

**ESTIMATED DOSE REPORT FOR 2004
MAINE YANKEE ATOMIC POWER STATION**

Docket No. 50-309
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Maine Yankee Atomic Power Company

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**MAINE YANKEE ATOMIC
POWER STATION
ESTIMATED DOSE REPORT FOR 2004**

1.0 INTRODUCTION

This report summarizes the radiological dose commitments resulting from all radioactive liquid and gaseous effluent discharges during the 2004 calendar year. The off-site doses presented by calendar quarter in Table 1 were determined from primary effluent data sets, which have been summarized and reported to the NRC in the Annual Radioactive Effluent Release Report for 2004. Cumulative joint frequency distributions for wind speed, wind direction, and atmospheric stability for the 5-year period, January 1986 to December 1990, are provided in Tables A through H. Annual wind roses are also provided in Figures 1 and 2.

For the purposes of demonstrating compliance with 40CFR190, "Environmental Radiation Protection Standards for Nuclear Power Operations," radiation dose estimates must include direct radiation contributions from significant plant sources. Data from thermoluminescent dosimeters (TLDs) in the area of the western security fence (Bailey Cove mud flats) and around the Independent Spent Fuel Storage Installation (ISFSI) were evaluated for potential direct / scatter dose contributions to members of the public off-site to determine compliance with the 40CFR190 dose limits. This includes use of the mud flats in Bailey Cove during periods of low tide as past years assessments indicated that this was an area impacted by on-site fixed radiation sources. Table 2 lists the results from the combined impact of all plant sources (liquids, gases and fixed) to any member of the public in both Bailey Cove and off-site areas near the ISFSI.

Dose commitments from the discharge of radioactive liquid and gaseous effluents were estimated in accordance with the "Maine Yankee Atomic Power Station Off-Site Dose Calculation Manual" (ODCM), and are reported herein as required by ODCM Appendix C.3 (Reference 1). These dose estimates were developed using a "Method II" analysis as described in the ODCM. The Method II analysis incorporates the methodology of Regulatory Guide 1.109 (Reference 2) and 5-year historical measured meteorological data. Table 3 lists important receptor locations as determined by the 2004 Annual Land Use Census.

All calculated liquid and gaseous pathway doses for this reporting period are well below the dose criteria of 10CFR50, Appendix I, and the dose limits for effluent releases stated in the Maine Yankee ODCM. In addition, the total dose to the most limiting member of the public due to the combined exposure to plant-related direct radiation and liquid and gaseous effluents was below the dose standards of 40CFR190.

2.0 METEOROLOGICAL DATA

With the permanent shutdown and decommissioning of Maine Yankee, the generation of gaseous fission and activation products and operation of the batch gas process system has ended. All atmospheric effluent releases during the remaining parts of the decommissioning process in 2004 were associated with evaporative losses from the Spent Fuel Pool (SFP) and gaseous releases associated with fuel transfer to dry storage canisters. These release types are considered continuous or repeated random occurrences. Guidance provided in Section 3.3 of NUREG-0133 (Reference 6) recommends the use of historical annual average meteorological data for calculating doses under conditions of continuous (or multiple random events) releases. Accordingly, the ODCM recognizes the use of historical annual average data to assess effluent releases during the final stages of decommissioning. The site's meteorological tower was taken out of service in 2000.

Historical meteorological data collected from the site's 200-foot meteorological tower (located approximately 1800 feet northeast of the former Primary Vent Stack) was used in determining offsite doses for gaseous effluent releases during 2004. The tower instrumentation was designed to meet the requirements of Regulatory Guide 1.23 (Reference 3) for meteorological monitoring. Cumulative joint frequency distributions for wind speed, direction, and stability class for the calendar years 1986 -1990 are provided in Tables A through H. Wind rose patterns for all stability classes for the same period are illustrated on Figures 1 and 2.

A primary remaining release point for gaseous discharges in 2004 was from the Fuel Building Vent (FBV) exhaust. It is treated as a ground level release since it does not qualify as an elevated or mixed mode release point as defined in Regulatory Guide 1.111 (Reference 4).

Atmospheric dispersion values, CHI/Q and D/Q, were derived for all receptor points from the site meteorological record using a straight-line airflow model. In the dispersion calculations, lower level wind data collected from the site meteorological tower are used "as is" for the FBV (ground level release point) in keeping with the guidance provided in the NRC meteorological dispersion code "XOQDOQ", NUREG/CR-2919 (Reference 5).

Since the SFP was demolished in the second quarter of 2004 following completion of all spent fuel transfer to the ISFSI, there are only two quarters of ground level release data for 2004.

3.0 DOSE ASSESSMENT

3.1 Doses from Liquid Effluents

ODCM Section 2.1.4 limits total body and organ doses from liquid effluents to members of the public in unrestricted areas to those values specified in 10CFR Part 50, Appendix I. The limit for total body dose is 1.5 mrem per calendar quarter, and 3 mrem per calendar year. The limit for organ doses is 5 mrem per calendar quarter and 10 mrem per calendar year. By implementing the requirements of 10CFR Part 50, Appendix I, ODCM Section 2.1.4 assures that the release of radioactive material in liquid effluents will be kept "as low as is reasonably achievable."

Potential exposure pathways associated with liquid effluents from Maine Yankee are ingestion of fish/shellfish and direct exposure from shoreline sedimentation. The drinking water and irrigation pathways do not exist due to the saltwater nature of the receiving water estuary.

The calculated doses from liquid effluents incorporate near-field mixing in an area of the estuary (approximately 13 acres) originally credited to the plant's effluent releases for doses due to ingestion of fish, shellfish, and shoreline exposures. Table 4 lists the usage factors by age group and pathway that were applied to liquid effluent.

The whole body and organ doses resulting from liquid effluent discharges are the summations of dose contributions via all active exposure pathways for each release during the reporting period. Table 1 presents the maximum whole body and organ doses from liquid effluent to a member of the public. The estimated quarterly and annual doses resulting from liquid effluent discharges are well below the 10CFR50, Appendix I dose criteria.

3.2 Doses from Noble Gases

During the time of effluent releases, the ODCM (Section 2.2.4 in 2004) limited the gamma air dose and beta air dose from noble gases released in gaseous effluent from the site to areas at and beyond the site boundary to those values specified in 10CFR50, Appendix I. The limit for gamma air doses was 5 mrad per calendar quarter and 10 mrad per year. The limit for beta air doses was 10 mrad per calendar quarter and 20 mrad per year. By implementing the requirements of 10CFR50, the releases of radioactive noble gases in gaseous effluents are kept "as low as is reasonably achievable."

Gamma and beta air doses due to noble gases in gaseous effluent are calculated for several locations when noble gases are recorded in effluent. Those locations are the point of approximate highest off-site ground level air concentration of radioactive material, site boundary (or closest point on opposite shoreline in directions which border the river), nearest resident, nearest vegetable garden, and nearest milk animal within five miles for each of the sixteen principle compass directions.

During 2004, a total of 4.68 Ci of Krypton-85 was detected in the first quarter. This is a result of spent fuel assemblies being transferred from the Spent Fuel Pool to Transportable Storage Canisters (TSC) before their placement on the Independent Spent Fuel Storage Installation (ISFSI). The maximum gamma and beta air doses resulting from these releases are included in Table 1.

3.3 Doses from Tritium and Radionuclides in Particulate Form

Section 2.2.5 of the ODCM (in 2004) implemented limits on organ doses established in 10CFR50 Appendix I, which assured that the releases of iodines, tritium and particulates in gaseous effluent will be kept "as low as is reasonably achievable." Organ doses to individuals located at or beyond the site boundary as a result of tritium and particulate-form radionuclides (with half-lives greater than 8 days) in gaseous effluent are limited to 7.5 mrem per quarter and 15 mrem per year doses. Short-

lived radionuclides such as Iodine-131 and Iodine-133 have decayed away since the permanent shutdown of the plant and no longer present any potential dose to the public.

Potential exposure pathways associated with gaseous effluent are (i) external irradiation from radioactivity deposited on the ground surface, (ii) inhalation, and (iii) ingestion of vegetables, meat, and milk. Dose estimates were determined for site boundary locations (including opposite shoreline for boundaries next to water) and for the locations of the nearest resident, vegetable garden, and milk animal in each of the sixteen principle compass directions. The locations of the nearest resident, vegetable garden, and milk animal in each sector were identified by the 2004 Annual Land Use Census as required by ODCM Section 2.4.4 (see Table 3). Additionally, doses were calculated at the point of approximate maximum ground level air concentration of radioactive materials in gaseous effluent. Doses were calculated for pathways that were determined by the field survey to actually exist. Conservatism in the dose estimates was maintained by assuming that the vegetable garden pathway was active at each milk animal location and that meat ingestion was an active exposure pathway at each milk cow location. Meat and milk animals were assumed to receive their entire intake from pasture during the second and third quarters. This is a conservative assumption because most dairy operations utilize supplemental feeding when animals are on pasture, or actually restrict animals to full time silage feeding throughout the entire year. Usage factors for gaseous effluent are listed by age group and pathway in Table 5. Table 6 provides dose model parameter assumptions used in the dose assessment.

The organ doses were determined by summing the contributions from all exposure pathways at each location. Doses were calculated for the whole body, GI-tract, bone, liver, kidney, thyroid, lung, and skin for adults, teenagers, children, and infants. The estimated quarterly and annual organ doses due to iodines, tritium and particulates at the location of the maximally exposed individual are reported in Table 1. The estimated organ doses from iodines, tritium and particulates in gaseous effluents are well below the 10CFR50, Appendix I dose criteria.

3.4 Total Dose from Direct External Radiation, Plus Liquid and Gaseous Effluents

The annual (calendar year) total dose or dose commitment to any member of the public due to releases of radioactivity and direct radiation from fixed sources are limited to the EPA's radiation protection standards for the uranium fuel cycle (40CFR190). The dose limits are set to less than or equal to 25 mrem per year to the total body or any organ, except the thyroid, which is limited to less than or equal to 75 mrem per year.

Direct external dose from fixed sources of radioactive materials on-site were estimated from Maine Yankee's 2004 TLD data. For the ISFSI, a series of TLDs have been located in each of the sixteen compass sectors within 340 meters of the center of the facility. An assessment of the quarterly TLD data from before any radioactive materials were placed into storage, through the fourteen month transfer period of materials onto the ISFSI, and following completion of all transfers in early 2004 was performed. The closest site boundary to the ISFSI is about 1100 feet from the center of the facility in the NE and ENE sectors, with the nearest real resident approximately twice this distance. The TLD history for the closest site boundary areas did not show any significant change in exposure rate from the pre-operational period through the full ISFSI configuration in 2004. Therefore, it is concluded that there was no measurable or significant direct dose to any offsite member of the public from the ISFSI.

The data from TLDs posted in the area from the western security fence to the edge of Bailey Cove indicate potentially above-background radiation in 2004 (net exposure determined to be within the statistical uncertainty of the TLD measurements). The annual direct dose from plant-related fixed radiation sources to members of the public on the mud flats (the closest off-site area to the former plant structures), as derived from TLD measurements (not considering the measurement uncertainty), was estimated to be 0.06 mrem. That estimated dose incorporated an occupancy time of 325 hours per year for worm diggers, as stated in the Maine Yankee ODCM. The receptor location used in the dose assessment was the center of the nearest portion of mud flats exposed at low tide, approximately 150

meters from the location of the former Primary Vent Stack. It is noted that most of the mud flat region in Bailey Cove that is used by the public is situated further away from this selected reference point. As a result, actual exposures from direct radiation would be less than the value applied in the estimate of direct dose to the worm diggers as they move across the flats.

The dose from liquid and gaseous effluents affecting Bailey Cove was added to the direct plant-related dose. Liquid and gaseous effluent doses were calculated as described above in determining compliance with the "as low as reasonably achievable" dose objective of 10CFR50, Appendix I. Those doses were found to be only small fractions of the direct plant-related dose. In 2004, the total dose to a member of the public using the mud flats due to the combined exposure from direct plant-related radiation and discharges of liquid and gaseous effluent was 0.17 mrem (shown in Table 2). The annual total dose complies with the EPA's radiation protection standards in 40CFR190.

Table 2 lists the dose contribution from each component (direct, liquid and gas) to the total body, maximum organ, and thyroid for the limiting member of the public on the mud flats. It should be noted that the gas dose to the total body includes the contribution from noble gas release recorded in the first quarter during the transfer of Spent Fuel to the Transportable Storage Canisters before placement on the ISFSI.

4.0 REFERENCES

1. "Off-Site Dose Calculation Manual," Maine Yankee Atomic Power Company, Change No. 29, Approved 07/21/04.
2. Regulatory Guide 1.109, "Calculation of Annual Doses to Man from Routine Release of Reactor Effluents for the Purpose of Evaluating Compliance With 10CFR50, Appendix I," U.S. Nuclear Regulatory Commission, Office of Standards Development, Revision 1, October 1977.
3. Regulatory Guide 1.23, "On-Site Meteorological Programs (Safety Guide 23)," U.S. Nuclear Regulatory Commission, Office of Standards Development, February 1972.
4. Regulatory Guide 1.111, "Methods for Estimating Atmospheric Transport and Dispersion of Gaseous Effluents in Routine Releases from Light - Water - Cooled Reactors," U.S. Nuclear Regulatory Commission, Office of Standards Development, Revision 1, October 1977.
5. XOQDOQ: "Computer Program for the Meteorological Evaluation of Routine Effluent Releases at Nuclear Power Stations," NUREG/CR-2919, prepared by Pacific Northwest Laboratory for the U.S. Nuclear Regulatory Commission, September 1982.
6. NUREG-0133, "Preparation of Radiological Effluent Technical Specifications for Nuclear Power Plants," U.S. Nuclear Regulatory Commission, Office of Nuclear Reactor Regulation, October 1978.

TABLE 1

**Maine Yankee Atomic Power Station
Maximum Off-Site Doses/Dose Commitments to Members of the Public
from Liquid and Gaseous Effluents for 2004
(10CFR50, Appendix I)**

Source	Dose (mrem)				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Year ^(b)
Liquid Effluents					
Total Body Dose ^(a)	1.9E-03	3.6E-02	6.9E-02	1.1E-04	1.1E-1
Footnotes	(1)	(1)	(1)	(1)	
Organ Dose ^(a)	4.4E-03	7.5E-02	1.7E-01	1.3E-04	2.5E-1
Footnotes	(2)	(2)	(2)	(3)	
Airborne Effluents					
Organ Dose ^(a) (Tritium + Part.)	1.5E-04	2.8E-05	ND	ND	1.8E-4
Footnotes	(4)	(4)			
Noble Gases					
Beta Air ^(a) (mrad)	3.3E-3	ND	ND	ND	3.3E-3
Footnotes	(5)				
Gamma Air ^(a) (mrad)	7.8E-6	ND	ND	ND	7.8E-6
Footnotes	(5)				

ND: No dose determined based on no recorded effluents.

(a) The numbered footnotes indicate the age group, organ, and location of the dose receptor, where appropriate.

- | | |
|------------------|-------------------------------------|
| (1) Adult | (4) Child/All Organs/SE, 700 meters |
| (2) Adult/GI-LLI | (5) 670 meters SE |
| (3) Adult/Liver | |

(b) "Maximum" dose for the year is the sum of the maximum doses for each quarter. This results in a conservative yearly dose estimate, but still well within the limits of 10CFR 50, Appendix 1.

TABLE 2

**Maine Yankee Atomic Power Station
Maximum Annual Dose Commitments from Direct External Radiation,
Plus Liquid and Gaseous Effluents for 2004^(a)
(40CFR190)**

Pathway	Total Body (mrem)	Maximum Organ (mrem)	Thyroid (mrem)
Direct External	6.00E-02	6.00E-02	6.00E-02
Liquids	1.07E-01	2.45E-01	7.47E-02
Gases	3.95E-06	3.95E-06	3.95E-06
Annual Total ^(b)	1.67E-01	3.05E-01	1.35E-01

- (a) The location of maximum individual doses from combined direct radiation plus dose contributions from liquid and gaseous effluent (including noble gas) corresponds to exposed mud flats at low tide in Bailey Cove, west of the plant site.
- (b) For any member of the public, EPA radiation protection standards (40CFR190) established annual dose limits of 25 mrem to the total body and any organ (except the thyroid, which has a dose limit of 75 mrem).

TABLE 3**Receptor Locations for Maine Yankee**

Sector	Nearest Receptor ^(a) (Meters)	Nearest Resident ^(b) (Meters)	Nearest Garden ^(b) (Meters)	Nearest Milk Animal ^(b) (Meters)
N	450	1260	--	--
NNE	800	2230	2400	2650 (cows)
NE	800	1270	1470	--
ENE	850	920	1250	--
E	730	900	900	--
ESE	670	700	--	--
SE	670	700	900	--
SSE	820	900	900	--
S	1310	1700	1700	--
SSW	800	3000	5000	--
SW	500	1500	4000	--
WSW	450	960	1940	1880 (cows)
W	400	810	2710	--
WNW	400	1900	--	--
NW	400	1930	1930	--
NNW	500	1060	1180	--

- (a) The nearest receptor location is taken to be the site boundary for all sectors except the NNE through SSW sectors. The actual site boundary for each of these sectors is located next to Back River (water boundary). The receptor locations noted represent the closest dry land points beyond the site boundary where a 100% occupancy time is assumed. Other site boundaries bordered by water, and mud flats exposed at low tides, which may be worked by worm diggers, have occupancy factors applied equal to 325 hours/year (MY ODCM).
- (b) The location(s) given are based on data from the Maine Yankee 2004 Land Use Census.

TABLE 4

Usage Factors for Various Liquid Pathways at Maine Yankee
(From Regulatory Guide 1.109, Table E-5, except as noted.
Zero where no pathway exists.)

Age	Veg. (kg/y)	Leafy Veg. (kg/y)	Milk (l/y)	Meat (kg/y)	Fish (kg/y)	Invert. (kg/y)	Potable Water (l/y)	Shoreline (hr/y)
Adult	0.00	0.00	0.00	0.00	21.00	5.00	0.00	325.00 ^(a)
Teen	0.00	0.00	0.00	0.00	16.00	3.80	0.00	67.00
Child	0.00	0.00	0.00	0.00	6.90	1.70	0.00	14.00
Infant	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

- (a) Regional shoreline use associated with mud flats - Maine Yankee Atomic Power Station Environmental Report, Supplement Number One, Volume 1, Section 5.2.2, Maine Yankee Atomic Power Company.

TABLE 5**Usage Factors for Various Gaseous Pathways at Maine Yankee
(From Regulatory Guide 1.109, Table E-5)**

Age Group	Veg. (kg/y)	Leafy Veg. (kg/y)	Milk (l/y)	Meat (kg/y)	Inhalation (m ³ /y)
Adult	520	64	310	110	8,000
Teen	630	42	400	65	8,000
Child	520	26	330	41	3,700
Infant	0	0	330	0	1,400

TABLE 6

**Environmental Parameters for Gaseous Effluents at Maine Yankee
(Derived from Regulatory Guide 1.109)**

Variable		Vegetables		Cow Milk		Goat Milk		Meat	
		Stored	Leafy	Pasture	Stored	Pasture	Stored	Pasture	Stored
YV	Agricultural Productivity (kg/m ²)	2.	2.	0.75	2.	0.75	2.	0.75	2.
P	Soil Surface Density (kg/m ²)	240.	240.	240.	240.	240.	240.	240.	240.
T	Transport Time to User (hrs)			48.	48.	48.	48.	480.	480.
TB	Soil Exposure Time ^(a) (hrs)	131400.	131400.	131400.	131400.	131400.	131400.	131400.	131400.
TF	Crop Exposure Time to Plume (hrs)	1440.	1440.	720.	1440.	720.	1440.	720.	1440.
TH	Holdup After Harvest (hrs)	1440.	24.	0.	2160.	0.	2160.	0.	2160.
QF	Animals Daily Feed (kg/day)			50.	50.	6.	6.	50.	50.
FP	Fraction of Year on Pasture ^(b)			0.50		0.50		0.50	
FS	Fraction Pasture Feed When on Pasture ^(c)			1.		1.		1.	
FG	Fraction of Stored Vegetables Grown in Garden	0.76							
FL	Fraction of Leafy Vegetables Grown in Garden		1.0						
FI	Fraction Elemental Iodine = 0.5								
H	Absolute Humidity = 5.6 ^(d)								

- (a) For Method II dose/dose rate analyses of identified radioactivity releases of less than one year, the soil exposure time for that release may be set at 8,760 hours (one year) for all pathways.
- (b) For Method II dose/dose rate analyses performed for releases occurring during the first or fourth calendar quarters, the fraction of time animals are assumed to be on pasture is zero (nongrowing season). For the second and third calendar quarters, the fraction of time on pasture (FP) will be set at 1.0. FP may also be adjusted for specific farm locations if this information is so identified and reported as part of the land use census.
- (c) For Method II analyses, the fraction of pasture feed while on pasture may be set to less than 1.0 specific farm locations if this information is so identified and reported as part of the land use census.
- (d) For all Method II analyses, an absolute humidity value equal to 5.6 (gm/m³) shall be used to reflect conditions in the Northeast (Reference: Health Physics Journal, Volume 39 (August), 1980; Pages 318-320, Pergamon Press).

TABLE A

MAINE YANKEE JAN86-DEC90 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 3.40

SPEED MPH	WIND DIRECTION FROM																	TOTAL	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL		
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	6	6	16	26	19	8	11	13	10	3	10	1	2	0	2	1	0	134	
(1)	.44	.44	1.18	1.92	1.40	.59	.81	.96	.74	.22	.74	.07	.15	.00	.15	.07	.00	9.88	
(2)	.02	.02	.04	.07	.05	.02	.03	.03	.03	.01	.03	.00	.01	.00	.01	.00	.00	.34	
4-7	31	32	64	36	13	2	11	37	125	70	16	21	20	10	18	17	0	523	
(1)	2.29	2.36	4.72	2.65	.96	.15	.81	2.73	9.22	5.16	1.18	1.55	1.47	.74	1.33	1.25	.00	38.57	
(2)	.08	.08	.16	.09	.03	.01	.03	.09	.31	.18	.04	.05	.05	.03	.05	.04	.00	1.31	
8-12	33	15	23	2	1	0	0	9	41	96	18	12	26	29	56	63	0	424	
(1)	2.43	1.11	1.70	.15	.07	.00	.00	.66	3.02	7.08	1.33	.88	1.92	2.14	4.13	4.65	.00	31.27	
(2)	.08	.04	.06	.01	.00	.00	.00	.02	.10	.24	.05	.03	.07	.07	.14	.16	.00	1.06	
13-18	16	6	3	0	1	0	0	0	3	13	1	6	3	25	98	56	0	231	
(1)	1.18	.44	.22	.00	.07	.00	.00	.00	.22	.96	.07	.44	.22	1.84	7.23	4.13	.00	17.04	
(2)	.04	.02	.01	.00	.00	.00	.00	.00	.01	.03	.00	.02	.01	.06	.25	.14	.00	.58	
19-24	4	0	0	0	0	0	0	0	0	0	0	0	0	2	28	9	0	43	
(1)	.29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15	2.06	.66	.00	3.17	
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.07	.02	.00	.11	
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.07	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
ALL SPEEDS	90	59	106	64	34	10	22	59	179	182	45	40	51	66	203	146	0	1356	
(1)	6.64	4.35	7.82	4.72	2.51	.74	1.62	4.35	13.20	13.42	3.32	2.95	3.76	4.87	14.97	10.77	.00	100.00	
(2)	.23	.15	.27	.16	.09	.03	.06	.15	.45	.46	.11	.10	.13	.17	.51	.37	.00	3.40	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
 (2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
 C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE B

MAINE YANKEE JAN86-DEC90 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 1.44

SPEED MPH	WIND DIRECTION FROM																TOTAL	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		VRBL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	2	2	6	5	1	3	5	4	1	2	0	2	1	2	0	0	
(1)	.17	.35	.35	1.05	.87	.17	.52	.87	.70	.17	.17	.35	.00	.35	.17	.35	.00	
(2)	.00	.01	.01	.02	.01	.00	.01	.01	.01	.00	.00	.01	.00	.01	.00	.01	.00	
4-7	6	14	20	15	6	5	5	19	48	27	8	5	7	8	7	10	0	
(1)	1.05	2.44	3.49	2.62	1.05	.87	.87	3.32	8.38	4.71	1.40	.87	1.22	1.40	1.22	1.75	.00	
(2)	.02	.04	.05	.04	.02	.01	.01	.05	.12	.07	.02	.01	.02	.02	.02	.03	.00	
8-12	10	8	10	2	1	0	0	7	18	36	10	5	13	18	25	30	0	
(1)	1.75	1.40	1.75	.35	.17	.00	.00	1.22	3.14	6.28	1.75	.87	2.27	3.14	4.36	5.24	.00	
(2)	.03	.02	.03	.01	.00	.00	.00	.02	.05	.09	.03	.01	.03	.05	.06	.08	.00	
13-18	4	2	5	1	0	0	0	0	4	7	2	4	7	14	36	18	0	
(1)	.70	.35	.87	.17	.00	.00	.00	.00	.70	1.22	.35	.70	1.22	2.44	6.28	3.14	.00	
(2)	.01	.01	.01	.00	.00	.00	.00	.00	.01	.02	.01	.01	.02	.04	.09	.05	.00	
19-24	5	0	0	0	0	0	0	1	0	0	0	0	1	3	10	5	0	
(1)	.87	.00	.00	.00	.00	.00	.00	.17	.00	.00	.00	.00	.17	.52	1.75	.87	.00	
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.01	.00	.00	
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.52	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	
ALL SPEEDS	26	26	37	24	12	6	8	32	74	71	21	16	28	45	79	68	0	
(1)	4.54	4.54	6.46	4.19	2.09	1.05	1.40	5.58	12.91	12.39	3.66	2.79	4.89	7.85	13.79	11.87	.00	
(2)	.07	.07	.09	.06	.03	.02	.02	.08	.19	.18	.05	.04	.07	.11	.20	.17	.00	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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 C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE C

MAINE YANKEE JAN86-DEC90 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 4.24

SPEED MPH	WIND DIRECTION FROM																TOTAL	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WRW	NW	NNW		VRBL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	5	9	11	11	11	6	10	11	13	8	5	3	3	2	1	4	0	
(1)	.30	.53	.65	.65	.65	.35	.59	.65	.77	.47	.30	.18	.18	.12	.06	.24	.00	
(2)	.01	.02	.03	.03	.03	.02	.03	.03	.03	.02	.01	.01	.01	.01	.00	.01	.00	
4-7	34	42	54	29	12	8	21	41	128	72	28	20	22	18	27	45	0	
(1)	2.01	2.48	3.19	1.71	.71	.47	1.24	2.42	7.56	4.25	1.65	1.18	1.30	1.06	1.59	2.66	.00	
(2)	.09	.11	.14	.07	.03	.02	.05	.10	.32	.18	.07	.05	.06	.05	.07	.11	.00	
8-12	47	41	26	6	4	3	4	16	47	85	28	15	28	61	91	75	0	
(1)	2.78	2.42	1.54	.35	.24	.18	.24	.95	2.78	5.02	1.65	.89	1.65	3.60	5.38	4.43	.00	
(2)	.12	.10	.07	.02	.01	.01	.01	.04	.12	.21	.07	.04	.07	.15	.23	.19	.00	
13-18	25	10	3	0	0	0	0	2	5	12	1	5	16	43	119	56	0	
(1)	1.48	.59	.18	.00	.00	.00	.00	.12	.30	.71	.06	.30	.95	2.54	7.03	3.31	.00	
(2)	.06	.03	.01	.00	.00	.00	.00	.01	.01	.03	.00	.01	.04	.11	.30	.14	.00	
19-24	2	2	0	0	0	0	0	0	0	1	0	0	0	10	60	17	0	
(1)	.12	.12	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00	.00	.59	3.54	1.00	.00	
(2)	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.15	.04	.00	
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	1	0	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24	.47	.06	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.00	.00	
ALL SPEEDS	113	104	94	46	27	17	35	70	193	178	62	43	69	138	306	198	0	
(1)	6.67	6.14	5.55	2.72	1.59	1.00	2.07	4.13	11.40	10.51	3.66	2.54	4.08	8.15	18.07	11.70	.00	
(2)	.28	.26	.24	.12	.07	.04	.09	.18	.48	.45	.16	.11	.17	.35	.77	.50	.00	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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 C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE D

MAINE YANKEE JAN86-DEC90 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

SPEED MPH	35.0 FT WIND DATA				STABILITY CLASS D				CLASS FREQUENCY (PERCENT) = 44.72										TOTAL
	WIND DIRECTION FROM																		
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL		
CALM	0	0	0	1	1	1	0	0	2	0	0	1	2	4	0	0	14		
(1)	.00	.00	.00	.01	.01	.01	.00	.00	.01	.00	.00	.01	.01	.01	.02	.00	.08		
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.01	.01	.01	.00	.04		
C-3	119	97	148	179	218	200	211	266	219	108	113	97	105	92	102	109	0	2383	
(1)	.67	.54	.83	1.00	1.22	1.12	1.18	1.49	1.23	.61	.63	.54	.59	.52	.57	.61	.00	13.35	
(2)	.30	.24	.37	.45	.55	.50	.53	.67	.55	.27	.28	.24	.26	.23	.26	.27	.00	5.97	
4-7	524	497	481	351	234	279	356	739	968	642	469	305	240	228	267	391	0	6971	
(1)	2.94	2.79	2.70	1.97	1.31	1.56	2.00	4.14	5.42	3.60	2.63	1.71	1.34	1.28	1.50	2.19	.00	39.07	
(2)	1.31	1.25	1.21	.88	.59	.70	.89	1.85	2.43	1.61	1.18	.76	.60	.57	.67	.98	.00	17.47	
8-12	542	445	255	110	122	129	163	400	653	618	325	150	164	429	705	530	0	5740	
(1)	3.04	2.49	1.43	.62	.68	.72	.91	2.24	3.66	3.46	1.82	.84	.92	2.40	3.95	2.97	.00	32.17	
(2)	1.36	1.12	.64	.28	.31	.32	.41	1.00	1.64	1.55	.81	.38	.41	1.08	1.77	1.33	.00	14.38	
13-18	179	87	33	19	36	33	25	106	244	104	57	23	33	245	726	318	0	2268	
(1)	1.00	.49	.18	.11	.20	.18	.14	.59	1.37	.58	.32	.13	.18	1.37	4.07	1.78	.00	12.71	
(2)	.45	.22	.08	.05	.09	.08	.06	.27	.61	.26	.14	.06	.08	.61	1.82	.80	.00	5.68	
19-24	18	3	1	1	5	3	2	11	32	6	1	2	2	52	225	64	0	428	
(1)	.10	.02	.01	.01	.03	.02	.01	.06	.18	.03	.01	.01	.01	.29	1.26	.36	.00	2.40	
(2)	.05	.01	.00	.00	.01	.01	.01	.03	.08	.02	.00	.01	.01	.13	.56	.16	.00	1.07	
GT 24	0	0	0	0	2	0	0	1	2	0	0	0	0	3	25	7	0	40	
(1)	.00	.00	.00	.00	.01	.00	.00	.01	.01	.00	.00	.00	.00	.02	.14	.04	.00	.22	
(2)	.00	.00	.00	.00	.01	.00	.00	.00	.01	.00	.00	.00	.00	.01	.06	.02	.00	.10	
ALL SPEEDS	1382	1129	918	661	618	645	757	1523	2120	1478	965	578	546	1051	2054	1419	0	17844	
(1)	7.74	6.33	5.14	3.70	3.46	3.61	4.24	8.54	11.88	8.28	5.41	3.24	3.06	5.89	11.51	7.95	.00	100.00	
(2)	3.46	2.83	2.30	1.66	1.55	1.62	1.90	3.82	5.31	3.70	2.42	1.45	1.37	2.63	5.15	3.56	.00	44.72	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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TABLE E

MAINE YANKEE JAN86-DEC90 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 28.88

SPEED MPH	WIND DIRECTION FROM																	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	
CALM	7	8	1	2	4	3	4	2	2	2	3	5	7	3	5	7	0	65
(1)	.06	.07	.01	.02	.03	.03	.03	.02	.02	.02	.03	.04	.06	.03	.04	.06	.00	.56
(2)	.02	.02	.00	.01	.01	.01	.01	.01	.01	.01	.01	.01	.02	.01	.01	.02	.00	.16
C-3	246	215	204	146	162	153	331	497	402	295	258	273	230	234	264	311	0	4221
(1)	2.13	1.87	1.77	1.27	1.41	1.33	2.87	4.31	3.49	2.56	2.24	2.37	2.00	2.03	2.29	2.70	.00	36.62
(2)	.62	.54	.51	.37	.41	.38	.83	1.25	1.01	.74	.65	.68	.58	.59	.66	.78	.00	10.58
4-7	465	281	152	52	28	66	147	463	648	618	309	283	236	342	453	484	0	5027
(1)	4.03	2.44	1.32	.45	.24	.57	1.28	4.02	5.62	5.36	2.68	2.46	2.05	2.97	3.93	4.20	.00	43.61
(2)	1.17	.70	.38	.13	.07	.17	.37	1.16	1.62	1.55	.77	.71	.59	.86	1.14	1.21	.00	12.60
8-12	110	66	22	7	4	13	30	117	230	271	75	30	42	140	313	167	0	1637
(1)	.95	.57	.19	.06	.03	.11	.26	1.02	2.00	2.35	.65	.26	.36	1.21	2.72	1.45	.00	14.20
(2)	.28	.17	.06	.02	.01	.03	.08	.29	.58	.68	.19	.08	.11	.35	.78	.42	.00	4.10
13-18	26	15	0	0	5	14	19	54	96	41	7	1	6	39	92	19	0	434
(1)	.23	.13	.00	.00	.04	.12	.16	.47	.83	.36	.06	.01	.05	.34	.80	.16	.00	3.77
(2)	.07	.04	.00	.00	.01	.04	.05	.14	.24	.10	.02	.00	.02	.10	.23	.05	.00	1.09
19-24	2	1	0	0	1	6	15	24	28	4	0	0	1	6	26	0	0	114
(1)	.02	.01	.00	.00	.01	.05	.13	.21	.24	.03	.00	.00	.01	.05	.23	.00	.00	.99
(2)	.01	.00	.00	.00	.00	.02	.04	.06	.07	.01	.00	.00	.00	.02	.07	.00	.00	.29
GT 24	0	0	0	0	0	0	7	14	6	0	0	0	0	0	1	0	0	28
(1)	.00	.00	.00	.00	.00	.00	.06	.12	.05	.00	.00	.00	.00	.00	.01	.00	.00	.24
(2)	.00	.00	.00	.00	.00	.00	.02	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.07
ALL SPEEDS	856	586	379	207	204	255	553	1171	1412	1231	652	592	522	764	1154	988	0	11526
(1)	7.43	5.08	3.29	1.80	1.77	2.21	4.80	10.16	12.25	10.68	5.66	5.14	4.53	6.63	10.01	8.57	.00	100.00
(2)	2.15	1.47	.95	.52	.51	.64	1.39	2.93	3.54	3.08	1.63	1.48	1.31	1.91	2.89	2.48	.00	28.88

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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 C- CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE F

MAINE YANKEE JAN86-DEC90 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 9.10

SPEED MPH	WIND DIRECTION FROM																TOTAL	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		VRBL
CALM	6	8	9	5	5	3	1	6	3	6	6	7	11	13	8	7	0	104
(1)	.17	.22	.25	.14	.14	.08	.03	.17	.08	.17	.17	.19	.30	.36	.22	.19	.00	2.86
(2)	.02	.02	.02	.01	.01	.01	.00	.02	.01	.02	.02	.02	.03	.03	.02	.02	.00	.26
C-3	188	151	158	135	89	78	127	184	166	161	113	127	182	194	305	289	0	2647
(1)	5.18	4.16	4.35	3.72	2.45	2.15	3.50	5.07	4.57	4.43	3.11	3.50	5.01	5.34	8.40	7.96	.00	72.90
(2)	.47	.38	.40	.34	.22	.20	.32	.46	.42	.40	.28	.32	.46	.49	.76	.72	.00	6.63
4-7	111	45	20	4	0	1	5	22	53	43	22	50	49	72	134	197	0	828
(1)	3.06	1.24	.55	.11	.00	.03	.14	.61	1.46	1.18	.61	1.38	1.35	1.98	3.69	5.43	.00	22.80
(2)	.28	.11	.05	.01	.00	.00	.01	.06	.13	.11	.06	.13	.12	.18	.34	.49	.00	2.07
8-12	3	0	1	0	0	1	1	8	3	4	3	2	3	4	15	3	0	51
(1)	.08	.00	.03	.00	.00	.03	.03	.22	.08	.11	.08	.06	.08	.11	.41	.08	.00	1.40
(2)	.01	.00	.00	.00	.00	.00	.00	.02	.01	.01	.01	.01	.01	.01	.04	.01	.00	.13
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.03
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	308	204	188	144	94	83	134	220	225	214	144	186	245	284	462	496	0	3631
(1)	8.48	5.62	5.18	3.97	2.59	2.29	3.69	6.06	6.20	5.89	3.97	5.12	6.75	7.82	12.72	13.66	.00	100.00
(2)	.77	.51	.47	.36	.24	.21	.34	.55	.56	.54	.36	.47	.61	.71	1.16	1.24	.00	9.10

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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 C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE G

MAINE YANKEE JAN86-DEC90 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

SPEED MPH	35.0 FT WIND DATA																STABILITY CLASS G	CLASS FREQUENCY (PERCENT) =	8.22
	WIND DIRECTION FROM																		
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL	
CALM	17	13	15	12	7	3	6	2	5	8	5	7	11	11	12	9	0	143	
(1)	.52	.40	.46	.37	.21	.09	.18	.06	.15	.24	.15	.21	.34	.34	.37	.27	.00	4.36	
(2)	.04	.03	.04	.03	.02	.01	.02	.01	.01	.02	.01	.02	.03	.03	.03	.02	.00	.36	
C-3	295	257	245	151	65	37	39	45	62	54	60	69	104	158	467	543	0	2651	
(1)	8.99	7.83	7.46	4.60	1.98	1.13	1.19	1.37	1.89	1.65	1.83	2.10	3.17	4.81	14.23	16.54	.00	80.77	
(2)	.74	.64	.61	.38	.16	.09	.10	.11	.16	.14	.15	.17	.26	.40	1.17	1.36	.00	6.64	
4-7	26	13	21	7	2	2	0	2	6	8	5	7	14	30	167	175	0	485	
(1)	.79	.40	.64	.21	.06	.06	.00	.06	.18	.24	.15	.21	.43	.91	5.09	5.33	.00	14.78	
(2)	.07	.03	.05	.02	.01	.01	.00	.01	.02	.02	.01	.02	.04	.08	.42	.44	.00	1.22	
8-12	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	3	
(1)	.03	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.09	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
ALL SPEEDS	339	283	281	170	74	42	46	49	73	70	70	83	129	199	647	727	0	3282	
(1)	10.33	8.62	8.56	5.18	2.25	1.28	1.40	1.49	2.22	2.13	2.13	2.53	3.93	6.06	19.71	22.15	.00	100.00	
(2)	.85	.71	.70	.43	.19	.11	.12	.12	.18	.18	.18	.21	.32	.50	1.62	1.82	.00	8.22	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
 (2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
 C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE H

MAINE YANKEE JAN86-DEC90 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA

STABILITY CLASS ALL

CLASS FREQUENCY (PERCENT) = 100.00

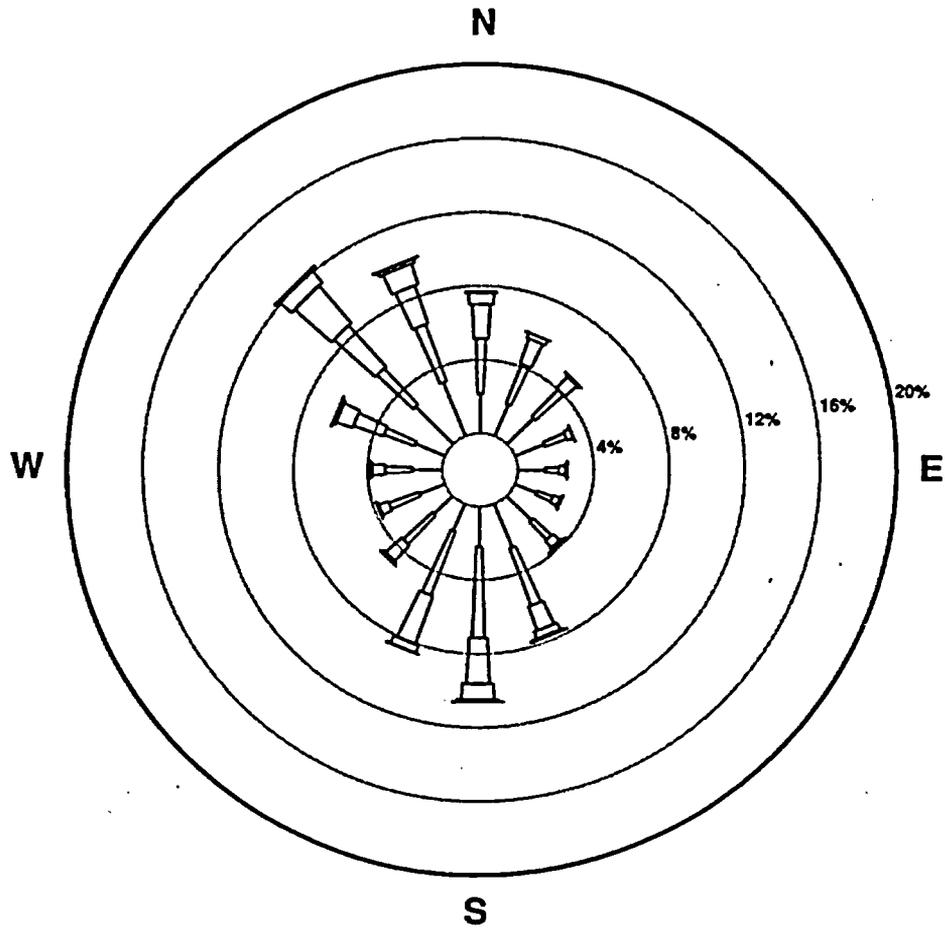
SPEED MPH	WIND DIRECTION FROM																TOTAL	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		VRBL
CALM	30	29	25	20	17	10	11	10	12	16	14	20	31	29	29	23	0	326
(1)	.08	.07	.06	.05	.04	.03	.03	.03	.03	.04	.04	.05	.08	.07	.07	.06	.00	.82
(2)	.08	.07	.06	.05	.04	.03	.03	.03	.03	.04	.04	.05	.08	.07	.07	.06	.00	.82
C-3	860	737	784	654	569	483	732	1021	876	630	560	572	626	682	1142	1259	0	12187
(1)	2.16	1.85	1.96	1.64	1.43	1.21	1.83	2.56	2.20	1.58	1.40	1.43	1.57	1.71	2.86	3.15	.00	30.54
(2)	2.16	1.85	1.96	1.64	1.43	1.21	1.83	2.56	2.20	1.58	1.40	1.43	1.57	1.71	2.86	3.15	.00	30.54
4-7	1197	924	812	494	295	363	545	1323	1976	1480	857	691	588	708	1073	1319	0	14645
(1)	3.00	2.32	2.03	1.24	.74	.91	1.37	3.32	4.95	3.71	2.15	1.73	1.47	1.77	2.69	3.31	.00	36.70
(2)	3.00	2.32	2.03	1.24	.74	.91	1.37	3.32	4.95	3.71	2.15	1.73	1.47	1.77	2.69	3.31	.00	36.70
8-12	746	575	337	127	132	146	199	557	992	1110	459	214	276	681	1206	868	0	8625
(1)	1.87	1.44	.84	.32	.33	.37	.50	1.40	2.49	2.78	1.15	.54	.69	1.71	3.02	2.18	.00	21.61
(2)	1.87	1.44	.84	.32	.33	.37	.50	1.40	2.49	2.78	1.15	.54	.69	1.71	3.02	2.18	.00	21.61
13-18	250	120	44	20	42	47	44	162	352	177	68	39	65	366	1071	467	0	3334
(1)	.63	.30	.11	.05	.11	.12	.11	.41	.88	.44	.17	.10	.16	.92	2.68	1.17	.00	8.35
(2)	.63	.30	.11	.05	.11	.12	.11	.41	.88	.44	.17	.10	.16	.92	2.68	1.17	.00	8.35
19-24	31	6	1	1	6	9	17	36	60	11	1	2	4	74	349	95	0	703
(1)	.08	.02	.00	.00	.02	.02	.04	.09	.15	.03	.00	.01	.01	.19	.87	.24	.00	1.76
(2)	.08	.02	.00	.00	.02	.02	.04	.09	.15	.03	.00	.01	.01	.19	.87	.24	.00	1.76
GT 24	0	0	0	0	2	0	7	15	8	0	0	0	0	7	35	11	0	85
(1)	.00	.00	.00	.00	.01	.00	.02	.04	.02	.00	.00	.00	.00	.02	.09	.03	.00	.21
(2)	.00	.00	.00	.00	.01	.00	.02	.04	.02	.00	.00	.00	.00	.02	.09	.03	.00	.21
ALL SPEEDS	3114	2391	2003	1316	1063	1058	1555	3124	4276	3424	1959	1538	1590	2547	4905	4042	0	39905
(1)	7.80	5.99	5.02	3.30	2.66	2.65	3.90	7.83	10.72	8.58	4.91	3.85	3.98	6.38	12.29	10.13	.00	100.00
(2)	7.80	5.99	5.02	3.30	2.66	2.65	3.90	7.83	10.72	8.58	4.91	3.85	3.98	6.38	12.29	10.13	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
 (2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
 C- CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

FIGURE 1

MAINE YANKEE JAN 1986-DEC 1990

35-FOOT WIND DATA



STABILITY CLASS ALL
CALM WINDS 0.82%

WIND SPEED (MPH)

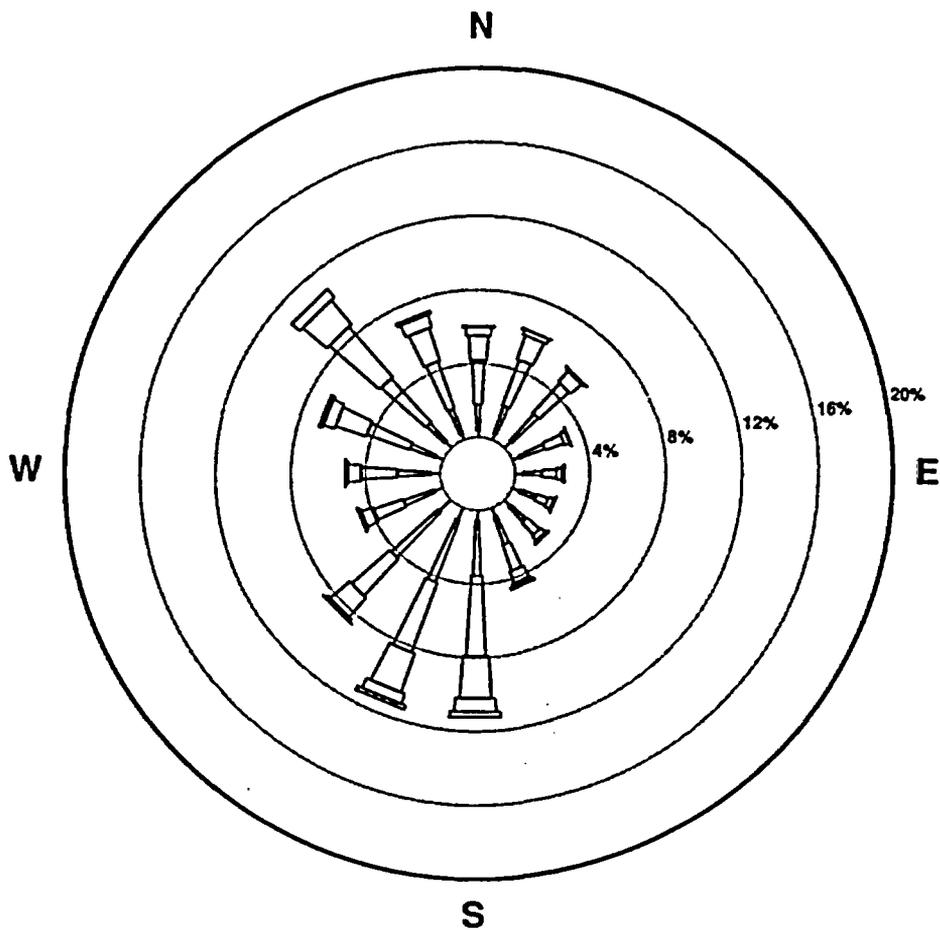
NOTE: Frequencies indicate
direction from which
the wind is blowing.



FIGURE 2

MAINE YANKEE JAN 1986-DEC 1990

197-FOOT WIND DATA



STABILITY CLASS ALL
CALM WINDS 0.13%

WIND SPEED (MPH)

NOTE: Frequencies indicate
direction from which
the wind is blowing.

