

ANNUAL RADIOACTIVE EFFLUENT  
RELEASE REPORT

January - December

1992

Public Service Company of Colorado

Fort St. Vrain  
Nuclear Station

March, 1993

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## 1.0 SUMMARY

This report summarizes radiological effluent released from the Fort St. Vrain Nuclear Generating Station for the period of January through December, 1992 consistent with the revision to 10 CFR 50.36a, dated August 19, 1992, published in the Federal Register on August 31, 1992 (57FR 39355). This information is provided pursuant to the requirements of Sections 5.5.2 of the Fort St. Vrain Decommissioning Technical Specifications. Please note that this report contains the information previously provided in the Semi-Annual Radioactive Effluent Release Report for the period from January 1, 1992 through June 30, 1992 (P-92271) dated August 28, 1992. This is done to establish consistency with the Regulation and our reporting system.

This report uses the reporting format recommended by Regulatory Guide 1.21 where appropriate.

The following tables with a supplemental information section are included with this report:

<u>Table</u>	<u>Description</u>
1A	Gaseous Effluents - Summation of All Releases
1C	Gaseous Effluents - Ground-Level Releases
2A	Liquid Effluents - Summation of All Releases
2B	Liquid Effluents - Batch and Continuous
3	Solid Waste and Irradiated Fuel Shipments
4A	Hourly Meteorological Data

Please note that Table 1B (of Regulatory Guide 1.21) has been omitted from this report because all of our gaseous effluents are assumed to be ground-level releases as opposed to being elevated releases.

The Fort St. Vrain Decommissioning Technical Specifications and Offsite Dose Calculation Manual (ODCM) requirements apply exclusively to the following radionuclides: H-3, Mn-54, Co-60, Zn-65, Cs-134, Cs-137, and Ce-144. This list does not mean that only these nuclides are considered. Other gamma emitting nuclides that are identifiable, together with the above nuclides, are analyzed and included in this report.

During the first half of 1992 sample activities that are less than the detection limits are entered in this report using the value resulting from the calculation of the lower limit of detection (LLD) or minimum detectable activity (MDA). This results, for this time period, in reporting upper limit values that are in excess of true activities. Where limit values are a combination of positive and MDA values, the results are footnoted and differentiated from limit values produced from only MDA values.

During the second half of 1992 sample activities that are less than the detection limits are listed as "none detected" and no value is entered into the calculations of the total activities. This results in the reporting of values which are representative of the total curies released.

The lower limit of detection (LLD), for the purposes of this report, is defined as the smallest concentration of radioactive material in a sample that will yield a net count above the system background, that will be detected with a 95% probability of being correct and only a 5% probability of falsely concluding that a blank observation represents a real signal. The LLD values specified in the previous Technical Specifications and included in the ODCM are as follows:

Liquid

Principal Gamma Emitters	5.00E-07 $\mu$ Ci/ml
Tritium	1.00E-05 $\mu$ Ci/ml

Gaseous

Principal Gamma Emitters (Particulate)	1.00E-11 $\mu$ Ci/cc
Tritium (Gas)	1.00E-06 $\mu$ Ci/cc

For values reported for the first half of 1992, we have listed "less than" values for those nuclides listed specifically in our Technical Specifications. These "less than" values were calculated using the observed LLD values and the total volume of the media. For values reported for the second half of 1992, we have listed only positive results. All samples were analyzed to the LLD concentration limits for nuclides specifically listed in our ODCM, however, those which had values of less than LLD were marked as "none detected". The "less than" and "none detected" values were not included in the total values for the pathway.

In values reported for the first half of 1992, the percent of Technical Specification limit on Table 1A is blank in some cases because this value could not be calculated from data which were at or below the minimum detectable activity. On Table 1C, the continuous release mode values are not reported because this release pathway is the same as the batch mode. All other blanks on Tables 1C and 2B occur because no LLD values for these nuclides were required to be calculated per the previous Technical Specifications. No "less than" MDAs are reported during the second half of 1992, all categories which have only less than MDA results are listed as "none detected".

With respect to the total volume of water used for dilution of radioactive liquid effluent, all average diluted concentrations are based on the activity at the unrestricted area. Although this effluent could eventually reach one of two rivers (St. Vrain Creek and South Platte River) which converge approximately one and one-half miles downstream of the plant, no further dilutions were assumed. Additional discussion on river flow is contained in Section 4d of the Supplemental Information Section.

There were no abnormal or unplanned radioactive gaseous or liquid waste releases made during this reporting period.

During the NRC inspection on February 18-21, 1992, (G-92084) it was determined that the PSC reports of tritium released from the Turbine Building Sump (TBS) had possibly been inaccurate. PSC committed to perform additional calculations regarding TBS releases from 1984 through 1991, and report the results in the next Semi-Annual Effluent Report. These results were reported in the August 28, 1992 Semi-Annual Effluent Report, and are reported here for completeness.

The annual amount of tritium released from the TBS from 1985 to 1991 has been calculated and is provided below. Data was not available for 1984. These calculations are based on (1) the average TBS tritium concentration for the year determined through sampling and (2) the volume of liquid effluent discharged from the TBS each year as determined from the TBS sump pump run timers.

TURBINE BUILDING SUMP TRITIUM DISCHARGES

Year	Turbine Bldg Sump Discharge from Pump Timers	Avg Concentration in TBS for Year through Sampling	Total Curies Released from TBS for the Year
1985	16,160,697 (Gal) 61,087,436 (L)	1.11E-9 Ci/L	0.068 Ci
1986	16,905,516 (Gal) 63,902,850 (L)	2.63E-8 Ci/L	1.68 Ci
1987	18,783,579 (Gal) 71,001,928 (L)	1.52E-8 Ci/L	1.08 Ci
1988	22,457,455 (Gal) 84,889,179 (L)	5.50E-8 Ci/L	4.67 Ci
1989	17,142,558 (Gal) 64,798,869 (L)	2.77E-8 Ci/L	1.80 Ci
1990	12,444,342 (Gal) 47,039,612 (L)	1.67E-9 Ci/L	0.079 Ci
1991	5,920,073 (Gal) 22,377,875 (L)	5.21E-10 Ci/L	0.012 Ci

The amount of tritium calculated above is compared below to the amount of tritium reported in Semi-Annual Effluent Reports to the NRC for each year.

Year	Total Curies Reported as Being Released from TBS (Ci)	Total Curies Calculated as Being Released from TBS (Ci)
1985	0.066	0.068
1986	1.30	1.68
1987	1.02	1.08
1988	14.56	4.67
1989	1.37	1.80
1990	0.049	0.079
1991	0.011	0.012

Table 3 summarizes the seventy (70) radioactive solid waste shipments made during 1992. Since the table states "...for burial or disposal" we have identified only those shipments made to a burial site. The summary includes shipments performed by processors and agents in addition to those made directly by the station during 1992. Materials which were shipped to a processor for volume reduction in 1992 are not included in this report.

The two (2) previous reports for 1991 did not include all information as required by FSV Technical Specifications. Accordingly, the below corrections are made.

The previous Technical Specifications required that this report "...shall include the following information for each class of solid waste (as defined by 10CFR Part 61) shipped off site..." The information below satisfies this requirement for wastes for which waste classification is performed (i.e., wastes sent directly for disposal and not those sent to an offsite vendor for processing). Accordingly, the activity, volume, and number of shipments will not agree with information supplied in Table 3 which is prepared in accordance with Regulatory Guide 1.21. Please note that the information in Table 3 include all shipments made from FSV which includes shipments to off site radioactive waste processors and the below information is for only those shipments made directly from FSV to a disposal site (i.e., no report is made of shipments by offsite vendors to disposal site after waste processing).

For the period of January 1 through June 30, 1991:

CLASS A:

None

CLASS B:

1. Container Volume: 125.2 ft<sup>3</sup>.
2. Total Curie Quantity: 4750.837 Ci (estimated).
3. Principal Radionuclides (estimated): H-3, C-14, Mn-54, Fe-55, Co-60, Ni-59, Ni-63, Sr-90, I-129, Cs-134, Cs-137, S-35, Sr-89, and Co-58.
4. Source of Waste and Processing Employed: Irradiated reactor hardware, no processing.
5. Type of Container: Type B.
6. Solidification Agent or Absorbent: None.

CLASS C:

1. Container Volume: 26.2 ft<sup>3</sup>.
2. Total Curie Quantity: 360.19 Ci (estimated).
3. Principal Radionuclides (estimated): H-3, C-14, Mn-54, Fe-55, Co-60, Ni-59, Ni-63, Sr-90, I-129, Cs-134, Cs-137, S-35, Sr-89, and Co-58.
4. Source of Waste and Processing Employed: Irradiated reactor hardware, no processing.
5. Type of Container: Type B.
6. Solidification Agent or Absorbent: None.

For the period of July 1 through December 31, 1991:

CLASS A:

None

CLASS B:

1. Container Volume: 125.2 ft<sup>3</sup>.
2. Total Curie Quantity: 2719.872 Ci (estimated).
3. Principal Radionuclides (estimated): H-3, C-14, Mn-54, Fe-55, Co-60, Ni-59, Ni-63, Sr-90, I-129, Cs-134, Cs-137, S-35, Sr-89, and Co-58.
4. Source of Waste and Processing Employed: Irradiated reactor hardware, no processing.
5. Type of Container: Type B.
6. Solidification Agent or Absorbent: None.

CLASS C:

None.

Table 3

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1991)

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

FIRST QUARTER, 1991

A. SOLID WASTE SHIPPED OFF-SITE FOR BURIAL OR DISPOSAL

1. Type of Waste	Unit	6-Month Period	Est. Total Error, %
a. Spent resins, filter sludges, evaporator bottoms, etc.	m <sup>3</sup> Ci	0.00 E+00 0.00 E+00	0.00 E+00
b. Dry compressible waste, contaminated equip, etc.	m <sup>3</sup> Ci	2.77 E+00 5.63 E-02	2.00 E+01
c. Irradiated components, control rods, etc.	m <sup>3</sup> Ci	7.42 E-01 3.60 E+02	2.00 E+01
d. Other (describe)	m <sup>3</sup> Ci	0.00 E+00 0.00 E-00	0.00 E+00

2. Estimate of major nuclide composition (by type of waste)

a. N/A	0.0 %	0.00 E+00
b. Fe-55	89.1 %	2.00 E+01
Co-60	5.8 %	2.00 E+01
H-3	3.4 %	2.00 E+01
All others	1.7 %	2.00 E+01
c. Fe-55	73.3 %	2.00 E+01
Ni-63	10.5 %	2.00 E+01
Co-60	7.5 %	2.00 E+01
H-3	5.4 %	2.00 E+01
Mn-54	3.3 %	2.00 E+01
All Others	<0.1%	2.00 E+01
d. N/A	0.0 %	0.00 E+00



3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
1	Public Highway	RAMP Industries Denver, CO
1	Public Highway	Barnwell Waste Management Barnwell, SC

B. IRRADIATED FUEL SHIPMENTS (Disposition)

Number of Shipments	Mode of Transportation	Destination
-0-		

Table 3

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1991)

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

SECOND QUARTER, 1991

A. SOLID WASTE SHIPPED OFF-SITE FOR BURIAL OR DISPOSAL

1. Type of Waste	Unit	6-Month Period	Est. Total Error, %
a. Spent resins, filter sludges, evaporator bottoms, etc.	m <sup>3</sup> Ci	0.00 E+00 0.00 E+00	0.00 E+00
b. Dry compressible waste, contaminated equip, etc.	m <sup>3</sup> Ci	5.32 E+00 1.68 E-01	2.00 E+01
c. Irradiated components, control rods, etc.	m <sup>3</sup> Ci	1.54 E+01 4.78 E+03	2.00 E+01
d. Other (describe)	m <sup>3</sup> Ci	0.00 E+00 0.00 E-00	0.00 E+00

2. Estimate of major nuclide composition (by type of waste)

a. N/A	0.0 %	0.00 E+00
b. Fe-55	89.1 %	2.00 E+01
Co-60	5.8 %	2.00 E+01
H-3	3.4 %	2.00 E+01
All others	1.7 %	2.00 E+01
c. Fe-55	73.3 %	2.00 E+01
Ni-63	10.5 %	2.00 E+01
Co-60	7.5 %	2.00 E+01
H-3	5.4 %	2.00 E+01
Mn-54	3.3 %	2.00 E+01
All Others	<0.1%	2.00 E+01
d. N/A	0.0 %	0.00 E+00

3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
1	Public Highway	U.S. Ecology Beatty, NV
2	Public Highway	Quadrex Recycle Center Oak Ridge, TN
2	Public Highway	RAMP Industries, Inc. Denver, CO

B. IRRADIATED FUEL SHIPMENTS (Disposition)

Number of Shipments	Mode of Transportation	Destination
-0-		

Table 3

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1991)

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

THIRD QUARTER, 1991

A. SOLID WASTE SHIPPED OFF-SITE FOR BURIAL OR DISPOSAL

1. Type of Waste	Unit	6-Month Period	Est. Total Error, %
a. Spent resins, filter sludges, evaporator bottoms, etc.	m <sup>3</sup> Ci	0.00 E+00 0.00 E+00	0.00 E+00
b. Dry compressible waste, contaminated equip, etc.	m <sup>3</sup> Ci	2.55 E+00 1.11 E-02	2.00 E+01
c. Irradiated components, control rods, etc.	m <sup>3</sup> Ci	1.77 E+01 3.59 E+01	2.00 E+01
d. Other (describe)	m <sup>3</sup> Ci	0.00 E+00 0.00 E-00	0.00 E+00

2. Estimate of major nuclide composition (by type of waste)

a. N/A	0.0 %	0.00 E+00
b. Fe-55	89.1 %	2.00 E+01
Co-60	5.8 %	2.00 E+01
H-3	3.4 %	2.00 E+01
All others	1.7 %	2.00 E+01
c. Fe-55	73.3 %	2.00 E+01
Ni-63	10.5 %	2.00 E+01
Co-60	7.5 %	2.00 E+01
H-3	5.4 %	2.00 E+01
Mn-54	3.3 %	2.00 E+01
All Others	<0.1%	2.00 E+01
d. N/A	0.0 %	0.00 E+00

3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
1	Public Highway	RAMP Industries Denver, CO
1	Public Highway	Quadrex Recycle Center Oak Ridge, TN

B. IRRADIATED FUEL SHIPMENTS (Disposition)

Number of Shipments	Mode of Transportation	Destination
-0-		

Table 3

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1991)

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

FOURTH QUARTER, 1991

A. SOLID WASTE SHIPPED OFF-SITE FOR BURIAL OR DISPOSAL

1. Type of Waste	Unit	6-Month Period	Est. Total Error, %
a. Spent resins, filter sludges, evaporator bottoms, etc.	m <sup>3</sup> Ci	0.00 E+00 0.00 E+00	0.00 E+00
b. Dry compressible waste, contaminated equip, etc.	m <sup>3</sup> Ci	1.94 E+01 1.48 E-01	2.00 E+01
c. Irradiated components, control rods, etc.	m <sup>3</sup> Ci	3.55 E+00 2.92 E+03	2.00 E+01
d. Other (describe)	m <sup>3</sup> Ci	0.00 E+00 0.00 E-00	0.00 E+00

2. Estimate of major nuclide composition (by type of waste)

a. N/A	0.0 %	0.00 E+00
b. Fe-55	89.1 %	2.00 E+01
Co-60	5.8 %	2.00 E+01
H-3	3.4 %	2.00 E+01
All others	1.7 %	2.00 E+01
c. Fe-55	73.3 %	2.00 E+01
Ni-63	10.5 %	2.00 E+01
Co-60	7.5 %	2.00 E+01
H-3	5.4 %	2.00 E+01
Mn-54	3.3 %	2.00 E+01
All Others	<0.1%	2.00 E+01
d. N/A	0.0 %	0.00 E+00

### 3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
1	Public Highway	U.S. Ecology Beatty, NV
7	Public Highway	RAMP Industries, Inc. Denver, CO

### B. IRRADIATED FUEL SHIPMENTS (Disposition)

Number of Shipments	Mode of Transportation	Destination
3	Public Highway	INEL Scoville, ID

There have been no major design changes to the radioactive waste systems reviewed by the Plant Operations Review Committee (PORC) or the Decommissioning Safety Review Committee (DSRC) during the period covered by this report.

Issue 1 of the Decommissioning Offsite Dose Calculation Manual (DPP-5.4.2 attached to this report), was reviewed by the Decommissioning Safety Review Committee (DSRC) on December 7, 1992 and became effective December 8, 1992. In accordance with the guidance contained in NRC Generic Letter 89-01, the ODCM was revised to include information previously included in the Technical Specifications such as effluent monitoring requirements, monitor alarm setpoints, lower limits of detection, surveillance requirements, the radiological environmental monitoring program requirements, and reporting requirements. The ODCM also was revised to ensure dose calculations consistent with the pathways evaluated in the Environmental Report Supplement for Decommissioning. In addition, restrictions on liquid effluent releases were included to ensure downstream water quality in accordance with the Tritium Discharge Understanding reached with the Colorado Department of Health.

The Decommissioning Process Control Program procedures, (FSV-RW-PCP-A-100, FSV-RW-PCP-I-101 through FSV-RW-PCP-I-106) were reviewed by the DSRC and are also attached to this report. There were no other changes made to the PCP during 1992.

There were no liquid effluent activity monitors or their associated recorders inoperable for more than thirty days during this reporting period.

Radiation doses resulting from the release of radioactive liquid and gaseous effluents from Fort St. Vrain during this period are reported below. Radiation doses were calculated in accordance with the Fort St. Vrain Offsite Dose Calculation Manual which is based on NUREG-0472, "Radiological Effluent Technical Specifications for PWRs", NUREG-0133, "Preparation of Radiological Effluent Technical Specifications for Nuclear Power Plants", and other inputs from the NRC.

Doses were calculated for a "maximum exposed" individual present at all times of the year at the Emergency Planning Zone (EPZ), which was reduced from 590 meters to a minimum of 100 meters upon implementation of the DTS, and in the sector in which all of the activity was calculated to have been released. The following are the 1992 doses:

Liquid - 10CFR50

Whole Body	2.36E-05mrem
Bone	0.00 mrem
Liver	2.36E-05mrem
Thyroid	2.36E-05mrem
Kidney	2.36E-05mrem
GI	2.36E-05mrem

Gaseous - 10CFR50

Noble Gas Gamma	0.00 mrem
Noble Gas Beta	0.00 mrem

Iodine, Particulates, Tritium

Adult	
Whole Body	1.54E-02mrem
Organ(maximum)	1.54E-02mrem
Bone	0.00 mrem
Teen	
Whole Body	1.76E-02mrem
Organ(maximum)	1.76E-02mrem
Bone	0.00 mrem
Child	
Whole Body	2.53E-02mrem
Organ(maximum)	2.53E-02mrem
Bone	0.00 mrem
Infant	
Whole Body	1.96E-02mrem
Organ(maximum)	1.96E-02mrem
Bone	0.00 mrem

Gaseous - 10CFR20

Iodine, Particulates, Tritium	0.00 mrem
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All doses are within the limits of 10CFR20 and 10CFR50 and demonstrate conformance with the exposure limit in 40CFR190 of 25 mrem to the total body, 75 mrem to the thyroid, and 25 mrem to any organ.

To show conformance with 40CFR190 subpart B, the total curies of krypton released from Fort St. Vrain was 0.00 Ci. The 29.78 keV iodine-129 peak is below the minimum detectable energy of our detectors. However, waste streams are regularly analyzed specifically for iodine-129 for compliance with 10CFR61. The results of these analyses have been less than the LLD. There has been no measured iodine-131 released during this period. The reactor has been shutdown since August 29, 1989. Any iodine-131 which was produced by the fission process has undergone in excess of 100 half-lives decay. It is assumed the release of iodine-131 to the environment would be impossible, therefore, iodine-131 analysis has been discontinued in accordance with the decommissioning GDCM.

An annual land use census was performed as part of the Fort St. Vrain Radiological Environmental Monitoring Program. Changes made to environmental sampling locations as a result of the land use census are reported in the annual Radiological Environmental Monitoring Program Report.

Effluent and Waste Disposal Annual Report

Supplemental Information

Facility: Fort St. Vrain Nuclear Generating Station

Licensee: Public Service Company of Colorado

1. Regulatory Limits

All results of radioactivity analyses of gaseous and liquid effluent are used in accordance with the methodology and parameters listed in the Offsite Dose Calculation Manual (DPP-5.4.2) to assure that the concentrations at the point of release are maintained within the regulatory limits contained in the Offsite Dose Calculation Manual (ODCM). These limits ensure the quantity of radioactive effluent released from the plant is maintained as low as reasonably achievable, and in any event, within the limits of 10CFR20 and in accordance with 10CFR50.

The air dose due to noble gases released in gaseous effluent at the unrestricted area is limited to:

- a) 5 millirads gamma and 10 millirads beta during any calendar quarter, and,
- b) 10 millirads gamma and 20 millirads beta during any calendar year.

The dose to a member of the public due to I-131, tritium, and radioactive particulates with half-lives longer than eight days in gaseous effluents will be limited to:

- a) 7.5 millirems to any organ during any calendar quarter, and,
- b) 15 millirems to any organ during any calendar year.

The dose rate due to radioactive gaseous effluent is limited to the following:

- a) For noble gases, less than or equal to 500 millirems per year to the total body and less than or equal to 3000 millirems per year to the skin, and,

- b) For I-131, tritium, and radioactive particulates with half-lives greater than eight days, less than or equal to 1500 millirems per year to any organ.

The dose or dose commitment to a member of the public from radioactive materials in liquid effluents released to unrestricted areas is limited as follows:

- a) During any calendar quarter to less than or equal to 1.5 millirems to the total body and to less than or equal to 5 millirems to any organ, and,
- b) During any calendar year to less than or equal to 3 millirems to the total body and to less than or equal to 10 millirems to any organ.

2. Maximum Permissible Concentrations (MPC's)

All MPC's used in determining allowable release rates from the gas and liquid waste systems were those listed in Table II, Columns 1 and 2 respectively, of Appendix B to 10CFR20. In addition, for the MPC of dissolved noble gases in liquid effluent, the value of 2.00E-04 microcuries per milliliter was used.

For the purposes of calculating allowable gaseous release rates, the MPC<sub>air</sub> for halogens and particulates with half-lives longer than eight days were reduced by a factor of 700 from their listed value in Table II, Column 1, of Appendix B to 10CFR20.

3. Average Energy

The average energy (E-Bar) of the radionuclide mixture in releases of fission and activation gases was not calculated or used at this facility.

4. Measurements and Approximations of Total Radioactivity

a) Fission and Activation Gases

Batch releases from the gas waste holdup system were performed after sampling and analyses for noble gases and tritium. These analytical results were used (along with atmospheric dilution factors) to determine the allowable release rate. The gas was then released through a gas waste header which was monitored by a noble gas monitor and an iodine monitor. In the event of high activity, header control functions would have been initiated to divert the gas back to the gas waste holdup system.

During the 4th quarter, 1992, the PCRV vent piping was configured to allow direct release to the Reactor Building Ventilation Exhaust System (slipstream releases). Weekly sampling and analysis were performed on this continuous release. This release methodology is acceptable because of the low activity level of gas within the PCRV.

All radioactive gases were released to the Reactor Building exhaust ventilation system which has a flow rate of approximately 20,000 cubic feet per minute. The full-flow of this exhaust was directed through high efficiency particulate filters (HEPA) and activated charcoal beds prior to the release to the environment until the 4th quarter 1992. At this time, due to the absence of iodine, the charcoal adsorbers were removed since they constituted a fire hazard.

Downstream of the activated charcoal beds, the gas stream radioactivity was continuously monitored and recorded by noble gas monitors, particulate monitors, and iodine monitors.

b) Iodines

For gaseous iodine, the Reactor Building exhaust ventilation was monitored and recorded on a continuous basis through December 7, 1992 at which time the DTS became effective and the requirement was eliminated. The reactor was shut down permanently in August of 1989 and the fuel removed completely in May of 1992 resulting in the elimination of the iodine source term. Up to December 7, 1992, the 2-inch iodine cartridges used in these monitors were removed from service each week and quantitatively analyzed on a gamma spectroscopy system. The quantity of radioiodine released during the period was calculated based on the integrated flow during the collection period.

c) Particulates

A 2-inch particulate filter was removed and analyzed each week. Gross beta analysis, as well as gamma spectral analyses, was performed to identify and quantify any radionuclides. The quantity of any radionuclides on this filter with half-lives greater than eight days was similarly correlated to total flow during the collection period.

d) Liquid Effluents

All liquid effluent discharged from the site reached the unrestricted area at the Goosequill Ditch. From that point, the effluent can be diverted to the St. Vrain Creek via the St. Vrain Slough or, more commonly, diverted to the Farm Pond which is approximately one mile north of the plant site. Outfall from the Farm Pond reaches the South Platte River. Both rivers converge approximately 1-1/2 miles from the plant site. The average stream flow reported in section 5a of this supplemental report is a summation of both rivers, and was received and tabulated from data provided by the Colorado Department of Natural Resources in Greeley, Colorado.

Liquid effluent was released from the site using both a continuous and batch mode. The continuous mode (automatic discharge mode) was used on the Turbine Building Sump effluent where the only identified radionuclide was tritium. This discharge path utilized a continuous sampler and an aliquot of this composite sampler was taken three times per week and analyzed for gross beta, gross alpha, tritium, and gamma emitters. Calculations utilizing pump run timers and measured discharge rates enabled us to calculate the total activity released via this pathway based on composite sample results. Since compositing of these samples was no longer required by the Decommissioning Technical Specifications or the ODCM, total curies from those discharges were calculated from individual sample results. Discharge from the Turbine Building Sump was made directly to the unrestricted area with no dilution. Effective with the implementation of the DTS, the Turbine Building Sump discharge was no longer defined as a radiological effluent pathway in that the radioactive source term was eliminated.

The batch release mode is used on the Reactor Building Sump effluent and the radioactive liquid waste system. The Reactor Building Sump area can hold several hundred thousand gallons of waste water from various sources which could be contaminated. The liquid waste system consists of two 2000 gallon receivers, one 2000 gallon monitoring tank, and associated filters and demineralizers. This system was designed to collect and process contaminated waste water resulting from reactor and laboratory operations.

Prior to implementation of the DTS, before each liquid batch release, duplicate samples were quantitatively analyzed for their radioactive constituents. Following the implementation of the DTS only a single sample of each liquid batch release was taken. These analyses include gross beta, gross alpha, tritium, and gamma spectral analyses. The results of these analyses, and other analyses as dictated by the gross beta results, were used to determine the maximum release rate from the site. The liquid effluent, normally released at or less than 10 gallons per minute, was diluted with cooling tower blowdown which runs at or more than 1100 gallons per minute. The resulting mixture was sampled during the release period to confirm compliance with regulatory limits.

The liquid effluent from the batch release mode was monitored continuously by redundant gamma activity monitors.

All tank level indicating devices, flow monitoring and recording devices, and radiation monitoring equipment were calibrated and maintained at scheduled intervals in accordance with established procedures.

Composite samples from batch releases and continuous releases for Quarters 1, 2, and 3 were analyzed for Sr-89 and Sr-90. All sample results were conservatively decay-corrected to the start of the composite period. Compositing was not required for Sr-90 during Q4. All previous composites showed results less than MDA for Sr-89 and Sr-90.

e) Overall Errors

The overall error associated with determining the total activity released from the site for both gaseous and liquid effluent is estimated to be 17.3 percent. This value is the square root of the sum of squares of counting statistics and associated calibration errors, sampling errors, and tank volume estimates, each considered to be plus or minus 10 percent.

5. Batch Releases (All of 1992)

a) Liquid

Number of Batch Releases	86
Total Time Period for Batch Releases	4.70E+02 HOURS
Maximum Time Period for a Batch Release	1.61E+01 HOURS
Average Time Period for a Batch Release	5.46E+00 HOURS
Minimum Time Period for a Batch Release	1.62E+00 HOURS
Average Stream Flow During Periods of Release of Effluent into a Flowing Stream	1.54E+05 GPM*

\* Gallons Per Minute

b) Gaseous

Number of Batch Releases	59
Total Time Period for Batch Release	1.22E+03 HOURS
Maximum Time Period for Batch Release	1.03E+02 HOURS
Average	2.07E+01 HOURS
Minimum	1.67E+00 HOURS

6. Abnormal Releases (All of 1992)

a) Liquid

Number of Releases	-0-
Total Activity Released	N/A CURIES

b) Gaseous

Number of Releases	-0-
Total Activity Released	N/A CURIES



TABLE 1A  
 EFFLUENT AND WASTE DISPOSAL (1992)  
 GASEOUS EFFLUENT - SUMMATION OF ALL RELEASES

	Unit	Quarter 1	Quarter 2	Estimated Total Error %
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A. Fission and activation gases

1. None detected

B. Iodine

1. Total iodine-131	Ci	<3.53E-06	<3.53E-06	1.73E+01
2. Average release rate for period	μCi/sec	<4.49E-07	<4.49E-07	
3. Percent of Technical Specification Limit	%	0.00	0.00	

C. Particulates

1. Particulates with half-lives >8 days	Ci	<1.18E-07	<1.30E-07	1.73E+01
2. Average release rate for period	μCi/sec	<1.50E-08	<1.66E-08	
3. Percent of Technical Specification Limit	%	0.00	0.00	
3. Gross alpha radioactivity		<2.70E-08	<3.00E-08	

TABLE 1A (Continued)

	Unit	Quarter 1	Quarter 2	Estimated Total Error ‡
--	------	--------------	--------------	----------------------------------

D. Tritium

1. Total Release	Ci	1.83E-02	1.44E-02	1.73E+01
2. Average release rate for period	μCi/sec	2.33E-03	1.83E-03	
3. Percent of Technical Specification Limit	‡	3.88E-05	3.05E-05	

TABLE 1A  
 EFFLUENT AND WASTE DISPOSAL (1992)  
 GASEOUS EFFLUENT - SUMMATION OF ALL RELEASES

	Unit	Quarter 3	Quarter 4	Estimated Total Error %
--	------	--------------	--------------	----------------------------------

A. Fission and activation gases

1. None detected.

B. Iodine

1. None detected.

C. Particulates

1. None detected.

D. Tritium

1. Total Release	Ci	2.17E-02	6.50E-03	1.73E+01
2. Average release rate for period	μCi/sec	2.73E-03	8.18E-04	
3. Percent of Technical Specification Limit	%	4.55E-05	1.36E-05	

TABLE 1C  
 EFFLUENT AND WASTE DISPOSAL (1992)  
 GASEOUS EFFLUENTS -- GROUND-LEVEL RELEASE

CONTINUOUS  
 MODE

BATCH MODE

Nuclides Released	Unit			Quarter 1	Quarter 2
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1. Fission Gases

krypton-85	Ci			<6.94E-01	<8.79E-01
krypton-85m	Ci				
krypton-87	Ci			<5.28E-03	<6.69E-03
krypton-88	Ci			<6.64E-03	<8.41E-03
xenon-133	Ci			<6.79E-03	<8.60E-03
xenon-135	Ci			<1.82E-03	<2.31E-04
xenon-135m	Ci				
xenon-138	Ci			<3.01E-02	<2.81E-02
xenon-133m	Ci			<1.69E-02	<2.13E-02
xenon-131m	Ci				
argon-41	Ci				
Total for period **	Ci			**	**

Iodines

iodine-131	Ci			<1.59E-10	<2.02E-10
iodine-133	Ci				
iodine-135	Ci				
Total for Period **				**	**

\*\* Total values do not include "<" data.

TABLE 1C (Continued)

CONTINUOUS  
MODE

BATCH MODE

Nuclides Released	Unit			Quarter 1	Quarter 2
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Particulates

strontium-89	Ci				
strontium-90	Ci				
cesium-134	Ci			<1.67E-10	<2.11E-10
cesium-137	Ci			<1.80E-10	<2.27E-10
barium-lanthanum-140	Ci				

TABLE 1C  
 EFFLUENT AND WASTE DISPOSAL (1992)  
 GASEOUS EFFLUENTS -- GROUND-LEVEL RELEASE

CONTINUOUS  
 MODE

BATCH MODE

Nuclides Released	Unit			Quarter 3	Quarter 4
-------------------	------	--	--	-----------	-----------

1. Fission Gases

krypton-85	Ci			ND*	ND
krypton-85m	Ci			ND	ND
krypton-87	Ci			ND	ND
krypton-88	Ci			ND	ND
xenon-133	Ci			ND	ND
xenon-135	Ci			ND	ND
xenon-135m	Ci			ND	ND
xenon-138	Ci			ND	ND
xenon-133m	Ci			ND	ND
xenon-131m	Ci			ND	ND
argon-41	Ci			ND	ND
Total for period	Ci			ND	ND

Iodines

iodine-131	Ci			ND	ND
iodine-133	Ci			ND	ND
iodine-135	Ci			ND	ND
Total for Period				ND	ND

\* None detected.

TABLE 1C (Continued)

CONTINUOUS  
MODE

BATCH MODE

Nuclides Released	Unit			Quarter 3	Quarter 4
-------------------	------	--	--	-----------	-----------

Particulates

strontium-89	Ci			ND*	ND
strontium-90	Ci			ND	ND
cesium-134	Ci			ND	ND
cesium-137	Ci			ND	ND
barium-lanthanum-140	Ci			ND	ND

\* None detected.

TABLE 2A  
 EFFLUENT AND WASTE DISPOSAL (1992)  
 LIQUID EFFLUENT - SUMMATION OF ALL RELEASES

	Units	Qtr 1	Qtr 2	Est. Total Error %
--	-------	-------	-------	--------------------

A. Fission and Activation Products

1. Total Release	Ci	3.39E-05*	6.88E-05*	1.73E+01
2. Average diluted concentration	μCi/ml	6.21E-11	1.26E-10	
3. % of Applicable Limit	%	2.07E-04	4.20E-04	

B. Tritium

1. Total Release	Ci	2.72E+00*	1.20E+00*	1.73E+01
2. Average diluted concentration	μCi/ml	4.99E-06	2.20E-06	
3. % of Applicable Limit	%	1.66E-01	7.33E-02	

C. Gross Alpha Radioactivity

1. Total Release	Ci	1.54E-05*	6.58E-06*	1.73E+01
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\* Combination of analysis results of less than MDA values and positive values.



TABLE 2A (Continued)

	Units	Qtr 1	Qtr 2	Est. Total Error %
--	-------	-------	-------	-----------------------------

D. Volume of Waste Released

prior to dilution	Liters	6.87E+06	6.34E+06	1.00E+01
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E. Volume of Dilution Water Used During Release

	Liters	5.46E+08	5.46E+08	1.00E+01
--	--------	----------	----------	----------

\* Combination of analysis results of less than MDA values and positive values.

TABLE 2A

EFFLUENT AND WASTE DISPOSAL (1992)  
LIQUID EFFLUENT - SUMMATION OF ALL RELEASES

	Nuclide	Units	Qtr 3	Qtr 4	Est. Total Error %
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## A. Fission and Activation Products

1. Total Release	Co-60	Ci	5.90E-06	3.76E-06	1.73E+01
2. Average diluted concentration		μCi/ml	1.07E-11	6.82E-12	
3. % of Applicable Limit		%	3.57E-05	2.27E-05	

## B. Tritium

1. Total Release	H-3	Ci	1.52E-01	3.98E-02	1.73E+01
2. Average diluted concentration		μCi/ml	2.76E-07	7.22E-08	
3. % of Applicable Limit		%	9.20E-03	2.41E-03	

## C. Gross Alpha Radioactivity

1. Total Release		Ci	ND*	ND	1.73E+01
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\* None detected.

TABLE 2A (Continued)

	Nuclide	Units	Qtr 3	Qtr 4	Est. Total Error &
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D. Volume of Waste Released

prior to dilution		Liters	7.52E+06	4.47E+06	1.00E+01
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E. Volume of Dilution Water Used During Release

		Liters	5.52E+08	5.52E+08	1.00E+01
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TABLE 2B  
EFFLUENT AND WASTE DISPOSAL (1992)  
LIQUID EFFLUENTS

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter 1	Quarter 2	Quarter 1	Quarter 2
strontium-89	Ci	<3.91E-05	<2.22E-05	<3.63E-06	<3.82E-06
strontium-90	Ci	<1.19E-05	<8.94E-06	<1.09E-06	<1.54E-06
cesium-134	Ci	<3.64E-04	<3.09E-04	<2.57E-05	<5.05E-05
cesium-137	Ci	<3.84E-04	<3.27E-04	<2.72E-05	<5.35E-05
iodine-131	Ci	<2.81E-04	<2.39E-04	<1.99E-05	<3.90E-05
cobalt-58	Ci	<3.49E-04	<2.97E-04	<2.47E-05	<4.86E-05
cobalt-60	Ci	<4.84E-04	<4.12E-04	3.39E-05*	6.88E-05*
iron-59	Ci	<7.82E-04	<6.65E-04	<5.53E-05	<1.09E-04
zinc-65	Ci	<8.78E-04	<7.47E-04	<6.22E-05	<1.22E-04
manganese-54	Ci	<3.67E-04	<3.12E-04	<2.59E-05	<5.10E-05
chromium-51	Ci				
zirconium-niobium-95	Ci				
molybdenum-99	Ci	<2.49E-03	<2.12E-03	<1.77E-04	<3.47E-04
technetium-99m	Ci				
barium-lanthanum-140	Ci				
cerium-141	Ci	<4.65E-04	<3.95E-04	<3.29E-05	<6.46E-05
tritium	Ci	2.53E-03*	2.21E-03*	2.72E+00	1.20E+00
Total for period (above)	Ci	2.53E-03*	2.21E-03*	2.72E+00	1.20E+00

\* Combination of analysis results of less than MDA values and positive values.

TABLE 2B (Continued)

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter 1	Quarter 2	Quarter 1	Quarter 2
xenon-133	Ci	<7.89E-04	<6.70E-04	<5.58E-05	<1.10E-04
xenon-135	Ci	<2.48E-04	<2.11E-04	<1.76E-05	<3.46E-05

TABLE 2B  
EFFLUENT AND WASTE DISPOSAL (1992)  
LIQUID EFFLUENTS

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter 3	Quarter 4	Quarter 3	Quarter 4
strontium-89	Ci	ND*	ND	ND	ND
strontium-90	Ci	ND	ND	ND	ND
cesium-134	Ci	ND	ND	ND	ND
cesium-137	Ci	ND	ND	ND	ND
iodine-131	Ci	ND	ND	ND	ND
cobalt-58	Ci	ND	ND	ND	ND
cobalt-60	Ci	ND	ND	5.90E-06	3.76E-05
iron-59	Ci	ND	ND	ND	ND
zinc-65	Ci	ND	ND	ND	ND
manganese-54	Ci	ND	ND	ND	ND
chromium-51	Ci	ND	ND	ND	ND
zirconium-niobium-95	Ci	ND	ND	ND	ND
molybdenum-99	Ci	ND	ND	ND	ND
technetium-99m	Ci	ND	ND	ND	ND
barium-lanthanum-140	Ci	ND	ND	ND	ND
cerium-141	Ci	ND	ND	ND	ND
tritium	Ci	ND	ND	1.52E-01	3.98E-02
Total for period (above)	Ci	ND	ND	1.52E-01	3.98E-02

\* None detected.

TABLE 2B (continued)

CONTINUOUS MODE

BATCH MODE

Nuclides Released	Unit	Quarter 3	Quarter 4	Quarter 3	Quarter 4
xenon-133	Ci	ND*	ND	ND	ND
xenon-135	Ci	ND	ND	ND	ND

\* None detected.

TABLE 3

EFFLUENT AND WASTE DISPOSAL (1992)  
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

## A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (not irradiated fuel)

1. Type of waste	Unit	12 Month Period	Est. Total Error, %
a. Spent resins, filter sludges, evaporator bottoms, etc.	m <sup>3</sup> Ci	0.00 E+00 0.00 E+00	0.00 E+00
b. Dry compressible waste, contaminated equip, etc.	m <sup>3</sup> Ci	1.34 E+01 7.88 E+00	1.00 E+01
c. Irradiated components, control rods, etc.	m <sup>3</sup> Ci	3.66 E+02 3.27 E+04	1.00 E+01
d. Other (describe)	m <sup>3</sup> Ci	0.00 E+00 0.00 E+00	0.00 E+00

## 2. Estimate of major nuclide composition (by type of waste)

a. N/A		
b. Fe-55	85.75%	6.76 E+00
Co-60	7.69%	6.06 E-01
H-3	5.60%	4.42 E-01
c. Fe-55	54.13%	1.77 E+04
Co-60	21.60%	7.06 E+03
Ni-63	17.56%	5.74 E+03
H-3	5.30%	1.73 E+03
Mn-54	1.36%	4.44 E+02
d. N/A		

## 3. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
70	Public Highway	US Ecology, Inc. Beatty, NV

## B. IRRADIATED FUEL SHIPMENTS (Disposition)

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
None		



TABLE 4A  
HOURLY METEOROLOGICAL DATA

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

WIND DIRECTION	WIND SPEED - MPH					TOTAL	
	0.75-3	4-7	8-12	13-18	19-24		
H	41.34	61.43	61.34	41.68	12.34	3.03	220.55
NNE	44.70	73.82	38.59	22.95	8.83	2.78	191.68
NE	48.67	89.01	35.80	14.63	0.76	0.25	189.13
ENE	42.16	92.29	30.51	3.54	0.25	0.00	168.75
E	32.52	90.72	24.43	7.82	0.00	0.00	155.49
ESE	31.52	83.40	35.54	4.79	0.50	0.00	155.75
SE	32.80	85.62	34.54	4.77	0.25	0.25	158.24
SSE	39.39	62.03	26.24	7.56	1.01	0.25	136.48
S	48.74	86.00	21.20	4.28	9.00	0.00	160.23
SSW	47.16	74.41	10.61	0.75	0.00	0.00	132.93
SW	40.68	73.73	11.09	1.77	0.25	0.00	127.52
WSW	32.85	53.22	14.87	3.28	0.50	0.00	104.72
W	14.37	17.37	8.89	3.53	1.01	0.50	45.68
WNW	6.57	8.59	6.06	8.57	1.52	2.27	33.56
WW	11.09	27.95	12.12	4.81	3.03	0.76	59.76
WNW	22.69	44.38	37.03	33.06	9.32	1.01	147.49
TOTAL	537.24	1623.96	408.95	167.19	39.57	11.11	2187.93

TIME DURATION OF CALMS = 35.07 HRS.

TIME IN STABILITY CLASS = 2223.00 HRS.

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD 92/ 1/ 1 THRU 92/ 6/30

STABILITY CLASS B

WIND DIRECTION	WIND SPEED - MPH						TOTAL
	0.75-3	4-7	8-12	13-18	19-24	24	
N	1.52	1.77	1.76	0.25	0.00	0.00	5.30
NNE	2.26	2.52	0.25	0.00	0.00	0.00	5.03
NNE	1.77	3.52	0.25	0.00	0.00	0.00	5.54
ENE	1.26	1.76	0.00	0.00	0.00	0.00	3.02
E	1.26	0.75	0.00	0.00	0.00	0.00	2.02
ESE	0.50	0.25	0.00	0.00	0.00	0.00	0.76
SE	1.90	1.26	1.01	0.00	0.00	0.00	3.28
SSE	0.25	0.50	0.25	0.00	0.00	0.00	1.01
S	1.26	2.26	0.00	0.00	0.00	0.00	3.52
SSW	1.26	2.27	0.25	0.00	0.00	0.00	3.78
SW	1.26	2.52	0.00	0.00	0.00	0.00	3.78
WSW	2.52	2.02	0.25	0.00	0.00	0.00	4.77
W	0.75	0.76	0.00	0.00	0.00	0.00	1.51
WNW	1.01	0.50	0.25	0.00	0.00	0.00	1.76
W	0.76	1.51	0.51	0.00	0.00	0.00	2.77
NNW	2.02	1.51	0.51	0.75	0.00	0.00	4.77
TOTAL	20.66	25.76	3.39	1.00	0.00	0.00	52.66

TIME DURATION OF CALMS = 1.76 HRS.

TIME IN STABILITY CLASS = 54.42 HRS.

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

WIND DIRECTION	0.75-3	4-7	8-12	13-18	19-24	>24	TOTAL
all	3.53	3.29	2.77	9.90	0.00	0.00	9.59
NNE	2.52	2.01	0.25	0.00	0.00	0.00	4.78
NE	2.22	3.63	9.60	0.00	0.00	0.00	5.25
ENE	1.26	1.52	0.25	0.00	0.00	0.00	3.03
E	1.01	0.00	0.00	0.00	0.00	0.00	1.01
ESE	1.01	0.00	0.00	0.00	0.00	0.00	1.01
E	2.28	1.76	0.50	0.00	0.00	0.00	4.54
SSE	1.27	0.75	0.00	0.00	0.00	0.00	2.02
S	1.01	2.02	0.00	0.00	0.00	0.00	3.02
SSW	3.01	1.02	0.00	0.00	0.00	0.00	4.03
SW	2.78	3.28	0.00	0.00	0.00	0.00	6.06
WSW	2.52	1.77	0.76	0.00	0.00	0.00	5.05
W	1.51	1.01	0.60	6.00	0.00	0.00	2.52
WNW	0.76	0.76	0.90	0.00	0.00	0.00	1.52
WW	1.00	1.26	0.00	0.00	0.00	0.00	2.26
WNW	1.51	1.57	0.75	0.50	0.25	0.00	4.57
TOTAL	29.19	25.64	5.29	9.50	0.25	0.00	60.28

TIME DURATION OF CALMS = 2.02 HRS.

TIME IN STABILITY CLASS = 62.30 HRS.

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD 92/ 1/ 1 THRU 92/ 6/30

WIND DIRECTION	STABILITY CLASS	D	WIND SPEED - MPH					TOTAL	
			0.75-3	4-7	8-12	13-18	19-24		24
H			5.30	8.06	3.78	0.25	0.00	0.00	17.40
NNE			7.57	9.32	0.50	0.00	0.00	0.00	17.40
NE			9.08	9.08	0.25	0.00	0.00	0.00	18.41
ENE			8.05	4.54	0.25	0.00	0.00	0.00	12.84
E			5.00	1.01	0.25	0.25	0.00	0.00	7.32
ESE			4.28	2.77	0.51	0.00	0.00	0.00	7.56
SE			5.05	2.02	0.50	0.00	0.00	0.00	7.57
SSE			7.57	2.77	1.01	0.25	0.00	0.00	11.62
S			7.56	5.09	0.51	0.00	0.00	0.00	13.86
SSW			12.00	7.37	0.25	0.00	0.00	0.00	19.70
SW			12.92	10.99	0.25	0.00	0.00	0.00	24.17
WSW			10.04	10.35	1.26	0.25	0.00	0.00	22.70
W			3.52	2.26	0.19	0.25	0.00	0.00	6.23
WNW			2.53	3.28	1.01	0.00	0.00	0.00	6.82
HW			5.04	5.53	1.26	0.25	0.25	0.00	12.33
NNW			4.77	7.30	2.51	0.76	0.25	0.00	15.62
TOTAL			112.02	92.45	14.31	2.27	0.59	0.00	221.55

TIME DURATION OF CALMS = 8.04 HRS.

TIME IN STABILITY CLASS = 230.38 HRS.

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

WIND DIRECTION	STABILITY CLASS	WIND SPEED - MPH					TOTAL	
		0.75-3	4-7	8-12	13-18	17-24		24
N	E	5.79	3.57	2.52	0.59	0.00	0.60	17.39
NNE	E	7.30	8.57	0.25	0.00	0.00	0.00	16.63
NE	E	10.10	7.57	0.00	0.00	0.00	0.00	17.67
ENE	E	8.36	5.56	0.50	0.00	0.00	0.00	14.43
E	E	7.08	2.27	0.25	0.00	0.00	0.00	9.60
ESE	E	6.06	1.26	0.00	0.00	0.00	0.00	7.32
SE	E	6.00	3.76	0.25	0.00	0.00	0.00	10.02
SSE	E	9.08	1.76	0.00	0.00	0.00	0.00	10.84
S	E	14.86	9.33	0.76	0.00	0.00	0.00	24.95
SSW	E	18.56	11.07	0.00	0.00	0.00	0.00	27.63
SW	E	20.40	21.95	0.51	0.00	0.00	0.00	42.85
WSW	E	17.16	24.72	0.76	0.00	0.00	0.00	42.64
W	E	7.07	3.63	0.50	0.00	0.00	0.00	11.20
WNW	E	2.02	4.03	0.50	1.01	0.25	0.00	7.81
WW	E	4.30	6.55	1.51	0.25	0.00	0.00	12.62
WNW	E	7.56	4.62	1.26	0.00	0.00	0.00	13.44
TOTAL	E	153.00	125.23	9.58	1.77	0.25	0.60	289.83

TIME DURATION OF CALMS = 13.61 HRS.

TIME IN STABILITY CLASS = 303.44 HRS.

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

WIND DIRECTION	STABILITY CLASS	WIND SPEED - MPH						TOTAL
		0.75-3	4-7	8-12	13-18	19-24	24	
N	F	3.03	1.01	0.00	0.00	0.00	0.00	4.04
NNE	F	6.30	5.05	0.00	0.00	0.00	0.00	11.34
NE	F	6.32	4.94	0.00	0.00	0.00	0.00	10.36
ENE	F	5.29	2.78	0.25	0.00	0.00	0.00	8.33
E	F	7.56	1.26	0.60	0.00	0.00	0.00	8.82
ESE	F	3.28	0.25	0.00	0.00	0.00	0.00	3.53
SE	F	6.05	1.26	0.25	0.00	0.00	0.00	7.57
SSE	F	10.34	2.53	1.01	0.00	0.00	0.00	13.87
S	F	16.13	13.00	0.76	0.00	0.00	0.00	29.97
SSW	F	32.00	16.20	0.50	0.00	0.00	0.00	48.77
SW	F	23.20	28.07	0.25	0.00	0.00	0.00	51.53
WSW	F	15.71	21.70	0.51	0.00	0.00	0.00	37.91
W	F	6.57	3.79	1.26	0.00	0.00	0.00	11.60
WNW	F	3.52	4.28	1.01	0.25	0.00	0.00	9.06
W	F	3.29	6.30	2.27	0.00	0.00	0.00	11.86
WNW	F	3.28	3.28	1.51	0.00	0.00	0.00	8.06
TOTAL		151.92	114.80	9.59	0.25	0.00	0.00	276.64

TIME DURATION OF CALMS = 14.13 HRS.

TIME IN STABILITY CLASS = 290.78 HRS.

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

WIND DIRECTION	WIND SPEED - MPH								TOTAL
	0.75-3	4-7	8-12	13-18	19-24	24	24	24	
N	16.13	28.24	17.90	5.05	1.26	0.00	0.00	0.00	68.59
NNE	21.46	32.04	14.13	4.32	0.50	0.00	0.00	0.00	72.45
NE	22.18	41.60	13.86	2.02	0.76	0.00	0.00	0.00	80.43
ENE	13.87	35.05	13.68	0.00	0.50	0.00	0.00	0.00	63.11
E	13.10	31.89	7.58	9.75	0.00	0.00	0.00	0.00	53.32
ESE	11.85	34.05	13.11	4.78	0.50	0.00	0.00	0.00	64.29
SE	15.67	27.21	16.96	0.58	2.52	0.76	0.00	0.00	71.70
SSE	19.33	20.17	8.08	2.78	1.26	0.00	0.00	0.00	51.62
S	36.04	31.48	8.32	1.25	0.51	0.00	0.00	0.00	77.60
SSW	48.41	58.48	6.06	1.26	0.25	0.00	0.00	0.00	114.46
SW	60.68	96.68	6.81	1.51	0.76	0.00	0.00	0.00	166.43
WSW	47.69	56.26	6.26	0.25	0.00	0.25	0.00	0.00	110.72
W	16.17	11.64	2.77	1.51	0.25	0.00	0.00	0.00	32.33
WNW	10.59	8.26	2.28	1.52	0.00	0.00	0.00	0.00	22.65
W	12.85	20.41	5.35	1.26	0.75	0.00	0.00	0.00	40.63
WNW	15.33	26.47	6.30	4.29	0.75	0.00	0.00	0.00	53.14
TOTAL	381.35	559.95	149.44	41.13	10.58	1.01	0.00	0.00	1143.46

TIME DURATION OF CALMS = 48.66 HRS.

TIME IN STABILITY CLASS = 1192.12 HRS.



HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

STABILITY CLASS: TOTAL - ALL CLASSES

WIND DIRECTION	WIND SPEED - MPH						TOTAL
	0.75-3	4-7	8-12	13-18	19-24	24	
II	76.63	112.37	90.08	47.13	13.60	3.03	342.84
NNE	92.60	133.33	53.98	27.27	9.34	2.78	319.30
NIE	100.35	157.84	50.16	16.65	1.51	0.25	326.78
ENE	80.26	143.51	45.45	3.54	0.75	0.00	273.52
E	68.32	127.90	32.50	0.83	0.00	0.00	237.56
ESE	58.50	122.00	49.15	9.57	1.01	0.00	240.22
SE	69.65	122.09	54.03	13.35	2.77	1.01	263.71
SSE	87.25	90.52	36.59	10.59	2.27	0.25	227.46
S	125.59	149.97	31.55	5.54	6.51	0.00	313.15
SSW	162.55	170.82	17.67	2.02	0.25	0.00	353.31
SW	161.93	237.21	18.91	3.28	1.01	0.00	422.34
WSW	129.30	170.03	24.67	3.78	0.50	0.25	328.53
W	49.94	40.47	13.61	5.29	1.26	0.50	111.07
WNW	27.00	29.71	11.11	11.35	1.77	2.27	83.19
HW	38.33	69.53	23.02	6.56	4.03	0.76	142.23
NNW	57.17	89.12	49.88	39.38	10.57	1.01	247.13
TOTAL	1385.38	1967.22	602.37	214.12	51.15	12.12	4232.35

TIME DURATION OF CALMS = 124.09 HRS.

TIME IN STABILITY CLASS = 4356.44 HRS.

LOST TIME ALL CLASSES = 11.55 HRS.

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

WIND DIRECTION	STABILITY CLASS: A	WIND SPEED - MPH					TOTAL
		0-7-3	4-7	8-12	13-18	19-24	
H	1.861E-02	2.764E-02	2.762E-02	1.849E-02	5.554E-03	1.364E-03	9.926E-02
NNE	2.012E-02	3.322E-02	1.737E-02	1.033E-02	3.974E-03	1.252E-03	8.628E-02
NE	2.190E-02	4.006E-02	1.611E-02	6.586E-03	3.409E-04	1.143E-04	8.511E-02
ENE	1.897E-02	4.153E-02	1.373E-02	1.593E-03	1.129E-04	0.000E+00	7.594E-02
E	1.463E-02	4.003E-02	1.099E-02	3.519E-03	0.000E+00	0.000E+00	6.997E-02
ESE	1.419E-02	3.753E-02	1.599E-02	2.154E-03	2.288E-04	0.000E+00	7.009E-02
SE	1.476E-02	3.853E-02	1.554E-02	2.147E-03	1.125E-04	1.144E-04	7.121E-02
SSE	1.773E-02	2.791E-02	1.181E-02	3.402E-03	4.532E-04	1.143E-04	6.142E-02
S	2.194E-02	3.870E-02	9.540E-03	1.928E-03	0.000E+00	0.000E+00	7.211E-02
SSW	2.122E-02	3.349E-02	4.774E-03	3.393E-04	0.000E+00	0.000E+00	5.982E-02
SW	1.831E-02	3.318E-02	4.990E-03	7.963E-04	1.143E-04	0.000E+00	5.739E-02
WSW	1.478E-02	2.395E-02	6.692E-03	1.475E-03	2.269E-04	0.000E+00	4.713E-02
W	6.466E-03	7.818E-03	4.002E-03	1.588E-03	4.538E-04	2.271E-04	2.056E-02
WNW	2.955E-03	3.865E-03	2.725E-03	3.856E-03	6.823E-04	1.628E-03	1.510E-02
WW	4.992E-03	1.258E-02	5.455E-03	2.164E-03	1.363E-03	3.412E-04	2.689E-02
WNW	1.021E-02	1.977E-02	1.667E-02	1.488E-02	4.193E-03	4.525E-04	6.637E-02
TOTAL	2.418E-01	4.608E-01	1.840E-01	7.524E-02	1.781E-02	5.000E-03	9.846E-01

PROBABILITY OF CALM WITHIN STABILITY CLASS = 1.578E-02

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

WIND DIRECTION	STABILITY CLASS: B					WIND SPEED - MPH					TOTAL
	0.75-3	4-7	8-12	13-18	19-24	24					
N	2.786E-02	3.254E-02	3.238E-02	4.664E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.739E-02
NNE	4.145E-02	4.630E-02	4.594E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.235E-02
NE	3.252E-02	6.472E-02	4.594E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.019E-01
ENE	2.317E-02	3.239E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.556E-02
E	2.322E-02	1.386E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.708E-02
ESE	9.249E-03	4.671E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.372E-02
SE	1.838E-02	2.325E-02	1.859E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.021E-02
SSE	4.594E-03	9.255E-03	4.666E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.851E-02
S	2.317E-02	4.148E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.465E-02
SSW	2.306E-02	4.166E-02	4.666E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.939E-02
SW	2.313E-02	4.636E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.949E-02
WSW	4.633E-02	3.707E-02	4.671E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.827E-02
W	1.382E-02	1.394E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.776E-02
WNW	1.859E-02	9.193E-03	4.594E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.238E-02
HW	1.388E-02	2.779E-02	9.285E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.095E-02
NNW	3.719E-02	2.773E-02	9.306E-03	1.386E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.808E-02
TOTAL	3.796E-01	4.722E-01	9.735E-02	1.846E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.676E-01

PROBABILITY OF CALM WITHIN STABILITY CLASS = 3.238E-02

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

WIND DIRECTION	STABILITY CLASS	WIND SPEED - MPH					TOTAL
		0-75-3	4-7	8-12	13-18	19-24	
H		5.658E-02	5.274E-02	4.453E-02	0.000E+00	0.000E+00	1.539E-01
NNE		4.040E-02	3.232E-02	4.013E-03	0.000E+00	0.000E+00	7.673E-02
NE		3.566E-02	4.856E-02	0.000E+00	0.000E+00	0.000E+00	8.422E-02
ENE		2.024E-02	2.443E-02	4.031E-03	0.000E+00	0.000E+00	4.870E-02
E		1.616E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.616E-02
ESE		1.620E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.620E-02
SE		3.657E-02	2.823E-02	8.088E-03	0.000E+00	0.000E+00	7.289E-02
SSE		2.032E-02	1.211E-02	0.000E+00	0.000E+00	0.000E+00	3.242E-02
S		1.614E-02	3.238E-02	0.000E+00	0.000E+00	0.000E+00	4.852E-02
SSW		4.833E-02	1.631E-02	0.000E+00	0.000E+00	0.000E+00	6.464E-02
SW		4.467E-02	5.264E-02	0.000E+00	0.000E+00	0.000E+00	9.731E-02
WSW		4.051E-02	2.834E-02	1.217E-02	0.000E+00	0.000E+00	8.103E-02
W		2.426E-02	1.626E-02	0.000E+00	0.000E+00	0.000E+00	4.053E-02
WNW		1.220E-02	1.222E-02	0.000E+00	0.000E+00	0.000E+00	2.443E-02
W		1.606E-02	2.027E-02	0.000E+00	0.000E+00	0.000E+00	3.633E-02
NNW		2.425E-02	2.516E-02	1.212E-02	8.088E-03	4.026E-03	7.364E-02
TOTAL		4.686E-01	4.020E-01	8.495E-02	8.088E-03	4.026E-03	9.676E-01

PROBABILITY OF CALM WITHIN STABILITY CLASS = 3.242E-02

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD 92/ 1/ 1 THRU 92/ 6/30

WIND DIRECTION	STABILITY CLASS	WIND SPEED - MPH						TOTAL
		0.75-3	4-7	8-12	13-18	19-24	24	
N	D	2.360E-02	3.499E-02	1.643E-02	1.102E-03	0.000E+00	0.000E+00	7.552E-02
NNE	D	3.287E-02	4.046E-02	2.188E-03	0.000E+00	0.000E+00	0.000E+00	7.552E-02
NE	D	3.943E-02	3.940E-02	1.085E-03	0.000E+00	0.000E+00	0.000E+00	7.992E-02
ENE	D	3.494E-02	1.971E-02	1.102E-03	0.000E+00	0.000E+00	0.000E+00	5.575E-02
E	D	2.519E-02	4.378E-03	1.086E-03	1.100E-03	0.000E+00	0.000E+00	3.175E-02
ESE	D	1.059E-02	1.294E-02	2.192E-03	0.000E+00	0.000E+00	0.000E+00	3.282E-02
SE	D	2.191E-02	8.748E-03	2.191E-03	0.000E+00	0.000E+00	0.000E+00	3.284E-02
SSE	D	3.275E-02	1.203E-02	4.380E-03	1.085E-03	0.000E+00	0.000E+00	5.045E-02
S	D	3.280E-02	2.518E-02	2.197E-03	0.000E+00	0.000E+00	0.000E+00	6.017E-02
SSW	D	5.244E-02	3.199E-02	1.101E-03	0.000E+00	0.000E+00	0.000E+00	8.553E-02
SW	D	5.610E-02	4.770E-02	1.102E-03	0.000E+00	0.000E+00	0.000E+00	1.049E-01
WSW	D	4.705E-02	4.492E-02	5.479E-03	1.088E-03	0.000E+00	0.000E+00	9.853E-02
W	D	1.529E-02	9.826E-03	0.115E-04	1.101E-03	0.000E+00	0.000E+00	2.703E-02
WNW	D	1.099E-02	1.423E-02	4.389E-03	0.000E+00	0.000E+00	0.000E+00	2.961E-02
NW	D	2.188E-02	2.402E-02	5.462E-03	1.085E-03	1.085E-03	0.000E+00	5.353E-02
NNW	D	2.080E-02	3.168E-02	1.091E-02	3.294E-03	1.102E-03	0.000E+00	6.779E-02
TOTAL	D	4.862E-01	4.013E-01	6.210E-02	9.055E-03	2.187E-03	0.000E+00	9.617E-01

PROBABILITY OF CALM WITHIN STABILITY CLASS = 3.836E-02

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

WIND DIRECTION	0.75-3	WIND SPEED - MPH				TOTAL
		4-7	8-12	13-18	19-24	
N	1.909E-02	2.824E-02	0.310E-03	1.663E-03	0.000E+00	5.730E-02
NNE	2.572E-02	2.826E-02	0.377E-04	0.000E+00	0.000E+00	5.481E-02
NE	3.329E-02	2.493E-02	0.000E+00	0.000E+00	0.000E+00	5.823E-02
ENE	2.756E-02	1.834E-02	1.652E-03	0.000E+00	0.000E+00	4.755E-02
E	2.332E-02	7.480E-03	8.249E-04	0.000E+00	0.000E+00	3.162E-02
ESE	1.997E-02	4.164E-03	0.000E+00	0.000E+00	0.000E+00	2.413E-02
SE	2.242E-02	1.240E-02	8.359E-04	0.000E+00	0.000E+00	3.566E-02
SSE	2.993E-02	5.888E-03	0.000E+00	0.000E+00	0.000E+00	3.574E-02
S	4.898E-02	3.074E-02	2.511E-03	0.000E+00	0.000E+00	8.223E-02
SSW	6.116E-02	3.649E-02	0.000E+00	0.000E+00	0.000E+00	9.765E-02
SW	6.723E-02	7.234E-02	1.664E-03	0.000E+00	0.000E+00	1.412E-01
WSW	5.656E-02	8.147E-02	2.499E-03	0.000E+00	0.000E+00	1.405E-01
W	2.338E-02	1.198E-02	1.648E-03	0.000E+00	0.000E+00	3.672E-02
WNW	6.644E-03	1.329E-02	1.661E-03	3.333E-03	8.240E-04	2.575E-02
NW	1.418E-02	2.160E-02	4.985E-03	9.238E-04	0.000E+00	4.159E-02
NNW	2.491E-02	1.523E-02	4.160E-03	0.000E+00	0.000E+00	4.430E-02
TOTAL	5.043E-01	4.128E-01	3.159E-02	5.822E-03	8.240E-04	9.552E-01

PROBABILITY OF CALM WITHIN STABILITY CLASS = 4.485E-02

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

WIND DIRECTION	0.75-3	4-7	8-12	13-18	19-24	24	TOTAL
N	1.041E-02	3.486E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.390E-02
NNE	2.166E-02	1.735E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.902E-02
NE	2.173E-02	1.390E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.563E-02
ENE	1.821E-02	9.566E-03	8.598E-04	0.000E+00	0.000E+00	0.000E+00	2.864E-02
E	2.599E-02	4.341E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.033E-02
ESE	1.127E-02	8.703E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.214E-02
SE	2.082E-02	4.339E-03	8.732E-04	0.000E+00	0.000E+00	0.000E+00	2.603E-02
SSE	3.556E-02	8.687E-03	3.468E-03	0.000E+00	0.000E+00	0.000E+00	4.772E-02
S	5.547E-02	4.499E-02	2.609E-03	0.000E+00	0.000E+00	0.000E+00	1.031E-01
SSW	1.103E-01	5.572E-02	1.733E-03	0.000E+00	0.000E+00	0.000E+00	1.678E-01
SW	7.980E-02	9.655E-02	8.688E-04	0.000E+00	0.000E+00	0.000E+00	1.772E-01
WSW	5.402E-02	7.463E-02	1.747E-03	0.000E+00	0.000E+00	0.000E+00	1.304E-01
W	2.252E-02	1.302E-02	4.340E-03	0.000E+00	0.000E+00	0.000E+00	3.989E-02
WNW	1.212E-02	1.473E-02	3.467E-03	8.598E-04	0.000E+00	0.000E+00	3.117E-02
NW	1.130E-02	2.167E-02	7.820E-03	0.000E+00	0.000E+00	0.000E+00	4.079E-02
NNW	1.127E-02	1.127E-02	5.198E-03	0.000E+00	0.000E+00	0.000E+00	2.773E-02
TOTAL	5.225E-01	3.951E-01	3.298E-02	8.598E-04	0.000E+00	0.000E+00	9.515E-01

PROBABILITY OF CALM WITHIN STABILITY CLASS = 4.861E-02

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

STABILITY CLASS: 6

WIND DIRECTION	WIND SPEED - MPH					TOTAL
	0-75-3	4-7	8-12	13-18	19-24	
N	1.353E-02	2.370E-02	1.502E-02	4.238E-03	1.055E-03	5.755E-02
NNE	1.001E-02	2.688E-02	1.186E-02	3.623E-03	4.233E-04	6.079E-02
NE	1.062E-02	3.491E-02	1.163E-02	1.676E-03	6.354E-04	6.749E-02
ENE	1.164E-02	2.941E-02	1.148E-02	0.000E+00	4.203E-04	5.296E-02
E	1.099E-02	2.676E-02	6.357E-03	6.336E-04	0.000E+00	4.474E-02
ESE	9.943E-03	2.858E-02	1.100E-02	4.012E-03	4.231E-04	5.395E-02
SE	1.315E-02	2.203E-02	1.423E-02	7.201E-03	2.117E-03	6.017E-02
SSE	1.622E-02	1.693E-02	6.780E-03	2.334E-03	1.057E-03	4.332E-02
S	3.024E-02	2.642E-02	6.904E-03	1.052E-03	4.261E-04	6.512E-02
SSW	4.063E-02	4.908E-02	5.001E-03	1.059E-03	2.098E-04	9.605E-02
SW	5.092E-02	0.113E-02	5.718E-03	1.265E-03	6.338E-04	1.397E-01
WSW	4.002E-02	4.721E-02	5.251E-03	2.098E-04	0.000E+00	9.291E-02
W	1.357E-02	9.766E-03	2.322E-03	1.264E-03	2.131E-04	2.713E-02
WNW	0.887E-03	6.935E-03	1.913E-03	1.272E-03	0.000E+00	1.901E-02
NW	1.079E-02	1.713E-02	4.488E-03	1.054E-03	6.326E-04	3.409E-02
NNW	1.286E-02	2.221E-02	5.289E-03	3.604E-03	6.298E-04	4.459E-02
TOTAL	3.200E-01	4.699E-01	1.254E-01	3.452E-02	0.876E-03	9.595E-01

PROBABILITY OF CALM WITHIN STABILITY CLASS = 4.083E-02



PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

STABILITY CLASS	TOTAL	WIND SPEED - MPH						TOTAL
		0-7.5-3	4-7	8-12	13-18	19-24	24	
WIND DIRECTION N	1.761E-02	2.582E-02	2.070E-02	1.083E-02	3.124E-03	6.965E-04	7.877E-02	
NNE	2.128E-02	3.063E-02	1.240E-02	6.285E-03	2.145E-03	6.393E-04	7.336E-02	
NE	2.306E-02	3.626E-02	1.153E-02	3.826E-03	3.480E-04	5.833E-05	7.508E-02	
ENE	1.844E-02	3.297E-02	1.044E-02	8.131E-04	1.727E-04	0.000E+00	6.284E-02	
E	1.570E-02	2.939E-02	7.467E-03	2.028E-03	0.000E+00	0.000E+00	5.458E-02	
ESE	1.344E-02	2.803E-02	1.129E-02	2.198E-03	2.316E-04	0.000E+00	5.519E-02	
SE	1.600E-02	2.823E-02	1.241E-02	3.068E-03	6.370E-04	2.325E-04	6.059E-02	
SSE	2.804E-02	2.880E-02	8.406E-03	2.433E-03	5.286E-04	5.833E-05	5.226E-02	
S	2.885E-02	3.446E-02	7.240E-03	1.272E-03	1.167E-04	0.000E+00	7.194E-02	
SSW	3.735E-02	3.925E-02	4.061E-03	4.631E-04	5.744E-05	0.000E+00	8.117E-02	
SW	3.720E-02	5.450E-02	4.345E-03	7.530E-04	2.319E-04	0.000E+00	9.703E-02	
WSW	2.971E-02	3.906E-02	5.667E-03	8.681E-04	1.158E-04	5.827E-05	7.548E-02	
W	1.147E-02	9.297E-03	3.127E-03	1.215E-03	2.900E-04	1.160E-04	2.552E-02	
WNW	6.263E-03	6.825E-03	2.552E-03	2.686E-03	4.858E-04	5.286E-04	1.911E-02	
NW	8.806E-03	1.597E-02	5.289E-03	1.588E-03	9.267E-04	1.742E-04	3.268E-02	
NNW	1.314E-02	2.047E-02	1.146E-02	9.047E-03	2.429E-03	2.310E-04	5.678E-02	
TOTAL	3.183E-01	4.520E-01	1.384E-01	4.919E-02	1.175E-02	2.785E-03	9.724E-01	

PROBABILITY OF CALM WITHIN STABILITY CLASS = 2.851E-02

OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD 92/ 1/ 1 THRU 92/ 6/30

STABILITY CLASS	WIND DIRECTION	WIND SPEED - MPH							TOTAL
		0-75-3	4-7	8-12	13-18	19-24	24	24	
A	N	9.498E-03	1.411E-02	1.409E-02	9.437E-03	2.835E-03	6.965E-04	5.067E-02	
	NNE	1.027E-02	1.695E-02	8.866E-03	5.273E-03	2.029E-03	6.393E-04	4.404E-02	
	NE	1.118E-02	2.045E-02	8.226E-03	3.362E-03	1.740E-04	5.833E-05	4.345E-02	
	ENE	9.686E-03	2.129E-02	7.011E-03	8.131E-04	5.763E-05	0.000E+00	3.877E-02	
	E	7.471E-03	2.004E-02	5.612E-03	1.797E-03	0.000E+00	0.000E+00	3.572E-02	
	ESE	7.242E-03	1.916E-02	8.165E-03	1.099E-03	1.158E-04	0.000E+00	3.579E-02	
	SE	7.537E-03	1.967E-02	7.935E-03	1.096E-03	5.744E-05	5.839E-05	3.636E-02	
	SSE	9.050E-03	1.425E-02	6.028E-03	1.737E-03	2.313E-04	5.833E-05	3.135E-02	
	S	1.129E-02	1.976E-02	4.870E-03	9.941E-04	0.000E+00	0.000E+00	3.601E-02	
	SSW	1.083E-02	1.710E-02	2.437E-03	1.732E-04	0.000E+00	0.000E+00	3.054E-02	
	SW	9.346E-03	1.694E-02	2.547E-03	4.065E-04	5.833E-05	0.000E+00	2.930E-02	
	WSW	7.547E-03	1.223E-02	3.416E-03	7.531E-04	1.158E-04	0.000E+00	2.406E-02	
	W	3.301E-03	3.991E-03	2.043E-03	8.109E-04	2.317E-04	1.160E-04	1.049E-02	
	WNW	1.500E-03	1.973E-03	1.391E-03	1.968E-03	3.483E-04	5.206E-04	7.710E-03	
	NW	2.549E-03	6.422E-03	2.785E-03	1.105E-03	6.961E-04	1.742E-04	1.373E-02	
	NNW	5.212E-03	1.020E-02	8.508E-03	7.596E-03	2.140E-03	2.310E-04	3.308E-02	
	TOTAL	1.234E-01	2.353E-01	9.393E-02	3.841E-02	9.091E-03	2.553E-03	5.027E-01	

OVERALL PROBABILITY OF CALM OCCURRENCE = 8.058E-03

OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

WIND DIRECTION	STABILITY CLASS	WIND SPEED - MPH					TOTAL	
		0.75-3	4-7	8-12	13-18	19-24		24
N	R	3.4E3E-04	4.66E-04	4.649E-04	5.75E-05	0.000E+00	0.000E+00	1.218E-03
NNE	R	5.1E3E-04	5.789E-04	5.744E-05	0.069E+00	0.000E+00	0.000E+00	1.155E-03
NE	R	4.065E-04	8.092E-04	5.744E-05	0.000E+00	0.000E+00	0.000E+00	1.273E-03
NNE	R	2.897E-04	4.649E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.946E-04
E	R	2.902E-04	1.733E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.636E-04
ESE	R	1.156E-04	5.839E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.740E-04
SE	R	2.297E-04	2.966E-04	2.324E-04	0.000E+00	0.000E+00	0.000E+00	7.528E-04
SSE	R	5.744E-05	1.157E-04	5.833E-05	0.000E+00	0.000E+00	0.000E+00	2.315E-04
S	R	2.897E-04	5.186E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.083E-04
SSW	R	2.883E-04	5.209E-04	5.833E-05	0.000E+00	0.000E+00	0.000E+00	8.676E-04
SW	R	2.892E-04	5.796E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.688E-04
WSW	R	5.792E-04	4.635E-04	5.839E-05	0.000E+00	0.000E+00	0.000E+00	1.101E-03
W	R	1.728E-04	1.743E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.470E-04
WNW	R	2.324E-04	1.149E-04	5.744E-05	0.000E+00	0.000E+00	0.000E+00	4.048E-04
NW	R	1.735E-04	3.474E-04	1.161E-04	0.000E+00	0.000E+00	0.000E+00	6.370E-04
NNW	R	4.649E-04	3.467E-04	1.163E-04	1.733E-04	0.000E+00	0.000E+00	1.101E-03
TOTAL		4.746E-03	5.904E-03	1.217E-03	2.308E-04	0.000E+00	0.000E+00	1.210E-02

OVERALL PROBABILITY OF CALM OCCURRENCE = 4.049E-04

OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

WIND DIRECTION	STABILITY CLASS: C	WIND SPEED - MPH					TOTAL
		0-7.5-3	4-7	8-12	13-18	19-24	
N	0.099E-04	7.549E-04	6.374E-04	0.000E+00	0.000E+00	0.000E+00	2.282E-03
NNE	5.782E-04	4.626E-04	5.744E-05	0.000E+00	0.000E+00	0.000E+00	1.098E-03
NE	5.108E-04	6.951E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.205E-03
ENE	2.897E-04	3.496E-04	5.769E-05	0.000E+00	0.000E+00	0.000E+00	6.970E-04
E	2.313E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.313E-04
ESE	2.319E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.319E-04
SE	5.234E-04	4.041E-04	1.158E-04	0.000E+00	0.000E+00	0.000E+00	1.043E-03
SSE	2.908E-04	1.733E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.641E-04
S	2.316E-04	4.635E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.944E-04
SSW	6.918E-04	2.334E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.252E-04
SW	6.394E-04	7.534E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.393E-03
WSW	5.799E-04	4.057E-04	1.742E-04	0.000E+00	0.000E+00	0.000E+00	1.160E-03
W	3.473E-04	2.327E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.800E-04
WNW	1.747E-04	1.749E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.496E-04
NW	2.299E-04	2.901E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.200E-04
NNW	3.470E-04	3.601E-04	1.735E-04	1.150E-04	5.763E-05	0.000E+00	1.054E-03
TOTAL	6.707E-03	5.753E-03	1.216E-03	1.158E-04	5.763E-05	0.000E+00	1.385E-02

OVERALL PROBABILITY OF CALM OCCURRENCE = 4.640E-04

OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

WIND DIRECTION	STABILITY CLASS	WIND SPEED - MPH						TOTAL
		0-7	8-12	13-18	19-24	24	24	
N	0.75-3	1.852E-03	8.695E-04	5.833E-05	0.000E+00	0.000E+00	0.000E+00	3.997E-03
NNE		2.142E-03	1.158E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.997E-03
NE		2.085E-03	5.744E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.230E-03
ENE		1.043E-03	5.833E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.951E-03
E		2.317E-04	5.750E-05	5.820E-05	0.000E+00	0.000E+00	0.000E+00	1.681E-03
ESE		6.373E-04	1.160E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.737E-03
SE		4.630E-04	1.160E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.738E-03
SSE		6.366E-04	2.319E-04	5.744E-05	0.000E+00	0.000E+00	0.000E+00	2.670E-03
S		1.333E-03	1.163E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.185E-03
SSW		1.693E-03	5.827E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.527E-03
SW		2.525E-03	5.833E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.552E-03
WSW		2.377E-03	2.900E-04	5.756E-05	0.000E+00	0.000E+00	0.000E+00	5.215E-03
W		5.201E-04	4.295E-05	5.827E-05	0.000E+00	0.000E+00	0.000E+00	1.431E-03
WNW		7.532E-04	2.323E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.567E-03
NW		1.271E-03	2.891E-04	5.744E-05	5.744E-05	0.000E+00	0.000E+00	2.833E-03
NNW		1.677E-03	5.774E-04	1.744E-04	5.833E-05	0.000E+00	0.000E+00	3.588E-03
TOTAL		2.124E-02	3.287E-03	5.216E-04	1.158E-04	0.000E+00	0.000E+00	5.090E-02

OVERALL PROBABILITY OF CALM OCCURRENCE = 2.030E-03

OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

WIND DIRECTION	STABILITY CLASS	WIND SPEED - MPH					TOTAL
		0.75-3	4-7	8-12	13-18	19-24	
N	E	1.331E-03	1.968E-03	5.793E-04	1.159E-04	0.000E+00	3.974E-03
NNE	E	1.793E-03	1.970E-03	5.839E-05	0.000E+00	0.000E+00	3.821E-03
NE	E	2.321E-03	1.738E-03	0.000E+00	0.000E+00	0.000E+00	4.059E-03
ENE	E	1.921E-03	1.278E-03	1.152E-04	0.000E+00	0.000E+00	3.315E-03
E	E	1.626E-03	5.214E-04	5.750E-05	0.000E+00	0.000E+00	2.204E-03
ESE	E	1.392E-03	2.902E-04	0.000E+00	0.000E+00	0.000E+00	1.682E-03
SE	E	1.563E-03	8.644E-04	5.827E-05	0.000E+00	0.000E+00	2.486E-03
SSE	E	2.086E-03	4.049E-04	0.000E+00	0.000E+00	0.000E+00	2.491E-03
S	E	3.414E-03	2.143E-03	1.751E-04	0.000E+00	0.000E+00	5.732E-03
SSW	E	4.263E-03	2.544E-03	0.000E+00	0.000E+00	0.000E+00	6.807E-03
SW	E	4.687E-03	5.043E-03	1.160E-04	0.000E+00	0.000E+00	9.845E-03
WSW	E	3.942E-03	5.679E-03	1.742E-04	0.000E+00	0.000E+00	9.798E-03
W	E	1.624E-03	8.349E-04	1.149E-04	0.000E+00	0.000E+00	2.574E-03
WNW	E	4.631E-04	9.265E-04	1.158E-04	2.324E-04	5.744E-05	1.795E-03
NW	E	9.883E-04	1.506E-03	3.475E-04	5.756E-05	0.000E+00	2.899E-03
NNW	E	1.717E-03	1.061E-03	2.900E-04	0.000E+00	0.000E+00	3.088E-03
TOTAL		3.515E-02	2.877E-02	2.202E-03	4.058E-04	5.744E-05	6.659E-02

OVERALL PROBABILITY OF CALM OCCURRENCE = 3.126E-03

OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

WIND DIRECTION	STABILITY CLASS	WIND SPEED - MPH					TOTAL
		0.75-3	4-7	8-12	13-18	19-24	
N	F	6.954E-04	2.329E-04	9.000E+00	0.000E+00	0.000E+00	9.282E-04
NNE	F	1.447E-03	1.159E-03	0.000E+00	0.000E+00	0.000E+00	2.606E-03
NE	F	1.452E-03	9.284E-04	0.000E+00	0.000E+00	0.000E+00	2.380E-03
ENE	F	1.216E-03	6.390E-04	5.744E-05	0.000E+00	0.000E+00	1.913E-03
E	F	1.736E-03	2.900E-04	0.000E+00	0.000E+00	0.000E+00	2.026E-03
ESE	F	7.529E-04	5.814E-05	0.600E+00	0.000E+00	0.000E+00	8.110E-04
SE	F	1.391E-03	2.899E-04	5.833E-05	0.000E+00	0.000E+00	1.739E-03
SSE	F	2.376E-03	5.803E-04	2.317E-04	0.000E+00	0.000E+00	3.187E-03
S	F	3.705E-03	3.005E-03	1.743E-04	0.000E+00	0.000E+00	6.885E-03
SSW	F	7.371E-03	3.722E-03	1.158E-04	0.000E+00	0.000E+00	1.121E-02
SW	F	5.331E-03	6.450E-03	5.750E-05	0.000E+00	0.000E+00	1.184E-02
WSW	F	3.609E-03	4.985E-03	1.167E-04	0.000E+00	0.000E+00	8.711E-03
W	F	1.505E-03	8.697E-04	2.899E-04	0.000E+00	0.000E+00	2.664E-03
WNW	F	8.093E-04	9.830E-04	2.316E-04	5.744E-05	0.000E+00	2.082E-03
NW	F	7.550E-04	1.440E-03	5.224E-04	0.000E+00	0.000E+00	2.725E-03
NNW	F	7.527E-04	7.526E-04	3.472E-04	0.000E+00	0.000E+00	1.853E-03
TOTAL		3.490E-02	2.639E-02	2.203E-03	5.744E-05	0.000E+00	6.356E-02

OVERALL PROBABILITY OF CALM OCCURRENCE = 3.247E-03

OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

STABILITY CLASS: G

WIND DIRECTION	WIND SPEED - MPH						TOTAL
	0-75-3	4-7	8-12	13-18	19-24	≥24	
N	3.706E-03	6.488E-03	4.114E-03	1.160E-03	2.890E-04	0.000E+00	1.576E-02
NNE	4.930E-03	7.360E-03	3.246E-03	9.920E-04	1.159E-04	0.000E+00	1.664E-02
NE	5.097E-03	9.558E-03	3.184E-03	4.642E-04	1.740E-04	0.000E+00	1.848E-02
ENE	3.187E-03	8.053E-03	3.143E-03	0.000E+00	1.151E-04	0.000E+00	1.450E-02
E	3.010E-03	7.326E-03	1.740E-03	1.735E-04	0.000E+00	0.000E+00	1.225E-02
ESE	2.722E-03	7.824E-03	3.011E-03	1.098E-03	1.158E-04	0.000E+00	1.477E-02
SE	3.600E-03	6.250E-03	3.897E-03	1.972E-03	5.795E-04	1.741E-04	1.647E-02
SSE	4.440E-03	4.635E-03	1.856E-03	6.390E-04	2.893E-04	0.000E+00	1.186E-02
S	8.279E-03	7.233E-03	1.912E-03	2.881E-04	1.167E-04	0.000E+00	1.783E-02
SSW	1.112E-02	1.344E-02	1.391E-03	2.899E-04	5.744E-05	0.000E+00	2.630E-02
SW	1.394E-02	2.221E-02	1.565E-03	3.465E-04	1.735E-04	0.000E+00	3.824E-02
WSW	1.096E-02	1.293E-02	1.438E-03	5.744E-05	0.000E+00	5.827E-05	2.544E-02
W	3.714E-03	2.674E-03	6.357E-04	3.462E-04	5.833E-05	0.000E+00	7.428E-03
WNW	2.433E-03	1.899E-03	5.237E-04	3.483E-04	0.000E+00	0.000E+00	5.204E-03
NW	2.953E-03	4.690E-03	1.229E-03	2.885E-04	1.732E-04	0.000E+00	4.334E-03
NNW	3.521E-03	6.081E-03	1.448E-03	9.868E-04	1.724E-04	0.000E+00	1.221E-02
TOTAL	8.761E-02	1.286E-01	3.433E-02	9.451E-03	2.430E-03	2.324E-04	2.627E-01

OVERALL PROBABILITY OF CALM OCCURRENCE = 1.118E-02



OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

WIND DIRECTION	STABILITY CLASS	WIND SPEED - MPH					TOTAL	
		0.75-3	4-7	8-12	13-18	19-24		24
N	TOTAL	1.761E-02	2.582E-02	2.070E-02	1.083E-02	3.124E-03	6.965E-04	7.877E-02
NNE		2.128E-02	3.063E-02	1.240E-02	6.265E-03	2.145E-03	6.393E-04	7.336E-02
NE		2.306E-02	3.626E-02	1.153E-02	3.826E-03	3.480E-04	5.833E-05	7.500E-02
ENE		1.044E-02	3.297E-02	1.044E-02	8.131E-04	1.727E-04	0.000E+00	6.284E-02
E		1.570E-02	2.939E-02	7.467E-03	2.028E-03	0.000E+00	0.000E+00	5.458E-02
ESE		1.344E-02	2.803E-02	1.129E-02	2.198E-03	2.316E-04	0.000E+00	5.519E-02
SE		1.600E-02	2.823E-02	1.241E-02	3.068E-03	6.370E-04	2.325E-04	6.059E-02
SSE		2.004E-02	2.080E-02	8.406E-03	2.433E-03	5.206E-04	5.833E-05	5.226E-02
S		2.885E-02	3.446E-02	7.248E-03	1.272E-03	1.167E-04	0.000E+00	7.194E-02
SSW		3.735E-02	3.925E-02	4.061E-03	4.631E-04	5.744E-05	0.000E+00	8.117E-02
SW		3.720E-02	5.450E-02	4.345E-03	7.530E-04	2.319E-04	0.000E+00	9.703E-02
WSW		2.971E-02	3.906E-02	5.667E-03	8.681E-04	1.158E-04	5.827E-05	7.540E-02
W		1.147E-02	9.297E-03	3.127E-03	1.215E-03	2.900E-04	1.160E-04	2.552E-02
WNW		6.203E-03	6.825E-03	2.552E-03	2.606E-03	4.058E-04	5.206E-04	1.911E-02
NW		8.006E-03	1.597E-02	5.289E-03	1.506E-03	9.267E-04	1.742E-04	3.260E-02
NNW		1.314E-02	2.047E-02	1.146E-02	9.047E-03	2.429E-03	2.310E-04	5.670E-02
TOTAL		3.183E-01	4.520E-01	1.384E-01	4.919E-02	1.175E-02	2.785E-03	9.724E-01

OVERALL PROBABILITY OF CALM OCCURRENCE = 2.051E-02

PERIOD OF RECORD: 92/ 1/ 1 THRU 92/ 6/30

NUMBER OF RECORDS IN SELECTED TIME PERIOD = 17374  
NUMBER OF OBSERVATIONS TAKEN FROM PRIMARY LOCATION = 17356  
NUMBER OF OBSERVATIONS TAKEN FROM THE NOAA TOWER = 0  
NUMBER OF OBSERVATIONS TAKEN FROM THE 50M LEVEL = 0  
NO. OF OBSERVATIONS WITH NO VALID WIND SPEED/DIR. = 10  
NO. OF OBSERVATIONS WITH OUT-OF-RANGE DELTA TEMP. = 3278  
MUST CONSERVATIVE STABILITY CATEGORY (G) ASSUMED = 3278

LOST TIME = 11.55 HRS TOTAL TIME = 4368.00 HRS

DATA AVAILABILITY = 99.74 %

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/ 30

REPORT FOR 3 RD QUARTER OF 92

STABILITY CLASS: A

WIND DIRECTION	WIND SPEED - MPH						TOTAL
	0.75-3	4-7	8-12	13-18	19-24	24	
N	23.01	48.65	13.86	3.53	0.76	0.00	89.80
NNE	24.04	63.84	24.93	7.82	0.76	0.25	121.64
NE	25.74	74.64	23.94	3.78	0.50	0.00	128.60
ENE	24.24	72.64	29.24	1.26	0.00	0.00	127.38
E	16.63	73.57	19.41	0.50	0.00	0.00	110.11
ESE	23.71	71.14	22.45	1.01	0.00	0.00	118.30
SE	26.45	71.63	18.68	2.27	0.00	0.00	119.03
SSE	27.83	60.25	18.92	1.00	0.25	0.00	108.25
S	24.97	34.84	9.33	0.50	0.00	0.00	69.64
SSW	21.71	36.91	9.07	1.51	6.00	0.00	69.21
SW	25.77	33.80	10.59	2.53	1.01	0.00	73.67
WSW	18.42	26.99	15.39	5.28	2.78	1.01	69.86
W	7.32	8.34	2.53	3.54	0.25	0.51	22.49
WNW	6.31	5.54	2.78	3.28	0.50	0.00	18.41
WW	6.83	18.69	6.05	3.02	0.25	0.00	36.84
WNW	19.39	29.89	8.61	1.81	0.00	0.60	59.90
TOTAL	324.36	731.34	235.99	42.65	7.07	1.77	1343.18

TIME DURATION OF CALMS = 0.76 HRS.

TIME IN STABILITY CLASS = 1343.94 HRS.

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 RD QUARTER OF 92

STABILITY CLASS: B

WIND DIRECTION	WIND SPEED - MFR						TOTAL
	0.75-3	4-7	8-12	13-18	19-24	24	
N	1.53	1.26	0.00	0.00	0.00	0.00	2.79
NNE	1.52	1.26	0.00	0.00	0.00	0.00	2.78
NE	1.26	1.25	0.50	0.00	0.00	0.00	3.01
ENE	1.00	0.25	0.00	0.00	0.00	0.00	1.26
E	1.01	0.00	0.00	0.00	0.00	0.00	1.01
ESE	0.75	0.50	0.00	0.00	0.00	0.00	1.26
SE	0.50	0.50	0.00	0.00	0.00	0.00	1.00
SSE	0.76	0.50	0.51	0.00	0.00	0.00	1.77
S	1.26	0.75	0.25	0.00	0.00	0.00	2.26
SSW	1.26	0.76	0.00	0.00	0.00	0.00	2.02
SW	1.52	2.26	0.25	0.00	0.00	0.00	4.03
WSW	0.25	0.25	0.00	0.00	0.00	0.00	0.51
W	1.52	0.00	0.00	0.00	0.00	0.00	1.52
WNW	1.01	0.25	0.25	0.00	0.00	0.00	1.52
NW	1.00	0.50	0.25	0.00	0.00	0.00	1.76
NNW	1.26	0.50	0.00	0.00	0.00	0.00	1.76
TOTAL	17.41	10.83	2.02	0.00	0.00	0.00	30.26

TIME DURATION OF CALMS = 0.00 HRS.

TIME IN STABILITY CLASS = 30.26 HRS.

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 RD QUARTER OF 92

STABILITY CLASS: C

WIND DIRECTION	0.75-3	4-7	WIND SPEED - MPH				TOTAL
			6-12	13-18	19-24	>24	
N	1.77	0.25	0.25	0.00	0.00	0.00	2.28
NNE	0.56	0.25	0.25	0.25	0.00	0.00	1.32
NE	0.75	1.01	0.25	0.00	0.00	0.00	2.02
ENE	0.50	0.75	0.00	0.00	0.00	0.00	1.25
E	0.51	0.75	0.00	0.00	0.00	0.00	1.26
ESE	0.51	0.25	0.00	0.00	0.00	0.00	0.76
SE	0.50	0.50	0.25	0.00	0.00	0.00	1.26
SSE	1.01	0.00	0.25	0.00	0.00	0.00	1.26
S	1.26	0.25	0.25	0.25	0.00	0.00	2.01
SSW	1.26	0.51	0.00	0.00	0.00	0.00	1.77
SW	1.26	1.01	0.00	0.00	0.00	0.00	2.27
WSW	1.01	1.01	0.00	0.25	0.00	0.00	2.27
W	0.51	0.25	0.00	0.00	0.00	0.00	0.76
WNW	0.50	0.25	0.00	0.00	0.00	0.00	0.75
NW	0.00	0.51	0.51	0.00	0.00	0.00	1.02
NNW	1.01	0.50	0.50	0.00	0.00	0.00	2.02
TOTAL	12.90	8.08	2.53	0.75	0.00	0.00	24.27

TIME DURATION OF CALMS = 0.00 HRS.

TIME IN STABILITY CLASS = 24.27 HRS.

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 RD QUARTER OF 92

STABILITY CLASS: 0

WIND DIRECTION	WIND SPEED - MPH							TOTAL
	0-7.5-3	4-7	8-12	13-18	19-24	>24		
N	6.06	3.53	1.01	0.25	0.00	0.00	0.00	10.85
NNE	4.05	4.53	2.78	0.25	0.00	0.00	0.00	11.61
NE	2.78	2.78	0.76	0.00	0.00	0.00	0.00	6.32
ENE	2.02	3.28	0.00	0.00	0.00	0.00	0.00	5.30
E	2.01	1.77	0.25	0.00	0.00	0.00	0.00	4.04
ESE	4.04	1.51	0.00	0.00	0.00	0.00	0.00	5.55
SE	2.78	2.27	0.75	0.00	0.00	0.00	0.00	5.81
SSE	3.27	1.52	0.75	0.25	0.00	0.00	0.00	5.79
S	4.54	1.78	0.50	0.25	0.00	0.00	0.00	7.07
SSW	5.04	2.77	1.01	0.00	0.00	0.00	0.00	8.83
SW	4.31	8.32	1.76	0.00	0.00	0.00	0.00	14.39
WSW	5.54	5.57	0.50	0.00	0.00	0.00	0.00	11.61
W	3.77	1.26	1.26	0.00	0.00	0.00	0.00	6.30
WNW	0.50	1.01	0.00	0.25	0.00	0.00	0.00	1.77
NW	1.25	1.77	0.50	0.00	0.00	0.00	0.00	3.53
NRW	3.29	1.27	0.50	0.00	0.00	0.00	0.00	5.06
TOTAL	55.27	44.94	12.35	1.26	0.00	0.00	0.00	113.62

TIME DURATION OF CALMS = 0.25 HRS.

TIME IN STABILITY CLASS = 114.07 HRS.

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 RD QUARTER OF 92

WIND DIRECTION	STABILITY CLASS: E	WIND SPEED - MPH						TOTAL
		0.75-3	4-7	8-12	13-18	19-24	>24	
N	2.52	6.05	2.01	0.00	0.00	0.00	10.58	
NNE	4.28	6.36	1.01	0.00	0.00	0.00	11.65	
NE	4.28	2.51	1.01	0.00	0.00	0.00	7.00	
ENE	3.53	1.51	0.00	0.00	0.00	0.00	5.04	
E	1.52	1.26	0.25	0.00	0.00	0.00	3.03	
ESE	4.28	3.53	0.00	0.00	0.00	0.00	7.82	
SE	3.61	4.80	0.50	0.00	0.00	0.00	8.91	
SSE	2.06	4.28	1.01	0.50	0.00	0.00	7.85	
S	4.29	3.80	0.75	0.00	0.00	0.00	8.84	
SSW	7.32	5.05	0.25	0.00	0.00	0.00	12.62	
SU	10.85	11.62	0.00	0.00	0.00	0.00	22.47	
WSW	5.55	7.31	1.50	0.00	0.00	0.00	14.37	
U	3.53	3.39	0.75	0.00	0.00	0.00	7.67	
WNW	1.77	3.78	0.00	0.00	0.00	0.00	5.55	
WU	2.78	3.79	0.00	0.00	0.00	0.00	6.57	
NRW	2.75	0.31	0.50	0.00	0.00	0.00	3.57	
TOTAL	64.92	69.36	9.56	0.50	0.00	0.00	144.34	

TIME DURATION OF CALMS = 0.00 HRS.

TIME IN STABILITY CLASS = 144.34 HRS.

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 RD QUARTER OF 92

STABILITY CLASS: F		WIND SPEED - MPH							TOTAL
WIND DIRECTION	0.75-3	4-7	8-12	13-18	19-24	>24			
N	4.60	5.55	0.76	0.00	0.00	0.00	0.00	11.10	
NNE	2.84	5.30	0.25	0.00	0.00	0.00	0.00	8.39	
NE	4.79	5.30	0.25	0.00	0.00	0.00	0.00	10.34	
ENE	3.78	4.03	0.00	0.00	0.00	0.00	0.00	7.81	
E	3.28	2.02	0.25	0.00	0.00	0.00	0.00	5.55	
ESE	2.78	3.78	0.00	0.00	0.00	0.00	0.00	6.55	
SE	3.79	2.78	0.00	0.00	0.00	0.00	0.00	6.57	
SSE	4.03	3.28	0.50	0.00	0.00	0.00	0.00	7.81	
S	8.31	6.61	0.75	0.00	0.00	0.00	0.00	15.68	
SSW	9.08	10.62	0.50	0.00	0.00	0.00	0.00	20.21	
SW	11.44	18.02	0.51	0.00	0.00	0.00	0.00	29.97	
WSW	5.55	9.60	0.25	0.00	0.00	0.00	0.00	15.40	
W	3.79	3.78	0.00	0.00	0.00	0.00	0.00	7.57	
WNW	2.02	2.02	0.25	0.00	0.00	0.00	0.00	4.29	
NW	3.28	4.54	0.25	0.00	0.00	0.00	0.00	8.07	
NNW	2.78	3.77	0.00	0.00	0.00	0.00	0.00	6.55	
TOTAL	76.34	91.00	4.54	0.00	0.00	0.00	0.00	171.87	

TIME DURATION OF CALMS = 0.00 HRS.

TIME IN STABILITY CLASS = 171.87 HRS.



HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 50 QUARTER OF 92

STABILITY CLASS: 5

WIND DIRECTION	WIND SPEED - MPH							TOTAL
	0.75-3	4-7	8-12	13-18	19-24	24	24	
N	3.04	6.05	0.76	0.50	0.00	0.00	0.00	10.35
NNE	2.78	8.07	1.26	0.00	0.00	0.00	0.00	12.11
NE	2.77	9.84	1.77	0.50	0.00	0.00	0.00	14.88
ENE	5.05	16.41	1.26	0.25	0.00	0.00	0.00	22.97
E	2.27	12.09	1.77	0.00	0.00	0.00	0.00	16.13
ESE	6.05	11.86	0.00	0.00	0.00	0.00	0.00	17.91
SE	5.55	7.06	0.76	0.00	0.00	0.00	0.00	13.36
SSE	6.58	16.39	1.26	0.00	0.00	0.00	0.00	26.23
S	14.86	12.87	0.25	0.00	0.00	0.00	0.00	27.98
SSW	22.69	24.72	0.00	0.25	0.00	0.00	0.00	47.66
SW	25.49	54.99	0.76	0.00	0.00	0.00	0.00	81.24
WSW	17.40	33.51	1.01	0.00	0.00	0.00	0.00	51.92
W	5.79	7.30	0.25	0.00	0.00	0.00	0.00	13.34
WNW	3.78	4.90	0.50	0.00	0.00	0.00	0.00	9.08
NW	3.52	3.01	0.25	0.25	0.00	0.00	0.00	7.04
NNW	4.03	2.02	0.00	0.00	0.00	0.00	0.00	6.06
TOTAL	133.64	230.99	11.86	1.76	0.00	0.00	0.00	378.25

TIME DURATION OF CALMS = 0.76 HRS.

TIME IN STABILITY CLASS = 379.00 HRS.

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 RD QUARTER OF 92

WIND DIRECTION	TOTAL - ALL CLASSES							TOTAL
	0.75-3	4-7	8-12	13-18	19-24	24	24	
N	42.72	71.34	18.66	4.26	0.76	0.00	0.00	137.75
NNE	40.07	69.61	30.49	6.32	0.76	0.25	0.00	169.50
NE	42.37	97.33	28.48	4.28	0.50	0.00	0.00	172.98
ENE	40.12	98.88	30.51	1.51	0.00	0.00	0.00	171.01
E	27.23	91.46	21.94	0.50	0.00	0.00	0.00	141.13
ESE	42.12	92.57	22.45	1.01	0.00	0.00	0.00	156.15
SE	43.18	89.54	20.95	2.27	0.00	0.00	0.00	155.94
SSE	47.54	66.21	23.20	1.75	0.25	0.00	0.00	158.95
S	59.47	60.91	12.10	1.01	0.00	0.00	0.00	133.49
SSW	68.37	61.35	10.83	1.77	0.00	0.00	0.00	162.51
SU	60.63	130.02	13.87	2.53	1.01	0.00	0.00	228.06
WSW	53.71	84.24	18.65	5.54	2.78	1.01	0.00	165.94
W	26.22	24.33	4.80	3.54	0.25	0.51	0.00	59.64
WNW	15.90	17.65	3.78	3.54	0.50	0.00	0.00	41.38
NW	20.67	32.81	7.81	3.26	0.25	0.00	0.00	64.83
NNW	34.51	38.27	10.32	1.81	0.00	0.00	0.00	84.91
TOTAL	684.63	1166.53	278.65	46.93	7.07	1.77	0.00	2205.97

TIME DURATION OF CALMS = 1.77 HRS.

TIME IN STABILITY CLASS = 2207.74 HRS.

LOST TIME ALL CLASSES = 0.25 HRS.

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 RD QUARTER OF 92

WIND DIRECTION	WIND SPEED - MPH							TOTAL
	0.75-3	4-7	8-12	13-18	19-24	24	24	
N	1.713E-02	3.622E-02	1.032E-02	2.624E-03	5.622E-04	0.000E+00	0.000E+00	6.685E-02
NNE	1.790E-02	4.752E-02	1.856E-02	5.821E-03	5.651E-04	1.871E-04	0.000E+00	9.055E-02
NE	1.916E-02	5.556E-02	1.782E-02	2.813E-03	3.755E-04	0.000E+00	0.000E+00	9.573E-02
ENE	1.804E-02	5.407E-02	2.177E-02	9.373E-04	0.000E+00	0.000E+00	0.000E+00	9.482E-02
E	1.238E-02	5.476E-02	1.445E-02	3.732E-04	0.000E+00	0.000E+00	0.000E+00	8.196E-02
ESE	1.765E-02	5.295E-02	1.671E-02	7.504E-04	0.000E+00	0.000E+00	0.000E+00	8.806E-02
SE	1.969E-02	5.332E-02	1.391E-02	1.693E-03	0.000E+00	0.000E+00	0.000E+00	8.661E-02
SSE	2.071E-02	4.485E-02	1.408E-02	7.456E-04	1.869E-04	0.000E+00	0.000E+00	8.058E-02
S	1.859E-02	2.592E-02	6.948E-03	3.749E-04	0.000E+00	0.000E+00	0.000E+00	5.184E-02
SSW	1.616E-02	2.748E-02	6.751E-03	1.128E-03	0.000E+00	0.000E+00	0.000E+00	5.152E-02
SW	1.918E-02	2.516E-02	7.886E-03	1.881E-03	7.516E-04	0.000E+00	0.000E+00	5.485E-02
WSW	1.371E-02	2.009E-02	1.145E-02	3.933E-03	2.069E-03	7.529E-04	0.000E+00	5.200E-02
W	5.447E-03	6.209E-03	1.683E-03	2.634E-03	1.888E-04	3.774E-04	0.000E+00	1.674E-02
WNW	4.696E-03	4.122E-03	2.068E-03	2.444E-03	3.755E-04	0.000E+00	0.000E+00	2.743E-02
NW	6.574E-03	1.391E-02	4.501E-03	2.250E-03	1.863E-04	0.000E+00	0.000E+00	4.459E-02
NNW	1.443E-02	2.225E-02	6.557E-03	1.350E-03	0.000E+00	0.000E+00	0.000E+00	4.459E-02
TOTAL	2.414E-01	5.444E-01	1.757E-01	3.175E-02	5.261E-03	1.317E-03	0.000E+00	9.998E-01

PROBABILITY OF CALM WITHIN STABILITY CLASS = 5.635E-04

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD, 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 RD QUARTER OF 92

WIND DIRECTION	0.75-3	WIND SPEED - MPH					TOTAL
		4-7	8-12	13-18	19-24	>24	
N	5.051E-02	4.159E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.210E-02
NNE	5.012E-02	4.175E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.187E-02
NE	4.162E-02	4.137E-02	1.665E-02	0.000E+00	0.000E+00	0.000E+00	9.965E-02
ENE	3.321E-02	8.364E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.157E-02
E	3.323E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.323E-02
ESE	2.493E-02	1.667E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.160E-02
SE	1.653E-02	1.654E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.306E-02
SSE	2.504E-02	1.668E-02	1.678E-02	0.000E+00	0.000E+00	0.000E+00	5.850E-02
S	4.161E-02	2.495E-02	8.300E-03	0.000E+00	0.000E+00	0.000E+00	7.486E-02
SSW	4.165E-02	2.518E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.682E-02
SW	5.013E-02	7.474E-02	8.272E-03	0.000E+00	0.000E+00	0.000E+00	1.331E-01
WSW	8.401E-03	8.401E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.680E-02
W	5.015E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.015E-02
WNW	3.344E-02	8.355E-03	8.291E-03	0.000E+00	0.000E+00	0.000E+00	5.008E-02
NW	3.319E-02	1.666E-02	8.401E-03	0.000E+00	0.000E+00	0.000E+00	5.626E-02
NRW	4.174E-02	1.658E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.832E-02
TOTAL	5.755E-01	3.578E-01	6.670E-02	0.000E+00	0.000E+00	0.000E+00	1.000E+00

PROBABILITY OF CALM WITHIN STABILITY CLASS = 0.000E+00

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 Q3 QUARTER OF 92

STABILITY CLASS: C

WIND DIRECTION	WIND SPEED - MPH							TOTAL
	0.75-3	4-7	8-12	13-16	19-24	24		
N	7.298E-02	1.035E-02	1.045E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.378E-02
NNE	2.312E-02	1.031E-02	1.046E-02	1.033E-02	0.000E+00	0.000E+00	0.000E+00	5.237E-02
NE	3.093E-02	4.167E-02	1.047E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.308E-02
ENE	2.062E-02	3.109E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.171E-02
E	2.093E-02	3.108E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.201E-02
ESE	2.093E-02	1.046E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.139E-02
SE	2.073E-02	2.075E-02	1.046E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.195E-02
SSE	4.145E-02	0.000E+00	1.034E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.175E-02
S	5.172E-02	1.047E-02	1.047E-02	1.031E-02	0.000E+00	0.000E+00	0.000E+00	8.298E-02
SSW	5.190E-02	2.093E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.263E-02
SW	5.173E-02	4.167E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.340E-02
WSW	4.143E-02	4.157E-02	0.000E+00	1.046E-02	0.000E+00	0.000E+00	0.000E+00	9.346E-02
W	2.093E-02	1.047E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.140E-02
WNW	2.063E-02	1.045E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.108E-02
WW	0.000E+00	2.091E-02	2.094E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.185E-02
NNW	4.153E-02	2.078E-02	2.077E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.308E-02
TOTAL	5.316E-01	3.330E-01	1.044E-01	3.110E-02	0.000E+00	0.000E+00	0.000E+00	1.000E+00

PROBABILITY OF CALM WITHIN STABILITY CLASS = 0.000E+00

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 RD QUARTER OF 92

WIND DIRECTION	STABILITY CLASS: 0	WIND SPEED - MPH						TOTAL
		0.75-3	4-7	8-12	13-18	19-24	24	
N	5.312E-02	3.095E-02	8.866E-03	2.194E-03	0.000E+00	0.000E+00	9.513E-02	
NNE	3.547E-02	3.974E-02	2.436E-02	2.201E-03	0.000E+00	0.000E+00	1.018E-01	
NE	2.440E-02	2.437E-02	6.648E-03	0.000E+00	0.000E+00	0.000E+00	5.543E-02	
ENE	1.774E-02	2.676E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.650E-02	
E	1.766E-02	1.551E-02	2.223E-03	0.000E+00	0.000E+00	0.000E+00	3.539E-02	
ESE	3.540E-02	1.323E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.863E-02	
SE	2.437E-02	1.991E-02	6.614E-03	0.000E+00	0.000E+00	0.000E+00	5.089E-02	
SSE	2.870E-02	1.300E-02	6.577E-03	2.192E-03	0.000E+00	0.000E+00	5.077E-02	
S	3.979E-02	1.558E-02	4.415E-03	2.223E-03	0.000E+00	0.000E+00	6.201E-02	
SSW	4.422E-02	2.431E-02	6.837E-03	0.000E+00	0.000E+00	0.000E+00	7.737E-02	
SW	3.782E-02	7.294E-02	1.542E-02	0.000E+00	0.000E+00	0.000E+00	1.262E-01	
WSW	4.854E-02	4.880E-02	4.395E-03	0.000E+00	0.000E+00	0.000E+00	1.017E-01	
W	3.307E-02	1.109E-02	1.106E-02	0.000E+00	0.000E+00	0.000E+00	5.522E-02	
WNW	4.420E-03	8.844E-03	0.000E+00	2.228E-03	0.000E+00	0.000E+00	1.549E-02	
WW	1.099E-02	1.549E-02	4.420E-03	0.000E+00	0.000E+00	0.000E+00	3.091E-02	
WNW	2.881E-02	1.112E-02	4.427E-03	0.000E+00	0.000E+00	0.000E+00	4.436E-02	
TOTAL	4.845E-01	3.940E-01	1.083E-01	1.104E-02	0.000E+00	0.000E+00	9.978E-01	

PROBABILITY OF CALM WITHIN STABILITY CLASS = 2.226E-03

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 RD QUARTER OF 92

STABILITY CLASS: E		WIND SPEED - MPH						TOTAL
WIND DIRECTION	0.75-3	4-7	8-12	13-18	19-24	>24		
H	1.745E-02	4.192E-02	1.395E-02	0.000E+00	0.000E+00	0.000E+00	7.332E-02	
NNE	2.968E-02	4.408E-02	6.984E-03	0.000E+00	0.000E+00	0.000E+00	6.075E-02	
NE	2.966E-02	1.741E-02	6.956E-03	0.000E+00	0.000E+00	0.000E+00	5.406E-02	
ENE	2.445E-02	1.046E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.490E-02	
E	1.051E-02	8.728E-03	1.759E-03	0.000E+00	0.000E+00	0.000E+00	2.100E-02	
ESE	2.967E-02	2.448E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.415E-02	
SE	2.501E-02	3.326E-02	3.466E-03	0.000E+00	0.000E+00	0.000E+00	6.174E-02	
SSE	1.428E-02	2.966E-02	6.988E-03	3.464E-03	0.000E+00	0.000E+00	5.440E-02	
S	2.973E-02	2.629E-02	5.223E-03	0.000E+00	0.000E+00	0.000E+00	6.124E-02	
SSW	5.069E-02	3.501E-02	1.742E-03	0.000E+00	0.000E+00	0.000E+00	8.744E-02	
SW	7.515E-02	8.050E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.557E-01	
WSW	3.845E-02	5.067E-02	1.042E-02	0.000E+00	0.000E+00	0.000E+00	9.954E-02	
W	2.442E-02	2.348E-02	5.225E-03	0.000E+00	0.000E+00	0.000E+00	5.313E-02	
WNW	1.228E-02	2.619E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.847E-02	
NW	1.925E-02	2.626E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.551E-02	
NNW	1.909E-02	2.132E-03	3.493E-03	0.000E+00	0.000E+00	0.000E+00	2.471E-02	
TOTAL	4.498E-01	4.805E-01	6.624E-02	3.464E-03	0.000E+00	0.000E+00	1.000E+00	

PROBABILITY OF CALM WITHIN STABILITY CLASS = 0.000E+00

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 RD QUARTER OF 92

STABILITY CLASS: F

WIND DIRECTION	WIND SPEED - MPH						TOTAL
	0.75-3	4-7	8-12	13-16	19-24	24	
N	2.791E-02	3.227E-02	4.425E-03	0.000E+00	0.000E+00	0.000E+00	6.461E-02
NNE	1.652E-02	3.083E-02	1.455E-03	0.000E+00	0.000E+00	0.000E+00	4.861E-02
NE	2.787E-02	3.082E-02	1.456E-03	0.000E+00	0.000E+00	0.000E+00	6.015E-02
ENE	2.199E-02	2.345E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.544E-02
E	1.911E-02	1.173E-02	1.479E-03	0.000E+00	0.000E+00	0.000E+00	3.233E-02
ESE	1.617E-02	2.197E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.814E-02
SE	2.205E-02	1.619E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.024E-02
SSE	2.345E-02	1.906E-02	2.909E-03	0.000E+00	0.000E+00	0.000E+00	4.542E-02
S	4.833E-02	3.849E-02	4.386E-03	0.000E+00	0.000E+00	0.000E+00	9.121E-02
SSW	5.285E-02	6.181E-02	2.935E-03	0.000E+00	0.000E+00	0.000E+00	1.176E-01
SW	6.656E-02	1.049E-01	2.946E-03	0.000E+00	0.000E+00	0.000E+00	1.744E-01
WSW	3.227E-02	5.567E-02	1.472E-03	0.000E+00	0.000E+00	0.000E+00	8.962E-02
W	2.203E-02	2.200E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.404E-02
WNW	1.175E-02	1.176E-02	1.479E-03	0.000E+00	0.000E+00	0.000E+00	2.499E-02
NW	1.910E-02	2.642E-02	1.456E-03	0.000E+00	0.000E+00	0.000E+00	4.697E-02
NNW	1.615E-02	2.195E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.810E-02
TOTAL	4.442E-01	5.295E-01	2.640E-02	0.000E+00	0.000E+00	0.000E+00	1.000E+00

PROBABILITY OF CALM WITHIN STABILITY CLASS = 0.000E+00



PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 RD QUARTER OF 92

STABILITY CLASS: B

WIND SPEED - MPH

WIND DIRECTION	0.75-3	4-7	8-12	13-18	19-24	24	TOTAL
N	6.01E-03	1.597E-02	2.001E-03	1.331E-03	0.000E+00	0.000E+00	2.732E-02
NNE	7.336E-03	2.128E-02	3.337E-03	0.000E+00	0.000E+00	0.000E+00	3.196E-02
NE	7.300E-03	2.597E-02	4.671E-03	1.330E-03	0.000E+00	0.000E+00	3.927E-02
ENE	1.332E-02	4.330E-02	3.326E-03	6.597E-04	0.000E+00	0.000E+00	6.060E-02
E	5.984E-03	3.192E-02	4.662E-03	0.000E+00	0.000E+00	0.000E+00	4.256E-02
ESE	1.598E-02	3.129E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.726E-02
SE	1.464E-02	1.862E-02	2.001E-03	0.000E+00	0.000E+00	0.000E+00	3.526E-02
SSE	2.265E-02	4.324E-02	3.321E-03	0.000E+00	0.000E+00	0.000E+00	6.921E-02
S	3.920E-02	3.397E-02	6.597E-04	0.000E+00	0.000E+00	0.000E+00	7.384E-02
SSW	5.988E-02	6.522E-02	0.000E+00	6.634E-04	0.000E+00	0.000E+00	1.258E-01
SW	6.726E-02	1.451E-01	2.001E-03	0.000E+00	0.000E+00	0.000E+00	2.144E-01
WSW	4.593E-02	8.843E-02	2.662E-03	0.000E+00	0.000E+00	0.000E+00	1.370E-01
W	1.528E-02	1.926E-02	6.685E-04	0.000E+00	0.000E+00	0.000E+00	3.521E-02
WNW	9.978E-03	1.266E-02	1.329E-03	0.000E+00	0.000E+00	0.000E+00	2.396E-02
NW	9.296E-03	7.954E-03	6.619E-04	6.700E-04	0.000E+00	0.000E+00	1.658E-02
NNW	1.064E-02	5.342E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.599E-02
TOTAL	3.527E-01	6.096E-01	3.129E-02	4.654E-03	0.000E+00	0.000E+00	9.982E-01

PROBABILITY OF CALM WITHIN STABILITY CLASS = 1.999E-03

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 RD QUARTER OF 92

WIND DIRECTION	STABILITY CLASS:	TOTAL	WIND SPEED - MPH							TOTAL
			0-7-3	4-7	8-12	13-18	19-24	>24		
N	1-936E-02	3.233E-02	8.455E-03	1.939E-03	3.423E-04	0.000E+00	0.000E+00	6.242E-02		
NNE	1.816E-02	4.061E-02	1.382E-02	3.771E-03	3.440E-04	1.139E-04	1.139E-04	7.681E-02		
NE	1.920E-02	4.410E-02	1.291E-02	1.941E-03	2.286E-04	0.000E+00	0.000E+00	7.838E-02		
ENE	1.818E-02	4.481E-02	1.382E-02	6.839E-04	0.000E+00	0.000E+00	0.000E+00	7.749E-02		
E	1.234E-02	4.145E-02	9.941E-03	2.272E-04	0.000E+00	0.000E+00	0.000E+00	6.395E-02		
ESE	1.909E-02	4.195E-02	1.017E-02	4.568E-04	0.000E+00	0.000E+00	0.000E+00	7.167E-02		
SE	1.957E-02	4.058E-02	9.494E-03	1.031E-03	0.000E+00	0.000E+00	0.000E+00	7.067E-02		
SSE	2.154E-02	3.907E-02	1.051E-02	7.938E-04	1.138E-04	0.000E+00	0.000E+00	7.793E-02		
S	2.695E-02	2.760E-02	5.484E-03	4.565E-04	0.000E+00	0.000E+00	0.000E+00	6.049E-02		
SSW	3.098E-02	3.686E-02	4.909E-03	6.004E-04	0.000E+00	0.000E+00	0.000E+00	7.355E-02		
SW	3.654E-02	5.892E-02	6.284E-03	1.145E-03	4.576E-04	0.000E+00	0.000E+00	1.033E-01		
WSW	2.434E-02	3.817E-02	6.453E-03	2.510E-03	1.259E-03	4.563E-04	4.563E-04	7.519E-02		
W	1.188E-02	1.102E-02	2.174E-03	1.603E-03	1.149E-04	2.297E-04	2.297E-04	2.793E-02		
WNW	7.204E-03	7.999E-03	1.715E-03	1.603E-03	2.286E-04	0.000E+00	0.000E+00	1.875E-02		
NW	9.368E-03	1.487E-02	3.541E-03	1.465E-03	1.134E-04	0.000E+00	0.000E+00	2.938E-02		
NNW	1.564E-02	1.734E-02	4.677E-03	6.216E-04	0.000E+00	0.000E+00	0.000E+00	3.848E-02		
TOTAL	3.103E-01	5.377E-01	1.264E-01	2.127E-02	3.203E-03	8.019E-04	8.019E-04	9.996E-01		

PROBABILITY OF CALM WITHIN STABILITY CLASS = 8.013E-04

OVERALL PROBABILITY OF CONDICTION OCCURRENCE

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 RD QUARTER OF 92

STABILITY CLASS: A		WIND SPEED - MPH					TOTAL
WIND DIRECTION	0.75-3	4-7	8-12	13-16	19-24	24	TOTAL
N	1.043E-02	2.205E-02	6.281E-03	1.597E-03	3.423E-04	0.000E+00	4.069E-02
NNE	1.009E-02	2.893E-02	1.130E-02	3.543E-03	3.440E-04	1.139E-04	5.512E-02
NE	1.167E-02	3.382E-02	1.085E-02	1.713E-03	2.266E-04	0.000E+00	5.828E-02
ENE	1.098E-02	3.292E-02	1.325E-02	5.706E-04	0.000E+00	0.000E+00	5.772E-02
E	7.536E-03	3.334E-02	8.795E-03	2.272E-04	0.000E+00	0.000E+00	4.990E-02
ESE	1.074E-02	3.224E-02	1.017E-02	4.568E-04	0.000E+00	0.000E+00	5.361E-02
SE	1.199E-02	3.246E-02	8.467E-03	1.031E-03	0.000E+00	0.000E+00	5.394E-02
SSE	1.261E-02	2.730E-02	8.574E-03	4.539E-04	1.138E-04	0.000E+00	4.955E-02
S	1.131E-02	1.579E-02	4.230E-03	2.282E-04	0.000E+00	0.000E+00	3.156E-02
SSW	9.640E-03	1.673E-02	4.110E-03	6.865E-04	0.000E+00	0.000E+00	3.136E-02
SW	1.168E-02	1.531E-02	4.801E-03	1.145E-03	4.576E-04	0.000E+00	3.339E-02
WSW	8.345E-03	1.223E-02	6.972E-03	2.395E-03	1.259E-03	4.583E-04	3.166E-02
W	3.316E-03	3.780E-03	1.146E-03	1.603E-03	1.149E-04	2.297E-04	1.019E-02
WNW	2.659E-03	2.509E-03	1.259E-03	1.488E-03	2.286E-04	0.000E+00	6.343E-03
NW	4.002E-03	8.470E-03	2.740E-03	1.370E-03	1.134E-04	0.000E+00	1.670E-02
NNW	8.787E-03	1.354E-02	3.951E-03	8.218E-04	0.000E+00	0.000E+00	2.714E-02
TOTAL	1.470E-01	3.314E-01	1.069E-01	1.933E-02	3.203E-03	8.019E-04	6.087E-01

OVERALL PROBABILITY OF CALM OCCURRENCE = 3.436E-04

OVERALL PROBABILITY OF CALM OCCURRENCE

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/ 30

REPORT FOR 3 RD QUARTER OF 92

WIND DIRECTION	0.75-3	WIND SPEED - MPH					TOTAL
		4-7	8-12	13-18	19-24	≥24	
N	5.924E-04	5.702E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.263E-03
NNE	6.871E-04	5.724E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.260E-03
NE	5.706E-04	5.672E-04	2.283E-04	0.000E+00	0.000E+00	0.000E+00	1.366E-03
ENE	4.553E-04	1.147E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.700E-04
E	4.555E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.555E-04
ESE	3.417E-04	2.286E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.703E-04
SE	2.266E-04	2.267E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.533E-04
SSE	3.433E-04	2.287E-04	2.301E-04	0.000E+00	0.000E+00	0.000E+00	8.021E-04
S	5.705E-04	3.421E-04	1.138E-04	0.000E+00	0.000E+00	0.000E+00	1.026E-03
SSW	5.710E-04	3.451E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.161E-04
SW	6.873E-04	1.025E-03	1.134E-04	0.000E+00	0.000E+00	0.000E+00	1.825E-03
WSW	1.152E-04	1.152E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.304E-04
W	6.875E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.875E-04
WNW	4.584E-04	1.145E-04	1.137E-04	0.000E+00	0.000E+00	0.000E+00	6.666E-04
W	4.550E-04	2.285E-04	1.152E-04	0.000E+00	0.000E+00	0.000E+00	7.987E-04
WNW	5.722E-04	2.273E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.996E-04
TOTAL	7.890E-03	4.906E-03	9.145E-04	0.000E+00	0.000E+00	0.000E+00	1.371E-02

OVERALL PROBABILITY OF CALM OCCURRENCE = 0.000E+00

OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 RD QUARTER OF 92

WIND DIRECTION	C	WIND SPEED - MPH				TOTAL
		0-7	8-12	13-18	19-24	
N	0.005E-04	1.138E-04	1.149E-04	0.000E+00	0.000E+00	1.031E-03
NNE	2.543E-04	1.134E-04	1.150E-04	1.135E-04	0.000E+00	5.963E-04
NE	3.401E-04	4.582E-04	1.152E-04	0.000E+00	0.000E+00	9.135E-04
ENE	2.267E-04	3.419E-04	0.000E+00	0.000E+00	0.000E+00	5.686E-04
E	2.301E-04	3.417E-04	0.000E+00	0.000E+00	0.000E+00	5.719E-04
ESE	2.301E-04	1.150E-04	0.000E+00	0.000E+00	0.000E+00	3.451E-04
SE	2.280E-04	2.282E-04	1.153E-04	0.000E+00	0.000E+00	5.712E-04
SSE	4.538E-04	0.000E+00	1.137E-04	0.000E+00	0.000E+00	5.695E-04
S	5.687E-04	1.152E-04	1.152E-04	1.134E-04	0.000E+00	9.125E-04
SSW	5.707E-04	2.301E-04	0.000E+00	0.000E+00	0.000E+00	8.008E-04
SW	5.688E-04	4.582E-04	0.000E+00	0.000E+00	0.000E+00	1.027E-03
WSW	4.555E-04	4.570E-04	0.000E+00	1.150E-04	0.000E+00	1.028E-03
W	2.301E-04	1.152E-04	0.000E+00	0.000E+00	0.000E+00	3.453E-04
WNW	2.268E-04	1.149E-04	0.000E+00	0.000E+00	0.000E+00	3.417E-04
NW	0.000E+00	2.300E-04	2.302E-04	0.000E+00	0.000E+00	4.602E-04
NNW	4.567E-04	2.283E-04	2.283E-04	0.000E+00	0.000E+00	9.135E-04
TOTAL	5.845E-03	3.661E-03	1.148E-03	3.420E-04	0.000E+00	1.100E-02

OVERALL PROBABILITY OF CALM OCCURRENCE = 0.000E+00

OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 RD QUARTER OF 92

STABILITY CLASS: B		WIND SPEED - MPH						TOTAL
WIND DIRECTION	0.75-3	4-7	8-12	13-18	19-24	24	TOTAL	
N	2.746E-03	1.600E-03	4.583E-04	1.134E-04	0.000E+00	0.000E+00	4.917E-03	
NNE	1.833E-03	2.054E-03	1.259E-03	1.138E-04	0.000E+00	0.000E+00	5.261E-03	
NE	1.262E-03	1.260E-03	3.436E-04	0.000E+00	0.000E+00	0.000E+00	2.865E-03	
ENE	9.170E-04	1.487E-03	0.300E+00	0.000E+00	0.000E+00	0.000E+00	2.404E-03	
E	9.130E-04	8.017E-04	1.149E-04	0.000E+00	0.000E+00	0.000E+00	1.830E-03	
ESE	1.830E-03	6.840E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.514E-03	
SE	1.260E-03	1.029E-03	3.419E-04	0.000E+00	0.000E+00	0.000E+00	2.631E-03	
SSE	1.484E-03	6.875E-04	3.400E-04	1.133E-04	0.000E+00	0.000E+00	2.624E-03	
S	2.057E-03	8.056E-04	2.282E-04	1.149E-04	0.000E+00	0.000E+00	3.205E-03	
SSW	2.286E-03	1.257E-03	4.568E-04	0.000E+00	0.000E+00	0.000E+00	3.999E-03	
SW	1.955E-03	3.771E-03	7.969E-04	0.000E+00	0.000E+00	0.000E+00	6.523E-03	
WSW	2.509E-03	2.523E-03	2.272E-04	0.000E+00	0.000E+00	0.000E+00	5.259E-03	
W	1.710E-03	5.731E-04	5.717E-04	0.000E+00	0.000E+00	0.000E+00	2.654E-03	
WNW	2.285E-04	4.572E-04	0.000E+00	1.152E-04	0.000E+00	0.000E+00	8.008E-04	
WW	5.683E-04	9.008E-04	2.265E-04	0.000E+00	0.000E+00	0.000E+00	1.598E-03	
NNW	1.489E-03	5.750E-04	2.288E-04	0.000E+00	0.000E+00	0.000E+00	2.293E-03	
TOTAL	2.505E-02	2.036E-02	5.596E-03	5.706E-04	0.000E+00	0.000E+00	5.158E-02	

OVERALL PROBABILITY OF CALM OCCURRENCE = 1.150E-04

OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 RD QUARTER OF 92

WIND DIRECTION	0.75-3	4-7	WIND SPEED - MPH			19-24	24	TOTAL
			8-12	13-18	19-24			
N	1.142E-03	2.742E-03	9.12E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.786E-03
NNE	1.941E-03	2.883E-03	4.568E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.281E-03
NE	1.940E-03	1.139E-03	4.572E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.536E-03
ENE	1.599E-03	6.840E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.283E-03
E	6.874E-04	5.708E-04	1.150E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.373E-03
ESE	1.941E-03	1.601E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.542E-03
SE	1.636E-03	2.176E-03	2.267E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.038E-03
SSE	9.340E-04	1.940E-03	4.571E-04	2.266E-04	0.000E+00	0.000E+00	0.000E+00	3.558E-03
S	1.944E-03	1.720E-03	3.416E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.006E-03
SSW	3.316E-03	2.290E-03	1.139E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.719E-03
SW	4.915E-03	5.265E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.018E-02
WSW	2.514E-03	3.314E-03	6.816E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.510E-03
W	1.597E-03	1.536E-03	3.417E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.475E-03
WNW	8.030E-04	1.713E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.516E-03
NW	1.259E-03	1.717E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.976E-03
NNW	1.248E-03	1.395E-04	2.285E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.616E-03
TOTAL	2.942E-02	3.143E-02	4.332E-03	2.266E-04	0.000E+00	0.000E+00	0.000E+00	6.541E-02

OVERALL PROBABILITY OF CALM OCCURRENCE = 0.000E+00

OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 RD QUARTER OF 92

WIND DIRECTION	STABILITY CLASS: F	WIND SPEED - MPH						TOTAL
		0-75-3	4-7	8-12	13-18	19-24	24	
N	2.174E-03	2.513E-03	3.444E-04	0.000E+00	0.000E+00	0.000E+00	5.032E-03	
NNE	1.287E-03	2.401E-03	1.133E-04	0.000E+00	0.000E+00	0.000E+00	3.801E-03	
NE	2.171E-03	2.400E-03	1.135E-04	0.000E+00	0.000E+00	0.000E+00	4.684E-03	
ENE	1.713E-03	1.826E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.539E-03	
E	1.488E-03	9.135E-04	1.152E-04	0.000E+00	0.000E+00	0.000E+00	2.517E-03	
ESE	1.259E-03	1.711E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.970E-03	
SE	1.717E-03	1.261E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.978E-03	
SSE	1.826E-03	1.484E-03	2.266E-04	0.000E+00	0.000E+00	0.000E+00	3.537E-03	
S	3.764E-03	2.997E-03	3.416E-04	0.000E+00	0.000E+00	0.000E+00	7.103E-03	
SSW	4.116E-03	4.814E-03	2.286E-04	0.000E+00	0.000E+00	0.000E+00	9.158E-03	
SW	5.186E-03	8.167E-03	2.295E-04	0.000E+00	0.000E+00	0.000E+00	1.358E-02	
WSW	2.514E-03	4.351E-03	1.147E-04	0.000E+00	0.000E+00	0.000E+00	6.979E-03	
W	1.716E-03	1.714E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.430E-03	
WNW	9.154E-04	9.157E-04	1.152E-04	0.000E+00	0.000E+00	0.000E+00	1.946E-03	
NW	1.488E-03	2.057E-03	1.134E-04	0.000E+00	0.000E+00	0.000E+00	3.658E-03	
NNW	1.258E-03	1.710E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.967E-03	
TOTAL	3.459E-02	4.124E-02	2.056E-03	0.000E+00	0.000E+00	0.000E+00	7.788E-02	

OVERALL PROBABILITY OF CALM OCCURRENCE = 0.000E+00



OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 RD QUARTER OF 92

STABILITY CLASS: 6		WIND SPEED - MPH					TOTAL
WIND DIRECTION	0.75-3	4-7	8-12	13-18	19-24	>24	
N	1.375E-03	2.743E-03	3.436E-04	2.286E-04	0.000E+00	0.000E+00	4.690E-03
NNE	1.260E-03	3.655E-03	5.730E-04	0.000E+00	0.000E+00	0.000E+00	5.488E-03
NL	1.253E-03	4.459E-03	8.021E-04	2.283E-04	0.000E+00	0.000E+00	6.742E-03
ENE	2.286E-03	7.456E-03	5.711E-04	1.133E-04	0.000E+00	0.000E+00	1.041E-02
E	1.028E-03	5.480E-03	8.006E-04	0.000E+00	0.000E+00	0.000E+00	7.509E-03
ESE	2.740E-03	5.372E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.116E-03
SE	2.513E-03	3.197E-03	3.436E-04	0.000E+00	0.000E+00	0.000E+00	6.054E-03
SSE	3.889E-03	7.425E-03	5.703E-04	0.000E+00	0.000E+00	0.000E+00	1.188E-02
S	6.732E-03	5.834E-03	1.133E-04	0.000E+00	0.000E+00	0.000E+00	1.268E-02
SSW	1.028E-02	1.120E-02	0.000E+00	1.139E-04	0.000E+00	0.000E+00	2.166E-02
SW	1.155E-02	2.492E-02	3.436E-04	0.000E+00	0.000E+00	0.000E+00	3.681E-02
WSW	7.886E-03	1.519E-02	4.572E-04	0.000E+00	0.000E+00	0.000E+00	2.353E-02
W	2.623E-03	3.507E-03	1.146E-04	0.000E+00	0.000E+00	0.000E+00	6.045E-03
WNW	1.713E-03	2.174E-03	2.267E-04	0.000E+00	0.000E+00	0.000E+00	4.114E-03
NW	1.596E-03	1.366E-03	1.137E-04	1.150E-04	0.000E+00	0.000E+00	3.191E-03
NW	1.828E-03	9.173E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.745E-03
TOTAL	6.056E-02	1.047E-01	5.374E-03	7.992E-04	0.000E+00	0.000E+00	1.714E-01

OVERALL PROBABILITY OF CALM OCCURRENCE = 3.433E-04

OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

REPORT FOR 3 RD QUARTER OF 92

WIND DIRECTION	STABILITY CLASS:	TOTAL	WIND SPEED - MPH					TOTAL
			0.75-3	4-7	8-12	13-18	19-24	
N		1.936E-02	3.233E-02	8.455E-03	1.939E-03	3.423E-04	0.000E+00	6.242E-02
NNE		1.816E-02	4.061E-02	1.362E-02	3.771E-03	3.440E-04	1.139E-04	7.681E-02
NE		1.920E-02	4.410E-02	1.291E-02	1.941E-03	2.286E-04	0.000E+00	7.838E-02
ENE		1.818E-02	4.481E-02	1.382E-02	6.839E-04	0.000E+00	0.000E+00	7.749E-02
E		1.234E-02	4.145E-02	9.941E-03	2.272E-04	0.000E+00	0.000E+00	6.395E-02
ESE		1.909E-02	4.195E-02	1.017E-02	4.588E-04	0.000E+00	0.000E+00	7.167E-02
SE		1.957E-02	4.058E-02	9.494E-03	1.031E-03	0.000E+00	0.000E+00	7.067E-02
SSE		2.154E-02	3.907E-02	1.051E-02	7.938E-04	1.138E-04	0.000E+00	7.203E-02
S		2.695E-02	2.760E-02	5.484E-03	4.565E-04	0.000E+00	0.000E+00	6.049E-02
SSW		3.098E-02	3.686E-02	4.909E-03	8.004E-04	0.000E+00	0.000E+00	7.355E-02
SU		3.654E-02	5.892E-02	6.284E-03	1.145E-03	4.576E-04	0.000E+00	1.033E-01
WSW		2.434E-02	3.817E-02	8.453E-03	2.510E-03	1.259E-03	4.583E-04	7.519E-02
W		1.188E-02	1.102E-02	2.174E-03	1.603E-03	1.149E-04	2.297E-04	2.703E-02
WNW		7.204E-03	7.999E-03	1.715E-03	1.603E-03	2.286E-04	0.000E+00	1.875E-02
NW		9.368E-03	1.487E-02	3.541E-03	1.485E-03	1.134E-04	0.000E+00	2.938E-02
NNW		1.564E-02	1.734E-02	4.677E-03	8.218E-04	0.000E+00	0.000E+00	3.848E-02
TOTAL		3.103E-01	5.377E-01	1.264E-01	2.127E-02	3.203E-03	8.019E-04	9.996E-01

OVERALL PROBABILITY OF CALM OCCURRENCE = 8.013E-04

PERIOD OF RECORD: 92/ 7/ 1 THRU 92/ 9/30

NUMBER OF RECORDS IN SELECIED TIME PERIOD = 8816  
NUMBER OF OBSERVATIONS TAKEN FROM PRIMARY LOCATION = 8815  
NUMBER OF OBSERVATIONS TAKEN FROM THE NOAA TOWER = 0  
NUMBER OF OBSERVATIONS TAKEN FROM THE 50M LEVEL = 0  
NO. OF OBSERVATIONS WITH NO VALID WIND SPEED/DIR. = 1  
NO. OF OBSERVATIONS WITH OUT-OF-RANGE DELTA TEMP., =  
MOST CONSERVATIVE STABILITY CATEGGRY (G) ASSUMED = 401

LOST TIME = 0.25 HRS TOTAL TIME = 2207.99 HRS

DATA AVAILABILITY = 99.99 %

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/10/ 1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

STABILITY CLASS: A

WIND DIRECTION	WIND SPEED - MPH								TOTAL
	0.75-3	4-7	8-12	13-16	17-19	20-24	25-30	31-40	
N	3.53	3.78	4.77	1.51	2.53	2.53	2.01	18.13	
NNE	6.50	7.31	2.26	2.53	4.79	0.25	0.25	25.44	
NE	9.58	19.17	3.54	2.77	0.25	0.00	0.00	35.32	
ENE	6.07	31.00	7.82	1.26	0.00	0.00	0.00	48.16	
E	8.08	32.26	8.33	0.76	0.00	0.00	0.00	49.42	
ESE	10.59	31.01	11.34	0.00	0.00	0.00	0.00	52.94	
SE	11.34	19.46	9.33	1.77	0.00	0.00	0.00	41.89	
SSE	13.61	21.93	10.83	0.00	0.00	0.00	0.00	46.38	
S	17.66	21.98	7.33	0.00	0.00	0.00	0.00	46.97	
SSW	15.13	22.66	1.02	0.00	0.00	0.00	0.00	38.80	
SW	12.35	17.65	1.25	0.00	0.00	0.00	0.00	31.25	
WSW	10.07	5.02	1.26	0.00	0.00	0.00	0.00	16.35	
W	5.31	2.78	0.25	0.00	0.25	0.50	0.50	9.10	
WNW	1.51	0.75	0.25	0.00	0.76	3.52	6.80		
NW	3.27	1.76	0.00	0.00	0.00	0.00	5.03		
NNW	1.77	2.77	2.27	1.26	1.01	0.00	9.08		
TOTAL	140.15	241.31	71.85	11.85	9.59	6.29	481.05		

TIME DURATION OF CALMS = 0.25 HRS.

TIME IN STABILITY CLASS = 481.30 HRS.

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/10/ 1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

STABILITY CLASS: B

WIND DIRECTION	WIND SPEED - MPH								TOTAL
	0.75-3	4-7	8-12	13-18	19-24	24	24	24	
N	0.50	0.50	0.00	0.51	1.26	0.00	0.00	0.00	2.77
NNE	0.76	0.26	0.50	0.25	0.00	0.00	0.00	0.00	1.77
NE	0.76	1.52	0.75	0.00	0.00	0.00	0.00	0.00	3.03
ENE	0.50	2.02	1.01	0.00	0.00	0.00	0.00	0.00	3.53
E	0.75	2.01	1.00	0.00	0.00	0.00	0.00	0.00	3.77
ESE	1.01	1.00	1.00	0.25	0.00	0.00	0.00	0.00	3.27
SE	0.25	0.00	0.25	0.50	0.00	0.00	0.00	0.00	1.01
SSE	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.50
S	0.75	0.50	0.00	0.00	0.00	0.00	0.00	0.00	1.26
SSW	0.50	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.75
SW	1.02	1.51	0.00	0.00	0.00	0.00	0.00	0.00	2.53
WSW	0.25	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.76
W	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
WNW	0.00	0.00	0.25	0.00	0.25	0.00	0.00	0.00	0.50
NW	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.25
NNW	0.25	0.00	0.50	0.25	0.00	0.00	0.00	0.00	1.01
TOTAL	7.57	10.33	5.79	1.77	1.51	0.00	0.00	0.00	26.96

TIME DURATION OF CALMS = 0.00 HRS.

TIME IN STABILITY CLASS = 26.96 HRS.

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/10/ 1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

STABILITY CLASS: C

WIND DIRECTION	WIND SPEED - MPH							TOTAL
	0.75-3	4-7	8-12	13-18	19-24	24	24	
N	0.25	0.00	0.25	0.50	1.00	0.00	0.00	2.01
NNE	0.76	1.52	0.25	0.76	0.00	0.00	0.00	3.28
NE	0.50	1.01	0.51	0.00	0.25	0.00	0.00	2.27
ENE	0.25	2.78	0.75	0.00	0.00	0.00	0.00	3.79
E	0.50	2.53	0.76	0.00	0.00	0.00	0.00	3.79
ESE	0.25	0.51	0.76	0.25	0.00	0.00	0.00	1.77
SE	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.51
SSE	0.25	1.01	0.00	0.00	0.00	0.00	0.00	1.26
S	1.26	0.76	0.50	0.00	0.00	0.00	0.00	2.52
SSW	1.02	0.50	0.00	0.00	0.00	0.00	0.00	1.52
SW	1.01	0.25	0.00	0.00	0.00	0.00	0.00	1.26
WSW	0.50	0.75	0.25	0.00	0.00	0.00	0.00	1.51
W	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.50
WNW	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.25
W	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.51
WNW	0.25	0.25	0.25	0.00	0.00	0.00	0.00	0.75
TOTAL	7.82	12.13	4.28	2.02	1.25	0.00	0.00	27.51

TIME DURATION OF CALMS = 0.00 HRS.

TIME IN STABILITY CLASS = 27.51 HRS.

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/10/1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

STABILITY CLASS: 0

WIND DIRECTION	0.75-3	4-7	8-12	13-16	19-24	24	TOTAL
N	5.28	5.81	3.54	4.53	1.51	0.75	21.44
NNE	6.06	12.10	4.03	3.53	2.27	1.26	29.24
N E	7.06	11.75	4.03	0.25	0.00	0.00	23.09
E NE	6.82	17.64	5.55	0.50	0.00	0.00	30.50
E	4.79	11.85	1.26	0.00	0.00	0.00	17.90
ESE	3.03	4.04	1.26	0.25	0.00	0.00	8.58
SE	1.77	1.76	1.26	0.00	0.00	0.00	4.79
SSE	2.01	1.27	0.25	0.00	0.00	0.00	3.53
S	2.01	2.62	0.51	0.25	0.00	0.00	4.80
SSW	2.53	3.77	0.00	0.00	0.00	0.00	6.30
SW	2.02	1.76	0.25	0.00	0.00	0.00	4.03
WSW	5.04	2.27	0.25	0.00	0.00	0.00	7.56
W	3.28	0.00	0.51	0.00	0.00	0.00	3.78
WNW	0.76	0.00	0.00	0.50	0.00	0.00	1.27
NW	1.51	1.00	0.00	0.00	0.00	0.00	2.51
NNW	2.26	2.01	1.51	0.50	0.00	0.00	6.28
TOTAL	56.22	79.04	24.21	10.33	3.79	2.01	175.60

TIME DURATION OF CALMS = 1.25 HRS.

TIME IN STABILITY CLASS = 176.86 HRS.

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/10/1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

WIND DIRECTION	STABILITY CLASS: E	WIND SPEED - MPH							TOTAL
		0.75-3	4-7	8-12	13-18	19-24	>24		
N	9.83	14.60	10.08	10.33	2.26	0.00	47.10		
NNE	12.37	24.23	24.18	24.90	4.30	0.27	90.25		
NE	12.36	22.43	11.86	2.02	0.75	0.00	49.42		
ENE	8.12	19.48	3.77	0.25	0.25	0.00	31.88		
E	7.81	7.31	2.27	0.00	0.00	0.00	17.40		
ESE	7.06	6.80	0.76	0.00	0.00	0.00	14.62		
SE	5.80	4.03	1.25	0.00	0.00	0.00	11.08		
SSE	5.55	3.28	1.00	1.00	0.00	0.00	10.83		
S	3.28	5.30	1.26	0.25	0.00	0.00	10.09		
SSW	10.69	7.55	0.50	0.00	0.00	0.00	18.74		
SW	8.17	10.10	1.26	0.00	0.00	0.00	19.53		
WSW	12.13	5.28	1.01	0.76	0.76	0.00	19.94		
W	4.29	1.52	0.75	1.27	0.51	0.00	8.34		
WNW	2.76	1.51	0.50	0.50	0.00	0.25	5.54		
W	3.53	2.01	0.00	0.00	0.00	0.00	5.54		
WNW	6.82	6.81	2.77	1.51	0.50	0.00	18.41		
TOTAL	120.56	142.23	63.24	42.81	9.33	0.52	378.70		

TIME DURATION OF CALMS = 3.03 HRS.

TIME IN STABILITY CLASS = 361.72 HRS.



HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/10/1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

STABILITY CLASS: F		WIND SPEED - MPH						TOTAL
WIND DIRECTION	0.75-3	4-7	8-12	13-18	19-24	24		
N	9.83	10.24	3.53	1.51	0.00	0.00	25.11	
NNE	11.67	8.83	2.53	0.25	0.00	0.00	23.28	
NE	6.81	10.90	1.80	0.25	0.00	0.00	19.77	
ENE	8.32	8.81	0.50	0.25	0.00	0.00	17.89	
E	5.29	3.28	1.01	0.00	0.00	0.00	9.58	
ESE	2.76	5.10	0.00	0.00	0.00	0.00	7.87	
SE	4.79	4.79	0.50	0.00	0.00	0.00	10.08	
SSE	7.07	5.80	2.28	0.00	0.25	0.00	15.40	
S	6.31	5.05	0.76	0.25	0.00	0.00	12.37	
SSW	10.83	8.07	0.25	0.00	0.00	0.00	19.15	
SW	9.32	15.88	1.01	0.25	0.00	0.00	26.46	
WSW	11.40	11.61	2.52	1.77	1.51	0.00	28.81	
W	5.58	2.52	1.51	0.75	0.00	0.00	10.36	
WNW	5.60	2.26	0.25	0.75	0.25	0.25	9.37	
W	4.55	2.02	0.50	0.25	0.00	0.75	8.07	
WNW	10.08	2.77	0.51	0.76	0.00	0.00	14.12	
TOTAL	120.22	107.93	19.46	7.07	2.01	1.01	257.70	

TIME DURATION OF CALMS = 0.76 HRS.

TIME IN STABILITY CLASS = 258.45 HRS.

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/10/1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

STABILITY CLASS: 6

WIND DIRECTION	WIND SPEED - MPH							TOTAL
	0.75-3	4-7	8-12	13-18	19-24	24	24	
N	23.85	14.80	1.26	0.00	0.00	0.00	0.00	39.91
NNE	22.53	17.68	0.76	0.25	0.00	0.00	0.00	41.22
NE	24.03	16.39	0.50	0.00	0.00	0.00	0.00	40.92
NNE	19.71	14.13	0.76	0.00	0.00	0.00	0.00	34.60
E	11.62	7.30	0.25	0.00	0.00	0.00	0.00	19.17
ESE	9.59	5.03	0.00	0.00	0.00	0.00	0.00	14.62
SE	11.34	4.30	1.01	0.00	0.00	0.00	0.00	16.65
SSE	15.65	10.18	1.51	0.00	0.00	0.25	0.25	27.59
S	25.06	20.70	1.77	0.00	0.00	0.00	0.25	47.78
SSW	43.69	43.42	1.26	0.00	0.00	0.00	0.00	86.37
SW	43.38	79.40	1.26	0.00	0.25	0.00	0.00	124.29
WSW	36.84	69.48	3.54	2.52	0.76	0.00	0.00	115.14
W	17.39	15.43	1.51	0.50	0.25	0.00	0.00	35.09
WNW	19.90	17.47	2.01	0.00	0.00	0.00	0.00	39.37
W	36.32	14.62	0.00	0.51	0.00	0.00	0.00	51.46
WNW	42.90	15.93	0.00	0.25	0.00	0.00	0.00	59.08
TOTAL	405.80	366.27	17.39	4.04	1.26	0.50	0.50	795.26

TIME DURATION OF CALMS = 2.52 HRS.

TIME IN STABILITY CLASS = 797.79 HRS.

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD: 92/10/ 1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

WIND DIRECTION	TOTAL - ALL CLASSES								TOTAL
	0.75-3	4-7	8-12	13-18	19-24	24	24	24	
N	53.08	49.74	23.43	18.90	8.57	2.77	156.48		
NNE	62.43	71.92	34.52	32.47	11.37	1.78	214.48		
NW	61.09	83.18	22.99	5.30	1.26	0.00	173.81		
E	51.80	95.87	20.17	2.27	0.25	0.00	170.35		
E	38.84	66.54	14.89	0.76	0.00	0.00	121.03		
ESE	34.29	53.50	15.12	0.75	0.00	0.00	103.67		
SE	35.29	34.35	13.60	2.77	0.00	0.00	86.01		
SSE	44.14	43.47	16.38	1.00	0.25	0.25	105.49		
S	56.33	56.31	12.13	0.76	0.00	0.25	125.78		
SSW	84.38	86.22	3.03	0.00	0.00	0.00	173.63		
SW	77.26	126.55	5.03	0.25	0.25	0.00	207.36		
WSW	78.24	94.91	8.84	5.05	3.02	0.00	190.07		
W	36.60	22.25	4.53	2.52	1.01	0.50	67.42		
WNW	30.79	21.99	3.27	1.76	1.26	4.03	63.09		
NW	49.43	21.93	0.50	0.76	0.00	0.75	73.38		
NNW	64.33	30.53	7.81	4.55	1.51	0.00	108.73		
TOTAL	858.34	959.25	206.23	79.89	28.75	10.33	2142.78		

TIME DURATION OF CALMS = 7.81 HRS.

TIME IN STABILITY CLASS = 2150.59 HRS.

LOST TIME ALL CLASSES = 57.34 HRS.

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/10/ 1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

WIND DIRECTION	WIND SPEED - MPH					TOTAL	
	0-75-3	4-7	8-12	13-18	19-24		24
N	7.330E-03	7.850E-03	9.923E-03	3.137E-03	5.254E-03	4.184E-03	3.768E-02
NNE	1.724E-02	1.519E-02	4.701E-03	5.249E-03	9.959E-03	5.195E-04	5.286E-02
NE	1.991E-02	3.985E-02	7.352E-03	5.759E-03	5.282E-04	0.000E+00	7.339E-02
ENE	1.678E-02	6.443E-02	1.626E-02	2.621E-03	0.000E+00	0.000E+00	1.001E-01
E	1.679E-02	6.703E-02	1.731E-02	1.577E-03	0.000E+00	0.000E+00	1.027E-01
ESE	2.200E-02	6.445E-02	2.356E-02	0.000E+00	0.000E+00	0.000E+00	1.180E-01
SE	2.356E-02	4.044E-02	1.939E-02	3.669E-03	0.000E+00	0.000E+00	8.786E-02
SSE	2.829E-02	4.558E-02	2.251E-02	0.000E+00	0.000E+00	0.000E+00	9.638E-02
S	3.669E-02	4.566E-02	1.523E-02	0.000E+00	0.000E+00	0.000E+00	9.761E-02
SSW	3.144E-02	4.709E-02	2.111E-03	0.000E+00	0.000E+00	0.000E+00	8.064E-02
SW	2.567E-02	3.668E-02	2.601E-03	0.000E+00	0.000E+00	0.000E+00	6.495E-02
WSW	2.093E-02	1.044E-02	2.613E-03	0.000E+00	0.000E+00	0.000E+00	3.397E-02
W	1.103E-02	5.782E-03	5.270E-04	0.000E+00	5.276E-04	1.047E-03	1.891E-02
WNW	3.141E-03	1.566E-03	5.207E-04	0.000E+00	1.570E-03	7.324E-03	1.412E-02
NW	6.795E-03	3.661E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.046E-02
NNW	3.680E-03	5.759E-03	4.720E-03	2.622E-03	2.089E-03	0.000E+00	1.887E-02
TOTAL	2.913E-01	5.015E-01	1.493E-01	2.463E-02	1.993E-02	1.307E-02	9.997E-01

PROBABILITY OF CALM WITHIN STABILITY CLASS = 5.195E-04

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/10/ 1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

WIND DIRECTION	STABILITY CLASS: B	WIND SPEED - MPH					TOTAL
		0.75-3	4-7	8-12	13-18	19-24	
N	1.871E-02	1.859E-02	0.000E+00	1.885E-02	4.667E-02	0.000E+00	1.028E-01
NNE	2.810E-02	9.466E-03	1.868E-02	9.417E-03	0.000E+00	0.000E+00	6.566E-02
NE	2.865E-02	5.645E-02	2.794E-02	0.000E+00	0.000E+00	0.000E+00	1.124E-01
ENE	1.872E-02	7.479E-02	3.739E-02	0.000E+00	0.000E+00	0.000E+00	1.309E-01
E	2.798E-02	7.469E-02	3.715E-02	0.000E+00	0.000E+00	0.000E+00	1.398E-01
ESE	3.741E-02	3.725E-02	3.723E-02	9.417E-03	0.000E+00	0.000E+00	1.213E-01
SE	9.417E-03	0.000E+00	9.396E-03	1.854E-02	0.000E+00	0.000E+00	3.736E-02
SSE	0.000E+00	0.000E+00	1.869E-02	0.000E+00	0.000E+00	0.000E+00	1.869E-02
S	2.799E-02	1.857E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.656E-02
SSW	1.854E-02	9.293E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.784E-02
SW	3.767E-02	5.617E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.384E-02
WSW	9.417E-03	1.866E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.601E-02
W	9.303E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.303E-03
WNW	0.000E+00	0.000E+00	9.417E-03	0.000E+00	9.272E-03	0.000E+00	1.869E-02
WW	0.000E+00	9.406E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.406E-03
WNW	9.272E-03	0.000E+00	1.868E-02	9.417E-03	0.000E+00	0.000E+00	3.737E-02
TOTAL	2.806E-01	3.833E-01	2.146E-01	6.565E-02	5.594E-02	0.000E+00	1.000E+00

PROBABILITY OF CALM WITHIN STABILITY CLASS = 0.000E+00

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/10/1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

STABILITY CLASS:	WIND SPEED - MPH							TOTAL
WIND DIRECTION	0.75-3	4-7	8-12	13-18	19-24	24		
N	9.240E-03	0.000E+00	9.088E-03	1.832E-02	3.652E-02	0.000E+00	7.316E-02	
NNE	2.757E-02	5.510E-02	9.088E-03	2.756E-02	0.000E+00	0.000E+00	1.193E-01	
NE	1.822E-02	3.664E-02	1.846E-02	0.000E+00	9.088E-03	0.000E+00	8.240E-02	
ENE	9.220E-03	1.011E-01	2.743E-02	0.000E+00	0.000E+00	0.000E+00	1.377E-01	
E	1.830E-02	9.194E-02	2.747E-02	0.000E+00	0.000E+00	0.000E+00	1.377E-01	
ESE	9.230E-03	1.847E-02	2.755E-02	9.088E-03	0.000E+00	0.000E+00	6.434E-02	
SE	0.000E+00	0.000E+00	0.000E+00	1.848E-02	0.000E+00	0.000E+00	1.848E-02	
SSE	9.230E-03	3.666E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.589E-02	
S	4.576E-02	2.762E-02	1.833E-02	0.000E+00	0.000E+00	0.000E+00	9.168E-02	
SSW	3.693E-02	1.831E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.524E-02	
SW	3.676E-02	9.199E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.596E-02	
WSW	1.832E-02	2.743E-02	9.240E-03	0.000E+00	0.000E+00	0.000E+00	5.498E-02	
W	1.822E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.822E-02	
WNW	9.240E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.240E-03	
NW	9.129E-03	9.240E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.837E-02	
NNW	9.109E-03	9.098E-03	9.098E-03	0.000E+00	0.000E+00	0.000E+00	2.731E-02	
TOTAL	2.845E-01	4.408E-01	1.557E-01	7.344E-02	4.560E-02	0.000E+00	1.000E+00	

PROBABILITY OF CALM WITHIN STABILITY CLASS = 0.000E+00

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/10/1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

WIND DIRECTION	STABILITY CLASS: 0	WIND SPEED - MPH						TOTAL
		0.75-3	4-7	8-12	13-18	19-24	24	
N	2.988E-02	3.287E-02	2.001E-02	2.563E-02	8.548E-03	4.261E-03	1.212E-01	
NNE	3.424E-02	6.840E-02	2.276E-02	1.997E-02	1.286E-02	7.099E-03	1.654E-01	
NE	3.991E-02	6.646E-02	2.275E-02	1.414E-03	0.000E+00	0.000E+00	1.306E-01	
ENE	3.856E-02	9.973E-02	3.136E-02	2.833E-03	0.000E+00	0.000E+00	1.725E-01	
E	2.708E-02	6.699E-02	7.140E-03	0.000E+00	0.000E+00	0.000E+00	1.012E-01	
ESE	1.712E-02	2.266E-02	7.139E-03	1.418E-03	0.000E+00	0.000E+00	4.853E-02	
SE	1.000E-02	9.975E-03	7.098E-03	0.000E+00	0.000E+00	0.000E+00	2.708E-02	
SSE	1.139E-02	7.159E-03	1.417E-03	0.000E+00	0.000E+00	0.000E+00	1.996E-02	
S	1.139E-02	1.142E-02	2.873E-03	1.436E-03	0.000E+00	0.000E+00	2.712E-02	
SSW	1.426E-02	2.131E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.560E-02	
SW	1.140E-02	9.933E-03	1.437E-03	0.000E+00	0.000E+00	0.000E+00	2.277E-02	
WSW	2.850E-02	1.282E-02	1.436E-03	0.000E+00	0.000E+00	0.000E+00	4.275E-02	
W	1.852E-02	0.000E+00	2.874E-03	0.000E+00	0.000E+00	0.000E+00	2.140E-02	
WNW	4.307E-03	0.000E+00	0.000E+00	2.854E-03	0.000E+00	0.000E+00	7.161E-03	
NW	8.538E-03	5.680E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.422E-02	
NNW	1.260E-02	1.134E-02	8.537E-03	2.848E-03	0.000E+00	0.000E+00	3.553E-02	
TOTAL	3.179E-01	4.470E-01	1.369E-01	5.841E-02	2.141E-02	1.136E-02	9.929E-01	

PROBABILITY OF CALM WITHIN STABILITY CLASS = 7.095E-03

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/10/ 1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

WIND DIRECTION	WIND SPEED - MPH							TOTAL
	0-7.5-3	4-7	8-12	13-16	17-24	>24		
N	2.575E-02	3.826E-02	2.642E-02	2.707E-02	5.929E-03	0.000E+00	1.234E-01	
NNE	3.240E-02	6.350E-02	6.336E-02	6.525E-02	1.126E-02	7.067E-04	2.365E-01	
NE	3.238E-02	5.876E-02	3.107E-02	5.297E-03	1.978E-03	0.000E+00	1.295E-01	
ENE	2.128E-02	5.104E-02	9.882E-03	6.652E-04	6.565E-04	0.000E+00	8.353E-02	
E	2.047E-02	1.165E-02	5.960E-03	0.000E+00	0.000E+00	0.000E+00	4.559E-02	
ESE	1.850E-02	1.782E-02	1.985E-03	0.000E+00	0.000E+00	0.000E+00	3.830E-02	
SE	1.519E-02	1.056E-02	3.280E-03	0.000E+00	0.000E+00	0.000E+00	2.903E-02	
SSE	1.453E-02	8.587E-03	2.633E-03	2.632E-03	0.000E+00	0.000E+00	2.838E-02	
S	8.589E-03	1.389E-02	3.296E-03	6.550E-04	0.000E+00	0.000E+00	2.643E-02	
SSW	2.800E-02	1.978E-02	1.312E-03	0.000E+00	0.000E+00	0.000E+00	4.910E-02	
SW	2.140E-02	2.646E-02	3.309E-03	0.000E+00	0.000E+00	0.000E+00	5.116E-02	
WSW	3.178E-02	1.385E-02	2.650E-03	1.996E-03	1.986E-03	0.000E+00	5.225E-02	
W	1.125E-02	3.973E-03	1.977E-03	3.326E-03	1.329E-03	0.000E+00	2.186E-02	
WNW	7.244E-03	3.966E-03	1.318E-03	1.322E-03	0.000E+00	6.550E-04	1.451E-02	
NW	9.260E-03	5.267E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.453E-02	
NNW	1.786E-02	1.783E-02	7.258E-03	3.967E-03	1.313E-03	0.000E+00	4.823E-02	
TOTAL	3.159E-01	3.727E-01	1.657E-01	1.122E-01	2.445E-02	1.362E-03	9.923E-01	

PROBABILITY OF CALM WITHIN STABILITY CLASS = 7.930E-03



PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/10/1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

STABILITY CLASS: F		WIND SPEED - MPH					TOTAL
WIND DIRECTION	0.75-3	4-7	8-12	13-18	19-24	24	TOTAL
N	3.805E-02	3.963E-02	1.364E-02	5.852E-03	0.000E+00	0.000E+00	9.718E-02
NNE	4.515E-02	3.415E-02	9.793E-03	9.813E-04	0.000E+00	0.000E+00	9.000E-02
NE	2.634E-02	4.218E-02	6.981E-03	9.770E-04	0.000E+00	0.000E+00	7.648E-02
ENE	3.219E-02	3.410E-02	1.953E-03	9.824E-04	0.000E+00	0.000E+00	6.923E-02
E	2.046E-02	1.269E-02	3.913E-03	0.000E+00	0.000E+00	0.000E+00	3.706E-02
ESE	1.070E-02	1.975E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.045E-02
SE	1.654E-02	1.654E-02	1.935E-03	0.000E+00	0.000E+00	0.000E+00	3.901E-02
SSE	2.736E-02	2.244E-02	6.811E-03	0.000E+00	9.824E-04	0.000E+00	5.959E-02
S	2.441E-02	1.954E-02	2.935E-03	9.824E-04	0.000E+00	0.000E+00	4.787E-02
SSW	4.191E-02	3.123E-02	9.673E-04	0.000E+00	0.000E+00	0.000E+00	7.411E-02
SW	3.608E-02	6.143E-02	3.905E-03	9.824E-04	0.000E+00	0.000E+00	1.024E-01
WSW	4.412E-02	4.491E-02	9.759E-03	6.848E-03	5.839E-03	0.000E+00	1.115E-01
W	2.160E-02	9.756E-03	5.830E-03	2.906E-03	0.000E+00	0.000E+00	4.009E-02
WNW	2.166E-02	8.738E-03	9.673E-04	2.921E-03	9.673E-04	9.824E-04	3.624E-02
NW	1.759E-02	7.801E-03	1.951E-03	9.813E-04	0.000E+00	2.917E-03	3.124E-02
NNW	3.901E-02	1.072E-02	1.965E-03	2.935E-03	0.000E+00	0.000E+00	5.462E-02
TOTAL	4.652E-01	4.176E-01	7.531E-02	2.735E-02	7.789E-03	3.899E-03	9.971E-01

PROBABILITY OF CALM WITHIN STABILITY CLASS = 2.923E-03

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/10/1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

WIND DIRECTION	WIND SPEED - MPH						TOTAL
	0.75-3	4-7	8-12	13-18	19-24	24	
N	2.990E-02	1.856E-02	1.584E-03	0.000E+00	0.000E+00	0.000E+00	5.004E-02
NNE	2.824E-02	2.217E-02	9.519E-04	3.135E-04	0.000E+00	0.000E+00	5.168E-02
NE	3.013E-02	2.056E-02	6.260E-04	0.000E+00	0.000E+00	0.000E+00	5.131E-02
ENE	2.471E-02	1.772E-02	9.512E-04	0.000E+00	0.000E+00	0.000E+00	4.339E-02
E	1.457E-02	9.158E-03	3.170E-04	0.000E+00	0.000E+00	0.000E+00	2.404E-02
ESE	1.203E-02	6.302E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.833E-02
SE	1.422E-02	5.391E-03	1.266E-03	0.000E+00	0.000E+00	0.000E+00	2.088E-02
SSE	1.962E-02	1.277E-02	1.899E-03	0.000E+00	0.000E+00	3.183E-04	3.459E-02
S	3.143E-02	2.595E-02	2.216E-03	0.000E+00	0.000E+00	3.135E-04	5.991E-02
SSW	5.478E-02	5.444E-02	1.581E-03	0.000E+00	0.000E+00	0.000E+00	1.108E-01
SW	5.439E-02	9.956E-02	1.574E-03	0.000E+00	3.180E-04	0.000E+00	1.558E-01
WSW	4.871E-02	8.712E-02	4.437E-03	3.159E-03	9.488E-04	0.000E+00	1.444E-01
W	2.181E-02	1.934E-02	1.890E-03	6.322E-04	3.176E-04	0.000E+00	4.399E-02
WNW	2.495E-02	2.190E-02	2.519E-03	0.000E+00	0.000E+00	0.000E+00	4.937E-02
NW	4.554E-02	1.834E-02	0.000E+00	6.374E-04	0.000E+00	0.000E+00	6.452E-02
NNW	5.379E-02	1.997E-02	0.000E+00	3.183E-04	0.000E+00	0.000E+00	7.408E-02
TOTAL	5.088E-01	4.593E-01	2.189E-02	5.060E-03	1.584E-03	6.318E-04	9.972E-01

PROBABILITY OF CALM WITHIN STABILITY CLASS = 3.165E-03

PROBABILITY WITHIN STABILITY CLASS FREQUENCY DISTRIBUTION

PERIOD OF RECORD: 92/10/1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

WIND DIRECTION	WIND SPEED - MPH						TOTAL
	0.75-3	4-7	8-12	13-18	19-24	>24	
N	2.469E-02	2.314E-02	1.090E-02	8.792E-03	3.985E-03	1.287E-03	7.279E-02
NNE	2.904E-02	3.348E-02	1.666E-02	1.511E-02	5.287E-03	8.258E-04	9.977E-02
NE	2.842E-02	3.869E-02	1.070E-02	2.463E-03	5.856E-04	3.000E+00	8.085E-02
ENE	2.410E-02	4.460E-02	9.381E-03	1.056E-03	1.166E-04	0.000E+00	7.925E-02
E	1.807E-02	3.095E-02	6.925E-03	3.530E-04	0.000E+00	0.000E+00	5.630E-02
ESE	1.595E-02	2.489E-02	7.033E-03	3.511E-04	0.000E+00	0.000E+00	4.822E-02
SE	1.642E-02	1.598E-02	6.326E-03	1.290E-03	0.000E+00	0.000E+00	4.001E-02
SSE	2.053E-02	2.022E-02	7.618E-03	4.673E-04	1.181E-04	1.181E-04	4.907E-02
S	2.621E-02	2.620E-02	5.641E-03	3.525E-04	0.000E+00	1.163E-04	5.851E-02
SSW	3.925E-02	4.011E-02	1.408E-03	0.000E+00	0.000E+00	0.000E+00	8.077E-02
SW	3.594E-02	5.887E-02	2.341E-03	1.181E-04	1.180E-04	0.000E+00	9.739E-02
WSW	3.640E-02	4.415E-02	4.111E-03	2.350E-03	1.407E-03	0.000E+00	8.842E-02
W	1.793E-02	1.035E-02	2.107E-03	1.174E-03	4.719E-04	2.343E-04	3.136E-02
WNW	1.432E-02	1.023E-02	1.519E-03	8.208E-04	5.839E-04	1.874E-03	2.935E-02
NW	2.300E-02	1.020E-02	2.345E-04	3.544E-04	0.000E+00	3.507E-04	3.413E-02
NNW	2.993E-02	1.423E-02	3.634E-03	2.115E-03	7.007E-04	0.000E+00	5.058E-02
TOTAL	3.993E-01	4.462E-01	9.595E-02	3.716E-02	1.337E-02	4.806E-03	9.968E-01

PROBABILITY OF CALM WITHIN STABILITY CLASS = 3.633E-03

OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD: 92/10/ 1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

STABILITY CLASS: A

WIND DIRECTION	WIND SPEED - MPH							TOTAL
	0.75-3	4-7	6-12	13-18	19-24	24		
N	1.641E-03	1.757E-03	2.221E-03	7.023E-04	1.176E-03	9.366E-04	8.434E-03	
NNE	3.860E-03	3.400E-03	1.052E-03	1.175E-03	2.229E-03	1.163E-04	1.183E-02	
NE	4.456E-03	8.919E-03	1.646E-03	1.289E-03	1.182E-04	0.000E+00	1.643E-02	
ENE	3.756E-03	1.442E-02	3.659E-03	5.868E-04	0.000E+00	0.000E+00	2.240E-02	
E	3.757E-03	1.501E-02	3.874E-03	3.530E-04	0.000E+00	0.000E+00	2.299E-02	
ESE	4.925E-03	1.443E-02	5.273E-03	0.000E+00	0.000E+00	0.000E+00	2.463E-02	
SE	5.273E-03	9.053E-03	4.340E-03	8.212E-04	0.000E+00	0.000E+00	1.949E-02	
SSE	6.232E-03	1.020E-02	5.039E-03	0.000E+00	0.000E+00	0.000E+00	2.157E-02	
S	6.213E-03	1.023E-02	3.410E-03	0.000E+00	0.000E+00	0.000E+00	2.185E-02	
SSW	7.038E-03	1.054E-02	4.724E-04	0.000E+00	0.000E+00	0.000E+00	1.805E-02	
SW	5.746E-03	8.210E-03	5.821E-04	0.000E+00	0.000E+00	0.000E+00	1.454E-02	
WSW	4.684E-03	2.336E-03	5.850E-04	0.000E+00	0.000E+00	0.000E+00	7.605E-03	
W	2.468E-03	1.294E-03	1.160E-04	0.000E+00	1.181E-04	2.343E-04	4.233E-03	
WNW	7.031E-04	3.510E-04	1.166E-04	0.000E+00	3.513E-04	1.649E-03	3.161E-03	
NW	1.521E-03	8.195E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.341E-03	
NNW	6.238E-04	1.289E-03	1.056E-03	5.869E-04	4.676E-04	0.000E+00	4.224E-03	
TOTAL	6.520E-02	1.123E-01	3.343E-02	5.514E-03	4.461E-03	2.927E-03	2.238E-01	

OVERALL PROBABILITY OF CALM OCCURRENCE = 1.163E-04

OVERALL PROBABILITY OF COMBITION OCCURRENCE

PERIOD OF RECORD: 92/10/1 14RU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

WIND DIRECTION	STABILITY CLASS: 6	WIND SPEED - MPH						TOTAL
		0.75-3	4-7	8-12	13-18	19-24	24	
N	2.347E-04	2.231E-04	0.000E+00	2.365E-04	5.854E-04	0.000E+00	1.290E-03	
NNE	3.524E-04	1.168E-04	2.343E-04	1.181E-04	0.000E+00	0.000E+00	8.235E-04	
NE	3.519E-04	7.080E-04	3.504E-04	0.000E+00	0.000E+00	0.000E+00	1.410E-03	
ENE	2.548E-04	9.380E-04	4.689E-04	0.000E+00	0.000E+00	0.000E+00	1.642E-03	
E	3.510E-04	9.368E-04	4.660E-04	0.000E+00	0.000E+00	0.000E+00	1.754E-03	
ESE	4.692E-04	4.673E-04	4.670E-04	1.181E-04	0.000E+00	0.000E+00	1.522E-03	
SE	1.181E-04	0.000E+00	1.178E-04	2.326E-04	0.000E+00	0.000E+00	4.685E-04	
SSE	0.000E+00	0.000E+00	2.344E-04	0.000E+00	0.000E+00	0.000E+00	2.344E-04	
S	3.511E-04	2.329E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.839E-04	
SSW	2.326E-04	1.166E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.491E-04	
SW	4.724E-04	7.045E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.177E-03	
WSW	1.181E-04	2.332E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.513E-04	
W	1.167E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.167E-04	
WRU	0.000E+00	0.000E+00	1.181E-04	0.000E+00	1.163E-04	0.000E+00	2.344E-04	
RU	0.000E+00	1.180E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.180E-04	
NRU	1.163E-04	0.000E+00	2.343E-04	1.181E-04	0.000E+00	0.000E+00	4.687E-04	
TOTAL	3.519E-03	4.807E-03	2.691E-03	8.234E-04	7.017E-04	0.000E+00	1.254E-02	

OVERALL PROBABILITY OF CALM OCCURRENCE = 0.000E+00

OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD: 92/10/1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

STABILITY CLASS: C

WIND DIRECTION	WIND SPEED - MPH								TOTAL
	0.75-3	4-7	8-12	13-18	19-24	24	24	24	
N	1.182E-04	0.000E+00	1.163E-04	2.344E-04	4.673E-04	0.000E+00	0.000E+00	0.000E+00	9.362E-04
NNE	3.528E-04	7.050E-04	1.163E-04	3.526E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.527E-03
NE	2.331E-04	4.688E-04	2.362E-04	0.000E+00	1.163E-04	0.000E+00	0.000E+00	0.000E+00	1.054E-03
ENE	1.180E-04	1.294E-03	3.510E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.763E-03
E	2.341E-04	1.177E-03	3.515E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.762E-03
ESE	1.181E-04	2.363E-04	3.525E-04	1.163E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.232E-04
SE	0.000E+00	0.000E+00	0.000E+00	2.365E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.365E-04
SSE	1.181E-04	4.691E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.672E-04
S	5.855E-04	3.534E-04	2.341E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.173E-03
SSW	4.725E-04	2.343E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.068E-04
SW	4.704E-04	1.177E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.881E-04
WSW	2.344E-04	3.510E-04	1.182E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.036E-04
W	2.331E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.331E-04
WNW	1.182E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.182E-04
NW	1.168E-04	1.162E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.350E-04
NRW	1.166E-04	1.164E-04	1.164E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.494E-04
TOTAL	3.640E-03	5.640E-03	1.993E-03	9.398E-04	5.635E-04	0.000E+00	0.000E+00	0.000E+00	1.280E-02

OVERALL PROBABILITY OF CALM OCCURRENCE = 0.000E+00

OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD: 92/10/1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

WIND DIRECTION	STABILITY CLASS: 0	WIND SPEED - MPH				TOTAL	
		0-7	8-12	13-18	19-24		
N	0.75-3	2.704E-03	1.646E-03	2.109E-03	7.032E-04	3.506E-04	9.971E-03
NNE	0.75-3	5.627E-03	1.874E-03	1.643E-03	1.058E-03	5.841E-04	1.360E-02
NE	0.75-3	5.468E-03	1.875E-03	1.163E-04	0.000E+00	0.000E+00	1.074E-02
ENE	0.75-3	8.205E-03	2.580E-03	2.331E-04	0.000E+00	0.000E+00	1.419E-02
E	0.75-3	5.511E-03	5.874E-04	0.000E+00	0.000E+00	0.000E+00	8.327E-03
ESE	0.75-3	1.881E-03	5.873E-04	1.167E-04	0.000E+00	0.000E+00	3.993E-03
SE	0.75-3	8.207E-04	5.839E-04	0.000E+00	0.000E+00	0.000E+00	2.228E-03
SSE	0.75-3	5.890E-04	1.166E-04	0.000E+00	0.000E+00	0.000E+00	1.642E-03
S	0.75-3	9.398E-04	2.363E-04	1.181E-04	0.000E+00	0.000E+00	2.231E-03
SSW	0.75-3	1.753E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.928E-03
SW	0.75-3	8.172E-04	1.182E-04	0.000E+00	0.000E+00	0.000E+00	1.873E-03
WSW	0.75-3	1.054E-03	1.181E-04	0.000E+00	0.000E+00	0.000E+00	3.517E-03
W	0.75-3	0.000E+00	2.365E-04	0.000E+00	0.000E+00	0.000E+00	1.760E-03
WNW	0.75-3	0.000E+00	0.000E+00	2.348E-04	0.000E+00	0.000E+00	5.891E-04
NW	0.75-3	4.673E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.170E-03
NNW	0.75-3	9.331E-04	7.023E-04	2.343E-04	0.000E+00	0.000E+00	2.923E-03
TOTAL		3.677E-02	1.126E-02	4.805E-03	1.761E-03	9.346E-04	8.169E-02

OVERALL PROBABILITY OF CALM OCCURRENCE = 5.837E-04

OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD: 92/10/1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

WIND DIRECTION	STABILITY CLASS: E	WIND SPEED - MPH						TOTAL
		0.75-3	4-7	8-12	13-18	19-24	>24	
N	4.571E-03	6.792E-03	4.690E-03	4.806E-03	1.053E-03	0.000E+00	2.191E-02	
NNE	5.752E-03	1.127E-02	1.125E-02	1.158E-02	2.000E-03	1.255E-04	4.198E-02	
NE	5.748E-03	1.043E-02	5.517E-03	9.404E-04	3.511E-04	0.000E+00	2.299E-02	
ENE	3.778E-03	9.062E-03	1.754E-03	1.161E-04	1.166E-04	0.000E+00	1.483E-02	
E	3.634E-03	3.401E-03	1.056E-03	0.000E+00	0.000E+00	0.000E+00	8.093E-03	
ESE	3.284E-03	3.163E-03	3.524E-04	0.000E+00	0.000E+00	0.000E+00	6.800E-03	
SE	2.696E-03	1.876E-03	5.823E-04	0.000E+00	0.000E+00	0.000E+00	5.154E-03	
SSE	2.580E-03	1.525E-03	4.674E-04	4.73E-04	0.000E+00	0.000E+00	5.039E-03	
S	1.525E-03	2.467E-03	5.851E-04	1.163E-04	0.000E+00	0.000E+00	4.673E-03	
SSW	4.972E-03	3.512E-03	2.329E-04	0.000E+00	0.000E+00	0.000E+00	8.716E-03	
SW	3.799E-03	4.697E-03	5.874E-04	0.000E+00	0.000E+00	0.000E+00	9.083E-03	
WSW	5.643E-03	2.456E-03	4.705E-04	3.544E-04	3.526E-04	0.000E+00	9.276E-03	
W	1.998E-03	7.054E-04	3.510E-04	5.905E-04	2.360E-04	0.000E+00	3.881E-03	
WNW	1.286E-03	7.041E-04	2.340E-04	2.348E-04	0.000E+00	1.163E-04	2.575E-03	
NW	1.644E-03	9.350E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.579E-03	
NNW	3.171E-03	3.166E-03	1.269E-03	7.042E-04	2.331E-04	0.000E+00	8.562E-03	
TOTAL	5.608E-02	6.616E-02	2.942E-02	1.992E-02	4.341E-03	2.418E-04	1.762E-01	

OVERALL PROBABILITY OF CALM OCCURRENCE = 1.408E-03



OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD: 92/10/1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

STABILITY CLASS: F

WIND DIRECTION	WIND SPEED - MPH							TOTAL
	0-7.5-3	4-7	8-12	13-18	19-24	>24		
N	4.575E-03	4.764E-03	1.640E-03	7.036E-04	0.000E+00	0.000E+00	1.166E-02	
NNE	5.429E-03	4.106E-03	1.177E-03	1.180E-04	0.000E+00	0.000E+00	1.083E-02	
NE	3.167E-03	5.071E-03	8.393E-04	1.175E-04	0.000E+00	0.000E+00	9.195E-03	
ENE	3.870E-03	4.100E-03	2.348E-04	1.181E-04	0.000E+00	0.000E+00	8.323E-03	
E	2.459E-03	1.525E-03	4.795E-04	0.000E+00	0.000E+00	0.000E+00	4.455E-03	
ESE	1.286E-03	2.374E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.660E-03	
SE	2.229E-03	2.229E-03	2.326E-04	0.000E+00	0.000E+00	0.000E+00	4.690E-03	
SSE	3.289E-03	2.698E-03	1.059E-03	0.000E+00	1.191E-04	0.000E+00	7.164E-03	
S	2.934E-03	2.350E-03	3.529E-04	1.181E-04	0.000E+00	0.000E+00	5.755E-03	
SSW	5.039E-03	3.755E-03	1.163E-04	0.000E+00	0.000E+00	0.000E+00	8.810E-03	
SW	4.337E-03	7.386E-03	4.694E-04	1.181E-04	0.000E+00	0.000E+00	1.231E-02	
WSW	5.305E-03	5.399E-03	1.173E-03	8.232E-04	7.020E-04	0.000E+00	1.340E-02	
W	2.597E-03	1.173E-03	7.009E-04	3.474E-04	0.000E+00	0.000E+00	4.820E-03	
WNW	2.604E-03	1.051E-03	1.163E-04	3.512E-04	1.163E-04	1.181E-04	4.357E-03	
NW	7.114E-03	9.379E-04	2.345E-04	1.180E-04	0.000E+00	3.507E-04	3.753E-03	
NNW	4.690E-03	1.288E-03	2.362E-04	3.529E-04	0.000E+00	0.000E+00	6.567E-03	
TOTAL	5.592E-02	5.021E-02	9.054E-03	3.288E-03	9.364E-04	4.688E-04	1.199E-01	

OVERALL PROBABILITY OF CALM OCCURRENCE = 3.515E-04

OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD: 92/10/ 1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

WIND DIRECTION	WIND SPEED - MPH						TOTAL
	0-75-3	4-7	8-12	13-18	19-24	>24	
N	1.109E-02	6.886E-03	5.876E-04	0.000E+00	0.000E+00	0.000E+00	1.657E-02
NNE	1.048E-02	8.227E-03	3.532E-04	1.163E-04	0.000E+00	0.000E+00	1.917E-02
NE	1.118E-02	7.626E-03	2.350E-04	0.000E+00	0.000E+00	0.000E+00	1.904E-02
ENE	9.168E-03	6.575E-03	3.529E-04	0.000E+00	0.000E+00	0.000E+00	1.610E-02
E	5.404E-03	3.398E-03	1.176E-04	0.000E+00	0.000E+00	0.000E+00	8.919E-03
ESE	4.462E-03	2.338E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.801E-03
SE	5.277E-03	2.000E-03	4.696E-04	0.000E+00	0.000E+00	0.000E+00	7.746E-03
SSE	7.279E-03	4.736E-03	7.009E-04	0.000E+00	0.000E+00	1.181E-04	1.283E-02
S	1.166E-02	9.627E-03	8.222E-04	0.000E+00	0.000E+00	1.163E-04	2.223E-02
SSW	2.032E-02	2.020E-02	5.866E-04	0.000E+00	0.000E+00	0.000E+00	4.111E-02
SW	2.018E-02	3.694E-02	5.838E-04	0.000E+00	1.180E-04	0.000E+00	5.782E-02
WSW	1.807E-02	3.232E-02	1.646E-03	1.172E-03	3.520E-04	0.000E+00	5.356E-02
W	8.091E-03	7.177E-03	7.010E-04	2.345E-04	1.178E-04	0.000E+00	1.632E-02
WNW	9.256E-03	8.125E-03	9.344E-04	0.000E+00	0.000E+00	0.000E+00	1.831E-02
W	1.690E-02	6.803E-03	0.000E+00	2.365E-04	0.000E+00	0.000E+00	2.394E-02
WNW	1.996E-02	7.411E-03	0.000E+00	1.181E-04	0.000E+00	0.000E+00	2.748E-02
TOTAL	1.868E-01	1.704E-01	8.089E-03	1.877E-03	5.878E-04	2.344E-04	3.699E-01

OVERALL PROBABILITY OF CALM OCCURRENCE = 1.174E-03

OVERALL PROBABILITY OF CONDITION OCCURRENCE

PERIOD OF RECORD: 92/10/1 THRU 92/12/31

REPORT FOR 4 TH QUARTER OF 92

WIND DIRECTION	STABILITY CLASS:	TOTAL	WIND SPEED - MPH					TOTAL
			0-7	8-12	13-18	19-24	24	
N	0.75-3	2.469E-02	2.314E-02	1.090E-02	8.792E-03	3.985E-03	1.287E-03	7.279E-02
NNE		2.904E-02	3.346E-02	1.606E-02	1.511E-02	5.287E-03	8.258E-04	9.977E-02
NE		2.642E-02	3.889E-02	1.070E-02	2.463E-03	5.856E-04	0.000E+00	8.985E-02
ENE		2.410E-02	4.460E-02	9.381E-03	1.056E-03	1.166E-04	0.000E+00	7.925E-02
E		1.607E-02	3.095E-02	6.925E-03	3.530E-04	0.000E+00	0.000E+00	5.630E-02
ESE		1.595E-02	2.489E-02	7.033E-03	3.511E-04	0.000E+00	0.000E+00	4.822E-02
SE		1.642E-02	1.598E-02	6.326E-03	1.290E-03	0.000E+00	0.000E+00	4.001E-02
SSE		2.053E-02	2.022E-02	7.618E-03	4.673E-04	1.181E-04	1.181E-04	4.907E-02
S		2.621E-02	2.620E-02	5.641E-03	3.525E-04	0.000E+00	1.163E-04	5.851E-02
SSW		3.925E-02	4.011E-02	1.408E-03	0.000E+00	0.000E+00	0.000E+00	8.077E-02
SW		3.594E-02	5.867E-02	2.341E-03	1.181E-04	1.180E-04	0.000E+00	9.739E-02
WSW		3.640E-02	4.415E-02	4.111E-03	2.350E-03	1.407E-03	0.000E+00	8.842E-02
W		1.703E-02	1.055E-02	2.107E-03	1.174E-03	4.719E-04	2.343E-04	3.136E-02
WNW		1.432E-02	1.023E-02	1.519E-03	8.208E-04	5.839E-04	1.874E-03	2.935E-02
NW		2.300E-02	1.020E-02	2.345E-04	3.544E-04	0.000E+00	3.507E-04	3.413E-02
NNW		2.993E-02	1.420E-02	3.634E-03	2.115E-03	7.007E-04	0.000E+00	5.058E-02
TOTAL		3.993E-01	4.462E-01	9.593E-02	3.716E-02	1.337E-02	4.806E-03	9.568E-01

OVERALL PROBABILITY OF CALM OCCURRENCE = 3.633E-03

PERIOD OF RECORD: 92/10/ 1 THRU 92/12/31

NUMBER OF RECORDS IN SELECTED TIME PERIOD = 8595  
NUMBER OF OBSERVATIONS TAKEN FROM PRIMARY LOCATION = 8594  
NUMBER OF OBSERVATIONS TAKEN FROM THE NOAA TOWER = 1  
NUMBER OF OBSERVATIONS TAKEN FROM THE 50M LEVEL = 0  
NO. OF OBSERVATIONS WITH NO VALID WIND SPEED/DIR. = 0  
NO. OF OBSERVATIONS WITH OUT-OF-RANGE DELTA TEMP. = 0  
MOST CONSERVATIVE STABILITY CATEGORY (G) ASSUMED = 51

LOST TIME = 57.34 HRS TOTAL TIME = 2207.94 HRS

DATA AVAILABILITY = 97.40 %