pennsylvania (Figure 2.5-8). The site is only 8 miles (13 km) south of the Appalachian Plateaus Province. Within the Ridge and Valley Province, the site lies in the Susquehanna Lowland Section (Figure 2.5-8), close to the NBSR. In the vicinity of the BBNPP site, the total thickness of Paleozoic sedimentary rocks overlying the Precambrian crystalline basement is approximately 33,000 ft (10,058 m), as described in Section 2.5.1.1.3.1.1. The Paleozoic sedimentary rocks form a wedge that is thickest in eastern Pennsylvania and gradually thins to the north and west across the state. The sedimentary rocks include sandstone, siltstone, shale, and limestone units, with lesser amounts of coal and conglomerate of Cambrian to Pennsylvanian age. The coal and conglomerate units are generally limited to the Mississippian- and Pennsylvanian-age rock formations (i.e., the uppermost Paleozoic formations). See Section 2.5.1 for additional details regarding stratigraphy and structural geology.

Ground water in the bedrock formations is present primarily in secondary openings, including fractures, joints, and bedding plane separations. Solution of calcareous material, especially along fractures and bedding planes, greatly increases the secondary porosity and permeability of the carbonate rock units. Primary porosity and permeability of bedrock is typically very low. As a result, the ability of the non-carbonate bedrock to store ground water or yield water to wells is typically less than the carbonate formations.

In the northeastern and northwestern corners of Pennsylvania, the bedrock is overlain by a variable thickness of glacial till, outwash, colluvium, kame, and kame terrace deposits of Pleistocene age (Figure 2.4-40). A large percentage of these surficial glacial materials were deposited during the last major glacial advance (Wisconsinan Stage; 17,000 to 22,000 years before present). The BBNPP site lies at the edge of where the Wisconsinan glacier made its farthest advance (Figure 2.4-40). As a result, end moraine deposits have been mapped at the BBNPP site (Crowl, 1980).

Extensive amounts of outwash sand and gravel were deposited in major stream valleys as the Illinoian and Wisconsinan Stage glaciers advanced and retreated. These outwash and kame terrace deposits constitute some of the most permeable aquifers in the region (Lohman, 1937) (Hollowell, 1971) (Taylor, 1984) (Williams, 1987). The outwash deposits in the Susquehanna River valley are especially thick and permeable in some places. In these glacial, alluvial, and other unconsolidated deposits, the porosity and permeability are primary (i.e., intergranular).

Most of Pennsylvania lies in three primary physiographic provinces (Figure 2.5-8). From northwest to southeast, these are:

- Appalachian Plateaus Province,
- Ridge and Valley Province, and
- Piedmont Province

A brief discussion of ground water within the provinces is included below to provide an introduction to Pennsylvania's hydrogeologic regimes.

2.4.12.1.1.1 Appalachian Plateaus Physiographic Province

The Appalachian Plateaus Province extends over most of West Virginia, more than one-half of Pennsylvania, and small parts of westernmost Virginia and Maryland. The province lies approximately 8 miles (13 km) north and west of the BBNPP site. It is bounded on the east and southeast by the Ridge and Valley Province. The Appalachian Plateaus Province is underlain by Cambrian- to Permian-age (i.e., Paleozoic) rocks that are continuous with those of the Ridge and Valley Province, but in the Appalachian Plateaus Province the sedimentary rocks are nearly flat-lying, rather than being intensively folded and faulted (Trapp, 1997).

The Appalachian Plateau aquifers are contained in Paleozoic sedimentary rocks consisting mostly of shale, sandstone, conglomerate, and limestone. Coal beds are found in rocks of Pennsylvanian age. The water-yielding characteristics of these aquifers vary significantly due to local variations in lithology and thickness of the geologic units. Most of the productive aquifers lie within sandstones or conglomerates, but many limestone formations can also yield significant volumes of water (Trapp, 1997).

Sand and gravel deposits derived from glacial outwash, kame terrace, and ground moraine also form a very productive aquifer (Glacial Overburden aquifer) in this province.

2.4.12.1.1.2 Ridge and Valley Physiographic Province

The northeast-southwest trending Ridge and Valley Physiographic Province extends from West Virginia and Maryland to northeastern Pennsylvania, and covers approximately one quarter of Pennsylvania. This Ridge and Valley Province is bounded to the north and west by the Appalachian Plateaus Province and to the southeast by the Piedmont Province (Figure 2.5-8). the Ridge and Valley Province is characterized by layered Paleozoic sedimentary rocks that have been complexly faulted and folded. These rocks range in age from Cambrian to Pennsylvanian. Elongated mountain ridges are formed by well-cemented sandstones and conglomerates that are resistant to weathering. These ridges typically are the remnant flanks of breached anticlines. Limestone, dolomite, and shale are more easily weathered and eroded and, as a result, form the intervening valleys between the ridges.

The principal aquifers in the Ridge and Valley Province are carbonate rocks (limestone and dolomite) and sandstones that range in age from early to late Paleozoic Era. Most of the more productive aquifers are composed of carbonate rocks, primarily limestone, and are found primarily in the valleys. However, the water-yielding character of the carbonate rocks depends upon the degree of fracturing and development of solution cavities in the rock. Sandstone formations can also yield large volumes of water where these rocks are well fractured. Generally, the carbonate aquifers occur in early Paleozoic rocks; whereas, the sandstone aquifers are more frequently found in late Paleozoic rocks (Trapp, 1997).

Sand and gravel deposits derived from glacial outwash, kame terrace, and ground moraine also form a very productive aquifer (Glacial Overburden aquifer) in this province.

2.4.12.1.1.3 Piedmont Physiographic Province

The Piedmont Physiographic Province lies southeast of the Great Valley Section of the Ridge and Valley Province (Figure 2.5-8). The Piedmont Province is bounded on the east by the Fall Line. The Fall Line is a zone of rapids that marks the position where streams flow from Piedmont Province's consolidated rocks to the Coastal Plain's unconsolidated sediments. The Piedmont Province is about 60 miles (97 km) wide in southeastern Pennsylvania.

In Pennsylvania, the Piedmont Province is divided into the Piedmont Lowland Section, the Gettysburg-Newark Lowland Section, and the Piedmont Upland Section (Figure 2.5-8). With the exception of the Piedmont Lowland Section, the majority of the Piedmont Province consists mainly of rolling low hills and valleys developed on red sedimentary rock (DCNR, 2007a). Almost all of the underlying sedimentary rock dips to the north or northwest with relatively low relief. The Piedmont Lowland Section consists of broad, moderately dissected valleys separated by broad low hills and is developed primarily on limestone and dolomite rock highly susceptible to karst topography (DCNR, 2007b).

The Gettysburg-Newark Lowland Section runs adjacent to the Great Valley Section of the Ridge and Valley Province as shown in Figure 2.5-8. The Gettysburg-Newark Section consists mainly of rolling low hills and valleys developed on red sedimentary fluvial and lacustrine clastic rock deposits (Root, 1999). These sedimentary basins formed within early Mesozoic crustal rift zones and contain shale, sandstone, and conglomerate, interbedded locally with basalt lava flows and minor coal beds. In some places, these rocks are intruded by diabase dikes and sills (Trapp, 1997).

The Piedmont Upland section is underlain primarily by metamorphosed and complexly deformed sedimentary, volcanic, and plutonic rocks (Crawford, 1999). In this section, metacarbonate rocks of Cambrian and Ordovician age are located on the western side and Mesozoic clastic sedimentary rocks are located on the eastern side (Crawford, 1999). Elevation in the Piedmont Province ranges from 20 to 1,355 ft (6 to 413 m) msl (DCNR, 2007a) (DCNR, 2007b).

Aquifers in the Piedmont Province lie predominantly in the shallow, fractured igneous and metamorphic rocks. In topographically low areas, aquifers also exist within the carbonate rocks and sandstones (Trapp, 1997).

2.4.12.1.2 Regional Hydrogeologic Description

In the Ridge and Valley Province of Pennsylvania, ground water is found in and produced from almost all of the rock formations, including shales and clay shales. This is partially due to the fact that they have been folded, faulted, and fractured. As a result, there are no extensive aquitards in the vicinity of BBNPP. In the clastic sedimentary rocks (mainly sandstones, siltstones, and shales), the ability of the rock to store and transmit ground water is greatly affected by the degree of fracturing, the separation (aperture) or open space within the fractures, and the degree of cementation or infilling of the fractures and joints.

The bedrock stratigraphic units cropping out within and surrounding the BBNPP site are shown on Figure 2.4-49 and Figure 2.4-50. The BBNPP site is located on the north limb of the Berwick Anticlinorium, a moderately complex, first-order fold which trends in a northeast-southwest direction (N76°E) and plunges to the east-northeast at 2 to 4 degrees (Inners, 1978). The fold is slightly asymmetrical within the Berwick quadrangle. Dips average about 35° on the south limb and 40° on the north limb; however, dip angles greater than 75° have been recorded on the north limb (Inners, 1978). The plan view of the surface bedrock units are shown on Figure 2.4-49 and Figure 2.4-50. A geologic cross section (A-A') oriented perpendicular to the centerline of the anticlinorium is shown in Figure 2.4-50. The Mahantango Formation (Middle Devonian) underlies nearly the entire area south of Beach Grove Road all the way southward to the NBSR, including the BBNPP and SSES sites. The formations that are younger than the Mahantango Formation are located north of the BBNPP site and are completely absent at the site. Formations that are older than the Mahantango Formation (i.e., Catskill Formation and Trimmer Rock Formation) lie deep beneath the BBNPP site and crop out to the west-southwest along the centerline of the anticlinorium (Figure 2.4-49 and Figure 2.4-50).

The bedrock is overlain by a variable thickness of glacial till, outwash, colluvium, kame, and kame terrace deposits of Pleistocene age (Figure 2.4-51). A large percentage of these surficial glacial materials were deposited during the last major glacial advance (Wisconsinan Stage; 17,000 to 22,000 years before present). Extensive amounts of outwash sand and gravel were deposited in major stream valleys as the Illinoian and Wisconsinan glaciers advanced and retreated. These outwash deposits contain some of the thickest, coarsest, best sorted, and most permeable glacial deposits in the region. As a consequence, the glacial overburden deposits, along with recent alluvium, constitute the most productive aquifer in the area (referred to as the Glacial Overburden aquifer).

Glacial overburden deposits and rock formations are described below, in order of youngest to oldest.

2.4.12.1.2.1 Glacial Overburden Aquifer

The Glacial Overburden aquifer unit includes all of the glacial outwash, kame, kame terrace, till, colluvium, alluvium, and other unconsolidated surficial deposits that overlie the bedrock, are saturated, and transmit ground water (Figure 2.4-51 and Figure 2.4-52). This aquifer can be divided into two parts. The upland aquifer includes all of the unconsolidated deposits located above major stream valleys, including the overburden deposits immediately surrounding BBNPP. The valley aquifers include glacial outwash and recent alluvium contained within the lowland valleys of major streams (e.g., NBSR). These outwash and kame terrace deposits constitute some of the most permeable aquifers in the region (Lohman, 1937) (Hollowell, 1971) (Taylor, 1984). The outwash deposits in the Susquehanna River Valley are especially thick and permeable in places.

2.4.12.1.2.2 Catskill Formation

The Catskill Formation consists of three members: the upper Duncannon Member, the middle Sherman Creek Member, and the lower Irish Valley Member. The Duncannon Member consists of approximately 1,100 ft (335 m) of repetitive, fining-upward cycles of greenish-gray and grayish-red sandstone, siltstone, and shale; each cycle is generally 30 to 65 ft (9 to 20 m) thick (Williams, 1987). The Sherman Creek Member is approximately 2,500 ft (762 m) thick and consists of interbedded grayish-red shale, siltstone, and sandstone. The Irish Valley Member is approximately 1,800 to 2,000 ft (549 to 610 m) thick and also consists of interbedded shale, siltstone, and sandstone. However, this member is primarily greenish-gray to gray. Altogether, the Catskill Formation is approximately 5,400 to 5,600 ft (1,646 to 1,707 m) thick. The Catskill Formation is not present at the BBNPP site. It crops out at the ground surface approximately 1.3 to 2.9 miles (2.1 to 4.7 km) north of the site (Figure 2.4-49). The Duncannon Member is the most resistant to erosion and forms the steeper southern flank of Lee Mountain (north of the site) and the northern flank of Nescopeck Mountain south of the NBSR (Figure 2.4-50).

2.4.12.1.2.3 Trimmers Rock Formation

The Trimmers Rock Formation consists of medium dark gray, very fine to fine-grained sandstone (25 percent), medium to dark gray siltstone and silty shale (60 percent), and medium dark to dark gray, silty clay shale (15 percent) (Inners, 1978). Sandstone occurs mostly in the upper 2,300 to 2,500 ft (700 to 760 m) in beds 2 in to 5 ft (5 to 152 cm) thick (Inners, 1978). The Trimmers Rock Formation is moderately resistant to erosion, underlies upland terrain of moderate relief, and forms the steep escarpments on the north and south sides of the Susquehanna River Valley (Inners, 1978). The formation thickness is approximately 3,000 ft (915 m) on the north side of the anticlinorium.

2.4.12.1.2.4 Harrell and Mahantango Formations

The Harrell Formation is a dark gray to grayish black clay shale and silty clay shale. It is noncalcareous, locally carbonaceous, pyritic, and frequently jointed. The Formation is about 120 ft (37 m) thick (Inners, 1978).

The Mahantango Formation is approximately 1,500 ft (457 m) thick and consists primarily of dark gray, silty to very silty claystone. The Tully Member (the uppermost section of the Mahantango Formation) is about 50 to 75 ft (15 to 23 m) thick and consists of argillaceous, fine-grained limestone and calcareous clay shale (Inners, 1978). Frequent joints and intense cleavage development causes the claystone to become splintery, chippy, and fragmented upon weathering. The Mahantango Formation has low to moderate resistance to weathering and forms lowland terraine, with knobs and ridges of moderate relief formed by more resistant silty and calcareous beds (Inners, 1978).

2.4.12.1.2.5 Marcellus Formation

The Marcellus Formation is approximately 350 ft (107 m) thick and consists of dark gray to black clay shale (Inners, 1978). It is slightly silty in the upper part, noncalcareous to slightly calcareous, pyritic, and carbonaceous. This formation has low resistance to weathering and forms lowlands, but also forms several knobs on the crest of the anticlinorium east of Berwick (southwest of BBNPP).

2.4.12.1.2.6 Onondaga and Old Port Formations

The Onondaga Formation is approximately 175 ft (53 m) thick and consists of medium dark gray, calcareous shale and gray argillaceous, fine-grained limestone (Inners, 1978).

The Old Port Formation is 100 to 150 ft (30 to 45 m) thick. It consists of dark gray, argillaceous, fine-grained limestone; medium to dark gray, calcareous clay shale; and medium gray, silty, cherty, fine-grained limestone (in descending stratigraphic order). Cleavage is moderately well developed.

2.4.12.1.2.7 Keyser and Tonoloway Formations

The Keyser Formation is composed of gray to bluish gray, thin- to thick-bedded limestone. The limestone is, in part, argillaceous and dolomitic. The Tonoloway Formation consists of laminated, gray to dark gray limestone. Dolostone occurs in the lower part. These two formations are the primary carbonate aquifers in the area.

2.4.12.1.2.8 Water Yielding Characteristics of the Geologic Materials

Domestic and nondomestic wells have been installed in every one of the geologic formations in the area. There are, however, large variations in hydraulic conductivity properties and well yields within each formation, and between formations. Hydraulic conductivities and well yields in the rock formations will be greater if the frequency of fracturing is high, apertures of the fracture openings are large, and the degree of cementation in the fractures is low.

Table 2.4-39 presents physical characteristics data for wells located in the NBSR Basin in Pennsylvania (Taylor, 1984). In general, wells have been installed in all formations and the median depth to water in all formations ranges from 16 to 60 ft (5 to 18 m) below ground surface (bgs). The reported well yields and specific capacities for these wells are listed in Table 2.4-40. Wells screened in alluvium and glacial deposits generally have the highest values of yield and specific capacities, which implies that the hydraulic conductivity of this aquifer is also generally greater than the underlying rock units. According to data in Table 2.4-40, 25 percent of the nondomestic wells screened in alluvium and/or glacial deposits can produce more than 500 gpm (1,893 lpm). Wells screened in the Lower Devonian Onondaga, Old Port, Keyser, and Tonoloway Formations display higher yields and specific capacities than the other rock units and, in some cases, the yields and specific capacities approach those of the alluvium and glacial deposits. The Lower Devonian formations consist of limestone, dolomite, and calcareous shale units. Dissolution along fractures, joints, and bedding planes has enlarged the openings and thereby created a greater number of water-producing zones that more efficiently transmit ground water. Yields and specific capacities of wells screened in the Mahantango and Marcellus Formations are moderately high; 25 percent of the measured well yields were greater than 175 gpm (662 lpm).

Table 2.4-41 lists specific capacities for wells in a smaller area that includes the BBNPP site. For this set of data, the median and 75th-quartile specific capacities for the alluvium/glacial outwash aquifer were again the highest, followed by the specific capacities of the Lower Devonian formations (Onondaga, Old Port, Keyser, and Tonoloway).

When the well yield and specific capacity data are evaluated based on lithologic characteristics alone and not formation names (Table 2.4-41 and Table 2.4-42), it is clear that the wells screened in sand and gravel (e.g., alluvium, glacial outwash, and kame deposits) and carbonate rocks generally have the highest values of yield and specific capacity. A frequency distribution chart (Figure 2.4-53) shows the general relationships between well yields and lithologic rock type. Even shales have moderate well yields and specific capacities, so they cannot be classified as aquitards.

If well yields are grouped according to topographic setting (Figure 2.4-54), then the valley wells generally have greater well yields and the wells located on ridges and hilltops generally have lower yields. This can be explained by the fact that the carbonate rocks almost always occur at shallow depth in the valley bottoms and the ridges are generally capped by more resistant sandstones and siltstones. Thus, the correlation between well yields and topographic setting is actually a reflection of the relationship between well yields and rock lithologies. In addition, the most permeable sand and gravel deposits are located in the valleys.

Besides the factors of lithology and topographic setting, there are other factors which affect the fracturing of rocks, well yields, and specific capacities of wells. In general, the size and frequency of water-bearing zones decreases with depth, because the confining pressure increases and the fractures close as the weight of rock above increases. In the Berwick area, Williams (1987) has shown this to be true for both carbonate and non-carbonate rock types (Figure 2.4-55). Thus, the hydraulic conductivities of all rock formations are expected to decrease with depth.

2.4.12.1.2.9 Precipitation, Water Budgets, and Ground Water Recharge

A water budget is a quantitative expression of the major components of the hydrologic cycle. Water that enters a basin as precipitation is balanced against water that leaves a basin as evapotranspiration and streamflow. This balance can be expressed by the following equation:

$$P = R_s + R_g + ET + \Delta S$$

where P = precipitation, R_s = surface or direct runoff, R_g = ground water discharge to streams and wells, ET = water lost by evaporation and transpiration, and ΔS = change in the amount of water in storage. Total streamflow equals $R_s + R_g$. P, R_s, R_g and ΔS can be measured directly. ET is usually estimated as a residual of the equation.

The annual amount of precipitation in the NBSR Basin is highly variable, spatially and temporally. (Taylor, 1984) used precipitation data collected from eight weather stations in the NBSR Basin and several outside the basin to prepare a contour map showing the distribution of average annual precipitation for the basin (Figure 2.4-56). The data were collected between 1941 and 1970. Relatively low levels of precipitation occurred along the valleys of the Susquehanna and Lackawanna Rivers, and in the northwestern part of the Basin. Based on Figure 2.4-56, the average annual precipitation for the BBNPP site was approximately 38 to 39 in (97 to 99 cm) per year between 1941 and 1970. Average annual precipitation does not reflect the variability that can occur from year to year at a single location. Figure 2.4-57 presents the variability of annual precipitation at two stations in the southern part of the NBSR Basin. The total annual precipitation varied from 25 to 56 in (64 to 142 cm) per year between 1931 and 1980.

(Taylor, 1984) evaluated the water budgets for three drainage basins in the NBSR Basin of Pennsylvania, using data from a 20-year span (1961 - 1980). The locations of these three basins are presented in Figure 2.4-58. Towanda Creek and Tunkhannock Creek basins are both located in the Appalachian Plateaus Province; whereas, the Wapwallopen Creek Basin is located in the Ridge and Valley Province. The Wapwallopen Creek Basin is also located closest to the BBNPP site (approximately 2 miles (3.2 km) southeast from the BBNPP across the NBSR). A summary of the water budget analyses are presented in Table 2.4-43. The average annual rainfall for the Wapwallopen Creek Basin (44 in/yr (112 cm/yr)) was greatest, and so was ground water discharge (14.2 in/yr (36 cm/yr)). From this table, the high variability in rainfall, surface runoff, and ground water discharge was observed in all three basins. The rate of evapotranspiration was somewhat less variable. (Taylor,1984) noted that, of the three basins, ground water recharge rates (approximately equal to ground water discharge rate) were greatest in the Wapwallopen Creek Basin. He calculated that the average rate of ground water recharge is approximately 14.2 in/yr (36 cm/yr) over the entire basin, which equates to 32 percent of the average annual precipitation. Figure 2.4-59 presents the variability that was determined for total runoff and ground water runoff of Wapwallopen Creek Basin over a 60-year period. Annual ground water discharge (equal to annual ground water recharge) ranged from approximately 7 in/yr (18 cm/yr) to 22 in/yr (56 cm/yr).

Taylor (Taylor,1984) also calculated ground water recharge rates per unit area, based on the total area of each watershed. Annual ground water recharge rates for Wapwallopen Creek Basin ranged from 218 to 721 gpm/mi^2 (319 to 1,054 lpm/km^2) over 20 years, and averaged 469 gpm/mi^2 (685 lpm/km^2). Williams (Williams, 1987) analyzed two other small drainage basins west of BBNPP (East Branch of Chillisquaque Creek and Fishing Creek) and found similar hydrologic conditions. Data presented in Table 2.4-43 compares a dry period and a wet period for the two basins evaluated by Williams (Williams, 1987). For the two basins evaluated by Williams (Williams, 1987), the annual evapotranspiration rate does not vary significantly between the two periods; however, surface water runoff and ground water discharge did decline significantly during the dry period (Table 2.4-43).

2.4.12.1.2.10 Fluctuations in Ground Water Elevations

Water contained in aquifers is derived from surface infiltration and recharge processes. The amount of rise and fall in ground water elevations is reflective of the annual cycles of recharge. During periods of low rainfall and high evapotranspiration, ground water continues to flow toward streams, ponds, wetlands, wells, and other points of discharge. Low rates of recharge and increased ET (water loss by evaporation and transpiration) will cause ground water levels to gradually decline. Ground water elevations typically decline in summer and fall when precipitation rates are at their annual low and evapotranspiration rates are at their greatest.

The effective porosity of the aquifer also affects ground water elevations. Aquifers with large effective porosities store more water. As a result, more ET or other stresses (such as pumping wells) on these aquifers have less of an effect on the ground water elevations. Bedrock aquifers with low primary porosity and permeability characteristics do not store a lot of water. As a result, low recharge rates or high rates of ground water removal will cause water levels in these aquifers to fluctuate more quickly and the magnitude of fluctuations is usually greater.

The USGS monitors ground water elevations in select monitoring wells across the Commonwealth of Pennsylvania. Hydrographs of several of these monitoring wells located in Luzerne County are presented in Figure 2.4-60 and Figure 2.4-61. Hydrographs for two wells screened in the Catskill Formation (Figure 2.4-60) show that annual fluctuations of water levels were approximately 6 to 8 ft (1.8 to 2.4 m). The highest ground water levels generally occurred in the winter and spring months each year. Hydrographs for two wells screened in the glacial outwash (Figure 2.4-61) show that annual fluctuations of water levels were approximately 8 to 14 ft (2.4 to 4.3 m). In general, the highest ground water levels in these two wells also occurred in the winter and spring months each year.

2.4.12.1.3 Local and Site-Specific Hydrogeology and Sources

At the BBNPP, ground elevations range from 650 ft (198 m) above mean sea level (msl) along Walker Run in the southwest corner of the site up to elevations of approximately 800 ft (244 m) msl on the hilltop located just north of the power block (USGS, 1989). North of Beach Grove Road, the elevation rises sharply upward to elevations of 1,100 to 1,150 ft (335 to 350 m) msl along the crest of the ridge (Figure 2.4-3). Thus, total topographic relief in the immediate vicinity of BBNPP is approximately 500 ft (152 m). The creeks, ponds, and wetlands within the area influence the shallow aquifer systems beneath the site, and vice versa.

Geotechnical and hydrogeological investigations have provided information on the BBNPP site to depths of 600 ft (183 m) bgs. Subsurface information was collected from over 73 borings and monitoring wells. A detailed description of the geotechnical subsurface investigation, including the locations of the borings is provided in Section 2.5. Details regarding the depth and geologic materials encountered in these borings are also described in Section 2.5.

Forty-one (41) ground water observation wells were installed across the site (Table 2.4-44). Twenty-six (26) of these wells were installed as 2 or 4 in (5 or 10 cm) diameter monitoring wells. The remaining 15 monitoring wells are 1 to 1.5 in (2.5 to 3.8 cm) in diameter and were installed in geotechnical borings once the borings were completed. Table 2.4-44 specifies which monitoring wells were installed in geotechnical borings and which specific boring is associated with each well. Of the 41 monitoring wells installed, 14 of them are screened in the glacial overburden deposits, or Glacial Overburden aquifer ("A" wells), 19 are screened in shallow bedrock ("B" wells, including MW313C, excluding MW302B and MW307B), and 8 are isolated in deeper bedrock which are 175 ft (53 m) bgs or deeper ("C" wells, including MW302B and MW307B, excluding MW313C). Monitoring wells MW302B and MW307B were originally intended to be "B" wells. However, shallow bedrock was very tight with few water-bearing zones. Hence, these two wells were drilled deeper than originally intended and are now grouped with the "C" wells. The total depth of Monitoring Well MW313C was originally intended to be 200 ft (61 m) deep. However, blockage occurred near the bottom of the boring and the well could not be installed down to 200 ft (61 m) bgs. Instead, the bottom portion of the boring was grouted and the well screen was set at a depth of 130 ft (40 m) bgs. Therefore, this well is grouped with the shallow bedrock "B" wells.

The locations of monitoring wells are presented on Figure 2.4-62. The wells were located in order to provide adequate distribution with which to determine site ground water levels, subsurface flow directions, and hydraulic gradients beneath the site. Well clusters were installed at selected locations to determine vertical gradients. Monthly water levels were measured in monitoring wells from October 2007 through September 2008 (Table 2.4-45). Water level elevations were also measured monthly in four ponds and seven stream locations. The surface water monitoring locations are shown on Figure 2.4-63. Surface water elevation data are tabulated in Table 2.4-46. The water levels in the four ponds are assumed to be continuous with the local water table in the glacial overburden, and have been used to construct the potentiometric surfaces for the Glacial Overburden aquifer.

Figure 2.4-64 shows the locations of two hydrogeologic cross sections, which are presented in Figure 2.4-65 and Figure 2.4-66. They extend through the entire BBNPP site and continue south and east, respectively, to the Susquehanna River. These cross sections are based on the geotechnical borings and monitoring wells installed at the BBNPP site, monitoring wells at the SSES, and domestic wells north and south of BBNPP.

2.4.12.1.3.1 Geohydrology

The elevations, thicknesses, and descriptions of the geological materials comprising the geological strata encountered to depths up to 600 ft (183 m) bgs were determined from BBNPP geotechnical and hydrogeological borings. Geotechnical and geological descriptions of the material encountered are described in Section 2.5.

2.4.12.1.3.1.1 Glacial Overburden Aquifer

The Glacial Overburden aquifer consists almost entirely of sand and gravel deposited during the Pleistocene Epoch. These deposits include stratified kame, kame terrace, and outwash, as well as unstratified ground moraine, end moraine, and colluvial deposits. On the upland terrace occupied by the BBNPP and SSES, the glacial deposits are 0 to 100 ft (0 to 30 m) thick. Figure 2.4-67 presents a map showing the saturated thickness of the glacial overburden for the entire BBNPP site. The greatest thickness of overburden at the BBNPP site (approximately 60 ft (18 m)) occurs along Beach Grove Road on the north side of the site (at monitoring well MW305C) and southeast of the power block area at monitoring well MW313B).

At the SSES, kame and glacial outwash deposits are up to 100 ft (30 m) thick near the north and eastern sides of the Spray Pond. There is an elongated trough of glacial deposits that trends east-west and parallels Beach Grove Road. This channel thins to the west near the MW303 monitoring well cluster and drops in elevation as it passes eastward through the SSES property. SSES production wells TW-1 and TW-2 are screened in this elongated wedge of glacial sand and gravel. This trough is shown on Figure 2.4-68, which displays the topography of bedrock erosional surface. The "northern trough" probably represents an outwash channel that was deeply eroded by glacial meltwater as the Wisconsinan glacier advanced, and was filled by outwash, kame, and moraine deposits as the glacier overrode the site and then retreated. The northern trough drops in elevation to the east and empties into the Susquehanna River Valley deposit.

A second trough of thick glacial sand and gravel deposits starts near Confers Lane Road (County Road T-438), trends west-southwest, and passes through the southern edge of the BBNPP power block area (Figure 2.4-68 and Figure 2.4-69). As mentioned previously, the greatest thickness of glacial sand and gravel deposits has been measured in the "southern trough" at monitoring well MW313C (Figure 2.4-69).

The northern trough is bounded on the north side by Beach Grove Road and the ridge to the north formed by Trimmers Rock Formation (resistant siltstone and sandstone). The northern trough is separated from the southern trough by a series of hills which represent Mahantango Formation bedrock highs. This series of hills paralleling the bedrock strike represents the more resistant Tully Limestone Member that is found at the top of the Mahantango Shale (described below). These hills include the bedrock high that occurs below the cooling towers at the SSES, the two hills on the northern side of the BBNPP site (location of the CWS Makeup Water cooling towers and apple orchard), and another hill located directly west of the BBNPP cooling tower on the west side of Walker Run. These hills are dissected by small creeks and drainages that run north to south. Walker Run flows through the western notch that separates the hills on the BBNPP site from the hill located west of Walker Run (Figure 2.4-68). A southward-flowing, unnamed creek flows through the eastern notch that separates the two BBNPP hills from the SSES bedrock high. The SSES West Building lies in the bedrock low that separates the SSES bedrock high from the BBNPP bedrock hills (Figure 2.4-68).

Another set of hills (bedrock highs) lie along the southern edge of the BBNPP site and extends westward on the west side of Walker Run and eastward onto SSES property (Figure 2.4-68). Walker Run flows southwestward through a gap between the bedrock hills located halfway between surface water gauging stations G2 and G13 (Figure 2.4-63). Ground water in the southern trough also discharges to the southwest through this gap.

The thickness of the glacial overburden varies from 12.5 to 62.0 ft (3.8 to 18.9 m) in the vicinity of the power block. With the exception of some loose sand pockets, the overburden consists of over-consolidated, brown silty sand and sand containing gravel and large rounded cobbles and boulders. The presence of the boulders increases with depth.

2.4.12.1.3.1.2 Harrell Shale

The Harrell Shale is approximately 120 ft (37 m) thick, is located along the north edge of the site, and dips to the north beneath the ridge of Trimmers Rock Formation. Because the Harrell Shale is weaker and less resistant to weathering and erosion, the northern trough has formed where the Harrell Shale crops out. Lithologically, the Harrell Shale is similar to the noncalcareous Mahantango shale units. It is believed the hydraulic properties of the Harrell Shale are similar to those of the Mahantango Shale (Section 2.4.12.3.2.2)

2.4.12.1.3.1.3 Mahantango Shale

The Mahantango Shale is approximately 1,500 ft (457 m) thick. The uppermost portion of the formation (Tully Member) crops out in the hills where the BBNPP cooling tower is located (Figure 2.4-49). Shale, calcareous shale, and silty shale units of this formation are the uppermost bedrock southward and eastward from the BBNPP site to the Susquehanna River (Figure 2.4-49). Because the Harrell and Mahantango shales are so similar, they will be treated as a single, continuous bedrock aquifer in the area. The shale aquifer is folded, jointed, and fractured. The degree of fracturing is one of the most important factors that affects the hydraulic conductivity of the Mahantango and Harrell Shales, as discussed in Section 2.4.12.3.2.2. The exact depth to the next formation (Marcellus Shale) is unknown but is believed to be 1,000 to 1,200 ft (300 to 365 m) below the BBNPP ground surface. In addition, because of its depth, the hydraulic conductivity of the Marcellus Formation is expected to be much lower than the hydraulic conductivity of the Mahantango Shale. Therefore, the evaluation of the ground water flow system does not include the Marcellus Shale or older (deeper) formations.

2.4.12.1.4 BBNPP Ground Water Use Projections

Surface water from the Susquehanna River will provide the cooling water during the operation of the BBNPP. The CWS Makeup Water Intake Structure is located 700 ft (213 m) south of the SSES water intake structure. The new cooling water pipelines will travel up the hillside and skirt the southern side of the SSES and enter the BBNPP site on the eastern side.

A separate water line will be installed and will bring potable water from the south to the BBNPP site. The potable water line will be installed along Confers Lane and will bring the potable water from a main supply pipeline located along U.S. Route 11. This water, supplied by a municipal water supplier, will be used as a source of drinking water and other non-cooling purposes during plant operation. No on-site ground water use is planned during plant operation.

It is currently estimated that a peak water demand of up to 1,200 gpm (4,542 lpm) will be required for BBNPP construction activities (demands include those for construction personnel, concrete manufacturing, dust control, and hydro testing and flushing). Average construction demand will be less. Ground water extracted from the power block area and the ESWEMS Retention Pond during excavation will be a source of water used during construction. Off site water will be trucked to the site during construction activities, as needed.

Construction activities at the BBNPP should not adversely affect the local or regional ground water systems. Ground water will be pumped from the glacial overburden aquifer in order to keep the excavations dry. A slurry wall, diaphragm wall, or other type of subsurface flow barrier will be installed around the power block area before excavation is initiated in order to minimize ground water intrusion into the excavations, as discussed in Section 2.5.4. Thus, ground water extraction should be minimal (e.g., less than or equal to 600 gpm (< 2,271 lpm)) during construction.

There are currently no known or projected site discharges that could affect the local ground water system.}

2.4.12.2 Sources

2.4.12.2.1 {Regional Ground Water Use

Ground water is used as a source of water within the Ridge and Valley Province of Pennsylvania. The area is dependent on ground water for domestic purposes because the major public water supplies are few and generally separated by large distances. Therefore, homes and non-residential buildings often rely on small wells to supply potable water. An objective of this section is to discuss the U.S. Environmental Protection Agency (USEPA) sole source aquifers within the region, to identify and determine impacts to these aquifers due to the construction and operation of the BBNPP, and to describe the following: ground water use in northeastern Pennsylvania, current users in Luzerne and Columbia counties, current SSES ground water use, and expected future ground water demand for Luzerne County.

2.4.12.2.2 Sole Source Aquifers

The Sole Source Aquifer (SSA) Program, which is authorized by the Federal Safe Drinking Water Act, allows for protection when a community is dependent on a single source of drinking water and there is no possibility of a replacement water supply to be found. The USEPA defines a sole or principal source aquifer as one which supplies at least 50 percent of the drinking water consumed in the area overlying the aquifer (USEPA, 2008).

The BBNPP site is located in USEPA Region 3 (Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia). There are six sole source aquifers in this region (Figure 2.4-70). One of these aquifers, the Seven Valleys aquifer, is located in York County, Pennsylvania along the Pennsylvania-Maryland border. A second sole-source aquifer, the New Jersey Coastal Plain aquifer, is located in New Jersey. However, the Delaware River which is located along the Pennsylvania-New Jersey border is considered a source of recharge for the New Jersey Coastal Plain aquifer. The BBNPP site lies approximately 55 miles (89 km) west of the Delaware River and approximately 90 miles (145 km) north of the Seven Valleys aquifer. The other four sole-source aquifers are located in Maryland and Virginia and are more than 100 mile (161 km) distance from the BBNPP site. All six of these sole source aquifers are beyond the surface water and ground water flow systems of the BBNPP, and will not be impacted by any activities at the site.

2.4.12.2.3 Northeastern Pennsylvania Ground Water Use

Ground water is used extensively as a source of potable water and other purposes in northeastern Pennsylvania. Ground water resources in northeastern Pennsylvania have been evaluated since the 1930's by the Pennsylvania Bureau of Topographic and Geologic Survey (PGS) (Lohman, 1937) (Hollowell, 1971) (Taylor, 1984) and more recently by the USGS (Williams, 1987).

The majority of ground water use is concentrated along the major glacial outwash valleys (e.g., North Branch Susquehanna River, Chemung River, Lackawanna River) and in areas of highest population density. In 1970, the total water use in the NBSR Basin (Pennsylvania portion) was estimated to be approximately 308 MGD (1.16E+09 lpd), as shown in Table 2.4-47. Of this amount, 44.2 MGD (1.67E+08 lpd), or 14.4 percent, was obtained from ground water. The four largest users of ground water, in order from largest to smallest users, were public supplies, mineral extraction and processing, domestic supply, and industrial supply. Since 1970, underground mining of coal in the northern and eastern-middle anthracite coal basins has virtually ceased, so the extraction of ground water by the mineral industry sector has declined drastically since 1970.

In 1995, the USGS estimated use of ground water in the North Branch Susquehanna River Basin (Pennsylvania portion) was approximately 32 to 50 MGD (1.2E+08 to 1.9E+08 lpd)(Figure 2.4-71), or nearly the same as the estimated ground water use in 1970. In the smaller portion of the watershed containing the BBNPP (i.e., Middle Susquehanna Basin), ground water use was approximately 21 to 30 MGD (0.79E+08 to 1.14E+08 lpd)(Figure 2.4-71).

2.4.12.2.4 Luzerne and Columbia Counties Ground Water Use

The Pennsylvania Department of Conservation and Natural Resources (DCNR) maintains a state Ground Water Information System (PaGWIS). This database has been consolidated from numerous sources, including the USGS and the PGS. PaGWIS is designed around a comprehensive modification of the USGS's Ground Water Site Inventory (GWSI) national database, which is part of its WATSTORE system, a national database developed to manage water data. The PaGWIS database contains information on 44,411 wells and 1,538 springs from the GWSI database and is current through July 1998 (DCNR, 2008a).

PaGWIS also contains information regarding 165,827 wells (123,351 of which have latitude and longitude values) from the PGS' Water Well Inventory (WWI), which Pennsylvania uses to manage data supplied to them by water well drillers (DCNR, 2008a). Data submission began in 1966 using paper forms. Latitude and longitude values were determined in the office by interpreting both handwritten directions and a hand-drawn map supplied by the drilling companies. Most of the location and data entry work has been done by temporary employees of the agency, so it is of varying reliability (DCNR, 2008a). No data entry has been done since August of 1994 (DCNR, 2008a).

Data on selected public water supply wells, which was provided by the PADEP, Bureau of Water Supply Management, has also been entered into the PaGWIS database. The PaGWIS contains information regarding 9,067 public water supply wells which were not present in either the WWI or the GWSI (DCNR, 2008a). Many of these wells were constructed prior to the inception of the WWI database.

Data extracted from the PaGWIS for a 25-mile (40-km) radius around the BBNPP are listed in the Environmental Report Table 2.3-33. These wells, for which location coordinates are available, are presented in Figure 2.4-72. The area defined by the 25-mile (40-km) radius includes all of Columbia County, most of Luzerne County, and parts of seven other counties. Data extracted from the PaGWIS for a 5-mile (8-km) radius around the BBNPP are listed in Table 2.4-48. The wells, for which location coordinates are available, are presented in Figure 2.4-73. The wells dislayed in Figure 2.4-72 and Figure 2.4-73 are categorized as public, industrial, domestic, commercial, and other uses (Note: these wells include wells that were installed as monitoring wells). The majority of the wells are categorized as domestic wells. Within the 5-mile (8-km) radius (Figure 2.4-73), there are a total of 16 public supply wells (Table 2.4-48). Three of these are located in Columbia County (in Berwick) and 13 are located in Luzerne County.

The PADEP maintains a second database containing information on Pennsylvania ground water wells (PADEP, 2008d). Data entries extracted from the PADEP database for 25-mile (40-km) and 5-mile (8-km) radii are listed in Table 2.4-49 and Table 2.4-50, respectively. The locations of these wells are presented on Figure 2.4-74 and Figure 2.4-75, respectively. This database has fewer entries than the PaGWIS. Most of the wells within the 25-mile (40-km) radius (Figure 2.4-74) and all 13 of the wells present within a 5-mile (8-km) radius (Figure 2.4-75) are categorized as "industrial use" wells.

A third list of well users is maintained by the PADEP, Division of Drinking Water Management, and is referred to as the Drinking Water Reporting System (PADEP, 2008b). The wells listed in this database provide public supply and can be searched by county and size. The wells listed for Columbia and Luzerne counties are presented in Table 2.4-51. The largest water supply system in these two counties using ground water is the Pennsylvania American Water Company-Berwick District, which serves a population of about 16,000 people through approximately 6,300 connections in five municipalities. Raw water is obtained from four wells located at the company's Canal Street pumping station in Berwick. These wells are screened in bedrock, approximately 87 to 180 ft (27 to 55 m) below ground surface on the north bank of the Susquehanna River. The combined potential yield of the four wells is approximately 4.60 MGD (1.74E+07 lpd). The average production rate is 1.74 MGD (6.58E+06 lpd) and the maximum daily production rate is 2.48 MGD (9.39E+06 lpd)(PPL, 2006).

2.4.12.2.5 Susquehanna SES Units 1 and 2 Ground Water Use

The SSES provides potable water for drinking, pump seal cooling, sanitation, and fire protection through its own on-site ground water well system. This system consists of two wells (TW-1 and TW-2) which are located approximately 1,200 ft (366 m) northeast of the reactor building (Figure 2.4-76). Both of these wells are screened in the glacial overburden deposits (sand and gravel) and are approximately 75 ft (23 m) deep (CRA, 2007). The potential production capacitities of TW-1 and TW-2 are approximately 50 and 150 gpm (189 and 568 lpm), respectively (PPL, 1989). TW-2 is the primary well for water supply; TW-1 is the back-up well.

Three additional wells provide water for drinking and/or sanitary use for SSES-owned buildings adjacent to the plant site on an intermittent basis. They are located at the West Building (former Emergency Operations Facility), Energy Information Center (EIC), and Riverlands Recreation Area (Figure 2.4-76). These five wells are screened in the glacial overburden and/or Susquehanna River alluvium. There are other SSES wells, but they are used infrequently or not at all.

2.4.12.2.6 Northeastern Pennsylvania Ground Water Demands

The PADEP, along with the Statewide Water Resources Committees, and six Regional Water Resources Committees, is currently developing a new State Water Plan in response to the Water Resources Planning Act (Act 220 of 2002). This Act calls for the State Water Plan to be prepared by March 2008, and updated every 5 years thereafter (PADEP, 2008c). This State Water Plan replaces the last plan that was developed between 1975 and 1983. When completed, this updated Plan will provide goals and recommendations to attain sustainable water use over a 30-year planning horizon. The Plan includes inventories of water availability, an assessment of current and future water use demands, assessments of resource management alternatives, and proposed methods of implementing recommended actions. One of the actions proposed in the new Plan is to identify and evaluate Critical Water Planning Areas, where the water demand exceeds, or threatens to exceed, water availability.

In June 2005, the SRBC published a "Groundwater Management Plan for the Susquehanna River Basin" (SRBC, 2005). The goals of the SRBC Plan are similar to the Pennsylvania Plan, namely monitor and manage the water resources in order to attain long-term sustainable use of the resource. The SRBC has identified several geographic areas in the Susquehanna River Basin where existing or projected ground water withdrawals and uses are anticipated to exceed long-term sustainability or cause frequent conflicts between users. Areas where demand will exceed sustainable resources are termed Potentially Stressed Areas (PSAs) by the SRBC. Areas where the permeabilities of the rocks are low and the available ground water resource is small are termed Water Challenged Areas (WCAs) (SRBC, 2005). SRBC-defined PSAs and WCAs are shown on Figure 2.4-77. To date, the SRBC has classified eight areas as PSAs and two areas as WCAs. As observed in Figure 2.4-77, there are no PSAs or WCAs located in or near Luzerne or Columbia counties.

The state projections for population trends predicts that Luzerne County will have a 7 percent decrease in population between 2000 and 2030 (PADEP, 2008a). This suggests that the demand for ground water will also decline over the next 20 to 30 years. The abundant supply of ground water and the declining demand for ground water use in Luzerne and Columbia counties means that ground water supplies will not be overdrafted in the two counties, and demand will not surpass available supplies in the future.}

2.4.12.3 Subsurface Pathways

2.4.12.3.1 {Observation Well Data

Water level data measured from ground water observation wells and surface staff gauges installed for the BBNPP site were used to:

- develop ground water potentiometric surface maps,
- determine ground water flow directions (horizontal and vertical) and hydraulic gradients,
- evaluate short-term and seasonal changes in surface water and ground water elevations and gradients,
- identify areas of potential ground water recharge and discharge, and
- calculate flow velocities of ground water.

A total of 41 observation wells with depths extending to 400 ft (120 m) bgs were installed in September and October 2007 (except MW301C, which was installed in May 2008). Observation wells were installed in three different ground water-bearing intervals (Table 2.4-44):

- 14 wells were screened in the Glacial Overburden aquifer at depths of 9.2 to 76.0 ft (2.8 to 23.2 m) bgs ("A" wells),
- 19 wells were screened in shallow shale bedrock 50 to 181 ft (15 to 55 m) bgs ("B" wells, including MW313C, and excluding MW302B and MW307B), and

- 8 wells were screened in the Deep Shale Bedrock aquifer at 170 to 400 ft (52 to 122 m) bgs ("C" wells, excluding MW313C, and including MW302B and MW307B).

The Glacial Overburden aquifer is distinctly different than the shale bedrock aquifer. The shale bedrock aquifer has been divided into "shallow" and "deep" bedrock aquifer, as a means to determine if the hydraulic properties, the hydraulic potentials, or the ground water flow directions are different between the shallow and deeper shale bedrock. In other words, the division of "shallow" versus "deep" provides a means to evaluate ground water flow characteristics in the bedrock in three dimensions, rather than two dimensions. A depth of 175 ft (53 m) bgs has been selected as the division between the "Shallow" and "Deep" Bedrock aquifers.

Monitoring well locations are shown in Figure 2.4-62. A total of 31 monitoring wells were installed at the first 10 drilling locations (MW301-MW310), thereby creating 10 well clusters. Well clusters are a series of wells placed at the same location, with each well monitoring installed in a different water-bearing interval. Each cluster consists of two or more wells. This was done in order to measure vertical differences in hydraulic head, vertical hydraulic gradients, and vertical differences in hydraulic conductivity.

Water level measurements in monitoring well MW311C indicate that the well is very slow to recover after the initial installation and development. The water level measurements from this well indicate that the water level is rising very slowly and do not correspond to other water levels measured in the vicinity. Accordingly, the ground water elevation maps, flow directions, and flow rates presented below do not consider data from this well.

The geotechnical borehole (B301) corresponding to Monitoring Well MW301C was drilled in September 2007, but was left as an open borehole until geophysical testing could be completed. The well (MW301C) was not installed until May 2008. As a result, measurements of water levels in this well became available starting in May 2008.

Between October 2007 and September 2008, water levels in the monitoring wells were measured monthly to characterize seasonal trends in ground water levels, flow directions, and hydraulic gradients for the BBNPP site. In addition, pressure transducers were installed in six monitoring wells and two surface water monitoring stations between April and September 2008 to evaluated short-term fluctuations in water level. The following ground water potentiometric surfaces, hydraulic gradients, and temporal trends are based on these data.

2.4.12.3.1.1 Glacial Overburden Aquifer

Surface water and ground water flows from north to south through the notches between the hills located on the south side of Beach Grove Road. Walker Run flows southward through the "western notch" and the unnamed tributary of Walker Run flows through the “eastern notch” (Figure 2.4-68). Ground water elevations measured in the Glacial Overburden aquifer are tabulated in Table 2.4-45. In addition, elevations of four ponds (Table 2.4-46) have been used to map the water table surface in the Glacial Overburden aquifer.

The data exhibit temporal variability in ground water elevations during the observation period (October 2007 to September 2008). Ground water elevations versus time for the ten well clusters are plotted in Figure 2.4-78 through Figure 2.4-84. A seasonal influence during this monitoring period was observed: lower ground water elevation generally occurred in fall (October and November 2007), followed by gradually increasing levels in winter, peak ground water elevations in February and March 2008, and decreasing ground water elevations in April through September 2008.

For the Glacial Overburden monitoring wells, the lowest elevations generally occurred in October 2007 and the highest elevations occurred in February and March 2008. The differences between the annual high and low elevations for each well ranged from 1.67 to 6.31 ft (0.51 to 1.92 m). The greatest annual variations occurred in the MW302 cluster and MW309A. Less than 5 ft (1.5 m) of variation occurred in each of the other Glacial Overburden wells.

The monthly ground water elevation data (Table 2.4-45) and the monthly surface water elevation data for four ponds (Table 2.4-46) were used to develop ground water elevation contour maps for the Glacial Overburden aquifer. These maps are presented for October 2007 (fall), January 2008 (winter), March 2008 (spring), and July 2008 (summer) (Figure 2.4-85 through Figure 2.4-88, respectively).

Ground water levels measured in MW303A are the highest measured anywhere in the Glacial Overburden aquifer. MW303A is located near a surface water and ground water divide in the northern trough of the Glacial Overburden aquifer (Figure 2.4-85 through Figure 2.4-88). Ground water in the glacial overburden near this point flows either westward toward Walker Run or flows eastward toward the SSES Spray Pond area. Some ground water in the northern trough along with surface water in the unnamed tributary flows southward through the eastern bedrock notch and enters the southern trough.

In the southern trough (where the BBNPP power block is located), ground water in the glacial overburden is flowing from east to west and then southwest (Figure 2.4-85 through Figure 2.4-88). In October 2007 (month of lowest ground water levels), the highest ground water level in the southern trough (668.74 ft (203.83 m) msl) was measured in well MW304A. The lowest water level (653.86 ft (199.30 m) msl) was measured in Pond G8. Thus, a total head loss of nearly 15 ft (4.6 m) occurred across the southern trough in October 2007 (Figure 2.4-85). Between October 2007 and March 2008, the ground water levels in all wells increased approximately 3.4 to 5.5 ft (1.0 to 1.7 m). In March 2008 (month of highest ground water levels), the highest ground water level in the southern trough was again located in MW304A (672.16 ft (204.87 m) msl) and the lowest level was again recorded in Pond G8 (654.30 ft (199.43 m) msl) (Figure 2.4-87). In March 2008, the total head loss across the southern trough (from MW304A to Pond G8) was approximately 18 ft (5.5 m).

A ridge of bedrock separates the southern trough from monitoring wells MW307A and MW309A. Ground water in the Glacial Overburden aquifer in this area belongs to a separate flow system, which flows south and southeast and discharges to Unnamed Tributary 3, a drainage system altogether separate from the Walker Run watershed (Figure 2.4-72 through Figure 2.4-75).

Horizontal hydraulic gradients have been calculated for several flowpaths in the Glacial Overburden aquifer (Table 2.4-52). Flowpath GO1 goes from MW304A to MW302A1; Flowpath GO2 goes from MW302A1 to MW301A, and Flowpath GO3 goes from MW301A to Pond G8. Together, these three flowline segments represent a flowline down the center of the southern trough, from east to west. Segment GO3 represents the horizontal flowline between the center of the power block and Pond G8. The horizontal hydraulic gradients computed for the southern bedrock trough are listed in Table 2.4-52 for fall (October 2007), winter (January 2008), spring (March 2008), and summer (July 2008) conditions. The largest gradients (0.0030 to 0.0112 ft/ft) generally occurred in March 2008 (spring) when the ground water elevations were highest. The gradient between the power block and Pond G8 (Pathline GO3) was lowest in October 2007 (0.0041 ft/ft) and highest in March 2008 (0.0112 ft/ft).

The Glacial Overburden aquifer discharges as springs and seeps into Pond G8, the wetlands along the southern border of the BBNPP site, and into Walker Run. In February 2008, the surface of Ponds G6, G7, and G9 were all frozen with a layer of 2 to 3 in (0.05 to 0.08 m) of ice. However, no ice was present on the surface of Pond G8, indicating that warm ground water was discharging into the pond during winter. In addition, Pond G8 discharges water all year long, even in the extremely dry summer and fall months, which also indicates that ground water discharges in this area. As the southern bedrock trough approaches Pond G8 and surface water gauging stations G2 and G13 on Walker Run (Figure 2.4-63), the trough constricts and the glacial overburden thins considerably. As a consequence, ground water flowing southeastward is forced to the surface in various locations near Pond G8 and the wetlands south and southwest of Pond G8. This area is considered a ground water discharge area for the Glacial Overburden aquifer.

2.4.12.3.1.2 Shallow Bedrock Aquifer

Ground water elevation data for the Shallow Bedrock aquifer are listed in Table 2.4-45. Variation of ground water levels versus time in the Shallow Bedrock aquifer are presented in Figure 2.4-78 through Figure 2.4-84. These graphs show that the seasonal variations in ground water elevations in the shallow bedrock are approximately the same as the magnitude of variation encountered in the Glacial Overburden wells. The rise and fall of ground water elevations in the shallow bedrock also seem to generally coincide in time with variations in water levels in the Glacial Overburden aquifer. The highest ground water elevations in the Shallow Bedrock aquifer were generally present in February and March 2008. The lowest ground water elevations measured in the Shallow Bedrock aquifer generally occurred in October 2007 and September 2008.

The ground water elevation data tabulated in Table 2.4-45 and graphed in Figure 2.4-78 through Figure 2.4-82 were used to develop ground water potentiometric surface maps for the Shallow Bedrock aquifer. These maps are presented for October 2007 (fall), January 2008 (winter), March 2008 (spring), and summer (July 2008) in Figure 2.4-89 through Figure 2.4-92, respectively.

For each quarter, the spatial trends of the potentiometric surface and the horizontal hydraulic gradients are similar, although elevations in March 2008 are greater. Potentiometric contours in the Shallow Bedrock aquifer generally reflect surface topography. For example, the contours circle around the two hills on the northern side of the BBNPP site. Overall, lateral flow in the Shallow Bedrock is to the south and southwest, as shown on Figure 2.4-89 through Figure 2.4-92.

Horizontal hydraulic gradients have been calculated for six flowpath segments in the Shallow Bedrock aquifer (Table 2.4-52). The points defining each flowpath segment are listed in Table 2.4-52. Together, these six flowline segments represent the range of flow directions and gradients that exist beneath the power block and surrounding areas. The horizontal hydraulic gradients computed for the Shallow Bedrock aquifer are listed in Table 2.4-52 for fall (October 2007), winter (January 2008), spring (March 2008), and summer (July 2008) conditions. The largest horizontal gradients (0.0081 to 0.1188 ft/ft) generally occurred in March 2008 (spring) when the ground water elevations were highest. The lowest gradients (0.0079 to 0.0963 ft/ft) generally occurred in January 2008 (Table 2.4-52).

2.4.12.3.1.3 Deep Bedrock Aquifer

Ground water elevation data for the Deep Bedrock aquifer are tabulated in Table 2.4-45. Variation of ground water levels versus time in the Deep Bedrock aquifer are presented in Figure 2.4-78 through Figure 2.4-84. These graphs show that the seasonal variations in ground water elevations in the eight Deep Bedrock wells are usually of the same magnitude of variation encountered in the Shallow Bedrock and the Glacial Overburden wells. A very large seasonal variation in ground water elevations observed in Well MW307B was an exception; water levels rose almost 26 ft (7.9 m) between October 2007 and March 2008. The rise and fall of ground water elevations in the deep bedrock also seem to generally coincide in time with variations in water levels in the other two units. The highest ground water elevations in the Deep Bedrock aquifer were generally present in winter (February and March 2008). The lowest ground water elevations in the Deep Bedrock aquifer were generally present in fall (October 2007 and September 2008).

The ground water elevation data tabulated in Table 2.4-45 and graphed in Figure 2.4-78 through Figure 2.4-82 were used to develop ground water potentiometric surface maps for the Deep Bedrock aquifer. These maps are presented for October 2007 (fall), January 2008 (winter), March 2008 (spring), and July 2008 (summer) in Figure 2.4-93 through Figure 2.4-96, respectively.

For each quarter, the spatial trends of the potentiometric surface and the horizontal hydraulic gradients are similar, although elevations in March 2008 are slightly greater. Potentiometric contours in the Deep Bedrock aquifer generally reflect surface topography. The contours bend somewhat around and encompass the two hills on the northern side of the BBNPP site. The overall flow direction in the Deep Bedrock is to the south, southeast, and probably the southwest, as shown on Figure 2.4-93 through Figure 2.4-96.

Horizontal hydraulic gradients have been calculated for two flowpath segments in the Deep Bedrock aquifer (Table 2.4-52). The points defining each flowpath segment are listed in Table 2.4-52. Together, these two flowline segments represent the range of flow directions and gradients that exist beneath the power block and surrounding areas. The horizontal hydraulic gradients computed for the Deep Bedrock aquifer are listed for fall (October 2007), winter (January 2008), spring (March 2008), and summer (July 2008) conditions. The calculated horizontal gradients in the Deep Bedrock aquifer ranged from 0.0154 to 0.0228 ft/ft, which are considerably lower than the gradients calculated for the Shallow Bedrock, but slightly higher than the gradients determined for the Glacial Overburden aquifer. Unlike the other two hydrogeologic units, the horizontal hydraulic gradients in the Deep Bedrock seem to be largest in the fall when ground water levels were lowest. The lowest gradients (0.0079 to 0.0964 ft/ft) generally occurred in March 2008 (Table 2.4-52).

2.4.12.3.1.4 Vertical Hydraulic Gradients and Vertical Flow Directions

A total of twelve well clusters were installed around the BBNPP site. Each cluster has two or more wells intersecting two or three of the hydrogeologic units. Differences in hydraulic heads between wells screened in different intervals indicate that vertical gradients exist and that vertical flow of ground water (either upward or downward) is likely occurring. Vertical head differences do not necessarily imply that a continuous or discontinuous aquitard separates two aquifer units; it simply means that vertical flow can occur.

For each well cluster, the wells were identified as belonging to the Glacial Overburden (A), Shallow Bedrock (B), or Deep Bedrock (C) aquifers (note: three wells, MW302B, MW307B, and MW313C, have suffixes different than the aquifer in which they are screened, for reasons previously discussed). Vertical gradients have been calculated by taking the difference in hydraulic heads between two wells and divide by the vertical distance between the midpoints of the two well screens. The calculated vertical gradients for four different seasons are listed in Table 2.4-53. The well pairs with positive vertical gradients indicate that the direction of ground water flow is downward; negative gradients indicate an upward direction of ground water flow.

For gradients calculated between the Glacial Overburden and the Shallow Bedrock, upward flow (negative gradient) was detected at 3 out of 8 well clusters (MW301, MW303, and MW310). For gradients calculated between the Glacial Overburden and the Deep Bedrock, upward flow was determined at 3 out of 6 clusters (MW302, MW306, and MW310). Based on these results, upward flow of ground water from the bedrock is apparent in roughly half of the well clusters. The clusters that indicate upward flow include the MW301, MW302, MW303, MW306, and MW310 clusters (Table 2.4-53). The largest gradients for upward flow were found at clusters MW301, MW302, MW303, and MW310. In three of these locations, artesian pressure was encountered in bedrock wells MW301B4, MW302B, MW310C and geotechnical boring B302. Artesian pressure was also detected in monitoring wells MW312B and MW313C, located in the wetlands on the south side of the power block. Figure 2.4-97 displays the areas where upward-flowing ground water from the bedrock may be occurring. Upward-flowing ground water from the bedrock was not visually observed anywhere at the BBNPP site. If upward flow from bedrock is occurring, it will discharge to and dissipate within the Glacial Overburden aquifer. Therefore, the locations of bedrock discharge and the rate of ground water discharge to the Glacial Overburden aquifer is difficult to estimate. As shown in Figure 2.4-97, there are two areas of suspected upward flow from bedrock. The first area lies along Beach Grove Road in the northwest corner of the site, west of well MW305B, and extends to Walker Run. The second area covers a large portion of the southern bedrock trough, including all of the wetlands and the BBNPP power block.

Although vertical gradients suggest that upward groundwater flow is occurring, the exact areas where upward flow takes place, the overall rate of flow, and the temporal changes in flow rate, are not known with any degree of certainty.

2.4.12.3.2 Hydrogeologic Properties

The hydraulic properties of the geologic materials present at the BBNPP site were characterized by several means:

- Fourteen (14) Glacial Overburden wells and 11 bedrock wells were slug tested (falling head and rising head tests). The results are presented in Table 2.4-54.
- Two (2) pumping tests were performed. One test was performed in the glacial overburden at well cluster MW302 and the other was performed in shale bedrock at well cluster MW301 (center of nuclear island). Each test consisted of a 24-hour pumping test and 12-hour recovery test. For the Glacial Overburden test, monitoring wells MW302A2, MW302A3 and MW302A4 were used as observation wells for pumping well MW302A1. For the Bedrock test, monitoring wells MW301B2, MW301B3 and MW301B4 were used

as observation wells for pumping well MW301B1. Prior to each pumping test, a step-drawdown test was conducted in the two pumping wells. Target pumping rates of 60 gpm (227 lpm) and 6 gpm (23 lpm) were selected for wells MW302A1 and MW301B1, respectively, for the extended pumping tests. At these pumping rates, it was expected that pumping would stress the aquifer as much as possible without drawing the water levels in the pumping wells below the tops of their screens. Results of the pumping tests are presented in Table 2.4-55.

- Optical and acoustic televiewers were used to observe and quantify the nature, vertical distribution, and orientation of fractures in five open boreholes before monitoring wells were installed. Results of the televiewer surveys for Monitoring Wells MW301C and MW310C are presented in Figure 2.4-98 to Figure 2.4-103.
- Packer tests were performed on 56 intervals within 5 open-hole bedrock borings, which were later converted into monitoring wells MW301C, MW304C, MW306C, MW310C, and MW313C. Results of the packer tests are presented in Table 2.4-56.

In addition, a large number of slug tests, pumping tests, packer tests, and other tests have been performed previously at the SSES site. The results of these tests are summarized in Table 2.4-57.

2.4.12.3.2.1 Glacial Overburden Aquifer

Slug tests were performed on all 14 BBNPP glacial overburden monitoring wells. The horizontal hydraulic conductivity (Kh) values calculated from these tests ranged from 3.38E-02 ft/day (1.19E-05 cm/s) in MW307A to 9.63E+01 ft/day (3.40E-02 cm/s) in MW306A (Table 2.4-54). Thus, a range of three orders of magnitude was found in these values. The lowest values occurred in the three wells located on the north side of the site (MW303A, MW305A1, and MW305A2) and the three wells located on the far southern end of the site (MW307A, MW308A, and MW309A). In these six wells, the Kh values ranged from 3.38E-02 to 1.51E+01 ft/day (1.19E-05 to 5.33E-03 cm/s). In the other eight glacial overburden wells, located across the central portion of the site (i.e., the southern bedrock trough), the Kh values ranged from 23.8 to 96.3 ft/day (8.40E-03 to 3.40E-02 cm/s). The overall geometric mean of Kh was 10.3 ft/day (3.63E-03 cm/s). The geometric mean Kh for the eight wells located across the central portion of the site was 52.5 ft/day (1.85E-02 cm/s). For two slug tests performed previously at SSES, Kh values of 1.8 and 6.6 ft/day (6.35E-04 to 2.33E-03 cm/s) were determined.

The long-term pumping test performed at the MW302 well cluster yielded a Kh value (geometric mean) of 168 ft/day (5.93E-02 cm/s)(Table 2.4-52). Six pumping tests performed previously at SSES (Table 2.4-57) yielded Kh values that ranged from 3.3 to 200 ft/day (1.16E-03 to 7.06E-02 cm/s). The two SSES pumping tests (Wells C and CPW) that yielded the highest Kh values were based on specific capacity data, and are rough estimates of Kh.

Overall, the MW302 cluster pumping test yielded a Kh value 168 ft/day (5.93E-02 cm/s), which appears to fall within the range of the slug tests, open-end tests performed at SSES, and the other pumping tests performed at the SSES. This value is higher than the average and geometric mean of all other tests; however, it was determined using a long-term test that significantly stressed the aquifer and was performed immediately upgradient of and in close proximity to the BBNPP power block area. Therefore, a Kh value of 168 ft/day (5.93E-02 cm/s) has been chosen to represent the Glacial Overburden aquifer in the vicinity of the BBNPP power block area.

Based on the pumping test conducted in the glacial overburden at the MW302 well cluster, the median specific yield of the aquifer was determined to be approximately 0.322 (Table 2.4-55). For sand and gravel deposits, the specific yield is nearly the same as effective porosity. For the purpose of flow calculations and modeling, an effective porosity for the Glacial Overburden aquifer is estimated to be 0.322.

2.4.12.3.2.2 Shale Bedrock Aquifers

The hydraulic properties of the Shallow and the Deep Bedrock (shale) aquifers are presented in this section, and not separately, because the results of hydraulic testing do not conclusively support the hypothesis that there is a significant difference between the Kh values of the Shallow and Deep Bedrock.

Slug tests were performed on six shallow bedrock wells. The Kh values calculated from these tests ranged from 1.05 ft/day (3.70E-04 cm/s) in MW301B1 to 38.5 ft/day (1.36E-02 cm/s) in MW304B (Table 2.4-54). The overall geometric mean of Kh was 4.01 ft/day (1.41E-03 cm/s). This value is approximately 40 percent of the value determined for the Glacial Overburden aquifer using slug tests.

Slug tests were performed on five Deep Bedrock wells. The Kh values calculated from these tests ranged from 3.25E-02 ft/day (1.15E-05 cm/s) in MW306C to 4.27E+00 ft/day (1.51E-03 cm/s) in MW307B (Table 2.4-54). The overall geometric mean of Kh for the Deep Bedrock was 3.35E-01 ft/day (1.18E-04 cm/s). This value is approximately one order of magnitude less than the value determined for the Shallow Bedrock aquifer using slug tests (Table 2.4-54).

The long-term pumping test performed at the MW301 well cluster yielded a Kh value (geometric mean) of 0.46 ft/day (1.62E-04 cm/s)(Table 2.4-55). This value is roughly two to three orders of magnitude lower than the value determined for the Glacial Overburden aquifer.

A total of 56 packer tests (constant pressure, pump-in tests), were performed in five open bedrock borings at the BBNPP site. Each test was performed on 20 to 23 ft (6.1 to 7 m) rock intervals. Of these tests, nearly half (26) indicated impermeable rock, which is indicated on Table 2.4-56 as Kh = 0 ft/day. In the other 30 tests, Kh values ranged from 6.78E-04 to 4.63E-01 ft/day (2.39E-07 to 1.63E-04 cm/s). The highest values occurred in MW310C and the lower portions of MW301C and MW313C. The Kh values determined by packer tests were considerably lower than Kh values determined by slug tests and pumping tests.

Over 50 packer tests have been performed in the shale bedrock at the SSES site (Table 2.4-57); the tests yielded Kh values that ranged from 0 to 0.85 ft/day (0 to 3.00E-04 cm/s). The median value for the 41 tests performed by the railway bridge (northeast of SSES site) was 0.22 ft/day (7.76E-05 cm/s). The packer test values encountered at the SSES site were greater than the packer test results encountered at the BBNPP site and generally approached the BBNPP values calculated for the MW301B1 pumping test.

Optical and acoustic televiewers were used to observe and quantify the nature, vertical distribution, and orientation of fractures in five open boreholes before monitoring wells were installed. Results of the televiewer surveys for Monitoring Wells MW301C and MW310C are presented in Figure 2.4-98 through Figure 2.4-101. The vertical distribution of fractures in MW301C is shown in Figure 2.4-98. Fractures were more frequently encountered in depth intervals where the slope on the curve is lowest (e.g., from 47 to 58 ft (14.3 to 17.7 m) and 251 to

261 ft (76.5 to 79.6 m) bgs). These two intervals coincide with intervals where packer tests detected measurable fracture permeabilities (see Table 2.4-56). In MW301C, the primary direction of fracture dips was southward and the primary dip angle was steep (60 to 90°), as shown in Figure 2.4-99 and Figure 2.4-100, respectively. A secondary set of fractures had a relatively low dip angle of 20 to 30° (Figure 2.4-100).

Monitoring Well MW310C is located approximately 400 ft (122 m) north-northwest of MW301C. Based on the televiewer results, the density of fractures detected in MW310C (Figure 2.4-101) was much greater than the density of fractures in MW301C. In MW310C, the fractures density was greatest in three different intervals: 24 to 80 ft (7.3 to 24.4 m), 141 to 145 ft (43.0 to 44.2 m), and 195 to 200 ft (59.4 to 61.0 m) bgs (Figure 2.4-101). These three intervals generally coincide with intervals where packer tests detected measurable fracture permeabilities in MW310C (see Table 2.4-56). Unlike MW301C, the primary direction of fracture dips in MW310C was northward and the dip angle was moderately steep (50 to 60°), as shown in Figure 2.4-102 and Figure 2.4-101, respectively. The density and orientation of fractures does not necessarily coincide with zones that have the greatest hydraulic conductivities; sometimes the fractures are healed or cemented shut with calcite. However, there does seem to be a qualitative correlation between fracture density and hydraulic conductivity.

Based on the slug test results from the BBNPP (Table 2.4-54), the Shallow Bedrock wells appear to have much greater Kh values than the Deep Bedrock. However, the packer test results suggest that the Kh values of the Deep Bedrock are greater than determined for the Shallow Bedrock (Table 2.4-56). In general, the hydraulic conductivity of the bedrock appears to be highly variable, as expected for a fractured rock mass.

Overall, the Shallow Bedrock is estimated to have a Kh value of approximately 0.46 ft/day (1.62E-04 cm/s), which is the geometric mean value of the MW301B1 pump test and is two to three orders of magnitude less than the Glacial Overburden aquifer.

Based on the pumping test conducted at the MW301 well cluster, the median storage coefficient value for the shale bedrock is approximately 7.9E-05 (Table 2.4-55).

2.4.12.3.3 Ground Water Flow and Transport

The following sections present the most probable ground water flow direction and travel time from the BBNPP power block area to nearby surface water features. Based on the evaluation summarized in the above sections, {only the shallow water-bearing unit (Glacial Overburden aquifer)} would be affected by construction and operation of the BBNPP. Ground water use associated with BBNPP operations is discussed in Section 2.4.12.1.4. Accidental release parameters and pathways for liquid effluents in ground water and surface water are presented in Section 2.4.13.

The ground water seepage velocity is defined as distance over time and is calculated as follows:

Velocity = ((hydraulic gradient) x (hydraulic conductivity)) / (effective porosity)

The travel time is defined as rate of ground water movement for a set distance and is calculated as follows:

Travel Time = (distance) / (velocity)

2.4.12.3.3.1 Glacial Overburden Aquifer

In the vicinity of the BBNPP site, the Glacial Overburden aquifer is the most capable aquifer for transmitting ground water, and it is the source aquifer for many wells and springs in the county.

The ground water travel time in the Glacial Overburden aquifer was calculated from Monitoring Well MW301A, located near the center of the BBNPP power block area, to a projected discharge point in the relocated Walker Run that is approximately 1200 ft (366 m) southwest of Monitoring Well MW301A. An average horizontal ground water velocity of 4.25 ft/day (1.30 m/day) was calculated using a median horizontal hydraulic gradient of 0.0081 ft/ft measured between Monitoring Well MW301A and Pond G8 (Table 2.4-52), a hydraulic conductivity of 168 ft/day (5.93E-02 cm/s), and an effective porosity of 32 percent (Table 2.4-55). Using a travel distance of approximately 1200 ft (370 m) from Monitoring Well MW301A to a projected discharge point in the relocated Walker Run, the ground water travel time was estimated to be about 282 days. The relocation of Walker Run is discussed in ER Section 4.2.1 and ER Section 4.2.2.}

2.4.12.4 Monitoring or Safeguard Requirements

{Ground water monitoring (water level observation) of the {BBNPP} area is currently being implemented through the use of the ground water monitoring wells installed in September and October 2007. Some of the existing BBNPP monitoring wells will be taken out of service prior to construction activities due to anticipated earth moving and construction requirements. Prior to construction activities, the observation well monitoring network will be evaluated in order to determine ground water data gaps and needs created by the abandonment of any existing wells. These data needs will be met by the installation of new monitoring wells. Additionally, the hydrologic properties and ground water flow regimes of the shallow water-bearing units (Glacial Overburden aquifer, and to a lesser extent, the Shale Bedrock aquifer) will be impacted by the proposed earthmoving, regrading, and construction of infrastructure (buildings, parking lots, etc.). Revisions to the observation well network will be implemented to ensure that the resulting changes in the local ground water regime from construction activities will be identified.

Safeguards will be used to minimize the potential of adverse impacts to the ground water by construction and operation of BBNPP. These safeguards would include the use of lined containment structures around storage tanks (where appropriate), hazardous materials storage areas, emergency cleanup procedures to capture and remove surface contaminants, and other measures deemed necessary to prevent or minimize adverse impacts to the ground water beneath the BBNPP site. No ground water wells are planned for safety-related purposes.}

2.4.12.5 Site Characteristics for Subsurface Hydrostatic Loading and Dewatering

2.4.12.5.1 Dewatering During Construction

{Ground water conditions relative to the foundation stability of safety-related facilities and plans for the analysis of seepage and dewatering plans during construction are discussed in Section 2.5.4.6.

2.4.12.5.2 Hydrostatic Loading and Dewatering During Operation

After construction has been completed, the surface grade for the BBNPP power block will be 674 ft (205.4m) msl, which will require cut and fill across the site area. The minimum design depth for the nuclear island basement is currently estimated to be at an approximate elevation of 633 ft (193 m) msl (Section 2.5.4.10). Water-table elevations within the Glacial Overburden aquifer near the power block area range from approximately 653 to 661 ft (199 to 201 m) msl with the highest observed elevations occurring on the north and northeast sides of the power block area (MW310A). Since the current maximum observed Glacial Overburden aquifer ground water elevation is at 661 ft (201 m) msl in the power block area, the maximum recorded water table elevation lies approximately 28 ft (8.5 m) above the lowest subsurface portions of safety-related structures, systems, and components (i.e., 661 - 633 = 28 ft).

The ESWEMS Pumphouse has a maximum ground water level that is less than 3.3 ft (1.0 m) below grade. This is a departure from U.S. EPR.

The U.S. EPR FSAR requires that maximum ground water elevation be at least 3.3 ft (1.0 m) below surface grade for the nuclear island. As indicated above, existing data indicates that the maximum ground water elevation (661 ft (202 m) msl) is currently 13 ft (4.0 m) below the proposed grade in the nuclear island area (674 ft (205.4 m) msl), which is within the U.S. EPR FSAR design envelope.

The BBNPP cut and fill operations, site grading, and construction activities will alter the existing ground surface, surface drainage within the power block area, several sections of creeks, and surrounding wetland areas. During construction, the Glacial Overburden aquifer will be removed throughout most of the power block area. Also, a permanent ground water barrier will be constructed around the power block area which will limit the flow of ground water into the area. Large areas will have buildings or pavement over the land surface, which will significantly reduce ground water recharge from the surface.

Surface drainage modifications will also affect ground water recharge and ground water elevations in the glacial overburden aquifer. A portion of the wetland areas will be drained and filled in (including the existing Pond G8 located 500 ft (152 m) southwest of the center of the reactor). Drainage conveyance ditches will be installed to quickly move rainfall and surface water away from the power block area. Unnamed Tributary No. 1 will be partially relocated a slight distance to the south,so that it will pass the power block area on the south side. Walker Run will be moved to a new channel along Market Street (County Road T-436), away from the power block area. All of these actions are intended to keep surface water away from the power plant area and to minimize ground water recharge in the area.

Because of changes to the drainage system and changes to the land surface (affecting recharge and runoff), the ground water levels are expected to be lower after construction as compared to the pre-construction ground water elevations. Therefore, the post-construction potentiometric surface in the glacial overburden aquifer will drop relative to pre-construction ground water levels. The post-construction water table surface should be more than 13 ft (4.0 m) below the ground surface. As a result, no permanent ground water dewatering system will be needed for the BBNPP facility.

Ground water elevations will continue to be monitored, and any observed deviations in ground water elevations potentially impacting the current design bases will be accounted for to design a dewatering system, if necessary.}

2.4.12.6 References

{CRA, 2007. Hydrogeologic Investigation Work Plan, Groundwater Protection Initiative, Report prepared for Pennsylvania Power & Light-Susquehanna, LLC, by Conestoga-Rovers & Associates, July 2007.

Crawford, 1999. Part III, Structural Geology and Tectonics, Chapter 16: Piedmont Upland, in C.H. Shultz ed., The Geology of Pennsylvania: Pennsylvania Bureau of Topographic and Geologic Survey Special Publication 1, p 234-241, M.L. Crawford, W.A. Crawford, A.L. Hoersch, and M.E. Wagner, 1999.

Crowl, 1980. Glacial Border Deposits of Late Wisconsinan Age in Northeastern Pennsylvania. Pennsylvania Bureau of Topographic and Geologic Survey, General Geology Report 71, G.H. Crowl and W.D. Sevon, 1980.

DCNR, 2007a. Geologic Map of Pennsylvania, Pennsylvania Department of Conservation and Natural Resources, Website: http://www.dcnr.state.pa.us/topogeo/maps/map7.pdf, Date accessed: December 14, 2007.

DCNR, 2007b. Piedmont Lowland Section Piedmont Province, Pennsylvania Department of Conservation and Natural Resources, Website: http://www.dcnr.state.pa.us/topogeo/map13/13pls.aspx, Date accessed: December 14, 2007.

DCNR, 2008a. Pennsylvania Groundwater Information System (PaGWIS) Documentation, Pennsylvania Department of Conservation and Natural Resources, Website: http://www.dcnr.state.pa.us/topogeo/groundwater/PaGWIS/PaGWISMenu.asp?c=t , Date accessed: May 5, 2008.

Hollowell, 1971. Hydrology of the Pleistocene Sediments in the Wyoming Valley, Luzerne County, Pennsylvania. Pennsylvania Bureau of Topographic and Geologic Survey, Water Resource Report 28, J.R. Hollowell, 1971.

Inners, 1978. Geology and Mineral Resources of the Berwick Quadrangle, Luzerne and Columbia Counties, Pennsylvania. Pennsylvania Bureau of Topographic and Geologic Survey, Atlas 174c, J.D. Inners, 1978.

Lohman, 1937. Ground Water in Northeastern Pennsylvania. Pennsylvania Geological Survey, 4th Series, Bulletin W4, S.W. Lohman, 1937.

PADEP, 2008a. State Water Planning, Population Projections 2000, Pennsylvania Department of Environmental Protection, Website: http://www.dep.state.pa.us/dep/deputate/watermgt/wc/Act220/2000population_projections.htm , Date accessed: March 7, 2008.

PADEP, 2008b. Survey Information. Water Supply Data for Luzerne and Columbia Counties, Pennsylvania Department of Environmental Protection, Website: http://www.drinkingwater.state.pa.us/dwrs/HTM/DEP_frm.html, Date accessed March 20, 2008.

PADEP, 2008c. Pennsylvania State Water Plan, A Vision for Pennsylvania's Future, Pennsylvania Department of Environmental Protection, March 21, 2008.

PADEP, 2008d. Ground Water Withdrawal. Pennsylvania Department of Environmental Protection, Website: http://www.pasda.psu.edu/data/dep/WaterResources2008_04.zip, Date accessed: June 5, 2008.

PPL, 1989. Site Well System (PWS ID 2400994). Pennsylvania Power & Light-Susquehanna, LLC, Pennsylvania Form ER-BCEC-47:11/84 on file with PADEP, Division of Water Supplies, 4 p.

PPL, 2006. Susquehanna Steam Electric Station Units 1 & 2, License Renewal Application, Pennsylvania Power & Light-Susquehanna, LLC.

Root, 1999. Part III, Structural Geology and Tectonics, Chapter 21: Gettysburg-Newark Lowland, in C.H. Shultz ed., The Geology of Pennsylvania: Pennsylvania Bureau of Topographic and Geologic Survey Special Publication 1, p 298-305, S.I. Root and D.B. MacLachlan, 1999.

SRBC, 2005. Groundwater Management Plan for the Susquehanna River Basin. Susquehanna River Basin Commission, Publication No. 236.

Taylor, 1984. Groundwater Resources of the Upper Susquehanna River Basin, Pennsylvania. Pennsylvania Bureau of Topographic and Geologic Survey, Water Resource Report 58, L.E. Taylor, 1984.

Trapp, 1997. Delaware, Maryland, New Jersey, North Carolina, Pennsylvania, Virginia, West Virginia; In, Ground Water Atlas of the United States. U.S. Geological Survey, Hydrologic Investigations Atlas 730-L, H. Trapp and M. Horn.

USEPA, 2008. Sole Source Aquifer Program, U.S. Environmental Protection Agency, Region 3, Water Protection Division, Website: http://epa.gov/safewater/sourcewater/, Date accessed: January 9, 2008.

USGS, 1989. 1:24,000 Topographic Maps: Berwick, Pennsylvania, U.S. Geological Survey, 1989.}

2.4.13 PATHWAYS OF LIQUID EFFLUENTS IN GROUND AND SURFACE WATERS

The U.S. EPR FSAR includes the following COL Item in Section 2.4.13:

A COL Applicant that references the U.S. EPR design certification will provide site-specific information on the ability of the groundwater and surface water environment to delay, disperse, dilute or concentrate accidental radioactive liquid effluent releases, regarding the effects that such releases might have on existing and known future uses of groundwater and surface water resources.

This COL Item is addressed as follows:

Sections 2.4.13.1 through 2.4.13.3 are added as a supplement to the U.S. EPR FSAR.

2.4.13.1 Ground Water

This section provides a conservative analysis of a postulated, accidental liquid release of effluents to the groundwater associated with the operation of {the BBNPP}. The accident scenario is described, and the conceptual model used to evaluate radionuclide transport is presented, along with potential pathways of contamination to water users. The radionuclide concentrations that a water user might be exposed to are compared against the regulatory limits.

2.4.13.1.1 Accident Scenario

This section describes the ability of groundwater and surface water systems to delay, disperse, or dilute a liquid effluent if accidentally released from the site. The U.S. EPR General Arrangement Drawings were reviewed to determine which component in each of the main areas of the nuclear island outside the reactor building could contain the maximum radionuclide concentration/volume. This review also determined that the proposed design includes no buildings, facilities, or tanks containing radionuclides outside of the nuclear island. Components were evaluated based on their respective volumes and whether they could contain reactor coolant activity. Except for the Reactor Building, there is no secondary containment in the nuclear island compartments/buildings. The tanks and components that are designed to contain or process radioactive liquids are within the nuclear island. These components include:

- Reactor Coolant Storage Tanks (total of six, each 4,061 ft^3 (115 m^3)) in the Nuclear Auxiliary Building
- Liquid Waste Storage Tanks (total of five, each approximately 495 ft^3 (14.0 m^3)) in the Waste Building
- Volume Control Tank (350 ft^3 (9.9 m^3)) in the Fuel Building
- LHSI Heat Exchanger (total of four, each 33 ft^3 (0.93 m^3)) in the Safeguards Building

As defined by NUREG-0800, Standard Review Plan 2.4.13 (NRC, 2007a), the source term is determined from a postulated release from a single tank or pipe rupture outside of the containment. The postulated source of the liquid effluent would be a tank rupture in a Reactor Coolant Storage Tank in the Nuclear Auxiliary Building, because these tanks contain the largest volume of reactor coolant water. An instantaneous release from a tank would discharge the contents faster than from a pipe rupture that is connected to the tank and based on the piping configuration discharge more contents to the environment. The piping configuration may cause more contents to be held up in the tank by the nozzle locations and pipe routing than a tank failure. Therefore, modeling a tank failure will result in a more conservative analysis.

The inventory of radionuclides in reactor coolant water, and their analyzed activities in the Reactor Coolant Storage Tanks are shown on Table 2.4-58 (half-life values provided are consistent with values provided in references NRC, 1992 and ICRP, 1983). The reactor coolant activity levels represent the maximum activity levels without radioactive decay based on a 0.25 percent defective fuel rate, as shown on Table 2.4-58. Reactor coolant activity level values used in this evaluation represent the maximum (most conservative) value observed in two reactor coolant analyses. The 0.25 percent defective fuel rate was selected to be consistent with the fuel failure rate prescribed by the U.S. EPR FSAR. This fuel failure rate is two times the failure rate prescribed by Branch Technical Position 11-6 (0.12 percent) (NRC, 2007b) and provides a conservative bounding estimate of the radionuclide inventory and associated activity levels in the postulated release.

2.4.13.1.2 Ground Water Pathway

The groundwater pathway evaluation includes the components of advection, decay, and retardation. The advective component is discussed in Section 2.4.12.3. A radionuclide assumed to be undergoing purely advective transport travels at the same velocity as groundwater. This approach is conservative because advective flow does not account for hydrodynamic dispersion, which would normally dilute radionuclide concentrations in groundwater through the processes of molecular diffusion and mechanical dispersion. For conservatism, the effects of hydrodynamic dispersion were not considered.

Radionuclides in groundwater flow systems are subject to radioactive decay, the rate of which depends on the half-life of the radionuclide. Table 2.4-58 includes the half-lives of the radionuclides of concern.

Retardation considers chemical interactions between dissolved constituents in the groundwater and the aquifer matrix. Contaminants that react with the aquifer matrix are retarded relative to the groundwater velocity. Reactions with the aquifer matrix include cation/anion exchange, complexation, oxidation-reduction reactions, and surface sorption.

2.4.13.1.3 Conceptual Model

This section describes the conceptual model used to evaluate an accidental release of liquid effluent to groundwater, or to surface water via the groundwater pathway. The conceptual model of the site groundwater system is based on information presented in Section 2.4.12. The key elements and assumptions embodied in the conceptual model are described below.

As previously indicated, a Reactor Coolant Storage Tank with a capacity of 4,061 ft^3 (115 m^3) is assumed to be the source of the release. The tank is located within the Nuclear Auxiliary Building, which has a building slab top depth of approximately {41.5 ft (12.65 m) below grade , at an elevation of approximately 632.5 ft (192.8 m) msl}. The Reactor Coolant Storage Tank is postulated to rupture, and 80 percent of its liquid volume (3,248.8 ft^3 (92.0 m^3)) is assumed to be released in accordance with Branch Technical Position 11-6 (NRC, 2007b). Flow from the tank rupture is postulated to flood the building and migrate past the building containment structure and sump collection system and enter the subsurface at the top of the building slab at an elevation of approximately {632.5 ft (192.8 m) msl}. This elevation is approximately {27.5 ft (8.38 m) below the piezometric elevation of the primary water bearing unit of concern (Glacial Overburden aquifer). Thus, a pathway is created that would allow the entire 3,248.8 ft^3 (92.0 m^3) to directly enter the ground water system instantaneously. This assumption is very conservative because it requires the simultaneous failure of the containment systems and sump pumps}.

{The site ground water system potentially impacted consists of the Glacial Overburden aquifer. The unconsolidated sediments comprising the Glacial Overburden aquifer consist primarily of fine-grained to coarse-grained sands, gravel, and boulders. The Glacial Overburden aquifer extends from the current ground surface, at an elevation ranging from approximately 656 to 676 ft msl (200 to 206 m msl), to an elevation ranging from 593 to 656 ft (181 to 200 m) msl at its base. It is absent in some areas of the site just north of the power block where bedrock is exposed at the ground surface. The postulated release point in the Nuclear Auxiliary Building occurs at a depth of approximately 632.5 ft (192.8 m) msl, which places the release within the saturated portion of the Glacial Overburden aquifer.

Transport in the Glacial Overburden aquifer is considered to be the only significant possible pathway in the conceptual release model, because:

- the release occurs in the Glacial Overburden aquifer,
- the Glacial Overburden aquifer is the most permeable geologic aquifer at the site, and
- the potential receptor (Walker Run) intercepts in the Glacial Overburden aquifer.

In most locations downgradient (southwest) of the Nuclear Auxiliary Building, the vertical hydraulic gradients are such that ground water is flowing upward from the bedrock into the Glacial Overburden aquifer. Therefore, any contaminants released in the Glacial Overburden aquifer should migrate laterally toward the stream and should not migrate vertically downward into the bedrock. As a result, the Bedrock aquifer is not considered in the conceptual release scenario.

With the postulated instantaneous release of the contents of the Reactor Coolant Storage Tank, radionuclides would enter the Glacial Overburden aquifer. The water table elevation within the Glacial Overburden aquifer averages approximately 658 ft (201 m) msl in the center of the nuclear island and the aquifer has a saturated thickness of approximately 50 ft (15 m). The ground water flow direction from the Nuclear Auxiliary Building release point is southwest, toward the relocated Walker Run (Figure 2.4-102). The postulated accidental release scenario assumes the release immediately enters the Glacial Overburden aquifer and remains within this unit as it flows to the projected discharge point in the relocated Walker Run, approximately 1,200 ft (366 m) downgradient of the release point. Ground water seepage would enter Walker Run and eventually discharge into the NBSR, approximately 10,410 ft (3,173 m) downstream of BBNPP. There are no users of surface water from Walker Run. The location and identities of users of water from the NBSR are described in Section 2.4.1.2. The travel path considered in this subsection begins at the Nuclear Auxiliary Building and ends at the postulated discharge zone in the relocated Walker Run, approximately 1,200 ft (366 m) southwest of the Nuclear Auxiliary Building.

In the release scenario described above, it is postulated that all contaminated groundwater flows to Walker Run and discharges into the stream. However, it is quite likely that a portion of the contaminated groundwater will not discharge to the stream. Instead, some of this groundwater may continue flowing southwest and southward parallel to the Walker Run streambed.}

2.4.13.1.4 Analysis of Accidental Releases to Ground Water

The analysis of accidental release of liquid effluents to groundwater was accomplished in two steps. The first step was to screen the listing of source term radionuclides in {Table 2.4-58}, assuming only advective transport and radioactive decay. Radioactive decay data were taken from Table E.1 of NUREG/CR-5512, Vol. 1 (NRC, 1992). Radioactive decay data for some of the shorter-lived radionuclides were taken from International Commission on Radiological Protection (ICRP) Publication 38 (ICRP, 1983). This step allows the screening out of radionuclides that decay to activities below a level of concern before reaching the discharge point in {Walker Run}. Those radionuclides that remain above activity levels of concern are evaluated considering the added effect of retardation. This analysis accounts for the parent radionuclides expected to be present in the Reactor Coolant Storage Tank plus progeny radionuclides that would be generated during subsequent groundwater transport. The analysis considered all progeny in the decay chain sequences that are important for dosimetric purposes. ICRP Publication 38 (ICRP, 1983) was used to identify the progeny for which the decay chain sequences can be truncated. For several of the radionuclides expected to be present in the Reactor Coolant Storage Tank, consideration of up to three members of the decay chain was required. The derivation of the equations governing the transport of the parent and progeny radionuclides follows.

One-dimensional radionuclide transport along a groundwater pathway is governed by the advection-dispersion-reaction equation (Javandel, 1984), which is given as:

$$R\frac{\partial C}{\partial t} = D\frac{\partial^2 C}{\partial x^2} - v\frac{\partial C}{\partial x} - \lambda RC \qquad \text{(Eq. 2.4.13-1)}$$

where:

C = radionuclide concentration
R = retardation factor
D = coefficient of longitudinal hydrodynamic dispersion
n = average linear groundwater velocity
λ = radioactive decay constant
t = groundwater travel time
x = travel distance

The retardation factor is determined from (Equation 6 of Javendal, 1984):

$$R = 1 + \frac{\rho_b K_d}{n_e} \qquad \text{(Eq. 2.4.13-2)}$$

where:

p_b = bulk density (g/cm^3)
K_d = distribution coefficient (cm^3/g or mL/g)
n_e = effective porosity (unitless)

The average linear groundwater velocity (v) is determined using Darcy's law:

$$v = -\frac{K}{n_e}\frac{dh}{dx} \qquad \text{(Eq. 2.4.13-3)}$$

where:

K = hydraulic conductivity
dh/dx = hydraulic gradient
n_e = as previously defined

The radioactive decay constant (λ) can be written as:

$$\lambda = \frac{\ln 2}{t_{1/2}} \qquad \text{(Eq. 2.4.13-4)}$$

where:

$t_{1/2}$ = radionuclide half-life

A method of characteristics approach can be used on Equation 2.4.13-1 to determine the material derivative of concentration:

$$\frac{dC}{dt} = \frac{\partial C}{\partial t} + \frac{dx}{dt}\frac{\partial C}{\partial x} \qquad \text{(Eq. 2.4.13-5)}$$

Conservatively neglecting the coefficient of longitudinal hydrodynamic dispersion, the characteristic equations for Equation 2.4.13-1 can be expressed as follows:

$$\frac{dC}{dt} = -\lambda C \qquad \text{(Eq. 2.4.13-6)}$$

$$\frac{dx}{dt} = \frac{v}{R} \qquad \text{(Eq. 2.4.13-7)}$$

The solutions of the system of equations comprising Equations 2.4.13-16 and 2.4.13-7 can be obtained by integration to yield the characteristic curves of Equation 2.4.13-1. For transport of a parent radionuclide, the equations representing the characteristic curves are:

$$C_{P1} = C_{P0}\exp(-\lambda_1 t) \qquad \text{(Eq. 2.4.13-8)}$$

$$t = R_1\frac{L}{v} \qquad \text{(Eq. 2.4.13-9)}$$

where:

C_{P1} = parent radionuclide concentration at time t
C_{P0} = initial bounding parent concentration (Table 2.4-58)
λ_1 = radioactive decay constant for parent from Equation 2.4.13-4
t = travel time from source to receptor
R_1= retardation factor for parent radionuclide
L = flow path length from source to receptor
v = average linear groundwater velocity

Similar relationships exist for progeny radionuclides. For the first progeny in the decay chain, the advection-dispersion-reaction equation is:

$$R_2 \frac{\partial C_2}{\partial x^2} = D\frac{\partial^2 C_2}{\partial x^2} - v\frac{\partial C_2}{\partial x} + d_{12}\lambda_1 R_1 C_1 - \lambda_2 R_2 C_2 \qquad \text{(Eq. 2.4.13-10)}$$

where:

subscript 2 denotes properties/concentration of first progeny
d_{12} = fraction of parent radionuclide transitions that result in production of progeny

The characteristic equations for Equation 2.4.13-10, conservatively neglecting the coefficient of longitudinal hydrodynamic dispersion, can be derived as:

$$\frac{dC_2}{dt} = d_{12}\lambda_1 C_1 - \lambda_2 C_2 \qquad \text{(Eq. 2.4.13-11)}$$

where:

$$\frac{dx}{dt} = \frac{v}{R_2} \qquad \text{(Eq. 2.4.13-12)}$$

$$\lambda_1 = \lambda_1 \frac{R_1}{R_2}$$

Recognizing that Equation 2.4.13-11 is formally similar to Equation B.43 in NUREG/CR-5512 (NRC, 1992), these equations can be integrated to yield:

$$C_2 = K_1 \exp(-\lambda_1 t) + K_2 \exp(-\lambda_2 t) \qquad \text{(Eq. 2.4.13-13)}$$

for which:

$$t = R_2\frac{L}{v} \qquad \text{(Eq. 2.4.13-14)}$$

$$K_1 = \frac{d_{12}\lambda_2 C_{P0}}{\lambda_2 - \lambda'_1}$$

$$K_2 = C_{20} - \frac{d_{12}\lambda_2 C_{P0}}{\lambda_2 - \lambda'_1}$$

The advection-dispersion-reaction equation for the second progeny in the decay chain is:

$$R_3\frac{\partial C_3}{\partial t} = D\frac{\partial^2 C_3}{\partial x^2} - v\frac{\partial C_3}{\partial x} + d_{13}\lambda_1 R_1 C_1 + d_{23}\lambda_2 R_2 C_2 - \lambda_3 R_3 C_3 \qquad \text{(Eq. 2.4.13-15)}$$

where:

subscript 3 denotes properties/concentration of second progeny radionuclide
d_{13} = fraction of parent radionuclide transitions that result in production of second progeny
d_{23} = fraction of first progeny transitions that result in production of second progeny

The characteristic equations for Equation 2.4.13-15, conservatively neglecting the coefficient of longitudinal hydrodynamic dispersion, can be derived as:

$$\frac{dC_3}{dt} = d_{13}\lambda'_1 C + d_{23}\lambda'_2 C_2 - \lambda_3 C_3 \qquad \text{(Eq. 2.4.13-16)}$$

$$\frac{dx}{dt} = \frac{v}{R_3} \qquad \text{(Eq. 2.4.13-17)}$$

where:

$$\lambda'_1 = \lambda_1\frac{R_1}{R_3}$$

$$\lambda'_2 = \lambda_2 \frac{R_2}{R_3}$$

Considering the formal similarity of Equation 2.4.13-16 to Equation B.54 in NUREG/CR-5512 (NRC,1992), Equations 2.4.13-16 and 2.4.13-17 can be integrated to yield:

$$C_3 = K_1 \exp(-\lambda'_1 t) + K_2 \exp(-\lambda'_2 t) + K_3 \exp(-\lambda_3 t) \qquad \text{(Eq. 2.4.13-18)}$$

:

$$t = R_3 \frac{L}{v} \qquad \text{(Eq. 2.4.13-19)}$$

for which:

$$K_1 = \frac{d_{13}\lambda_3 C_{P0}}{\lambda_3 - \lambda'_1} + \frac{d_{23}\lambda'_2 d_{12}\lambda_3 C_{P0}}{(\lambda_3 - \lambda'_1)(\lambda'_2 - \lambda'_1)}$$

$$K_2 = \frac{d_{23}\lambda_3 C_{P0}}{\lambda_3 - \lambda'_2} + \frac{d_{23}\lambda'_2 d_{12}\lambda_3 C_{10}}{(\lambda_3 - \lambda'_2)(\lambda'_2 - \lambda'_1)}$$

$$K_3 = C_{30} - \frac{d_{23}\lambda_3 C_{P0}}{\lambda_3 - \lambda'_1} - \frac{d_{23}\lambda_3 C_{20}}{\lambda_3 - \lambda'_2} + \frac{d_{23}\lambda'_2 d_{12}\lambda_3 C_{10}}{(\lambda_3 - \lambda'_1)(\lambda_3 - \lambda'_2)}$$

To estimate the radionuclide concentrations in groundwater, Equations 2.4.13-8, 2.4.13-13, and 2.4.13-18 were applied as appropriate along the groundwater transport pathway originating at the Nuclear Auxiliary Building at {BBNPP}. The analysis was performed as described below.

2.4.13.1.4.1 Transport Considering Advection and Radioactive Decay Only

{The analysis considered a pathway through the Glacial Overburden aquifer, from the Nuclear Auxiliary Building to the projected discharge point in Walker Run (Figure 2.4-102). A conservative travel time, t, in Equations 2.4.13-8, 2.4.13-13, and 2.4.13-18, was used in this evaluation. The travel time was derived from information presented in Section 2.4.12.3. The calculated travel time, 205 days (0.56 years), represents a conservative (minimum) estimate of travel time using the hydraulic conductivity (168 ft/day (51.2 m/day)) derived from the long-term pumping test performed in the Glacial Overburden aquifer (Table 2.4-55), the largest observed hydraulic gradient (0.0112 ft/ft) in the vicinity of the nuclear island (Table 2.4-52), and a travel distance of 1,200 ft (366 m) between the Nuclear Auxiliary Building and the projected discharge point in Walker Run. The representative travel time presented here differs from the travel time cited in Section 2.4.12.3.3.1 and Section 2.3.1 due to the fact that a larger (more conservative) hydraulic gradient (0.0112 ft/ft) was used for the calculation in this section. The conservative travel time of 205 days is used for all following evaluations.

The equation inputs for calculations are provided in Table 2.4-59 and the results are summarized in Table 2.4-60. The calculated radionuclide activities at the Walker Run discharge point (using the conservative estimate of travel time) were compared with the 10 CFR, Part 20, Appendix B, Table 2, Effluent Concentration Limits (ECLs) (CFR, 2007). The ratio of the ground water activity concentration to the ECL was used as the screening indicator. Ratios that were greater than or equal to 0.01 (greater than or equal to one percent of the ECL) were retained for further evaluation using retardation. Most of the estimated radionuclide concentrations given in Table 2.4-60 are less than one percent of the respective ECLs and are eliminated from further consideration as their concentrations would be well below their regulatory limits. The predicted results indicate that the following radionuclides exceed one percent of the ECL: H-3, Cr-51, Mn-54, Fe-55, Fe-59, Co-58, Co-60, Zn-65, Sr-89, Sr-90, Y-90, Zr-95, Ru-103, Ru-106, Ag-110m, Te-127m, I-129, Te-129m, Te-129, I-131, Cs-134, Cs-136, Cs-137, Ce-141, Ce-144, and Pu-239.}

2.4.13.1.4.2 Transport Considering Advection, Radioactive Decay, and Retardation

The radionuclides of concern identified by the radioactive decay screening analysis described above were further evaluated considering retardation in addition to radioactive decay. Distribution coefficients for these elements were assigned using both literature-based and site-specific, laboratory-derived values.

Site-specific distribution coefficients (K_d) were used for Mn, Fe, Co, Zn, Sr, Ru, Cs, and Ce (Table 2.4-61). These values were based on the laboratory K_d analysis of {5 soil samples obtained from the Glacial Overburden aquifer at the BBNPP site}. ASTM D 4646-03, Standard Test Method for 24-h Batch-Type Measurement of Contaminant Sorption by Soils and Sediments (ASTM, 2003), was used to determine laboratory K_d values using site groundwater. Soil samples were spiked with radioactive (Mn, Co, Zn, Sr, Cs, and Ce) and non-radioactive (Fe and Ru) isotopes for the analytes of concern. Follow on analyses were performed using gamma pulse height analysis for the radioactive isotopes and either inductively-coupled plasma emission spectroscopy (Fe) or inductively-coupled plasma mass spectrometry (Ru) for the non-radioactive isotopes. For each of these analytes, the lowest measured K_d value was used in the transport analysis to ensure conservatism (Table 2.4-61). Distribution coefficients for H and I were taken to be zero, because these elements are not expected to interact with the aquifer matrix based on their chemical characteristics.

Distribution coefficients for Y, Np, and Pu were taken from published values summarized in Attachment C, Table 3.9.1 of NUREG/CR-6697 (NRC, 2000). In the case of Y, no literature data are available from which to estimate a K_d value. Instead, adsorption characteristics for Y were assumed to be similar to that of Sc, as these two elements lie adjacent in the periodic table.

{The predicted activities of the radionuclides considering the combined effects of advection, decay, and retardation using a conservative travel time of 205 days (0.56 years) are summarized on Table 2.4-63. From this evaluation, it is seen that H-3, Sr-90, and Y-90 exceed one percent respective ECLs.}

2.4.13.1.4.3 Transport Considering Advection, Radioactive Decay, Retardation, and Dilution

{No groundwater wells are located between the power block and Walker Run. Walker Run is the most likely receptor of groundwater flow from the power plant. The radionuclides discharging with the ground water to Walker Run would mix with uncontaminated stream water in Walker Run, leading to further reduction of activity levels due to dilution.

The ground water discharge rate itself is a function of the Darcy velocity of ground water and the assumed volume and dimensions of the resulting contaminant slug. In this evaluation, the Darcy velocity was calculated to be 5.84 ft/day (1.78 m/day), using a hydraulic conductivity of 168 ft/day (51.2 m/day) and a maximum measured hydraulic gradient of 0.0112 ft/ft. These values are based on the hydrogeologic characteristics of the Glacial Overburden aquifer that were described previously. The volume of the liquid release has been assumed to be 3,248.8 ft^3 (92.0 m^3), which represents 80 percent of the 4,061 ft^3 (115 m^3) capacity of one Reactor Coolant Storage Tank (Table 2.4-64). Considering the effective porosity of the Glacial Overburden aquifer (0.322), the volume of the saturated material that would be occupied by the release is:

$$V = \frac{V_{release}}{n_e} = \frac{3249}{0.322} = 10{,}090\, ft^3 (286 m^3)$$

The shape of the resulting contaminant slug is assumed to be 10 ft wide, 10 ft tall, and 100.9 ft in length. This results in a plume that is ten times longer than it is wide or tall, which is typical for a plume moving in a highly-permeable porous medium (i.e., a long narrow plume). The cross-sectional area of the contaminant slug normal to the ground water flow direction would be:

A = 10 ft x 10 ft = 100 ft^2 (9.3 m^2)

The total flow through this area, Q_A, from the Glacial Overburden aquifer to Walker Run is the product of the cross-sectional area and the Darcy velocity:

Q_A = 100 ft^2 x 5.84 ft/day = 584 ft^3/day (16.5 m^3/day) =

= 0.0068 ft^3/s (1.92E-04 m^3/s)

This is the flow rate at which a slug of ground water hypothetically contaminated with H-3, Sr-90, Y-90, and I-129 would flow to Walker Run.

The minimum flow rate measured in Walker Run in the projected plume discharge area (gauging station G2) is 3.2 ft^3/s (0.091 m^3/s). The corresponding dilution factor would be equal to Q_A/Q_S:

Q_A/Q_S = (0.0068 ft^3/s) / (3.2 ft^3/s) = 0.0021

This dilution factor is applied to the H-3, Sr-90, Y-90, and I-129 activity levels reported in Table 2.4-61. Table 2.4-63 summarizes the resulting activity levels, which would represent the diluted activity levels in the surface water in Walker Run at the point of ground water discharge from the Glacial Overburden aquifer. Only H-3 and Sr-90 exceed one percent of the ECL at activities of 2.03 x 10^{-3} μCi/cm^3 and 9.22 x 10^{-9} μCi/cm^3, respectively. H-3 is the only radionuclide which exceeds its individual ECL at the discharge point within the controlled site boundary. The ratio of predicted concentration divided by the ECL is 2.03.}

2.4.13.1.5 Compliance with 10 CFR Part 20

{As previously stated, the Glacial Overburden aquifer is considered the most likely ground water pathway to be impacted by an accidental release (tank rupture), and Walker Run is the projected surface water discharge point of the hypothetically contaminated Glacial Overburden aquifer. There are no private or municipal water wells that lie between the site and Walker Run. Walker Run and adjacent wetlands have been shown to be a ground water discharge area. The radionuclide transport analysis presented for the Glacial Overburden aquifer indicates that all radionuclides, except H-3, accidentally released to the ground water are individually below their ECL in Walker Run prior to discharge offsite. Tritium (H-3) is approximately two times its ECL when diluted in Walker Run.

10 CFR Part 20, Appendix B, Table 2 imposes additional requirements when the identity and activities of each radionuclide in a mixture are known. In this case, the sum of the ratios representing the radionuclide activity level present in the mixture divided by the ECL activities otherwise established in Appendix B for the specified radionuclides not in a mixture may not exceed "1" (i.e., "unity"). The sum of fractions approach has been applied to the radionuclide concentrations conservatively estimated above. Results are summarized in Table 2.4-65. The sum of the mixture ratios in Walker Run at the point of admixture is 2.07, which is above unity. Therefore, it is concluded that an accidental liquid release of effluents to ground water might exceed 10 CFR Part 20 limits in Walker Run within the restricted area of the BBNPP site.} The radionuclide mixture ratios used in this analysis represent the minimum calculated value observed for each radionuclide as they are carried through the advection/decay retardation/ dilution screening process. Individual radionuclides are carried through subsequent screening steps if their calculated values exceed one percent of the ECL.

If individual radionuclide concentrations do not exceed one percent of their respective ECLs, the screening process stops and that calculated value is used in the sum of the fractions evaluation. This approach adds an additional level of conservatism since most radionuclides are not carried through the entire screening process.

{Ground water potentially contaminated by an accidental liquid release would discharge at a location approximately 10,410 ft (3,173 m) upstream of the confluence of Walker Run and the NBSR. Prior to reaching the Susquehanna River, the contaminants in Walker Run would be further diluted by small surface water tributaries, and ground water inflow originating from uncontaminated portions of the local ground water flow system downstream of the projected discharge area.

In accordance with Branch Technical Position 11-6, the evaluation should consider the impacts of the postulated tank failure on the nearest potable water supply in an unrestricted area. "Supply" is defined as a well or surface water intake that is used as a water source for direct human consumption or indirectly through animals, crops, or food processing (NRC, 2007b). As stated previously, there are no uses of surface water from Walker Run. The nearest municipal water supply that obtains water from the NBSR has been identified as the city of Danville, which is located approximately 20 miles (32 km) downstream of the Walker Run confluence. The 7-day low-flow value (10-yr recurrence) in the Susquehanna River at Danville is 1,017 cfs (28.8 m^3/s). When Walker Run mixes with the Susquehanna River, it will be significantly diluted. During the low flow conditions stated above (1,017 cfs (28.8 m^3/s)), the calculated dilution factor will be 2.26E-03. This would lower the cumulative ECL ratio (listed in Table 2.4-65) to 0.47 percent at the low flow rate. During normal flow rates in the Susquehanna River, the dilution would be even greater.

The following design measures are provided to prevent the potential release from a rupture of the Reactor Coolant Storage Tank, Liquid Waste Storage Tank, Volume Control Tank, or LHSI Heat Exchanger to the subsurface environment, in accordance with Branch Technical Position 11-6 in NUREG-0800 (NRC, 2007b):

1. The rooms/cubicles that house the Reactor Coolant Storage Tanks, Liquid Waste Storage Tanks, Volume Control Tank, and the LHSI Heat Exchangers are:

    a. Designed to contain the maximum liquid inventory in the event the associated tank or heat exchanger ruptures; and

    b. Lined with stainless steel up to a height equivalent to the tank/heat exchanger capacity;

2. The Reactor Coolant Storage Tank, Liquid Waste Storage Tank, and Volume Control Tank are provided with an overflow connection at least the size of the largest inlet connection; and

3. Sump collection systems are designed to collect any leakage from the steel compartments around the tanks/heat exchangers.

In addition, the following controls are provided to reduce the potential impact from the potential release from a rupture of the Reactor Coolant Storage Tank, Liquid Waste Storage Tank, Volume Control Tank, or LHSI Heat Exchanger to the subsurface environment:

1. Alarmed tank level monitoring systems are provided for the Reactor Coolant Storage Tanks, Liquid Waste Storage Tanks, and Volume Control Tank; and

2. Alarmed sump level monitoring systems.}

2.4.13.2 Surface Water Pathway

2.4.13.2.1 Direct Releases to Surface Waters

{As described in Section 2.4.13.1.1, all BBNPP facility containing radionuclide inventories are located in the nuclear island. For the Nuclear Auxiliary and Waste Buildings, the depth of the top of the basemat is approximately 41.5 ft (12.65 m) below grade. Assuming liquid releases from postulated Reactor Coolant Storage Tank and/or Liquid Waste Storage Tank ruptures would flood the lowest levels of the Nuclear Auxiliary and Waste Buildings, respectively, it is unlikely that a release could reach the ground surface prior to reaching Walker Run.

The concrete floor supporting the Volume Control Tank in the Fuel Building is at grade level (674 ft (205.4 m) msl). However, the room containing this tank is centrally located in the interior of the Fuel Building, and the tank is entirely surrounded by concrete walls. There are no doors providing entry to this room and access is only possible via a ladder through the top of the room. Therefore, a postulated release from the Volume Control Tank will not leave the Fuel Building, reach the ground surface, and impact surface water.

Two heat exchangers in each of the three Safeguards Buildings are located at grade level. One Safeguards Building (Building 2/3) houses its grade level heat exchangers within double wall concrete containment, and has no exterior doors leading into the building at grade level. The remaining Safeguards buildings (Buildings 1 and 4) do not have double wall containment, and grade level exterior entry doors are present. However, these doorways are designed with six inch concrete thresholds and the doors are watertight to a flood depth of 3.3 ft (1.0 m). Therefore, it is unlikely that a release from the grade level Heat Exchangers in the Safeguards Buildings will reach the ground surface and impact surface water.

Because there are no outdoor tanks that could release radioactive effluent, no accident scenario could result in the release of effluent directly to the surface water from outdoor tanks.}

2.4.13.3 References

ASTM, 2003. Standard Test Method for 24-h Batch-Type Measurement of Contaminant Sorption by Soils and Sediments, ASTM D 4646-03, American Society for Testing and Materials, November 2003.

CFR, 2007. Title 10, Code of Federal Regulation, Part 20, Appendix B, Annual Limits on Intake (ALIs) and Derived Air Concentrations (DACs) of Radionuclides for Occupational Exposure; Effluent Concentrations, Concentrations for Release to Sewerage, 2007.

ICRP, 1983. Radionuclide Transformations - Energy and Intensity Emissions, International Commission on Radiation Protection, ICRP Publication 38, 11-13, ICRP 1983, Pergamon Press, 1983.

Javandel, 1984. Groundwater Transport: Handbook of Mathematical Models, Water Resources Monograph 10, American Geophysical Union, I. Javandel, C. Doughty, and C. Tsang, 1984.

NRC, 1992. Residual Radioactive Contamination from Decommissioning, NUREG/CR-5512, Volume 1, Pacific Northwest Laboratory, W. Kennedy and D. Strenge, October, 1992.

NRC, 2000. Development of Probabilistic RESRAD 6.0 and RESRAD-BUILD 3.0 Computer Codes, NUREG/CR-6697, Argonne National Laboratory, C. Yu, D. LePoire, E. Gnanapragasam, J. Arnish, S. Kamboj, B. Biwer, J-J Cheng, A. Zilen, and S. Chen, 2000.

NRC, 2007a. Accidental Releases of Radioactive Liquid Effluents in Ground and Surface Waters, NUREG-0800, Standard Review Plan, Section 2.4.13, Revision 3, Nuclear Regulatory Commission, March 2007.

NRC, 2007b. Postulated Radioactive Releases due to Liquid-Containing Tank Failures, Branch Technical Position 11-6, NUREG-0800, Standard Review Plan, Nuclear Regulatory Commission, March, 2007.

2.4.14 TECHNICAL SPECIFICATION AND EMERGENCY OPERATION REQUIREMENTS

The U.S. EPR FSAR includes the following COL Item in Section 2.4.14:

> A COL applicant that references the U.S. EPR design certification will describe any emergency measures required to implement flood protection in safety-related facilities and to verify that there is an adequate water supply for shutdown purposes.

This COL Item is addressed as follows:

{References to elevation values in this section are based on the National Geodetic Vertical Datum of 1929 (NGVD), unless stated otherwise.}

Sections 2.4.14.1 and 2.4.14.2 are added as a supplement to the U.S. EPR FSAR.

2.4.14.1 Need for Technical Specifications and Emergency Operations Requirements

{The preceding subsections of Section 2.4 provide an in-depth evaluation of the site's hydrologic acceptability for locating BBNPP. The information provided below concludes that there is no need for emergency protective measures designed to minimize the impact of hydrology-related events on safety-related facilities. Therefore, the requirements of 10 CFR 50.36 (CFR, 2007a), 10 CFR Part 50, Appendix A, General Design Criteria 2 (CFR, 2007b), 10 CFR Part 100 (CFR, 2007c), and 10 CFR 52.79 (CFR, 2008) are met with respect to determining the acceptability of the site.}

Sections 2.4.1 through 2.4.11 present a comprehensive discussion of the potential for flooding and low water at the site, including details of each potential cause and the resulting effects. {These evaluations conclude that flooding in the power block area of safety-related structures, systems, and components due to local intense precipitation, or local Probable Maximum Precipitation (PMP), will be prevented by the site drainage features engineered and constructed for that purpose. The BBNPP design plant grade elevation is located above the design basis flood level and the Probable Maximum Flood (PMF) elevation from local streams. The plant grade elevation will be at elevation 674 ft (205.4 m) msl, which is approximately 161 ft (49 m) above the Susquehanna River 100-yr floodplain of approximately 513 ft (156 m) msl (FEMA, 2008). Additionally, there are no major water bodies (e.g., area greater than 10 acres (4.05 hectares)) directly adjacent to or on the BBNPP site. Near the BBNPP site the evaluations indicate a maximum PMF water surface elevation of 670.96 ft (204.51 m) msl for Walker Run. As a result, the plant site is dry with respect to major flooding on Walker Run. Because the BBNPP site is not located near a coastal region and due to the higher elevation of the plant site relative to the Susquehanna River 100-yr floodplain, tsunami and storm surge and seiche flooding considerations are not applicable for this site.

The U.S.EPR FSAR requires that the maximum post-construction ground water elevation to be at least 3.3 ft (1 m) below grade for the nuclear island. Since the final floor elevation of 675.5 ft (206 m) msl and the maximum observed ground water level for the existing conditions is elevation 661 ft (201 m) msl for the saturated glacial deposit, a permanent dewatering system is not needed during operation of BBNPP.

BBNPP is designed such that no actions need be captured in Technical Specifications or Emergency Operating Procedures to protect the facility from flooding or interruption of water supply for shutdown and cooldown purposes.

Additionally, as described in U.S. EPR FSAR Section 9.2.5, the Essential Service Water System (ESWS) cooling tower basins are designed for operation without makeup for 3 days following a design basis accident (DBA), and the ESWEMS makeup pumps are only required for ESWS makeup following those 72 hours post-DBA. Three days of cooling water inventory in the ESWS cooling tower basin is sufficient for shutdown and cooldown, should a potential flooding event require plant shutdown. Operation of the ESWEMS pumps is therefore not required for achieving cold shutdown. The minimum 3 day water inventory in the ESWS cooling tower basin, along with additional details of ESWEMS/ESWS operation, are discussed in U.S. EPR FSAR Section 9.2.5 and Section 9.2.5.

The worst case low water event does not pose a potential of interrupting the supply of cooling water, as discussed in Section 2.4.11. There are no other uses of water drawn from the BBNPP ESWEMS Retention Pond, such as fire water or system charging requirements. There are no other interdependent safety-related water supply systems to the ESWS, such as reservoirs or cooling lakes. There is no potential of blockage to the safety-related ESWS intake due to ice or channel diversions as discussed in Sections 2.4.7 and 2.4.8. Other potential low water conditions are also evaluated and accounted for in the establishment of the design low water level, as discussed Section 2.4.11.

Accordingly, no emergency protective measures are required to minimize the effect of hydrology-related events on safety-related facilities.}

2.4.14.2 References

{CFR, 2007a. Technical Specifications, Title 10, Code of Federal Regulations, Part 50.36, 2007.

CFR, 2007b. General Design Criteria for Nuclear Power Plants, Criteria 2, Design Bases for Protection Against Natural Phenomena, Title 10, Code of Federal Regulations, Part 50, Appendix A, 2007.

CFR, 2007c. Reactor Site Criteria, Title 10, Code of Federal Regulations, Part 100, 2007.

CFR, 2008. Contents of Applications; Technical Information in Final Safety Analysis Report, Title 10, Code of Federal Regulations, Part 52.79 (a)(10(iii), 2008.

FEMA, 2008. Flood Insurance Map, Luzerne County. Website: http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&catalogId=10001&langId=-1, Date accessed: March 27, 2008.}

Table 2.4-1 {Approximate Length and Average Gradient of Creeks Located near BBNPP}

#	River/Creek Name	Subbasin Name	Length ft (m)	Average Slope %
1	Lower Walker Run	SB-A1	10,410.10 (3,173)	1.52%
2	Upper Walker Run	SB-A2	12,723.10 (3,878)	2.30%
3	Unnamed Tributary No.1	SB-A3	11,161 (3,402)	3.06%
Note: Length represents the entire length of each Creek. Slopes were estimated based on upstream and downstream elevations.				

Table 2.4-2 {Annual Peak Streamflow for Wilkes-Barre, PA USGS Station No. 01536500, (1787 through 2006)}

(Page 1 of 3)

Water Year	Date	Gage Height (ft)	Streamflow (cfs)
1787	Oct. 05, 1786	N.A.	189,000
1807	Apr. 1807	N.A.	202,000
1809	Jul. 1809	N.A.	95,200
1833	May 14, 1833	N.A.	176,000
1865	Mar. 18, 1865	33.10	232,000
1891	Jan. 24, 1891	26.80	164,000
1892	Apr. 04, 1892	21.60	112,000
1893	May 05, 1893	22.02	115,000
1894	May 21, 1894	20.00	97,100
1895	Apr. 10, 1895	21.82	113,000
1896	Apr. 01, 1896	24.00	135,000
1897	Oct. 15, 1896	19.00	88,600
1898	Apr. 26, 1898	17.82	78,900
1899	Mar. 06, 1899	18.22	82,100
1900	Mar. 02, 1900	19.70	94,500
1901	Nov. 28, 1900	22.00	115,000
1902	Mar. 02, 1902	31.40	213,000
1903	Mar. 25, 1903	22.40	119,000
1904	Mar. 09, 1904	30.60	204,000
1905	Mar. 26, 1905	23.40	129,000
1906	Apr. 01, 1906	18.10	81,300
1907	Mar. 16, 1907	16.00	65,500
1908	Feb. 17, 1908	23.50	130,000
1909	May 02, 1909	23.00	125,000
1910	Mar. 03, 1910	26.10	157,000
1911	Mar. 29, 1911	19.70	94,500
1912	Apr. 03, 1912	23.20	127,000
1913	Mar. 28, 1913	28.50	184,000
1914	Mar. 29, 1914	28.30	182,000
1915	Feb. 26, 1915	23.30	127,000
1916	Apr. 02, 1916	26.50	160,000
1917	Mar. 28, 1917	17.70	75,700
1918	Mar. 15, 1918	23.00	124,000
1919	May 24, 1919	16.60	66,900
1920	Mar. 13, 1920	26.00	155,000
1921	Mar. 10, 1921	19.00	86,600
1922	Nov. 29, 1921	22.30	117,000
1923	Mar. 05, 1923	19.60	91,800
1924	Apr. 08, 1924	23.50	129,000
1925	Feb. 13, 1925	25.10	145,000
1926	Mar. 26, 1926	19.40	90,100
1927	Nov. 17, 1926	22.70	121,000
1928	Oct. 20, 1927	24.70	141,000
1929	Apr. 22, 1929	26.40	159,000
1930	Mar. 09, 1930	16.70	67,600

Table 2.4-2 {Annual Peak Streamflow for Wilkes-Barre, PA USGS Station No. 01536500, (1787 through 2006)}
(Page 2 of 3)

Water Year	Date	Gage Height (ft)	Streamflow (cfs)
1931	Mar. 30, 1931	17.60	74,700
1932	Apr. 02, 1932	20.50	107,000
1933	Aug. 25, 1933	19.72	99,800
1934	Mar. 06, 1934	18.00	85,500
1935	Jul. 10, 1935	25.39	151,000
1936	Mar. 20, 1936	33.07	232,000
1937	Jan. 23, 1937	17.15	77,300
1938	Sep. 24, 1938	14.70	64,900
1939	Feb. 22, 1939	23.80	137,000
1940	Apr. 01, 1940	31.53	212,000
1941	Apr. 07, 1941	23.50	138,000
1942	Mar. 11, 1942	20.62	111,000
1943	Jan. 01, 1943	29.37	191,000
1944	May 09, 1944	18.50	90,000
1945	Mar. 05, 1945	21.80	119,000
1946	May 29, 1946	32.01	210,000
1947	Apr. 07, 1947	24.88	151,000
1948	Mar. 23, 1948	28.76	193,000
1949	Dec. 31, 1948	17.39	82,700
1950	Mar. 30, 1950	27.04	172,000
1951	Apr. 01, 1951	22.72	128,000
1952	Mar. 13, 1952	22.39	124,000
1953	Dec. 12, 1952	19.43	98,000
1954	May 5, 1954	16.85	78,900
1955	Mar. 03, 1955	17.80	85,900
1956	Mar. 09, 1956	28.17	186,000
1957	Apr. 07, 1957	20.48	107,000
1958	Apr. 08, 1958	26.80	170,000
1959	Jan. 23, 1959	21.14	113,000
1960	Apr. 02, 1960	29.60	184,000
1961	Feb. 27, 1961	26.20	163,000
1962	Apr. 02, 1962	22.84	128,000
1963	Mar. 28, 1963	22.26	131,000
1964	Mar. 10, 1964	N.A.	188,000
1965	Feb. 14, 1965	11.10	44,600
1966	Feb. 15, 1966	18.25	93,500
1967	Mar. 29, 1967	17.16	84,800
1968	Mar. 24, 1968	19.19	101,000
1969	Apr. 07, 1969	16.57	80,500
1970	Apr. 04, 1970	20.92	115,000
1971	Mar. 17, 1971	20.28	110,000
1972	Jun. 24, 1972	40.91	345,000
1973	Apr. 06, 1973	18.04	91,800
1974	Dec. 28, 1973	18.24	93,400
1975	Sep. 27, 1975	35.06	228,000

Table 2.4-2 {Annual Peak Streamflow for Wilkes-Barre, PA USGS Station No. 01536500, (1787 through 2006)}

Water Year	Date	Gage Height (ft)	Streamflow (cfs)
1976	Feb. 19, 1976	21.34	118,000
1977	Sep. 26, 1977	21.62	121,000
1978	Jan. 27, 1978	21.08	116,000
1979	Mar. 07, 1979	31.02	192,000
1980	Mar. 23, 1980	19.50	104,000
1981	Feb. 22, 1981	19.57	104,000
1982	Oct. 29, 1981	17.24	86,400
1983	Apr. 16, 1983	23.86	138,000
1984	Dec. 14, 1983	29.76	192,000
1985	Mar. 14, 1985	13.04	55,800
1986	Mar. 16, 1986	27.36	172,000
1987	Apr. 05, 1987	19.22	98,500
1988	May 21, 1988	16.88	82,200
1989	May 12, 1989	21.12	117,000
1990	Feb. 18, 1990	15.75	74,900
1991	Oct. 25, 1990	22.69	134,000
1992	Mar. 28, 1992	18.46	92,000
1993	Apr. 02, 1993	29.87	185,000
1994	Mar. 26, 1994	24.16	148,000
1995	Jan. 22, 1995	15.76	72,100
1996	Jan. 20, 1996	34.45	221,000
1997	Nov. 10, 1996	23.57	128,000
1998	Jan. 09, 1998	24.79	138,000
1999	Jan. 25, 1999	21.59	112,000
2000	Feb. 29, 2000	23.66	129,000
2001	Apr. 11, 2001	19.49	96,800
2002	Mar. 28, 2002	17.02	78,900
2003	Mar. 22, 2003	22.84	122,000
2004	Sep. 19, 2004	34.96	227,000
2005	Apr. 04, 2005	30.88	189,000
2006	Jun. 28, 2006	34.14	218,000
Note: N.A. = Not Available			

Table 2.4-3 {Monthly Streamflow for Wilkes-Barre, PA USGS Station No. 01536500, (1899 through 2006)}

(Page 1 of 4)

Discharge, cubic feet per second													
Year	Monthly Mean in cfs (Calculation Period: 1/ 04/1899 to 9/30/2006)												Average Yearly Discharge
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1899				28,770	8,567	3,378	1,965	1,653	1,140	1,072	7,045	12,680	
1900	18,270	28,220	23,770	26,340	6,583	3,506	2,320	1,635	1,239	1,120	10,850	14,070	11,494
1901	5,532	3,893	32,830	39,250	21,450	15,670	3,065	7,403	4,257	3,570	5,288	25,910	14,010
1902	11,530	7,264	65,710	21,860	4,847	4,968	29,010	10,070	4,917	14,970	8,394	22,930	17,206
1903	13,320	34,970	53,490	23,650	3,388	10,260	7,877	13,070	10,930	27,370	12,570	7,036	18,161
1904	14,090	15,720	52,520	31,290	15,750	11,170	3,636	5,192	4,119	11,250	5,972	7,658	14,864
1905	19,680	5,289	41,070	24,550	5,873	10,750	5,488	5,466	12,650	8,081	5,527	20,020	13,704
1906	15,400	10,690	18,650	37,390	12,100	13,920	6,493	3,662	1,869	5,128	10,070	11,070	12,204
1907	29,450	5,347	24,070	17,920	13,720	4,808	4,367	1,485	5,139	11,100	18,550	30,440	13,866
1908	14,070	21,570	45,190	25,010	25,840	4,471	2,718	1,480	869.3	1,059	1,476	1,357	12,093
1909	14,490	33,760	21,360	27,200	28,210	10,610	2,076	1,451	1,124	1,188	1,206	2,143	12,068
1910	12,730	6,407	51,580	17,050	15,620	10,970	1,946	996.1	1,030	1,117	3,074	2,611	10,428
1911	20,760	7,584	21,620	30,540	5,980	7,086	1,764	1,278	3,637	9,217	8,976	14,310	11,063
1912	6,796	8,097	32,870	46,810	16,450	3,641	1,249	1,817	12,860	9,300	13,080	15,590	14,047
1913	36,070	7,294	40,100	19,960	9,271	4,425	1,359	920.6	1,008	2,992	10,670	5,988	11,671
1914	7,662	14,860	29,750	53,770	26,430	4,183	4,774	5,100	3,800	1,448	1,689	2,130	12,966
1915	25,850	35,260	12,120	13,440	8,379	2,479	26,580	18,630	6,652	10,290	6,982	11,990	14,888
1916	25,390	11,490	18,370	59,300	16,650	22,970	5,886	1,758	2,360	4,871	5,166	6,873	15,090
1917	8,178	4,319	26,620	19,990	13,000	27,230	16,900	14,020	5,403	15,240	13,850	2,499	13,937
1918	1,450	18,650	41,430	27,980	16,850	9,701	3,672	1,480	5,144	9,190	14,180	11,490	13,435
1919	12,130	6,480	20,760	20,690	26,190	4,701	4,576	3,694	1,980	2,577	15,160	9,185	10,677
1920	2,839	2,710	48,990	23,090	9,845	3,896	7,191	7,686	7,497	10,080	13,200	24,170	13,433
1921	8,949	9,669	35,460	16,860	10,450	2,428	3,142	2,557	1,848	2,879	19,960	17,860	11,005
1922	6,303	15,530	32,910	32,310	9,612	24,760	11,890	5,544	4,555	2,056	2,069	2,458	12,500
1923	9,361	6,578	35,250	19,070	15,250	4,580	1,612	1,440	1,887	3,361	4,175	15,860	9,869
1924	19,480	5,369	14,990	40,400	23,830	6,096	3,983	2,554	3,865	16,760	3,658	5,501	12,207
1925	2,912	34,590	22,310	16,390	11,350	3,668	6,191	4,574	5,241	6,519	19,490	16,100	12,445
1926	10,370	14,760	28,820	35,280	8,108	4,088	2,052	5,947	5,990	14,490	30,970	9,160	14,170
1927	11,480	20,860	44,130	16,630	26,190	7,843	2,845	3,210	4,003	24,560	32,130	35,260	19,095
1928	15,090	17,640	21,790	32,330	23,720	23,050	17,160	7,714	2,520	2,090	3,554	7,607	14,522

Table 2.4-3 {Monthly Streamflow for Wilkes-Barre, PA USGS Station No. 01536500, (1899 through 2006)}

(Page 2 of 4)

Year	Discharge, cubic feet per second												
	Monthly Mean in cfs (Calculation Period: 1/ 04/1899 to 9/30/2006)												Average Yearly Discharge
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1929	5,094	5,985	39,710	52,190	29,710	5,257	2,737	1,527	1,284	6,861	9,856	13,970	14,515
1930	21,510	12,780	29,640	18,360	9,824	9,205	3,542	1,105	1,968	1,105	1,089	1,933	9,338
1931	1,386	3,516	20,320	30,170	22,500	7,557	7,231	2,679	1,838	1,248	2,454	10,080	9,248
1932	21,670	20,910	13,790	41,680	16,620	3,803	4,292	2,240	1,116	11,290	23,390	6,096	13,908
1933	8,742	6,148	25,060	33,520	11,260	4,794	2,536	12,160	14,390	6,120	8,315	11,810	12,071
1934	17,540	3,882	20,790	32,410	6,496	4,413	2,050	1,657	7,036	4,734	9,027	13,840	10,323
1935	20,740	7,950	30,980	28,470	17,920	4,142	20,330	4,837	2,348	2,193	22,530	13,280	14,643
1936	8,910	5,233	80,560	26,230	8,509	3,261	1,479	2,132	1,602	3,417	12,630	11,800	13,814
1937	29,760	13,690	12,980	35,000	15,600	8,682	4,684	6,650	5,355	11,910	14,750	13,580	14,387
1938	11,100	21,240	23,240	17,790	7,799	4,326	3,667	4,648	12,470	4,771	7,107	23,010	11,764
1939	8,180	31,060	32,500	27,160	6,113	2,453	1,284	1,225	769.9	1,930	4,473	6,160	10,276
1940	3,523	3,800	16,890	85,900	15,430	8,798	5,736	2,103	4,709	3,159	9,089	15,950	14,591
1941	12,400	6,389	14,030	39,500	5,216	3,904	2,046	2,545	1,059	904.9	2,405	6,802	8,100
1942	6,200	6,554	36,930	20,310	15,050	9,016	4,167	5,583	5,040	12,310	18,120	21,510	13,399
1943	28,000	20,890	36,320	27,250	39,590	12,190	2,910	2,737	1,737	6,640	18,140	5,562	16,831
1944	3,124	6,258	26,340	28,050	20,310	9,326	3,343	1,544	1,882	3,481	5,022	10,100	9,898
1945	10,600	14,070	58,930	17,050	28,990	14,220	8,212	5,731	10,010	17,940	25,280	16,360	18,949
1946	17,750	6,591	33,520	6,918	31,800	21,870	7,571	6,876	3,019	8,004	5,342	4,075	12,778
1947	17,480	11,910	22,990	41,480	36,940	18,130	14,020	7,032	4,295	1,775	6,875	5,935	15,739
1948	3,503	13,100	50,290	32,680	22,200	9,963	5,886	4,287	1,514	1,605	7,474	10,340	13,570
1949	29,220	18,450	15,920	18,500	12,650	3,814	1,671	1,917	3,279	3,651	6,137	13,910	10,760
1950	20,880	11,830	33,230	41,180	14,060	10,620	4,331	4,639	11,120	6,144	18,670	29,980	17,224
1951	22,970	29,250	27,810	32,020	7,077	5,389	7,967	3,039	1,959	1,806	9,802	16,750	13,820
1952	29,560	16,460	32,470	30,100	19,900	6,702	5,783	2,753	2,868	1,681	5,252	20,200	14,477
1953	20,620	18,820	26,870	23,900	21,570	6,924	2,239	1,348	1,143	1,218	3,272	10,020	11,495
1954	7,011	22,010	20,700	23,300	22,120	8,750	2,105	1,133	2,173	1,408	10,730	17,090	11,544
1955	14,140	12,090	42,870	16,500	6,530	3,773	1,409	6,229	2,270	27,750	25,580	9,335	14,040
1956	7,138	14,700	44,380	55,210	17,570	7,812	5,722	2,580	6,346	5,035	7,171	21,930	16,300
1957	13,970	10,900	21,490	36,210	14,820	4,756	3,196	2,186	1,642	1,933	3,910	16,130	10,929
1958	10,880	6,400	27,030	72,870	25,600	11,420	6,419	3,028	4,221	6,490	12,520	8,166	16,254

Table 2.4-3 {Monthly Streamflow for Wilkes-Barre, PA USGS Station No. 01536500, (1899 through 2006)}

(Page 3 of 4)

Year	Discharge, cubic feet per second												
	Monthly Mean in cfs (Calculation Period: 1/ 04/1899 to 9/30/2006)												Average Yearly Discharge
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1959	16,900	14,240	23,870	33,830	9,965	3,041	1,663	1,330	1,735	8,333	24,820	32,810	14,378
1960	18,110	22,090	13,210	57,530	22,600	22,280	5,162	3,425	9,404	3,774	4,878	2,862	15,444
1961	2,044	24,330	32,710	45,110	21,320	11,850	4,647	4,654	2,593	1,449	3,120	5,132	13,247
1962	12,800	5,855	26,660	42,730	9,660	2,519	1,086	1,118	861.7	7,335	11,230	7,981	10,820
1963	6,415	4,752	36,900	24,560	13,120	5,776	2,493	1,674	1,054	816.5	2,444	8,188	9,016
1964	16,260	8,928	55,860	24,200	13,350	2,784	1,452	853.2	636.7	704.7	723.6	2,451	10,684
1965	4,704	15,470	10,250	23,010	10,170	3,688	1,187	1,282	1,634	3,753	6,439	8,566	7,513
1966	7,521	18,240	36,870	16,560	19,580	7,569	1,862	1,260	1,346	1,656	3,552	10,110	10,511
1967	9,553	11,000	24,860	27,530	22,980	6,503	5,145	7,098	3,912	8,988	22,100	18,660	14,027
1968	6,505	13,740	27,100	13,710	18,800	20,470	7,344	2,190	5,413	2,884	22,460	16,070	13,057
1969	10,250	11,090	13,810	29,700	12,250	9,353	4,792	4,988	1,625	1,347	13,830	14,380	10,618
1970	5,874	22,800	17,510	51,580	13,790	4,132	4,021	1,994	2,241	5,925	14,730	11,060	12,971
1971	7,767	19,740	38,400	34,460	18,690	3,699	1,879	3,253	2,307	2,040	3,005	20,400	12,970
1972	16,220	6,116	43,240	38,690	29,620	54,330	14,570	3,648	1,849	2,357	29,280	36,630	23,046
1973	19,470	17,140	26,240	30,490	20,920	10,810	7,681	3,399	3,314	2,356	4,818	32,540	14,932
1974	22,850	18,390	23,190	36,500	14,200	5,423	6,097	2,467	5,865	4,053	11,950	20,440	14,285
1975	20,840	29,320	25,430	18,730	19,580	11,460	3,920	2,762	28,680	25,020	14,030	15,520	17,941
1976	16,160	43,030	30,810	18,630	17,690	12,950	9,978	9,028	4,863	29,510	13,020	9,375	17,920
1977	4,565	9,047	50,960	30,020	13,040	3,763	3,330	3,991	24,940	39,860	27,930	33,670	20,426
1978	33,900	12,740	39,440	39,740	17,690	7,113	2,779	5,043	2,789	4,496	4,799	9,565	15,008
1979	34,360	12,090	53,400	24,870	14,660	6,938	2,444	1,979	3,667	8,481	15,970	14,510	16,114
1980	7,779	3,326	31,090	37,530	11,500	3,701	4,497	1,975	1,152	1,762	4,645	7,363	9,693
1981	2,290	40,790	12,550	11,970	15,020	8,667	3,694	2,535	3,769	14,000	16,970	11,510	11,980
1982	10,240	16,870	32,180	30,600	7,935	20,780	7,588	2,458	1,339	1,267	3,487	8,053	11,900
1983	6,995	18,160	19,070	51,430	31,020	8,614	3,637	1,877	1,171	1,338	5,446	34,770	15,294
1984	5,548	36,800	15,660	50,110	31,200	14,800	10,800	7,481	3,254	1,995	4,493	19,310	16,788
1985	9,432	8,889	21,270	14,260	5,520	3,692	2,828	1,806	4,752	6,413	17,260	17,210	9,444
1986	12,160	18,620	42,820	21,230	10,770	11,930	6,083	8,627	2,581	6,454	21,960	20,430	15,305
1987	8,313	4,682	24,780	35,420	6,451	4,690	5,725	2,001	8,459	5,971	8,365	14,200	10,755
1988	6,334	16,060	19,730	13,220	19,150	4,155	2,357	1,985	3,293	2,888	12,090	5,955	8,935

Table 2.4-3 {Monthly Streamflow for Wilkes-Barre, PA USGS Station No. 01536500, (1899 through 2006)}

(Page 4 of 4)

Discharge, cubic feet per second													
Year	Monthly Mean in cfs (Calculation Period: 1/ 04/1899 to 9/30/2006)												Average Yearly Discharge
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1989	5,107	7,206	13,360	25,890	38,140	24,420	6,988	2,695	3,167	8,989	14,190	5,239	12,949
1990	14,550	37,320	17,650	22,600	21,320	6,815	5,823	3,874	2,957	24,180	22,160	28,540	17,316
1991	20,800	19,540	27,590	21,420	10,990	2,712	1,311	1,346	1,209	1,919	5,246	11,190	10,439
1992	12,460	8,367	24,330	26,780	14,270	10,660	6,203	10,040	7,683	9,541	22,580	15,820	14,061
1993	23,150	5,857	22,170	100,000	12,800	4,445	2,039	1,589	2,166	3,162	16,940	19,600	17,827
1994	6,917	17,430	43,670	61,030	11,450	11,680	9,344	19,560	7,105	5,358	10,760	18,080	18,532
1995	19,380	8,199	20,670	14,180	6,508	4,091	1,841	1,352	1,079	9,809	15,750	10,600	9,455
1996	40,740	19,470	21,020	32,350	36,730	8,321	8,785	4,846	4,778	13,040	29,540	44,610	22,019
1997	12,780	14,640	28,580	20,490	14,800	7,063	2,680	1,809	1,813	1,912	7,600	10,970	10,428
1998	36,890	21,510	41,770	32,420	20,380	13,140	13,990	2,388	1,781	2,354	2,078	2,997	15,975
1999	19,670	18,000	23,070	22,980	6,720	2,137	1,850	977.2	5,629	5,660	6,522	12,500	10,476
2000	14,040	21,930	35,820	42,570	32,330	18,920	6,466	5,308	3,217	5,470	5,309	14,310	17,141
2001	6,057	14,130	20,660	42,310	5,076	9,479	3,451	1,497	3,100	2,123	2,043	9,778	9,975
2002	5,599	20,470	18,500	20,520	31,090	23,330	4,078	1,387	2,146	10,330	15,860	17,870	14,265
2003	16,060	9,674	43,550	31,090	13,520	28,280	10,210	11,860	15,980	17,550	26,180	34,030	21,499
2004	16,350	6,844	33,800	26,890	22,110	9,290	13,870	18,180	37,600	10,400	13,250	30,870	19,955
2005	30,770	18,550	24,500	47,890	7,532	4,134	3,076	1,317	2,284	17,970	20,430	22,730	16,765
2006	35,210	21,190	13,930	13,280	9,054	31,720	23,620	8,361	12,880				
Mean of Monthly Discharge	14,300	14,900	30,100	31,200	16,400	9,490	5,640	4,150	4,700	7,110	11,300	14,400	**13,641**

Table 2.4-4 {Mean Daily Streamflow for Wilkes-Barre, PA USGS Station No. 01536500, (1899 through 2006)}

	Discharge, cubic feet per second											
Day	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
1	15,700	13,300	23,200	40,600	20,400	11,500	8,600	4,510	4,240	6,340	8,680	15,000
2	15,200	12,800	23,600	40,300	19,900	11,300	8,440	4,540	4,330	6,170	8,270	15,300
3	15,200	13,300	22,900	40,800	18,800	11,200	7,740	4,500	4,680	5,780	8,730	15,200
4	15,000	14,000	22,600	40,100	18,100	11,300	7,130	4,360	4,840	5,430	8,910	14,900
5	14,800	13,200	23,700	39,800	17,600	10,700	6,460	4,470	4,430	5,040	8,850	15,000
6	14,700	12,100	24,700	41,200	17,100	10,300	6,080	4,260	4,070	4,900	9,000	14,800
7	15,000	11,300	26,300	41,500	16,900	10,900	6,100	4,360	3,770	5,450	8,720	14,600
8	15,400	10,900	25,700	39,600	17,400	10,400	5,910	4,080	3,390	5,250	8,970	14,700
9	15,500	10,800	26,000	37,700	17,300	9,740	6,970	4,000	3,190	5,480	10,900	14,800
10	15,000	10,300	25,800	35,700	17,200	9,150	7,850	4,210	3,440	6,590	11,700	14,300
11	13,600	11,700	24,600	35,100	18,000	8,590	6,740	4,100	3,390	6,690	11,500	15,100
12	12,800	13,300	26,100	33,000	18,600	8,370	5,690	3,960	3,480	6,180	11,000	15,700
13	12,500	12,900	27,400	31,800	19,300	8,380	5,310	3,970	3,830	5,860	10,300	15,200
14	12,400	12,900	27,800	31,200	19,200	8,480	5,260	3,850	3,880	5,620	10,700	15,800
15	12,500	13,800	29,300	31,200	17,900	9,040	5,000	4,050	3,710	5,820	11,100	17,100
16	12,100	15,500	30,800	31,400	16,500	9,220	4,780	4,080	3,890	6,390	10,700	16,900
17	11,800	15,400	31,500	31,100	15,600	9,140	4,530	3,740	4,120	6,720	12,000	15,400
18	11,200	15,100	32,300	29,300	15,100	9,340	4,290	3,930	5,230	7,030	12,600	14,100
19	11,900	14,700	32,000	27,000	14,700	8,910	4,240	4,810	5,900	7,460	12,800	13,700
20	13,400	14,700	30,300	25,300	14,800	8,120	4,180	4,040	5,310	8,660	12,800	13,000
21	13,800	16,700	30,200	25,200	15,400	8,160	4,330	3,730	4,830	9,230	12,700	12,800
22	14,900	17,500	31,400	25,700	15,800	8,910	4,740	3,890	4,770	8,890	12,200	12,900
23	15,800	18,000	33,100	25,300	15,600	10,700	5,080	4,080	4,830	8,380	12,000	12,700
24	15,900	18,800	33,100	24,000	14,800	11,000	5,270	4,270	4,780	8,490	11,600	12,800
25	16,300	20,300	33,500	24,000	14,800	10,100	5,420	4,630	5,310	8,750	11,600	13,600
26	17,100	21,500	34,300	24,200	14,600	8,310	5,140	4,230	6,550	8,740	12,300	13,400
27	16,800	20,700	36,900	22,500	13,900	7,510	4,610	3,680	7,710	8,770	13,600	13,100
28	15,900	20,400	40,300	21,000	13,600	8,490	4,790	3,900	7,180	8,640	14,600	12,600
29	14,700	17,500	42,400	20,400	14,300	8,730	4,880	3,770	5,910	9,240	15,500	12,500
30	13,700		41,300	20,000	14,100	8,550	4,620	4,330	5,870	9,390	15,400	13,300
31	13,600		40,500		12,400		4,540	4,330		8,910		15,000

Table 2.4-5 {Maximum Daily Streamflow for Wilkes-Barre, PA USGS Station No. 01536500, (1899 through 2006)}

	Discharge, cubic feet per second											
Day	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
1	180,000	68,900	193,000	206,000	97,200	64,100	120,000	47,100	47,600	111,000	66,900	99,100
2	111,000	59,500	206,000	199,000	118,000	76,800	94,000	36,500	38,400	107,000	50,900	70,700
3	103,000	50,500	198,000	181,000	103,000	72,600	59,100	34,500	39,700	70,000	39,000	124,000
4	90,900	77,900	149,000	187,000	77,800	64,200	39,500	27,200	50,200	41,500	60,300	99,000
5	61,900	84,500	112,000	157,000	74,700	54,600	34,500	49,200	44,900	35,100	47,900	113,000
6	54,800	66,100	166,000	170,000	54,700	38,400	28,300	46,300	33,300	29,400	52,500	95,000
7	77,300	48,100	202,000	178,000	59,600	67,400	42,300	55,300	35,000	45,800	42,500	63,600
8	73,600	36,600	150,000	167,000	78,100	65,900	49,900	36,000	27,700	50,300	53,800	83,900
9	123,000	51,600	179,000	141,000	81,200	50,000	99,700	28,600	17,600	40,300	68,400	78,100
10	126,000	38,800	139,000	137,000	66,300	39,000	142,000	51,500	51,600	89,400	123,000	65,200
11	103,000	62,400	187,000	167,000	84,200	35,900	115,000	32,300	56,500	107,000	92,600	71,100
12	85,700	130,000	129,000	174,000	111,000	38,400	56,200	32,800	36,400	106,000	80,500	89,600
13	70,300	138,000	182,000	132,000	120,000	36,900	37,400	25,900	28,700	79,200	61,200	81,100
14	93,200	95,400	150,000	97,500	101,000	36,400	35,300	27,200	33,600	47,100	58,600	157,000
15	132,000	108,000	131,000	89,900	76,300	44,600	35,500	27,400	26,500	44,500	68,700	184,000
16	92,500	179,000	169,000	115,000	64,000	61,600	26,900	31,000	26,600	151,000	61,900	166,000
17	66,900	133,000	136,000	125,000	67,800	55,900	21,400	22,500	43,300	144,000	95,400	122,000
18	48,500	102,000	192,000	123,000	56,200	59,600	22,200	32,700	122,000	109,000	112,000	59,500
19	97,300	115,000	229,000	93,000	57,500	52,000	23,400	95,300	204,000	99,800	84,900	58,300
20	210,000	110,000	221,000	69,600	56,400	35,300	16,500	64,600	125,000	130,000	70,800	50,400
21	193,000	113,000	184,000	98,100	77,200	41,700	39,400	46,800	67,000	120,000	70,500	45,000
22	128,000	129,000	144,000	148,000	68,500	81,200	57,800	38,900	57,900	70,700	61,400	73,700
23	99,400	84,700	180,000	141,000	68,500	272,000	48,100	38,200	57,000	63,500	47,100	75,100
24	82,300	88,400	162,000	94,500	77,800	329,000	45,900	59,500	64,100	69,900	39,900	65,000
25	110,000	144,000	134,000	100,000	70,000	275,000	48,300	90,400	58,200	126,000	42,000	86,100
26	92,300	154,000	139,000	136,000	100,000	128,000	54,700	65,800	126,000	80,400	81,700	69,300
27	101,000	158,000	155,000	115,000	80,000	73,500	37,400	38,000	244,000	79,700	110,000	54,900
28	103,000	123,000	178,000	91,800	149,000	184,000	63,500	37,600	201,000	58,600	102,000	88,300
29	73,100	127,000	179,000	66,100	206,000	179,000	72,100	30,600	80,300	73,700	107,000	79,200
30	54,500		168,000	64,600	138,000	151,000	60,500	90,000	50,000	69,600	96,300	75,200
31	66,100		173,000		87,900		42,300	68,700		78,200		176,000

Table 2.4-6 {Minimum Daily Streamflow for Wilkes-Barre, PA USGS Station No. 01536500, (1899 through 2006)}

	Discharge, cubic feet per second											
Day	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
1	1,090	1,300	2,100	8,050	6,230	2,000	1,330	787	725	681	699	992
2	1,090	1,300	2,200	8,390	5,910	2,000	1,320	836	746	674	664	984
3	1,160	1,280	2,300	7,590	5,340	2,000	1,280	808	706	658	642	992
4	1,110	1,280	2,200	7,140	5,070	1,810	1,280	774	708	729	632	1,140
5	1,060	1,220	2,200	6,750	4,800	1,810	1,280	780	712	722	627	1,190
6	1,060	1,160	2,100	6,470	4,540	1,810	1,210	768	704	722	642	1,220
7	1,160	1,160	2,100	6,780	4,280	1,810	1,150	732	675	720	637	1,240
8	1,160	1,160	2,600	7,660	4,280	1,810	1,110	808	670	720	627	1,230
9	1,060	1,110	2,820	7,600	4,280	2,000	1,090	720	675	699	637	1,090
10	1,060	1,060	2,820	7,380	3,780	2,000	1,070	722	670	693	653	860
11	1,010	1,060	2,600	7,100	3,540	1,810	995	716	637	687	653	1,090
12	1,160	1,110	2,390	6,930	3,540	1,970	983	799	627	675	653	1,060
13	1,390	1,340	2,390	6,280	3,300	1,840	990	842	597	675	653	1,060
14	1,340	1,800	3,270	6,280	3,070	1,840	969	822	588	670	637	1,060
15	1,300	1,530	3,400	6,540	3,070	1,840	924	815	588	664	627	1,060
16	1,290	1,530	3,300	6,540	3,070	1,720	909	801	583	670	632	1,060
17	1,300	1,950	3,300	5,660	2,840	1,790	872	780	578	681	653	1,060
18	1,320	2,100	3,600	5,660	2,840	1,960	1,040	774	569	681	653	1,060
19	1,410	2,200	4,200	7,100	2,620	1,880	1,020	810	552	693	653	1,090
20	1,660	2,100	5,340	6,540	2,620	1,810	986	787	548	716	710	1,220
21	1,530	2,470	4,800	6,000	2,620	1,700	920	794	544	722	681	1,340
22	1,300	2,290	4,800	5,730	2,660	1,670	920	822	544	700	681	1,400
23	1,210	2,200	4,280	5,690	2,620	1,570	928	836	552	700	681	1,090
24	1,220	2,000	4,280	5,470	2,620	1,480	986	836	569	720	704	970
25	1,230	2,000	4,540	5,210	2,200	1,440	942	818	548	722	761	1,490
26	1,310	2,000	4,800	5,210	2,200	1,400	920	785	536	722	913	1,490
27	1,410	2,000	5,070	5,210	2,200	1,350	944	795	532	710	992	1,490
28	1,530	2,000	6,440	5,470	2,200	1,350	878	805	578	704	1,100	1,220
29	1,470	2,200	7,070	5,470	2,000	1,470	843	785	699	704	1,080	1,360
30	1,400		7,450	6,000	2,000	1,400	815	735	684	710	1,040	1,090
31	1,360		7,660		2,000		787	725		710		1,090

Table 2.4-7 {Annual Peak Streamflow for Danville, PA USGS Station No. 01540500, (1865 through 2006)}

(Page 1 of 3)

Water Year	Date	Gage Height (ft)	Streamflow (cfs)
1865	Mar. 18, 1865	28.00	N.A.
1900	Mar. 02, 1900	15.90	105,000
1901	Nov. 28, 1900	18.50	135,000
1902	Mar. 03, 1902	26.90	243,000
1903	Mar. 25, 1903	18.20	132,000
1904	Mar. 27, 1904	19.62	148,000
1905	Mar. 26, 1905	18.62	136,000
1906	Apr. 01, 1906	15.40	99,500
1907	Mar. 17, 1907	13.00	73,400
1908	Feb. 17, 1908	17.40	122,000
1909	May 2, 1909	18.40	134,000
1910	Mar. 03, 1910	21.00	165,000
1911	Mar. 29, 1911	15.20	97,300
1912	Apr. 03, 1912	17.91	129,000
1913	Mar. 28, 1913	23.11	192,000
1914	Mar. 29, 1914	22.60	186,000
1915	Feb. 26, 1915	19.00	141,000
1916	Apr. 02, 1916	21.80	175,000
1917	Mar. 29, 1917	14.80	92,900
1918	Mar. 16, 1918	18.60	139,000
1919	May 24, 1919	13.70	80,800
1920	Mar. 14, 1920	20.90	170,000
1921	Mar. 10, 1921	15.50	101,000
1922	Nov. 30, 1921	18.10	133,000
1923	Mar. 05, 1923	15.80	105,000
1924	Apr. 08, 1924	18.80	142,000
1925	Feb. 13, 1925	20.30	162,000
1926	Mar. 27, 1926	15.50	101,000
1927	Nov. 17, 1926	18.80	142,000
1928	Oct. 21, 1927	19.90	156,000
1929	Apr. 23, 1929	20.35	163,000
1930	Mar. 09, 1930	13.50	78,700
1931	Mar. 30, 1931	14.35	88,500
1932	Apr. 02, 1932	17.05	119,000
1933	Aug. 25, 1933	17.04	119,000
1934	Mar. 06, 1934	14.50	98,600
1935	Jul. 11, 1935	20.00	153,000
1936	Mar. 20, 1936	27.42	250,000
1937	Jan. 23, 1937	15.20	93,400
1938	Oct. 24, 1937	13.80	79,400
1939	Feb. 22, 1939	19.20	139,000
1940	Apr. 02, 1940	25.25	222,000
1941	Apr. 07, 1941	19.45	142,000
1942	Mar. 11, 1942	17.08	116,000
1943	Jan. 01, 1943	24.00	204,000

Table 2.4-7 {Annual Peak Streamflow for Danville, PA USGS Station No. 01540500, (1865 through 2006)}

Water Year	Date	Gage Height (ft)	Streamflow (cfs)
1944	May 9, 1944	15.48	97,600
1945	Mar. 05, 1945	17.55	121,000
1946	May 26, 1946	25.98	234,000
1947	Apr. 07, 1947	19.95	150,000
1948	Mar. 24, 1948	22.63	184,000
1949	Jan. 01, 1949	15.16	89,600
1950	Mar. 30, 1950	21.81	168,000
1951	Dec. 05, 1950	19.02	131,000
1952	Mar. 13, 1952	18.84	127,000
1953	Dec. 13, 1952	16.80	103,000
1954	May 5, 1954	14.71	82,100
1955	Mar. 03, 1955	15.09	85,900
1956	Mar. 09, 1956	22.47	175,000
1957	Apr. 08, 1957	17.78	114,000
1958	Apr. 08, 1958	21.87	169,000
1959	Jan. 24, 1959	17.45	112,000
1960	Apr. 02, 1960	23.92	198,000
1961	Feb. 28, 1961	21.72	167,000
1962	Apr. 02, 1962	19.38	136,000
1963	Mar. 29, 1963	18.89	130,000
1964	Mar. 11, 1964	25.13	261,000
1965	Feb. 14, 1965	N.A	44,900
1966	Feb. 15, 1966	16.26	98,900
1967	Mar. 30, 1967	15.23	87,500
1968	Mar. 24, 1968	16.75	104,000
1969	Apr. 07, 1969	14.67	81,700
1970	Apr. 04, 1970	18.24	122,000
1971	Mar. 17, 1971	17.34	111,000
1972	Jun. 25, 1972	32.16	363,000
1973	Dec. 08, 1972	15.96	99,600
1974	Dec. 29, 1973	16.39	103,000
1975	Sep. 28, 1975	27.52	257,000
1976	Feb. 19, 1976	18.13	120,000
1977	Sep. 27, 1977	18.04	122,000
1978	Mar. 23, 1978	17.98	116,000
1979	Mar. 07, 1979	23.93	188,000
1980	Mar. 23, 1980	16.65	104,000
1981	Feb. 22, 1981	16.95	105,000
1982	Oct. 30, 1981	14.61	83,300
1983	Apr. 17, 1983	20.53	149,000
1984	Apr. 07, 1984	24.14	194,000
1985	Mar. 14, 1985	11.77	55,300
1986	Mar. 16, 1986	22.68	173,000
1987	Apr. 06, 1987	16.74	104,000
1988	May 21, 1988	14.81	83,500

Table 2.4-7 {Annual Peak Streamflow for Danville, PA USGS Station No. 01540500, (1865 through 2006)}

Water Year	Date	Gage Height (ft)	Streamflow (cfs)
1989	May 15, 1989	17.70	116,000
1990	Feb. 18, 1990	13.51	70,900
1991	Oct. 25, 1990	18.51	124,000
1992	Mar. 29, 1992	15.37	89,200
1993	Apr. 03, 1993	23.97	187,000
1994	Mar. 26, 1994	20.15	139,000
1995	Jan. 22, 1995	13.81	73,700
1996	Jan. 21, 1996	25.96	209,000
1997	Dec. 03, 1996	19.06	130,000
1998	Jan. 10, 1998	20.43	143,000
1999	Jan. 25, 1999	17.81	116,000
2000	Feb. 29, 2000	19.24	132,000
2001	Apr. 11, 2001	15.95	97,800
2002	May 15, 2002	14.84	84,700
2003	Mar. 22, 2003	18.81	130,000
2004	Sep. 19, 2004	26.22	220,000
2005	Apr. 04, 2005	24.28	202,000
2006	Jun. 28, 2006	28.19	260,000
Note: N.A. = Not Available			

Table 2.4-8 {Monthly Streamflow for the Danville, PA USGS Station No. 01540500, (1905 through 2006)}

Discharge, cubic feet per second													
Year	Monthly mean in cfs (Calculation Period: 4/01/1905 - 9/30/2006)												Average Yearly Discharge
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1905				26,690	6,975	11,620	6,260	6,885	15,520	10,060	6,878	22,370	
1906	18,760	13,000	22,820	44,750	14,010	18,240	8,100	5,331	3,203	7,000	12,300	13,950	15,122
1907	32,910	5,861	26,290	20,100	15,810	6,923	6,359	2,296	6,974	12,670	22,020	35,290	16,125
1908	16,680	25,740	51,260	27,780	31,220	5,752	3,637	1,960	1,016	1,346	1,935	1,602	14,161
1909	16,220	38,830	23,740	31,820	32,710	11,850	2,798	1,852	1,437	1,545	1,593	2,584	13,915
1910	12,070	7,473	55,380	20,850	17,720	14,050	2,864	1,486	1,566	1,636	4,058	3,169	11,860
1911	23,580	9,125	23,720	34,140	7,699	8,713	2,594	2,343	5,892	12,700	11,550	16,960	13,251
1912	7,800	10,780	38,270	53,280	21,170	5,148	2,088	3,116	15,420	11,570	16,190	19,600	17,036
1913	43,230	9,358	45,020	24,970	12,600	6,498	2,440	1,318	1,540	4,069	11,870	8,030	14,245
1914	8,545	18,160	34,920	64,170	31,080	5,310	6,131	6,258	4,822	2,159	2,400	2,742	15,558
1915	33,090	42,620	14,230	14,970	10,860	4,194	28,490	23,110	8,444	10,920	7,879	13,260	17,672
1916	28,700	13,950	22,340	71,860	18,850	27,360	10,610	3,262	3,701	6,272	6,212	9,144	18,522
1917	16,300	6,172	31,350	23,400	14,130	31,190	19,040	17,000	7,562	17,750	18,310	3,981	17,182
1918	2,347	25,200	49,110	34,650	18,290	12,060	5,111	2,849	6,956	11,030	16,260	12,810	16,389
1919	14,250	7,635	23,630	24,330	31,250	6,039	5,546	4,664	2,473	3,100	17,670	13,300	12,824
1920	4,013	2,841	60,370	26,320	11,050	5,347	8,229	8,514	7,688	11,500	14,870	29,340	15,840
1921	9,878	11,120	42,470	19,140	12,590	3,280	3,948	3,594	2,664	3,542	20,660	22,200	12,924
1922	7,430	18,650	37,800	38,940	11,050	28,690	14,460	5,834	4,916	2,402	2,329	2,821	14,610
1923	10,690	7,754	41,870	21,040	17,200	5,029	2,908	2,134	2,489	4,246	4,884	18,240	11,540
1924	23,650	6,335	16,110	46,590	27,550	7,487	6,139	3,030	4,367	21,010	4,001	6,196	14,372
1925	3,600	42,760	23,410	17,220	13,090	4,436	6,850	5,852	5,555	7,076	21,570	18,530	14,162
1926	11,030	17,380	32,950	37,850	8,879	4,755	2,623	6,863	7,270	16,560	38,540	9,884	16,215
1927	13,620	24,310	49,610	17,990	28,470	9,109	3,675	3,729	4,692	27,320	34,140	41,170	21,486
1928	15,980	19,430	23,570	35,390	26,120	25,300	22,670	8,542	3,481	2,541	3,878	7,904	16,234
1929	5,729	6,196	43,640	57,570	34,080	6,229	3,345	2,015	1,802	7,475	11,290	15,510	16,240
1930	23,530	14,160	32,470	21,570	10,890	10,450	4,406	1,318	2,093	1,186	1,169	2,215	10,455
1931	1,853	4,309	22,200	34,740	25,440	8,604	7,905	3,169	2,181	1,501	2,730	10,830	10,455
1932	23,410	22,480	14,430	45,700	19,010	4,794	4,662	2,627	1,279	12,850	26,930	7,636	15,484
1933	10,230	7,600	29,370	38,910	13,080	5,651	3,423	14,990	18,410	6,982	8,904	12,650	14,183
1934	19,520	4,192	21,120	37,360	7,989	5,057	2,447	1,979	8,769	6,301	11,070	18,820	12,052

Table 2.4-8 {Monthly Streamflow for the Danville, PA USGS Station No. 01540500, (1905 through 2006)}

(Page 2 of 4)

Discharge, cubic feet per second													
Year	Monthly mean in cfs (Calculation Period: 4/01/1905 - 9/30/2006)												Average Yearly Discharge
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1935	22,380	9,110	35,520	33,970	21,640	5,199	22,850	5,455	2,698	2,206	25,460	17,460	16,996
1936	11,610	6,014	91,900	30,280	9,428	4,058	1,738	2,352	1,768	3,523	14,260	14,800	15,978
1937	36,760	17,490	16,090	41,430	19,630	9,863	5,218	7,180	5,984	14,650	17,010	15,760	17,255
1938	13,430	25,760	26,470	20,810	9,120	5,055	5,117	5,448	13,280	5,505	8,292	27,460	13,812
1939	9,322	34,870	36,540	32,930	7,258	2,803	1,605	1,662	911.5	2,139	5,257	7,104	11,867
1940	3,911	4,176	20,620	97,110	18,020	10,990	6,578	2,343	6,115	3,741	10,950	18,200	16,896
1941	14,990	7,337	16,390	43,570	5,643	4,415	2,465	3,132	1,457	1,127	2,712	8,076	9,276
1942	7,613	8,429	41,600	24,080	20,540	10,580	4,605	6,132	4,972	13,660	20,190	23,630	15,503
1943	33,560	22,900	40,340	29,810	44,980	14,600	3,654	2,941	2,011	8,207	23,310	6,597	19,409
1944	3,754	7,272	30,950	32,900	24,280	11,170	4,149	1,845	2,161	3,931	5,461	11,790	11,639
1945	11,520	14,770	66,550	19,050	32,990	15,570	10,140	7,149	12,030	19,910	27,540	18,900	21,343
1946	20,490	7,163	38,140	7,664	37,300	25,600	7,933	7,651	3,090	8,306	5,702	4,394	14,453
1947	18,590	13,560	24,790	43,390	41,620	20,500	18,230	8,488	4,690	1,941	8,676	6,634	17,592
1948	4,121	14,370	54,340	37,420	24,970	10,650	6,838	4,418	1,623	1,734	8,543	11,810	15,070
1949	35,400	21,690	18,290	22,480	15,480	4,502	1,971	2,173	3,479	3,987	6,451	16,140	12,670
1950	24,950	15,360	36,690	45,660	16,260	13,770	4,992	4,979	11,580	6,291	21,130	35,330	19,749
1951	27,270	35,210	31,730	36,270	7,972	6,465	8,685	3,544	2,209	2,206	12,090	19,780	16,119
1952	34,060	19,190	35,650	34,000	23,940	7,858	7,143	3,423	4,159	1,829	7,034	23,580	16,822
1953	23,490	21,100	29,130	26,670	24,500	8,629	2,608	1,589	1,653	1,477	3,817	12,460	13,094
1954	7,151	23,560	24,230	25,310	25,180	9,309	2,410	1,380	2,335	1,642	11,060	17,820	12,616
1955	15,950	13,270	44,810	17,850	7,356	4,393	1,708	8,922	3,071	30,330	29,280	9,984	15,577
1956	7,694	16,860	45,600	56,540	20,630	9,339	7,264	3,276	7,350	6,066	8,861	24,810	17,858
1957	15,940	12,210	23,660	41,090	15,530	5,294	3,321	2,268	1,836	2,209	4,507	18,600	12,205
1958	13,370	7,872	29,950	75,350	28,060	12,570	7,421	3,451	4,858	7,035	13,690	8,810	17,703
1959	18,280	16,340	25,170	36,320	11,630	3,675	2,289	1,514	2,188	9,127	25,600	35,820	15,663
1960	20,550	23,580	12,950	61,820	24,610	23,230	5,934	4,531	12,430	4,796	5,715	3,983	17,011
1961	3,274	25,900	37,090	47,330	23,860	12,710	5,200	5,043	3,096	1,546	3,461	5,740	14,521
1962	13,180	6,175	28,160	46,910	10,470	2,923	1,359	1,675	1,339	8,947	14,020	9,736	12,075
1963	8,029	6,514	43,000	26,730	14,650	6,684	2,889	1,934	1,241	984.3	2,717	9,145	10,376
1964	20,300	10,970	61,210	29,170	14,840	3,420	1,745	1,091	740.3	867.7	852.4	2,786	12,333

Table 2.4-8 {Monthly Streamflow for the Danville, PA USGS Station No. 01540500, (1905 through 2006)}

(Page 3 of 4)

Discharge, cubic feet per second													
Year	Monthly mean in cfs (Calculation Period: 4/01/1905 - 9/30/2006)												Average Yearly Discharge
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1965	5,624	17,150	11,740	24,410	11,850	4,189	1,308	1,625	2,080	4,580	6,735	9,639	8,411
1966	8,595	20,440	39,060	17,930	22,370	8,552	2,165	1,613	1,574	2,083	3,854	11,340	11,631
1967	10,160	12,080	27,270	29,710	25,990	7,602	5,666	8,076	4,438	9,505	23,460	20,470	15,369
1968	7,423	15,990	28,220	15,440	20,160	23,070	8,742	2,452	6,052	3,334	23,610	16,750	14,270
1969	10,890	11,890	14,670	31,140	14,180	10,920	5,906	6,460	1,892	1,787	14,840	15,540	11,676
1970	7,226	26,450	19,530	55,460	15,920	5,449	4,482	2,666	2,633	6,641	16,550	12,700	14,642
1971	9,125	23,530	42,660	35,140	20,990	4,894	2,298	4,425	2,944	2,684	4,070	23,410	14,681
1972	18,110	7,645	46,580	41,550	33,120	62,370	17,240	4,701	2,416	2,947	31,840	42,700	25,935
1973	22,360	20,490	28,310	34,380	23,570	12,670	9,428	4,203	4,500	3,078	5,471	37,380	17,153
1974	26,780	20,990	26,140	40,960	16,070	6,803	7,448	3,229	8,007	4,983	12,400	23,030	16,403
1975	23,040	31,680	28,960	20,670	22,150	13,790	5,816	3,435	30,900	29,060	16,280	15,570	20,113
1976	18,760	46,420	32,500	20,480	19,450	14,540	11,430	10,040	5,698	35,080	15,240	11,090	20,061
1977	5,187	11,250	57,620	34,250	14,000	4,443	4,050	4,237	25,450	43,890	30,970	37,730	22,756
1978	37,030	13,910	44,050	43,570	21,820	8,738	3,502	5,632	3,754	5,335	5,659	11,440	17,037
1979	40,070	15,070	55,340	27,040	17,820	8,873	3,034	2,615	5,315	10,040	17,240	15,760	18,185
1980	8,755	4,010	32,190	40,040	13,140	3,984	4,474	2,226	1,417	1,796	4,388	7,380	10,317
1981	2,729	43,290	13,240	12,120	16,410	9,403	4,523	2,874	3,893	13,080	17,500	12,120	12,599
1982	11,490	18,030	33,400	33,170	8,892	23,790	8,542	3,128	1,816	1,783	4,192	8,903	13,095
1983	8,560	19,620	20,320	56,670	34,060	10,080	4,799	2,358	1,588	1,799	6,226	39,040	17,093
1984	6,461	38,810	18,270	55,060	34,360	18,060	12,910	8,550	3,356	2,417	5,029	22,070	18,779
1985	11,380	10,600	23,500	16,570	7,275	5,319	3,657	2,811	5,619	7,923	19,850	20,260	11,230
1986	12,640	21,340	46,380	24,880	12,940	14,110	6,766	10,080	3,082	7,225	24,780	24,530	17,396
1987	10,160	5,771	28,000	40,150	7,786	5,250	7,155	2,550	13,140	7,070	10,590	16,850	12,873
1988	8,529	18,380	21,940	15,350	23,100	5,380	3,434	2,732	4,601	3,266	14,130	6,839	10,640
1989	6,531	8,508	14,050	28,440	44,090	27,710	8,753	3,365	3,641	11,060	16,660	6,548	14,946
1990	16,500	40,980	20,070	25,260	25,800	8,817	7,579	5,668	4,079	26,710	25,310	32,050	19,902
1991	24,930	22,320	30,730	24,190	13,420	3,435	1,729	1,715	1,480	2,220	6,080	13,280	12,127
1992	13,760	9,441	27,960	30,280	16,710	12,410	7,591	10,980	8,582	10,860	25,470	18,250	16,025
1993	26,550	6,229	21,870	106,900	16,290	4,904	2,365	2,081	2,733	3,898	18,800	24,950	19,798
1994	8,276	20,330	48,400	68,430	14,580	12,630	11,290	21,810	8,567	6,622	12,100	21,680	21,226

Table 2.4-8 {Monthly Streamflow for the Danville, PA USGS Station No. 01540500, (1905 through 2006)}

(Page 4 of 4)

Discharge, cubic feet per second													
Year	Monthly mean in cfs (Calculation Period: 4/01/1905 - 9/30/2006)												Average Yearly Discharge
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1995	22,830	9,418	23,150	16,080	7,515	4,984	2,527	1,937	1,605	10,850	18,460	12,560	10,993
1996	44,410	21,470	25,310	36,640	40,940	9,710	10,710	5,867	5,504	14,980	31,230	49,410	24,682
1997	14,240	15,160	29,850	21,720	16,010	7,591	2,972	2,166	2,306	2,072	7,568	11,440	11,091
1998	39,690	24,400	44,160	36,060	22,520	13,560	14,090	2,745	2,003	2,797	2,327	3,303	17,305
1999	21,190	19,580	24,940	26,100	7,587	2,427	1,961	1,087	6,046	6,697	6,917	14,520	11,588
2000	14,310	21,490	40,550	45,100	32,860	21,720	7,803	7,372	4,247	7,028	5,771	15,200	18,621
2001	6,745	15,660	22,020	46,520	6,408	10,530	4,397	2,154	3,849	2,856	2,552	10,170	11,155
2002	6,552	23,180	20,410	20,610	34,040	23,660	4,578	1,795	2,543	13,030	17,810	20,840	15,754
2003	18,500	12,350	48,140	33,290	14,250	32,960	11,420	13,990	17,460	18,550	28,830	37,990	23,978
2004	19,150	7,373	34,870	27,970	23,720	10,630	13,780	19,720	40,630	12,380	14,500	35,800	21,710
2005	36,310	21,020	26,950	54,720	8,578	4,813	3,675	1,591	2,374	18,200	21,280	25,800	18,776
2006	40,330	24,280	14,620	15,360	10,930	36,060	28,330	8,739	14,520				
Mean of Monthly Discharge	16,500	16,900	32,500	35,000	19,300	11,100	6,590	4,830	5,580	8,000	13,000	16,500	**15,483**

Table 2.4-9 {Mean Daily Streamflow for Danville, PA USGS Station No. 01540500, (1905 through 2006)}

	Discharge, cubic feet per second											
Day	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
1	17,600	14,900	24,000	44,800	23,200	13,400	9,900	5,270	4,540	7,300	10,100	17,700
2	17,900	14,500	23,900	44,700	22,600	13,100	9,740	5,300	4,610	7,320	9,860	17,700
3	18,100	14,600	23,800	44,800	21,700	12,800	9,220	5,180	5,070	6,860	9,800	18,200
4	17,800	15,700	24,100	44,600	20,900	12,900	8,560	5,100	5,580	6,400	10,300	17,900
5	17,000	15,000	25,000	44,100	20,500	13,100	7,830	5,240	5,570	6,140	10,100	17,900
6	16,900	13,800	26,700	45,300	19,700	12,200	7,380	5,120	4,910	5,800	10,200	17,400
7	17,100	12,900	28,300	46,200	19,800	12,600	6,910	4,990	4,790	6,040	10,400	17,300
8	17,800	12,400	28,800	44,500	20,300	12,300	6,670	4,810	4,310	6,370	10,200	17,100
9	18,400	12,000	28,100	41,700	20,300	11,500	6,910	4,580	3,990	6,260	11,800	17,100
10	17,800	11,700	28,300	39,400	20,100	10,700	8,840	4,850	3,950	6,800	13,400	17,100
11	16,400	12,900	27,800	38,100	20,600	9,860	8,400	4,870	4,230	6,840	13,500	17,700
12	15,200	14,800	27,900	36,600	21,700	9,620	7,060	4,800	4,100	6,420	13,000	18,200
13	15,000	14,800	29,100	35,200	22,300	9,710	6,270	4,610	4,590	6,060	12,200	18,000
14	14,700	14,300	30,000	34,600	22,800	9,890	6,270	4,680	4,780	6,190	12,200	18,200
15	14,600	15,400	32,000	35,100	21,600	10,000	6,180	4,530	4,650	6,210	12,900	18,800
16	14,400	17,500	34,000	35,600	20,200	10,700	5,860	4,950	4,540	6,990	13,000	18,100
17	14,000	17,600	34,700	35,400	19,000	10,600	5,600	4,770	5,090	7,590	13,900	17,000
18	13,500	17,500	36,300	33,900	17,900	10,800	5,290	4,550	5,700	7,760	14,400	15,900
19	13,900	17,200	36,100	31,100	17,600	11,100	5,180	5,470	7,020	8,350	14,400	15,500
20	15,100	17,000	34,000	29,100	17,100	9,990	5,090	5,200	6,600	9,450	14,900	15,100
21	15,700	18,500	33,000	28,300	17,300	9,620	4,990	4,610	6,080	10,300	14,800	14,700
22	16,700	19,900	33,700	28,400	18,200	10,700	5,100	4,430	5,810	10,200	14,500	14,800
23	17,400	20,400	35,600	28,300	18,800	12,200	5,540	4,700	5,970	9,660	14,100	14,600
24	17,200	21,000	35,600	27,300	17,800	12,500	5,810	5,020	5,880	9,490	13,600	14,500
25	18,000	22,700	34,900	26,800	17,500	12,100	6,070	5,300	6,160	9,730	13,500	15,200
26	19,000	24,800	35,900	27,400	17,400	10,200	6,060	4,940	7,440	9,820	14,000	15,300
27	19,400	25,200	37,400	26,100	16,700	8,980	5,540	4,400	8,430	10,200	14,400	15,100
28	18,600	24,200	41,300	24,700	16,200	10,100	5,410	4,240	8,710	10,000	15,600	14,600
29	17,100	19,900	45,200	23,700	16,500	10,500	5,840	4,560	7,280	10,100	17,500	14,000
30	15,900		45,700	23,200	16,500	10,300	5,520	4,260	6,930	10,700	17,800	14,700
31	14,900		44,900		14,700		5,230	4,360		10,700		16,200

Table 2.4-10 {Maximum Daily Streamflow for Danville, PA USGS Station No. 01540500, (1905 through 2006)}

	Discharge, cubic feet per second											
Day	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
1	201,000	82,200	124,000	205,000	91,900	76,600	147,000	44,400	40,000	129,000	94,200	93,600
2	161,000	77,600	144,000	219,000	126,000	75,500	117,000	44,800	27,800	126,000	72,500	92,400
3	102,000	54,300	160,000	187,000	116,000	75,800	82,200	31,400	38,400	96,500	52,700	116,000
4	106,000	83,000	154,000	199,000	86,300	84,400	50,600	24,400	47,300	60,800	59,200	120,000
5	74,300	70,600	127,000	188,000	76,900	66,100	44,100	55,000	50,200	41,100	56,000	125,000
6	61,600	59,000	128,000	168,000	64,500	49,200	45,800	58,500	42,200	33,100	50,800	115,000
7	85,000	54,400	182,000	191,000	68,100	72,500	36,900	66,500	39,700	41,200	52,800	82,500
8	81,300	43,900	166,000	160,000	82,800	69,000	35,000	49,900	37,400	57,200	52,900	91,100
9	115,000	43,800	163,000	161,000	95,400	57,700	51,300	35,100	24,400	48,400	62,500	85,400
10	138,000	40,600	158,000	146,000	73,400	46,800	138,000	39,100	26,200	93,600	113,000	77,900
11	117,000	78,700	203,000	140,000	90,900	40,800	134,000	47,600	63,300	106,000	113,000	94,100
12	98,400	147,000	185,000	177,000	98,000	40,800	80,600	43,500	43,200	76,200	85,400	99,900
13	80,300	159,000	186,000	154,000	114,000	45,000	45,800	31,100	35,400	50,900	72,500	98,100
14	73,400	131,000	179,000	110,000	112,000	49,200	41,300	27,800	38,400	37,500	55,400	131,000
15	142,000	93,900	125,000	106,000	99,000	42,500	39,600	30,300	33,800	43,600	73,400	189,000
16	126,000	159,000	170,000	112,000	75,500	54,500	33,000	40,800	31,800	123,000	77,400	154,000
17	85,600	149,000	148,000	144,000	76,700	60,200	25,200	30,800	69,400	164,000	128,000	102,000
18	63,500	114,000	190,000	119,000	76,300	69,300	21,800	27,500	74,600	117,000	134,000	68,600
19	98,000	117,000	241,000	113,000	56,800	82,900	25,300	78,500	205,000	106,000	112,000	57,600
20	155,000	116,000	245,000	85,200	63,700	47,600	25,700	82,100	179,000	131,000	93,000	64,600
21	205,000	107,000	210,000	84,100	73,200	40,800	19,100	56,900	93,500	152,000	73,500	51,000
22	155,000	133,000	157,000	131,000	72,400	91,200	21,800	47,900	61,000	110,000	69,600	84,400
23	103,000	101,000	160,000	158,000	87,900	262,000	24,100	45,800	54,200	72,100	55,800	78,700
24	101,000	89,400	181,000	121,000	98,000	328,000	38,800	53,000	67,800	69,500	51,000	69,600
25	100,000	112,000	135,000	92,300	82,800	335,000	39,200	114,000	62,400	116,000	46,100	88,400
26	110,000	154,000	138,000	119,000	105,000	188,000	50,100	88,500	112,000	99,300	80,700	85,100
27	91,600	166,000	118,000	135,000	90,800	96,300	26,600	53,600	217,000	82,500	114,000	64,200
28	112,000	152,000	187,000	109,000	131,000	206,000	30,900	34,600	236,000	70,400	94,800	90,200
29	90,900	127,000	216,000	82,600	226,000	234,000	76,500	47,200	124,000	59,000	105,000	97,400
30	67,300		212,000	75,600	200,000	180,000	66,500	26,000	65,300	76,800	124,000	78,800
31	61,400		162,000		105,000		50,500	40,000		109,000		175,000

Table 2.4-11 {Minimum Daily Streamflow for Danville, PA USGS Station No. 01540500, (1905 through 2006)}}

	Discharge, cubic feet per second											
Day	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
1	1,300	1,850	2,400	7,730	6,370	3,250	1,760	974	880	980	842	1,310
2	1,300	1,800	2,600	8,630	6,940	3,420	1,720	924	860	916	842	1,220
3	1,500	1,800	3,000	8,810	6,750	3,170	1,660	940	860	931	813	1,240
4	1,500	1,800	3,400	8,460	6,180	3,000	1,600	920	840	978	784	1,400
5	1,280	1,750	4,000	8,010	5,800	2,920	1,560	894	840	978	755	1,450
6	1,430	1,700	3,600	7,660	5,250	3,000	1,480	888	857	886	755	1,420
7	1,700	1,700	3,440	7,570	5,250	2,900	1,420	921	857	857	742	1,500
8	1,920	1,700	3,530	8,100	5,440	2,790	1,380	974	813	842	742	1,420
9	1,850	1,750	3,600	8,540	6,030	2,720	1,280	940	770	857	755	1,250
10	1,800	1,700	3,600	8,440	5,920	2,600	1,230	876	755	842	742	1,100
11	1,810	1,600	4,360	8,130	6,110	2,500	1,270	880	770	799	742	1,350
12	1,850	1,550	4,260	7,730	5,760	2,400	1,210	860	755	813	755	1,300
13	1,550	1,650	4,050	7,530	5,540	2,300	1,250	860	715	813	742	1,300
14	1,600	1,800	3,800	6,970	5,260	2,200	1,190	1,140	674	799	742	1,650
15	1,700	1,900	3,680	6,930	4,820	2,200	1,270	1,090	661	799	742	1,700
16	1,700	2,100	3,680	7,140	4,700	2,100	1,100	1,020	647	799	742	1,600
17	1,750	2,700	3,710	6,750	4,540	2,100	1,040	1,020	634	828	728	1,530
18	1,800	3,200	3,770	6,560	4,470	2,300	1,180	1,000	634	857	728	1,700
19	1,900	3,000	4,190	7,140	4,380	2,400	1,150	1,000	647	891	755	1,500
20	2,100	3,000	5,480	7,340	4,200	2,300	1,170	1,020	634	889	799	1,400
21	1,900	2,900	7,220	6,750	4,000	2,000	1,150	1,020	595	871	813	1,600
22	1,800	2,800	7,350	6,180	3,980	1,900	1,130	993	595	871	828	1,600
23	1,750	2,600	7,150	5,990	3,820	1,800	1,090	1,010	595	871	784	1,430
24	1,700	2,600	6,800	5,990	3,940	1,800	1,090	1,020	558	869	799	1,250
25	1,700	2,600	6,960	5,800	3,790	1,700	1,140	1,040	558	842	842	1,700
26	1,800	2,400	6,720	5,620	3,640	1,700	1,120	993	595	850	1,100	1,700
27	1,950	2,300	6,530	5,620	3,700	1,600	1,060	993	558	839	1,200	1,700
28	2,100	2,300	6,940	5,620	3,610	1,500	1,010	978	595	857	1,180	1,500
29	2,100	2,600	6,790	5,620	3,610	1,600	978	947	770	842	1,150	1,700
30	2,050		6,980	5,800	3,390	1,760	947	947	952	871	1,290	1,500
31	1,900		7,610		3,170		900	900		846		1,300

Table 2.4-12 {Susquehanna River Basin Upstream Dam Information}

(Page 1 of 2)

NAME	TIOGA[2] (PA)	HAMMOND[2] (PA)	STILLWATER[2] (PA)	AYLESWORTH CREEK[2] (PA)	COWANESQUE[2] (PA)	EAST SIDNEY[3] (NY)	WHITNEY POINT[3] (NY)	ALMOND[3] (NY)
OWNER	CENAB	CENAB	CENAB	CENAB	CENAB	CORPS OF ENGINEERS - BALTIMORE DISTRICT	CENAB	CORPS OF ENGINEERS - BALTIMOR E DISTRICT
PURPOSE	FLOOD CONTROL / RECREATION	FLOOD CONTROL / RECREATION	FLOOD CONTROL / WATER SUPPLY	FLOOD CONTROL / RECREATION/ LOW-FLOW AUGMENTATION	FLOOD CONTROL / RECREATION / WATER SUPPLY	FLOOD CONTROL / RECREATION	FLOOD CONTROL / RECREATION	FLOOD CONTROL / RECREATION
STATUS (DATE)	COMPLETE (1980)	COMPLETE (1980)	COMPLETE (1960)	COMPLETE (1971)	COMPLETE (1980)	COMPLETE (1950)	COMPLETE (1942)	COMPLETE (1949)
Stream	Tioga River	Crooked Creek	Lackawanna River	Aylesworth Creek	Cowanesque River	Ouleout Creek	Otselic River	Canacadea Creek
River Mile[1]	350	350	234	-	341	405	331	373
Drainage Area (sq. mi.)	280	122	37.1	6.2	298	103	257	55.8
Structure Type	Earth Fill	Earth Fill	Earth Fill	Earth Fill	Rolled Earth / Rock Fill	Concrete Dam / Rock Fill Dike	Earth Fill	Earth Fill
Dam Crest Length1 (ft)	2,600	3,830	1,700	-	2,930	750 (concrete) 1,140 (earth)	1,300	1,260
Height of Dam[1] (ft)	140	122	77	-	154	130	95	90
Design Freeboard[1] (ft)	5.2	5.3	4.9	-	5.7	6.0	8.7	5.5
Spillway Crest Length[1] (ft)	-	300	264	-	400	240	220	285
Design Discharge[1] (cfs)	-	215,500	37,780	-	224,000	81,000	75,000	54,000
Elevations (ft msl)								
Gate Sill	-	-	-	-	-	1,115.0	950.0	1,229.0
Conservation Pool	-	-	-	786.0	-	-	-	-
Recreation Pool	1,081.0	1,086.0	-	-	1,080.0	-	-	-
Flood Control Pool	1,131.0	1,131.0	1,621.0	-	1,117.0	1,203.0	1,010.0	1,300.0
Maximum Pool	-	-	-	-	-	-	-	-
Top of Dam[1]	1,171.0	1,168.5	-	-	1,154.0	1,228.5	1,039.5	1,320.0
Storage Volumes (Acre-ft)								
Conservation Pool	-	-	-	514,000	-	-	-	-
Recreation Pool	9,500	8,850	-	-	32,600	-	-	-
Flood Control Pool	62,000	63,000	12,000	762,000	89,110	33,606	86,468	14,800
Reservoir Areas (Acres)								
Recreation Pool	-	-	-	-	-	-	-	-
Flood Control Pool	-	-	-	-	-	-	-	-

Table 2.4-12 {Susquehanna River Basin Upstream Dam Information}

(Page 2 of 2)

NAME	TIOGA[2] (PA)	HAMMOND[2] (PA)	STILLWATER[2] (PA)	AYLESWORTH CREEK[2] (PA)	COWANESQUE[2] (PA)	EAST SIDNEY[3] (NY)	WHITNEY POINT[3] (NY)	ALMOND[3] (NY)
OWNER	CENAB	CENAB	CENAB	CENAB	CENAB	CORPS OF ENGINEERS - BALTIMORE DISTRICT	CENAB	CORPS OF ENGINEERS - BALTIMOR E DISTRICT
PURPOSE	FLOOD CONTROL / RECREATION	FLOOD CONTROL / RECREATION	FLOOD CONTROL / WATER SUPPLY	FLOOD CONTROL / RECREATION/ LOW-FLOW AUGMENTATION	FLOOD CONTROL / RECREATION / WATER SUPPLY	FLOOD CONTROL / RECREATION	FLOOD CONTROL / RECREATION	FLOOD CONTROL / RECREATION
STATUS (DATE)	COMPLETE (1980)	COMPLETE (1980)	COMPLETE (1960)	COMPLETE (1971)	COMPLETE (1980)	COMPLETE (1950)	COMPLETE (1942)	COMPLETE (1949)

[1]Dam information obtained from PPL, 1999a.
[2]Dam information obtained from USGS, 2008c through g (with the exception of items marked with 1).
[3]Dam information obtained from USGS, 2002 (with the exception of items marked with 1).
Note: Dam information for Genegantslet Lake, South Side and Plymouth Reservoir Dams is not available.

Table 2.4-13 {Surface Water Users in Luzerne County}

(Page 1 of 2)

ORGANIZATION	SITE_ID	WATER BODY	PRIMARY USE	SITE STATUS
AIRPORT SAND & GRAVEL CO INC	256331	ABRAHAM CREEK DIV	MINERAL USE	ACTIVE
AMER ASPHALT PAVING CO	448323	BROWNS CREEK DIV	MINERAL USE	ACTIVE
APPLEWOOD GC	625899	LEWIS CREEK	COMMERCIAL USE	ACTIVE
BARLETTA BROS	245902	NESCOPECK CREEK	COMMERCIAL USE	ACTIVE
BARLETTA MATERIALS & CONST INC	271224	SUSQUEHANNA RIVER	INDUSTRIAL USE	ACTIVE
BURTAM CORP	491078	POND HOLE 18	COMMERCIAL USE	ACTIVE
CARBON SALES INC	259022	MILL CREEK WITH	MINERAL USE	ACTIVE
CHRISTINE & WILLIAM MISSON	245088	POND A	COMMERCIAL USE	ACTIVE
CHRISTINE & WILLIAM MISSON	245088	POND B	COMMERCIAL USE	ACTIVE
CHRISTINE & WILLIAM MISSON	245088	POND C	COMMERCIAL USE	ACTIVE
CONTINENTIAL ENERGY ASSOC	492489	POND DIV	MINERAL USE	ACTIVE
DIAMOND COAL CO INC	250506	RESERVOIR DIV	MINERAL USE	ACTIVE
DRUE CHAPIN & SONS	662342	INTAKE 1	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	662342	INTAKE 2	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	662342	INTAKE 3	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	672354	INTAKE 1	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	662343	RIVER INTAKE 1	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	662343	RIVER INTAKE 2	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	662343	RIVER INTAKE 3	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	662343	RIVER INTAKE 4	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	662343	RIVER INTAKE 5	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	662343	RIVER INTAKE 6	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	662343	RIVER INTAKE 7	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	672341	INTAKE 1	AGRICULTURAL USE	ACTIVE
FRED W ECKEL SONS	677216	SUSQUEHANNA RIVER INTAKE	AGRICULTURAL USE	ACTIVE
GEN CRUSHED STONE CO	258181	POND WITHDRAWAL	MINERAL USE	ACTIVE
GERALD & LEWIS NAUGLE	261815	PIKES CRK DIV	MINERAL USE	ACTIVE
HUNLOCK SAND & GRAVEL CO	450734	ROARING BROOK	MINERAL USE	ACTIVE
HUNLOCK SAND & GRAVEL CO	450734	POND	MINERAL USE	ACTIVE
HUNTSVILLE GC	446924	MARKET STREET IRRIGATION POND	COMMERCIAL USE	ACTIVE
INDIAN SPRINGS SAWMILL	549919	YEAGER RUN	INDUSTRIAL USE	ACTIVE
JA & WA HESS INC	452784	SUSQUEHANNA RVR	MINERAL USE	ACTIVE

Table 2.4-13 {Surface Water Users in Luzerne County}
(Page 2 of 2)

ORGANIZATION	SITE_ID	WATER BODY	PRIMARY USE	SITE STATUS
JA & WA HESS INC	452784	SUSQUEHANNA WITHDRAWAL	MINERAL USE	ACTIVE
JEAN RUN INC	449143	FARM POND	COMMERCIAL USE	ACTIVE
KAMINSKI BROS INC	442707	POND WITHDRAWAL	MINERAL USE	ACTIVE
KAMINSKI BROS INC	449046	SILT POND	INDUSTRIAL USE	ACTIVE
KELLY INVESTORS INC	445826	RESERVOIR DIV	MINERAL USE	INACTIVE
KEYSTONE COCA COLA BOTTLING CORP	258071	SURFACE WITHDRAW	INDUSTRIAL USE	ACTIVE
NEWBERRY GOLF ESTATE CC	269371	POND	COMMERCIAL USE	ACTIVE
PG ENERGY INC	494082	COAL CREEK	COMMERCIAL USE	ACTIVE
PG ENERGY INC	494082	HARVEYS CREEK	COMMERCIAL USE	ACTIVE
PG ENERGY INC	494082	CAMPBELLS LEDGE	COMMERCIAL USE	ACTIVE
PG ENERGY INC	494082	LAUREL RUN	COMMERCIAL USE	ACTIVE
PG ENERGY INC	494082	PINE RUN INTAKE	COMMERCIAL USE	ACTIVE
PG ENERGY INC	494082	WANAMIE	COMMERCIAL USE	ACTIVE
SHIRLEY M RINEHIMER	254432	POND WITHDRAWAL	MINERAL USE	INACTIVE
SUGARLOAF GC INC	243760	POND	COMMERCIAL USE	ACTIVE
SUGARLOAF GC INC	243760	BUCK MOUNTAIN STREAM	COMMERCIAL USE	ACTIVE
Unavailable	259075	SURFACE WITHDRAWAL	AGRICULTURAL USE	ACTIVE
VALLEY CC	243972	POND 3	COMMERCIAL USE	ACTIVE
WILKES BARRE CITY GEN MUNI AUTH LUZERNE CNTY	243780	FIVE MILE RUN	COMMERCIAL USE	ACTIVE
WYOMING VALLEY CC	260442	POND	COMMERCIAL USE	ACTIVE

Table 2.4-14 SSES Units 1 and 2 Monthly Consumptive Water Use (Million Gallons per Month)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2001	824	785	569	554	1,011	1,089	1,131	1,157	1,046	1,028	950	894
2002	868	748	436	592	1,030	1,103	1,175	1,173	1,079	770	894	851
2003	986	927	865	625	1,042	1,051	1,145	1,139	931	986	927	865
2004	740	702	503	581	1,081	1,060	1,112	1,129	1,045	985	833	850
2005	791	682	531	870	1,024	1,032	1,145	1,153	1,078	985	757	827
2006	884	744	525	739	974	1,054	1,149	1,138	1,008	685	930	911

Table 2.4-15 Major Public Water Suppliers within Luzerne and Columbia Counties}

PWSIS	System Name	County	Source Waterbody Name	Source Pumping Capacity (GPD)	Source Safe Yield (GPD)
4190008	United Water PA Bloomsburg	Columbia	Fishing Creek	5,760,000	5,000,000
2409002	PA American Water Company- Ceasetown	Luzerne	Ceasetown Reservoir	8,300,000	13,200,000
2409002	PA American Water Company- Ceasetown	Luzerne	Harveys Creek	1,300,000	1,300,000
2409003	PA American Water Company- Crystal Lake	Luzerne	Crystal Lake	0	5,000,000
2409003	PA American Water Company- Crystal Lake	Luzerne	Crystal Lake	-	-
2409013	PA American Water Company- Huntsville	Luzerne	Huntsville Reservoir	4,500,000	6,000,000
2409010	PA American Water Company- Nesbitt	Luzerne	Maple Lake	0	0
2409010	PA American Water Company- Nesbitt	Luzerne	Watres Reservoir	-	2,600,000
2409010	PA American Water Company- Nesbitt	Luzerne	Nesbitt	0	0
2409011	PA American Water Company- Watres	Luzerne	Mill Creek Reservoir	-	-
2409011	PA American Water Company- Watres	Luzerne	Gardner Cr. Reservoir	-	-
2409011	PA American Water Company- Watres	Luzerne	Watres Reservoir	0	0
2400148	Stockton Water System	Luzerne	Ponds	-	-
2408001	HCA Roan Filter Plant ID-006	Luzerne	Stony Cabin Creek	0	0
2408001	HCA Roan Filter Plant ID-005	Luzerne	Wolfe's Run	0	0
2408001	HCA Roan Filter PlantID-004	Luzerne	Dreck Creek	0	0
2408001	HCA Roan Filter Plant ID-003	Luzerne	Biesel's Run	0	0
2408001	HCA Roan Filter Plant ID-002	Luzerne	Oberson's Run	0	0
2408001	HCA Roan Filter Plant ID-018	Luzerne	Shaffers Run	0	0
2408001	HCA Roan Filter Plant ID-012	Luzerne	Mt. Pleasant Spring	0	0
2408001	HCA Roan Filter Plant ID-021	Luzerne	Lehigh River	0	0
Note: GPD = Gallons per day					

Table 2.4-16 SSES Units 1 and 2 Cooling Tower Blowdown Discharge Rate Permit NoI PA0047325

MONTH	2000		2001		2002		2003		2004		2005		2006		2007	
	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max
January	6.86	11.81	11.17	15.55	8.91	10.42	6.58	10.42	11.08	17.72	12.09	17.29	9.41	15.08	10.63	16.92
February	9.68	17.28	10.24	11.88	7.52	10.08	9.22	10.30	12.36	14.36	11.15	17.28	9.72	12.10	11.47	14.69
March	8.26	17.28	6.45	10.94	5.67	9.07	6.70	8.64	8.84	14.44	8.76	17.28	8.16	11.48	9.49	16.48
April	7.80	11.28	6.96	11.52	8.46	10.85	7.28	10.37	11.94	17.28	14.54	17.28	10.93	12.94	13.04	17.28
May	14.37	17.28	15.86	17.28	12.80	17.06	12.84	16.85	11.30	15.88	12.89	14.28	12.01	15.56	14.36	17.22
June	15.19	17.28	17.08	17.28	16.68	17.28	13.64	17.28	14.53	16.98	13.15	17.28	14.33	17.28	17.17	17.28
July	15.66	17.28	15.40	17.28	17.13	17.28	16.79	17.28	16.35	17.28	12.27	16.05	16.15	17.28	17.20	17.28
August	13.51	17.28	16.33	16.70	17.05	17.28	17.13	17.28	15.61	17.28	12.63	17.28	17.01	17.28	17.28	17.28
September	14.40	17.28	16.72	17.28	16.16	17.28	13.26	17.28	16.54	17.28	13.28	17.28	16.35	17.28	15.24	17.28
October	11.12	13.39	13.18	15.26	10.60	15.12	9.56	15.26	11.62	16.72	13.71	17.28	12.83	17.10	13.51	17.28
November	9.36	16.92	13.71	16.18	9.19	12.24	11.57	17.28	9.84	13.61	8.59	13.21	12.74	17.16	10.73	17.28
December	11.46	17.28	11.17	15.55	6.49	11.52	9.73	17.78	13.42	17.28	9.91	16.71	11.75	16.36	9.23	14.33

Table 2.4-17 {Water Pollution Control Facilities in Luzerne County}

ORGANIZATION	SITE_ID	SUB_FACI_2	SITE_STATUS
ABF FREIGHT SYS INC	535140	DISCHARGE POINT	ACTIVE
AGWAY PETRO CORP	245439	DISCHARGE POINT	ACTIVE
ALLIANCE LDFL	452024	DISCHARGE POINT	ACTIVE
AMER ROCK SALT CO LLC	534131	DISCHARGE POINT	ACTIVE
AQUA PA INC	257459	CONVEYANCE SYSTEM	ACTIVE
BEMIS CO INC	238511	DISCHARGE POINT	ACTIVE
BP PROD NORTH AMER INC	245780	DISCHARGE POINT	ACTIVE
BRIDON AMER CORP	465509	DISCHARGE POINT	ACTIVE
BRUSH WELLMAN CORP	450819	DISCHARGE POINT	ACTIVE
BUTLER PROD	540068	DISCHARGE POINT	ACTIVE
CABOT CORP	241624	PRODUCTION SERVICE UNIT	ACTIVE
CASTEK INC	515571	DISCHARGE POINT	ACTIVE
CBD ENTERPRISES INC	250561	DISCHARGE POINT	ACTIVE
CELOTEX CORP	513776	DISCHARGE POINT	ACTIVE
CERTAINTEED CORP	242936	DISCHARGE POINT	ACTIVE
CON WAY FREIGHT INC	534973	DISCHARGE POINT	ACTIVE
DALLAS AREA MUNI AUTH	681690	PUMP STATION	ACTIVE
DIAL CORP	262476	DISCHARGE POINT	ACTIVE
EDWARD LUKASHEWSKI	532225	DISCHARGE POINT	ACTIVE
ELDORADO PROP CORP	236472	DISCHARGE POINT	ACTIVE
ENTENMANNS	534395	DISCHARGE POINT	INACTIVE
EXXON 739 CORP	260255	TREATMENT PLANT	ACTIVE
FABRAL INC	607189	DISCHARGE POINT	ACTIVE
FEDEX CORP	533615	PRODUCTION SERVICE UNIT	ACTIVE
FEDEX NATL LTL INC	662274	DISCHARGE POINT	ACTIVE
FLEXTRONICS	547487	DISCHARGE POINT	ACTIVE
GEN MILLS INC	536701	DISCHARGE POINT	ACTIVE
GRAHAM PKG CO LP	635944	DISCHARGE POINT	ACTIVE
GRAHAM PKG CO LP	637387	DISCHARGE POINT	ACTIVE
GREIF BROS CORP	534867	DISCHARGE POINT	ACTIVE
GRUMA CORP	655837	DISCHARGE POINT	ACTIVE
GSD PKG LLC	670073	PRODUCTION SERVICE UNIT	ACTIVE
GULF OIL LTD PARTNERSHIP	465179	DISCHARGE POINT	ACTIVE
HAZLETON CASTING CO	647590	DISCHARGE POINT	ACTIVE
HAZLETON CITY WATER AUTH LUZERNE CNTY	447541	DISCHARGE POINT	ACTIVE
HERSHEY FOODS CORP	481099	DISCHARGE POINT	ACTIVE
HPG INTL INC	248877	TREATMENT PLANT	ACTIVE
INDALEX INC - MOUNTAINTOP DIV	525674	DISCHARGE POINT	ACTIVE
INTERMETRO IND CORP	248955	DISCHARGE POINT	ACTIVE
INTERMETRO IND CORP	527804	DISCHARGE POINT	ACTIVE
INTERSIL CORP	471870	DISCHARGE POINT	ACTIVE
IRECO INC	241565	DISCHARGE POINT	ACTIVE
JACOBSON CO INC	699736	PRODUCTION SERVICE UNIT	ACTIVE
LOUIS COHEN & SON INC	534190	DISCHARGE POINT	ACTIVE
OFFSET PAPERBACK MANUFACTURERS INC	243274	PRODUCTION SERVICE UNIT	ACTIVE
PA AMER WATER CO	243286	TREATMENT PLANT	ACTIVE
PA AMER WATER CO	446349	DISCHARGE POINT	ACTIVE

Table 2.4-17 {Water Pollution Control Facilities in Luzerne County}

ORGANIZATION	SITE_ID	SUB_FACI_2	SITE_STATUS
PA AMER WATER CO	449229	DISCHARGE POINT	ACTIVE
PA AMER WATER CO	449233	DISCHARGE POINT	ACTIVE
PA AMER WATER CO	452022	DISCHARGE POINT	ACTIVE
PA AMER WATER CO	480951	DISCHARGE POINT	ACTIVE
PA DEP NERO	544343	DISCHARGE POINT	ACTIVE
PA DEPT OF CORR	516545	DISCHARGE POINT	ACTIVE
PETRO SVC CORP	547319	DISCHARGE POINT	ACTIVE
PILOT CORP	250389	DISCHARGE POINT	ACTIVE
POLYGLASS USA INC	525105	DISCHARGE POINT	ACTIVE
PPL ELEC UTILITIES CORP	250359	DISCHARGE POINT	ACTIVE
SANDUSKY LEWIS METAL PROD INC	236732	DISCHARGE POINT	ACTIVE
SCHOTT GLASS TECH INC	256591	DISCHARGE POINT	ACTIVE
SLUSSER BROS TRUCKING & EXCAV CO INC	513213	DISCHARGE POINT	ACTIVE
SLUSSER BROS TRUCKING & EXCAV CO INC	534045	DISCHARGE POINT	ACTIVE
SMITHS AEROSPACE COMPONENTS	665612	DISCHARGE POINT	ACTIVE
SOUTHERN ALLEGHENIES LDFL INC	803	TREATMENT PLANT	ACTIVE
STAR ENTERPRISE	248793	DISCHARGE POINT	ACTIVE
STERICYCLE INC	535121	DISCHARGE POINT	ACTIVE
SUNOCO INC	465963	DISCHARGE POINT	ACTIVE
SVC MFG INC	481491	DISCHARGE POINT	ACTIVE
TECHNEGLAS INC	244619	DISCHARGE POINT	ACTIVE
THREE SPRINGS WATER CO	261223	DISCHARGE POINT	ACTIVE
UGI DEVELOPMENT COMPANY	264295	DISCHARGE POINT	ACTIVE
UNISON ENGINE COMPONENTS INC	511980	DISCHARGE POINT	ACTIVE
UPS INC	534803	DISCHARGE POINT	ACTIVE
WEIR HAZLETON INC	511126	DISCHARGE POINT	ACTIVE
WILKES BARRE SCRANTON INTL AIRPORT	489635	DISCHARGE POINT	ACTIVE
WILLIAMS GAS PIPELINE TRANSCO	689478	DISCHARGE POINT	ACTIVE

Table 2.4-18 {1-Hour 1 mi^2 Probable Maximum Precipitation (PMP) Depths}

Duration (hrs)	All Season PMP (in)	All Season PMP (cm)
5	5.88	14.94
15	9.26	23.52
30	13.2	33.73
60	17.50	44.45

Table 2.4-19 {72-Hour 10 mi^2 Probable Maximum Precipitation (PMP) Depths}

Duration (hrs)	All Season PMP (in)	All Season PMP (cm)
6	26.3	66.8
12	30.0	76.2
24	32.6	82.8
48	36.4	92.5
72	37.6	95.5

Table 2.4-20 {Sub-Basin Drainage Areas for BBNPP (Site Drainage)}

Hydrologic Element/ Sub-Basin	Drainage Area ft^2 (m^2)	Drainage Area ac (ha)
Waste Disposal Area	5,026,902.6 (467,014.5)	115.398 (46.702)
Switchyard	1,308,070.2 (121,523.7)	30.028 (12.152)
Power Block	2,480,613.5 (230,456.5)	56.945 (23.046)
ESWEMS Pond	272,153.12 (25,283.9)	6.248 (2.529)
Wetlands Area	487,063.0 (45,249.6)	11.181 (4.525)
Switchyard Extension	3,416,501.6 (317, 403.4)	78.429 (31.740)
Parking Lot	1,633,405.2 (497,861.9)	37.496 (15.175)

Table 2.4-21 {HEC-HMS Sub-Basin Site PMP Peak Discharges for BBNPP (Site Drainage)}

Hydrologic Element/ Sub-basin	Drainage Area ft^2(m^2)	Peak Discharge cfs (cms)	Runoff Volume in (cm)
Waste Disposal Area[1]	5,026,902.6 (467,014.5)	7,450.96 (210.99)	17.12 (43.48)
Switchyard[1]	1,308,070.2 (121,523.7)	2,120.26 (60.04)	17.30 (43.94)
Power Block[1]	2,480,613.5 (230,283.9)	2,479.59 (70.21)	16.02 (40.69)
ESWEMS Pond[2]	272,153.2 (25,283.9)	120.71 (3.42)	37.77 (95.94)
Wetlands Area[1]	487,063.0 (45,249.6)	789.48 (22.36)	17.30 (43.94)

Table 2.4-21 {HEC-HMS Sub-Basin Site PMP Peak Discharges for BBNPP (Site Drainage)}

Hydrologic Element/ Sub-basin	Drainage Area $ft^2(m^2)$	Peak Discharge cfs (cms)	Runoff Volume in (cm)
Switchyard Extension[1]	3,416,501.6 (317,403.4)	2,702.34 (76.52)	16.02 (40.69)
Parking Lot[1]	1,633,405.2 (497.861.9)	2,161.61 (61.21)	16.94 (43.03)
[1]Sub-basin evaluated using 1-hour PMP data (see Table 2.4-18). [2] Sub-basin evaluated using 72-hour PMP data (see Table 2.4-19).			

Table 2.4-22 {Safety-Related Facility Entrance Elevation Summary}

Safety-Related Facility	Entrance Elevation ft (m)	PMP Peak Water Elevation ft (m)	Freeboard ft (m)
Nuclear Island[*,1]	674.00 (205.44)	670.66 (204.42)	3.34 (1.02)
ESW Cooling Tower Structures[1]	674.00 (205.13)	670.66 (204.42)	3.34 (1.02)
Emergency Power Generator Building[1]	674.00 (205.13)	670.66 (204.42)	3.34 (1.02)
ESWEMS Building[2]	674.00 (205.44)	672.13 (204.87)	1.87 (0.57)

[*] Includes Reactor, Fuel and Safeguards Buildings.
[1]Evaluated using 1-hour PMP data (see Table 2.4-18).
[2]Evaluated using 72-hour PMP data (see Table 2.4-19).

Table 2.4-23 {Walker Run Probable Maximum Precipitation Depths}

Area (mi^2)	6-hr	12-hr	24-hr	48-hr	72-hr
10	26.3	30.0	32.6	36.4	37.6
200	17.8	21.2	24.2	27.8	28.7
1,000	12.8	16.0	19.3	22.0	23.1
5,000	7.7	11.1	13.6	16.8	17.8
10,000	6.0	9.2	11.4	13.9	15.3

Source: NOAA, 1978.

Table 2.4-24 {Walker Run PMP Peak Flow Rates}

Hydrologic Element	Drainage Area mi^2 (km^2)	Peak Discharge cfs (m^3/sec)	Time of Peak* (hr)
Junction-1	4.10 (10.61)	21,747 (616)	40:40
Junction-2	3.12 (8.08)	16,685 (472)	40:25
Reach-1-Walker Run	4.10 (10.61)	21,747 (616)	40:40
Reach-2-Walker Run	3.12 (8.08)	16,542 (468)	40:50
Reach-3-Walker Run	3.12 (8.08)	16,554 (469)	40:45
Reach-4-Walker Run	3.12 (8.08)	16,573 (469)	40:40
Sub-Basin A1	0.98 (2.54)	6,312 (179)	40:15
Sub-Basin A2	2.43 (6.29)	13,033 (369)	40:40
Sub-Basin A3	0.69 (1.79)	5,224 (148)	40:00

* Note: Time to peak is measured from the start of the synthetic Probable Maximum Precipitation Event. The peak intensity rainfall occurs at time 39:15 from the start of the 72-hr storm (USACE, 1984).

Table 2.4-25 {Walker Run PMF Water Surface Elevations}

(Page 1 of 2)

	River/Stream	Cross Section/River Station (ft)	Discharge (cfs)	Water Surface Elevation		Location (See Figure 2.4-30 through Figure 2.4-32)
				(ft) msl	(m) msl	
1	Walker Run	20,547	13,033	810.32	246.99	Upstream of Plant
2	Walker Run	19,542	13,033	781.62	238.24	Upstream of Plant
3	Walker Run	19,069	Bridge	Bridge	Bridge	Bridge
4	Walker Run	18,546	13,033	765.89	233.44	Upstream of Plant
5	Walker Run	18,062	Bridge	Bridge	Bridge	Bridge
6	Walker Run	17,444	Bridge	Bridge	Bridge	Bridge
7	Walker Run	15,810	13,033	694.18	211.59	Upstream of Plant
8	Walker Run	15,029	Bridge	Bridge	Bridge	Beach Grove Road
9	Walker Run	13,697	Bridge	Bridge	Bridge	Market Street
10	Walker Run	13,573	13,033	677.11	206.38	Cooling Tower US
11	Walker Run	13,557	13,033	677.05	206.36	Cooling Tower
12	Walker Run	13,473	13,033	676.68	206.25	Cooling Tower
13	Walker Run	13,405	13,033	675.87	206.01	Cooling Tower
14	Walker Run	13,342	13,033	675.31	205.83	Cooling Tower
15	Walker Run	13,300	13,033	675.28	205.83	Cooling Tower
16	Walker Run	13,274	13,033	675.1	205.77	Cooling Tower
17	Walker Run	13,226	13,033	674.3	205.53	Cooling Tower
18	Walker Run	13,167	13,033	671.7	204.73	Cooling Tower DS
19	Walker Run	12,715	13,033	670.96	204.51	Plant US
20	Walker Run	12,680	13,033	670.89	204.49	Plant
21	Walker Run	12,636	13,033	670.81	204.46	Plant
22	Walker Run	12,592	13,033	670.73	204.44	Plant
23	Walker Run	12,560	13,033	670.68	204.42	Plant
24	Walker Run	12,498	13,033	670.62	204.40	Plant
25	Walker Run	12,463	13,033	670.56	204.39	Plant
26	Walker Run	12,406	13,033	670.49	204.37	Plant
27	Walker Run	12,346	13,033	670.44	204.35	Plant
28	Walker Run	12,277	13,033	669.94	204.20	Plant
29	Walker Run	12,252	Bridge	Bridge	Bridge	Site Access Road
30	Walker Run	12,225	13,033	669.98	204.21	Plant
31	Walker Run	12,093	13,033	669.99	204.21	Plant
32	Walker Run	12,011	13,033	669.99	204.21	Plant
33	Walker Run	11,951	13,033	669.98	204.21	Plant
34	Walker Run	11,881	13,033	669.97	204.21	Plant
35	Walker Run	11,812	13,033	669.97	204.21	Plant
36	Walker Run	11,763	13,033	669.96	204.20	Plant DS
37	Walker Run	11,594	16,685	669.9	204.19	Downstream of Plant
38	Walker Run	9,692	Bridge	Bridge	Bridge	Market Street
39	Walker Run	9,182	18,700	669.24	203.98	Downstream of Plant
40	Walker Run	9,040	Bridge	Bridge	Bridge	Bridge
41	Walker Run	7,806	19,200	667.24	203.37	Downstream of Plant
42	Walker Run	7,544	Bridge	Bridge	Bridge	Bridge
43	Walker Run	5,022	20,200	638.21	194.53	Downstream of Plant
44	Walker Run	2,029	21,747	552.06	168.27	Downstream of Plant

Table 2.4-25 {Walker Run PMF Water Surface Elevations}

	River/Stream	Cross Section/River Station (ft)	Discharge (cfs)	Water Surface Elevation		Location (See Figure 2.4-30 through Figure 2.4-32)
				(ft) msl	(m) msl	
45	Walker Run	1,469	Bridge	Bridge	Bridge	Route 11
46	Walker Run	1,232	Bridge	Bridge	Bridge	Bridge
47	Walker Run	1,123	21,747	521	158.80	Downstream of Plant

Table 2.4-26 {Susquehanna River Basin Upstream Dam Information}

NAME	TIOGA[2] (PA)	HAMMOND[2] (PA)	STILLWATER[2] (PA)	AYLESWORTH CREEK[2] (PA)	COWANESQUE2 (PA)	EAST SIDNEY[3] (NY)	WHITNEY POINT[3] (NY)	ALMOND[3] (NY)
OWNER	CENAB	CENAB	CENAB	CENAB	CENAB	CORPS OF ENGINEERS - BALTIMORE DISTRICT	CENAB	CORPS OF ENGINEERS - BALTIMORE DISTRICT
PURPOSE	FLOOD CONTROL / RECREATION	FLOOD CONTROL / RECREATION	FLOOD CONTROL / WATER SUPPLY	FLOOD CONTROL / RECREATION/ LOW-FLOW AUGMENTATION	FLOOD CONTROL / RECREATION / WATER SUPPLY	FLOOD CONTROL / RECREATION	FLOOD CONTROL / RECREATION	FLOOD CONTROL / RECREATION
STATUS (DATE)	COMPLETE (1980)	COMPLETE (1980)	COMPLETE (1960)	COMPLETE (1971)	COMPLETE (1980)	COMPLETE (1950)	COMPLETE (1942)	COMPLETE (1949)
Stream	Tioga River	Crooked Creek	Lackawanna River	Aylesworth Creek	Cowanesque River	Ouleout Creek	Otselic River	Canacadea Creek
River Mile[1]	350	350	234	-	341	405	331	373
Drainage Area (sq. mi.)	280	122	37.1	6.2	298	103	257	55.8
Structure Type	Earth Fill	Earth Fill	Earth Fill	Earth Fill	Rolled Earth / ock Fill	Concrete Dam / Rock Fill Dike	Earth Fill	Earth Fill
Dam Crest Length[1] (ft)	2,600	3,830	1,700	-	2,930	750 (concrete) 1,140 (earth)	1,300	1,260
Height of Dam[1] (ft)	140	122	77	-	154	130	95	90
Design Freeboard[1] (ft)	5.2	5.3	4.9	-	5.7	6.0	8.7	5.5
Spillway Crest Length[1] (ft)	-	300	264	-	400	240	220	285
Design Discharge[1] (cfs)	-	215,500	37,780	-	224,000	81,000	75,000	54,000
Elevations (ft msl)								
Gate Sill	-	-	-	-	-	1,115.0	950.0	1,229.0
Conservation Pool	-	-	-	786.0	-	-	-	-
Recreation Pool	1,081.0	1,086.0	-	-	1,080.0	-	-	-
Flood Control Pool	1,131.0	1,131.0	1,621.0	-	1,117.0	1,203.0	1,010.0	1,300.0
Maximum Pool	-	-	-	-	-	-	-	-
Top of Dam[1]	1,171.0	1,168.5	-	-	1,154.0	1,228.5	1,039.5	1,320.0
Storage Volumes (Acre-ft)								
Conservation Pool	-	-	-	514,000	-	-	-	-
Recreation Pool	9,500	8,850	-	-	32,600	-	-	-
Flood Control Pool	62,000	63,000	12,000	762,000	89,110	33,606	86,468	14,800
Reservoir Areas (Acres)								

Table 2.4-26 {Susquehanna River Basin Upstream Dam Information}

NAME	TIOGA[2] (PA)	HAMMOND[2] (PA)	STILLWATER[2] (PA)	AYLESWORTH CREEK[2] (PA)	COWANESQUE2 (PA)	EAST SIDNEY[3] (NY)	WHITNEY POINT[3] (NY)	ALMOND[3] (NY)
OWNER	CENAB	CENAB	CENAB	CENAB	CENAB	CORPS OF ENGINEERS - BALTIMORE DISTRICT	CENAB	CORPS OF ENGINEERS - BALTIMORE DISTRICT
PURPOSE	FLOOD CONTROL / RECREATION	FLOOD CONTROL / RECREATION	FLOOD CONTROL / WATER SUPPLY	FLOOD CONTROL / RECREATION/ LOW-FLOW AUGMENTATION	FLOOD CONTROL / RECREATION / WATER SUPPLY	FLOOD CONTROL / RECREATION	FLOOD CONTROL / RECREATION	FLOOD CONTROL / RECREATION
STATUS (DATE)	COMPLETE (1980)	COMPLETE (1980)	COMPLETE (1960)	COMPLETE (1971)	COMPLETE (1980)	COMPLETE (1950)	COMPLETE (1942)	COMPLETE (1949)
Recreation Pool	-	-	-	-	-	-	-	-
Flood Control Pool	-	-	-	-	-	-	-	-

Sources: USGS, 2002; USGS, 2008c through g; RIZZO, 1999.

[1]Dam information obtained from PPL, 1999a.

[2]Dam information obtained from USGS, 2008c through g (with the exception of items marked with [1]).

[3]Dam information obtained from USGS, 2002 (with the exception of items marked with [1]).

Note: Dam information for Genegantslet Lake, South Side and Plymouth Reservoir Dams is not available.

Table 2.4-27 Historical Tsunamis and Maximum Generated Wave Heights

Date	Country	City	Latitude	Longitude	Earthquake[(1)] Magnitude	TsunamiCause	Maximum Tsunami Water Height (meter) above sea level
11/01/1755	Portugal	Lisbon	36.000	-11.000	N.A.	Earthquake	30.00
06/27/1864	Canada	Avalon Peninsula, Newfoundland	46.500	-53.700	N.A.	Earthquake	N.A.
12/16/1811	USA	New Madrid Earthquakes, MO	35.600	-90.400	8.5	Earthquake	N.A.
12/16/1811	USA	New Madrid Earthquakes, MO	35.600	-90.400	8.0	Earthquake	N.A.
01/23/1812	USA	New Madrid, MO	36.300	-89.600	8.4	Earthquake	N.A.
02/07/1812	USA	New Madrid, MO	36.500	-89.600	8.8	Earthquake	N.A.
09/01/1886	USA	Charleston, SC	32.900	-80.000	7.7	Earthquake	N.A.
09/01/1895	USA	High Bridge, NJ	40.667	-74.883	4.3	Earthquake	N.A.
10/11/1918	USA Territory	Mona Passage, Puerto Rico	18.500	-67.500	7.3	Earthquake	6.10
11/18/1929	Canada	Grand Banks, Newfoundland	44.690	-56.000	7.4	Earthquake and Submarine Landslide	7.00
08/04/1946	Dominican Republic	Northeastern Coast	19.300	-68.900	8.1	Earthquake	5.00
08/08/1946	Dominican Republic	Northeastern Coast	19.710	-69.510	7.9	Earthquake	0.60
05/19/1964	USA	Long Island, NY	40.800	73.100	N.A.	Submarine Landslide	0.28

(1) The value in this column contains the primary earthquake magnitude: 0.0 to 9.9
N.A. = Not Available

Table 2.4-28 {Estimated Average Monthly Ice Thickness, Susquehanna River 2001-2007}

Month	AFDD (°F)	Ice Thickness (in)	Ice Thickness (cm)
January	190.4	2.07	5.26
February	125.1	1.68	4.27
December	88.1	1.41	3.58
Average	134.5	1.72	4.37
Note: Estimated values based on SSES Unit 1 & 2 Meteorological Tower data (PPL, 2008).			

Table 2.4-29 {Estimated Average Monthly Ice Thickness, ESW Emergency Makeup Retention Pond 2001-2007}

Month	AFDD (°F)	Ice Thickness (in)	Ice Thickness (cm)
January	190.4	9.66	24.54
February	125.1	7.83	19.89
December	88.1	6.57	16.69
Average	134.5	8.02	20.37
Note: Estimated values based on SSES Unit 1 & 2 Meteorological Tower data (PPL, 2008).			

Table 2.4-30 {10 mi^2 (25.9 km^2)Probable Maximum Precipitation Depths at the ESWEMS}

Duration (hrs)	All Season PMP (in)	All Season PMP (cm)
6	26.3	66.8
12	30.0	76.2
24	32.6	82.8
48	36.4	92.5
72	37.6	95.5

Table 2.4-31 {Data Input and Results for Wind Setup Calculations}

Scenario	Wind Velocity U (mph)	Effective Fetch E_g (ft)	Wind Tide Fetch F (mi)	Average Depth D (ft)	Wind Setup S (ft)
Fastest Annual Wind	57	688.78	0.2609	20.63	0.03
2-year Wind Event	50	688.78	0.2609	20.63	0.02
10-year Wind Event	60	688.78	0.2609	20.63	0.03
25-year Wind Event	70	688.78	0.2609	20.63	0.04
50-year Wind Event	71	688.78	0.2609	20.63	0.05
100-year Wind Event	83	688.78	0.2609	20.63	0.06
1,000-year Wind Event	118	688.78	0.2609	20.63	0.13
Scenario	**Wind Velocity U (km/hr)**	**Effective Fetch F_e (m)**	**Wind Tide Fetch F (km)**	**Average Depth D (m)**	**Wind Setup S (m)**
Fastest Annual Wind	92	209.9	0.4198	6.3	0.009
2-year Wind Event	80	209.9	0.4198	6.3	0.006
10-year Wind Event	97	209.9	0.4198	6.3	0.009
25-year Wind Event	113	209.9	0.4198	6.3	0.012
50-year Wind Event	114	209.9	0.4198	6.3	0.015
100-year Wind Event	134	209.9	0.4198	6.3	0.018
1,000-year Wind Event	190	209.9	0.4198	6.3	0.040

Table 2.4-32 {Wave Runup Results}

Scenario	Wind Setup (ft) S	Wave Runup (ft) $R_{u2\%}$	Freeboard Requirement (ft) $S+R_{u2\%}$
Fastest Annual Wind	0.03	0.56	0.59
2-year Wind Event	0.02	0.50	0.52
10-year Wind Event	0.03	0.59	0.62
25-year Wind Event	0.04	0.68	0.73
50-year Wind Event	0.05	0.69	0.74
100-year Wind Event	0.06	0.81	0.88
1,000-year Wind Event	0.13	1.17	1.30
Scenario	**Wind Setup (m) S**	**Wave Runup (m) $R_{u2\%}$**	**Freeboard Requirement (m) $S+R_{u2\%}$**
Fastest Annual Wind	0.009	0.17	0.18
2-year Wind Event	0.006	0.15	0.16
10-year Wind Event	0.009	0.18	0.19
25-year Wind Event	0.012	0.21	0.22
50-year Wind Event	0.015	0.21	0.23
100-year Wind Event	0.018	0.25	0.27
1,000-year Wind Event	0.040	0.36	0.40

Table 2.4-33 {Fastest Mile Quantities Using Fisher-Tippet Type I (Frechet) Distribution}

Scenario	[1]Extreme Fastest Mile Wind Speed (mph)	Extreme Fastest Mile Wind Speed (km/h)
[2]Fastest Annual Wind	57	92
2-year Wind Event	50	80
10-year Wind Event	60	97
25-year Wind Event	70	113
50-year Wind Event	71	114
100-year Wind Event	83	134
1,000-year Wind Event	118	190

[1] Extreme Fastest Mile Wind Speed Interpolated for BBNPP site.
[2] Fastest Annual wind was obtained from the SSES Unit 1 & 2 meteorological tower, based on available data from 2001 to 2007.

Table 2.4-34 {Summary of Information of the Stations and Range of Data Used}

Station Name	USGS Station ID	Location		mslStation Datum ft (m)	Period of Record
		Latitude	Longitude		
Danville, PA	01540500	40°57’9”	76°37’10”	431.29 (131.46)	1900-2006
Wilkes-Barre, PA	01536500	41°15’03”	75°52’52”	510.86 (155.71)	1899-2006

Table 2.4-35 {Annual Minimum Water Levels at Danville, PA Station}

(Page 1 of 3)

Date	[(1)]Stage Elevation (ft) msl	Gauge Height (ft)	Streamflow (cfs)
25-Sep-1900	432.89	1.60	822
27-Oct-1901	434.39	3.10	4,510
19-Sep-1902	434.04	2.75	3,115
8-Oct-1903	434.75	3.46	5,728
8-Jul-1905	435.19	3.90	7,720
30-Jun-1906	435.52	4.23	9,360
15-Oct-1907	436.96	5.67	14,700
15-Sep-1908	433.03	1.74	981
25-Jun-1909	435.27	3.98	8,426
20-May-1912	438.84	7.55	25,612
4-Aug-1913	433.39	2.10	1,593
3-May-1915	436.35	5.06	14,022
4-Oct-1915	435.09	3.80	7,655
25-Sep-1917	434.29	3.00	3,767
5-Oct-1917	433.99	2.70	2,766
5-Oct-1918	436.52	5.23	12,900
29-Aug-1919	434.05	2.76	3,240
23-Jun-1920	435.47	4.18	9,290
21-Jun-1921	433.76	2.47	2,360
27-Aug-1922	437.66	6.37	20,400
18-Jul-1923	433.38	2.09	1,540
11-Aug-1924	433.77	2.48	2,360
22-Jul-1925	434.85	3.56	5,990
15-Aug-1929	433.83	2.54	2,550
16-Nov-1929	433.99	2.70	3,110
17-Sep-1930	433.56	2.27	1,680
13-Nov-1931	433.55	2.26	1,730
25-May-1933	435.75	4.46	9,790
17-Oct-1933	434.2	2.91	3,750
12-Jun-1935	434.75	3.46	5,780
14-Oct-1936	433.45	2.16	1,640
24-Aug-1937	434.61	3.32	4,840
13-Jun-1938	434.37	3.08	4,140
31-Aug-1939	433.08	1.79	980
13-Aug-1940	433.82	2.53	2,450
2-Oct-1941	433.09	1.80	962
1-Dec-1941	433.81	2.52	2,450
4-Oct-1943	433.38	2.09	1,440
1-Sep-1944	433.49	2.20	1,510
17-Aug-1945	434.57	3.28	4,580
14-Sep-1946	433.83	2.54	2,000
6-Oct-1947	433.75	2.46	2,010
27-Sep-1948	433.47	2.18	1,370
1-Aug-1949	433.8	2.51	2,300
29-Sep-1950	434.46	3.17	4,140
29-Aug-1951	433.86	2.57	2,370

Table 2.4-35 {Annual Minimum Water Levels at Danville, PA Station}

(Page 2 of 3)

Date	[(1)]Stage Elevation (ft) msl	Gauge Height (ft)	Streamflow (cfs)
21-Oct-1952	433.55	2.26	1,700
2-Sep-1953	433.12	1.83	1,040
17-Aug-1954	433.32	2.03	1,400
2-Aug-1955	433.08	1.79	978
8-Aug-1956	434.35	3.06	3,960
27-Aug-1957	433.56	2.27	1,750
15-Oct-1958	434.19	2.90	3,440
29-Jul-1959	433.46	2.17	1,540
3-Aug-1960	434.12	2.83	2,990
30-Oct-1961	433.35	2.06	1,310
20-Jul-1962	433.5	2.21	1,640
16-Oct-1963	433.1	1.81	936
9-Sep-1964	433.02	1.73	823
30-Nov-1964	433.33	2.04	1,280
16-Aug-1966	433.46	2.17	1,430
5-Oct-1967	434.43	3.14	3,980
10-Sep-1968	434.01	2.72	2,840
30-Sep-1969	433.46	2.17	1,550
25-Aug-1970	433.82	2.53	2,330
8-Sep-1971	433.89	2.60	2,520
21-Sep-1972	434.01	2.72	2,860
2-Oct-1973	434.37	3.08	4,020
22-Jul-1974	434.28	2.99	3,610
6-Aug-1975	434.21	2.92	3,360
9-Dec-1975	437.1	5.81	7,060
8-Jun-1977	434.47	3.18	4,290
2-Oct-1978	434.09	2.80	2,940
19-Jul-1979	433.98	2.69	2,560
9-Sep-1980	433.49	2.20	1,500
28-Aug-1981	433.61	2.32	1,850
17-Aug-1982	433.97	2.68	2,700
3-Oct-1983	433.5	2.21	1,660
10-Nov-1983	433.55	2.26	1,610
31-Oct-1984	434.06	2.77	2,930
11-Mar-1986	437.3	6.01	16,400
6-Aug-1986	437.31	6.02	15,800
12-Jul-1988	433.52	2.23	1,650
12-Oct-1988	433.64	2.35	1,970
16-Aug-1989	434.16	2.87	3,110
8-Aug-1991	433.33	2.04	1,380
30-Oct-1991	433.85	2.56	2,160
21-Jul-1993	433.6	2.31	1,840
17-Oct-1994	434.61	3.32	4,560
27-Sep-1995	433.52	2.23	1,830
2-Jul-1996	435.59	4.30	8,510
20-Oct-1997	433.48	2.19	1,640

Table 2.4-35 {Annual Minimum Water Levels at Danville, PA Station}

(Page 3 of 3)

Date	[1]Stage Elevation (ft) msl	Gauge Height (ft)	Streamflow (cfs)
29-Jun-1998	437.11	5.82	14,700
24-Jun-1999	433.67	2.38	1,820
24-Nov-1999	435.96	4.67	4,080
23-May-2001	434.54	3.25	4,330
24-Sep-2001	433.47	2.18	1,670
15-Jul-2003	435.2	3.91	7,080
27-Aug-2004	437.24	5.95	16,600
10-Aug-2005	433.57	2.28	1,600
16-Sep-2005	433.56	2.27	1,720
10-Aug-2007	434.11	2.82	3,130
5-Nov-2007	435.41	4.12	8,340

[1] Stage elevation determined based on gage datum of 431.29 ft

Table 2.4-36 {Annual Minimum Water Levels at Wilkes-Barre PA Station}

(Page 1 of 3)

Date	(1)Stage Elevation (ft) msl	Gauge Height (ft)	Streamflow (cfs)
26-Sep-1900	513.06	2.20	961
20-Aug-1901	513.96	3.10	2,170
20-Sep-1902	513.96	3.10	2,170
15-Sep-1904	514.56	3.70	3,540
7-Nov-1904	515.35	4.49	5,660
29-Mar-1905	530.83	19.97	97,680
2-Jul-1906	516.37	5.51	9,400
16-Oct-1907	516.35	5.49	11,200
29-Oct-1908	513.52	2.66	1,657
4-May-1909	526.44	15.58	59,171
5-Aug-1913	512.99	2.13	1,017
2-Jun-1914	515.21	4.35	5,581
25-Aug-1914	516.82	5.96	10,492
8-Oct-1915	517.87	7.01	15,146
11-Jul-1916	515.15	4.29	5,859
1-Oct-1919	513.26	2.40	1,810
12-Feb-1920	513.81	2.95	2,620
11-Jun-1920	513.94	3.08	3,200
14-Sep-1921	512.99	2.13	1,490
21-Aug-1922	513.82	2.96	2,930
14-Aug-1923	512.88	2.02	1,360
13-Aug-1924	513.64	2.78	2,410
18-May-1925	516.34	5.48	9,670
19-Jul-1926	513.42	2.56	1,950
13-Aug-1929	512.4	1.54	1,270
19-Aug-1930	511.93	1.07	1,010
11-Sep-1930	512.27	1.41	1,210
5-Oct-1932	512.34	1.48	1,240
5-Aug-1933	512.54	1.68	1,660
12-Jul-1934	512.64	1.78	1,870
22-Oct-1935	512.41	1.55	1,720
16-Jul-1936	512.38	1.52	1,350
31-Jul-1937	513.02	2.16	2,160
14-Sep-1938	512.55	1.69	1,710
18-Sep-1939	511.55	0.69	609
8-Aug-1940	512.71	1.85	1,960
3-Oct-1941	511.75	0.89	715
4-Dec-1941	512.84	1.98	1,920
29-Sep-1943	511.95	1.09	1,110
7-Sep-1944	511.9	1.04	1,200
29-Aug-1945	513.23	2.37	3,210
12-Sep-1946	512.57	1.71	2,210
8-Oct-1947	512.33	1.47	1,980
28-Sep-1948	511.92	1.06	1,280
8-Sep-1949	512.62	1.76	2,230
31-Oct-1950	513.3	2.44	3,570

Table 2.4-36 {Annual Minimum Water Levels at Wilkes-Barre PA Station}

(Page 2 of 3)

Date	[1]Stage Elevation (ft) msl	Gauge Height (ft)	Streamflow (cfs)
16-Oct-1951	512.5	1.64	1,960
12-Nov-1952	511.76	0.90	1,530
2-Oct-1953	511.24	0.38	839
2-Nov-1954	511.78	0.92	1,340
12-Jul-1955	512.2	1.34	1,840
22-Aug-1956	512.26	1.40	2,090
4-Sep-1957	511.64	0.78	1,410
16-Aug-1958	512.95	2.09	3,220
22-Sep-1959	510.82	-0.04	833
23-Aug-1960	512.4	1.54	2,470
31-Oct-1961	511.05	0.19	1,370
7-Sep-1962	510.01	-0.85	671
21-Oct-1963	509.45	-1.41	736
22-Sep-1964	509.13	-1.73	545
13-Aug-1965	509.57	-1.29	788
7-Sep-1966	509.89	-0.97	985
19-Sep-1967	511.43	0.57	2,980
30-Sep-1968	509.8	-1.06	2,000
24-Sep-1969	510.67	-0.19	1,320
14-Sep-1970	510.77	-0.09	1,480
22-Jul-1971	510.76	-0.10	1,430
17-Oct-1972	511.39	0.53	2,200
25-Oct-1973	511.05	0.19	1,590
2-Aug-1974	511.99	1.13	3,720
28-Aug-1975	511.85	0.99	3,200
22-Jul-1976	513.35	2.49	6,820
13-Jul-1977	512.24	1.38	3,800
14-Sep-1978	511.06	0.20	1,500
24-Jul-1979	511.47	0.61	2,780
17-Sep-1980	510.19	-0.67	1,010
6-Aug-1981	511.3	0.44	2,220
6-Oct-1982	510.48	-0.38	1,270
13-Sep-1983	510.23	-0.63	994
31-Oct-1984	511.6	0.74	2,710
22-Aug-1985	510.54	-0.32	1,080
29-Aug-1986	512.23	1.37	3,990
2-Jun-1987	512.37	1.51	4,660
28-Oct-1987	513.03	2.17	5,790
23-Aug-1989	511.1	0.24	2,070
5-Oct-1989	511.57	0.71	2,780
8-Aug-1991	510.37	-0.49	905
9-Oct-1992	512.25	1.39	3,960
5-Aug-1993	510.69	-0.17	1,380
25-Aug-1994	518.06	7.20	21,900
19-Jul-1995	510.78	-0.08	789
10-Jun-1996	514.03	3.17	9,230

Table 2.4-36 {Annual Minimum Water Levels at Wilkes-Barre PA Station}

(Page 3 of 3)

Date	[(1)]Stage Elevation (ft) msl	Gauge Height (ft)	Streamflow (cfs)
18-Jul-1997	511.19	0.33	2,370
17-Oct-1997	510.64	-0.22	1,590
12-Aug-1999	510.28	-0.58	757
7-Oct-1999	513.05	2.19	6,530
9-Aug-2001	510.99	0.13	1,740
11-Sep-2001	510.59	-0.27	1,110
20-Nov-2003	510.86	9.91	4,470
31-Mar-2005	510.86	20.05	1,050
20-Jul-2006	514.09	3.23	9,270
5-Sep-2007	510.65	-0.21	1,380
4-Oct-2007	511.09	0.23	2,120

[1] Stage elevation determined based on gage datum of 510.86 ft

Table 2.4-37 {Annual Low Flow Statistics for Danville and Wilkes-Barre Stations}

Gauge Station	Drainage Area (mi^2)	Period of Record	$Q_{1,10}$ (cfs)	$Q_{7,10}$ (cfs)	$Q_{30,10}$ (cfs)	Mean (cfs)	Median (cfs)	Harmonic Mean (cfs)
USGS Wilkes-Barre (upstream)	9,960	1899 - 2006	799	850	1,032	13,606	7,390	4,283
USGS Danville (downstream)	11,220	1900 - 2006	945	1,017	1,284	15,501	8,770	5,262
BBNPP Site (using upstream gage)	10,200	-	818	870	1,056	-	-	-
BBNPP Site (using downstream gage)	10,200	-	859	924	1,167	-	-	-

Notes:

- BBNPP Site statistics were interpolated based on USGS gauging stations near SSES intake structure.
- Q1,10 flow is the mean stream flow over 1 day which, on a statistical basis, can be expected to occur once every 10 years.
- Q7,10 flow is the mean stream flow over 7 consecutive days which, on a statistical basis, can be expected to occur once every 10 years.
- Q30,10 flow is the mean stream flow over 30 consecutive days which, on a statistical basis, can be expected to occur once every 10 years.

Table 2.4-38 {Estimated Recurrence Interval for the Lowest Recorded Flow, Wilkes-Barre and Danville Stations}

Gage Station	Water Year of Low Flow Event	Flow (cfs)	Estimated Recurrence Interval		
			Weilbull T_r (yr)	Gumbel T_r (yr)	Log Pearson Type III *T_r (yr)
Wilkes-Barre	1964	532	109	33	4
Danville	1964	558	102	87	4

* T_r estimated using power trendline with R2 < 0.90 at each gauging station.

Table 2.4-39 {Physical Characteristics of Ground Water Wells in the North Branch Susquehanna River Basin, Pennsylvania}

Geologic Unit	Well Type (1)	Well Depth (ft)				Casing Length (ft)				Depth to Water (ft)			
		No. of Wells	Percentile (2)			No. of Wells	Percentile (2)			No. of Wells	Percentile (2)		
			25th	50th	75th		25th	50th	75th		25th	50th	75th
Alluvium, Glacial Overburden	D	56	42	56	88	54	44	57	90	45	10	18	24
	N	71	35	68	97	43	28	51	83	37	8	17	30
Catskill Formation	D	950	145	198	275	918	30	42	80	737	7	55	101
	N	247	194	293	438	182	37	62	100	155	25	60	120
Trimmers Rock Formation	D	84	117	199	255	78	20	22	40	58	20	31	58
	N	11	197	300	395	8	-	60	-	7	-	35	-
Mahantango and Marcellus Formations (Hamilton Group)	D	124	75	120	155	106	21	30	45	95	15	23	36
	N	29	150	300	500	24	25	39	46	20	7	16	30
Onondaga and Old Port Formations	D	6	-	147	-	5	-	22	-	5	-	30	-
	N	11	90	218	420	11	35	47	77	11	15	25	34
Keyser and Tonoloway Formations	D	17	75	150	185	17	35	45	95	13	10	35	71
	N	9	-	205	-	8	-	55	-	9	-	19	-

Notes:
(1) D = Domestic, N = Nondomestic
(2) Percent of wells that have values less than or equal to the value shown

Table 2.4-40 {Yields and Specific Capacities of Wells in the North Branch Susquehanna River Basin, Pennsylvania}

Geologic Unit	Well Type(1)	Reported Well Yield (gpm)				Specific Capacity (gpm/ft)			
		No. of Wells	Percentile (2)			No. of Wells	Percentile (2)		
			25th	50th	75th		25th	50th	75th
Alluvium, Glacial Overburden	D	56	12	18	22	10	0.34	0.8	2
	N	60	50	164	500	20	7	20	43
Catskill Formation	D	931	7	12	20	352	0.16	0.5	1.0
	N	215	17	35	85	82	0.3	0.7	1.9
Trimmers Rock Formation	D	79	3	6	10	18	0.03	0.06	0.17
	N	11	10	15	30	5	-	0.10	-
Mahantango and Marcellus Formations (Hamilton Group)	D	103	6	10	17	53	0.06	0.18	0.69
	N	29	20	65	175	15	0.23	1.1	2.5
Onondaga and Old Port Formations	D	6	-	10	-	4	-	0.16	-
	N	9	-	122	-	6	-	3.5	-
Keyser and Tonoloway Formations	D	16	10	14	28	7	-	0.53	-
	N	7	-	80	-	6	-	2.1	-

Notes:
(1) D = Domestic, N = Nondomestic
(2) Percent of wells that have values less than or equal to the value show

Table 2.4-41 {Specific Capacities of Wells in the Berwick-Bloomsburg-Danville Area, Pennsylvania}

Geologic unit	No. of Wells	Median Well Depth (ft) (1)	Specific Capacity (gpm/ft)			
			Percentile (2)			Range
			25th	50th	75th	
Glacial outwash	10	66	3.7	11	19	1.4-84
Catskill Formation	15	165	0.16	0.39	1.2	0.08-3.8
Trimmers Rock Formation	8	200	0.06	0.13	0.37	0.03-0.55
Harrell and Mahantango Formations	16	263	0.06	0.27	0.79	0.03-2.5
Marcellus Formation	15	255	0.07	0.19	0.5	0.03-18
Onondaga and Old Port Formations	13	259	1.2	3.2	9.3	0.47-350
Keyser and Tonoloway Formations	18	205	1.6	4.6	20	0.35-280
Shale	35	268	0.07	0.23	0.5	0.03-18
Sandstone and shale	23	200	0.12	0.22	0.55	0.03-3.8
Sandstone, limestone, and shale	11	250	0.07	0.13	0.8	0.03-1.4
Carbonate rock and shale	28	202	1.5	3.1	5.5	0.23-250
Carbonate rock	18	205	1.6	4.6	20	0.35-280

Notes:
(1) Feet below land surface
(2) Percent of wells that have values less than or equal to the value shown

Table 2.4-42 {Effect of Lithology on Well Yields, Berwick-Bloomsburg - Danville Area, Pennsylvania}

Aquifer	Well Type (1)	No. of Wells	Median Well Depth (ft)(2)	Reported Well Yield (gpm)			
				Percentile (3)			Range
				25th	50th	75th	
Sand and gravel	D	4	44	-	20	-	15-50
	N	8	58	-	40	-	18-100
Shale	D	168	122	5	10	15	0.5-50
	N	31	300	8	15	50	1-225
Sandstone and shale	D	163	150	6	8	10	0.5-60
	N	19	300	20	32	64	3-100
Sandstone, limestone and shale	D	31	191	5	10	20	2-50
	N	7	305	-	93	-	10-300
Carbonate rock and shale	D	63	110	6	12	20	2-100
	N	22	224	23	38	49	20-184
Carbonate rock	D	28	165	10	20	30	3-150
	N	14	280	65	160	383	24-900

Notes:
(1) D = Domestic, N = Nondomestic
(2) Feet below land surface
(3) Percent of wells that have values less than or equal to the value shown

Table 2.4-43 {Computed Water Budget Components for Selected Drainage Basins in the North Branch Susquehanna River Basin, Pennsylvania}

Watershed	Period of Data	Water Budget Components (in/yr)				Source of Data
		Precipitation (P)	Surface Runoff (S_r)	Groundwater Discharge (R_g)	Evapotranspiration (ET)	
Towanda Creek Basin	1961-1980	35.10 (26.21-44.47)	7.82 (1.98-16.44)	10.34 (5.05-16.26)	16.94 (10.71-24.28)	Taylor, 1984
Wapwallopen Creek Basin	1961-1980	43.87 (32.04-64.48)	5.94 (3.69-11.77)	14.20 (6.60-21.81)	23.73 (16.57-41.85)	Taylor, 1984
Tunkhannock Creek Basin	1961-1980	42.69 (34.41-52.74)	7.35 (2.14-11.28)	11.98 (5.65-18.43)	23.36 (16.68-28.03)	Taylor, 1984
East Branch Chillisquaque Creek	1963-1966	33.3	11.4(1)		21.9	Williams, 1987
East Branch Chillisquaque Creek	1972-1975	50.3	27.1(1)		22.8	Williams, 1987
Fishing Creek	1963-1966	33.3	17.4(2)		15.9	Williams, 1987
Fishing Creek	1972-1975	50.3	31.9(2)		18.4	Williams, 1987

Notes:
(1) Number represents total runoff (surface water and ground water combined). Ground water is approximately 44% of the total runoff.
(2) Number represents total runoff (surface water and groundwater combined). Ground water is approximately 63% of the total runoff

Table 2.4-44 {BBNPP Monitoring Wells and Construction Details}

Monitoring Well ID	Corresponding Geotechnical Boring	Northing[(1)] (ft)	Easting[(1)] (ft)	Ground Surface Elevation[(2)] (ft msl)	Top of Casing Elevation[(2)] (ft msl)	Boring Depth (ft bgs)	Well Depth (ft bgs)	Screen Diameter & Slot Size (in)	Screen Interval Depth		Screen Interval Elevation[(2)]		Filterpack Interval Depth	
									Top (ft bgs	Bottom (ft bgs	Top (ft bgs	Bottom (ft bgs	Top (ft bgs	Bottom (ft bgs
Glacial Overburden Wells														
MW301A	NA	339097.635	2405396.729	662.48	664.54	36.5	36.5	4.0 / 0.01	21.5	36.5	640.98	625.98	13.0	21.5
MW302A1	NA	339410.169	2406939.741	665.18	667.41	35.2	35.15	4.0 / 0.01	20.0	35.0	645.18	630.18	17.0	35.15
MW302A2	NA	339410.073	2406925.672	665.25	667.42	35.3	35.34	4.0 / 0.01	20.0	35.0	645.25	630.25	11.0	35.34
MW302A3	NA	339410.156	2406899.922	665.34	667.70	35.7	35.71	4.0 / 0.01	20.7	35.7	644.64	629.64	11.0	35.71
MW302A4	NA	339495.305	2406939.417	665.56	667.70	39.0	37.6	4.0 / 0.01	22.5	37.5	643.06	628.06	12.0	39.0
MW303A	NA	341504.719	2405505.308	734.13	736.18	28.0	28.0	4.0 / 0.01	18.0	28.0	716.13	706.13	12.0	28.0
MW304A	NA	340228.157	2408455.377	680.61	682.65	37.0	37.0	4.0 / 0.01	17.0	37.0	663.61	643.61	17.0	37.0
MW305A1	NA	341896.434	2407090.850	715.30	717.35	43.0	43.0	4.0 / 0.01	23.0	43.0	692.30	672.30	18.0	43.0
MW305A2	NA	341888.613	2407096.810	714.64	717.01	83.0	76.0	2.0 / 0.01	56.0	76.0	658.64	638.64	51.0	76.0
MW306A	NA	338899.631	2404351.670	662.46	664.67	38.0	38.0	4.0 / 0.01	23.0	38.0	639.46	624.46	11.0	38.0
MW307A	NA	337632.513	2407085.991	688.60	690.96	37.0	37.0	4.0 / 0.01	22.0	37.0	666.60	651.60	12.0	37.0
MW308A	NA	338355.504	2405979.804	661.38	663.42	33.5	33.5	4.0 / 0.01	13.5	33.5	647.88	627.88	12.0	33.5
MW309A	NA	338707.942	2408989.197	673.33	675.62	20.9	20.9	4.0 / 0.01	10.8	20.8	652.53	662.53	6.0	20.9
MW310A	NA	339453.777	2405156.296	674.48	676.73	21.0	19.2	4.0 / 0.01	9.2	19.2	665.28	655.28	8.0	19.2
Shallow Bedrock Wells														
MW301B1	NA	339098.941	2405384.283	662.40	664.39	162.0	160.0	4.0 / 0.01	130.0	160.0	532.40	502.40	105.0	162.0
MW301B2	B303	339142.987	2405338.529	664.18	666.48	151.0	150.0	1.5 / 0.01	130.0	150.0	534.18	514.18	126.0	151.0
MW301B3	B308	339069.298	2405288.632	662.41	664.61	100.0	100.0	1.5 / 0.01	80.0	100.0	582.14	562.41	75.0	100.0
MW301B4	B310	338987.788	2405444.974	658.46	660.51	102.0	100.0	1.5 / 0.01	80.0	100.0	578.46	558.46	74.0	100.0
MW303B	NA	341504.607	2405493.422	733.53	735.65	97.0	97.0	2.0 / 0.01	77.0	97.0	656.53	636.53	65.0	97.0
MW304B	NA	340245.014	2408443.451	681.27	683.09	181.0	181.0	2.0 / 0.01	161.0	181.0	520.27	500.27	151.0	181.0
MW305B	NA	341880.508	2407108.086	714.10	716.19	140.0	140.0	2.0 / 0.01	120.0	140.0	574.10	594.10	110.0	140.0
MW308B	NA	338356.711	2405969.620	661.00	663.36	79.4	79.4	2.0 / 0.01	59.0	79.0	602.00	582.00	54.4	79.4
MW309B	NA	338708.711	2408999.087	673.16	675.31	160.0	160.0	2.0 / 0.01	140.0	160.0	533.16	513.16	129.0	160.0
MW310B	B326	339454.708	2405176.410	675.31	678.04	90.4	90.0	2.0 / 0.01	70.0	90.0	605.31	585.31	55.0	90.4
MW311B	B325	339328.285	2405252.941	668.90	671.29	100.5	100.0	1.5 / 0.01	80.0	100.0	588.90	568.90	75.0	100.0
MW312B	B315	338820.623	2405297.698	656.90	659.00	100.0	100.0	1.5 / 0.01	85.0	100.0	571.90	556.90	75.0	100.0
MW313B	B323	338927.919	2405815.577	657.68	659.97	100.0	100.0	1.5 / 0.01	80.0	100.0	577.68	557.68	70.0	100.0
MW313C[(3)]	B322	338922.541	2405754.786	657.24	659.42	200.0	130.0	1.0 / 0.01	110.0	130.0	547.24	527.24	100.0	130.0
MW315B	B338	340738.303	2406234.464	720.08	719.82	70.0	70.0	1.5 / 0.01	50.0	70.0	670.08	650.08	45.0	70.0
MW316B	B340	340298.177	2406433.929	702.37	702.08	80.0	80.0	1.0 / 0.01	60.0	80.0	642.37	622.37	55.0	80.0
MW317B	B333	339772.487	2406401.475	681.17	683.30	100.0	70.0	1.0 / 0.01	50.0	70.0	631.17	611.17	45.0	70.0

Table 2.4-44 {BBNPP Monitoring Wells and Construction Details}

Monitoring Well ID	Corresponding Geotechnical Boring	Northing[1] (ft)	Easting[1] (ft)	Ground Surface Elevation[2] (ft msl)	Top of Casing Elevation[2] (ft msl)	Boring Depth (ft bgs)	Well Depth (ft bgs)	Screen Diameter & Slot Size (in)	Screen Interval Depth		Screen Interval Elevation[2]		Filterpack Interval Depth	
									Top (ft bgs	Bottom (ft bgs	Top (ft bgs	Bottom (ft bgs	Top (ft bgs	Bottom (ft bgs
MW318B	B335	340493.179	2405516.324	801.32	803.79	70.0	70.0	1.0 / 0.01	50.0	70.0	751.32	731.32	40.0	70.0
MW319B	B337	340239.458	2405528.135	790.57	793.04	100.0	100.0	1.0 / 0.01	80.0	100.0	710.57	690.57	60.0	100.0
Deep Bedrock Wells														
MW301C	B301	339151.791	2405430.679	666.38	NA	400.0	400.0	1.0 /0.01	400.0	370.0	NA	NA	400.0	375.0
MW302B[4]	NA	339409.882	2406954.167	665.29	667.42	215.0	215.0	2.0 / 0.01	195.0	215.0	470.29	450.29	165.0	215.0
MW303C	NA	341503.537	2405483.363	732.94	734.98	250.0	250.0	2.0 / 0.01	230.0	250.0	502.94	482.94	181.0	250.0
MW304C	NA	340236.492	2408449.592	680.57	682.44	600.0	400.0	2.0 / 0.01	360.0	400.0	320.57	280.57	340.0	400.0
MW306C	NA	338889.031	2404353.483	662.47	664.70	335.0	330.0	2.0 / 0.01	280.0	330.0	382.47	332.47	270.0	330.0
MW307B[4]	NA	337632.749	2407096.694	688.33	690.85	270.0	270.0	2.0 / 0.01	250.0	270.0	438.33	418.33	200.0	270.0
MW310C	B327	339452.089	2405233.062	675.38	678.35	201.0	199.5	2.0 / 0.01	169.5	199.5	505.88	475.88	159.5	199.5
MW311C	B306	339313.213	2405413.688	669.07	671.18	203.0	203.0	1.5 / 0.01	183.0	203.0	466.07	486.07	178.0	203.0

(1) Horizontal Datum NAD83 State Plane feet
(2) Vertical Datum NAVD88 feet
(3) Well MW313C grouped with Shallow Bedrock Wells because well screen is only 130 ft bgs.
(4) Wells MW302B and MW307B were grouped with Deep Bedrock Wells because water-producing zones were not detected in shallow bedrock and, as a result, the wells were installed deeper than originally planned.

Table 2.4-45 {Monthly Ground Water Elevation Measurements, BBNPP}

(Page 1 of 2)

Monitoring Well ID	Elevation (ft msl)(1)		Depth To Ground Water (ft btor)(2)											
	Ground Surface	Top of Casing Reference Point	October 31, 2007	November 29, 2007	November 29, 2007	January 26, 2008	February 25, 2008	March 24, 2008	April 14, 2008	May 20, 2008	June 9, 2008	July 23, 2008	August 12, 2008	September 4, 2008
Overburden Wells														
MW301A	662.48	664.54	8.83	6.88	7.01	6.86	5.78	5.21	6.46	7.16	7.68	8.75	8.87	9.51
MW302A1	665.18	667.41	9.03	6.67	6.60	5.84	4.46	3.56	5.32	6.54	7.29	8.85	9.05	9.55
MW302A2	665.25	667.42	9.04	6.67	6.60	5.84	4.47	3.58	5.32	6.57	7.30	8.86	9.06	9.56
MW302A3	665.34	667.70	9.33	6.97	6.90	6.17	4.79	3.91	5.67	6.90	7.63	6.19	9.39	9.89
MW302A4	665.56	667.70	9.33	6.95	6.90	6.13	4.73	3.84	5.99	6.84	7.57	9.13	9.33	9.83
MW303A	734.13	736.18	22.85	21.56	22.00	21.86	20.22	19.07	21.36	21.25	21.77	22.64	22.39	23.05
MW304A	680.61	682.65	13.91	12.33	12.06	11.6	10.92	10.49	11.24	11.73	12.57	13.58	13.65	14.38
MW305A1	715.30	717.35	12.65	11.41	11.24	10.49	8.92	9.34	10.39	10.60	11.39	12.49	12.54	13.05
MW305A2	714.64	717.01	12.38	11.25	11.11	10.57	9.36	9.78	10.60	10.81	11.53	12.43	12.43	12.96
MW306A	662.46	664.67	9.58	8.01	8.45	8.74	7.82	7.60	8.75	9.00	9.57	10.26	10.22	10.84
MW307A	688.60	690.96	6.21	4.86	4.95	6.31	5.41	5.14	5.13	4.46	6.74	6.92	7.62	9.16
MW308A	661.38	663.42	8.07	6.63	6.90	7.21	6.49	6.40	7.02	7.11	7.79	8.39	8.46	9.30
MW309A	673.33	675.62	8.39	5.78	6.00	6.37	5.05	5.05	6.37	6.61	8.43	11.36	10.54	10.98
MW310A	674.48	676.73	19.33	17.22	17.55	17.48	16.09	15.64	17.36	18.36	18.83	19.84	19.97	20.33
Shallow Bedrock Wells														
MW301B1	662.40	664.39	6.92	4.62	4.95	5.02	3.96	3.77	5.10	5.46	6.03	6.89	6.93	7.46
MW301B2	664.18	666.48	10.35	8.77	8.90	5.79	7.72	7.20	8.56	9.10	9.62	10.65	10.78	11.43
MW301B3	662.41	664.61	10.41	7.21	7.38	7.39	6.39	5.97	7.16	7.57	8.09	5.98	9.10	9.75
MW301B4	658.46	660.51	10.81	2.67	2.92	2.71	1.35	1.53	2.69	3.14	3.75	4.66	4.73	5.41
MW303B	733.53	735.65	18.50	15.48	17.10	18.01	15.54	15.38	17.76	16.98	18.84	19.97	19.56	20.49
MW304B	681.27	683.09	14.48	13.02	12.85	12.49	12.14	11.53	12.16	12.60	13.43	14.60	13.82	14.34
MW305B	714.10	716.19	11.57	10.51	10.37	9.84	8.65	9.10	9.89	10.07	10.79	11.64	11.67	12.19
MW308B	661.00	663.36	68.50	66.45	65.57	62.88	69.23	74.67	73.40	75.98	74.85	72.52	75.72	74.58
MW309B	673.16	675.31	9.75	7.84	8.15	8.70	8.16	7.98	8.74	9.21	10.33	11.44	10.79	12.14
MW310B	675.31	678.04	16.35	13.81	14.01	13.23	11.71	11.80	13.33	13.68	14.29	15.22	15.15	15.47

Table 2.4-45 {Monthly Ground Water Elevation Measurements, BBNPP}

(Page 2 of 2)

Monitoring Well ID	Elevation (ft msl)[1]		Depth To Ground Water (ft btor)[2]											
	Ground Surface	Top of Casing Reference Point	October 31, 2007	November 29, 2007	November 29, 2007	January 26, 2008	February 25, 2008	March 24, 2008	April 14, 2008	May 20, 2008	June 9, 2008	July 23, 2008	August 12, 2008	September 4, 2008
MW311B	668.90	671.29	14.34	11.71	11.98	11.82	10.54	10.12	11.73	12.61	13.13	14.40	14.58	15.19
MW312B	656.90	659.00	8.88	2.40	2.53	2.01	1.30	0.80	2.30	2.61	3.17	4.00	4.02	4.66
MW313B	657.68	659.97	4.15	2.20	2.34	1.73	0.65	0.00	1.98	2.36	3.10	4.04	4.16	4.90
MW313C	657.24	659.42	NA	1.55	0.65	1.18	1.66	1.41	1.58	131.91	130.10	126.11	NR	122.08
MW315B	720.09	719.82	NA	2.15	2.17	1.15	0.55	0.03	1.77	2.07	2.73	3.76	3.84	4.17
MW316B	702.37	702.08	NA	9.84	9.98	8.54	7.36	8.30	8.96	7.81	8.87	10.72	10.77	11.43
MW317B	681.17	683.30	NA	23.24	23.20	22.52	21.23	20.39	22.10	23.33	23.90	25.42	25.60	26.15
MW318B	801.32	803.79	NA	53.57	53.51	44.64	42.40	42.75	45.36	45.18	46.61	49.50	48.22	52.60
MW319B	790.57	793.04	NA	87.14	83.66	73.85	70.38	71.33	74.19	74.77	76.42	79.52	79.85	81.02
Deep Bedrock Wells														
MW301C[3]	668.38	668.79	(3)	(3)	(3)	(3)	(3)	(3)	(3)	6.78	4.03	4.82	5.04	5.41
MW302B[4,5]	665.29	667.42	0.74	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
MW303C	732.94	734.98	31.08	28.64	29.90	30.80	29.27	30.28	32.98	33.64	35.22	36.90	35.86	36.26
MW304C	680.57	682.44	NA	15.47	13.75	12.01	11.72	11.30	11.85	12.01	12.57	13.81	14.51	15.19
MW306C	662.47	664.70	9.00	7.40	7.80	7.91	6.98	6.88	8.01	7.55	7.47	8.22	8.22	8.64
MW307B[4]	688.33	690.85	79.30	72.12	69.70	63.99	55.72	53.33	63.91	68.58	70.62	78.60	78.52	79.90
MW310C[5]	675.38	678.35	NA	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
MW311C	669.07	671.18	NR	147.64	146.34	142.37	139.67	137.03	135.20	131.91	130.10	126.11	NR	122.08

Table 2.4-45—{Monthly Ground Water Elevation Measurements, BBNPP}

(Page 1 of 2)

Monitoring Well ID	Elevation (ft msl)(1)		Ground Water Elevation (ft btor)(2)											
	Ground Surface	Top of Casing Reference Point	October 31, 2007	November 29, 2007	November 29, 2007	January 26, 2008	February 25, 2008	March 24, 2008	April 14, 2008	May 20, 2008	June 9, 2008	July 23, 2008	August 12, 2008	September 4, 2008
MW301C(3)	668.38	668.79	(3)	(3)	(3)	(3)	(3)	(3)	(3)	6.78	4.03	4.82	5.04	5.41
MW302B(4,5)	665.29	667.42	0.74	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
MW303C	732.94	734.98	31.08	28.64	29.90	30.80	29.27	30.28	32.98	33.64	35.22	36.90	35.86	36.26
MW304C	680.57	682.44	NA	15.47	13.75	12.01	11.72	11.30	11.85	12.01	12.57	13.81	14.51	15.19
MW306C	662.47	664.70	9.00	7.40	7.80	7.91	6.98	6.88	8.01	7.55	7.47	8.22	8.22	8.64
MW307B(4)	688.33	690.85	79.30	72.12	69.70	63.99	55.72	53.33	63.91	68.58	70.62	78.60	78.52	79.90
MW310C(5)	675.38	678.35	NA	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
MW311C	669.07	671.18	NR	147.64	146.34	142.37	139.67	137.03	135.20	131.91	130.10	126.11	NR	122.08
Overburden Wells														
MW301A	662.48	664.54	655.71	657.66	657.53	657.68	658.76	659.33	658.08	657.38	656.86	655.79	655.67	655.03
MW302A1	665.18	667.41	658.38	660.74	660.81	661.57	662.95	663.85	662.09	660.87	660.12	658.56	658.36	657.86
MW302A2	665.25	667.42	658.38	660.75	660.82	661.58	662.95	663.84	662.10	660.85	660.12	658.56	658.36	657.86
MW302A3	665.34	667.70	658.37	660.73	660.80	661.53	662.91	663.79	662.03	660.80	660.07	661.51	658.31	657.81
MW302A4	665.56	667.70	658.37	660.75	660.80	661.57	662.97	663.86	661.71	660.86	660.13	658.57	658.37	657.87
MW303A	734.13	736.18	713.33	714.62	714.18	714.32	715.96	717.11	714.82	714.93	714.41	713.54	713.79	713.13
MW304A	680.61	682.65	668.74	670.32	670.59	671.05	671.73	672.16	671.41	670.92	670.08	669.07	669.00	668.27
MW305A1	715.30	717.35	704.70	705.94	706.11	706.86	708.43	708.01	706.96	706.75	705.96	704.86	704.81	704.30
MW305A2	714.64	717.01	704.63	705.76	705.90	706.44	707.65	707.23	706.41	706.20	705.48	704.58	704.58	704.05
MW306A	662.46	664.67	655.09	656.66	656.22	655.93	656.85	657.07	655.92	655.67	655.10	654.41	654.45	653.83
MW307A	688.60	690.96	684.75	686.10	686.01	684.65	685.55	685.82	685.83	686.50	684.22	684.04	683.34	681.80
MW308A	661.38	663.42	655.35	656.79	656.52	656.21	656.93	657.02	656.40	656.31	655.63	655.03	654.96	654.12
MW309A	673.33	675.62	667.23	669.84	669.62	669.25	670.57	670.57	669.25	669.01	667.19	664.26	665.08	664.64
MW310A	674.48	676.73	657.40	659.51	659.18	659.25	660.64	661.09	659.37	658.37	657.90	656.89	656.76	656.40
Shallow Bedrock Wells														
MW301B1	662.40	664.39	657.47	659.77	659.44	659.37	660.43	660.62	659.29	658.93	658.36	657.50	657.46	656.93
MW301B2	664.18	666.48	656.13	657.71	657.58	660.69	658.76	659.28	657.92	657.38	656.86	655.83	655.70	655.05

Table 2.4-45—{Monthly Ground Water Elevation Measurements, BBNPP}

(Page 2 of 2)

Monitoring Well ID	Elevation (ft msl)[1]		Ground Water Elevation (ft btor)[2]											
	Ground Surface	Top of Casing Reference Point	October 31, 2007	November 29, 2007	November 29, 2007	January 26, 2008	February 25, 2008	March 24, 2008	April 14, 2008	May 20, 2008	June 9, 2008	July 23, 2008	August 12, 2008	September 4, 2008
MW301B3	662.41	664.61	654.20	657.40	657.23	657.22	658.22	658.64	657.45	657.04	656.52	658.63	655.51	654.86
MW301B4	658.46	660.51	649.70	657.84	657.59	657.80	659.16	658.98	657.82	657.37	656.76	655.85	655.78	655.10
MW303B	733.53	735.65	717.15	720.17	718.55	717.64	720.11	720.27	717.89	718.67	716.81	715.68	716.09	715.16
MW304B	681.27	683.09	668.61	670.07	670.24	670.60	670.95	671.56	670.93	670.49	669.66	668.49	669.27	668.75
MW305B	714.10	716.19	704.62	705.68	705.82	706.35	707.54	707.09	706.30	706.12	705.40	704.55	704.52	704.00
MW308B	661.00	663.36	594.86	596.91	597.79	600.48	594.13	588.69	589.96	587.38	588.51	590.84	587.64	588.78
MW309B	673.16	675.31	665.56	667.47	667.16	666.61	667.15	667.33	666.57	666.10	664.98	663.87	664.52	663.17
MW310B	675.31	678.04	661.69	664.23	664.03	664.81	666.33	666.24	664.71	664.36	663.75	662.82	662.89	662.57
MW311B	668.90	671.29	656.95	659.58	659.31	659.47	660.75	661.17	659.56	658.68	658.16	656.89	656.71	656.10
MW312B	656.90	659.00	650.12	656.60	656.47	656.99	657.70	658.20	656.70	656.39	655.83	655.00	654.98	654.34
MW313B	657.68	659.97	655.82	657.77	657.63	658.24	659.32	659.97	657.99	657.61	656.87	655.93	655.81	655.07
MW313C	657.24	659.42	NA	657.87	658.77	658.24	657.76	658.01	657.84	527.51	529.32	533.31	NR	537.34
MW315B	720.09	719.82	NA	717.67	717.65	718.67	719.27	719.79	718.05	717.75	717.09	716.06	715.98	715.65
MW316B	702.37	702.08	NA	692.24	692.10	693.54	694.72	693.78	693.12	694.27	693.21	691.36	691.31	690.65
MW317B	681.17	683.30	NA	660.06	660.10	660.78	662.07	662.91	661.20	659.97	659.40	657.88	657.70	657.15
MW318B	801.32	803.79	NA	750.22	750.28	759.15	761.39	761.04	758.43	758.61	757.18	754.29	755.57	751.19
MW319B	790.57	793.04	NA	705.90	709.38	719.19	722.66	721.71	718.85	718.27	716.62	713.52	713.19	712.02
Deep Bedrock Wells														
MW301C(3)	668.38	668.79	(3)	(3)	(3)	(3)	(3)	(3)	(3)	662.01	664.76	663.97	663.75	663.38
MW302B(4,5)	665.29	667.42	666.68	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
MW303C	732.94	734.98	703.90	706.34	705.08	704.18	705.71	704.70	702.00	701.34	699.76	698.08	699.12	698.72
MW304C	680.57	682.44	NA	666.97	668.69	670.43	670.72	671.14	670.59	670.43	669.87	668.63	667.93	667.25
MW306C	662.47	664.70	655.70	657.30	656.90	656.79	657.72	657.82	656.69	657.15	657.23	656.48	656.48	656.06
MW307B(4)	688.33	690.85	611.55	618.73	621.15	626.86	635.13	637.52	626.94	622.27	620.23	612.25	612.33	610.95
MW310C(5)	675.38	678.35	NA	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
MW311C	669.07	671.18	NR	523.54	524.84	528.81	531.51	534.15	535.98	539.27	541.08	545.07	NR	549.10

Table 2.4-46 {Monthly Surface Water Elevation Measurements, BBNPP}

(Page 1 of 2)

Gauging Station ID	Surveyed Elevation Point (ft)	October 31, 2007	November 29, 2007	December 13, 2007	January 28, 2008	February 29, 2008	March 25, 2008	April 15, 2008	May 21, 2008	June 10, 2008	July 23, 2008	August 12, 2008	September 4, 2008
Depth to Water (ft)													
Stream Gauges													
G1	670.97	7.67	8.77	11.58	8.88	8.67	8.69	8.73	8.73	9.00	8.99	8.93	9.12
G2	656.81	NM	9.56	9.60	10.24	9.83	9.81	10.63	9.92	10.57	10.28	10.43	10.77
G3	729.20	NM	6.70	6.75	6.73	6.71	9.66	6.75	6.60	6.75	6.75	6.78	NM
G5	608.10	6.53	NR	6.40	6.33	6.15	6.20	6.25	6.33	6.44	3.35	6.30	NM
G10	529.77	NM	NM	11.38	9.00	8.75	NM	11.57	11.42	11.50	11.49	11.52	11.61
G12	661.25	NM	NM	NM	NM	NM	NM	0.51	0.58	0.36	1.34	0.44	0.34
G13	649.12	NM	NM	NM	NM	NM	10.3	10.50	10.41	10.89	10.24	10.76	11.04
Pond Gauges													
G6	714.27	1.00	0.80	2.10	2.32	2.50	2.82	2.44	2.06	1.74	1.17	1.08	0.68
G7	687.52	0.82	0.78	0.71	0.36	0.30	0.44	0.90	1.14	1.08	0.95	1.26	0.40
G8	656.62	0.54	0.84	0.99	0.72	0.09	0.98	1.22	1.40	1.40	0.09	0.80	0.58
G9	667.75	1.03	1.58	1.59	1.57	2.10	2.18	1.00	2.02	1.74	1.40	1.42	1.11
Water Elevation (ft msl)													
Stream Gauges													
G1	670.97	663.30	662.20	659.39	662.09	662.30	662.28	662.24	662.24	661.97	661.98	662.04	661.85
G2	656.81	NM	647.25	647.21	646.57	646.98	647.00	646.18	646.89	646.24	646.53	646.38	646.04
G3	729.20	NM	722.50	722.45	722.47	722.49	719.54	722.45	722.60	722.45	722.45	722.42	NF
G5	608.10	601.57	NM	601.70	601.77	601.95	601.90	601.85	601.77	601.66	604.75	601.80	NF
G10	529.77	NM	NM	518.39	520.77	521.02	NM	518.20	518.35	518.27	518.28	518.25	518.16
G12	649.12	NM	NM	NM	NM	NM	638.82	638.62	638.71	638.23	638.88	638.36	638.08
G13	661.25	NM	NM	NM	NM	NM	NM	658.46	658.53	658.31	659.29	658.39	658.29

Table 2.4-46 {Monthly Surface Water Elevation Measurements, BBNPP}

(Page 2 of 2)

Gauging Station ID	Surveyed Elevation Point (ft)	October 31, 2007	November 29, 2007	December 13, 2007	January 28, 2008	February 29, 2008	March 25, 2008	April 15, 2008	May 21, 2008	June 10, 2008	July 23, 2008	August 12, 2008	September 4, 2008
Pond Gauges													
G6	714.27	711.97	711.77	713.07	713.29	713.47	713.79	713.41	713.03	712.71	712.14	712.05	711.65
G7	687.52	685.04	685.00	684.93	684.58	684.52	684.66	685.12	685.36	685.30	685.17	685.48	684.62
G8	656.62	653.86	654.16	654.31	654.04	653.41	654.30	654.54	654.72	654.72	653.41	654.12	653.90
G9	667.75	665.48	666.03	666.04	666.02	666.55	666.63	665.45	666.47	666.19	665.85	665.87	665.56

msl = mean sea level
NM = No Measurement
NF = No Flow

Table 2.4-47 {Water Use in the Upper Susquehanna River Basin, Pennsylvania, in 1970}

Type of Use	Withdrawals					
	Ground Water		Surface Water		Total	
	million gpd	lpd	million gpd	lpd	million gpd	lpd
Public Supply	13.1	4.95E+07	99.5	3.76E+08	112.6	4.26E+08
Domestic Supply	8.3	3.14E+07	0.0	0.00E+00	8.3	3.14E+07
Industrial	8.1	3.06E+07	34.0	1.29E+08	42.1	1.59E+08
Mineral	10.3	3.89E+07	5.5	2.08E+07	15.8	5.97E+07
Agricultural	3.6	1.36E+07	2.0	7.56E+06	5.6	2.12E+07
Golf Course	0.2	7.56E+05	1.0	3.78E+06	1.2	4.54E+06
Institutional	0.6	2.27E+06	0.4	1.51E+06	1.0	3.78E+06
Power	0.0	0.00E+00	120.9	4.57E+08	120.9	4.57E+08
Totals	44.2	1.67E+08	263.3	9.95E+08	307.5	1.16E+09

gpd = gallons per day
lpd = liters per day
Reference: Taylor, 1984

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

(Page 1 of 23)

PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
92407	ALBERTSON R	1/1/1966	COLUMBIA	41.09083	-76.25778	115	OPEN HOLE	15		30.00	DOMESTIC
92367	ALBERTSON T	11/17/1982	COLUMBIA	41.08556	-76.25139	122	OPEN HOLE	5	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
14148	ANDREZZI, LEW	3/17/1969	COLUMBIA	41.04472	-76.23139	125	OPEN HOLE	10		0.00	DOMESTIC
14283	BECK, JACK	8/3/1973	COLUMBIA	41.10222	-76.23611	175	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
92309	BERWICK WATER C		COLUMBIA	41.05444	-76.23167	160	OPEN HOLE	500		0.00	PUBLIC SUPPLY
92310	BERWICK WATER C		COLUMBIA	41.05417	-76.23222	90	OPEN HOLE	500		0.00	PUBLIC SUPPLY
92311	BERWICK WATER C		COLUMBIA	41.05389	-76.23278	87	OPEN HOLE	500		0.00	PUBLIC SUPPLY
14287	CARRATHERS MARTIN	9/21/1972	COLUMBIA	41.10306	-76.23000	100	OPEN HOLE	8	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
14288	CARRATHERS WILLIAM	9/18/1972	COLUMBIA	41.10389	-76.23056	105	OPEN HOLE	8	VOLUMETRIC, WATCH & BUCKET	65.00	DOMESTIC
92422	COLLINS E	1/1/1970	COLUMBIA	41.09250	-76.25500	185	OPEN HOLE	10		0.00	DOMESTIC
14272	COLLINS, EUGENE A	2/19/1970	COLUMBIA	41.09722	-76.25333	185	OPEN HOLE	0		114.00	DOMESTIC
92306	CONSOL CIGAR CO		COLUMBIA	41.07833	-76.24111	284		0		0.00	INDUSTRIAL
92307	CONSOL CIGAR CO		COLUMBIA	41.06139	-76.24222	151		0		0.00	INDUSTRIAL
14175	CONSOLIDATED CIGAR CORP	3/12/1957	COLUMBIA	41.06139	-76.24083	284	OPEN HOLE	200	REPORTED, METHOD NOT KNOWN	0.00	AIR CONDITIONING
14176	CONSOLIDATED CIGAR CORP	4/11/1957	COLUMBIA	41.06139	-76.24194	151	OPEN HOLE	0		0.00	UNUSED
260836	Dana	11/18/1998	COLUMBIA	41.05583	-76.20750	54	SCREEN	0		0.00	OTHER
260837	Dana	11/18/1998	COLUMBIA	41.05583	-76.20750	48	SCREEN	0		0.00	OTHER
260838	Dana	11/18/1998	COLUMBIA	41.05583	-76.20750	54	SCREEN	0		0.00	OTHER
260839	Dana	11/18/1998	COLUMBIA	41.05583	-76.20750	42	SCREEN	0		0.00	OTHER

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

(Page 2 of 23)

PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
261342	Dana	11/18/1998	COLUMBIA	41.05583	-76.20750	42	SCREEN	0		0.00	OTHER
92423	DENT JACK	1/1/1973	COLUMBIA	41.09250	-76.25500	150	OPEN HOLE	12		0.00	DOMESTIC
14281	DENT, JACK W	8/2/1973	COLUMBIA	41.10056	-76.24111	150	OPEN HOLE	12	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
14265	DENT, RICHARD	3/26/1974	COLUMBIA	41.09583	-76.25917	150	OPEN HOLE	6	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
14000	DIBATTISTA JOHN	4/28/1975	COLUMBIA	41.06028	-76.25000	100	OPEN HOLE	10	TOTALING METER	35.92	DOMESTIC
14280	FULTZ, CURTIS	7/18/1972	COLUMBIA	41.10000	-76.23917	175	OPEN HOLE	16	VOLUMETRIC, WATCH & BUCKET	80.00	DOMESTIC
92425	GRASLEY HAROLD	1/1/1972	COLUMBIA	41.09250	-76.25500	150	OPEN HOLE	8		0.00	DOMESTIC
14017	HECKMAN, DREW	8/16/1968	COLUMBIA	41.07667	-76.24333	75	OPEN HOLE	12	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
14292	HESS, KENNETH L	9/12/1973	COLUMBIA	41.10639	-76.25556	100	OPEN HOLE	8	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
14254	HOFFMAN, DRUE C	10/9/1966	COLUMBIA	41.09250	-76.25500	130	OPEN HOLE	7	BAILER	65.00	DOMESTIC
92366	HOLLINGAER H	10/14/1982	COLUMBIA	41.09167	-76.25500	160	OPEN HOLE	30	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
92451	HUNSINGER DON		COLUMBIA	41.07889	-76.23667	100	OPEN HOLE	15	UNKNOWN	0.00	DOMESTIC
92360	KARC M	5/12/1983	COLUMBIA	41.10972	-76.22972	200	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
92389	KEPNER F	6/8/1981	COLUMBIA	41.07167	-76.24500	185	OPEN HOLE	40	ESTIMATED	0.00	DOMESTIC
14267	KERIS, ALEX	7/24/1975	COLUMBIA	41.09611	-76.25833	150	OPEN HOLE	7	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
420681	KEVINTANRIBIL IR	6/12/2007	COLUMBIA	41.06910	-76.25692	300	OPEN HOLE	15	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
14165	KEYSTONE WATER CO.	1/1/1957	COLUMBIA	41.05444	-76.23250	87	OPEN HOLE	1300		32.40	PUBLIC SUPPLY
14166	KEYSTONE WATER CO.	6/24/1957	COLUMBIA	41.05444	-76.23278	90	UNKNOWN	1200		30.50	PUBLIC SUPPLY
14167	KEYSTONE WATER CO.	3/29/1957	COLUMBIA	41.05500	-76.23278	160	OPEN HOLE	1300		31.90	PUBLIC SUPPLY
14019	KISHBAUGH	10/14/1975	COLUMBIA	41.07750	-76.24750	100	OPEN HOLE	0		44.10	DOMESTIC
14018	KISHBAUGH, RANDALL C	11/1/1978	COLUMBIA	41.07694	-76.24722	150	OPEN HOLE	0		31.10	DOMESTIC
92427	KISLY WALTER	1/1/1974	COLUMBIA	41.09250	-76.25500	150	OPEN HOLE	6		0.00	DOMESTIC
92444	KISLY WALTER	1/1/1974	COLUMBIA	41.08833	-76.25694	175	OPEN HOLE	10	UNKNOWN	0.00	DOMESTIC
92359	KLINESMITH D	11/23/1983	COLUMBIA	41.09583	-76.25750	177	OPEN HOLE	8	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
92385	KLINGER L	8/19/1983	COLUMBIA	41.06250	-76.25389	160	OPEN HOLE	9	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
92379	KOWALCHICK S	9/25/1980	COLUMBIA	41.07000	-76.25472	150	OPEN HOLE	0	ESTIMATED	0.00	DOMESTIC
14261	KREISCHER, GARY	2/12/1977	COLUMBIA	41.09389	-76.25056	100	OPEN HOLE	8	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
14258	KREISCHER, WILLIAM	2/12/1977	COLUMBIA	41.09361	-76.25139	100	OPEN HOLE	6	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
14011	MAGRONE, JOHN	1/1/1981	COLUMBIA	41.06806	-76.25667	30	WALLED	0		23.10	UNUSED
14012	MAGRONE, JOHN	9/25/1979	COLUMBIA	41.06806	-76.25667	67	OPEN HOLE	0		28.30	DOMESTIC
92353	MILLER P	11/6/1984	COLUMBIA	41.10250	-76.22972	275	OPEN HOLE	6	BAILER	0.00	DOMESTIC
13982	PENNDOT	1/1/1977	COLUMBIA	41.05167	-76.23111	0		0		0.00	UNUSED
13983	PENNDOT	1/1/1977	COLUMBIA	41.05167	-76.23111	0		0		0.00	UNUSED
13984	PENNDOT	1/1/1977	COLUMBIA	41.05194	-76.23139	0	UNKNOWN	0		0.00	UNUSED
13985	PENNDOT	1/1/1977	COLUMBIA	41.05222	-76.23167	0	UNKNOWN	0		0.00	UNUSED

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
13986	PENNDOT	1/1/1977	COLUMBIA	41.05222	-76.23167	0	UNKNOWN	0		0.00	UNUSED
13988	PENNDOT	1/1/1977	COLUMBIA	41.05250	-76.23194	0	UNKNOWN	0		0.00	UNUSED
13989	PENNDOT	1/1/1977	COLUMBIA	41.05278	-76.23222	0	UNKNOWN	0		0.00	UNUSED
13990	PENNDOT	1/1/1977	COLUMBIA	41.05333	-76.23278	0	UNKNOWN	0		0.00	UNUSED
13991	PENNDOT	1/1/1977	COLUMBIA	41.05361	-76.23278	0	UNKNOWN	0		0.00	UNUSED
13992	PENNDOT	1/1/1977	COLUMBIA	41.05389	-76.23306	0	UNKNOWN	0		0.00	UNUSED
13993	PENNDOT	1/1/1977	COLUMBIA	41.05417	-76.23333	0	UNKNOWN	0		0.00	UNUSED
13994	PENNDOT	1/1/1977	COLUMBIA	41.05417	-76.23333	0	UNKNOWN	0		0.00	UNUSED
14264	PERSANS, EDMUND C	7/19/1974	COLUMBIA	41.09583	-76.25833	175	OPEN HOLE	10	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
92355	RABER T	6/28/1985	COLUMBIA	41.10083	-76.23111	225	OPEN HOLE	6	ESTIMATED	0.00	DOMESTIC
14235	RICHARDS, REBA		COLUMBIA	41.08667	-76.22889	0		0		0.00	DOMESTIC
92365	ROBBINS W	9/29/1982	COLUMBIA	41.09194	-76.25944	200	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
14248	ROTHERY	5/29/1974	COLUMBIA	41.09111	-76.25806	100	OPEN HOLE	8	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
14270	SHULTZ, EDWARD A	5/6/1976	COLUMBIA	41.09639	-76.25722	175	OPEN HOLE	6	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
92424	SITLER ALLEN	1/1/1974	COLUMBIA	41.09250	-76.25500	175	OPEN HOLE	12		0.00	DOMESTIC
92421	SMITH JACK	1/1/1969	COLUMBIA	41.09250	-76.25500	135	OPEN HOLE	8		0.00	DOMESTIC
92361	VANDERMARK R	5/12/1983	COLUMBIA	41.08111	-76.23722	175	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
92453	VENCLOSKI DAVID		COLUMBIA	41.11806	-76.23694	200	OPEN HOLE	9		0.00	DOMESTIC
92452	VENCLOSKI JOSPH		COLUMBIA	41.11944	-76.23750	100	OPEN HOLE	10		0.00	DOMESTIC
92409	WALTMAN H J	1/1/1966	COLUMBIA	41.08528	-76.25750	130	OPEN HOLE	7	UNKNOWN	65.00	DOMESTIC
92406	WHITMYER VERNON	1/1/1967	COLUMBIA	41.09444	-76.25500	150	OPEN HOLE	6		0.00	DOMESTIC

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
92398	WOLFINGER	1/1/1967	COLUMBIA	41.09972	-76.24444	120	OPEN HOLE	6	UNKNOWN	30.00	DOMESTIC
92382	YALCH A	7/25/1980	COLUMBIA	41.10111	-76.25417	150	OPEN HOLE	7	ESTIMATED	0.00	DOMESTIC
14121	YODER, RICHARD L	11/22/1974	COLUMBIA	41.03389	-76.22972	100	OPEN HOLE	6	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
92426		1/1/1969	COLUMBIA	41.09250	-76.25500	150	OPEN HOLE	8		0.00	DOMESTIC
182729	BEACH HAVEN FIR	1/1/1973	LANCASTER	41.06806	-76.16167	100	OPEN HOLE	12	UNKNOWN	40.00	
182732	BRADER HERB	1/1/1972	LANCASTER	41.08944	-76.18056	100	OPEN HOLE	12	UNKNOWN	0.00	DOMESTIC
182730	MOLYNEAUX SHLDN	1/1/1974	LANCASTER	41.06917	-76.16639	50	OPEN HOLE	15	UNKNOWN	0.00	DOMESTIC
182731	VARNER ARTHUR	1/1/1974	LANCASTER	41.08583	-76.19250	125	OPEN HOLE	7	UNKNOWN	0.00	DOMESTIC
128988	ADAMS A	5/1/1988	LUZERNE	41.04417	-76.18389	360	OPEN HOLE	15	BAILER	85.00	DOMESTIC
25327	ADAMS, MARK	3/27/1974	LUZERNE	41.03361	-76.18028	230	OPEN HOLE	18	VOLUMETRIC, WATCH & BUCKET	30.00	DOMESTIC
128823	ARNER GENNY	9/1/1987	LUZERNE	41.07361	-76.10111	300	OPEN HOLE	4	ESTIMATED	0.00	DOMESTIC
25333	ATEN, TOM	7/17/1974	LUZERNE	41.03611	-76.17472	125	OPEN HOLE	8	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
128995	AUDIMATION	4/1/1988	LUZERNE	41.05278	-76.16556	240	OPEN HOLE	20		60.00	INDUSTRIAL
25486	B. GENSEL	6/1/1977	LUZERNE	41.13083	-76.22778	175	OPEN HOLE	6	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
128820	BADMAN RON	7/17/1974	LUZERNE	41.06611	-76.10222	510		1	ESTIMATED	0.00	DOMESTIC
129225	BAER RUSSEL		LUZERNE	41.10472	-76.15611	125	OPEN HOLE	10	UNKNOWN	0.00	DOMESTIC
25474	BAER, RUSSEL	7/8/1975	LUZERNE	41.11306	-76.16361	125	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
129140	BAKER W	11/25/1981	LUZERNE	41.08056	-76.18861	325	OPEN HOLE	5	ESTIMATED	0.00	DOMESTIC
25516	BALSHAMER,JAKE	10/7/1930	LUZERNE	41.15889	-76.15611	47	OPEN END	0		7.00	DOMESTIC
129149	BANKES R	1/5/1984	LUZERNE	41.15000	-76.16278	150	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
129190	BCH HVN FIRE CO		LUZERNE	41.06806	-76.16167	100	OPEN HOLE	12	UNKNOWN	40.00	DOMESTIC
129187	BEACH HAV COM	1/1/1968	LUZERNE	41.06722	-76.16972	51	OPEN HOLE	40	UNKNOWN	12.00	DOMESTIC
25377	BEACH HAVEN COMMTY. BD	10/21/1968	LUZERNE	41.06722	-76.17167	51	OPEN HOLE	40		12.00	DOMESTIC
25380	BEACH HAVEN FIRE	4/13/1973	LUZERNE	41.06806	-76.16167	100	OPEN HOLE	12	REPORTED, METHOD NOT KNOWN	40.00	COMMERCIAL
129152	BECHTOLD S	6/22/1987	LUZERNE	41.08000	-76.15861	150	OPEN HOLE	40	ESTIMATED	0.00	DOMESTIC
128838	BECK	7/1/1984	LUZERNE	41.08944	-76.09250	345	OPEN HOLE	3	VOLUMETRIC, WATCH & BUCKET	30.00	DOMESTIC
128352	BECK P	9/1/1983	LUZERNE	41.12833	-76.12639	175	OPEN HOLE	15	VOLUMETRIC, WATCH & BUCKET	20.00	DOMESTIC
129027	BENJAMIN ORVILL		LUZERNE	41.04278	-76.19833	125	OPEN HOLE	0	UNKNOWN	0.00	DOMESTIC
25344	BENJAMIN, ORVILLE	7/2/1974	LUZERNE	41.04361	-76.19861	125	OPEN HOLE	0		20.00	DOMESTIC
129141	BENSCOTER L	5/18/1982	LUZERNE	41.07444	-76.15167	128	OPEN HOLE	12	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
250899	BIG B DRIVE IN		LUZERNE	41.06560	-76.19720	100		0		0.00	COMMERCIAL
128975	BLACKBURN ED	8/1/1978	LUZERNE	41.03667	-76.17611	300	OPEN HOLE	20	VOLUMETRIC, WATCH & BUCKET	40.00	DOMESTIC
129223	BLOOM FRANK		LUZERNE	41.11250	-76.19056	150	OPEN HOLE	8	UNKNOWN	0.00	DOMESTIC
25475	BLOOM, FRANK	10/19/1976	LUZERNE	41.11306	-76.18889	150	OPEN HOLE	8	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
25778	BLUE COAL CO	1/1/1966	LUZERNE	41.14500	-76.14083	170	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	57.00	UNUSED
25779	BLUE COAL CO	1/1/1967	LUZERNE	41.14639	-76.12611	305	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	155.00	UNUSED
25780	BLUE COAL CO	1/1/1967	LUZERNE	41.14639	-76.12611	315	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	152.00	UNUSED
25781	BLUE COAL CO	1/1/1966	LUZERNE	41.14778	-76.11472	80	OPEN HOLE	10		1.00	UNUSED

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
25782	BLUE COAL CO	1/1/1967	LUZERNE	41.14944	-76.11750	115	OPEN HOLE	12	PITOT-TUBE METER	60.00	UNUSED
25783	BLUE COAL CO	1/1/1967	LUZERNE	41.15028	-76.14444	55	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	22.00	UNUSED
25786	BLUE COAL CO	1/1/1967	LUZERNE	41.15194	-76.13278	485	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	185.00	UNUSED
128987	BOENICH J	5/1/1988	LUZERNE	41.04306	-76.14028	200	OPEN HOLE	15	ESTIMATED	40.00	DOMESTIC
129209	BOGART LARUE		LUZERNE	41.09083	-76.20333	125	OPEN HOLE	7	UNKNOWN	0.00	DOMESTIC
25428	BOGART, LARUE	10/25/1976	LUZERNE	41.09250	-76.20667	125	OPEN HOLE	7	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
25424	BOGNAR, RICHARD	6/1/1976	LUZERNE	41.09056	-76.20222	200	OPEN HOLE	25	REPORTED, METHOD NOT KNOWN	60.00	DOMESTIC
25413	BOMBUSHIME HARRY	6/22/1973	LUZERNE	41.08583	-76.22333	300	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
129210	BOONER RICHARD		LUZERNE	41.09056	-76.20222	200	OPEN HOLE	25	UNKNOWN	60.00	DOMESTIC
25774	BOSTON, ROBERT	9/20/1973	LUZERNE	41.11861	-76.16611	175	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
128996	BOWER K	11/7/1986	LUZERNE	41.05361	-76.17056	420	OPEN HOLE	1	ESTIMATED	0.00	DOMESTIC
129196	BRADER HERB		LUZERNE	41.08944	-76.18056	100	OPEN HOLE	12	UNKNOWN	0.00	DOMESTIC
25768	BRADER, HERB	7/5/1972	LUZERNE	41.08944	-76.18056	100	OPEN HOLE	0		34.70	DOMESTIC
25378	BREISCH CONKLIN	11/22/1976	LUZERNE	41.06750	-76.10361	150	OPEN HOLE	10	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
128993	BREMMER M	6/1/1987	LUZERNE	41.04167	-76.13333	398	OPEN HOLE	1	ESTIMATED	0.00	DOMESTIC
128827	BUCK	12/1/1987	LUZERNE	41.08111	-76.08167	375	OPEN HOLE	2	ESTIMATED	0.00	DOMESTIC
129157	BUCK J	8/15/1986	LUZERNE	41.07722	-76.20694	125	OPEN HOLE	15		0.00	DOMESTIC
129098	BULFORD	12/1/1988	LUZERNE	41.14444	-76.19694	330	OPEN HOLE	4	ESTIMATED	25.00	DOMESTIC
129189	BURKE RUSSEL		LUZERNE	41.06972	-76.16417	100	OPEN HOLE	8	UNKNOWN	0.00	DOMESTIC

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
25384	BURKE, RUSSEL	8/8/1973	LUZERNE	41.06972	-76.16361	100	OPEN HOLE	8	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
250937	BUTCH'S ONE STOP		LUZERNE	41.06810	-76.16220	140	OPEN HOLE	0		0.00	COMMERCIAL
25314	CALLAHAN	4/9/1974	LUZERNE	41.02611	-76.18361	300	OPEN HOLE	0		160.00	DOMESTIC
128833	CHAPIN C	11/1/1985	LUZERNE	41.05139	-76.10639	248	OPEN HOLE	30	ESTIMATED	0.00	DOMESTIC
129028	CHAPIN CURTIS		LUZERNE	41.04583	-76.12056	140	OPEN HOLE	30	UNKNOWN	0.00	DOMESTIC
25484	CISCO,MR.		LUZERNE	41.12639	-76.14417	145	OPEN HOLE	25		25.00	DOMESTIC
250854	CITIZENS WATER CO.		LUZERNE	41.07970	-76.11860	375		50	REPORTED, METHOD NOT KNOWN	40.00	PUBLIC SUPPLY
250942	COUNCIL CUP CAMPGROUND		LUZERNE	41.09970	-76.10500	480		10	REPORTED, METHOD NOT KNOWN	0.00	PUBLIC SUPPLY
250847	COUNTRY ESTATES M H COURT		LUZERNE	41.11110	-76.15420	235	OPEN HOLE	20	REPORTED, METHOD NOT KNOWN	54.00	PUBLIC SUPPLY
129211	COWIE ROBERT		LUZERNE	41.09556	-76.19139	615	OPEN HOLE	2	UNKNOWN	375.00	DOMESTIC
129148	CRANE L	10/25/1984	LUZERNE	41.14000	-76.20333	200	OPEN HOLE	4	BAILER	0.00	DOMESTIC
129155	CRANE N	9/26/1986	LUZERNE	41.08556	-76.15306	400	OPEN HOLE	2	ESTIMATED	0.00	DOMESTIC
25481	CRISBELL, WILLIAM	11/22/1972	LUZERNE	41.12278	-76.16778	110	OPEN HOLE	0		35.00	UNUSED
25407	D. SULT	8/1/1980	LUZERNE	41.08278	-76.10889	200	OPEN HOLE	0		150.00	DOMESTIC
129136	DAGOSTINE W	10/11/1982	LUZERNE	41.07278	-76.21194	550	OPEN HOLE	12	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
129144	DAGOSTINE W	8/10/1982	LUZERNE	41.08000	-76.19667	350	OPEN HOLE	3	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
128831	DAILEY K	7/1/1986	LUZERNE	41.04722	-76.09639	320	OPEN HOLE	15	ESTIMATED	0.00	DOMESTIC
129220	DALBERTO NICK		LUZERNE	41.10694	-76.17444	150	OPEN HOLE	6	UNKNOWN	0.00	DOMESTIC

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}
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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
25466	DALBERTO, NICK	8/12/1976	LUZERNE	41.10694	-76.18278	150	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0.00	UNUSED
129185	DAVENPORT WM	1/1/1968	LUZERNE	41.06722	-76.17639	66		4	UNKNOWN	14.00	DOMESTIC
25379	DAVENPORT, WELLINGTON		LUZERNE	41.06750	-76.17778	0		0		11.50	DOMESTIC
129166	DAVIS J	4/28/1983	LUZERNE	41.09083	-76.22333	275	OPEN HOLE	7	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
129191	DAVIS WILLIAM		LUZERNE	41.06750	-76.16389	100	OPEN HOLE	6	UNKNOWN	0.00	DOMESTIC
25759	DAVIS, WILLIAM	7/9/1973	LUZERNE	41.06694	-76.16556	100	OPEN HOLE	0		7.16	DOMESTIC
25381	DAVIS,B.S.	1/1/1930	LUZERNE	41.06889	-76.17500	102	OPEN HOLE	9		14.00	DOMESTIC
129018	DEISCHAINE RLND		LUZERNE	41.03944	-76.13778	275	OPEN HOLE	20	UNKNOWN	0.00	DOMESTIC
25339	DEISCHAINE ROLAND	5/1/1974	LUZERNE	41.03917	-76.13750	275	OPEN HOLE	20	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
128978	DEISEHAINE B	4/1/1978	LUZERNE	41.03917	-76.13722	100	OPEN HOLE	8	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
128979	DEISEHAINE B	4/1/1978	LUZERNE	41.03778	-76.13750	150	OPEN HOLE	6	ESTIMATED	0.00	DOMESTIC
129151	DELLEGROTTI P	4/13/1987	LUZERNE	41.07056	-76.22778	150	OPEN HOLE	15	ESTIMATED	0.00	DOMESTIC
129213	DENN THOMAS		LUZERNE	41.08333	-76.18556	125	OPEN HOLE	10	UNKNOWN	0.00	DOMESTIC
128839	DENNIS R		LUZERNE	41.08083	-76.10528	300	OPEN HOLE	3	VOLUMETRIC, WATCH & BUCKET	30.00	DOMESTIC
129153	DESCHAINE B	9/16/1987	LUZERNE	41.09139	-76.21528	450	OPEN HOLE	4	ESTIMATED	0.00	DOMESTIC
129154	DESCHAINE B	9/15/1987	LUZERNE	41.09083	-76.21472	450	OPEN HOLE	3	ESTIMATED	0.00	DOMESTIC
25390	DIAUGSTINE NEBBIE	10/14/1974	LUZERNE	41.07167	-76.19667	275	OPEN HOLE	4	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
129198	DIAUGSTINE V		LUZERNE	41.07167	-76.19667	275	OPEN HOLE	4	UNKNOWN	0.00	DOMESTIC
129192	DOLLMAIV WM		LUZERNE	41.06583	-76.16000	150	OPEN HOLE	6	UNKNOWN	0.00	DOMESTIC
128969	DOUTHAT J	3/2/1983	LUZERNE	41.05194	-76.20500	200	OPEN HOLE	0	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}
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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
128972	DRIBELLIS W	5/3/1982	LUZERNE	41.04167	-76.19889	225	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
128349	DUSKOSKY	12/1/1987	LUZERNE	41.11750	-76.11194	250	OPEN HOLE	6	ESTIMATED	0.00	DOMESTIC
129156	EDWARDS B	7/18/1984	LUZERNE	41.07722	-76.22389	175	OPEN HOLE	6	ESTIMATED	0.00	DOMESTIC
250959	ENERGY INFORMATION CENTER		LUZERNE	41.10190	-76.12080	100	OPEN END	15	REPORTED, METHOD NOT KNOWN	0.00	COMMERCIAL
128970	EROH G	11/1/1982	LUZERNE	41.05278	-76.16389	300	OPEN HOLE	5	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
129221	FATUMA ROMAN		LUZERNE	41.10778	-76.17417	125	OPEN HOLE	8	UNKNOWN	45.00	DOMESTIC
129147	FEDORCO M	8/31/1983	LUZERNE	41.08278	-76.18611	340	OPEN HOLE	1	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
129206	FEISSNOR LARRY		LUZERNE	41.08028	-76.22639	175	OPEN HOLE	10	UNKNOWN	100.00	DOMESTIC
25402	FEISSNOR, LARRY	3/9/1973	LUZERNE	41.07972	-76.22611	175	OPEN HOLE	10	REPORTED, METHOD NOT KNOWN	100.00	DOMESTIC
25758	FELIX, RUDY		LUZERNE	41.06222	-76.15639	471	UNKNOWN	0		22.80	DOMESTIC
129020	FILMORE MARTIN		LUZERNE	41.03361	-76.17306	175	OPEN HOLE	6	UNKNOWN	0.00	DOMESTIC
129365	FOAMANOWSKI S	3/1/1988	LUZERNE	41.10917	-76.13194	300	OPEN HOLE	15	ESTIMATED	45.00	DOMESTIC
25398	FOX, CLARENCE		LUZERNE	41.07611	-76.13500	55	UNKNOWN	0		0.00	DOMESTIC
25480	FRANK BUTZ	3/30/1979	LUZERNE	41.12250	-76.12000	200	OPEN HOLE	30	REPORTED, METHOD NOT KNOWN	30.00	DOMESTIC
128830	FRASSO J	7/1/1986	LUZERNE	41.09972	-76.08306	180	OPEN HOLE	20	ESTIMATED	25.00	DOMESTIC
129184	FULLER MAURICE	1/1/1968	LUZERNE	41.06944	-76.16750	80	OPEN HOLE	32	UNKNOWN	12.00	DOMESTIC
129178	GARRISON IRVIN	1/1/1966	LUZERNE	41.13917	-76.20528	135	OPEN HOLE	30	UNKNOWN	50.00	DOMESTIC

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
25409	GOLOMB, DEBRA	4/25/1970	LUZERNE	41.08333	-76.18556	125	OPEN HOLE	0		8.75	DOMESTIC
250952	GOOD TIME GOLF		LUZERNE	41.04780	-76.15030	340	OPEN HOLE	8	REPORTED, METHOD NOT KNOWN	220.00	COMMERCIAL
25393	GRIFFIN, GEORGE	1/1/1957	LUZERNE	41.07278	-76.15167	98	UNKNOWN	0		63.00	DOMESTIC
129227	GRISBELL WM		LUZERNE	41.12278	-76.16778	110	OPEN HOLE	10	UNKNOWN	0.00	DOMESTIC
25410	GROBER,A.		LUZERNE	41.08389	-76.10944	142	OPEN HOLE	7		65.00	DOMESTIC
129228	GROOVER	6/1/1988	LUZERNE	41.15361	-76.15500	100	OPEN HOLE	40	ESTIMATED	20.00	DOMESTIC
129182	GUNTHER BART	1/1/1967	LUZERNE	41.10694	-76.21556	215	OPEN HOLE	4	UNKNOWN	80.00	DOMESTIC
25465	GUNTHER, BART	9/9/1967	LUZERNE	41.10667	-76.21556	215	OPEN HOLE	3	VOLUMETRIC, WATCH & BUCKET	80.00	DOMESTIC
129197	GUYER ANTHONY		LUZERNE	41.08500	-76.17333	125	OPEN HOLE	6	UNKNOWN	0.00	DOMESTIC
251149	H&W OIL CO DBA MOTOR-VU DRIVE		LUZERNE	41.04417	-76.13944	0		0		0.00	COMMERCIAL
418914	HAROLDKLEIN SMITH	10/25/2006	LUZERNE	41.14197	-76.21738	450	OPEN HOLE	12	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
129164	HART K	10/3/1983	LUZERNE	41.06861	-76.19611	200	OPEN HOLE	5		0.00	DOMESTIC
129181	HAUGH HAROLD W	1/1/1967	LUZERNE	41.07250	-76.19583	193	OPEN HOLE	2	UNKNOWN	75.00	DOMESTIC
129024	HAWK GEORGE		LUZERNE	41.03333	-76.18000	230	OPEN HOLE	18	UNKNOWN	30.00	DOMESTIC
128345	HERRING DOROTHY	7/24/1978	LUZERNE	41.13083	-76.10417	250		0	ESTIMATED	20.00	DOMESTIC
25453	HESS,RALPH	1/1/1950	LUZERNE	41.10083	-76.09806	397	UNKNOWN	0		0.00	UNUSED
250921	HESS'S COUNTRY CONE		LUZERNE	41.09500	-76.11440	100		0		0.00	COMMERCIAL
129208	HILLS COMPANY		LUZERNE	41.08694	-76.22056	250	OPEN HOLE	6	UNKNOWN	0.00	DOMESTIC

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
129226	HIXON WILLIAM		LUZERNE	41.11778	-76.16611	175	OPEN HOLE	6	UNKNOWN	0.00	DOMESTIC
129224	HOLLOWAY THOMAS		LUZERNE	41.11306	-76.18361	125	OPEN HOLE	6	UNKNOWN	0.00	DOMESTIC
25473	HOLLOWAY, THOMAS	10/3/1974	LUZERNE	41.11278	-76.18250	125	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
129216	HONSE GEORGE		LUZERNE	41.10444	-76.17750	150	OPEN HOLE	5	UNKNOWN	0.00	DOMESTIC
129137	HONSE JOE	8/9/1978	LUZERNE	41.10111	-76.17056	100		8	ESTIMATED	0.00	DOMESTIC
25461	HONSE, GEORGE	12/26/1975	LUZERNE	41.10500	-76.17639	150	OPEN HOLE	5	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
128973	HOPPY B	7/2/1981	LUZERNE	41.03417	-76.16722	225	OPEN HOLE	8	ESTIMATED	0.00	DOMESTIC
129022	HOUCH HAROLD		LUZERNE	41.03333	-76.17222	140	OPEN HOLE	15	UNKNOWN	0.00	DOMESTIC
129005	HOUGH H	8/30/1984	LUZERNE	41.02472	-76.20667	150	OPEN HOLE	15	ESTIMATED	0.00	DOMESTIC
25463	HUMMEL, FRED	5/7/1976	LUZERNE	41.10667	-76.13806	90	UNKNOWN	10	REPORTED, METHOD NOT KNOWN	0.00	PUBLIC SUPPLY
25493	J. ROBINSON	4/1/1979	LUZERNE	41.14000	-76.21500	200	OPEN HOLE	8	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
129146	JOHNSON B	1/28/1988	LUZERNE	41.10111	-76.22833	150	OPEN HOLE	10	ESTIMATED	0.00	DOMESTIC
129138	JOHNSON R	5/14/1982	LUZERNE	41.11222	-76.16417	200	OPEN HOLE	5	ESTIMATED	0.00	DOMESTIC
129019	JUMPER HARRY		LUZERNE	41.03472	-76.17444	125	OPEN HOLE	8	UNKNOWN	0.00	DOMESTIC
129212	KARCHNER GERALD		LUZERNE	41.08639	-76.19083	130	OPEN HOLE	10	UNKNOWN	25.00	DOMESTIC
25416	KARCHNER, GERALD	11/9/1967	LUZERNE	41.08639	-76.19139	130	OPEN HOLE	10	ESTIMATED	25.00	DOMESTIC
129162	KECK R	10/21/1985	LUZERNE	41.09389	-76.21694	500	OPEN HOLE	3	ESTIMATED	0.00	DOMESTIC
129202	KELLER EARL		LUZERNE	41.10444	-76.21167	125	OPEN HOLE	8	UNKNOWN	0.00	DOMESTIC
25470	KELLER, EARL	6/26/1973	LUZERNE	41.10361	-76.21167	125	OPEN HOLE	8		0.00	DOMESTIC
129167	KEMMER C	8/23/1983	LUZERNE	41.07111	-76.19806	350	OPEN HOLE	4	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
25418	KENNEDY, MICHAEL	7/5/1974	LUZERNE	41.08694	-76.22278	250	OPEN HOLE	7	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
129200	KESSLER HAROLD		LUZERNE	41.08972	-76.22361	300	OPEN HOLE	5	UNKNOWN	0.00	DOMESTIC
129007	KESSLER J	7/1/1983	LUZERNE	41.04333	-76.20528	225		9		0.00	
25423	KESSLER, HAROLD	9/14/1973	LUZERNE	41.09028	-76.22333	300	OPEN HOLE	5	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
25385	KILLIAN, GENE	3/30/1967	LUZERNE	41.06972	-76.16750	100	OPEN HOLE	20	BAILER	8.22	DOMESTIC
129017	KLINE LARRY		LUZERNE	41.04944	-76.16528	140	OPEN HOLE	0		0.00	DOMESTIC
25354	KLINE, LARRY	2/19/1974	LUZERNE	41.04944	-76.16556	140	OPEN HOLE	0		0.00	DOMESTIC
25388	KMETOVICZ, GENE	12/9/1967	LUZERNE	41.07056	-76.17611	85	OPEN HOLE	0		22.00	DOMESTIC
129180	KNORR SAMUEL	1/1/1967	LUZERNE	41.08667	-76.19278	117	OPEN HOLE	8	UNKNOWN	20.00	DOMESTIC
25420	KNORR, SAMUEL	6/18/1967	LUZERNE	41.08861	-76.18750	117	OPEN HOLE	0		32.80	DOMESTIC
129214	KOONS ROBERT		LUZERNE	41.07778	-76.18667	125	OPEN HOLE	6	UNKNOWN	0.00	DOMESTIC
129215	KOONS ROBERT		LUZERNE	41.07750	-76.18556	125	OPEN HOLE	6	UNKNOWN	0.00	DOMESTIC
129158	KRAMER B	5/29/1986	LUZERNE	41.07361	-76.17889	300	OPEN HOLE	1	ESTIMATED	0.00	DOMESTIC
129217	KRISANDA JOHN		LUZERNE	41.10139	-76.17139	100	OPEN HOLE	6	UNKNOWN	0.00	DOMESTIC
25455	KRISANDA, JOHN	7/8/1975	LUZERNE	41.10111	-76.17167	100	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
129159	KYTTLE O	5/1/1985	LUZERNE	41.11111	-76.19306	200	OPEN HOLE	4	ESTIMATED	0.00	DOMESTIC
128821	LASKOSKY FRANCIS	2/16/1976	LUZERNE	41.05083	-76.08778	140		20	ESTIMATED	30.00	DOMESTIC
129161	LAUBACH B	7/16/1985	LUZERNE	41.10889	-76.21167	225	OPEN HOLE	5	ESTIMATED	0.00	DOMESTIC
128834	LEWIS I	11/1/1984	LUZERNE	41.08556	-76.08833	225	OPEN HOLE	20		20.00	DOMESTIC
128344	LEWIS R	8/1/1977	LUZERNE	41.12889	-76.09083	345	OPEN HOLE	3	VOLUMETRIC, WATCH & BUCKET	50.00	DOMESTIC
128982	LLOYD BILL	4/1/1989	LUZERNE	41.04444	-76.14639	275	OPEN HOLE	7	ESTIMATED	35.00	DOMESTIC

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
129165	LUCIW T	10/10/1984	LUZERNE	41.10694	-76.18611	150		7	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
128985	LUNDY CONSTRUCTIO N	11/23/1988	LUZERNE	41.04944	-76.15778	200	OPEN HOLE	20	ESTIMATED	0.00	DOMESTIC
129150	LUNDY CONSTRUCTIO N	3/10/1987	LUZERNE	41.06806	-76.16417	325	OPEN HOLE	110	ESTIMATED	0.00	DOMESTIC
128983	LYNN J	4/1/1989	LUZERNE	41.04444	-76.18667	200	OPEN HOLE	25	ESTIMATED	30.00	DOMESTIC
25401	M. PETERS	1/1/1981	LUZERNE	41.07889	-76.09111	250	OPEN HOLE	10	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
128357	MACANAQUA WATER	1/1/1967	LUZERNE	41.14194	-76.13167	307	OPEN HOLE	75	UNKNOWN	15.00	PUBLIC SUPPLY
128990	MADISH M	9/25/1987	LUZERNE	41.03250	-76.21861	340	OPEN HOLE	3	ESTIMATED	0.00	DOMESTIC
128981	MARGARM HOWARD	4/1/1989	LUZERNE	41.04333	-76.18389	360	OPEN HOLE	15	ESTIMATED	70.00	DOMESTIC
25397	MARKOVICH,M. J.	9/3/1930	LUZERNE	41.07444	-76.14861	100	OPEN HOLE	0		30.00	DOMESTIC
129160	MASON JR. R	8/23/1985	LUZERNE	41.07778	-76.22361	250	OPEN HOLE	5	ESTIMATED	0.00	DOMESTIC
128971	MATASH A	7/28/1982	LUZERNE	41.04333	-76.20306	450	OPEN HOLE	4	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
25417	MCCOY, DONALD	7/4/1974	LUZERNE	41.08667	-76.22444	250	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
128998	MCCREARY J	6/1/1985	LUZERNE	41.04111	-76.14889	275	OPEN HOLE	5	ESTIMATED	0.00	DOMESTIC
418813	MICHAELROINI CK	11/13/2006	LUZERNE	41.03265	-76.14770	300	OPEN HOLE	5	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
128991	MILLER G	8/13/1987	LUZERNE	41.04083	-76.19028	300	OPEN HOLE	1	ESTIMATED	0.00	DOMESTIC
25411	MINGLE INN		LUZERNE	41.08417	-76.13972	150	UNKNOWN	0		0.00	COMMERCIAL
25389	MOLNOR, STEVE	9/24/1976	LUZERNE	41.07139	-76.16778	150	OPEN HOLE	6	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
129194	MOLYNEAUX SHLDN		LUZERNE	41.06917	-76.16639	50	OPEN HOLE	15	UNKNOWN	0.00	DOMESTIC
25383	MOLYNEAUX, SHELDON	10/4/1974	LUZERNE	41.06917	-76.16694	50	OPEN HOLE	0		2.46	DOMESTIC
25419	MONT, MICHAIL	10/23/1972	LUZERNE	41.08722	-76.13917	100	OPEN HOLE	0		5.28	DOMESTIC
129199	MORGAN PIERCE		LUZERNE	41.06722	-76.21750	125	OPEN HOLE	8	UNKNOWN	65.00	DOMESTIC
129203	NAUNCZEK BENNIE		LUZERNE	41.07972	-76.22528	100	OPEN HOLE	12	UNKNOWN	30.00	DOMESTIC
129204	NAUNCZEK BENNIE		LUZERNE	41.07417	-76.22750	100	OPEN HOLE	10	UNKNOWN	0.00	DOMESTIC
129205	NAUNCZEK BENNIE		LUZERNE	41.07417	-76.22611	125	OPEN HOLE	15	UNKNOWN	0.00	DOMESTIC
25395	NAUNCZEK, BENNIE	5/2/1977	LUZERNE	41.07389	-76.22611	125	OPEN HOLE	0		26.00	DOMESTIC
25396	NAUNCZEK, BENNIE	3/16/1976	LUZERNE	41.07389	-76.22750	100	OPEN HOLE	0		14.90	COMMERCIAL
25403	NAUNCZEK, BENNIE	8/19/1971	LUZERNE	41.08000	-76.22472	100	OPEN HOLE	12	REPORTED, METHOD NOT KNOWN	30.00	DOMESTIC
129174	PA POWER &LIGHT	1/1/1973	LUZERNE	41.09250	-76.13167	81	SCREEN	500		8.00	INDUSTRIAL
129175	PA POWER &LIGHT	1/1/1973	LUZERNE	41.09250	-76.13167	96	PERFORATED OR SLOTTED	0		0.00	
129176	PA POWER &LIGHT	1/1/1973	LUZERNE	41.09806	-76.13167	54	PERFORATED OR SLOTTED	0		0.00	
25422	PA. POWER AND LIGHT	10/16/1970	LUZERNE	41.09028	-76.14444	0	OPEN HOLE	0		5.40	UNUSED
25425	PA. POWER AND LIGHT	12/14/1970	LUZERNE	41.09083	-76.14472	0	OPEN HOLE	0		21.00	UNUSED
25426	PA. POWER AND LIGHT	9/29/1970	LUZERNE	41.09194	-76.14417	0	OPEN HOLE	0		17.00	UNUSED

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
25427	PA. POWER AND LIGHT	11/18/1970	LUZERNE	41.09194	-76.14778	0	OPEN HOLE	0		6.75	UNUSED
25429	PA. POWER AND LIGHT	8/1/1972	LUZERNE	41.09278	-76.13306	55	UNKNOWN	0		0.00	UNUSED
25430	PA. POWER AND LIGHT	10/20/1970	LUZERNE	41.09278	-76.14361	0	OPEN HOLE	0		27.10	UNUSED
25431	PA. POWER AND LIGHT	11/16/1970	LUZERNE	41.09278	-76.14472	0	OPEN HOLE	0		26.10	UNUSED
25432	PA. POWER AND LIGHT	11/20/1970	LUZERNE	41.09278	-76.14778	0	OPEN HOLE	0		34.10	UNUSED
25433	PA. POWER AND LIGHT	8/1/1972	LUZERNE	41.09361	-76.13444	23	UNKNOWN	0		0.00	UNUSED
25434	PA. POWER AND LIGHT	11/18/1970	LUZERNE	41.09389	-76.14417	0	OPEN HOLE	0		28.00	UNUSED
25436	PA. POWER AND LIGHT	8/1/1972	LUZERNE	41.09417	-76.13250	75	UNKNOWN	9		24.50	INDUSTRIAL
25437	PA. POWER AND LIGHT	10/6/1970	LUZERNE	41.09417	-76.14333	0	OPEN HOLE	0		31.70	UNUSED
25438	PA. POWER AND LIGHT	10/8/1970	LUZERNE	41.09417	-76.14778	0	OPEN HOLE	0		18.00	UNUSED
25439	PA. POWER AND LIGHT	10/6/1970	LUZERNE	41.09500	-76.14500	0	OPEN HOLE	0		29.70	UNUSED
25440	PA. POWER AND LIGHT	10/14/1970	LUZERNE	41.09528	-76.14361	0	OPEN HOLE	0		14.80	OTHER
25441	PA. POWER AND LIGHT	10/9/1970	LUZERNE	41.09528	-76.14472	0	OPEN HOLE	0		62.30	UNUSED
25442	PA. POWER AND LIGHT	11/9/1970	LUZERNE	41.09556	-76.14472	0	OPEN HOLE	0		35.70	UNUSED
25443	PA. POWER AND LIGHT	10/29/1970	LUZERNE	41.09556	-76.14667	0	OPEN HOLE	0		65.20	UNUSED
25444	PA. POWER AND LIGHT		LUZERNE	41.09583	-76.13028	44	UNKNOWN	0		13.00	UNUSED

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
25445	PA. POWER AND LIGHT	10/23/1970	LUZERNE	41.09583	-76.14556	0	OPEN HOLE	0		54.50	UNUSED
25446	PA. POWER AND LIGHT	11/12/1970	LUZERNE	41.09611	-76.14417	0	OPEN HOLE	0		29.20	UNUSED
25447	PA. POWER AND LIGHT	10/29/1970	LUZERNE	41.09611	-76.14472	0	OPEN HOLE	0		32.20	UNUSED
25448	PA. POWER AND LIGHT	10/21/1970	LUZERNE	41.09694	-76.14500	0	OPEN HOLE	0		0.00	UNUSED
25450	PA. POWER AND LIGHT	11/10/1970	LUZERNE	41.09778	-76.14500	0	OPEN HOLE	0		0.00	UNUSED
25451	PA. POWER AND LIGHT	1/16/1973	LUZERNE	41.09833	-76.13028	91	UNKNOWN	0		0.00	UNUSED
25456	PA. POWER AND LIGHT	10/12/1977	LUZERNE	41.10250	-76.13722	100	OPEN HOLE	0		24.60	DOMESTIC
25458	PA. POWER AND LIGHT	1/11/1973	LUZERNE	41.10361	-76.13194	54	UNKNOWN	0		16.00	UNUSED
25769	PA. POWER AND LIGHT	1/22/1973	LUZERNE	41.09528	-76.13028	58	UNKNOWN	0		7.57	INDUSTRIAL
25770	PA. POWER AND LIGHT	10/1/1973	LUZERNE	41.09528	-76.13528	0		65		9.00	INDUSTRIAL
25771	PA. POWER AND LIGHT	10/1/1973	LUZERNE	41.09556	-76.13528	0		150	REPORTED, METHOD NOT KNOWN	17.00	INDUSTRIAL
129003	PADEN J	7/5/1984	LUZERNE	41.04389	-76.20444	300	OPEN HOLE	5	BAILER	0.00	DOMESTIC
129008	PADEN J	9/15/1983	LUZERNE	41.04472	-76.20611	400	OPEN HOLE	2	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
128984	PALERY D	4/1/1989	LUZERNE	41.04417	-76.18667	220	OPEN HOLE	12	ESTIMATED	50.00	DOMESTIC
129218	PETERS FRANK		LUZERNE	41.10556	-76.18056	150	OPEN HOLE	6	UNKNOWN	0.00	DOMESTIC
129219	PETERS FRANK		LUZERNE	41.10556	-76.18056	130	OPEN HOLE	8	UNKNOWN	10.00	DOMESTIC
25462	PETERS, FRANK	1/27/1972	LUZERNE	41.10639	-76.18167	130	OPEN HOLE	0		10.00	DOMESTIC
25464	PETERS, FRANK	8/13/1976	LUZERNE	41.10667	-76.18083	150	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
129207	PINTERICH ROBT		LUZERNE	41.07306	-76.22556	175	OPEN HOLE	5	UNKNOWN	0.00	DOMESTIC
25394	PINTERICH, ROBERT	3/12/1976	LUZERNE	41.07389	-76.22528	175	OPEN HOLE	0		35.70	DOMESTIC
128347	PIZIA	4/1/1989	LUZERNE	41.10889	-76.07444	250	OPEN HOLE	10	ESTIMATED	25.00	DOMESTIC
128348	PIZIA	3/1/1989	LUZERNE	41.11000	-76.07444	240	OPEN HOLE	35	ESTIMATED	20.00	DOMESTIC
250843	PLEASANT VIEW M H P		LUZERNE	41.08670	-76.18810	300		13	REPORTED, METHOD NOT KNOWN	0.00	PUBLIC SUPPLY
250844	PLEASANT VIEW M H P		LUZERNE	41.08670	-76.18810	300		60	REPORTED, METHOD NOT KNOWN	0.00	PUBLIC SUPPLY
250845	PLEASANT VIEW M H P		LUZERNE	41.08670	-76.18500	380	OPEN HOLE	19	REPORTED, METHOD NOT KNOWN	300.00	PUBLIC SUPPLY
250926	PMC LIFESTYLE		LUZERNE	41.07170	-76.15670	325		50	REPORTED, METHOD NOT KNOWN	0.00	COMMERCIAL
250956	PP&L SUSQUEHANNA S&A WELLS		LUZERNE	41.09170	-76.14860	75		50	REPORTED, METHOD NOT KNOWN	0.00	COMMERCIAL
250957	PP&L SUSQUEHANNA S&A WELLS		LUZERNE	41.09170	-76.14860	75		50	REPORTED, METHOD NOT KNOWN	0.00	COMMERCIAL
129135	PPL COMPANY	8/26/1981	LUZERNE	41.09389	-76.14611	225	OPEN HOLE	35		7.00	PUBLIC SUPPLY
25382	PRICE, ROBERT B	8/25/1973	LUZERNE	41.06917	-76.15194	125	UNKNOWN	9		48.00	DOMESTIC
25391	PRICE, ROBERT P	10/11/1967	LUZERNE	41.07250	-76.15194	160	OPEN HOLE	0		63.00	DOMESTIC
250898	PRIME TIME RESTAURANT		LUZERNE	41.10670	-76.13670	98		0		98.00	COMMERCIAL
128817	READLER C	3/5/1974	LUZERNE	41.04722	-76.11389	200		20	ESTIMATED	18.00	DOMESTIC

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
128358	READLER HOYT	1/1/1966	LUZERNE	41.14111	-76.13833	217	OPEN HOLE	3	UNKNOWN	24.00	DOMESTIC
129004	READLER K	2/1/1986	LUZERNE	41.03917	-76.18917	223	OPEN HOLE	12	ESTIMATED	0.00	DOMESTIC
25731	READLER, HOYT	1/24/1967	LUZERNE	41.04778	-76.15056	0	OPEN HOLE	15	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
25368	READLER,CALV IN P.		LUZERNE	41.05778	-76.09639	30	OPEN HOLE	0		27.00	DOMESTIC
250897	RED BARN CAFE		LUZERNE	41.10830	-76.13890	265		0		20.00	COMMERCIAL
25468	REICHARD, PAUL	1/7/1973	LUZERNE	41.10778	-76.18250	125	OPEN HOLE	0		45.00	DOMESTIC
128999	REIMARD E	10/1/1986	LUZERNE	41.04361	-76.18278	380	OPEN HOLE	20	ESTIMATED	70.00	DOMESTIC
129177	RHINARD VIRGIL	1/1/1966	LUZERNE	41.09778	-76.21417	95	OPEN HOLE	9	UNKNOWN	25.00	DOMESTIC
25449	RHINARD, VIRGIL	10/27/1966	LUZERNE	41.09750	-76.21556	95	OPEN HOLE	9	VOLUMETRIC, WATCH & BUCKET	25.00	DOMESTIC
128815	RINEHIMER R	12/1/1981	LUZERNE	41.08167	-76.09167	250	OPEN HOLE	5	VOLUMETRIC, WATCH & BUCKET	60.00	DOMESTIC
250958	RIVERLANDS RECREATION CENTER		LUZERNE	41.09940	-76.13580	105		30	REPORTED, METHOD NOT KNOWN	0.00	COMMERCIAL
128840	ROBBINS	3/1/1989	LUZERNE	41.04639	-76.09500	500	OPEN HOLE	20	ESTIMATED	40.00	DOMESTIC
129188	ROMAN HOMES		LUZERNE	41.06944	-76.16500	125	OPEN HOLE	7	UNKNOWN	0.00	PUBLIC SUPPLY
128994	RYMAN FARM	4/1/1988	LUZERNE	41.05417	-76.17472	200	OPEN HOLE	20		60.00	DOMESTIC
128992	RYMAN H	9/1/1987	LUZERNE	41.05500	-76.18833	280	OPEN HOLE	8	ESTIMATED	0.00	DOMESTIC
128997	RYMAN V	10/15/1986	LUZERNE	41.03694	-76.21250	360		3	ESTIMATED	0.00	DOMESTIC
128974	RYMAN W	8/1/1980	LUZERNE	41.05278	-76.16389	360	OPEN HOLE	35	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
129015	RYMAN WARREN	1/1/1966	LUZERNE	41.04083	-76.14306	235	OPEN HOLE	10	UNKNOWN	91.00	DOMESTIC

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
25366	RYMAN, WALTER	1/1/1980	LUZERNE	41.05611	-76.21056	340	OPEN HOLE	35	REPORTED, METHOD NOT KNOWN	81.80	STOCK
129186	SALEM TWP	1/1/1970	LUZERNE	41.08333	-76.14056	175	OPEN HOLE	12	UNKNOWN	0.00	DOMESTIC
25406	SALEM TWP.	1/4/1970	LUZERNE	41.08222	-76.14056	175	OPEN HOLE	12	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
129139	SEELLY E	9/8/1980	LUZERNE	41.09333	-76.16944	100	OPEN HOLE	0	ESTIMATED	0.00	DOMESTIC
129142	SEELY E	9/9/1980	LUZERNE	41.09167	-76.16917	55	OPEN HOLE	0	ESTIMATED	0.00	DOMESTIC
25374	SEIGFRED WILLIAM	6/15/1976	LUZERNE	41.06556	-76.21056	85	UNKNOWN	25		5.00	DOMESTIC
25514	SELECKY,FRANK,M R.	1/1/1955	LUZERNE	41.15722	-76.15583	62	UNKNOWN	40		0.00	DOMESTIC
25732	SELIC, ROBERT	8/21/1975	LUZERNE	41.05000	-76.20750	150	OPEN HOLE	10		0.00	DOMESTIC
128837	SENSON R	9/1/1983	LUZERNE	41.04722	-76.09333	225	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	30.00	DOMESTIC
129023	SEWARD HAROLD		LUZERNE	41.03194	-76.17194	245	OPEN HOLE	22	UNKNOWN	50.00	DOMESTIC
25320	SEWARO, HAROLD	2/17/1976	LUZERNE	41.03139	-76.17167	245	OPEN HOLE	22	VOLUMETRIC, WATCH & BUCKET	50.00	DOMESTIC
128819	SHOBERT RALPH	3/10/1974	LUZERNE	41.06556	-76.10222	480		4	ESTIMATED	0.00	DOMESTIC
129143	SHUMAN S	3/12/1982	LUZERNE	41.06778	-76.17472	410	OPEN HOLE	40	ESTIMATED	0.00	DOMESTIC
421702	SIDBUTLER	9/24/2007	LUZERNE	41.12045	-76.17738	250	OPEN HOLE	15	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
128836	SIEGAL R	8/1/1983	LUZERNE	41.07444	-76.07611	200	OPEN HOLE	8	VOLUMETRIC, WATCH & BUCKET	25.00	DOMESTIC
25469	SIESKO,EMIL	9/3/1930	LUZERNE	41.10806	-76.13833	148	OPEN END	0		48.00	DOMESTIC
25412	SINK, WILLIAM H	18500101	LUZERNE	41.08472	-76.15694	50	WALLED	0		4.85	DOMESTIC
129222	SITLER LEMUEL		LUZERNE	41.10917	-76.17778	100	OPEN HOLE	12	UNKNOWN	0.00	DOMESTIC

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}
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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
25471	SITLER, LEMUEL	9/24/1973	LUZERNE	41.10944	-76.17778	100	OPEN HOLE	12	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
250853	SLEEPY HOLLOW MOBILE HOME PARK		LUZERNE	41.13060	-76.22640	125	OPEN HOLE	25	REPORTED, METHOD NOT KNOWN	0.00	PUBLIC SUPPLY
25348	SLOSSER,MR.		LUZERNE	41.04639	-76.15056	138	UNKNOWN	0		0.00	DOMESTIC
129000	SMITH	8/1/1986	LUZERNE	41.04278	-76.14361	180	OPEN HOLE	12	ESTIMATED	40.00	DOMESTIC
128989	SMITH R	5/1/1988	LUZERNE	41.03500	-76.14028	180	OPEN HOLE	25	ESTIMATED	40.00	DOMESTIC
25761	SMITH, BRAD	2/1/1980	LUZERNE	41.07056	-76.16083	130	OPEN HOLE	0		36.50	DOMESTIC
128346	SPAIDE H	10/1/1982	LUZERNE	41.09333	-76.10389	160	OPEN HOLE	25	VOLUMETRIC, WATCH & BUCKET	10.00	DOMESTIC
128832	STEINBRENNE R	2/1/1986	LUZERNE	41.08250	-76.08444	240	OPEN HOLE	15	ESTIMATED	60.00	DOMESTIC
129021	STEINHAUER REV		LUZERNE	41.03306	-76.17389	170	OPEN HOLE	25	UNKNOWN	35.00	DOMESTIC
25326	STEINHAVER DONALD L	4/2/1974	LUZERNE	41.03361	-76.17333	170	OPEN HOLE	25	VOLUMETRIC, WATCH & BUCKET	35.00	DOMESTIC
129006	SUPERKO D	7/1/1983	LUZERNE	41.03889	-76.15194	330	OPEN HOLE	15		40.00	DOMESTIC
250940	SUSQ STEAM ELECTRIC STAT EOF		LUZERNE	41.08720	-76.15440	55		30	REPORTED, METHOD NOT KNOWN	0.00	COMMERCIAL
129201	SWITZER JIM		LUZERNE	41.10361	-76.21167	75	OPEN HOLE	6	UNKNOWN	35.00	DOMESTIC
25459	SWITZER, JIM	11/9/1972	LUZERNE	41.10472	-76.21194	75	OPEN HOLE	0		35.00	DOMESTIC
128986	TYRRELL C	3/11/1988	LUZERNE	41.04444	-76.18806	275	OPEN HOLE	40	ESTIMATED	0.00	DOMESTIC
128976	U S GEOL SURVEY	10/20/1980	LUZERNE	41.05889	-76.19806	200	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	23.00	
128977	U S GEOL SURVEY	10/20/1980	LUZERNE	41.05889	-76.19778	55	PERFORATED OR SLOTTED	36	TOTALING METER	23.00	
25756	U.S. GEOL. SURVEY	10/20/1980	LUZERNE	41.05889	-76.19806	200	OPEN HOLE	0		22.50	UNUSED
25757	U.S. GEOL. SURVEY	10/21/1980	LUZERNE	41.05889	-76.19806	55	UNKNOWN	0		20.40	UNUSED

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
25760	U.S. GEOL. SURVEY	10/16/1980	LUZERNE	41.06861	-76.15139	300	OPEN HOLE	0		51.10	UNUSED
25762	U.S. GEOL. SURVEY	10/14/1980	LUZERNE	41.07222	-76.15194	102	PERFORATED OR SLOTTED	0		62.40	UNUSED
128350	UTILITY ENGINEERS	11/1/1985	LUZERNE	41.14222	-76.13111	603	OPEN HOLE	25	VOLUMETRIC, WATCH & BUCKET	27.00	PUBLIC SUPPLY
129025	VALENTINO DAN		LUZERNE	41.02861	-76.18278	300	OPEN HOLE	2	UNKNOWN	160.00	DOMESTIC
25421	VANDERMARK WILSON	1/1/1959	LUZERNE	41.08889	-76.19250	90	OPEN HOLE	0		64.80	DOMESTIC
129195	VARNER ARTHUR		LUZERNE	41.08583	-76.19250	125	OPEN HOLE	7	UNKNOWN	0.00	DOMESTIC
25414	VARNER, ARTHUR	7/16/1974	LUZERNE	41.08611	-76.19194	125	OPEN HOLE	7	ESTIMATED	0.00	DOMESTIC
25496	W. KISHBAUGH	5/1/1979	LUZERNE	41.14222	-76.19667	150	OPEN HOLE	12	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
25376	W. ZIMSKI	9/1/1979	LUZERNE	41.06694	-76.11444	245	UNKNOWN	15		45.00	DOMESTIC
25764	WATTS	8/1/1980	LUZERNE	41.07278	-76.18889	230	OPEN HOLE	0		71.60	DOMESTIC
25767	WEADON BILL	7/3/1974	LUZERNE	41.08472	-76.19167	125	OPEN HOLE	0		38.10	DOMESTIC
25399	WEISS,MR.		LUZERNE	41.07722	-76.07944	75	UNKNOWN	12		25.00	DOMESTIC
129001	WENNER R	7/1/1986	LUZERNE	41.04333	-76.17889	280	OPEN HOLE	60	ESTIMATED	70.00	DOMESTIC
250852	WHIPPORWILL MOBILE HOME PARK		LUZERNE	41.12970	-76.22750	100	GRAVEL PACK W/SCREEN	15	REPORTED, METHOD NOT KNOWN	90.00	PUBLIC SUPPLY
128816	WHITEBREAD D	11/1/1983	LUZERNE	41.07861	-76.08944	200	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	20.00	DOMESTIC
25330	WHITMIRE	10/11/1974	LUZERNE	41.03444	-76.17389	175	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
25386	WOLFE, MALVERN	4/15/1970	LUZERNE	41.07000	-76.13611	175	OPEN HOLE	5		0.00	DOMESTIC
129002	WOOD LAND PRODUCT	1/14/1985	LUZERNE	41.05528	-76.12861	508	OPEN HOLE	2	ESTIMATED	0.00	STOCK

Table 2.4-48 {Ground Water Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth	Well Finish	Well Yield	Yield Measure Method	Static Water Level	Water Use
129229	WOOD V	12/5/1988	LUZERNE	41.15167	-76.15750	225	OPEN HOLE	7	ESTIMATED	0.00	DOMESTIC
128818	WYDA BOB	1/10/1976	LUZERNE	41.06583	-76.08667	170		20	ESTIMATED	40.00	DOMESTIC
128835	WYDA L	4/1/1985	LUZERNE	41.08750	-76.09694	225	OPEN HOLE	8	VOLUMETRIC, WATCH & BUCKET	30.00	DOMESTIC
129145	YARON D	10/13/1988	LUZERNE	41.07222	-76.14000	450	OPEN HOLE	10	ESTIMATED	0.00	DOMESTIC
25306	YODER,G.		LUZERNE	41.02306	-76.19833	96	OPEN HOLE	6		55.00	DOMESTIC
25375	ZETTLE, WILLIAM	1/1/1958	LUZERNE	41.06639	-76.19694	196	OPEN HOLE	0		93.70	DOMESTIC
129193	ZIETTS ANDY		LUZERNE	41.06611	-76.15778	225	OPEN HOLE	3	UNKNOWN	0.00	DOMESTIC
129163	ZWALHUSKI A	4/13/1984	LUZERNE	41.08944	-76.20083	100	OPEN HOLE	1	VOLUMETRIC, WATCH & BUCKET	0.00	DOMESTIC
129183	ZWOLINSKI S	1/1/1967	LUZERNE	41.07194	-76.17556	85	OPEN HOLE	14	UNKNOWN	22.00	DOMESTIC
129179	ZWOLINSKI STEVE	1/1/1967	LUZERNE	41.06944	-76.16750	100	OPEN HOLE	20	UNKNOWN	15.00	DOMESTIC
25387	ZWOLINSKI, STEVEN	8/9/1968	LUZERNE	41.07000	-76.16694	145	OPEN HOLE	20	BAILER	36.01	DOMESTIC
25328		7/18/1974	LUZERNE	41.03389	-76.17222	140	OPEN HOLE	15	REPORTED, METHOD NOT KNOWN	0.00	DOMESTIC
28736	BRYFOGLE, KENNETH	7/1/1980	MONTOUR	41.07583	-76.07639	250	UNKNOWN	25		18.00	COMMERCIAL
190082	SALVATERRA N		SNYDER	41.02278	-76.17556	275	OPEN HOLE	18	UNKNOWN	60.00	DOMESTIC

Table 2.4-49 {Ground Water Withdrawals Located Within a 25-Mile (40-km) Radius of BBNPP}

(Page 1 of 10)

SITE ID	ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
1633	SILBERLINE MFG CO INC	SILBERLINE MFG LANSFORD PLT	WELL 1	INDUSTRIAL USE	ACTIVE
1633	SILBERLINE MFG CO INC	SILBERLINE MFG LANSFORD PLT	WELL 2	INDUSTRIAL USE	ACTIVE
1633	SILBERLINE MFG CO INC	SILBERLINE MFG LANSFORD PLT	WELL 3	INDUSTRIAL USE	ACTIVE
2828	DEL MONTE CORP	DEL MONTE BLOOMSBURG PLT	WELL 2	INDUSTRIAL USE	ACTIVE
2828	DEL MONTE CORP	DEL MONTE BLOOMSBURG PLT	WELL 3	INDUSTRIAL USE	ACTIVE
2828	DEL MONTE CORP	DEL MONTE BLOOMSBURG PLT	WELL 5	INDUSTRIAL USE	ACTIVE
2828	DEL MONTE CORP	DEL MONTE BLOOMSBURG PLT	WELL 6	INDUSTRIAL USE	ACTIVE
2828	DEL MONTE CORP	DEL MONTE BLOOMSBURG PLT	WELL 4	INDUSTRIAL USE	ACTIVE
2828	DEL MONTE CORP	DEL MONTE BLOOMSBURG PLT	WELL 7	INDUSTRIAL USE	ACTIVE
2828	DEL MONTE CORP	DEL MONTE BLOOMSBURG PLT	WELL 1	INDUSTRIAL USE	ACTIVE
4280	LEIBYS DAIRY INC	LEIBYS DAIRY	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
4280	LEIBYS DAIRY INC	LEIBYS DAIRY	SPRING	INDUSTRIAL USE	ACTIVE
236805	ALTADIS USA INC	ALTADIS USA MCADOO PLT	WELL 5	INDUSTRIAL USE	ACTIVE
236805	ALTADIS USA INC	ALTADIS USA MCADOO PLT	WELL 6	INDUSTRIAL USE	ACTIVE
238511	BEMIS CO INC	BEMIS	WELL	INDUSTRIAL USE	ACTIVE
238511	STONE CONTAINER CORP	BEMIS	WELL	INDUSTRIAL USE	ACTIVE
240787	CHROMATEX INC	CHROMATEX	WELL 1	INDUSTRIAL USE	ACTIVE
240787	CHROMATEX INC	CHROMATEX	WELL	INDUSTRIAL USE	ACTIVE
243274	OFFSET PAPERBACK MANUFACTURERS INC	OFFSET PAPERBACK MFG	WELL 1	INDUSTRIAL USE	ACTIVE
243274	OFFSET PAPERBACK MANUFACTURERS INC	OFFSET PAPERBACK MFG	WELL 2	INDUSTRIAL USE	ACTIVE
243274	OFFSET PAPERBACK MANUFACTURERS INC	OFFSET PAPERBACK MFG	WELL 3	INDUSTRIAL USE	ACTIVE
243851	ROB BAR INC	BEAR CREEK INN	WELL 1	COMMERCIAL USE	ACTIVE
243972	VALLEY CC	VALLEY CC	PARKING LOT WELL	COMMERCIAL USE	ACTIVE
243972	VALLEY CC	VALLEY CC	DRINKING WATER WELL	COMMERCIAL USE	ACTIVE
243972	VALLEY CC	VALLEY CC	SHOP WELL	COMMERCIAL USE	ACTIVE
244229	LEHMAN GC	LEHMAN GC	WELL	COMMERCIAL USE	ACTIVE
245023	IREM TEMPLE AAONMS	IREM TEMPLE CC	WELL 1	COMMERCIAL USE	ACTIVE
245900	NATIVE TEXTILES	NATIVE TEXTILE	WITHDRAW WELL	INDUSTRIAL USE	INACTIVE
246578	FARMERS COOP DAIRY INC	FARMERS COOP DAIRY	WITHDRAW WELLS	INDUSTRIAL USE	ACTIVE
246657	JEBBON MFG CORP	JEBBON MFG	WITHDRAW WELL	INDUSTRIAL USE	INACTIVE

Table 2.4-49 {Ground Water Withdrawals Located Within a 25-Mile (40-km) Radius of BBNPP}

(Page 2 of 10)

SITE ID	ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
247996	AIR PROD & CHEM INC	AIR PROD & CHEM TAMAQUA PLT	BOOSTER PARK 1 NORTH	INDUSTRIAL USE	ACTIVE
248509	HEMLOCK VALLEY CAMPGROUND	HEMLOCK VALLEY CAMPGROUND	WELL 1	COMMERCIAL USE	ACTIVE
249531	UNIVERSAL FOREST PROD INC	UNIVERSAL FOREST PROD EASTERN DIV	PLANT WELL	INDUSTRIAL USE	ACTIVE
249531	UNIVERSAL FOREST PROD INC	UNIVERSAL FOREST PROD EASTERN DIV	OFFICE WELL	INDUSTRIAL USE	ACTIVE
249834	SCHULTZ ELECTROPLATING INC	SCHULTZ ELECTROPLATING	WITHD WELL	INDUSTRIAL USE	ACTIVE
249844	UAE COALCORP ASSOC	UAE COALCORP HARMONY MINE	WITHDRAWAL WELL	MINERAL USE	ACTIVE
250506	DIAMOND COAL CO INC	MAMMOTH ANTHRACITE LATTIMER BASIN MINE	MINE WITHDRAWAL	MINERAL USE	ACTIVE
250630	WHITE BIRCH GC INC	WHITE BIRCH GC	SPRG 1	COMMERCIAL USE	ACTIVE
252185	FED MOGUL CORP	WAGNER MFG	WELL 1A	COMMERCIAL USE	ACTIVE
252185	FED MOGUL CORP	WAGNER MFG	WELL 1B	COMMERCIAL USE	ACTIVE
252185	FED MOGUL CORP	WAGNER MFG	WELL 2A	COMMERCIAL USE	ACTIVE
252185	FED MOGUL CORP	WAGNER MFG	WELL 2B	COMMERCIAL USE	ACTIVE
252185	FED MOGUL CORP	WAGNER MFG	WELL 2C	COMMERCIAL USE	ACTIVE
252185	FED MOGUL CORP	WAGNER MFG	WELL 3A	COMMERCIAL USE	ACTIVE
252185	FED MOGUL CORP	WAGNER MFG	WELL 3B	COMMERCIAL USE	ACTIVE
252185	FED MOGUL CORP	WAGNER MFG	WELL 3C	COMMERCIAL USE	ACTIVE
252185	FED MOGUL CORP	WAGNER MFG	WELL 4A	COMMERCIAL USE	ACTIVE
252185	FED MOGUL CORP	WAGNER MFG	WELL 4B	COMMERCIAL USE	ACTIVE
252185	FED MOGUL CORP	WAGNER MFG	WELL 4C	COMMERCIAL USE	ACTIVE
252185	FED MOGUL CORP	WAGNER MFG	WELL 5A	COMMERCIAL USE	ACTIVE
252185	FED MOGUL CORP	WAGNER MFG	WELL 5B	COMMERCIAL USE	ACTIVE
252185	FED MOGUL CORP	WAGNER MFG	WELL 6A	COMMERCIAL USE	ACTIVE
252185	FED MOGUL CORP	WAGNER MFG	WELL 6B	COMMERCIAL USE	ACTIVE
252185	FED MOGUL CORP	WAGNER MFG	WELL 7B	COMMERCIAL USE	ACTIVE
252415	Unavailable	BODMAN GERALD J	SPRING WITHDRAWAL	AGRICULTURAL USE	ACTIVE
252415	Unavailable	BODMAN GERALD J	SPRING WITHDRAWAL	AGRICULTURAL USE	ACTIVE
253839	SMALL MTN QUARRY INC	PENNSY SUPPLY SMALL MTN QUARRY & SLUSSER BROS PLT	WELL 1	MINERAL USE	ACTIVE

Table 2.4-49 {Ground Water Withdrawals Located Within a 25-Mile (40-km) Radius of BBNPP}

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SITE ID	ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
253839	SMALL MTN QUARRY INC	PENNSY SUPPLY SMALL MTN QUARRY & SLUSSER BROS PLT	MINE DIV	MINERAL USE	ACTIVE
253994	SILVERBROOK ANTHRACITE INC	SILVERBROOK ANTHRACITE ALDEN BANK 1 MINE	A- SUR MINE WITHDRAWAL	MINERAL USE	ACTIVE
254020	SILVERBROOK ANTHRACITE INC	SILVERBROOK ANTHRACITE LAFLIN BANK MINE	MINE	MINERAL USE	ACTIVE
254524	WISE FOODS INC	WISE FOODS BERWICK SNACK FOOD PLT	WELL	INDUSTRIAL USE	ACTIVE
254535	BLOOMSBURG CARPET IND INC	BLOOMSBURG CARPET IND	TWO WITHDR WELLS	INDUSTRIAL USE	ACTIVE
254735	BRIAR HEIGHTS INC	ROLLING PINES GC WATER SYS	WELL 1	COMMERCIAL USE	ACTIVE
254735	BRIAR HEIGHTS INC	ROLLING PINES GC WATER SYS	WELL 2	COMMERCIAL USE	ACTIVE
254764	MILL RACE GOLF & CAMP RESORT INC	MILL RACE GC	CLUBHOUSE WELL	COMMERCIAL USE	ACTIVE
254764	MILL RACE GOLF & CAMP RESORT INC	MILL RACE GC	UPPER CAMPGROUND WELL	COMMERCIAL USE	ACTIVE
254764	MILL RACE GOLF & CAMP RESORT INC	MILL RACE GC	LOWER CAMPGROUND WELL	COMMERCIAL USE	ACTIVE
254764	MILL RACE GOLF & CAMP RESORT INC	MILL RACE GC	MAINTENANCE BUILDING WELL	COMMERCIAL USE	ACTIVE
254833	KLEERDEX CO	KLEERDEX	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
256133	SPRING HILL FARM INC	SPRINGHILL FARMS	WITH WELL	INDUSTRIAL USE	ACTIVE
257281	FROSTY VALLEY CC	FROSTY VALLEY CC WELL 1	WELL 1	COMMERCIAL USE	ACTIVE
257281	FROSTY VALLEY CC	FROSTY VALLEY CC WELL 1	WELL 2	COMMERCIAL USE	ACTIVE
257281	FROSTY VALLEY CC	FROSTY VALLEY CC WELL 1	CLUB HOUSE WELL	COMMERCIAL USE	ACTIVE
257281	FROSTY VALLEY CC	FROSTY VALLEY CC WELL 1	BARN WELL	COMMERCIAL USE	ACTIVE
257290	AMETEK CORPORATE OFC	AMETEK WESTCHESTER PLASTICS DIV	WELL 1	INDUSTRIAL USE	ACTIVE
257290	AMETEK CORPORATE OFC	AMETEK WESTCHESTER PLASTICS DIV	WELL 2	INDUSTRIAL USE	ACTIVE
257290	AMETEK CORPORATE OFC	AMETEK WESTCHESTER PLASTICS DIV	WELL 3	INDUSTRIAL USE	ACTIVE
257290	AMETEK CORPORATE OFC	AMETEK WESTCHESTER PLASTICS DIV	WELL 4	INDUSTRIAL USE	ACTIVE
257484	ALCOA KAMA INC	ALCOA KAMA	WELL	INDUSTRIAL USE	ACTIVE

Table 2.4-49 {Ground Water Withdrawals Located Within a 25-Mile (40-km) Radius of BBNPP}

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SITE ID	ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
257494	COATES ELECTROGRAPHICS INC	COATES ELECTROGRAPHICS	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
257496	CHEROKEE GC	CHEROKEE GC	CLUBHOUSE WELL	COMMERCIAL USE	ACTIVE
257496	CHEROKEE GC	CHEROKEE GC	MAINTENANCE BUILDING WELL	COMMERCIAL USE	ACTIVE
257496	CHEROKEE GC	CHEROKEE GC	RESTROOMS WELL	COMMERCIAL USE	ACTIVE
257496	CHEROKEE GC	CHEROKEE GC	ARARTMENT SOURCE WELL	COMMERCIAL USE	ACTIVE
257519	VALLEY ORDANCE	VALLEY ORDNANCE	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
257704	CARBONITE FILTER CORP	CARBONITE FILTER	WELL 1	MINERAL USE	ACTIVE
257704	CARBONITE FILTER CORP	CARBONITE FILTER	WELL	INDUSTRIAL USE	ACTIVE
258037	Unavailable	HETHERINGTON RAYMOND	SPRING	AGRICULTURAL USE	ACTIVE
258067	BARRETT HAENTJENS & CO	BARRETT HAENTJENS	WELL	INDUSTRIAL USE	ACTIVE
258134	OI NEG TV PROD INC	OI NEG TV PROD	WELL 1	INDUSTRIAL USE	ACTIVE
258153	COLUMBIA PORCH SHADE CO INC	COLUMBIA PORCH SHADE MFG	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
258164	BIROS IRON WORKS	BIROS IRON WORKS	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
258181	GEN CRUSHED STONE CO	GEN CRUSHED STONE WHITE HAVEN	WITHDRAWAL WELL	MINERAL USE	ACTIVE
258221	DRESHER FARMS	DRESHER FARMS	SPRING	AGRICULTURAL USE	ACTIVE
258288	FIBERITE INC	FIBERITE	WELL	INDUSTRIAL USE	ACTIVE
258664	DEL BAR SHEET METAL CO	DEL BAR SHEET METAL	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
258671	QUALITY METAL PROD INC	QUALITY METAL PROD MFG	WELL	INDUSTRIAL USE	ACTIVE
258676	AUDIMATION CORP	AUDIMATION	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
258700	BEAR RIDGE SHOPS INC	BEAR RIDGE SHOPS	WITHDR WELL	INDUSTRIAL USE	ACTIVE
258705	BOLYS IRON WORKS	BOLYS IRON WORKS	WITHDR SPRING	INDUSTRIAL USE	ACTIVE
258706	BRIEL TOOL & MACH WORKS	BRIEL TOOL & MACH WORKS PLT	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
258728	WILLIAM WENTZ INC	WILLIAM WENTZ	WELL	INDUSTRIAL USE	ACTIVE
258765	A & E RINGTOWN INC	A & E RINGTOWN	WELL	INDUSTRIAL USE	ACTIVE
258767	HILLAS FASHIONS	HILLAS FASHIONS	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
258842	HARMONY ASSOC INC	HARMONY ASSOC	WELL	INDUSTRIAL USE	ACTIVE
258870	TAMAQUA TRUCK & TRAILER INC	TAMAQUA TRUCK & TRAILER	WITH WELL	INDUSTRIAL USE	ACTIVE
258882	LIFESTYLE HOMES INC	LIFESTYE HOMES	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
258916	METCALF STEEL SVC	METCALF STEEL SVC	WITH WELL	INDUSTRIAL USE	ACTIVE

Table 2.4-49 {Ground Water Withdrawals Located Within a 25-Mile (40-km) Radius of BBNPP}

SITE ID	ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
258918	R MARTIN PLASTIC SPECIALTIES	R MARTIN PLASTIC SPECIALTIES	WELL	INDUSTRIAL USE	ACTIVE
258951	FIMBEL DOOR CORP	FIMBEL DOOR	WELL	INDUSTRIAL USE	ACTIVE
259004	MTN VALLEY GC	MT VALLEY GC	WELL 9	COMMERCIAL USE	ACTIVE
259004	MTN VALLEY GC	MT VALLEY GC	WELL 7	COMMERCIAL USE	ACTIVE
259004	MTN VALLEY GC	MT VALLEY GC	WELL 15	COMMERCIAL USE	ACTIVE
259013	JEDDO HIGHLAND COAL CO	ROSA BREAKER COAL PREP PLT	RAW MINE WATERING	MINERAL USE	INACTIVE
259018	READING ANTHRACITE CO	OLD ST NICHOLAS 4 & 5 READING ANTH	MINE WITHDRAWAL	MINERAL USE	ACTIVE
259029	THREE PONDS GC	THREE PONDS GOLF SHOP	CLUB HOUSE WELL	COMMERCIAL USE	ACTIVE
259047	Unavailable	LEIBY ROBERT C	SPRING	AGRICULTURAL USE	ACTIVE
259517	GROUSE HUNT FARMS INC	GROUSE HUNT FARMS	WELL	INDUSTRIAL USE	ACTIVE
259532	DRUMS SASH & DOOR CO INC	DRUMS SASH & DOOR MFG	WELL	INDUSTRIAL USE	ACTIVE
259635	CTL ASPHALT MATERIALS INC	CTL ASPHALT MATERIALS	TWO WITHDRAW WELLS	INDUSTRIAL USE	ACTIVE
260322	ROBERT W HART & SON INC	ROBERT W HART & SON MFG	WITH WELL	INDUSTRIAL USE	ACTIVE
260442	WYOMING VALLEY CC	WYOMING VALLEY CC POND	WELL 1	COMMERCIAL USE	ACTIVE
260505	GEN TANK INC	GEN TANK	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
260513	FOUNTAIN SPRINGS CC	FOUNTAIN SPRINGS WELL	WELL	COMMERCIAL USE	ACTIVE
260527	CUSTOM METAL PROD INC	CUSTOM METAL PROD	WITH WELL	INDUSTRIAL USE	ACTIVE
261208	HAZEL PARK PACKING CO	HAZEL PARK PACKING	WELL	INDUSTRIAL USE	ACTIVE
261223	THREE SPRINGS WATER CO	THREE SPRINGS BOTTLED WATER PLT	SPRING 1	INDUSTRIAL USE	ACTIVE
261815	GERALD & LEWIS NAUGLE	READING MAT PIT 1 QUARRY	WITHDRAWAL WELL	MINERAL USE	ACTIVE
262675	ST JUDE POLYMER CORP	ST JUDE POLYMER FILW & CW	WELL	INDUSTRIAL USE	ACTIVE
263358	COLUMBIA ASPHALT CORP	HANSON AGGREGATES PA BLOOMSBURG QUARRY	WELL 1	INDUSTRIAL USE	ACTIVE
263358	HANSON AGGREGATES PENNSYLVANIA INC	HANSON AGGREGATES PA BLOOMSBURG QUARRY	DUST CONTROL WELL	MINERAL USE	ACTIVE
263358	HANSON AGGREGATES PENNSYLVANIA INC	HANSON AGGREGATES PA BLOOMSBURG QUARRY	SANITARY WELL	MINERAL USE	ACTIVE
263363	HANSON AGGREGATES PENNSYLVANIA INC	HANSON AGGREGATES PA BLOOMSBURG S & G QUARRY	S & G PIT WATER	MINERAL USE	ACTIVE
263363	HANSON AGGREGATES PENNSYLVANIA INC	HANSON AGGREGATES PA BLOOMSBURG S & G QUARRY	WELLS	MINERAL USE	ACTIVE

Table 2.4-49 {Ground Water Withdrawals Located Within a 25-Mile (40-km) Radius of BBNPP}
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SITE ID	ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
263385	FOX HILL CC	FOX HILL CC FILW	HALF WAY WELL	COMMERCIAL USE	ACTIVE
264419	Unavailable	SWEET VALLEY GC	WITHDRAW WELL	COMMERCIAL USE	ACTIVE
271128	BEAR GAP STONE INC	BEAR GAP QUARRY	FRESH WATER	MINERAL USE	ACTIVE
271224	BARLETTA MATERIALS & CONST INC	BARLETTA HONEY HOLE QUARRY	LAB WELL 2	INDUSTRIAL USE	ACTIVE
445219	NORTHAMPTON FUEL SUPPLY CO INC	NORTHAMPTON FUEL SUPPLY PROSPECT MINE	LOCAL MINE POOL	MINERAL USE	ACTIVE
445826	KELLY INVESTORS INC	KELLY INVESTORS KELLY 1 MINE	WELL WITHDRAWAL	MINERAL USE	INACTIVE
446877	NORTHAMPTON FUEL SUPPLY CO INC	NORTHAMPTON FUEL SUPPLY LOOMIS MINE	UNDERGROUND WELL	MINERAL USE	ACTIVE
447086	BALD EAGLE COAL CO INC	BALD EAGLE COAL WHITE PINE MINE	DEWATERING	MINERAL USE	INACTIVE
447145	BLASCHAK COAL CORP	BLASCHAK COAL ST NICHOLAS MINE	MINE POOL	MINERAL USE	ACTIVE
447978	LEHIGH COAL & NAVIGATION CO	LEHIGH COAL & NAVIGATION LCN MINE	MINE 10 DIV	MINERAL USE	ACTIVE
447978	LEHIGH COAL & NAVIGATION CO	LEHIGH COAL & NAVIGATION LCN MINE	MINE SPRINGDALE WELL	MINERAL USE	ACTIVE
447978	LEHIGH COAL & NAVIGATION CO	LEHIGH COAL & NAVIGATION LCN MINE	MINE 14	MINERAL USE	ACTIVE
447978	LEHIGH COAL & NAVIGATION CO	LEHIGH COAL & NAVIGATION LCN MINE	RT 309 DISCHARGE	MINERAL USE	ACTIVE
448087	JAC MAR COAL CO TA L & E COAL	L & E COAL JAC MAR MINE	WITHDRAWAL SURFACE MINE	MINERAL USE	ACTIVE
448323	AMER ASPHALT PAVING CO	AMER ASPHALT CHASE QUARRY	MINE WITHDRAWAL	MINERAL USE	ACTIVE
448936	ANDREAS LUMBER INC	ANDREAS LUMBER	SPRING	INDUSTRIAL USE	ACTIVE
448937	BARTSEN MEDIA INC	BARTSEN MEDIA	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
448963	GRANT CONCRETE PROD	GRANT CONCRETE PROD	WITH WELL	INDUSTRIAL USE	ACTIVE
448964	PRECISION TOOL & MACH CO	PRECISION TOOL & MACH	WITH WELL	INDUSTRIAL USE	ACTIVE
448965	COUNTRY COUSINS SHOES INC	COUNTRY COUSINS SHOES	WELL	INDUSTRIAL USE	ACTIVE
448968	BRUCH EYE CARE ASSOCS	BRUCH EYE CARE ASSOCS	WITH WELL	INDUSTRIAL USE	ACTIVE
449001	RIVERVIEW VIBRATED BLOCK CO	RIVERVIEW BLOCK MFG	WITH WELL	INDUSTRIAL USE	ACTIVE

Table 2.4-49 {Ground Water Withdrawals Located Within a 25-Mile (40-km) Radius of BBNPP}

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SITE ID	ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
449006	WEATHERLY CASTING & MACH CO	WEATHERLY CASTING & MACH MFG	WELL	INDUSTRIAL USE	ACTIVE
449057	INTERCOAL INC	INTERCOAL COAL PREP PLT	WELL	MINERAL USE	ACTIVE
450346	GALE COAL CO INC	GALE COAL E KASKA MINE	DEWATERING	MINERAL USE	INACTIVE
450409	BEAVER BROOK COAL CO	BEAVER BROOK COAL MINE	QUARRY WITHDRAWAL	MINERAL USE	ACTIVE
450734	HUNLOCK SAND & GRAVEL CO	HUNLOCK QUARRY	WELL 1	MINERAL USE	ACTIVE
457134	BLOOMSBURG MILLS INC	BLOOMSBURG MILLS	THREE WITHDR WELLS	INDUSTRIAL USE	ACTIVE
457138	MILLVILLE PROD	MILLVILLE PROD	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
457207	PA ALUM	PA ALUM	WITHDR WELL	INDUSTRIAL USE	ACTIVE
457208	BRUCE CHARLES SAWMILL	BRUCE CHARLES SAWMILL	WITHDR WELL	INDUSTRIAL USE	ACTIVE
457267	NATL SELECT FABRICS CORP	NATL SELECT FABRICS	WELL 1	INDUSTRIAL USE	ACTIVE
457267	NATL SELECT FABRICS CORP	NATL SELECT FABRICS	WELL 2	INDUSTRIAL USE	ACTIVE
457268	CATAWISSA LUMBER & SPECIALTY CO	CATAWISSA LUMBER MILL	WELL	INDUSTRIAL USE	ACTIVE
457269	BOSTON FARM PROD	BOSTON FARM PROD	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
457270	DEIHL VAULT & PRECAST	DEIHL VAULT & PRECAST	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
457272	BRIAR KNITTING MILLS	BRIAR KNITTING MILLS	WELL	INDUSTRIAL USE	ACTIVE
457273	WILKES POOL CORP	WILKES POOL	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
457274	HESS READY MIX INC	HESS READY MIX	WELL	INDUSTRIAL USE	ACTIVE
457275	S & B FOUNDRY CO	BLOOMSBURG FOUNDRY	WELL	INDUSTRIAL USE	ACTIVE
457276	HOCK TRANSIT MIX CONCRETE INC	HOCK TRANSIT MIX CONCRETE	WELL	INDUSTRIAL USE	ACTIVE
457288	GREENLEAF CROP PROD SVC	GREENLEAF CROP PROD SVC	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
457336	FRONT STREET FASHIONS	FRONT STREET FASHIONS	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
457337	BROCKMAN SHEET METAL	BROCKMAN SHEET METAL	WITHD SPRING	INDUSTRIAL USE	ACTIVE
457338	FARR LUMBER	FARR LUMBER	WELL	INDUSTRIAL USE	ACTIVE
457339	CROP PROD SVC INC	CROP PROD SVC	WITH WELL	INDUSTRIAL USE	ACTIVE
457340	PA COMBINING CORP	PA COMBINING	WITH WELL	INDUSTRIAL USE	ACTIVE
457341	RANGER IND	RANGER IND	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
457347	CUSTOM FABRICATION CO	CUSTOM FABRICATION	WITH WELL	INDUSTRIAL USE	ACTIVE
457349	GENSEMERS CUSTOM PROC	GENSEMERS CUSTOM PROC	WELL	INDUSTRIAL USE	ACTIVE
457426	LITTLE LUMBER CO INC	LITTLE LUMBER	WELL	INDUSTRIAL USE	ACTIVE
457430	CALIFORNIA EAST	CA EAST	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE

Table 2.4-49 {Ground Water Withdrawals Located Within a 25-Mile (40-km) Radius of BBNPP}

SITE ID	ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
457444	EXPLO TECH	EXPLO TECH	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
457529	R & R ENERGY CORP	R & R ENERGY COAL PREP PLT	MINE WATER WITHDRAWAL	MINERAL USE	INACTIVE
457564	KLINGERMAN GALLICK AG SVC INC	MAINVILLE AG SVC	WITH WELL	INDUSTRIAL USE	ACTIVE
457609	BERWICK WEAVING INC	BERWICK WEAVING	WELL 1	INDUSTRIAL USE	ACTIVE
457629	COLUMBIA GRAPHICS INC	COLUMBIA GRAPHICS	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
457642	HARRELL AUTOMATIC SPRINKLER CO	HARRELL AUTOMATIC SPRINKLER	WELL	INDUSTRIAL USE	ACTIVE
458364	WAGNERS FRUIT FARM	WAGNERS FRUIT FARM	WELL WITHDRAWAL	AGRICULTURAL USE	ACTIVE
458364	WAGNERS FRUIT FARM	WAGNERS FRUIT FARM	SPRING WITHDRAWAL	AGRICULTURAL USE	ACTIVE
458368	STREATER & SON INC	STREATER & SON	GROUND WITHDRAWA	AGRICULTURAL USE	ACTIVE
458370	SEESHOLTZ BROS INC	SEESHOLTZ BROS	SPRING WITHDRAWAL	AGRICULTURAL USE	ACTIVE
458370	SEESHOLTZ BROS INC	SEESHOLTZ BROS	QUARRY WITHDRAWAL	AGRICULTURAL USE	ACTIVE
458374	Unavailable	FETTERMAN EUGENE	SPRING WITHDRAWAL	AGRICULTURAL USE	ACTIVE
458592	BENTON FOUNDRY INC	BENTON FOUNDRY	WELL 1	INDUSTRIAL USE	ACTIVE
458703	IA CONST CORP	GROVANIA ASPHALT PLT	WELL	INDUSTRIAL USE	INACTIVE
459332	PHILA CITY TRUSTEE GIRARD ESTATE	PHILA CONTINENTAL MINE	MINE DEWATERING PUMP 1	MINERAL USE	ACTIVE
459332	PHILA CITY TRUSTEE GIRARD ESTATE	PHILA CONTINENTAL MINE	MINE DEWATERING PUMP 2	MINERAL USE	ACTIVE
461656	Unavailable	COLLINS TOOL CORP	WELL	INDUSTRIAL USE	ACTIVE
471870	INTERSIL CORP	FAIRCHILD SEMICONDUCTOR MOUNTAINTOP PLT	RCA WELL	INDUSTRIAL USE	ACTIVE
481054	EMERALD ANTHRACITE II	HUD TA EMERALD ANTHRACITE	WITHDRAWAL WELLS	MINERAL USE	ACTIVE
481054	EMERALD ANTHRACITE II	HUD TA EMERALD ANTHRACITE	MINE WITHDRAWAL	MINERAL USE	ACTIVE
490902	TEE TO GREEN GOLF CTR	TEE TO GREEN GC MFG	WELL	INDUSTRIAL USE	ACTIVE
490961	HOLOVIAKS CH SUPPLY INC	HOLOVIAKS CH SUPPLY MFG	WELL	INDUSTRIAL USE	ACTIVE
491027	DAVIS TROPHIES	DAVIS TROPHIES MFG	WELL	INDUSTRIAL USE	ACTIVE
491078	BURTAM CORP	BLUE RIDGE TRAIL GC	WELL 2	COMMERCIAL USE	ACTIVE
491078	BURTAM CORP	BLUE RIDGE TRAIL GC	WELL 1	COMMERCIAL USE	ACTIVE
491096	HIGHWAY EQUIP & SUPPLY CO	HWY EQUIP & SUPPLY MFG	WELL	INDUSTRIAL USE	ACTIVE
491105	DURABOND CORP	DURABOND CARPET UNDERLAY MFG	WELL	INDUSTRIAL USE	ACTIVE

Table 2.4-49 {Ground Water Withdrawals Located Within a 25-Mile (40-km) Radius of BBNPP}

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SITE ID	ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
495513	EAGLE ROCK COMM ASSOC INC	EAGLE ROCK RESORT	WELL C	COMMERCIAL USE	ACTIVE
495513	EAGLE ROCK COMM ASSOC INC	EAGLE ROCK RESORT	WELL A	COMMERCIAL USE	ACTIVE
508540	GENECO SVC INC	GENECO SVC	WITHDR WELL	INDUSTRIAL USE	ACTIVE
511126	WEIR HAZLETON INC	HAZLETON CASTING	WELL	INDUSTRIAL USE	ACTIVE
515571	CASTEK INC	CASTEK	WELL 1	INDUSTRIAL USE	ACTIVE
517060	BRADFORD CLOCKS LTD	BRADFORD CLOCKS	WITHD WELL	INDUSTRIAL USE	ACTIVE
533454	READING MATERIALS INC	HAINES & KIBBLEHOUSE PIKES CREEK ASPHALT	POND MAKEUP WELL	MINERAL USE	ACTIVE
533454	READING MATERIALS INC	HAINES & KIBBLEHOUSE PIKES CREEK ASPHALT	PRIMARY PLANT WELL	MINERAL USE	ACTIVE
533454	READING MATERIALS INC	HAINES & KIBBLEHOUSE PIKES CREEK ASPHALT	SCALEHOUSE WELL	MINERAL USE	ACTIVE
533454	READING MATERIALS INC	HAINES & KIBBLEHOUSE PIKES CREEK ASPHALT	GARAGE WELL	MINERAL USE	ACTIVE
533454	READING MATERIALS INC	HAINES & KIBBLEHOUSE PIKES CREEK ASPHALT	PORTABLE PLANT WELL	MINERAL USE	ACTIVE
542892	FABCON EAST CORP LLC	FABCON E	WELL 2	INDUSTRIAL USE	ACTIVE
543444	GROUP MTN SPRINGS	TULPEHOCKEN SPRINGS	BH-1	INDUSTRIAL USE	ACTIVE
549903	HOLLYWOOD MILLWORK	HOLLYWOOD MILLWORK	WELL	INDUSTRIAL USE	ACTIVE
549917	PRECISION LITHO GRAPHICS	PRECISION LITHO GRAPHICS	WELL	INDUSTRIAL USE	ACTIVE
549930	MC BON CORP	MC BON	WELL	INDUSTRIAL USE	ACTIVE
549934	SUGARLOAF PRINT SHOP	SUGARLOAF PRINT SHOP	WELL	INDUSTRIAL USE	ACTIVE
549960	BEACH MACH & GEAR	BEACH MACH & GEAR	WELL	INDUSTRIAL USE	ACTIVE
571024	DILLON FLORAL CORP	DILLON FLORAL	WELL 1	AGRICULTURAL USE	ACTIVE
580619	KAREN MFG CO INC	KAREN MFG	WITHDRAW WELL	INDUSTRIAL USE	INACTIVE
656391	KOCHS TURKEY FARM	KOCHS TURKEY FARM WALKER TWP SCHUYLKILL CNTY	GROUND WATER HATCHERY	AGRICULTURAL USE	ACTIVE
656391	KOCHS TURKEY FARM	KOCHS TURKEY FARM WALKER TWP SCHUYLKILL CNTY	GROUND WATER WELL 4	AGRICULTURAL USE	ACTIVE
656391	KOCHS TURKEY FARM	KOCHS TURKEY FARM WALKER TWP SCHUYLKILL CNTY	GROUNDWATER UPPER	AGRICULTURAL USE	ACTIVE
658498	PA FISH & BOAT COMM FISHERIES BUR	BEAVER TWP ROD & GUN CLUB COLUMBIA CNTY	UNNAMED SPRING TRIBUTARY TO SCOTCH RUN	AGRICULTURAL USE	ACTIVE

Table 2.4-49 {Ground Water Withdrawals Located Within a 25-Mile (40-km) Radius of BBNPP}

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SITE ID	ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
659375	Unavailable	RAY LEVAN FARM LOCUST TWP COLUMBIA CNTY	SPRING 1	AGRICULTURAL USE	ACTIVE
659375	Unavailable	RAY LEVAN FARM LOCUST TWP COLUMBIA CNTY	WELL 1	AGRICULTURAL USE	ACTIVE
659800	Unavailable	ROBERT E KARNES FARM LOCUST TWP COLUMBIA CNTY	WELL AT HOUSE	AGRICULTURAL USE	ACTIVE
659800	Unavailable	ROBERT E KARNES FARM LOCUST TWP COLUMBIA CNTY	WELL AT BARN	AGRICULTURAL USE	ACTIVE
659877	Unavailable	PAUL R LEVAN & SONS FARM LOCUST TWP COLUMBIA CNTY	WELL 1	AGRICULTURAL USE	ACTIVE
660023	BISON MEADOWS LLC	BISON MEADOWS FARM BLYTHE TWP SCHUYLKILL CNTY	SPRING 1	AGRICULTURAL USE	ACTIVE
660303	HAZLETON MATERIALS LLC	HAZLETON MATERIALS FOSTER TWP LUZERNE CNTY	PRODUCTION WELL	MINERAL USE	ACTIVE
660303	HAZLETON MATERIALS LLC	HAZLETON MATERIALS FOSTER TWP LUZERNE CNTY	SCALEHOUSE WELL	MINERAL USE	ACTIVE
660303	HAZLETON MATERIALS LLC	HAZLETON MATERIALS FOSTER TWP LUZERNE CNTY	WASH PLANT WELL	MINERAL USE	ACTIVE
660687	Unavailable	WINSTON A JARRARD FARM ROARING CREEK TWP COLUMBIA CNTY	WELL 1	AGRICULTURAL USE	ACTIVE
660969	R VALLEY FARMS	R VALLEY FARMS BEAVER TWP COLUMBIA CNTY	WELL 1	AGRICULTURAL USE	ACTIVE
661881	SETON MANOR INC	SETON MANOR RUSH TWP SCHUYLKILL CNTY	BOOSTER PARK 1 NORTH (WELL)	COMMERCIAL USE	ACTIVE
661881	SETON MANOR INC	SETON MANOR RUSH TWP SCHUYLKILL CNTY	BOOSTER PARK 2 SOUTH (WELL)	COMMERCIAL USE	ACTIVE
677497	GROUP MTN SPRINGS	SUGARLOAF MTN SPRINGS BENTON TWP COLUMBIA CNTY	SUGARLOAF MOUNTAIN SPRING	INDUSTRIAL USE	ACTIVE

Table 2.4-50 {Ground Water Withdrawals Located Within a 5-Mile (8-km) Radius of BBNPP}

ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
ROBERT W HART & SON INC	ROBERT W HART & SON MFG	WITH WELL	INDUSTRIAL USE	ACTIVE
LIFESTYLE HOMES INC	LIFESTYE HOMES	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
GEN TANK INC	GEN TANK	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
BERWICK WEAVING INC	BERWICK WEAVING	WELL 1	INDUSTRIAL USE	ACTIVE
RIVERVIEW VIBRATED BLOCK CO	RIVERVIEW BLOCK MFG	WITH WELL	INDUSTRIAL USE	ACTIVE
BROCKMAN SHEET METAL	BROCKMAN SHEET METAL	WITHD SPRING	INDUSTRIAL USE	ACTIVE
BEACH MACH & GEAR	BEACH MACH & GEAR	WELL	INDUSTRIAL USE	ACTIVE
BARLETTA MATERIALS & CONST INC	BARLETTA HONEY HOLE QUARRY	LAB WELL 2	INDUSTRIAL USE	ACTIVE
AUDIMATION CORP	AUDIMATION	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
ANDREAS LUMBER INC	ANDREAS LUMBER	SPRING	INDUSTRIAL USE	ACTIVE
COUNTRY COUSINS SHOES INC	COUNTRY COUSINS SHOES	WELL	INDUSTRIAL USE	ACTIVE
DURABOND CORP	DURABOND CARPET UNDERLAY MFG	WELL	INDUSTRIAL USE	ACTIVE
CASTEK INC	CASTEK	WELL 1	INDUSTRIAL USE	ACTIVE

Table 2.4-51 {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

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PWSID	SYSTEM NAME	STATUS	SYSTEM TYPE	POPULATION SERVED
Luzerne County				
2400001	RIVERVIEW VILLAGE MHP	ACTIVE	COMMUNITY	175
2400002	NOCCHI'S TRAILER COURT	INACTIVE	COMMUNITY	117
2400003	ECHO VALLEY MHP	ACTIVE	COMMUNITY	240
2400004	SUNSET TERRACE	INACTIVE	COMMUNITY	38
2400005	PINE VALLEY	INACTIVE	COMMUNITY	23
2400006	HIGH POINT ACRES ASSN	INACTIVE	COMMUNITY	52
2400007	BRYANTS MHP	ACTIVE	COMMUNITY	50
2400008	TOWER 80 81 LLC	ACTIVE	COMMUNITY	115
2400010	BARRINGTON APARTMENT	INACTIVE	COMMUNITY	42
2400011	ALWAYS WATER CO %WM DEANGELO	INACTIVE	COMMUNITY	63
2400012	AQUA PA FIELDCREST	ACTIVE	COMMUNITY	110
2400014	PINE GROVE APARTMENTS	INACTIVE	COMMUNITY	52
2400015	MILNESVILLE #7 WATER ASSOC.	INACTIVE	COMMUNITY	23
2400016	PARDEESVILLE WATER SYS	INACTIVE	COMMUNITY	220
2400017	CHASE MANOR WATER ASSOC.	ACTIVE	COMMUNITY	95
2400018	AQUA PA MAPLECREST	INACTIVE	COMMUNITY	56
2400019	AG-MAR ESTATES	INACTIVE	COMMUNITY	34
2400021	LAUREL RUN WATER ASSOC	INACTIVE	COMMUNITY	100
2400022	SKYWAY MHP	ACTIVE	COMMUNITY	40
2400023	KEYSTONE JOB CORPS CENTER	ACTIVE	COMMUNITY	950
2400024	BONHAM NURSING CENTER	ACTIVE	COMMUNITY	76
2400026	PENN ST WILKES BARRE CAMPUS	ACTIVE	COMMUNITY	1,278
2400027	LAKESIDE NURSING HOME	ACTIVE	COMMUNITY	91
2400029	AQUA PA SHICKSHINNY LAKE	ACTIVE	COMMUNITY	126
2400030	MAPLE KNOLL ASSN	INACTIVE	COMMUNITY	91
2400031	4 SEASONS ESTATES	ACTIVE	COMMUNITY	98
2400032	HOWARD IDE	INACTIVE	COMMUNITY	5
2400033	COUNTRY MANOR	INACTIVE	COMMUNITY	31
2400034	LAUREL RUN ESTATES	ACTIVE	COMMUNITY	340
2400035	LAKEVIEW MANOR	INACTIVE	COMMUNITY	27
2400036	COUNTRY CREST MHP	ACTIVE	COMMUNITY	150
2400037	LAND FARM, INC.	INACTIVE	COMMUNITY	42
2400038	VALLEY STREAM MHP	ACTIVE	COMMUNITY	300
2400039	HANSON PARK MHP	ACTIVE	COMMUNITY	126
2400040	HOLLY LYNN MOBILE HOME COURT	INACTIVE	COMMUNITY	80
2400041	COUNTRY VILLAGE MHP	ACTIVE	COMMUNITY	140
2400042	BEECHCREST MHP	ACTIVE	COMMUNITY	33
2400043	PLEASANT VIEW MHP	ACTIVE	COMMUNITY	75
2400044	R KASHMER MOBILEHOME PARK	INACTIVE	COMMUNITY	8
2400045	AQUA PA SHICKSHINNY APACHE	ACTIVE	COMMUNITY	140
2400046	COUNTRY ESTATES MHP	ACTIVE	COMMUNITY	33
2400047	BEECH MOUNTAIN LAKES	INACTIVE	COMMUNITY	3,930
2400048	CONYNGHAM WATER CO	ACTIVE	COMMUNITY	1,932

Table 2.4-51 {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

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PWSID	SYSTEM NAME	STATUS	SYSTEM TYPE	POPULATION SERVED
2400049	EVERGREEN MHP	ACTIVE	COMMUNITY	140
2400050	COUNTRY PINE ESTATES	ACTIVE	COMMUNITY	90
2400051	VALLEY VIEW MHP	ACTIVE	COMMUNITY	846
2400052	DALLAS MHP	ACTIVE	COMMUNITY	65
2400053	AQUA PA HEX ACRES	ACTIVE	COMMUNITY	278
2400054	FREELAND BORO MUNI WATER AUTH	ACTIVE	COMMUNITY	4,610
2400055	MAPLE LANE ESTATE	ACTIVE	COMMUNITY	200
2400056	WHITEBREAD WATER CO	INACTIVE	COMMUNITY	50
2400057	KAWON INC D. YANUZZI OPER MAN	INACTIVE	COMMUNITY	90
2400060	SWEET VALLEY MHP	ACTIVE	COMMUNITY	43
2400063	WHIPPORWILL MHP	ACTIVE	COMMUNITY	25
2400064	SLEEPY HOLLOW MOBILE HOME PARK	INACTIVE	COMMUNITY	21
2400066	AQUA PA WAPWALLOPEN	ACTIVE	COMMUNITY	239
2400067	AQUA PA TAMBUR	ACTIVE	COMMUNITY	110
2400068	HYLAND MHP	ACTIVE	COMMUNITY	70
2400070	PAWC HILLCREST	ACTIVE	COMMUNITY	125
2400072	PAWC HOMESITE	ACTIVE	COMMUNITY	55
2400073	BROWN MANOR	ACTIVE	COMMUNITY	91
2400074	GRANDVIEW WATER COMPANY	INACTIVE	COMMUNITY	300
2400075	PARKWAY WCO.	INACTIVE	COMMUNITY	750
2400076	UNITED WATER PA DALLAS	ACTIVE	COMMUNITY	5,113
2400078	AQUA PA FOREST PARK	ACTIVE	COMMUNITY	335
2400079	AQUA PA PENN LAKE	ACTIVE	COMMUNITY	70
2400081	MOCANAQUA WATER COMPANY	INACTIVE	COMMUNITY	960
2400082	OVERBROOK WATER COMPANY	ACTIVE	COMMUNITY	298
2400083	AQUA PA APPLEWOOD	ACTIVE	COMMUNITY	82
2400084	HADDONFIELD HILLS WATER CO.	INACTIVE	COMMUNITY	40
2400085	AQUA PA BARRETT	ACTIVE	COMMUNITY	150
2400086	INDIAN SPRINGS WATER CO	ACTIVE	COMMUNITY	133
2400089	AQUA PA GARBUSH	ACTIVE	COMMUNITY	160
2400090	SCI DALLAS	ACTIVE	COMMUNITY	2,488
2400091	UNITED WATER PA SHAVERTOWN	ACTIVE	COMMUNITY	3,035
2400092	PAWC SHAVERTOWN/KINGSTON W. CO	INACTIVE	COMMUNITY	323
2400093	AQUA PA MEADOWCREST	INACTIVE	COMMUNITY	1,000
2400095	AQUA PA OAKHILL	ACTIVE	COMMUNITY	486
2400096	TOWN & COUNTRY MANOR ASSOC	ACTIVE	COMMUNITY	76
2400101	AQUA PA RHODES TERRACE	ACTIVE	COMMUNITY	50
2400102	AQUA PA WARDEN PLACE	ACTIVE	COMMUNITY	275
2400103	UNITED WATER PA HARVEY’S LAKE	ACTIVE	COMMUNITY	200
2400104	AQUA PA MIDWAY SYSTEM	ACTIVE	COMMUNITY	1,793
2400105	MIDAY MANOR HARRIS HILL	INACTIVE	COMMUNITY	75
2400107	ORCHARD EAST WATER ASSOC	ACTIVE	COMMUNITY	100
2400108	AQUA PA WHITE HAVEN	ACTIVE	COMMUNITY	1,200
2400109	WHITE HAVEN CENTER	ACTIVE	COMMUNITY	620

Table 2.4-51 {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

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PWSID	SYSTEM NAME	STATUS	SYSTEM TYPE	POPULATION SERVED
2400110	COUNTRY CLUB APTS	ACTIVE	COMMUNITY	240
2400111	AQUA PA LAUREL LAKES VILLAGE	ACTIVE	COMMUNITY	380
2400113	ORCHARD WEST WATER ASSOC.	ACTIVE	COMMUNITY	90
2400114	BEECH MOUNTAIN	ACTIVE	COMMUNITY	1,375
2400115	MEADOWS COMPLEX	ACTIVE	COMMUNITY	280
2400116	FRITZINGERTOWN SR LIV COMM #1	ACTIVE	COMMUNITY	66
2400117	BUTLER VALLEY MANOR	ACTIVE	COMMUNITY	90
2400118	BEAR CREEK HEALTH CARE CENTER	INACTIVE	COMMUNITY	36
2400119	MAPLE HILL MANOR	INACTIVE	COMMUNITY	26
2400120	MOUNTAINSIDE MANOR	INACTIVE	COMMUNITY	60
2400121	LAKEVIEW TERRACE ASSN	INACTIVE	COMMUNITY	150
2400122	NORTH LAKE WATER TRUST	INACTIVE	COMMUNITY	25
2400123	HICKORY LANE MANOR	INACTIVE	COMMUNITY	38
2400124	MEADOWS 1 NEWBERRY ESTATES	INACTIVE	COMMUNITY	50
2400125	AQUA PA SUNRISE ESTATES	ACTIVE	COMMUNITY	162
2400126	VALLEY GORGE MOBILE HOME PARK	ACTIVE	COMMUNITY	58
2400128	SUTTON HILLS LTD	ACTIVE	COMMUNITY	210
2400129	LAUREL PERSONAL CARE CENTER	INACTIVE	COMMUNITY	60
2400131	FERNWOOD MANOR	ACTIVE	COMMUNITY	26
2400132	WOODHAVEN WATER COMPANY	INACTIVE	COMMUNITY	47
2400134	CHERONES MOBILEHOME PARK	INACTIVE	COMMUNITY	74
2400135	AQUA PA CEDAR LANE	INACTIVE	COMMUNITY	98
2400136	SANDY RUN ASSOC	ACTIVE	COMMUNITY	47
2400138	COLLEGE MISERICORDIA	INACTIVE	COMMUNITY	1,400
2400139	FRITZINGERTOWN SR LIV COMM #2	ACTIVE	COMMUNITY	118
2400140	SAND SPRINGS	ACTIVE	COMMUNITY	630
2400141	SLEEPY HOLLOW	ACTIVE	COMMUNITY	45
2400142	HILLSIDE CONDOMINIUMS	ACTIVE	COMMUNITY	50
2400143	ZACKS ROCK GLEN MANOR	ACTIVE	COMMUNITY	36
2400144	AQUA PA ST JOHNS ESTATES	ACTIVE	COMMUNITY	75
2400145	SISTERS OF MERCY	ACTIVE	COMMUNITY	135
2400146	PROVIDENCE PLACE OF HAZLETON	ACTIVE	COMMUNITY	140
2400147	AQUA PA GREENBRIAR	ACTIVE	COMMUNITY	28
2400300	ANNA’S PLACE	INACTIVE	TRANSIENT NONCOMM	40
2400301	SMITTY’S MIDWAY	ACTIVE	TRANSIENT NONCOMM	50
2400302	MARGLE’S RESTAURANT	INACTIVE	TRANSIENT NONCOMM	40
2400303	SALLY PURSELL’S COUNTRY INN	ACTIVE	TRANSIENT NONCOMM	25
2400304	SUGARLOAF GOLF CLUB	ACTIVE	TRANSIENT NONCOMM	75
2400305	MEL ROE’S RESTAURANT	ACTIVE	TRANSIENT NONCOMM	100
2400306	LAKEVIEW LOG CABIN	INACTIVE	TRANSIENT NONCOMM	25
2400307	SHADY REST RESTAURANT & BAR	INACTIVE	TRANSIENT NONCOMM	100
2400308	DAMENTIS RESTAURANT	ACTIVE	TRANSIENT NONCOMM	50
2400309	STAGE COACH INN	ACTIVE	TRANSIENT NONCOMM	30
2400310	ANGELA PARK	INACTIVE	TRANSIENT NONCOMM	85

Table 2.4-51 {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

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PWSID	SYSTEM NAME	STATUS	SYSTEM TYPE	POPULATION SERVED
2400311	VALLEY HOTEL	INACTIVE	TRANSIENT NONCOMM	50
2400312	SUN VALLEY DINER	INACTIVE	TRANSIENT NONCOMM	100
2400313	EVANS ROADHOUSE	ACTIVE	TRANSIENT NONCOMM	55
2400314	DANOS BAR	ACTIVE	TRANSIENT NONCOMM	25
2400316	PARTNER’S LOUNGE	INACTIVE	TRANSIENT NONCOMM	30
2400318	MOUNTAINVIEW RESTAURANT	INACTIVE	TRANSIENT NONCOMM	230
2400319	BUTLER TWP FIRE CO	ACTIVE	TRANSIENT NONCOMM	40
2400320	SNYDERS BACKSTREET PUB	ACTIVE	TRANSIENT NONCOMM	35
2400321	PLANET POCONO	ACTIVE	TRANSIENT NONCOMM	25
2400322	RED BARN INC	ACTIVE	TRANSIENT NONCOMM	25
2400323	WILKES BARRE MUNIC GOLF COURSE	ACTIVE	TRANSIENT NONCOMM	225
2400324	INDIAN TRAIL INN	INACTIVE	TRANSIENT NONCOMM	25
2400325	GIULIANOS RESTAURANT INC	INACTIVE	TRANSIENT NONCOMM	170
2400326	BEAR CREEK INNE	ACTIVE	TRANSIENT NONCOMM	60
2400327	CASINO COUNTRYSIDE INN	ACTIVE	TRANSIENT NONCOMM	44
2400328	KNOTTY PINE INN	INACTIVE	TRANSIENT NONCOMM	70
2400329	JOSEPH AND FLORENCE ROMANOSKI	INACTIVE	TRANSIENT NONCOMM	40
2400330	VALLEY COUNTRY CLUB	INACTIVE	NONTRANSIENT NONCOMM	100
2400331	TOP OF THE 90’S	INACTIVE	TRANSIENT NONCOMM	100
2400332	VALLEY BOWLING LANES	ACTIVE	TRANSIENT NONCOMM	70
2400333	DONAHUE’S FROGTOWNE GRILL	ACTIVE	TRANSIENT NONCOMM	60
2400334	SUGARLOAF FIRE DEPT WATER SYS	INACTIVE	TRANSIENT NONCOMM	50
2400335	SUGARLOAF INN INC	INACTIVE	TRANSIENT NONCOMM	75
2400336	SUNSET GRILLE	INACTIVE	TRANSIENT NONCOMM	50
2400337	DORRANCE INN	ACTIVE	TRANSIENT NONCOMM	25
2400338	THE RUSTIC TAVERN	INACTIVE	TRANSIENT NONCOMM	25
2400339	ST JAMES EVANGELIST LUTHERAN	INACTIVE	TRANSIENT NONCOMM	25
2400340	SQUIGS PLACE	ACTIVE	TRANSIENT NONCOMM	25
2400341	LILY LAKE HOTEL	ACTIVE	TRANSIENT NONCOMM	25
2400342	SLOCUM RESTAURANT	INACTIVE	TRANSIENT NONCOMM	25
2400343	ALBERDEEN INN	ACTIVE	TRANSIENT NONCOMM	25
2400344	SLOCUM TWP MEM VFW POST 7918	INACTIVE	TRANSIENT NONCOMM	40
2400345	UNITED CHURCH OF CHRIST	INACTIVE	TRANSIENT NONCOMM	25
2400346	ST MARYS CHURCH	INACTIVE	TRANSIENT NONCOMM	25
2400347	ST PETERS EVANGELIST CHURCH	INACTIVE	TRANSIENT NONCOMM	25
2400348	ROSSI BAR AND RESTAURANT	INACTIVE	TRANSIENT NONCOMM	90
2400349	DORRANCE SUNOCO	ACTIVE	TRANSIENT NONCOMM	100
2400350	CHESTER F AND HELEN MICA	INACTIVE	TRANSIENT NONCOMM	50
2400351	AMER LEGION MTN POST 781	ACTIVE	TRANSIENT NONCOMM	25
2400354	JILLY’S	INACTIVE	TRANSIENT NONCOMM	100
2400355	TRAILS END RESTAURANT	ACTIVE	TRANSIENT NONCOMM	50
2400356	SPENCER’S WESTERN CAFE	ACTIVE	TRANSIENT NONCOMM	30
2400357	RICKETTS GLEN HOTEL	ACTIVE	TRANSIENT NONCOMM	100
2400358	RICKETTS GLEN STATE PARK	ACTIVE	TRANSIENT NONCOMM	950

Table 2.4-51 {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}
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PWSID	SYSTEM NAME	STATUS	SYSTEM TYPE	POPULATION SERVED
2400360	DEER OAK LOUNGE	ACTIVE	TRANSIENT NONCOMM	50
2400361	JOSEPH DERVINIS DERVINS REST	INACTIVE	TRANSIENT NONCOMM	35
2400362	ZELL AND ER’S	INACTIVE	TRANSIENT NONCOMM	45
2400363	GOOD’S CAMPGROUND	ACTIVE	TRANSIENT NONCOMM	35
2400364	NEW BACK MOUNTAIN BOWL	ACTIVE	TRANSIENT NONCOMM	150
2400366	HANSON’S LAKESHORE CAMPGROUND	INACTIVE	TRANSIENT NONCOMM	65
2400367	DALLAS SENIOR HIGH SCHOOL	ACTIVE	NONTRANSIENT NONCOMM	637
2400368	DALLAS SCH DIST ADMIN BLDG	ACTIVE	NONTRANSIENT NONCOMM	50
2400369	LAKE LEHMAN HIGH SCHOOL	ACTIVE	NONTRANSIENT NONCOMM	750
2400370	LEHMAN JACKSON ELEMENTARY	ACTIVE	NONTRANSIENT NONCOMM	875
2400371	LAKE LEHMAN JR. HIGH SCHOOL	INACTIVE	NONTRANSIENT NONCOMM	475
2400372	SWEET VALLEY GOLF COURSE	INACTIVE	TRANSIENT NONCOMM	60
2400373	RACE’S PIZZA BARN	INACTIVE	TRANSIENT NONCOMM	50
2400374	ROSS ELEMENTARY SCHOOL	ACTIVE	NONTRANSIENT NONCOMM	130
2400375	LAKE-NOXEN ELEMENTARY SCHOOL	ACTIVE	NONTRANSIENT NONCOMM	450
2400377	HUNLOCK CREEK TAVERN	ACTIVE	TRANSIENT NONCOMM	50
2400378	O’HAWLEY’S BAR & GRILL	INACTIVE	TRANSIENT NONCOMM	80
2400379	JIM MIL	ACTIVE	TRANSIENT NONCOMM	65
2400380	VILLAGE TAVERN	ACTIVE	TRANSIENT NONCOMM	25
2400382	GROFF’S GROVE	INACTIVE	TRANSIENT NONCOMM	25
2400384	COUNTRY GENTLEMAN	ACTIVE	TRANSIENT NONCOMM	200
2400387	HUNLOCK CREEK VOL FIRE DEPT	ACTIVE	TRANSIENT NONCOMM	30
2400388	LAKESIDE PIZZERIA & DELI	ACTIVE	TRANSIENT NONCOMM	60
2400389	DOC’S PIZZA & SUBS	INACTIVE	TRANSIENT NONCOMM	25
2400390	JOHNNY’S	INACTIVE	TRANSIENT NONCOMM	25
2400391	G WHITTAKERS	INACTIVE	TRANSIENT NONCOMM	100
2400392	NINOS PIZZA PAPPYS PLACE	ACTIVE	TRANSIENT NONCOMM	50
2400393	AMERICAN LEGION POST 495	ACTIVE	TRANSIENT NONCOMM	50
2400394	NORTHWEST SENIOR HIGH SCHOOL	ACTIVE	NONTRANSIENT NONCOMM	650
2400395	HUNTINGTON MILLS ELEM. SCHOOL	ACTIVE	NONTRANSIENT NONCOMM	410
2400396	HUNLOCK ELEMENTARY SCHOOL	ACTIVE	NONTRANSIENT NONCOMM	375
2400397	RED BARN CAFE	INACTIVE	TRANSIENT NONCOMM	125
2400399	PRIME TIME RESTAURANT	INACTIVE	TRANSIENT NONCOMM	25
2400401	BIG B DRIVE IN	ACTIVE	TRANSIENT NONCOMM	125
2400402	DANNYS	ACTIVE	TRANSIENT NONCOMM	25
2400403	THE OFFICE OF LEE VALLEY	ACTIVE	TRANSIENT NONCOMM	25
2400404	MORGAN HILLS GOLF COURSE	ACTIVE	TRANSIENT NONCOMM	35
2400406	TC RILEYS	ACTIVE	TRANSIENT NONCOMM	60
2400407	FRANCES SLOCUM STATE PARK	ACTIVE	TRANSIENT NONCOMM	2,000
2400408	IREM COUNTRY CLUB	ACTIVE	NONTRANSIENT NONCOMM	800
2400409	SHADYSIDE TAVERN	ACTIVE	TRANSIENT NONCOMM	30
2400410	BEAUMONT INN	INACTIVE	TRANSIENT NONCOMM	50
2400413	SPORTSMAN’S BAR	ACTIVE	TRANSIENT NONCOMM	30
2400414	SUNFLOWER SPROUTS LEARNING CTR	ACTIVE	TRANSIENT NONCOMM	30

Table 2.4-51 {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}
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PWSID	SYSTEM NAME	STATUS	SYSTEM TYPE	POPULATION SERVED
2400415	MARINA CAFE	INACTIVE	TRANSIENT NONCOMM	50
2400416	SANDY BEACH INN %MR.BEDELACH	INACTIVE	TRANSIENT NONCOMM	25
2400417	JOHN BANIS THE DOG HOUSE	INACTIVE	TRANSIENT NONCOMM	40
2400418	PINE BROOK INN INC	INACTIVE	TRANSIENT NONCOMM	30
2400420	JAMES O MCGAFFREY	INACTIVE	TRANSIENT NONCOMM	25
2400421	RICH & CHARLOTTE’S	ACTIVE	TRANSIENT NONCOMM	30
2400422	MA MA GUILIANI’S PASTA HOUSE	INACTIVE	TRANSIENT NONCOMM	200
2400423	COLLEGE MISERICORDIA	ACTIVE	NONTRANSIENT NONCOMM	1,400
2400424	ROLLAWAY	ACTIVE	TRANSIENT NONCOMM	125
2400426	BILL’S CAFE	INACTIVE	TRANSIENT NONCOMM	40
2400427	NELL RINKEN RINKEN CAFE	INACTIVE	TRANSIENT NONCOMM	40
2400428	CASTLE INN	ACTIVE	TRANSIENT NONCOMM	50
2400429	COSCIA’S HIGHLANDS AT NEWBERRY	ACTIVE	TRANSIENT NONCOMM	100
2400430	NEWBERRY ESTATE HOMEOWNERS	ACTIVE	TRANSIENT NONCOMM	50
2400431	OVERBROOK RESTAURANT	INACTIVE	TRANSIENT NONCOMM	25
2400434	FARMERS INN	ACTIVE	TRANSIENT NONCOMM	35
2400435	HOLIDAY HOUSE-JEWISH COMM.CTR.	ACTIVE	TRANSIENT NONCOMM	50
2400437	LEHMAN GOLF CLUB	ACTIVE	TRANSIENT NONCOMM	25
2400439	SHELDONS LUNCH	ACTIVE	TRANSIENT NONCOMM	50
2400440	OUTPOST INN	ACTIVE	TRANSIENT NONCOMM	50
2400441	ELEANOR JONES--JONES CAFE	INACTIVE	TRANSIENT NONCOMM	40
2400443	WILLIAM H EVANS REFRESH STAND	INACTIVE	TRANSIENT NONCOMM	30
2400445	REDMOND’S TAVERN	INACTIVE	TRANSIENT NONCOMM	25
2400446	SARAH J DYMOND ELEM SCHOOL	ACTIVE	NONTRANSIENT NONCOMM	240
2400447	TWIN OAKS GOLF COURSE	ACTIVE	TRANSIENT NONCOMM	50
2400448	JENNIE F KUDERKA FANTIS PARK	INACTIVE	TRANSIENT NONCOMM	40
2400449	APPLE TREE HOUSE	ACTIVE	TRANSIENT NONCOMM	50
2400451	CARRIAGE STOP INN INC	INACTIVE	TRANSIENT NONCOMM	100
2400452	BEAR CREEK COMM CHARTER SCH	ACTIVE	NONTRANSIENT NONCOMM	300
2400453	PLEASURE DOME	ACTIVE	TRANSIENT NONCOMM	30
2400454	KIRBY EPISCOPAL HOUSE	ACTIVE	TRANSIENT NONCOMM	25
2400455	LAUREL RUN INN	INACTIVE	TRANSIENT NONCOMM	25
2400456	COSENZA PIZZERIA	ACTIVE	TRANSIENT NONCOMM	25
2400457	JOSEPH SPANO SPANOS DRIVE IN	INACTIVE	TRANSIENT NONCOMM	80
2400458	COUNTRY PUB	ACTIVE	TRANSIENT NONCOMM	25
2400459	THE INN AT NUANGOLA	INACTIVE	TRANSIENT NONCOMM	75
2400460	RICE ELEMENTARY SCHOOL	ACTIVE	NONTRANSIENT NONCOMM	838
2400461	UNI MART DRUMS	ACTIVE	TRANSIENT NONCOMM	550
2400462	DRUMS ELEMENTARY SCHOOL	INACTIVE	NONTRANSIENT NONCOMM	390
2400463	ANNE MCLAUGHLIN’S CHILD CARE	ACTIVE	NONTRANSIENT NONCOMM	50
2400464	ROCK GLEN JR.HIGH SCHOOL	INACTIVE	NONTRANSIENT NONCOMM	300
2400465	NUANGOLA BORO FIRE DEPT ASSN	INACTIVE	TRANSIENT NONCOMM	25
2400466	SORRELLS PIZZA %WALTER SORRELL	INACTIVE	TRANSIENT NONCOMM	25
2400467	NATHANS FAMILY RESTAURANT	INACTIVE	TRANSIENT NONCOMM	250

Table 2.4-51 {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

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PWSID	SYSTEM NAME	STATUS	SYSTEM TYPE	POPULATION SERVED
2400470	POCO HAVEN INN	INACTIVE	TRANSIENT NONCOMM	25
2400471	FOUR FELLAS BAR & GRILL	ACTIVE	TRANSIENT NONCOMM	50
2400472	CHARLIE WEAVER’S BAR & REST.	ACTIVE	TRANSIENT NONCOMM	50
2400473	INDEPENDENT EXPLOSIVES CO	INACTIVE	TRANSIENT NONCOMM	76
2400474	AMERICAN ASPHALT	INACTIVE	NONTRANSIENT NONCOMM	50
2400475	PA STATE UNIVERSITY W B CAMPUS	INACTIVE	NONTRANSIENT NONCOMM	700
2400477	KAREN MFG. CO. INC.	INACTIVE	NONTRANSIENT NONCOMM	60
2400479	CLEARBROOK LODGE	ACTIVE	TRANSIENT NONCOMM	65
2400480	L & P BERWICK	ACTIVE	NONTRANSIENT NONCOMM	102
2400481	BARONS SUNOCO GAS STATION	INACTIVE	TRANSIENT NONCOMM	30
2400482	TEXACO FOOD MART	INACTIVE	TRANSIENT NONCOMM	70
2400483	ARONSON MFG CORP	INACTIVE	TRANSIENT NONCOMM	75
2400484	VALLEY WOOD PRODUCTS	INACTIVE	TRANSIENT NONCOMM	30
2400485	ECONO LODGE	ACTIVE	TRANSIENT NONCOMM	35
2400487	BFB AMERICA	INACTIVE	NONTRANSIENT NONCOMM	98
2400491	LIBERTY MART	INACTIVE	TRANSIENT NONCOMM	300
2400492	KELLY SERVICE STATION	INACTIVE	TRANSIENT NONCOMM	50
2400493	GOLDSWORTHY COUNTRY STORE	INACTIVE	TRANSIENT NONCOMM	200
2400494	FIRLEY GARAGE	INACTIVE	TRANSIENT NONCOMM	30
2400495	LURGAN CORP	INACTIVE	TRANSIENT NONCOMM	25
2400496	SHINERS SERVICE STATION	INACTIVE	TRANSIENT NONCOMM	50
2400501	CAMP ORCHARD HILL	ACTIVE	TRANSIENT NONCOMM	100
2400502	BARBACCI GROVE	ACTIVE	TRANSIENT NONCOMM	25
2400504	TRUCKSVILLE FREE METHODIST CH.	INACTIVE	TRANSIENT NONCOMM	50
2400505	FIRST ASSEMBLY OF GOD CHURCH %	INACTIVE	TRANSIENT NONCOMM	90
2400506	EAST DALLAS METHODIST %	INACTIVE	TRANSIENT NONCOMM	70
2400507	WILKES BARRE FREE METHODI CAMP	INACTIVE	TRANSIENT NONCOMM	100
2400509	ALPERSON UNITED METH CHURCH	INACTIVE	TRANSIENT NONCOMM	100
2400511	ST FRANCIS CABRINI CHURCH	INACTIVE	TRANSIENT NONCOMM	100
2400512	CARVERTON UNITED METHODIST	INACTIVE	TRANSIENT NONCOMM	90
2400513	NOON TEXACO GAS STATION %	INACTIVE	TRANSIENT NONCOMM	45
2400516	LEHMAN UNITED METHODIST CHURCH	INACTIVE	TRANSIENT NONCOMM	25
2400517	HUNTSVILLE CHRISTIAN CHURCH	ACTIVE	TRANSIENT NONCOMM	100
2400521	CAMP PATTERSON GROVE	ACTIVE	TRANSIENT NONCOMM	300
2400522	ST.MARTHA’S CHURCH % REV.	INACTIVE	TRANSIENT NONCOMM	500
2400523	NEW HIDDEN LAKE CAMPGROUND	ACTIVE	TRANSIENT NONCOMM	150
2400524	CALVARY BIBLE CHAPEL	ACTIVE	NONTRANSIENT NONCOMM	68
2400525	MOON LAKE PARK	ACTIVE	TRANSIENT NONCOMM	500
2400526	PAPPY’S PONDEROSA	INACTIVE	TRANSIENT NONCOMM	25
2400527	SAINT CHRISTOPHER CHURCH	INACTIVE	TRANSIENT NONCOMM	200
2400528	KRUMSKY SERVICE STATION	INACTIVE	TRANSIENT NONCOMM	200
2400530	BEAR CREEK CAMP	ACTIVE	TRANSIENT NONCOMM	235
2400531	ST ELIZABETH R CATHOLIC CHURCH	INACTIVE	TRANSIENT NONCOMM	500
2400532	WILKES BARRE TWP SETTLEMENT CP	ACTIVE	TRANSIENT NONCOMM	25

Table 2.4-51 {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}
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PWSID	SYSTEM NAME	STATUS	SYSTEM TYPE	POPULATION SERVED
2400533	COBOSCO SERVICE STA J COBOSCO	INACTIVE	TRANSIENT NONCOMM	40
2400534	CHARNEY MARKET GAS STATION	INACTIVE	TRANSIENT NONCOMM	60
2400536	UNITED METHODIST CHURCH %	INACTIVE	TRANSIENT NONCOMM	100
2400537	SANDY VALLEY CAMPGROUND	ACTIVE	TRANSIENT NONCOMM	35
2400538	ST.PAUL'S UNITED METHODIST CH.	ACTIVE	TRANSIENT NONCOMM	60
2400539	PHILHARMONIC WORKSHOP	INACTIVE	TRANSIENT NONCOMM	45
2400540	SEVENTH DAY ADVENTIST CHURCH	INACTIVE	TRANSIENT NONCOMM	25
2400541	HAZLETON WILKES BARRE KOA CAMP	INACTIVE	TRANSIENT NONCOMM	250
2400542	CAMP DAVIDOWITZ JEWISH COM CNT	INACTIVE	TRANSIENT NONCOMM	50
2400543	MOYERS GROVE CAMPGROUND	ACTIVE	TRANSIENT NONCOMM	165
2400544	THE CAMP AT WAPWALLOPEN	INACTIVE	TRANSIENT NONCOMM	25
2400545	SHERWOOD FOREST CAMPGROUND	INACTIVE	TRANSIENT NONCOMM	25
2400546	LOOKOUT HOUSE	ACTIVE	TRANSIENT NONCOMM	25
2400547	SACRED HEART R CATHOLIC CHURCH	INACTIVE	TRANSIENT NONCOMM	100
2400548	PENNDOT DISTRICT OFFICE NO 4	INACTIVE	TRANSIENT NONCOMM	1,000
2400800	NORTH LAKE WATER TRUST	INACTIVE	NONTRANSIENT NONCOMM	42
2400802	LAKEVIEW TERRACE	INACTIVE	NONTRANSIENT NONCOMM	38
2400803	BEAR CREEK HEALTH CARE CTR.	INACTIVE	TRANSIENT NONCOMM	32
2400804	NATIVE TEXTILE	INACTIVE	NONTRANSIENT NONCOMM	160
2400806	HUMBOLDT INDUSTRIAL PARK	ACTIVE	NONTRANSIENT NONCOMM	3,000
2400807	IDETOWN UNITED METHODIST CHURC	INACTIVE	TRANSIENT NONCOMM	65
2400809	MOTOR VU DRIVE IN	INACTIVE	TRANSIENT NONCOMM	300
2400810	HAZLETON DRIVE-IN THEATER	INACTIVE	TRANSIENT NONCOMM	100
2400812	RANCH HOUSE LOUNGE	INACTIVE	TRANSIENT NONCOMM	50
2400813	EDGEWOOD PINES GOLF CLUB	ACTIVE	TRANSIENT NONCOMM	150
2400814	VALLEYBROOK INN	INACTIVE	TRANSIENT NONCOMM	50
2400815	SONNY'S INN	INACTIVE	TRANSIENT NONCOMM	50
2400816	CASCADES % DONALD P MACAR	INACTIVE	TRANSIENT NONCOMM	50
2400817	VILLAGE HOMESTYLE BAKE SHOP	INACTIVE	TRANSIENT NONCOMM	50
2400818	HARVEYS LAKE PUB	INACTIVE	TRANSIENT NONCOMM	50
2400819	T.J.'S LAKESIDE	INACTIVE	TRANSIENT NONCOMM	50
2400822	OUT OF TOWN INN	INACTIVE	TRANSIENT NONCOMM	50
2400823	TOM'S KITCHEN	ACTIVE	TRANSIENT NONCOMM	225
2400824	UNI MART	ACTIVE	TRANSIENT NONCOMM	400
2400825	SHINDIG INN	ACTIVE	TRANSIENT NONCOMM	50
2400826	ST MARYS CHURCH & HALL	INACTIVE	TRANSIENT NONCOMM	50
2400827	HESS'S COUNTRY CONE	INACTIVE	TRANSIENT NONCOMM	25
2400828	SAFETY REST AREA SITE #39	ACTIVE	TRANSIENT NONCOMM	860
2400829	SAFETY REST AREA SITE #53	ACTIVE	TRANSIENT NONCOMM	840
2400830	SAFTEY REST AREA SITE #54	ACTIVE	TRANSIENT NONCOMM	840
2400831	PENN DOT LUZ CO MAINT FAC.	INACTIVE	NONTRANSIENT NONCOMM	30
2400832	PENNDOT-SITE 34 PRIM SAFE REST	INACTIVE	TRANSIENT NONCOMM	100
2400833	NESCOPECK STATE PARK	INACTIVE	TRANSIENT NONCOMM	100
2400835	JCC DAY CAMP RT 415	ACTIVE	TRANSIENT NONCOMM	45

Table 2.4-51 {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

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PWSID	SYSTEM NAME	STATUS	SYSTEM TYPE	POPULATION SERVED
2400836	JOHN HEINZ REHAB	ACTIVE	TRANSIENT NONCOMM	40
2400837	RED ROCK CAMPGROUND	INACTIVE	TRANSIENT NONCOMM	100
2400838	LILY LAKE STORE	INACTIVE	TRANSIENT NONCOMM	100
2400839	CULVER LABOR CAMP	INACTIVE	TRANSIENT NONCOMM	54
2400840	RED ROOSTER	ACTIVE	TRANSIENT NONCOMM	80
2400841	TECH PACKAGING	ACTIVE	NONTRANSIENT NONCOMM	120
2400842	DON’S MARKET 1 PASTIE LADY	INACTIVE	TRANSIENT NONCOMM	125
2400843	PP&L RECREATIONAL AREA	INACTIVE	TRANSIENT NONCOMM	50
2400844	VALLEY HOUSE % RICHARD REES	INACTIVE	TRANSIENT NONCOMM	75
2400845	LI’L SICILY PIZZA	INACTIVE	TRANSIENT NONCOMM	25
2400846	FOOTHILLS	INACTIVE	TRANSIENT NONCOMM	50
2400847	J & R LUNCHEONETTE	INACTIVE	TRANSIENT NONCOMM	40
2400848	GOULDS SUPERMARKET	ACTIVE	TRANSIENT NONCOMM	500
2400849	FRIEDMAN’S EXPRESS INC.	INACTIVE	NONTRANSIENT NONCOMM	130
2400850	THE BRITTANY HOUSE	INACTIVE	TRANSIENT NONCOMM	50
2400851	BURGER KING RESTAURANT	ACTIVE	TRANSIENT NONCOMM	900
2400852	HAZLE TOWNSHIP COMMUNITY PARK	ACTIVE	TRANSIENT NONCOMM	25
2400853	UNIMART 94338	ACTIVE	TRANSIENT NONCOMM	700
2400854	COUNTRY CARRY OUTS	INACTIVE	TRANSIENT NONCOMM	50
2400855	HICKORY CORNERS	INACTIVE	TRANSIENT NONCOMM	100
2400856	TRIPLE B STEAKS & MORE	INACTIVE	TRANSIENT NONCOMM	600
2400857	SUNSET GROCERY	INACTIVE	TRANSIENT NONCOMM	60
2400858	CARMEN’S COUNTRY INN	ACTIVE	TRANSIENT NONCOMM	200
2400859	STEWARTS DRIVE IN	ACTIVE	TRANSIENT NONCOMM	500
2400860	MILLER’S BAR	ACTIVE	TRANSIENT NONCOMM	25
2400861	KG % GEORGE YUHAS	INACTIVE	TRANSIENT NONCOMM	500
2400862	COUNTRYSIDE QUIK MART	ACTIVE	TRANSIENT NONCOMM	50
2400863	NEW EVERGREEN SPEEDWAY	INACTIVE	TRANSIENT NONCOMM	350
2400864	DRUMS FUEL STOP WATER SYS	INACTIVE	TRANSIENT NONCOMM	600
2400865	DALLAS DAIRY % J.YENASON	INACTIVE	TRANSIENT NONCOMM	25
2400866	VERIZON COMMUNICATIONS	ACTIVE	TRANSIENT NONCOMM	41
2400867	FERNBROOK GUEST HOME	INACTIVE	NONTRANSIENT NONCOMM	25
2400868	HARVEYS LAKE PFC ACCESS AREA	ACTIVE	TRANSIENT NONCOMM	200
2400869	TRAILING PINE CAMPGROUND	INACTIVE	TRANSIENT NONCOMM	25
2400870	CLEARBROOK MANOR	ACTIVE	NONTRANSIENT NONCOMM	75
2400871	DALLAS SHOPPING CENTER	ACTIVE	NONTRANSIENT NONCOMM	2,000
2400872	VILLA ROMA	ACTIVE	TRANSIENT NONCOMM	100
2400873	COMMONWEALTH TELEPHONE CO. %	INACTIVE	TRANSIENT NONCOMM	150
2400874	CHILDREN’S LEARNING CENTER %	INACTIVE	TRANSIENT NONCOMM	30
2400875	TOKYO JAPANESE CUISINE	INACTIVE	TRANSIENT NONCOMM	63
2400876	OLD CANNERY MINI MART	INACTIVE	TRANSIENT NONCOMM	20
2400877	RACE’S PIZZA BARN	INACTIVE	TRANSIENT NONCOMM	50
2400878	LENAHANS RESTAURANT	ACTIVE	TRANSIENT NONCOMM	35
2400879	LEAVE IT TO BEAVERS	INACTIVE	TRANSIENT NONCOMM	25

Table 2.4-51 {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

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PWSID	SYSTEM NAME	STATUS	SYSTEM TYPE	POPULATION SERVED
2400880	GOLDY'S MINI MART	INACTIVE	TRANSIENT NONCOMM	250
2400881	BRENNAN'S STEAKS & SAAKE	INACTIVE	TRANSIENT NONCOMM	25
2400882	FAITH UNITED METHODIST CHURCH	INACTIVE	TRANSIENT NONCOMM	25
2400883	HARVEY'S LAKE YACHT CLUB	ACTIVE	TRANSIENT NONCOMM	50
2400884	FARMER'S CO-OP	INACTIVE	TRANSIENT NONCOMM	28
2400885	FORKS CLUB AND BISTRO	ACTIVE	TRANSIENT NONCOMM	50
2400886	ZOLA'S LAMP POST	ACTIVE	TRANSIENT NONCOMM	25
2400887	GUS GENETTI HOTEL & RESTAURANT	ACTIVE	NONTRANSIENT NONCOMM	350
2400888	309 & 415 PLAZA	INACTIVE	TRANSIENT NONCOMM	145
2400890	CHATTERBOX SPORTS BAR	INACTIVE	TRANSIENT NONCOMM	25
2400891	BROTHERS SHIMS	ACTIVE	TRANSIENT NONCOMM	25
2400893	J & J DELI & BAKERY	INACTIVE	TRANSIENT NONCOMM	75
2400894	HILLSIDE FARMS DAIRY	ACTIVE	TRANSIENT NONCOMM	200
2400895	SOUTHDALE CAMP	INACTIVE	TRANSIENT NONCOMM	49
2400896	CONYNGHAM CHILDREN'S ACADEMY	INACTIVE	TRANSIENT NONCOMM	40
2400897	ROCK GLEN PARK & POOL COMPLEX	ACTIVE	TRANSIENT NONCOMM	25
2400898	CAMP KRESGE ON BEAVER LAKE	ACTIVE	TRANSIENT NONCOMM	40
2400899	MEATING HOUSE	ACTIVE	TRANSIENT NONCOMM	35
2400900	THE SURF AND TURF CLUB	INACTIVE	TRANSIENT NONCOMM	100
2400901	UNI MART MOUNTAINTOP	ACTIVE	TRANSIENT NONCOMM	500
2400902	LESANTE'S PLACE	INACTIVE	TRANSIENT NONCOMM	25
2400903	DYMOND'S FARM MARKET	ACTIVE	TRANSIENT NONCOMM	100
2400904	KNOTTY PINE CAFE	INACTIVE	TRANSIENT NONCOMM	25
2400905	LOU'S PIZZA & DELI	INACTIVE	TRANSIENT NONCOMM	25
2400906	VALLEY TENNIS & SWIM CLUB	ACTIVE	TRANSIENT NONCOMM	200
2400907	JEBBON MFG CORP	INACTIVE	NONTRANSIENT NONCOMM	54
2400908	OFFSET PAPER BACK MFGS. INC.	INACTIVE	NONTRANSIENT NONCOMM	560
2400910	TURKEY HILL STORE #180	ACTIVE	TRANSIENT NONCOMM	350
2400911	PENN MART PIKES CREEK	ACTIVE	TRANSIENT NONCOMM	150
2400912	PP & L'S CONSTRUCTION DEPT.	INACTIVE	NONTRANSIENT NONCOMM	40
2400913	ARBY'S	INACTIVE	TRANSIENT NONCOMM	1,600
2400914	SLOCUM DELI	INACTIVE	TRANSIENT NONCOMM	25
2400915	FARMER'S C0-OP DAIRY INC	INACTIVE	NONTRANSIENT NONCOMM	39
2400917	KARCHNER REF. SERVICE INC.	ACTIVE	TRANSIENT NONCOMM	25
2400919	HAZLE PARK PACKING	ACTIVE	NONTRANSIENT NONCOMM	50
2400920	J L MARKET	ACTIVE	TRANSIENT NONCOMM	115
2400921	LOOKOUT MOTOR LODGE	ACTIVE	TRANSIENT NONCOMM	25
2400922	PANTRY QUIK	ACTIVE	TRANSIENT NONCOMM	291
2400923	MOUNTAIN SPEEDWAY	INACTIVE	TRANSIENT NONCOMM	200
2400924	FAHRINGER'S MARKET	INACTIVE	TRANSIENT NONCOMM	440
2400925	RITTENHOUSE PLACE WATER SYS	ACTIVE	NONTRANSIENT NONCOMM	279
2400926	PEN MART SUBWAY	ACTIVE	TRANSIENT NONCOMM	50
2400927	SMALL WONDERS DAY CARE	INACTIVE	NONTRANSIENT NONCOMM	45
2400928	PALUCK'S FOOD CONCESSION'S	INACTIVE	TRANSIENT NONCOMM	25

Table 2.4-51 {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}
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PWSID	SYSTEM NAME	STATUS	SYSTEM TYPE	POPULATION SERVED
2400929	MAPLE KNOLL WATER ASSOCIATION	INACTIVE	NONTRANSIENT NONCOMM	82
2400930	CROSSROADS COUNTRY STORE	INACTIVE	TRANSIENT NONCOMM	50
2400931	93 PLAZA	INACTIVE	TRANSIENT NONCOMM	60
2400932	LAKEVIEW MANOR	INACTIVE	NONTRANSIENT NONCOMM	25
2400933	RED ROCK GENERAL STORE	ACTIVE	TRANSIENT NONCOMM	50
2400934	PETRO QUICK	ACTIVE	TRANSIENT NONCOMM	25
2400935	AMERICAS BEST VALUE INN	ACTIVE	TRANSIENT NONCOMM	35
2400936	PIZZA BOYZ	INACTIVE	TRANSIENT NONCOMM	50
2400937	BACK M MOUNTAIN MEDICAL CENTER	INACTIVE	TRANSIENT NONCOMM	55
2400938	PPL WEST BUILDING	ACTIVE	TRANSIENT NONCOMM	35
2400939	CEASE TERRACE WATER ASSOC	ACTIVE	TRANSIENT NONCOMM	40
2400940	COUNCIL CUP CAMPGROUND	ACTIVE	TRANSIENT NONCOMM	25
2400941	PILOT TRAVEL CENTER #298	ACTIVE	TRANSIENT NONCOMM	400
2400942	JONES PANCAKE HOUSE	INACTIVE	TRANSIENT NONCOMM	150
2400943	CARONE’S SUPERMARKET	INACTIVE	TRANSIENT NONCOMM	100
2400944	MICKEY’S GOLF CENTER	ACTIVE	TRANSIENT NONCOMM	125
2400945	MOTOR AGE	INACTIVE	TRANSIENT NONCOMM	30
2400946	COOKS VARIETY STORE	ACTIVE	TRANSIENT NONCOMM	75
2400947	LAUREL RESTAURANT	INACTIVE	TRANSIENT NONCOMM	30
2400948	ANDY’S MINI MARKET	ACTIVE	TRANSIENT NONCOMM	160
2400949	GEORGE ERNST MEMORIAL POOL	ACTIVE	TRANSIENT NONCOMM	150
2400950	THE HARDING TAVERN	INACTIVE	TRANSIENT NONCOMM	28
2400951	MUHLENBURG GENERAL STORE	INACTIVE	TRANSIENT NONCOMM	26
2400952	VALLEY VIEW HOTEL	INACTIVE	TRANSIENT NONCOMM	45
2400953	COOLBAUGH GULF FOOD MART	ACTIVE	TRANSIENT NONCOMM	40
2400954	MOUNTAIN FRESH SUPERMARKET	ACTIVE	TRANSIENT NONCOMM	100
2400956	SITKO’S BARN	ACTIVE	TRANSIENT NONCOMM	60
2400957	JACKIES RESTAURANT AND DELI	ACTIVE	TRANSIENT NONCOMM	25
2400958	HUNTSVILLE GOLF CLUB	ACTIVE	TRANSIENT NONCOMM	400
2400959	MARYS RESTAURANT	ACTIVE	TRANSIENT NONCOMM	108
2400960	REDS SUBS & PIZZA	ACTIVE	TRANSIENT NONCOMM	100
2400961	LUZERNE COUNTY FAIRGROUNDS	ACTIVE	TRANSIENT NONCOMM	1,000
2400962	ROD’S DELI	ACTIVE	TRANSIENT NONCOMM	45
2400963	GERRIE’S FITNESS CENTER	ACTIVE	TRANSIENT NONCOMM	100
2400964	SUGARLOAF TWP MUNIC BUILDING	ACTIVE	TRANSIENT NONCOMM	25
2400965	THE CHR AC OF GR IND BAP CH SL	INACTIVE	TRANSIENT NONCOMM	60
2400966	BROWNS SNACKS AND MORE	INACTIVE	TRANSIENT NONCOMM	25
2400967	CHECKERBOARD INN	ACTIVE	TRANSIENT NONCOMM	50
2400968	OUR COUNTRY SPOT	INACTIVE	TRANSIENT NONCOMM	10
2400970	SONRAE MARKET	ACTIVE	TRANSIENT NONCOMM	30
2400971	RAINBOW HILL SCHOOL	ACTIVE	NONTRANSIENT NONCOMM	34
2400972	INDIAN LAKE INN	ACTIVE	TRANSIENT NONCOMM	25
2400973	UNIMART DALLAS	ACTIVE	TRANSIENT NONCOMM	150
2400974	TURNPIKE MOBIL	ACTIVE	TRANSIENT NONCOMM	50

Table 2.4-51 {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}
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PWSID	SYSTEM NAME	STATUS	SYSTEM TYPE	POPULATION SERVED
2400975	BLUE RIDGE PLAZA	ACTIVE	TRANSIENT NONCOMM	100
2400976	PAMELAS	ACTIVE	TRANSIENT NONCOMM	60
2400978	SUNRISE RESTAURANT	ACTIVE	TRANSIENT NONCOMM	25
2400979	BALIETS COUNTRY CORNERS STORE	ACTIVE	TRANSIENT NONCOMM	400
2400980	RED ROCK MINI MART	INACTIVE	TRANSIENT NONCOMM	200
2400981	3J'S PIZZA	INACTIVE	TRANSIENT NONCOMM	25
2400982	BEAR CREEK CAFE	ACTIVE	TRANSIENT NONCOMM	25
2400983	SMITHS MKT	ACTIVE	TRANSIENT NONCOMM	30
2400984	GOOD TIME GOLF	INACTIVE	TRANSIENT NONCOMM	25
2400985	PUMP N PANTRY PIKES CREEK	ACTIVE	TRANSIENT NONCOMM	250
2400986	SUN HWA KOREAN BBQ RESTAURANT	ACTIVE	TRANSIENT NONCOMM	100
2400987	COMMUNITY BIBLE CHURCH	INACTIVE	NONTRANSIENT NONCOMM	50
2400988	ROSSICK'S SOUTH MOUNTAIN DELI	INACTIVE	TRANSIENT NONCOMM	100
2400989	GROWING YEARS CHILD CARE CTR	ACTIVE	NONTRANSIENT NONCOMM	83
2400990	COMET FOOD MART	ACTIVE	TRANSIENT NONCOMM	125
2400991	BLUE RIDGE TRAIL GOLF CLUB	ACTIVE	TRANSIENT NONCOMM	100
2400992	SANDY BEACH INN	INACTIVE	TRANSIENT NONCOMM	100
2400993	KUNKLE FIRE CO.SOCIAL HALL	INACTIVE	TRANSIENT NONCOMM	50
2400994	PPL SUSQUEHANNA S&A WELLS	ACTIVE	NONTRANSIENT NONCOMM	2,200
2400995	RIVERLANDS RECREATION CENTER	ACTIVE	TRANSIENT NONCOMM	504
2400996	CREW QUARTERS BEACH HAVEN PP&L	INACTIVE	TRANSIENT NONCOMM	35
2400997	SUSQUEHANNA-SIMULATOR BLD PP&L	INACTIVE	TRANSIENT NONCOMM	50
2400999	PPL ENERGY INFORMATION CENTER	ACTIVE	TRANSIENT NONCOMM	50
2401000	TWIST N' SHAKE	ACTIVE	TRANSIENT NONCOMM	100
2401001	BLUE RIDGE PIZZA AND SUBS	ACTIVE	TRANSIENT NONCOMM	50
2401002	UNI MART BEAR CREEK	ACTIVE	TRANSIENT NONCOMM	400
2401003	J & N MINI MART	ACTIVE	TRANSIENT NONCOMM	500
2401004	POND HILL LILY LAKE FIRE CLUB	INACTIVE	TRANSIENT NONCOMM	25
2401005	SWIRES COUNTRY MARKET & DELI	INACTIVE	TRANSIENT NONCOMM	75
2401006	STREAMSIDE INN	INACTIVE	TRANSIENT NONCOMM	100
2401007	PIKES CREEK BEVERAGE	ACTIVE	TRANSIENT NONCOMM	100
2401008	SCATTONS RESTAURANT	ACTIVE	TRANSIENT NONCOMM	25
2401009	FOUR CORNERS MARKET & DELI	ACTIVE	TRANSIENT NONCOMM	26
2401010	NEW DRUMS ELEMENTARY SCHOOL	ACTIVE	NONTRANSIENT NONCOMM	400
2401011	WENDYS RESTAURANT DRUMS	ACTIVE	TRANSIENT NONCOMM	1,000
2401012	KISHBAUGHS GENERAL STORE	INACTIVE	TRANSIENT NONCOMM	150
2401013	MARIANNE S HANIFY CATERING	INACTIVE	TRANSIENT NONCOMM	25
2401019	SAND SPRINGS GOLF COURSE	INACTIVE	TRANSIENT NONCOMM	75
2401020	VESUVIOS PIZZERIA	ACTIVE	TRANSIENT NONCOMM	100
2401021	CAN DO CORPORATE CENTER	ACTIVE	COMMUNITY	300
2401022	THE ICE HOUSE PUB	ACTIVE	TRANSIENT NONCOMM	25
2401023	STONE MEADOWS GOLF COURSE	INACTIVE	TRANSIENT NONCOMM	200
2401024	THE MORRIS FAMILY MARKET	INACTIVE	TRANSIENT NONCOMM	50
2401025	BIG TEN SUBS AND PIZZA	ACTIVE	TRANSIENT NONCOMM	50

Table 2.4-51 {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

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PWSID	SYSTEM NAME	STATUS	SYSTEM TYPE	POPULATION SERVED
2401026	BERYL ANNS BAKERY	INACTIVE	TRANSIENT NONCOMM	25
2401027	EDIBLE ART	INACTIVE	TRANSIENT NONCOMM	25
2401028	TOBYS CREEK ANTIQUES	INACTIVE	TRANSIENT NONCOMM	50
2401029	VFW 6615	ACTIVE	TRANSIENT NONCOMM	25
2401030	ITS A LIFESAVER	ACTIVE	TRANSIENT NONCOMM	25
2401031	VALLEY BROOK ARCADE	INACTIVE	TRANSIENT NONCOMM	25
2401032	ROCK RECREATION CENTER	ACTIVE	TRANSIENT NONCOMM	71
2401033	C J CITGO & SONS	INACTIVE	TRANSIENT NONCOMM	50
2401034	APPLEWOOD GOLF COURSE	ACTIVE	TRANSIENT NONCOMM	50
2401035	HOT DIGGITTY DOG	ACTIVE	TRANSIENT NONCOMM	25
2401036	FINE EUROPEAN CATERING	INACTIVE	TRANSIENT NONCOMM	25
2401038	ST PAULS LUTHERAN CHURCH	ACTIVE	TRANSIENT NONCOMM	200
2401039	COUNTRY PLACE RETREAT	ACTIVE	TRANSIENT NONCOMM	25
2401040	HARVEYS LAKE COUNTRY STORE	ACTIVE	TRANSIENT NONCOMM	3
2401041	ST JOHNS DELI	INACTIVE	TRANSIENT NONCOMM	25
2401042	DELI CAFE	INACTIVE	TRANSIENT NONCOMM	25
2401047	NESCOPECK STATE PARK	ACTIVE	TRANSIENT NONCOMM	50
2401048	LAKE SILKWORTH SEAFOOD	ACTIVE	TRANSIENT NONCOMM	5
2401050	PROSHOT BASKETBALL CAMP	INACTIVE	TRANSIENT NONCOMM	250
2401051	SORBERS CATERING	ACTIVE	TRANSIENT NONCOMM	2
2401052	KATHYS SUBS	INACTIVE	TRANSIENT NONCOMM	25
2401053	JANETS KRAZY KONE	ACTIVE	TRANSIENT NONCOMM	25
2401054	NOTHING BUT DUMPLINGS	INACTIVE	TRANSIENT NONCOMM	25
2401055	SWEET VALLEY DO IT BEST HOTDOG	INACTIVE	TRANSIENT NONCOMM	25
2401056	SUSIES BAKED GOODIES	INACTIVE	TRANSIENT NONCOMM	25
2401057	PAST PRESENT FUTURE CUISINE	ACTIVE	TRANSIENT NONCOMM	25
2401058	CHILDRENS WONDERLAND	ACTIVE	NONTRANSIENT NONCOMM	60
2401059	ROSIES KITCHEN	ACTIVE	TRANSIENT NONCOMM	25
2401060	1 2 3 SCOOPS	ACTIVE	TRANSIENT NONCOMM	25
2401061	FC HARMONY PCH	ACTIVE	NONTRANSIENT NONCOMM	26
2401062	PARADISE CAMPGROUND	ACTIVE	TRANSIENT NONCOMM	25
2401063	PATIO BAR AND GRILL	INACTIVE	TRANSIENT NONCOMM	25
2401065	SHADY RILL FARM & BAKERY	ACTIVE	TRANSIENT NONCOMM	25
2401066	WHEELS BAR AND GRILL	ACTIVE	TRANSIENT NONCOMM	25
2401067	HOLY PROTECTION MONASTERY	ACTIVE	TRANSIENT NONCOMM	25
2401068	LIBERTY EXXON	ACTIVE	TRANSIENT NONCOMM	25
2401070	COOKIES CAFE	ACTIVE	TRANSIENT NONCOMM	25
2401071	THE BENJAMIN HARVEY INN	INACTIVE	TRANSIENT NONCOMM	1
2406006	GLEN SUMMIT SPRINGS WATER	ACTIVE	BOTTLED WATER	5,500
2406035	THREE SPRINGS BOTTLED WATER	ACTIVE	BOTTLED WATER	3,500
2406233	TAYLOR SPRINGS BOTTLED WATER	INACTIVE	BOTTLED WATER	3,500
2406258	MONROE BOTTLING CO	ACTIVE	BOTTLED WATER	3,500
2406272	SUTTON SPRINGS	ACTIVE	BOTTLED WATER	555
2406424	SAND SPRINGS	INACTIVE	BULK WATER HAULER	25

Table 2.4-51 {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

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PWSID	SYSTEM NAME	STATUS	SYSTEM TYPE	POPULATION SERVED
2406498	TULPEHOCKEN SPRINGS WATER CO	ACTIVE	BULK WATER HAULER	5,000
2406524	HAZLETON AREA WATER CO	ACTIVE	BULK WATER HAULER	25
2406545	WHITE HAVEN MOUNTAIN SPRINGS	ACTIVE	BULK WATER HAULER	25
2408006	HAZLETON CITY AUTH WATER DEPT.	INACTIVE	COMMUNITY	1,975
2408007	HCA DELANO PARK PLACE	ACTIVE	COMMUNITY	1,017
2408009	HAZLETON CITY AUTH WATER DEPT.	INACTIVE	COMMUNITY	1,083
2408010	HAZLETON CITY AUTH WATER DEPT.	INACTIVE	COMMUNITY	642
2408011	HCA TOMHICKEN	ACTIVE	COMMUNITY	123
2408012	HCA DERRINGER FERN GLEN	ACTIVE	COMMUNITY	276
2450920	BLUE RIDGE REAL ESTATE OFFICE	INACTIVE	TRANSIENT NONCOMM	25
Columbia County				
4190002	NUTAITIS MOBILE HOME PARK	INACTIVE	COMMUNITY	19
4190004	BELLWOOD TRAILER COURT	INACTIVE	COMMUNITY	15
4190005	BERLIN'S MOBILE HOME PARK	INACTIVE	COMMUNITY	31
4190006	HIDDEN HEIGHTS MOBILE HOME PK.	INACTIVE	COMMUNITY	84
4190007	J M MOBILE HOME PK %J&M REALTY	INACTIVE	COMMUNITY	42
4190010	BREECHS MOBILE HOME PARK	INACTIVE	COMMUNITY	28
4190011	CATAWISSA MUNICIPAL WATER AUTH	ACTIVE	COMMUNITY	1,580
4190012	ORANGEVILLE MUNICIPAL WATER AU	ACTIVE	COMMUNITY	480
4190013	PA AMERICAN WATER BERWICK	ACTIVE	COMMUNITY	16,000
4190015	WONDERVIEW WATER CO	ACTIVE	COMMUNITY	320
4190016	MIFFLIN TWP MA	ACTIVE	COMMUNITY	900
4190018	SCENIC KNOLLS	INACTIVE	COMMUNITY	140
4190019	BROOKSIDE VILLAGE MHP	ACTIVE	COMMUNITY	475
4190020	STONY BROOK CIRCLE MHP	ACTIVE	COMMUNITY	400
4190021	MOUNTAIN VIEW ESTATES	ACTIVE	COMMUNITY	80
4190024	RIDGECREST HOMES	INACTIVE	COMMUNITY	150
4190025	LEHET TRAILER COURT	INACTIVE	COMMUNITY	25
4190026	BALANCED CARE AT BLOOMSBURG II	ACTIVE	COMMUNITY	60
4190282	NEWHARTS MOBILE HOME PARK	INACTIVE	COMMUNITY	30
4190283	BERLIN'S TRAILER COURT	INACTIVE	COMMUNITY	25
4190284	CREEKSIDE HEALTH CARE CENTER	INACTIVE	COMMUNITY	36
4190285	ORANGEVILLE N & R CENTER	ACTIVE	COMMUNITY	118
4190286	HELLER'S MOBILE HOME PARK	ACTIVE	COMMUNITY	47
4190287	COUNTRY ESTATE COURT	INACTIVE	COMMUNITY	60
4190288	OUTLOOK PT COMM AT EYERS GROVE	INACTIVE	COMMUNITY	60
4190289	HERITAGE HILLSIDE ESTATES	ACTIVE	COMMUNITY	90
4190290	CLOSSEN MOBILE HOME PARK	INACTIVE	COMMUNITY	32
4190291	COUNTRY ACRES MOBILE HOME PARK	INACTIVE	COMMUNITY	42
4190293	KARNES TRAILER COURT	INACTIVE	COMMUNITY	25
4190294	BRIAR CREEK MANOR	INACTIVE	COMMUNITY	75
4190295	MATRIX DEVELOPMENT INC.	INACTIVE	COMMUNITY	59
4190296	PLEASANT VIEW ESTATES	ACTIVE	COMMUNITY	390
4190297	WALTERS MOBILE HOME COURT	INACTIVE	COMMUNITY	23

Table 2.4-51 {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}
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PWSID	SYSTEM NAME	STATUS	SYSTEM TYPE	POPULATION SERVED
4190298	COUNTRY TERRACE ESTATES	ACTIVE	COMMUNITY	61
4190300	CENTRAL PARK HOTEL	ACTIVE	TRANSIENT NONCOMM	25
4190301	JAMISON CITY HOTEL	ACTIVE	TRANSIENT NONCOMM	25
4190302	ELK GROVE INN	ACTIVE	TRANSIENT NONCOMM	25
4190304	WATER WHEEL CAMPGROUND	INACTIVE	TRANSIENT NONCOMM	450
4190305	3 SPRINGS LAKE CAMPGROUND	INACTIVE	TRANSIENT NONCOMM	45
4190306	WHISPERING PINES CAMPING EST	ACTIVE	TRANSIENT NONCOMM	55
4190307	HICKORY JOE’S	INACTIVE	TRANSIENT NONCOMM	25
4190308	NEWHARTS MOBILE HOME PARK	INACTIVE	COMMUNITY	5
4190309	DIGGERS DIVERSION	ACTIVE	TRANSIENT NONCOMM	25
4190311	CREEKSIDE FAMILY RESTAURANT	ACTIVE	TRANSIENT NONCOMM	25
4190313	STREVIGS RESTAURANT	ACTIVE	TRANSIENT NONCOMM	25
4190314	THE INN UNDER	ACTIVE	TRANSIENT NONCOMM	25
4190316	THE STANLEY CENTER	ACTIVE	NONTRANSIENT NONCOMM	70
4190317	DEIHL’S CAMPING RESORT	ACTIVE	TRANSIENT NONCOMM	100
4190318	HERITAGE HOUSE FAMILY REST	ACTIVE	TRANSIENT NONCOMM	25
4190320	BECKY’S PLACE	ACTIVE	TRANSIENT NONCOMM	25
4190321	DENNY’S	INACTIVE	TRANSIENT NONCOMM	25
4190322	THE INN AT BUCKHORN	INACTIVE	TRANSIENT NONCOMM	120
4190323	NUTAITIS INN	INACTIVE	TRANSIENT NONCOMM	25
4190324	OLYMPIC FLAME DINER	INACTIVE	TRANSIENT NONCOMM	75
4190325	SCOREBOARD SPORTS TAVERN	ACTIVE	TRANSIENT NONCOMM	25
4190326	WONDER YEARS PRESCHOOL	ACTIVE	NONTRANSIENT NONCOMM	25
4190327	COBBLESTONE INN	ACTIVE	TRANSIENT NONCOMM	25
4190328	BURGER KING	INACTIVE	TRANSIENT NONCOMM	25
4190329	HUD’S RESTAURANT	INACTIVE	TRANSIENT NONCOMM	25
4190330	ROMEO’S DRIVE IN	INACTIVE	TRANSIENT NONCOMM	25
4190332	COLUMBIA MONTOUR AREA VO TECH	INACTIVE	NONTRANSIENT NONCOMM	741
4190333	TENNY TOWN MOTEL	ACTIVE	TRANSIENT NONCOMM	40
4190334	KEMLER’S RESTAURANT	ACTIVE	TRANSIENT NONCOMM	25
4190335	RED MAPLE MOTEL	INACTIVE	TRANSIENT NONCOMM	30
4190336	TAPS SPORTS BAR & GRILL	ACTIVE	TRANSIENT NONCOMM	25
4190337	ZEPHYR DINER	INACTIVE	TRANSIENT NONCOMM	250
4190340	HASKELL TRAILER COURT	INACTIVE	COMMUNITY	40
4190341	FRAN’S DAIRY BAR	ACTIVE	TRANSIENT NONCOMM	25
4190343	HOTEL IOLA	ACTIVE	TRANSIENT NONCOMM	25
4190345	BASSETT’S	ACTIVE	TRANSIENT NONCOMM	25
4190346	PARADISE ISLE	INACTIVE	TRANSIENT NONCOMM	25
4190349	MAY’S DRIVE IN	ACTIVE	TRANSIENT NONCOMM	25
4190351	STONE CASTLE MOTEL	ACTIVE	TRANSIENT NONCOMM	80
4190352	CATAWISSA AMERICAN LEGION	ACTIVE	TRANSIENT NONCOMM	25
4190353	TOM’S FAMILY RESTAURANT	ACTIVE	TRANSIENT NONCOMM	25
4190355	LAKE GLORY CAMPSITES	ACTIVE	TRANSIENT NONCOMM	80
4190356	BOB’S DAIRY BAR	INACTIVE	TRANSIENT NONCOMM	200

Table 2.4-51 {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

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PWSID	SYSTEM NAME	STATUS	SYSTEM TYPE	POPULATION SERVED
4190357	THE LARIAT	INACTIVE	TRANSIENT NONCOMM	75
4190360	SOUTHERN COLUMBIA AREA SCHOOL	ACTIVE	NONTRANSIENT NONCOMM	1,650
4190361	J & D CREE MEE FREEZE	ACTIVE	TRANSIENT NONCOMM	25
4190363	CATACOVE CAMPGROUND	INACTIVE	TRANSIENT NONCOMM	100
4190364	SCOTCH VALLEY RESTAURANT	ACTIVE	TRANSIENT NONCOMM	25
4190365	KEYSERS CAFE	INACTIVE	TRANSIENT NONCOMM	25
4190368	LIGHTSTREET HOTEL	ACTIVE	TRANSIENT NONCOMM	25
4190369	TRAVEL CENTERS OF AMERICA	INACTIVE	NONTRANSIENT NONCOMM	100
4190370	DEL MONTE CORPORATION	ACTIVE	NONTRANSIENT NONCOMM	600
4190372	ROLLING PINES GOLF COURSE	ACTIVE	TRANSIENT NONCOMM	25
4190377	JERSEYTOWN TAVERN	ACTIVE	TRANSIENT NONCOMM	25
4190378	WALTERS MOBILE HOME COURT	INACTIVE	COMMUNITY	45
4190379	TURNERS HIGH VIEW CAMPING AREA	ACTIVE	TRANSIENT NONCOMM	92
4190381	CAMP LAVIGNE	ACTIVE	TRANSIENT NONCOMM	150
4190383	GRASSMERE PARK CAMPGROUND	ACTIVE	TRANSIENT NONCOMM	70
4190384	IDEAL PARK	ACTIVE	TRANSIENT NONCOMM	100
4190392	THE VILLAGE INN	ACTIVE	TRANSIENT NONCOMM	25
4190398	KNOEBELS GROVE PARK	ACTIVE	NONTRANSIENT NONCOMM	4,000
4190801	BENTON VFW	ACTIVE	TRANSIENT NONCOMM	25
4190802	PONDUCE FARMS	ACTIVE	TRANSIENT NONCOMM	25
4190803	PENNDOT-SITE 37 MODERN REST AR	ACTIVE	TRANSIENT NONCOMM	800
4190804	PENNDOT-SITE 38 MODERN REST AR	ACTIVE	TRANSIENT NONCOMM	800
4190805	INDIAN HEAD CAMPGROUND	ACTIVE	TRANSIENT NONCOMM	25
4190808	SEASONS DADS	ACTIVE	TRANSIENT NONCOMM	25
4190810	VAL'S SCOOP & SERVE	INACTIVE	TRANSIENT NONCOMM	25
4190811	MADISON COMM.CTR. %	INACTIVE	TRANSIENT NONCOMM	25
4190812	GREENWOOD FRIENDS SCHOOL	ACTIVE	NONTRANSIENT NONCOMM	100
4190815	J & D CAMPGROUND	ACTIVE	TRANSIENT NONCOMM	225
4190816	THE SURGERY CENTER	ACTIVE	TRANSIENT NONCOMM	25
4190817	JDS INN	ACTIVE	TRANSIENT NONCOMM	25
4190819	FOUGHT'S LABOR CAMP	INACTIVE	TRANSIENT NONCOMM	25
4190820	CAMP EPACHISECA	ACTIVE	TRANSIENT NONCOMM	50
4190821	CAMP LOUISE	ACTIVE	TRANSIENT NONCOMM	25
4190822	BRIAR CREEK PARK	ACTIVE	TRANSIENT NONCOMM	25
4190823	BERWICK GOLF CLUB	ACTIVE	TRANSIENT NONCOMM	25
4190824	BER-VAUGHN PARK	ACTIVE	TRANSIENT NONCOMM	25
4190825	BEAVER-MAIN ELEM. SCHOOL	ACTIVE	NONTRANSIENT NONCOMM	131
4190826	ROMIG'S FIVE STAR SALOON	INACTIVE	TRANSIENT NONCOMM	25
4190827	CHINA QUEEN	ACTIVE	TRANSIENT NONCOMM	25
4190828	WEST CREEK GAP CAMPSITES	INACTIVE	TRANSIENT NONCOMM	25
4190830	TERRAPIN'S CANTINA	ACTIVE	TRANSIENT NONCOMM	25
4190831	SHADY REST CAMPGROUND	ACTIVE	TRANSIENT NONCOMM	86
4190832	RIDGWAY'S	INACTIVE	TRANSIENT NONCOMM	25
4190833	PINE PRIMARY CENTER	INACTIVE	NONTRANSIENT NONCOMM	140

Table 2.4-51 {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}
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PWSID	SYSTEM NAME	STATUS	SYSTEM TYPE	POPULATION SERVED
4190834	BUSTERS OUTBACK BAR & GRILL	ACTIVE	TRANSIENT NONCOMM	25
4190836	MILL RACE GOLF & CAMP. RESORT	ACTIVE	TRANSIENT NONCOMM	25
4190837	TWIN BRIDGES PARK	ACTIVE	TRANSIENT NONCOMM	25
4190838	TIKI LOUNGE	ACTIVE	TRANSIENT NONCOMM	25
4190839	GARDELLO RESTAURANT	ACTIVE	TRANSIENT NONCOMM	25
4190840	UNITED WATER PA COL CO IND PK	ACTIVE	COMMUNITY	138
4190844	INN AT TURKEY HILL	INACTIVE	TRANSIENT NONCOMM	25
4190845	FORT MCCLURE VFW POST 804	INACTIVE	TRANSIENT NONCOMM	25
4190846	BERWICK AREA POOL	ACTIVE	TRANSIENT NONCOMM	25
4190847	BLOOMSBURG STATE POLICE STAT.	INACTIVE	TRANSIENT NONCOMM	25
4190848	WESTERN SIZZLIN STEAK HOUSE	INACTIVE	TRANSIENT NONCOMM	200
4190849	BONANZA FAMILY RESTAURANT	INACTIVE	TRANSIENT NONCOMM	100
4190850	WOLFEY’S PIZZA DEN	INACTIVE	TRANSIENT NONCOMM	25
4190851	MIKEYS ROADHOUSE	INACTIVE	TRANSIENT NONCOMM	25
4190852	PARR’S PIZZA	INACTIVE	TRANSIENT NONCOMM	25
4190853	SUNOCO 2341	INACTIVE	TRANSIENT NONCOMM	25
4190854	SUNOCO A 2343	INACTIVE	TRANSIENT NONCOMM	25
4190855	ARNOLD’S GOLF COURSE	ACTIVE	TRANSIENT NONCOMM	25
4190856	WENDY’S OLD FASH HAMBURGERS	INACTIVE	TRANSIENT NONCOMM	25
4190857	BIG EARL AUTO-TRUCK STOP	INACTIVE	TRANSIENT NONCOMM	100
4190858	PARAGON LABOR CAMP 2.	INACTIVE	TRANSIENT NONCOMM	45
4190859	PARAGON LABOR CAMP 1	INACTIVE	TRANSIENT NONCOMM	56
4190860	RAINBOW HILL SCHOOL	INACTIVE	TRANSIENT NONCOMM	25
4190861	BRASS PELICAN	ACTIVE	TRANSIENT NONCOMM	25
4190862	ECONO LODGE OF BLOOMSBURG	ACTIVE	TRANSIENT NONCOMM	50
4190863	GUMP’S COUNTRY STORE	INACTIVE	TRANSIENT NONCOMM	25
4190864	MONTESSORI CHILDREN’S HOUSE	INACTIVE	NONTRANSIENT NONCOMM	25
4190865	HESS MARKET	ACTIVE	TRANSIENT NONCOMM	25
4190866	RUTH’S	INACTIVE	TRANSIENT NONCOMM	50
4190867	BLOOMSBURG CLINIC	INACTIVE	TRANSIENT NONCOMM	30
4190868	NUMIDIA RACEWAY	INACTIVE	TRANSIENT NONCOMM	25
4190869	LONG JOHN SILVER’S 3655	INACTIVE	TRANSIENT NONCOMM	25
4190870	QUAKER STEAK AND LUBE	ACTIVE	TRANSIENT NONCOMM	25
4190871	COLUMBIA MALL	ACTIVE	NONTRANSIENT NONCOMM	2,000
4190872	J&B COUNTRY STORE	ACTIVE	TRANSIENT NONCOMM	25
4190873	KENTUCKY FRIED CHICKEN	ACTIVE	TRANSIENT NONCOMM	25
4190874	VITAL LIFE	INACTIVE	TRANSIENT NONCOMM	25
4190875	MILLVILLE AMERICAN LEGION	ACTIVE	TRANSIENT NONCOMM	25
4190876	GEISINGER OFFICE BUILDING 2	ACTIVE	NONTRANSIENT NONCOMM	165
4190877	PORKY’S BAR-B-Q	INACTIVE	TRANSIENT NONCOMM	75
4190878	PATRIOT INN	INACTIVE	TRANSIENT NONCOMM	48
4190879	HAMLET’S FAMILY RESTAURANT	INACTIVE	TRANSIENT NONCOMM	150
4190880	SHORT STOP MART	ACTIVE	TRANSIENT NONCOMM	25
4190881	RISHELS FARM MARKET	INACTIVE	TRANSIENT NONCOMM	25

Table 2.4-51 {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

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PWSID	SYSTEM NAME	STATUS	SYSTEM TYPE	POPULATION SERVED
4190882	MOUNT ZION FAMILY CAMPGROUND	ACTIVE	TRANSIENT NONCOMM	40
4190883	MELONIE'S KOLD KUP	ACTIVE	TRANSIENT NONCOMM	25
4190884	BENTON RIVERSIDE MARKET	ACTIVE	TRANSIENT NONCOMM	25
4190885	THE PAMPERED PALATE	INACTIVE	TRANSIENT NONCOMM	10
4190886	THE CANNERY STORE	INACTIVE	TRANSIENT NONCOMM	28
4190887	YOST FARM MARKET & DELI	INACTIVE	TRANSIENT NONCOMM	50
4190888	SAM'S GRAND	INACTIVE	TRANSIENT NONCOMM	25
4190889	KLEERDEX CO.	ACTIVE	NONTRANSIENT NONCOMM	93
4190890	BLOOMSBURG CARPET IND., INC.	INACTIVE	NONTRANSIENT NONCOMM	190
4190891	DOMINOS PIZZA	INACTIVE	TRANSIENT NONCOMM	25
4190892	WISE FOODS INC.	ACTIVE	NONTRANSIENT NONCOMM	600
4190893	ROHBACH'S FARM MARKET	INACTIVE	TRANSIENT NONCOMM	25
4190895	DAIRY QUEEN	INACTIVE	TRANSIENT NONCOMM	25
4190896	MAUSTELLER'S MARKET	INACTIVE	TRANSIENT NONCOMM	25
4190897	SUBWAY	INACTIVE	TRANSIENT NONCOMM	25
4190898	CAMP VICTORY	ACTIVE	TRANSIENT NONCOMM	150
4190899	BURGER KING 8697	ACTIVE	TRANSIENT NONCOMM	25
4190900	WENDY'S	ACTIVE	TRANSIENT NONCOMM	25
4190901	BENTON FOUNDRY, INC.	ACTIVE	NONTRANSIENT NONCOMM	175
4190902	TRAVEL CENTERS OF AMER SUBWAY	INACTIVE	TRANSIENT NONCOMM	25
4190903	WELLERS	INACTIVE	TRANSIENT NONCOMM	25
4190904	PENNA STATE POLICE BLOOMSBURG	ACTIVE	TRANSIENT NONCOMM	25
4190905	BLOOMSBURG CHRISTIAN SCHOOL	ACTIVE	NONTRANSIENT NONCOMM	80
4190906	SAW MILL ROAD OFFICE BLDG	ACTIVE	NONTRANSIENT NONCOMM	150
4190907	DIEHL'S COUNTRY GIFTS	INACTIVE	TRANSIENT NONCOMM	25
4190908	UNI MART 4340	INACTIVE	TRANSIENT NONCOMM	25
4190909	NEENA PETROLEUM INC	ACTIVE	TRANSIENT NONCOMM	25
4190910	CRACKER BARREL OLD CT STO 435	INACTIVE	NONTRANSIENT NONCOMM	118
4190911	COLUMBIA CO CHRISTIAN SCHOOL	ACTIVE	NONTRANSIENT NONCOMM	214
4190912	CINEMA CENTER	ACTIVE	TRANSIENT NONCOMM	25
4190913	FRESH N QUIK	ACTIVE	TRANSIENT NONCOMM	25
4190914	BLOOMSBURG SHOPPING CENTER	INACTIVE	TRANSIENT NONCOMM	25
4190915	PORTABELLA CATERING	ACTIVE	TRANSIENT NONCOMM	25
4190916	WINDSOR HEIGHTS CLUBHOUSE	ACTIVE	TRANSIENT NONCOMM	40
4190917	ACORN ACRES CAMPGROUND	ACTIVE	TRANSIENT NONCOMM	25
4190918	RITAS ITALIAN ICE	ACTIVE	TRANSIENT NONCOMM	25
4190919	FAIRTYME FOOD AND FUN	INACTIVE	TRANSIENT NONCOMM	25
4190920	MUSTANG SALLYS	ACTIVE	TRANSIENT NONCOMM	25
4190921	THE BARBQ PIT	INACTIVE	TRANSIENT NONCOMM	25
4190999	PPL ELECTRIC UTILITIES CORP	ACTIVE	NONTRANSIENT NONCOMM	50
4410926	SHULTZ COFFEE HOUSE	INACTIVE	TRANSIENT NONCOMM	

Table 2.4-52 {Horizontal Hydraulic Gradients}

Groundwater Flow Pathline	Upgradient Point	Downgradient Point	Pathline Distance (ft)	Head Loss Along Flowline (ft)				Horizontal Gradient (ft/ft)			
				Oct. 2007	Jan. 2008	Mar. 2008	July 2008	Oct. 2007	Jan. 2008	Mar. 2008	July 2008
Glacial Overburden Aquifer											
GO1	MW304A	MW302A1	2,000	10.36	9.48	8.31	10.51	0.0052	0.0047	0.0042	0.00526
GO2	MW302A1	MW301A	1,500	2.67	3.89	4.52	2.77	0.0018	0.0026	0.0030	0.00185
GO3	MW301A	Pond G8	450	1.85	3.64	5.03	2.38	0.0041	0.0081	0.0112	0.00528
Shallow Bedrock Aquifer											
SB1	MW319B	MW310B	900	44.21	54.38	55.47	50.70	0.0491	0.0604	0.0616	0.0563
SB2	MW301B	MW312B	300	7.35	2.38	2.42	2.50	0.0245	0.0079	0.0081	0.0083
SB3	MW315B	MW316B	450	25.43	25.73	24.27	24.70	0.0565	0.0572	0.0539	0.0549
SB4	MW316B	MW317B	490	32.18	32.76	30.87	33.48	0.0657	0.0669	0.0630	0.0683
SB5	MW317B	MW308B	1425	65.20	60.30	74.22	67.04	0.0458	0.0423	0.0521	0.0471
SB6	MW313B	MW308B	600	60.96	57.76	71.28	65.09	0.1016	0.0963	0.1188	0.1085
Deep Bedrock Aquifer											
DB1	MW303C	MW306C	2,700	48.20	47.39	46.88	41.60	0.0179	0.0176	0.0174	0.0154
DB2	MW303C	MW307B	4,050	92.35	77.32	67.18	85.83	0.0228	0.0191	0.0166	0.0212

Table 2.4-53 {Vertical Hydraulic Gradients and Flow Directions}

(Page 1 of 2)

Well Pair	Date	Gradient A to B	Gradient A to C	Gradient B to C	Gradient A1 to A2	Flow Direction
MW301A - MW301B1	11/29/2007	-0.0182	-----	-----	-----	upward
	1/26/2008	-0.0330	-----	-----	-----	upward
	3/24/2008	-0.0111	-----	-----	-----	upward
	7/23/2008	-0.0147	-----	-----	-----	upward
MW302A1 - MW302B(1,2)	11/29/2007	-----	-0.0376	-----	-----	upward
	1/26/2008	-----	-0.0330	-----	-----	upward
	3/24/2008	-----	-0.0201	-----	-----	upward
	7/23/2008	-----	-0.0499	-----	-----	upward
MW303A - MW303B	11/29/2007	-0.0860	-----	-----	-----	upward
	1/26/2008	-0.0514	-----	-----	-----	upward
	3/24/2008	-0.0490	-----	-----	-----	upward
	7/23/2008	-0.0332	-----	-----	-----	upward
MW303A - MW303C	11/29/2007	-----	0.0379	-----	-----	downward
	1/26/2008	-----	0.0465	-----	-----	downward
	3/24/2008	-----	0.0569	-----	-----	downward
	7/23/2008	-----	-0.0709	-----	-----	downward
MW303B - MW303C	11/29/2007	-----	-----	0.0900	-----	downward
	1/26/2008	-----	-----	0.0876	-----	downward
	3/24/2008	-----	-----	0.1013	-----	downward
	7/23/2008	-----	-----	0.1145	-----	downward
MW304A - MW304B	11/29/2007	0.0017	-----	-----	-----	downward
	1/26/2008	0.0031	-----	-----	-----	downward
	3/24/2008	0.0042	-----	-----	-----	downward
	7/23/2008	0.0040	-----	-----	-----	downward
MW304A - MW304C	11/29/2007	-----	0.0095	-----	-----	downward
	1/26/2008	-----	0.0018	-----	-----	downward
	3/24/2008	-----	0.0029	-----	-----	downward
	7/23/2008	-----	0.0012	-----	-----	downward
MW304B - MW304C	11/29/2007	-----	-----	0.0148	-----	downward
	1/26/2008	-----	-----	0.0008	-----	downward
	3/24/2008	-----	-----	0.0020	-----	downward
	7/23/2008	-----	-----	0.0007	-----	downward
MW305A1 - MW305B	11/29/2007	0.0026	-----	-----	-----	downward
	1/26/2008	0.0153	-----	-----	-----	downward
	3/24/2008	0.0094	-----	-----	-----	downward
	7/23/2008	0.0032	-----	-----	-----	downward
MW305A2 - MW305B	11/29/2007	0.0012	-----	-----	-----	downward
	1/26/2008	0.0014	-----	-----	-----	downward
	3/24/2008	0.0022	-----	-----	-----	downward
	7/23/2008	0.0005	-----	-----	-----	downward
MW305A1 - MW305A2	11/29/2007	-----	-----	-----	0.0054	downward
	1/26/2008	-----	-----	-----	0.0126	downward
	3/24/2008	-----	-----	-----	0.0234	downward
	7/23/2008	-----	-----	-----	0.0084	downward

Table 2.4-53 {Vertical Hydraulic Gradients and Flow Directions}

(Page 2 of 2)

Well Pair	Date	Gradient A to B	Gradient A to C	Gradient B to C	Gradient A1 to A2	Flow Direction
MW306A - MW306C	11/29/2007	-----	-0.0023	-----	-----	upward
	1/26/2008	-----	-0.0031	-----	-----	upward
	3/24/2008	-----	-0.0027	-----	-----	upward
	7/23/2008	-----	-0.0075	-----	-----	upward
MW307A - MW307B[1]	11/29/2007	-----	0.2921	-----	-----	downward
	1/26/2008	-----	0.2506	-----	-----	downward
	3/24/2008	-----	0.2094	-----	-----	downward
	7/23/2008	-----	0.3113	-----	-----	downward
MW308A - MW308B	11/29/2007	1.3143	-----	-----	-----	downward
	1/26/2008	1.2232	-----	-----	-----	downward
	3/24/2008	1.4998	-----	-----	-----	downward
	7/23/2008	1.4089	-----	-----	-----	downward
MW309A - MW309B	11/29/2007	0.0176	-----	-----	-----	downward
	1/26/2008	0.0196	-----	-----	-----	downward
	3/24/2008	0.0241	-----	-----	-----	downward
	7/23/2008	0.0029	-----	-----	-----	downward
MW310A - MW310B	11/29/2007	-0.0732	-----	-----	-----	upward
	1/26/2008	-0.0862	-----	-----	-----	upward
	3/24/2008	-0.0799	-----	-----	-----	upward
	7/23/2008	-0.0920	-----	-----	-----	downward
MW310A - MW310C [2]	11/29/2007	-----	-0.1117	-----	-----	upward
	1/26/2008	-----	-0.1132	-----	-----	upward
	3/24/2008	-----	-0.1023	-----	-----	upward
	7/23/2008	-----	-0.1272	-----	-----	downward
MW310B - MW310C [2]	11/29/2007	-----	-----	-0.1355	-----	upward
	1/26/2008	-----	-----	-0.1300	-----	upward
	3/24/2008	-----	-----	-0.1162	-----	upward
	7/23/2008	-----	-----	-0.1491	-----	downward

Notes:

(1) Monitoring wells MW302B and MW307B were drilled deeper than originally planned; as a result, the wells have been reclassified as a Deep Bedrock wells (i.e., "C" wells)

(2) Monitoring wells MW302B and MW307B are artesian with water flowing from the wells. Hydraulic heads for wells MW302B and MW310C were set at the top of riser pipe for purposes of calculating vertical gradients.

Table 2.4-54 {Hydraulic Conductivity Values Based on Slug Tests}

Well ID	Kh (ft/day)	Kh (ft/s)	Kh (cm/s)
Glacial Overburden Wells			
MW301A	3.39E+01	3.92E-04	1.20E-02
MW302A1	7.36E+01	8.52E-04	2.60E-02
MW302A2	5.69E+01	6.59E-04	2.01E-02
MW302A3	7.25E+01	8.39E-04	2.56E-02
MW302A4	7.92E+01	9.17E-04	2.79E-02
MW303A	3.70E-02	4.28E-07	1.31E-05
MW304A	3.07E+01	3.55E-04	1.08E-02
MW305A1	6.04E+00	6.99E-05	2.13E-03
MW305A2	7.18E+00	8.31E-05	2.53E-03
MW306A	9.63E+01	1.11E-03	3.40E-02
MW307A	3.38E-02	3.91E-07	1.19E-05
MW308A	3.43E+00	3.97E-05	1.21E-03
MW309A	1.51E+01	1.75E-04	5.33E-03
MW310A	2.38E+01	2.75E-04	8.40E-03
Geometric Mean	1.03E+01	1.20E-04	3.65E-03
Shallow Bedrock Wells			
MW301B1	1.05E+00	1.22E-05	3.70E-04
MW303B	6.99E+00	8.09E-05	2.47E-03
MW304B	3.85E+01	4.46E-04	1.36E-02
MW305B	2.80E+00	3.24E-05	9.88E-04
MW309B	2.23E+00	2.58E-05	7.87E-04
MW310B	2.36E+00	2.73E-05	8.33E-04
Geometric Mean	4.01E+00	4.64E-05	1.41E-03
Deep Bedrock Wells			
MW302B	3.94E-01	4.56E-06	1.39E-04
MW303C	1.48E+00	1.71E-05	5.22E-04
MW304C	5.19E-02	6.01E-07	1.83E-05
MW306C	3.25E-02	3.76E-07	1.15E-05
MW307B	4.27E+00	4.94E-05	1.51E-03
Geometric Mean	3.35E-01	3.87E-06	1.18E-04

Table 2.4-55 {Hydraulic Properties Based on Pumping Tests}

Observation Well ID	Test Type	Transmissivity		Hydraulic Conductivity		Storage Coefficient, S (unitless)	Specific Yield, Sy (unitless)
		(ft^2/day)	(cm^2/s)	(ft/day)	(cm/s)		
Glacial Overburden Pumping Test (Pumping Well = MW302A1)							
MW302A2	Pumping Test	1.98E+03	2.13E+01	1.10E+02	3.88E-02	NA	5.00E-01
	Recovery Test	3.00E+03	3.23E+01	1.67E+02	5.89E-02	NA	NA
MW302A3	Pumping Test	1.85E+03	1.99E+01	1.03E+02	3.63E-02	NA	2.53E-01
	Recovery Test	6.43E+03	6.91E+01	3.57E+02	1.26E-01	NA	NA
MW302A4	Pumping Test	2.03E+03	2.18E+01	1.13E+02	3.99E-02	NA	3.22E-01
	Recovery Test	5.26E+03	5.66E+01	2.92E+02	1.03E-01	NA	NA
Geometric Mean		3.02E+03	3.24E+01	1.68E+02	5.92E-02	NA	3.44E-01
Median		2.52E+03	2.70E+01	1.40E+02	4.94E-02	NA	3.22E-01
Bedrock Pumping Test (Pumping Well = MW301B1)							
MW301B2	Pumping Test	1.31E+01	1.41E-01	2.38E-01	8.40E-05	8.37E-05	NA
	Recovery Test	1.38E+02	1.48E+00	2.51E+00	8.85E-04	5.50E-04	NA
MW301B3	Pumping Test	1.42E+01	1.53E-01	2.58E-01	9.10E-05	5.37E-05	NA
	Recovery Test	1.13E+02	1.22E+00	2.05E+00	7.23E-04	2.52E-04	NA
MW301B4	Pumping Test	3.01E+00	3.24E-02	5.46E-02	1.93E-05	1.25E-05	NA
	Recovery Test	3.17E+01	3.41E-01	5.77E-01	2.04E-04	7.41E-05	NA
Geometric Mean		2.55E+01	2.74E-01	4.64E-01	1.64E-04	9.12E-05	NA
Median		2.30E+01	2.47E-01	4.18E-01	1.47E-04	7.89E-05	NA

Table 2.4-56 {Hydraulic Conductivity Values of Bedrock (Mahantango Shale) Based on Packer Tests}

(Page 1 of 2)

Test Time Interval	Depth to Top of Test Zone	Depth to Bottom of Test Zone	Length of Test Interval	Constant Rate of Flow	Hydraulic Conductivity	
Δ T (s)	L 2 (ft)	L 1 (ft)	L (cm)	q (cm^3/s)	K K=ft/day	K K=cm/s
Monitoring Well MW301C tested on 11/6/2007						
600	55.7	76.7	640.08	27.1287	5.99E-02	2.11E-05
300	76.7	97.7	640.08	0.0	0.0	0.0
300	97.7	118.7	640.08	0.0	0.0	0.0
300	118.7	139.7	640.08	0.0	0.0	0.0
300	139.7	160.7	640.08	0.0	0.0	0.0
600	160.7	181.7	640.08	1.2618	9.42E-04	3.32E-07
300	181.7	202.7	640.08	0.0	0.0	0.0
300	202.7	223.7	640.08	0.0	0.0	0.0
300	223.7	244.7	640.08	0.0	0.0	0.0
600	244.7	265.7	640.08	10.0944	4.93E-03	1.74E-06
300	265.7	286.7	640.08	0.0	0.0	0.0
600	286.7	307.7	640.08	13.8798	5.78E-03	2.04E-06
600	307.7	328.7	640.08	135.0126	5.23E-02	1.85E-05
600	338.7	349.7	335.28	176.652	1.05E-01	3.71E-05
600	349.7	370.7	640.08	169.7121	5.78E-02	2.04E-05
600	370.7	391.7	640.08	141.3216	4.54E-02	1.60E-05
600	391.7	397.7	182.88	174.1284	1.43E-01	5.04E-05
Monitoring Well MW304C tested on 11/2/2007 and 11/3/2007						
600	117	140	701.04	0.0	0.0	0.0
600	140	163	701.04	0.0	0.0	0.0
600	163	186	701.04	5.0472	2.95E-03	1.04E-06
600	230	253	701.04	5.6781	2.35E-03	8.30E-07
600	253	276	701.04	0.0	0.0	0.0
600	290	313	701.04	3.1545	1.04E-03	3.66E-07
600	347	370	701.04	25.236	6.93E-03	2.45E-06
600	370	393	701.04	47.9484	1.24E-02	4.36E-06
300	471	442	701.04	0.0	0.0	0.0
600	522	545	701.04	17.0343	3.11E-03	1.10E-06
Monitoring Well MW306C tested on 11/5/2007						
600	56.5	76.5	609.6	17.6652	3.24E-02	1.14E-05
600	76.5	96.5	609.6	2.5236	3.44E-03	1.21E-06
600	96.5	116.5	609.6	37.854	4.11E-02	1.45E-05
300	116.5	136.5	609.6	0.0	0.0	0.0
300	136.5	156.5	609.6	0.0	0.0	0.0
600	156.5	176.5	609.6	83.2788	5.60E-02	1.98E-05
300	176.5	196.5	609.6	0.0	0.0	0.0
600	196.5	216.5	609.6	1.2618	6.78E-04	2.39E-07
300	216.5	236.5	609.6	0.0	0.0	0.0
300	236.5	256.5	609.6	0.0	0.0	0.0
600	256.5	276.5	609.6	10.7253	4.42E-03	1.56E-06
600	276.5	296.5	609.6	12.618	4.83E-03	1.70E-06

Table 2.4-56 {Hydraulic Conductivity Values of Bedrock (Mahantango Shale) Based on Packer Tests}

(Page 2 of 2)

Test Time Interval	Depth to Top of Test Zone	Depth to Bottom of Test Zone	Length of Test Interval	Constant Rate of Flow	Hydraulic Conductivity	
∆ T (s)	**L 2 (ft)**	**L 1 (ft)**	**L (cm)**	**q (cm^3/s)**	**K K=ft/day**	**K K=cm/s**
600	296.5	316.5	609.6	12.618	4.50E-03	1.59E-06
300	317.5	327.5	304.8	0.0	0.0	0.0
Monitoring Well MW310C (geotechnical boring B327) tested on 11/4/2007						
600	68.5	88.5	609.6	182.961	3.00E-01	1.06E-04
300	88.5	108.5	609.6	0.0	0.0	0.0
300	108.5	128.5	609.6	0.0	0.0	0.0
600	128.5	148.5	609.6	18.927	1.73E-02	6.09E-06
300	148.5	168.5	609.6	0.0	0.0	0.0
300	168.5	188.5	609.6	442.8918	3.12E-01	1.10E-04
300	178.5	198.5	609.6	502.1964	3.34E-01	1.18E-04
Monitoring Well MW313C (geotechnical boring B322) tested on 11/9/2007						
600	72.5	93.5	640.08	318.6045	4.63E-01	1.63E-04
600	93.5	114.5	640.08	20.8197	2.40E-02	8.47E-06
300	107.5	138.5	640.08	0.0	0.0	0.0
600	114.5	135.5	640.08	83.9097	8.04E-02	2.84E-05
300	128.5	149.5	640.08	0.0	0.0	0.0
300	149.5	170.5	640.08	0.0	0.0	0.0
300	170.5	191.5	640.08	0.0	0.0	0.0
300	178.5	199.5	640.08	0.0	0.0	0.0

Table 2.4-57 {Summary of Hydraulic Property Testing at the SSES}

(Page 1 of 2)

Type of Test	Location of Test(s)	Geologic Material Tested	Hydraulic Conductivity			
			Horizontal		Vertical	
			(ft/day)	(cm/s)	(ft/day)	(cm/s)
Pumping Tests	Wells TW-1, TW2	Kame Terrace Deposits, lower 40 ft	3.3 to 15.0	1.16E-03 to 5.29E-03		
	Well C	Kame Terrace Deposits, lower 43 ft	200 (1)	7.06E-02(1)		
	Well CPW	Kame Terrace Deposits, 37 ft	194 (1)	6.84E-02 (1)		
	Well 1210	Kame Terrace Deposits and upper 2 to 3 ft of bedrock	7.8	2.75E-03		
	Well 1204	Kame Terrace Deposits and upper 2 to 3 ft of bedrock	21.7 to 29.2	7.66E-03 to 1.03E-02		
Slug Tests	Well 1208	Kame Terrace Deposits and upper 2 to 3 ft of bedrock	1.8	6.35E-04		
	Well 1210	Kame Terrace Deposits and upper 2 to 3 ft of bedrock	6.6	2.33E-03		
Packer Tests	Borings 929-935 and 937-940, near railway bridge over Rt. 11	Mahantango siltstone and black shale, upper 50 ft of rock (41 intervals tested)	0.013 to 0.76 (median = 0.22)	4.59E-06 to 2.68E-04 (median = 7.76E-05)		
	Reactor and Retention Pond Areas	Mahantango siltstone, less than 20 ft bgs	0.85	3.00E-04		
		Mahantango siltstone, more than 20 ft bgs	1.00E-06	3.53E-10		
	Boring 305	Mahantango siltstone, 7 to 52 ft bgs	0.0061 to 0.41	2.15E-06 to 1.45E-04		
	Well 1201	Mahantango siltstone, 6.7 to 35.3 ft bgs	0 to 0.063	0 to 2.22E-05		
	Well 1209A	Mahantango siltstone, 5.7 to 34 ft bgs	0 to 0.028	0 to 9.88E-06		
Open-End Tests in Borings	Retention Pond Area	Kame Terrace deposits; tests performed in 29 borings	5.7	0.00201	13 to 63	0.00459 to 2.22E-02
	Spray Pond Area	Kame Terrace deposits; tests performed in 7 borings	0.022 to 11.8+	7.76E-06 to 4.16E-03		
	Spray Pond Area (borings 1113 and 1114)	Kame Terrace Deposits and upper 2 to 3 ft of bedrock	1.0 to 3.8	3.52E-04 to 1.34E-03		
	Spray Pond Area (borings 1117)	Mahantango siltstone, 12 to 20 ft below top of rock	2.5	8.82E-04		

Table 2.4-57 {Summary of Hydraulic Property Testing at the SSES}

(Page 2 of 2)

Type of Test	Location of Test(s)	Geologic Material Tested	Hydraulic Conductivity			
			Horizontal		Vertical	
			(ft/day)	(cm/s)	(ft/day)	(cm/s)
Laboratory Permeability Tests	Approximately 1,500 ft (460 m) northeast of plant center	Upper Silty Soil			0.028	9.88E-06
	Boring 1200A at 27 ft bgs	Kame Terrace Deposits			2.3	8.11E-04

Notes:
(1) Based on specific capacity data, assuming wells were 85% efficient
bgs = below ground surface

Table 2.4-58 Reactor Coolant Storage Tank Radionuclide Inventory

Radioisotope	Half-life $t^{1/2}$ (days)	Concentration (μCi/mL)	Radioisotope	Half-life $t^{1/2}$ (days)	Concentration (μCi/mL)
H-3	4.51E+03	1.0E+00	Te-127m	1.09E+02	4.4E-04
Na-24	6.25E-01	3.7E-02	Te-127*	3.90E-01	0.0E+00
Cr-51	2.77E+01	2.0E-03	I-129	5.73E+09	4.6E-08
Mn-54	3.13E+02	1.0E-03	I-130	5.15E-01	5.0E-02
Fe-55	9.86E+02	7.6E-04	Te-129m	3.36E+01	1.5E-03
Fe-59	4.45E+01	1.9E-04	Te-129*	4.83E-02	2.4E-03
Co-58	7.08E+01	2.9E-03	Te-131m	1.25E+00	3.7E-03
Co-60	1.93E+03	3.4E-04	Te-131*	1.74E-02	2.6E-03
Zn-65	2.44E+02	3.2E-04	I-131*	8.04E+00	7.4E-01
Br-83	9.96E-02	3.2E-02	Te-132	3.26E+00	4.1E-02
Kr-83m*	7.63E-02	0.0E+00	I-132*	9.58E-02	3.7E-01
Br-84	2.21E-02	1.7E-02	I-133	8.67E-01	1.3E+00
Br-85	2.01E-03	2.0E-03	Xe-133m*	2.19E+00	0.0E+00
Kr-85*	1.87E-01	0.0E+00	Xe-133*	5.25E+00	0.0E+00
Rb-88	1.24E-02	1.0E+00	Te-134	2.90E-02	6.7E-03
Rb-89	1.06E-02	4.7E-02	I-134*	3.65E-02	2.4E-01
Sr-89*	5.05E+01	6.3E-04	I-135	2.75E-01	7.9E-01
Sr-90	1.06E+04	3.3E-05	Xe-135m*	1.06E-02	0.0E+00
Y-90*	2.67E+00	7.7E-06	Xe-135*	3.79E-01	0.0E+00
Sr-91	3.96E-01	1.0E-03	Cs-134	7.53E+02	1.7E-01
Y-91m*	3.45E-02	5.2E-04	Cs-136	1.31E+01	5.3E-02
Y-91*	5.85E+01	8.1E-05	Cs-137	1.10E+04	1.1E-01
Sr-92	1.13E-01	1.7E-04	Ba-137m*	1.77E-03	1.0E-01
Y-92*	1.48E-01	1.4E-04	Cs-138	2.24E-02	2.2E-01
Y-93	4.21E-01	6.5E-05	Ba-140	1.27E+01	6.2E-04
Zr-95	6.40E+01	9.3E-05	La-140*	1.68E+00	1.6E-04
Nb-95m*	3.61E+00	0.0E+00	Ce-141	3.25E+01	8.9E-05
Nb-95*	3.52E+01	9.3E-05	Ce-143	1.38E+00	7.6E-05
Mo-99	2.75E+00	1.1E-01	Pr-143*	1.36E+01	8.8E-05
Tc-99m*	2.51E-01	4.6E-02	Ce-144	2.84E+02	6.9E-05
Ru-103	3.93E+01	7.7E-05	Pr-144m*	5.07E-03	0.0E+00
Rh-103m	3.90E-02*	6.8E-05	Pr-144*	1.20E-02	6.9E-05
Ru-106	3.68E+02	2.7E-05	W-187	9.96E-01	1.8E-03
Rh-106*	3.45E-04	2.7E-05	Np-239	2.36E+00	8.7E-04
Ag-110m	2.50E+02	2.0E-07	Pu-239*	8.79E+06	0.0E+00
Ag-110*	2.85E-04	0.0E+00			
Note: * Decay chain progeny					

Source: U.S. EPR Final Safety Analysis Report, Tier 2, Rev.0, Table 2.1-2

Table 2.4-59 {Transport Analysis Considering Advection and Radioactive Decay - Equation Inputs}

(Page 1 of 3)

Parent Radionuclide	Progeny in Chain	Half-life (days)	d_{12}	d_{13}	d_{23}	Decay Rate (days-1)	Reactor Coolant Conc. (µCi/cm^3)	K1	K2	K3
H-3		4.51E+03				1.54E-04	1.00E+00			
Na-24		6.25E-01				1.11E+00	3.70E-02			
Cr-51		2.77E+01				2.50E-02	2.00E-03			
Mn-54		3.13E+02				2.21E-03	1.00E-03			
Fe-55		9.86E+02				7.03E-04	7.60E-04			
Fe-59		4.45E+01				1.56E-02	1.90E-04			
Co-58		7.08E+01				9.79E-03	2.90E-03			
Co-60		1.93E+03				3.59E-04	3.40E-04			
Zn-65		2.44E+02				2.84E-03	3.20E-04			
Br-83		9.96E-02				6.96E+00	3.20E-02			
	Kr-83m	7.63E-02	1			9.08E+00	0.00E+00	1.37E-01	-1.37E-01	
Br-84		2.21E-02				3.14E+01	1.70E-02			
Br-85		2.01E-03				3.44E+02	2.00E-03			
	Kr-85	1.87E-01	1			3.71E+00	0.00E+00	-2.18E-05	2.18E-05	
Rb-88		1.24E-02				5.59E+01	1.00E+00			
Rb-89		1.06E-02				6.54E+01	4.70E-02			
	Sr-89	5.05E+01	1			1.37E-02	6.30E-04	-9.85E-06	6.40E-04	
Sr-90		1.06E+04				6.54E-05	3.30E-05			
	Y-90	2.67E+00	1			2.60E-01	7.70E-06	3.30E-05	-2.53E-05	
Sr-91		3.96E-01				1.75E+00	1.00E-03			
	Y-91m	3.45E-02	0.578			2.01E+01	5.20E-04	6.33E-04	-1.13E-04	
	Y-91	5.85E+01		0.422	1	1.18E-02	8.10E-05	-7.91E-06	9.23E-08	9.38E-05
Sr-92		1.13E-01				6.14E+00	1.70E-04			
	Y-92	1.48E-01	1			4.68E+00	1.40E-04	-5.45E-04	6.85E-04	
Y-93		4.21E-01				1.65E+00	6.50E-05			
Zr-95		6.40E+01				1.08E-02	9.30E-05			
	Nb-95m	3.61E+00	0.007			1.92E-01	0.00E+00	6.90E-07	-6.90E-07	
	Nb-95	3.52E+01		0.993	1	1.97E-02	9.30E-05	2.20E-04	8.39E-08	-1.21E-04
Mo-99		2.75E+00				2.52E-01	1.10E-01			
	Tc-99m	2.51E-01	0.876			2.76E+00	4.60E-02	1.06E-01	-6.00E-02	
Ru-103		3.93E+01				1.76E-02	7.70E-05			

Table 2.4-59 {Transport Analysis Considering Advection and Radioactive Decay - Equation Inputs}
(Page 2 of 3)

Parent Radionuclide	Progeny in Chain	Half-life (days)	d_{12}	d_{13}	d_{23}	Decay Rate (days-1)	Reactor Coolant Conc. (µCi/cm^3)	K1	K2	K3
	Rh-103m	3.90E-02	0.997			1.78E+01	6.80E-05	7.68E-05	-8.84E-06	
Ru-106		3.68E+02				1.88E-03	2.70E-05			
	Rh-106	3.45E-04	1			2.01E+03	2.70E-05	2.70E-05	-2.53E-11	
Ag-110m		2.50E+02				2.77E-03	2.00E-07			
	Ag-110	2.85E-04	0.0133			2.43E+03	0.00E+00	2.66E-09	-2.66E-09	
Te-127m		1.09E+02				6.36E-03	4.40E-04			
	Te-127	3.90E-01	0.976			1.78E+00	0.00E+00	4.31E-04	-4.31E-04	
I-129		5.73E+09				1.21E-10	4.60E-08			
I-130		5.15E-01				1.35E+00	5.00E-02			
Te-129m		3.36E+01				2.06E-02	1.50E-03			
	Te-129	4.83E-02	0.65			1.44E+01	2.40E-03	9.76E-04	1.42E-03	
Te-131m		1.25E+00				5.55E-01	3.70E-03			
	Te-131	1.74E-02	0.222			3.98E+01	2.60E-03	8.33E-04	1.77E-03	
	I-131	8.04E+00		0.778	1	8.62E-02	7.40E-01	-8.49E-04	-4.26E-06	7.41E-01
Te-132		3.26E+00				2.13E-01	4.10E-02			
	I-132	9.58E-02	1			7.24E+00	3.70E-01	4.22E-02	3.28E-01	
I-133		8.67E-01				7.99E-01	1.30E+00			
	Xe-133m	2.19E+00	0.029			3.17E-01	0.00E+00	-2.48E-02	2.48E-02	
	Xe-133	5.25E+00		0.971	1	1.32E-01	0.00E+00	-2.45E-01	-1.77E-02	2.63E-01
Te-134		2.90E-02				2.39E+01	6.70E-03			
	I-134	3.65E-02	1			1.90E+01	2.40E-01	-2.60E-02	2.66E-01	
I-135		2.75E-01				2.52E+00	7.90E-01			
	Xe-135m	1.06E-02	0.154			6.53E+01	0.00E+00	1.27E-01	-1.27E-01	
	Xe-135	3.79E-01		0.846	1	1.83E+00	0.00E+00	-2.10E+00	3.65E-03	2.10E+00
Cs-134		7.53E+02				9.21E-04	1.70E-01			
Cs-136		1.31E+01				5.29E-02	5.30E-02			
Cs-137		1.10E+04				6.30E-05	1.10E-01			
	Ba-137m	1.77E-03	0.946			3.91E+02	1.00E-01	1.61E-01	-6.08E-02	
Cs-138		2.24E-02				3.09E+01	2.20E-01			
Ba-140		1.27E+01				5.46E-02	6.20E-04			
	La-140	1.68E+00	1			4.13E-01	1.60E-04	7.14E-04	-5.54E-04	

Table 2.4-59 {Transport Analysis Considering Advection and Radioactive Decay - Equation Inputs}

(Page 3 of 3)

Parent Radionuclide	Progeny in Chain	Half-life (days)	d_{12}	d_{13}	d_{23}	Decay Rate (days-1)	Reactor Coolant Conc. ($\mu Ci/cm^3$)	K1	K2	K3
Ce-141		3.25E+01				2.13E-02	8.90E-05			
Ce-143		1.38E+00				5.02E-01	7.60E-05			
	Pr-143	1.36E+01	1			5.11E-02	8.80E-05	-8.61E-06	9.66E-05	
Ce-144		2.84E+02				2.44E-03	6.90E-05			
	Pr-144m	5.07E-03	0.0178			1.37E+02	0.00E+00	1.23E-06	-1.23E-06	
	Pr-144	1.20E-02		0.9822	0.999	5.78E+01	6.90E-05	7.30E-05	9.50E-07	-9.51E-07
W-187		9.96E-01				6.96E-01	1.80E-03			
Np-239		2.36E+00				2.94E-01	8.70E-04			
	Pu-239	8.79E+06	1			7.89E-08	0.00E+00	-2.33E-10	2.33E-10	

Table 2.4-60 {Transport Analysis Considering Advection and Radioactive Decay - Results}

(Page 1 of 2)

Parent Radionuclide	Progeny in Chain	Effluent Concentration Limit (μCi/cm^3)	Maximum Predicted Ground-Water Concentration Near Walker Run (μCi/cm^3)	Maximum Predicted Ground-Water Concentration / ECL
H-3		1.00E-03	9.69E-01	**9.69E+02**
Na-24		5.00E-05	5.55E-101	1.11E-96
Cr-51		5.00E-04	1.19E-05	**2.38E-02**
Mn-54		3.00E-05	6.36E-04	**2.12E+01**
Fe-55		1.00E-04	6.58E-04	**6.58E+00**
Fe-59		1.00E-05	7.76E-06	**7.76E-01**
Co-58		2.00E-05	3.90E-04	**1.95E+01**
Co-60		3.00E-06	3.16E-04	**1.05E+02**
Zn-65		5.00E-06	1.79E-04	**3.58E+01**
Br-83		9.00E-04	0.00E+00	0.00E+00
	Kr-83m	NA	0.00E+00	NA
Br-84		4.00E-04	0.00E+00	0.00E+00
Br-85		NA	0.00E+00	NA
	Kr-85	NA	0.00E+00	NA
Rb-88		4.00E-04	0.00E+00	0.00E+00
Rb-89		9.00E-04	0.00E+00	0.00E+00
	Sr-89	8.00E-06	3.86E-05	**4.82E+00**
Sr-90		5.00E-07	3.26E-05	**6.51E+01**
	Y-90	7.00E-06	3.26E-05	**4.65E+00**
Sr-91		2.00E-05	1.57E-159	7.87E-155
	Y-91m	2.00E-03	9.96E-160	4.98E-157
	Y-91	8.00E-06	8.22E-09	1.03E-03
Sr-92		4.00E-05	0.00E+00	0.00E+00
	Y-92	4.00E-05	0.00E+00	0.00E+00
Y-93		2.00E-05	8.18E-152	4.09E-147
Zr-95		2.00E-05	1.02E-05	**5.08E-01**
	Nb-95m	3.00E-05	7.54E-08	2.51E-03
	Nb-95	3.00E-05	1.48E-09	4.93E-05
Mo-99		2.00E-05	4.03E-24	2.02E-19
	Tc-99m	1.00E-03	3.89E-24	3.89E-21
Ru-103		3.00E-05	2.09E-06	**6.96E-02**
	Rh-103m	6.00E-03	2.08E-06	3.47E-04
Ru-106		3.00E-06	1.84E-05	**6.12E+00**
	Rh-106	NA	1.84E-05	NA
Ag-110m		6.00E-06	1.13E-07	**1.89E-02**
	Ag-110	NA	1.51E-09	NA
Te-127m		9.00E-06	1.19E-04	**1.33E+01**
	Te-127	1.00E-04	1.17E-04	**1.17E+00**
I-129		2.00E-07	4.60E-08	**2.30E-01**
I-130		2.00E-05	3.22E-122	1.61E-117
Te-129m		7.00E-06	2.20E-05	**3.14E+00**

Table 2.4-60 {Transport Analysis Considering Advection and Radioactive Decay - Results}

(Page 2 of 2)

Parent Radionuclide	Progeny in Chain	Effluent Concentration Limit (μCi/cm^3)	Maximum Predicted Ground-Water Concentration Near Walker Run (μCi/cm^3)	Maximum Predicted Ground-Water Concentration / ECL
	Te-129	4.00E-04	1.43E-05	**3.58E-02**
Te-131m		8.00E-06	1.43E-52	1.79E-47
	Te-131	8.00E-05	3.23E-53	4.03E-49
	I-131	1.00E-06	1.57E-08	**1.57E-02**
Te-132		9.00E-06	4.46E-21	4.96E-16
	I-132	1.00E-04	4.59E-21	4.59E-17
I-133		7.00E-06	9.52E-72	1.36E-66
	Xe-133m	NA	1.49E-30	NA
	Xe-133	NA	0.00E+00	NA
Te-134		3.00E-04	0.00E+00	0.00E+00
	I-134	4.00E-04	0.00E+00	0.00E+00
I-135		3.00E-05	3.48E-225	1.16E-220
	Xe-135m	NA	5.57E-226	NA
	Xe-135	NA	4.33E-166	NA
Cs-134		9.00E-07	1.41E-01	**1.56E+05**
Cs-136		6.00E-06	1.03E-06	**1.72E-01**
Cs-137		1.00E-06	1.09E-01	**1.09E+05**
	Ba-137m	NA	1.03E-01	NA
Cs-138		4.00E-04	0.00E+00	0.00E+00
Ba-140		8.00E-06	8.54E-09	1.07E-03
	La-140	9.00E-06	9.84E-09	1.09E-03
Ce-141		3.00E-05	1.13E-06	**3.77E-02**
Ce-143		2.00E-05	1.54E-49	7.70E-45
	Pr-143	2.00E-05	2.73E-09	1.36E-04
Ce-144		3.00E-06	4.18E-05	**1.39E+01**
	Pr-144m	NA	7.45E-07	NA
	Pr-144	6.00E-04	0.00E+00	0.00E+00
W-187		3.00E-05	1.95E-65	6.50E-61
Np-239		2.00E-05	5.82E-30	2.91E-25
	Pu-239	2.00E-08	2.33E-10	**1.17E-02**

Notes:
NA = Maximum Effluent Concentration Limit (ECL) is not available.
Bolded cell entry means ratio is greater than 1% of ECL

Table 2.4-61 {BBNPP Site-Specific Radionuclide Adsorption (K_d) Values}

Soil	Sample Depth (ft bgs)	Mn		Co		Zn		Sr		Cs		Ce		Fe		Ru	
		Mean	Std. Dev.	Mean	Std. Dev.	Mean	Std. Dev.	Mean	Std. Dev.	Mean	Std. Dev.	Mean	Std. Dev.	Mean	Std. Dev.	Mean	Std. Dev.
MW301A	7 - 11	59.1	0.7	341	31	745	283	36.5	6.0	15,400	6,800	995	99	375	4	141	85
MW302A1	5 - 9	54.6	9.2	856	274	1,010	840	27.5	1.5	11,500	900	2,260	20	3,860	890	156	117
MW305A1	5 - 9	78.4	12.9	85	5	149	32	72.9	1.2	40,900	6,600	1,460	140	3,910	50	234	188
MW306A	5 - 9	447	42	3,090	1,970	2,980	1,010	75.9	1.4	8,700	50	987	90	3,300	550	820	599
MW308A	5 - 9	71.7	8.7	375	31	1,020	820	29.1	1.1	7,560	1,300	1,810	130	3,000	760	97	61
Minimum Value		54.6		85		149		27.5		7,560		987		375		97	

Note: Units of K_d are L/kg. or ml/cm^3

Table 2.4-62 {Distribution Coefficients and Retardation Factors Used in Advection-Decay-Retardation Analysis}

Parent Radionuclide	Progeny in Chain	Distribution Coefficient (L/kg)	Retardation Factor(1)
H-3		0	1
Cr-51		850	4621
Mn-54		54.6	298
Fe-55		375	2039
Fe-59		375	2039
Co-58		85	463
Co-60		85	463
Zn-65		149	811
Rb-89		0	1
	Sr-89	27.5	150
Sr-90		27.5	150
Sr-91		27.5	150
	Y-91m	15.08	83
	Y-91	15.08	83
Zr-95		3,000	16305
	Nb-95m	380	2066
	Nb-95	380	2066
Ru-103		97	528
Ru-106		97	528
Ag-110m		8.3	46
	Ag-110	8.3	46
Te-127m		38	208
	Te-127	38	208
I-129		0	1
Te-129m		38	208
	Te-129	38	208
Te-131m		38	208
	Te-131	38	208
	I-131	0	1
Cs-134		7,560	41088
Cs-136		7,560	41088
Cs-137		7,560	41088
Ce-141		987	5365
Ce-144		987	5365
Np-239		0.96	6
	Pu-239	84.59	953

Notes:
(1) Retardation Factor calculated using K_d values listed in this table, a dry bulk density (kg/L) of 1.75 (Table 2.4-35), and an effective porosity of 0.322 (Table 2.4-55).

Table 2.4-63 {Transport Analysis Considering Advection, Radioactive Decay, and Retardation}

Parent Radionuclide	Progeny in Chain	ECL ($\mu Ci/cm^3$)	Initial Concentration ($\mu Ci/cm^3$)	Distribution Coefficient (K_d) (L/kg)	Retardation Factor (Rf)	Maximum Predicted Ground Water Concentration Near Walker Run ($\mu Ci/cm^3$)	Maximum Predicted Ground Water Concentration / ECL
H-3		1.00E-03	1.00E+00	0	1	9.69E-01	**9.69E+02**
Cr-51		5.00E-04	2.00E-03	850	4621	0.00E+00	0.00E+00
Mn-54		3.00E-05	1.00E-03	54.6	298	2.62E-62	8.72E-58
Fe-55		1.00E-04	7.60E-04	375	2039	1.82E-131	1.82E-127
Fe-59		1.00E-05	1.90E-04	375	2039	0.00E+00	0.00E+00
Co-58		2.00E-05	2.90E-03	85	463	0.00E+00	0.00E+00
Co-60		3.00E-06	3.40E-04	85	463	5.43E-19	1.81E-13
Zn-65		5.00E-06	3.20E-04	149	811	3.18E-209	6.35E-204
Rb-89		9.00E-04	4.70E-02	0	1	0.00E+00	0.00E+00
	Sr-89	8.00E-06	6.30E-04	27.5	150	0.00E+00	0.00E+00
Sr-90		5.00E-07	3.30E-05	27.5	150	4.39E-06	**8.78E+00**
	Y-90	7.00E-06	7.70E-06	15.08	83	3.22E-05	**4.60E+00**
Zr-95		2.00E-05	9.30E-05	3000	16305	0.00E+00	0.00E+00
Ru-103		3.00E-05	7.70E-05	97	528	0.00E+00	0.00E+00
Ru-106		3.00E-06	2.70E-05	97	528	1.06E-93	3.55E-88
Ag-110m		6.00E-06	2.00E-07	8.3	46	8.51E-19	1.42E-13
Te-127m		9.00E-06	4.40E-04	38	208	1.37E-121	1.53E-116
	Te-127	1.00E-04	0.00E+00	38	208	0.00E+00	0.00E+00
I-129		2.00E-07	4.60E-08	0	1	4.60E-08	**2.30E-01**
Te-129m		7.00E-06	1.50E-03	38	208	0.00E+00	0.00E+00
	Te-129	4.00E-04	2.40E-03	38	208	0.00E+00	0.00E+00
Cs-134		9.00E-07	1.70E-01	7560	41088	0.00E+00	0.00E+00
Cs-136		6.00E-06	5.30E-02	7560	41088	0.00E+00	0.00E+00
Cs-137		1.00E-06	1.10E-01	7560	41088	3.82E-232	3.82E-226
Ce-141		3.00E-05	8.90E-05	987	5365	0.00E+00	0.00E+00
Ce-144		3.00E-06	6.90E-05	987	5365	0.00E+00	0.00E+00
Np-239		2.00E-05	8.70E-04	0.96	6	1.58E-166	7.92E-162
	Pu-239	2.00E-08	0.00E+00	84.59	461	0.00E+00	0.00E+00

Notes:
Bolded cell entry means ratio is greater than 1 percent of ECL

Table 2.4-64 {Transport Analysis Considering Advection, Radioactive Decay, Retardation, and Dilution}

Tank-Plume Characteristics		
Tank volume	4061 ft^3	115 m^3
Spill volume	3249 ft^3	92.0 m^3
Effective porosity	0.322	0.322
Plume volume	10,090 ft^3	286 m^3
Assumed plume thickness	10 ft	3.3 m
Plume plan-view area	1,009 ft^2	93.5 m^2

Table 2.4-64—{Transport Analysis Considering Advection, Radioactive Decay, Retardation, and Dilution - continued}

Dilution Factor - Walker Run		
Plume cross-sectional area	100 ft^2	9.27 m^2
Darcy velocity	5.84 ft/day	1.78 m/day
Ground water discharge rate	6.76E-03 ft^3/s	1.92E-04 m^3/s
Surface water flow rate	3.2 ft^3/s	0.091 m^3/s
Dilution factor	0.0021	0.0021

Table 2.4-64—{Transport Analysis Considering Advection, Radioactive Decay, Retardation, and Dilution - continued}

Radionuclide	ECL[1] (μCi/cm^3)	Predicted Ground Water Concentration near Walker Run [2] (μCi/cm^3)	Predicted Surface Water Concentration in Walker Run [3] (μCi/cm^3)	Predicted Surface Water Concentration, Walker Run / ECL [4]
H-3	1.00E-03	OK	2.3E-03	2.03E+00
Sr-90	5.00E-07	4.39E-06	9.22E-09	1.84E-02
Y-90	7.0E-06	3.22E-05	6.77E-08	9.66E-03
I-129	2.0E-07	4.60E-08	9.66E-11	0.00

Notes:
1 Values from 10 CFR Part 20, Appendix B, Table 2, Column 2
2 Values from Table 2.4-63
3 Surface water concentration = ground water concentration * dilution factor (0.0021).
4 Shaded value means that ratio is greater than 1 percent of the ECL

Table 2.4-65 {Compliance with 10 CFR Part 20, Appendix B, Table 2}

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Parent Radionuclide	Progeny in Chain	Advection + Decay)/ECL	(Advection + Decay + Retardation)/ECL	(Advection + Decay + Retardation + Dilution)/ECL	Minimum Values
H-3		9.69E+02	9.69E+02	2.03E+01	1.45E+01
Na-24		1.14E-96			1.14E-96
Cr-51		2.50E-02	0.00E+00		0.00E+00
Mn-54		2.33E+01	9.59E-58		9.59E-58
Fe-55		7.01E+00	1.94E-127		1.94E-127
Fe-59		8.17E-01	0.00E+00		0.00E+00
Co-58		2.08E+01	0.00E+00		0.00E+00
Co-60		1.11E+02	1.92E-13		1.92E-13
Zn-65		3.80E+01	6.75E-204		6.75E-204
Br-83		0.00E+00			0.00E+00
	Kr-83m	NA			0.00E+00
Br-84		0.00E+00			0.00E+00
Br-85		NA			0.00E+00
	Kr-85	NA			0.00E+00
Rb-88		0.00E+00			0.00E+00
Rb-89		0.00E+00	0.00E+00		0.00E+00
	Sr-89	5.05E+00	2.56E-182		2.56E-182
Sr-90		9.08E+01	1.22E+01	1.84E-02	1.84E-01
	Y-90	1.12E-23		9.66E-03	1.12E-23
Sr-91		8.65E-155	0.00E+00		0.00E+00
	Y-91m	0.00E+00	0.00E+00		0.00E+00
	Y-91	9.57E-01	7.60E-87		7.60E-87
Sr-92		0.00E+00			0.00E+00
	Y-92	0.00E+00			0.00E+00
Y-93		4.22E-147			4.22E-147
Zr-95		5.41E-01	0.00E+00		0.00E+00
	Nb-95m	0.00E+00	0.00E+00		0.00E+00
	Nb-95	5.82E-02	0.00E+00		0.00E+00
Mo-99		2.38E-19			2.38E-19
	Tc-99m	1.08E-244			1.08E-244
Ru-103		9.94E-02	0.00E+00		0.00E+00
	Rh-103m	0.00E+00			0.00E+00
Ru-106		1.41E+01	8.15E-88		8.15E-88
	Rh-106	NA			0.00E+00
Ag-110m		9.45E-02	7.09E-13		7.09E-13
	Ag-110	NA			0.00E+00
Te-127m		1.99E+01	2.29E-116		2.29E-116
	Te-127	0.00E+00			0.00E+00
I-129		2.30E-01	2.30E-01	3.45E-03	3.45E-03
I-130		1.61E-117			1.61E-117
Te-129m		3.98E+00	0.00E+00		0.00E+00
	Te-129	0.00E+00			0.00E+00
Te-131m		2.23E-47	0.00E+00		0.00E+00
	Te-131	0.00E+00	0.00E+00		0.00E+00

Table 2.4-65 {Compliance with 10 CFR Part 20, Appendix B, Table 2}

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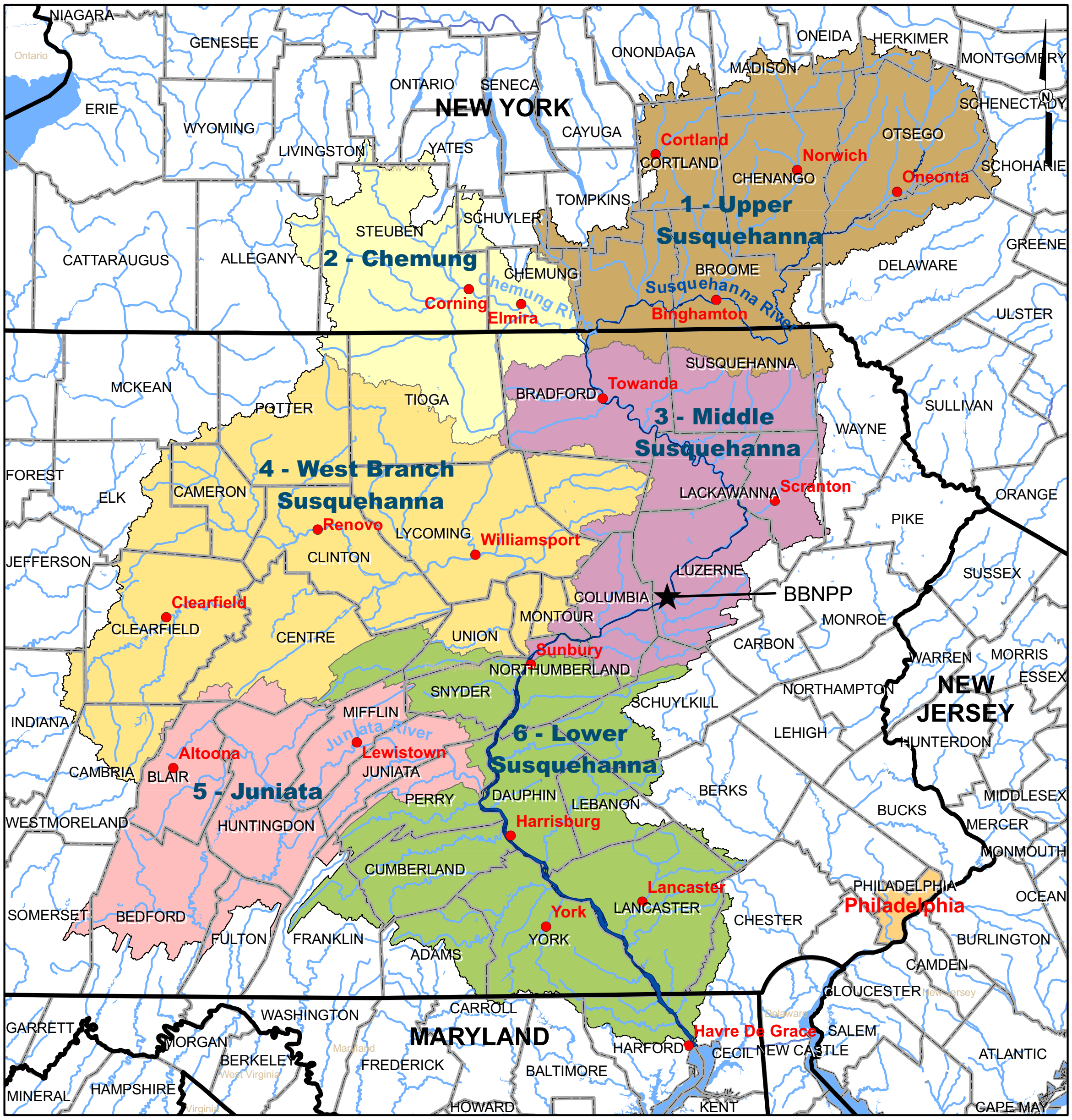
Parent Radionuclide	Progeny in Chain	Advection + Decay)/ECL	(Advection + Decay + Retardation)/ECL	(Advection + Decay + Retardation + Dilution)/ECL	Minimum Values
	I-131	1.57E-02	1.57E-02	2.36E-04	2.36E-04
Te-132		6.04E-16			6.04E-16
	I-132	0.00E+00			0.00E+00
I-133		1.36E-66			1.36E-66
	Xe-133m	NA			0.00E+00
	Xe-133	NA			0.00E+00
Te-134		0.00E+00			0.00E+00
	I-134	0.00E+00			0.00E+00
I-135		1.16E-220			1.16E-220
	Xe-135m	NA			0.00E+00
	Xe-135	NA			0.00E+00
Cs-134		4.05E+05	0.00E+00		0.00E+00
Cs-136		3.58E-01	0.00E+00		0.00E+00
Cs-137		1.68E+05	5.91E-226		5.91E-226
	Ba-137m	NA			0.00E+00
Cs-138		0.00E+00			0.00E+00
Ba-140		1.22E-03			1.22E-03
	La-140	3.59E-36			3.59E-36
Ce-141		4.10E-02	0.00E+00		0.00E+00
Ce-143		8.41E-45			8.41E-45
	Pr-143	1.37E-04			1.37E-04
Ce-144		1.48E+01	0.00E+00		0.00E+00
	Pr-144m	NA			0.00E+00
	Pr-144	0.00E+00			0.00E+00
W-187		6.86E-61			6.86E-61
Np-239		5.01E-25	0.00E+00		0.00E+00
	Pu-239	0.00E+00	0.00E+00		0.00E+00
	Sum =	5.74E+05	9.81E+02	1.47E+01	2.06E+00

Notes:
NA = Maximum Effluent Concentration Limit (ECL) is not available.

Figure 2.4-1 {Susquehanna River Basin and Sub-basins}



LEGEND

★ Center Point of Proposed Bell Bend NPP (BBNPP)

Susquehanna River Subbasins

- Chemung
- Juniata
- Lower Susquehanna
- Middle Susquehanna
- Upper Susquehanna
- West Branch Susquehanna

- Waterbody
- County Boundary
- State Boundary

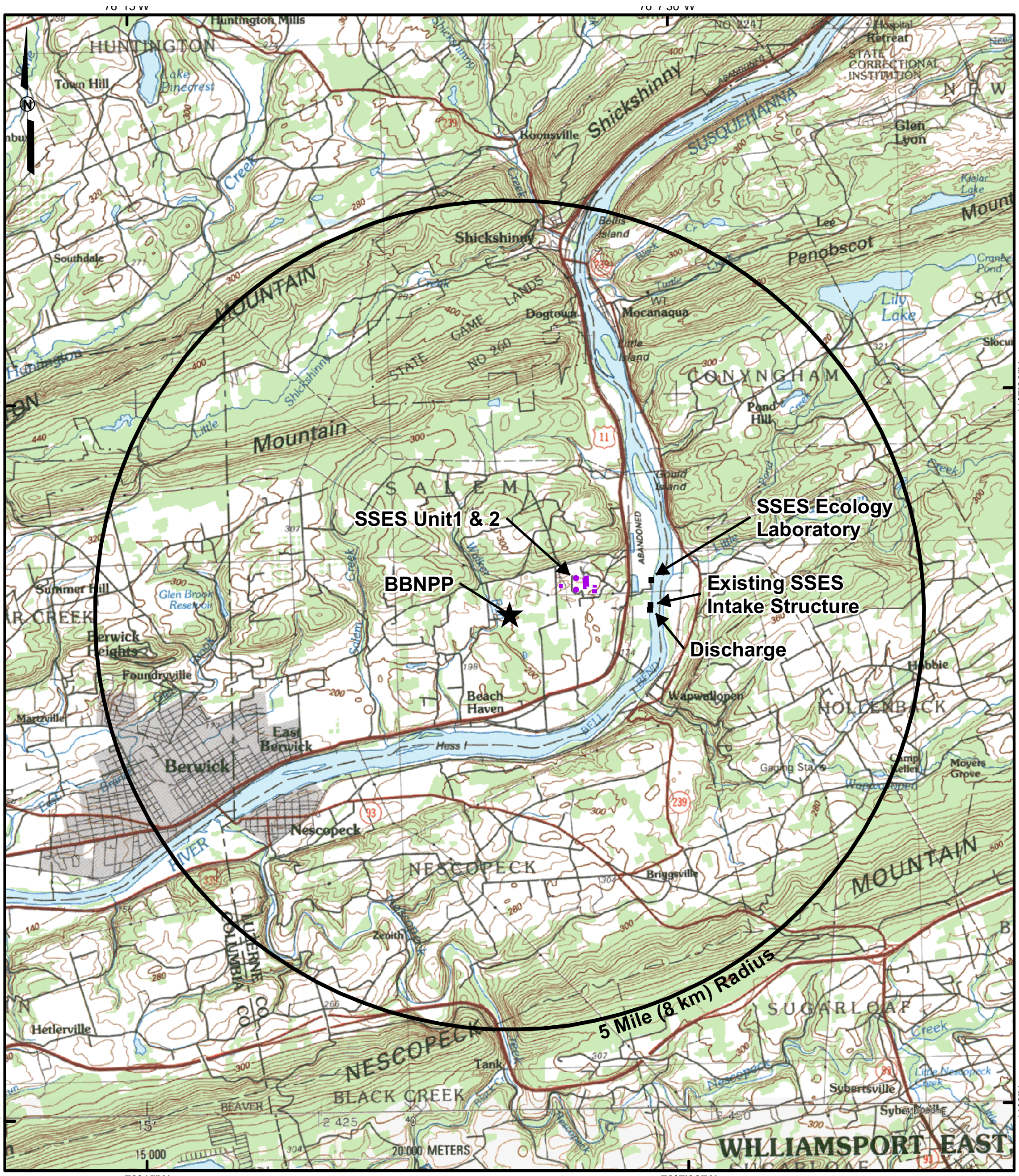
0 17.5 35 70 Miles

0 17.5 35 70 Kilometers

REFERENCES:

ESRI StreetMap Pro [CD-ROM], 2007, Waterbody, Roads, County, Boundary, and City.
Susquehanna River Basin Commission, 2006, Susquehanna River Basin Subbasins

Figure 2.4-2 {Site Area Topographic Map 5 Mile (8 km) Radius}



LEGEND

★ Center Point of Proposed Bell Bend NPP (BBNPP)

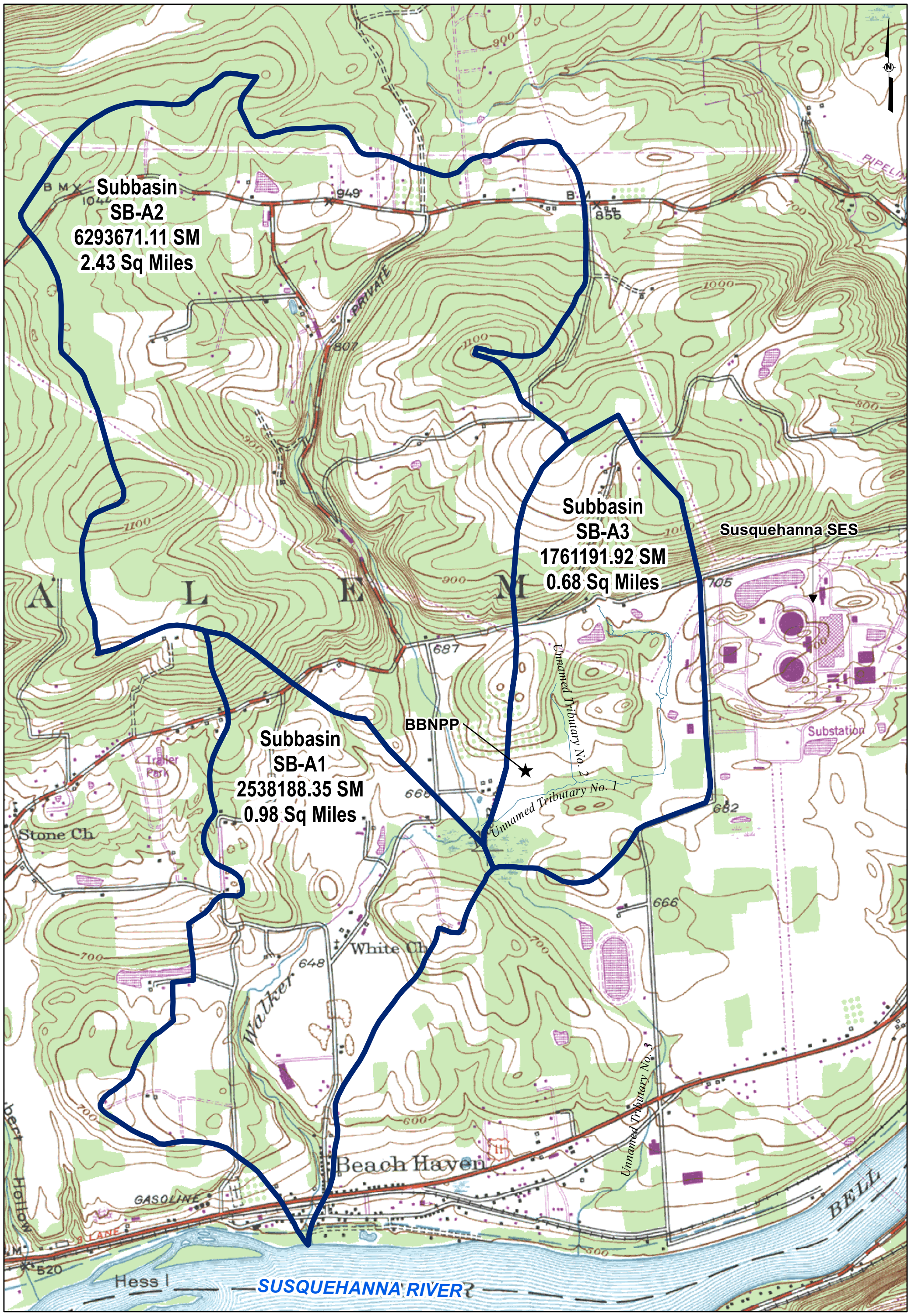
○ NPP Reactor 5 Mile (8 km) Radius

0 0.5 1 2 Miles

0 0.5 1 2 Kilometers

REFERENCE:
USGS 1:100K Topographic Maps:
Williamsport East and Sunbury.Maps edited 1984.

Figure 2.4-3 {Walker Run Watershed}



LEGEND

★ Center Point of Poposed Bell Bend NPP (BBNPP)

Subbasin Boundary

0 750 1,500 3,000 Feet

0 250 500 Meters

Figure 2.4-4 {Site Drainage Flow Pattern}

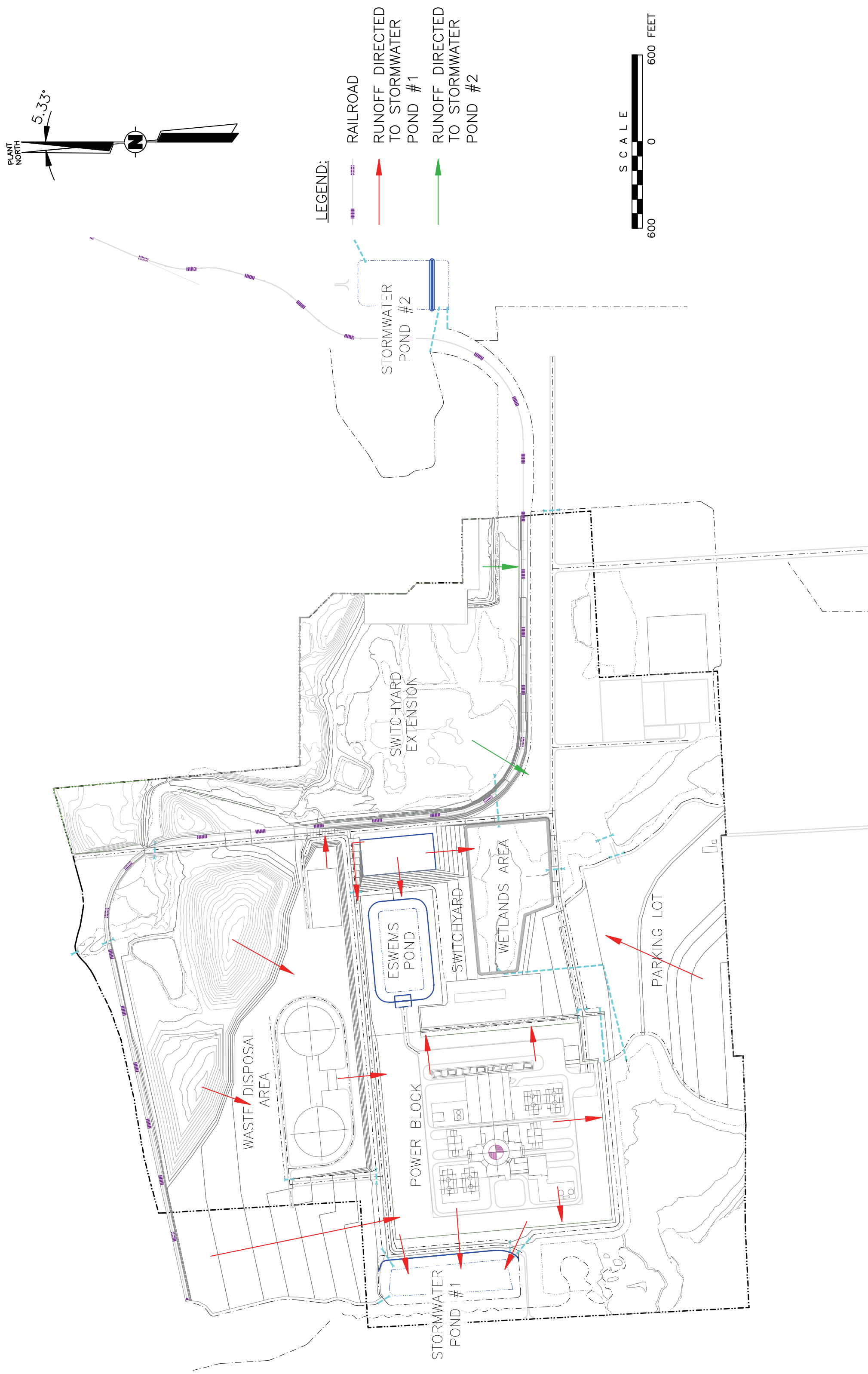


Figure 2.4-5 {Site Utilization Plant Layout}