

NEW YORK POWER AUTHORITY
JAMES A. FITZPATRICK NUCLEAR POWER PLANT
EFFLUENT AND WASTE DISPOSAL
SEMIANNUAL REPORT

JULY 1983 - DECEMBER 1983

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NEW YORK POWER AUTHORITY
JAMES A. FITZPATRICK NUCLEAR POWER PLANT
EFFLUENT AND WASTE DISPOSAL
SEMIANNUAL REPORT/JULY 1983 - DECEMBER 1983
SUPPLEMENTAL INFORMATION

UTILITY: JAFNPPLICENSEE: NEW YORK POWER AUTHORITY1. Regulatory Limits

a. Fission and activation gases:

$$\frac{Q_s \bar{E} \text{ (JAF Stack)}}{7.00\text{E-}01} + \frac{Q_s \bar{E} \text{ (NMP-1 Stack)}}{5.60\text{E-}01} + \frac{Q_{iv} \text{ (JAF Vents)}}{6.30\text{E+}05\text{MPC}_i} \leq 1$$

Where: Q_s is stack release rate, Ci/sec \bar{E} is the average energy of release, MeV Q_{iv} is the release rate, Ci/sec, of radioisotope i from building vents MPC_i is defined by Col. 1, Table II of App. B to 10 CFR 20

b,c. Halogens and particulates, half-lives >8 days:

$$\frac{Q_s \text{ (JAF Stack)}}{2.60\text{E-}06} + \frac{Q_s \text{ (NMP-1 Stack)}}{2.30\text{E-}06} + \frac{Q_{iv} \text{ (JAF Vents)}}{8.90\text{E-}08} \leq 1$$

d. Liquid effluents:

- (1) The radioactivity release concentration in the discharge tunnel shall not exceed the values specified in 10 CFR 20, Appendix B, for unrestricted areas.
- (2) The cumulative discharge of radioactive liquid effluents, excluding tritium and noble gases, shall not exceed 10 curies during any calendar quarter.

SUPPLEMENTAL INFORMATION (continued)

2. Maximum Permissible Concentrations

a. Fission and activation gases:

<u>Nuclide</u>	<u>MPC ($\mu\text{Ci/cc}$)</u>	<u>Nuclide</u>	<u>MPC ($\mu\text{Ci/cc}$)</u>
Kr-85	3.00E-07	Xe-131m	4.00E-07
Kr-85m	1.00E-07	Xe-133	3.00E-07
Kr-87	2.00E-08	Xe-133m	3.00E-07
Kr-88	2.00E-08	Xe-135	1.00E-07
N-13	3.00E-08	Xe-135m	3.00E-08
Ar-41	4.00E-08	Xe-138	3.00E-08

b. Iodines: (Not applicable)

c. Particulates, half-lives >8 days: (Not applicable)

d. Liquid effluents:

(1)	2.48E-05 $\mu\text{Ci/ml}$	Quarter 3
(2)	6.58E-06 $\mu\text{Ci/ml}$	Quarter 4

3. <u>Average Energy, \bar{E}</u>	<u>Unit</u>	<u>Quarter 3</u>	<u>Quarter 4</u>
a. Elevated release:	MeV	5.75E-01	7.37E-01
b. Ground level release:	MeV	5.27E-01	8.00E-01

SUPPLEMENTAL INFORMATION (continued)

4. Measurements and Approximations of Total Radioactivity

- a. Fission and activation gases: Continuous monitor on each release path calibrated to Marinelli grab sample analyzed by Ge(Li) spectrometer; bubbler grab sample analyzed for tritium.
- b. Iodines: Ge(Li) analysis of charcoal cartridge and particulate filter on each release path.
- c. Particulates: Ge(Li) analysis of particulate filter on each release path.
- d. Liquid effluents: Ge(Li) analysis of each batch discharged, except composite analysis for Sr-89, Sr-90, and tritium.

5. Batch Releases

Liquid:	Quarter 3	Quarter 4
(1) Number of batch releases:	287	18
(2) Total time period for batch releases:	199.3 hrs.	53.7 hrs.
(3) Maximum time period for batch release:	2.2 hrs.	47 hrs.
(4) Average time period for batch release:	0.7 hrs.	2.98 hrs.
(5) Minimum time period for batch release:	0.17 hrs.	0.22 hrs.
(6) Average stream flow: (Not applicable)		

6. Abnormal Releases

a. Liquid:	Quarter 3	Quarter 4
(1) Number of releases:	2	None
(2) Total activity released: Ci	2.76E-06	None
b. Gaseous:		
(1) Number of releases:	None	None
(2) Total activity released:	None	None

TABLE 1A

NEW YORK POWER AUTHORITY
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GASEOUS EFFLUENTS--SUMMATION OF ALL RELEASES

	UNIT	QUARTER 3	QUARTER 4	EST. TOTAL ERROR %
A. FISSION AND ACTIVATION GASES				
1. Total release	Ci	4.92E+03	2.74E+04	1.00E+01
2. Average release rate for period	μCi/sec	6.19E+02	3.45E+03	
3. Tech. Spec. limit	%	*	*	
B. IODINES				
1. Total iodine-131	Ci	2.22E-02	1.65E-01	1.00E+01
2. Average release rate for period	μCi/sec	2.79E-03	2.08E-02	
3. Tech. Spec. limit	%	*	*	
C. PARTICULATES				
1. Particulates with half-lives >8 days	Ci	5.70E-03	2.98E-02	1.00E+01
2. Average release rate for period	μCi/sec	7.17E-04	3.75E-03	
3. Tech. Spec. limit	%	*	*	
4. Gross alpha radioactivity	Ci	3.08E-06	1.92E-05	1.00E+01
D. TRITIUM				
1. Total release	Ci	1.22E 00	3.69E 00	1.00E+01
2. Average release rate for period	μCi/sec	1.54E-01	4.64E-01	
*E. PERCENT OF TECHNICAL SPECIFICATION LIMITS				
FISSION AND ACTIVATION GASES				
1. JAF elevated release	%	3.20E-02	3.50E-01	
2. NMP-1 elevated release	%	2.06E-04	1.12E-03	
3. JAF ground level release	%	6.22E-01	5.57E-01	
4. Total site release	%	6.54E-01	9.08E-01	
HALOGENS AND PARTICULATES WITH HALF-LIVES >8 DAYS				
5. JAF elevated release	%	8.00E-02	7.20E-01	
6. NMP-1 elevated release	%	2.50E-02	1.74E-02	
7. JAF ground level release	%	1.06E 00	2.73E 00	
8. Total site release	%	1.17E 00	3.47E 00	

TABLE 1B

NEW YORK POWER AUTHORITY
JAMES A. FITZPATRICK NUCLEAR POWER PLANT
EFFLUENT AND WASTE DISPOSAL
SEMIANNUAL REPORT/JULY 1983 - DECEMBER 1983
GASEOUS EFFLUENTS--ELEVATED RELEASE

CONTINUOUS MODE			
NUCLIDES RELEASED	UNIT	QUARTER 3	QUARTER 4
1. <u>Fission gases</u>			
Nitrogen-13	Ci	2.77E+01	5.84E+02
Krypton-85m	Ci	1.67E+02	8.14E+02
Krypton-87	Ci	3.67E+02	1.86E+03
Krypton-88	Ci	4.62E+02	1.95E+03
Xenon-131m	Ci	7.39E+02	2.21E+03
Xenon-133	Ci	6.80E+01	3.94E+02
Xenon-133m	Ci	1.63E+01	5.77E+01
Xenon-135	Ci	1.16E+03	5.32E+03
Xenon-135m	Ci	2.06E+01	2.95E+03
Xenon-138	Ci	5.18E+01	1.04E+04
2. <u>Iodines</u>			
Iodine-131	Ci	1.53E-02	1.47E-01
Iodine-133	Ci	1.28E 00	1.05E-01
Iodine-135	Ci	1.25E-01	1.49E-01
3. <u>Particulates</u>			
Manganese-54	Ci	1.09E-03	9.88E-04
Cobalt-58	Ci	ND	6.51E-05
Cobalt-60	Ci	1.01E-05	3.15E-06
Strontium-89	Ci	8.98E-07	2.31E-03
Strontium-90	Ci	ND	1.39E-05
Zirconium-Niobium-95	Ci	ND	ND
Cesium-134	Ci	4.08E-04	ND
Cesium-137	Ci	1.37E-04	1.83E-04
Barium-Lanthanum-140	Ci	2.61E-04	1.74E-02

There are no batch releases for this period.

ND - None detected.

TABLE 1C

NEW YORK POWER AUTHORITY
JAMES A. FITZPATRICK NUCLEAR POWER PLANT
EFFLUENT AND WASTE DISPOSAL
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GASEOUS EFFLUENTS--GROUND LEVEL RELEASES

CONTINUOUS MODE

NUCLIDES RELEASED	UNIT	QUARTER 3	QUARTER 4
1. <u>Fission gases</u>			
Nitrogen-13	Ci	ND	1.10E+02
Krypton-85m	Ci	ND	2.22E+01
Krypton-87	Ci	9.89E 00	3.43E+01
Krypton-88	Ci	5.08E+02	3.20E+01
Xenon-133	Ci	3.20E+02	3.21E+01
Xenon-133m	Ci	8.79E+02	ND
Xenon-135	Ci	1.20E+02	9.69E+01
Xenon-135m	Ci	1.95E 00	1.59E+02
Xenon-138	Ci	ND	4.28E+02
2. <u>Iodines</u>			
Iodine-131	Ci	6.93E-03	1.75E-02
Iodine-133	Ci	6.92E-02	6.45E-02
Iodine-135	Ci	8.44E-02	6.43E-02
3. <u>Particulates</u>			
Chromium-51	Ci	1.41E-03	1.83E-03
Manganese-54	Ci	2.26E-04	2.23E-04
Cobalt-58	Ci	1.74E-05	1.90E-05
Cobalt-60	Ci	1.32E-03	7.31E-04
Zinc-65	Ci	1.03E-04	ND
Strontium-89	Ci	9.04E-06	2.84E-03
Strontium-90	Ci	1.19E-06	8.01E-05
Zirconium-Niobium-95	Ci	1.24E-05	ND
Cesium-134	Ci	1.40E-05	5.66E-06
Cesium-137	Ci	3.13E-05	7.94E-06
Barium-Lanthanum-140	Ci	6.53E-04	3.10E-03
Cerium-141	Ci	ND	3.56E-05

There are no batch releases for this period.

ND - None detected.

TABLE 2A

NEW YORK POWER AUTHORITY
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 SEMIANNUAL REPORT/JULY 1983 - DECEMBER 1983
 LIQUID EFFLUENTS--SUMMATION OF ALL RELEASES

	UNIT	QUARTER 3	QUARTER 4	EST. TOTAL ERROR %
A. FISSION AND ACTIVATION PRODUCTS				
1. Total release (not including tritium and alpha)	Ci	5.64E-01	4.63E-03	1.00E+01
2. Average diluted concentration during period	µCi/ml	4.78E-09	2.32E-11	
3. Applicable limit	%	1.93E-02	3.53E-04	
B. TRITIUM				
1. Total release	Ci	2.62E 00	1.96E-02	1.00E+01
2. Average diluted concentration during period	µCi/ml	2.22E-08	9.87E-11	
3. Applicable limit	%	7.40E-04	3.29E-06	
C. DISSOLVED AND ENTRAINED GASES				
1. Total release	Ci	8.65E-04	8.22E-05	1.00E+01
2. Average diluted concentration during period	µCi/ml	7.33E-12	4.13E-13	
3. Applicable limit	%	7.33E-16	4.13E-17	
D. GROSS ALPHA RADIOACTIVITY				
Total release	Ci	3.99E-03	6.85E-05	1.00E+01
E. VOLUME OF WASTE RELEASED (PRIOR TO DILUTION)				
	Liters	7.21E+06	5.51E+04	1.00E+01
F. VOLUME OF DILUTION WATER USED DURING PERIOD				
	Liters	1.18E+11	1.99E+11	1.00E+01

TABLE 2B

NEW YORK POWER AUTHORITY
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 SEMIANNUAL REPORT/JULY 1983 - DECEMBER 1983
 LIQUID EFFLUENTS

BATCH MODE			
NUCLIDES RELEASED	UNIT	QUARTER 3	QUARTER 4
Silver-110m	Ci	6.42E-05	ND
Cesium-134	Ci	4.11E-02	9.71E-05
Cesium-137	Ci	5.94E-02	1.76E-04
Iodine-131	Ci	3.71E-04	8.86E-05
Iodine-133	Ci	3.54E-04	2.56E-04
Iodine-135	Ci	2.93E-04	3.66E-05
Barium-Lanthanum-140	Ci	2.82E-04	1.33E-06
Cobalt-58	Ci	2.21E-02	4.19E-05
Cobalt-60	Ci	3.38E-01	3.28E-03
Iron-59	Ci	4.09E-03	3.33E-05
Zinc-65	Ci	4.78E-03	5.43E-05
Manganese-54	Ci	8.75E-02	4.10E-04
Chromium-51	Ci	1.07E-03	4.90E-05
Antimony-124	Ci	7.54E-04	4.64E-07
Molybdenum-99	Ci	7.06E-04	ND
Technetium-99m	Ci	2.24E-05	ND
Cerium-141	Ci	8.13E-05	ND
Zirconium-Niobium-95	Ci	1.21E-04	ND
Sodium-24	Ci	6.07E-04	ND
Arsenic-76	Ci	ND	3.40E-06
Neptunium-239	Ci	2.97E-04	ND
Xenon-133	Ci	3.56E-04	3.07E-05
Xenon-135	Ci	4.73E-04	5.16E-05
Krypton-85m	Ci	3.52E-05	ND
Strontium-90	Ci	1.37E-04	1.05E-06

There are no continuous mode discharges for this period.

ND - None detected.

TABLE 3

NEW YORK POWER AUTHORITY
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EFFLUENT AND WASTE DISPOSAL
SEMIANNUAL REPORT/JULY 1983 - DECEMBER 1983
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (NOT IRRADIATED FUEL)

	UNIT	SIX-MONTH PERIOD	EST. TOTAL ERROR %
1. <u>Type of Waste</u>			
a. Spent resins, filter sludges	m ³	1.14E+02	1.00E+01
evaporator bottoms, etc.	Ci	2.84E+02	1.00E+01
b. Dry compressible waste,	m ³	2.96E+02	1.00E+01
contaminated equipment, etc.	Ci	3.09E+01	1.00E+01
c. Irradiated components (None)			
d. Other (None)			
2. <u>Estimate of Major Nuclide Composition</u>			
Cobalt-60		67.2 %	1.00E+01
Manganese-54		11.1 %	
Cobalt-58		1.7 %	
Cesium-137		11.6 %	
Zinc-65		1.1 %	
Cesium-134		7.4 %	
Cerium-144		0.6 %	

3. Solid Waste Disposition

SHIPMENT	QTY.	TRANSPORTATION MODE	DESTINATION
Type a and b	29	Truck	Barnwell, SC
Type b	10	Truck	Richland, WA

B. IRRADIATED FUEL SHIPMENTS (NONE)

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REPORT NOTES

1) Table 1A, Section E Percent of Technical Specification Limit

Subsections 5 and 7, halogens and particulates with half-lives >8 days calculated as I-131 equivalents in accordance with Technical Specifications Appendix B, 2.3.B.2.

2) Table 1B, Section 3 Particulates

Fourth Quarter strontium-89 and strontium-90 releases calculated from Second Quarter Sample Data.

3) Table 2B Nuclides Released

Fourth Quarter strontium-89 and strontium 90 releases calculated from Third Quarter Sample Data.

4) If actual sample data alters the report data significantly (changes percent of allowable release limits), the report will be revised and redistributed.

APPENDIX A*

* Appendix A is submitted in compliance with Section 4.3.5 of the James A. FitzPatrick Nuclear Power Plant Environmental Technical Specifications. Section 4.3.5 requires that all deviations from the environmental sampling schedule shall be described in the semiannual reports.

RADIOLOGICAL ENVIRONMENTAL SURVEILLANCE PROGRAM

DEVIATION FROM THE REQUIRED SAMPLING SCHEDULE

JULY 1983 - DECEMBER 1983

EXCEPTIONS TO THE PROGRAM

1. The air sampling pump at the D-1 offsite environmental sampling station was inoperable from July 19, 1983 (0820 hours) to July 20, 1983 (1046 hours). Inoperability was caused by pump mechanical problems.
2. The air sampling pump at the I onsite environmental sampling station was inoperable from July 22, 1983 (0845 hours) to July 25, 1983 (1330 hours). Environmental radiation monitor I onsite was also inoperable from July 22, 1983 (0845 hours) to July 26, 1983 (1010 hours). Inoperability of the pump and monitor was caused by an electrical malfunction to the power supply to the environmental cabinet.
3. Environmental radiation monitor G onsite was inoperable from July 26, 1983 (1328 hours) to August 3, 1983 (1505 hours). Inoperability was caused by an electrical malfunction.
4. Environmental radiation monitor H onsite was inoperable from August 22, 1983 (1430 hours) to August 25, 1983 (0800 hours). Inoperability was caused by an electrical malfunction.
5. Environmental radiation monitor I onsite was inoperable from August 24, 1983 (0940 hours) to August 25, 1983 (1445 hours). Inoperability was caused by an electrical malfunction.
6. Environmental radiation monitor C offsite was inoperable from September 1, 1983 (0725 hours) to September 13, 1983 (0922 hours). Inoperability was caused by an electrical malfunction.
7. The air sampling pump at the H onsite environmental sampling station was inoperable from September 21, 1983 (0414 hours) to September 22, 1983 (1041 hours). Inoperability was caused by pump mechanical problems.
8. The air sampling pump at the J onsite environmental sampling station was inoperable from September 26, 1983 (1335 hours) to September 30, 1983 (1040 hours). Inoperability was caused by a blown fuse.
9. The air sampling pump at the J onsite environmental sampling station was inoperable from September 30, 1983 (1910 hours) to October 3, 1983 (1025 hours). Inoperability was caused by a blown fuse.

EXCEPTIONS TO THE PROGRAM (continued)

10. The air sampling pump at the H onsite environmental sampling station was inoperable from December 1, 1983 (1000 hours) to December 5, 1983 (1000 hours). Inoperability was caused by the technician's failure to turn the pump on after the weekly onsite environmental station inspection.
11. Environmental radiation monitor I onsite was inoperable from December 5, 1983 (1000 hours) to December 16, 1983 (1320 hours). Inoperability was caused by an electrical malfunction.
12. Environmental radiation monitor I onsite was inoperable from December 27, 1983 (1005 hours) to December 29, 1983 (1025 hours). Inoperability was caused by an electrical malfunction.
13. One Environmental Technical Specification (ETS) milk sample collected during October (October 10, 1983) and analyzed for iodine-131 had this analysis performed within 9.40 days instead of 8.041 days (one half-life of iodine-131). The analysis time was well within 10.05 days (one half-life of iodine-131 plus or minus 25 percent), and the LLD sensitivity for I-131 (<0.5 pCi/l) was satisfied as is required by the ETS.

***** LEGEND *****
 % FREQUENCY OF WIND DIRECTION WITHIN WIND SPEED CATEGORY
 *** BY STABILITY ***

JG120*

SITE: NINE MILE UPPER: WIND SPEED UPPER - 200FT AEROVANE
 WIND DIRECTION UPPER - 200FT AEROVANE
 TEMPERATURE DIFFERENCE - (200-27FT)

NINE MILE LOWER: WIND SPEED LOWER - 30FT CUP
 WIND DIRECTION LOWER - 30FT CUP
 TEMPERATURE DIFFERENCE - (200-27FT)

STABILITY CLASS: PASQUILL STABILITY CATEGORIES - DEGC/100M

A - EXTREMELY UNSTABLE	LT -1.9
B - MODERATELY UNSTABLE	-1.8 TO -1.7
C - SLIGHTLY UNSTABLE	-1.6 TO -1.5
D - NEUTRAL	-1.4 TO -0.5
E - SLIGHTLY STABLE	-0.4 TO 1.5
F - MODERATELY STABLE	1.6 TO 4.0
G - EXTREMELY STABLE	GT 4.0
ALL - ALL STABILITIES (A-G)	ALL
() - ALL WIND	N/A

WIND CLASS: SIX WIND SPEED CATEGORIES - (SEE TABLE HEADINGS) MPH

SIXTEEN WIND DIRECTION CATEGORIES - 22.5 DEG

NOTE: THE DATA CAPTURE STATISTICS ARE GIVEN FOR EACH OF THE NINE CATEGORIES LISTED ABOVE.

CALM WINDS ARE LISTED IN THE 0-3 WIND SPEED CATEGORY.

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1983 THROUGH SEPT 30 1983

JG120*

STABILITY CLASS - A

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.3 (5)	1.1 (21)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.4 (26)
NNF	0.3 (5)	1.3 (24)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.5 (29)
NE	0.1 (1)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
ENE	0.0 (0)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
E	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
SE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSE	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
S	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.0 (0)	0.1 (1)	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.3 (5)
W	0.0 (0)	0.4 (8)	0.2 (4)	0.2 (3)	0.1 (2)	0.0 (0)	0.9 (17)
WNW	0.2 (3)	1.9 (35)	0.3 (6)	0.0 (0)	0.0 (0)	0.0 (0)	2.4 (44)
NW	0.2 (4)	0.6 (12)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.9 (17)
NNW	0.6 (12)	1.0 (18)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.6 (30)
TOTAL	1.6 (30)	6.9 (128)	0.7 (14)	0.3 (5)	0.1 (2)	0.0 (0)	9.6 (179)

FOR STABILITY CLASS - A

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 184

NUMBER OF MISSING WIND OBSERVATIONS: 5

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1983 THROUGH SEPT 30 1983

JG120*

STABILITY CLASS - B

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.3 (5)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (9)
NNE	0.1 (2)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
NE	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
ENE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSE	0.0 (0)	0.1 (1)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
S	0.0 (0)	0.0 (0)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
SSW	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
SW	0.0 (0)	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
WSW	0.0 (0)	0.2 (3)	0.3 (5)	0.1 (1)	0.2 (4)	0.0 (0)	0.7 (13)
W	0.1 (1)	0.1 (2)	0.4 (7)	0.1 (2)	0.0 (0)	0.0 (0)	0.6 (12)
WNW	0.1 (1)	0.3 (6)	0.1 (1)	0.0 (0)	0.1 (2)	0.0 (0)	0.5 (10)
NW	0.0 (0)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
NNW	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
TOTAL	0.5 (10)	1.0 (19)	1.2 (22)	0.2 (3)	0.3 (6)	0.0 (0)	3.2 (60)

FOR STABILITY CLASS - B

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 62

NUMBER OF MISSING WIND OBSERVATIONS: 2

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1983 THROUGH SEPT 30 1983

JG120*

STABILITY CLASS - C

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.1 (2)	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (6)
NNE	0.3 (6)	0.3 (5)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.6 (12)
NE	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
ENE	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
E	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
ESE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SE	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
SSE	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
S	0.0 (0)	0.0 (0)	0.1 (2)	0.1 (1)	0.0 (0)	0.0 (0)	0.2 (3)
SSW	0.0 (0)	0.1 (1)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
SW	0.0 (0)	0.0 (0)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
WSW	0.0 (0)	0.1 (2)	0.9 (16)	0.1 (2)	0.1 (1)	0.0 (0)	1.1 (21)
W	0.0 (0)	0.3 (5)	0.6 (11)	0.3 (5)	0.1 (2)	0.1 (1)	1.3 (24)
WNW	0.0 (0)	0.3 (5)	0.3 (5)	0.3 (5)	0.1 (2)	0.1 (1)	1.0 (19)
NW	0.1 (1)	0.0 (0)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.2 (3)
NNW	0.1 (1)	0.1 (2)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (6)
TOTAL	0.7 (13)	1.5 (28)	2.5 (47)	0.7 (14)	0.3 (5)	0.1 (2)	5.8 (109)

FOR STABILITY CLASS - C

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 110

NUMBER OF MISSING WIND OBSERVATIONS: 1

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1983 THROUGH SEPT 30 1983

----- JG120

STABILITY CLASS - D

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.2 (3)	0.7 (13)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.9 (17)
NNE	0.5 (9)	0.3 (5)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.9 (17)
NE	0.4 (7)	0.4 (7)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.7 (14)
ENE	0.3 (5)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (8)
E	0.1 (2)	0.3 (6)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (8)
ESE	0.0 (0)	0.4 (8)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.6 (11)
SE	0.1 (1)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
SSE	0.3 (6)	1.0 (19)	0.6 (11)	0.0 (0)	0.0 (0)	0.0 (0)	1.9 (36)
S	0.0 (0)	1.0 (19)	1.3 (25)	0.1 (1)	0.0 (0)	0.0 (0)	2.4 (45)
SSW	0.0 (0)	0.6 (11)	0.5 (9)	0.0 (0)	0.0 (0)	0.0 (0)	1.1 (20)
SW	0.1 (1)	0.5 (9)	0.7 (14)	0.1 (1)	0.0 (0)	0.0 (0)	1.3 (25)
WSW	0.2 (4)	1.7 (31)	2.6 (48)	1.5 (28)	0.2 (3)	0.0 (0)	6.1 (114)
W	0.3 (5)	0.5 (9)	1.6 (29)	2.0 (37)	0.8 (15)	0.0 (0)	5.1 (95)
WNW	0.3 (6)	1.0 (18)	1.3 (25)	0.7 (13)	0.2 (4)	0.0 (0)	3.5 (66)
NW	0.2 (3)	0.2 (4)	0.2 (3)	0.1 (1)	0.0 (0)	0.0 (0)	0.6 (11)
NNW	0.3 (5)	0.2 (4)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (10)
TOTAL	3.1 (57)	9.1 (169)	9.2 (172)	4.3 (81)	1.2 (22)	0.0 (0)	26.8 (501)

FOR STABILITY CLASS - D

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 504

NUMBER OF MISSING WIND OBSERVATIONS: 3

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1983 THROUGH SEPT 30 1983

JG120*

STABILITY CLASS - E

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.3 (5)	0.5 (10)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.9 (16)
NNE	0.6 (12)	1.3 (25)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	2.0 (38)
NE	0.4 (8)	0.7 (13)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	1.3 (24)
ENE	1.0 (19)	1.2 (22)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	2.2 (42)
E	0.7 (14)	0.7 (13)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.4 (27)
ESE	0.4 (8)	1.2 (22)	0.3 (5)	0.0 (0)	0.0 (0)	0.0 (0)	1.9 (35)
SE	0.3 (6)	1.2 (23)	0.7 (13)	0.0 (0)	0.0 (0)	0.0 (0)	2.2 (42)
SSE	0.4 (8)	2.3 (43)	1.0 (18)	0.1 (1)	0.0 (0)	0.0 (0)	3.7 (70)
S	0.4 (8)	3.3 (62)	1.6 (29)	0.0 (0)	0.0 (0)	0.0 (0)	5.3 (99)
SSW	0.1 (1)	1.5 (28)	0.6 (12)	0.0 (0)	0.0 (0)	0.0 (0)	2.2 (41)
SW	0.1 (2)	0.9 (16)	1.0 (19)	0.1 (2)	0.0 (0)	0.0 (0)	2.1 (39)
WSW	0.2 (3)	0.9 (17)	1.9 (36)	0.5 (9)	0.3 (6)	0.0 (0)	3.8 (71)
W	0.1 (1)	0.3 (5)	0.4 (8)	0.5 (10)	0.2 (4)	0.0 (0)	1.5 (28)
WNW	0.1 (2)	0.5 (9)	0.3 (6)	0.2 (3)	0.1 (1)	0.0 (0)	1.1 (21)
NW	0.1 (1)	0.1 (2)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.2 (4)
NNW	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
TOTAL	5.2 (98)	16.7 (311)	8.1 (151)	1.4 (27)	0.6 (11)	0.0 (0)	32.0 (598)

FOR STABILITY CLASS - E

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 605

NUMBER OF MISSING WIND OBSERVATIONS: 7

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1983 THROUGH SEPT 30 1983

JG120*

STABILITY CLASS - F

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
NNE	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
NE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ENE	0.3 (6)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (6)
E	0.5 (9)	0.3 (5)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.7 (14)
ESE	1.1 (21)	0.6 (12)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.7 (33)
SE	0.5 (9)	0.4 (7)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.9 (16)
SSE	0.5 (9)	1.4 (26)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	2.0 (38)
S	0.6 (12)	2.0 (38)	0.4 (7)	0.0 (0)	0.0 (0)	0.0 (0)	3.1 (57)
SSW	0.3 (5)	0.3 (6)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.6 (11)
SW	0.1 (1)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
WSW	0.0 (0)	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
W	0.0 (0)	0.1 (2)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.2 (4)
WNW	0.0 (0)	0.1 (2)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
NW	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
NNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
TOTAL	4.1 (77)	5.6 (104)	0.7 (14)	0.1 (1)	0.0 (0)	0.0 (0)	10.5 (196)

FOR STABILITY CLASS - F

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 198

NUMBER OF MISSING WIND OBSERVATIONS: 2

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

AMBIENT AIR MONITORING

OSWEGO

DATA FOR JULY 1 1983 THROUGH SEPT 30 1983

SITE: NINE MILE LOWER (9)

JG120*

STABILITY CLASS - G

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NNE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ENE	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
E	0.7 (13)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.7 (14)
ESE	1.9 (36)	1.6 (30)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	3.5 (66)
SE	1.2 (22)	1.5 (28)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	2.7 (50)
SSE	0.9 (16)	2.3 (43)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	3.2 (59)
S	0.1 (2)	1.4 (26)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	1.6 (30)
SSW	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
SW	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
WSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
W	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
WNW	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
NW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
TOTAL	5.0 (93)	6.9 (128)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	12.0 (224)

FOR STABILITY CLASS - G

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 235

NUMBER OF MISSING WIND OBSERVATIONS: 11

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1983 THROUGH SEPT 30 1983

JG120*

STABILITY CLASS - ALL

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	1.1 (20)	2.7 (51)	0.2 (3)	0.1 (1)	0.0 (0)	0.0 (0)	4.0 (75)
NNE	2.0 (38)	3.2 (60)	0.3 (5)	0.0 (0)	0.0 (0)	0.0 (0)	5.5 (103)
NE	1.0 (19)	1.3 (25)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	2.5 (47)
ENE	1.7 (31)	1.6 (29)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	3.3 (62)
E	2.1 (39)	1.3 (25)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	3.4 (64)
ESE	3.5 (65)	3.9 (73)	0.4 (8)	0.0 (0)	0.0 (0)	0.0 (0)	7.8 (146)
SE	2.0 (38)	3.3 (62)	0.7 (13)	0.0 (0)	0.0 (0)	0.0 (0)	6.1 (113)
SSE	2.1 (39)	7.2 (135)	1.8 (34)	0.1 (1)	0.0 (0)	0.0 (0)	11.2 (209)
S	1.2 (22)	7.8 (145)	3.7 (69)	0.1 (2)	0.0 (0)	0.0 (0)	12.7 (238)
SSW	0.4 (7)	2.5 (46)	1.3 (24)	0.0 (0)	0.0 (0)	0.0 (0)	4.1 (77)
SW	0.2 (4)	1.5 (28)	2.1 (39)	0.2 (3)	0.0 (0)	0.0 (0)	4.0 (74)
WSW	0.4 (7)	3.0 (56)	5.8 (109)	2.2 (42)	0.7 (14)	0.0 (0)	12.2 (228)
W	0.4 (8)	1.7 (31)	3.2 (60)	3.1 (58)	1.2 (23)	0.1 (1)	9.7 (181)
WNW	0.7 (13)	4.1 (76)	2.4 (44)	1.1 (21)	0.5 (9)	0.1 (1)	8.8 (164)
NW	0.5 (10)	1.0 (19)	0.3 (6)	0.2 (3)	0.0 (0)	0.0 (0)	2.0 (38)
NNW	1.0 (18)	1.4 (26)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	2.6 (48)
TOTAL	20.2 (378)	47.5 (887)	22.7 (423)	7.0 (131)	2.5 (46)	0.1 (2)	100.0 (1867)

FOR STABILITY CLASS - ALL

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 1898

NUMBER OF MISSING WIND OBSERVATIONS: 31

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1983 THROUGH SEPT 30 1983

JG120*

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	1.1 (20)	2.7 (51)	0.2 (3)	0.1 (1)	0.0 (0)	0.0 (0)	4.0 (75)
NNE	2.0 (38)	3.2 (60)	0.3 (5)	0.0 (0)	0.0 (0)	0.0 (0)	5.5 (103)
NW	1.0 (19)	1.3 (25)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	2.5 (47)
ENE	1.7 (31)	1.5 (29)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	3.3 (62)
E	2.1 (39)	1.3 (25)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	3.4 (64)
ESE	3.5 (65)	3.9 (73)	0.4 (8)	0.0 (0)	0.0 (0)	0.0 (0)	7.8 (146)
SE	2.0 (38)	3.3 (62)	0.7 (13)	0.0 (0)	0.0 (0)	0.0 (0)	6.0 (113)
SSE	2.1 (39)	7.2 (135)	1.8 (34)	0.1 (1)	0.0 (0)	0.0 (0)	11.2 (209)
S	1.2 (22)	7.8 (145)	3.7 (69)	0.1 (2)	0.0 (0)	0.0 (0)	12.7 (238)
SSW	0.4 (7)	2.5 (46)	1.3 (24)	0.0 (0)	0.0 (0)	0.0 (0)	4.1 (77)
SW	0.2 (4)	1.5 (28)	2.1 (39)	0.2 (3)	0.0 (0)	0.0 (0)	4.0 (74)
WSW	0.4 (7)	3.0 (56)	5.9 (111)	2.2 (42)	0.7 (14)	0.0 (0)	12.3 (230)
W	0.4 (8)	1.7 (31)	3.2 (60)	3.1 (58)	1.2 (23)	0.1 (1)	9.7 (181)
WNW	0.7 (13)	4.1 (76)	2.4 (44)	1.1 (21)	0.5 (9)	0.1 (1)	8.8 (164)
NW	0.5 (10)	1.0 (19)	0.3 (5)	0.2 (3)	0.0 (0)	0.0 (0)	2.0 (38)
NNW	1.0 (18)	1.4 (26)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	2.6 (48)
TOTAL	20.2 (378)	47.5 (887)	22.7 (425)	7.0 (131)	2.5 (46)	0.1 (2)	100.0 (1869)

FOR ALL WIND CATEGORIES

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2208

NUMBER OF MISSING WIND OBSERVATIONS: 339

NUMBER OF CALM HOURS: 0

***** LEGEND *****
 % FREQUENCY OF WIND DIRECTION WITHIN WIND SPEED CATEGORY
 *** BY STABILITY ***

-----JG120*

SITE: NINE MILE UPPER: WIND SPEED UPPER - 200FT AEROVANE
 WIND DIRECTION UPPER - 200FT AEROVANE
 TEMPERATURE DIFFERENCE - (200-27FT)

NINE MILE LOWER: WIND SPEED LOWER - 30FT CUP
 WIND DIRECTION LOWER - 30FT CUP
 TEMPERATURE DIFFERENCE - (200-27FT)

STABILITY CLASS: PASQUILL STABILITY CATEGORIES - DEGC/100M

A - EXTREMELY UNSTABLE	LT -1.9
B - MODERATELY UNSTABLE	-1.8 TO -1.7
C - SLIGHTLY UNSTABLE	-1.6 TO -1.5
D - NEUTRAL	-1.4 TO -0.5
E - SLIGHTLY STABLE	-0.4 TO 1.5
F - MODERATELY STABLE	1.6 TO 4.0
G - EXTREMELY STABLE	GT 4.0
ALL - ALL STABILITIES (A-G)	ALL
() - ALL WIND	N/A

WIND CLASS: SIX WIND SPEED CATEGORIES - (SEE TABLE HEADINGS) MPH
 SIXTEEN WIND DIRECTION CATEGORIES - 22.5 DEG

NOTE: THE DATA CAPTURE STATISTICS ARE GIVEN FOR EACH OF THE NINE CATEGORIES LISTED ABOVE.

CALM WINDS ARE LISTED IN THE 0-3 WIND SPEED CATEGORY.

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR OCT 1 1983 THROUGH DEC 31 1983

JG120*

STABILITY CLASS - A

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.0 (1)	0.1 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
NNE	0.0 (0)	0.1 (3)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
NE	0.2 (5)	0.4 (8)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.6 (13)
ENE	0.0 (0)	0.1 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (3)
E	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SE	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
SSE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (1)	0.0 (0)	0.1 (2)
SSW	0.0 (0)	0.0 (0)	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (1)	0.2 (5)
SW	0.0 (0)	0.0 (0)	0.1 (2)	0.0 (0)	0.1 (2)	0.0 (1)	0.2 (5)
WSW	0.0 (0)	0.2 (5)	0.3 (7)	0.1 (3)	0.0 (0)	0.1 (2)	0.8 (17)
W	0.0 (0)	0.2 (4)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (6)
WNW	0.1 (2)	0.1 (2)	0.6 (13)	0.1 (3)	0.3 (6)	0.6 (12)	1.8 (38)
NW	0.0 (0)	0.1 (2)	0.3 (7)	0.1 (3)	0.0 (0)	0.1 (3)	0.8 (16)
NNW	0.1 (3)	0.3 (7)	0.1 (3)	0.1 (2)	0.0 (0)	0.0 (0)	0.7 (15)
TOTAL	0.5 (11)	1.8 (38)	1.8 (37)	0.7 (14)	0.5 (10)	0.9 (19)	6.2 (129)

FOR STABILITY CLASS - A

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 129

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK
OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9) DATA FOR OCT 1 1983 THROUGH DEC 31 1983

JG120*

STABILITY CLASS - B

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
NNE	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
NE	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
ENE	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
E	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.0 (2)	0.0 (1)	0.0 (1)	0.0 (1)	0.0 (0)	0.0 (5)
SE	0.0 (1)	0.0 (2)	0.0 (0)	0.0 (2)	0.0 (0)	0.0 (0)	0.0 (5)
SSE	0.0 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (2)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (1)
SSW	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (2)
SW	0.0 (0)	0.0 (1)	0.0 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (3)
WSW	0.0 (0)	0.0 (2)	0.0 (3)	0.0 (3)	0.0 (1)	0.0 (0)	0.0 (9)
W	0.0 (0)	0.0 (4)	0.0 (2)	0.0 (3)	0.0 (1)	0.0 (1)	0.0 (11)
WNW	0.0 (2)	0.0 (6)	0.0 (2)	0.0 (3)	0.0 (4)	0.0 (2)	0.0 (19)
NW	0.0 (1)	0.0 (7)	0.0 (3)	0.0 (4)	0.0 (0)	0.0 (1)	0.0 (16)
NNW	0.0 (1)	0.0 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (3)
TOTAL	0.3 (7)	1.4 (29)	0.7 (15)	0.9 (18)	0.3 (7)	0.2 (4)	3.9 (80)

FOR STABILITY CLASS - B

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 80

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR OCT 1 1983 THROUGH DEC 31 1983

JG120*

STABILITY CLASS - C

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
H	0.0 (0)	0.0 (1)	0.0 (1)	0.0 (1)	0.0 (0)	0.0 (0)	0.1 (3)
NNE	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
NE	0.0 (1)	0.2 (4)	0.1 (3)	0.0 (1)	0.0 (0)	0.0 (0)	0.4 (9)
ENE	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.1 (2)
E	0.1 (2)	0.0 (1)	0.0 (0)	0.0 (1)	0.0 (1)	0.0 (0)	0.2 (5)
ESE	0.0 (1)	0.1 (2)	0.0 (1)	0.0 (0)	0.0 (1)	0.0 (0)	0.2 (5)
SE	0.1 (2)	0.0 (1)	0.0 (0)	0.1 (2)	0.0 (1)	0.0 (0)	0.3 (6)
SSE	0.1 (2)	0.0 (0)	0.0 (1)	0.0 (1)	0.0 (0)	0.0 (0)	0.2 (4)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSW	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (1)	0.0 (1)	0.0 (0)	0.1 (3)
SW	0.0 (0)	0.0 (1)	0.2 (5)	0.0 (1)	0.0 (0)	0.0 (0)	0.3 (7)
WSW	0.0 (0)	0.1 (2)	0.1 (2)	0.2 (4)	0.0 (0)	0.0 (0)	0.4 (8)
W	0.1 (2)	0.2 (4)	0.1 (3)	0.2 (4)	0.0 (0)	0.0 (0)	0.6 (13)
WNW	0.0 (1)	0.3 (7)	0.3 (6)	0.2 (4)	0.3 (6)	0.2 (4)	1.3 (28)
NW	0.0 (0)	0.3 (6)	0.2 (4)	0.3 (6)	0.0 (0)	0.1 (3)	0.9 (19)
NNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (1)
TOTAL	0.5 (11)	1.5 (31)	1.3 (27)	1.3 (27)	0.5 (11)	0.3 (7)	5.5 (114)

FOR STABILITY CLASS - C

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 117

NUMBER OF MISSING WIND OBSERVATIONS: 3

NUMBER OF CALM HOURS: 0

NIAGARA MCHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR OCT 1 1983 THROUGH DEC 31 1983

JG120*

STABILITY CLASS - D

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.0 (1)	0.4 (8)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (1)	0.5 (11)
NNE	0.2 (4)	0.8 (16)	0.5 (11)	0.0 (1)	0.0 (0)	0.0 (0)	1.5 (32)
NE	1.6 (33)	2.5 (51)	0.5 (11)	0.8 (16)	0.2 (5)	0.3 (7)	5.9 (123)
ENE	0.2 (4)	0.4 (9)	0.2 (5)	0.2 (4)	0.0 (0)	0.0 (0)	1.1 (22)
E	0.7 (15)	1.1 (23)	0.4 (9)	0.8 (16)	0.2 (5)	0.0 (1)	3.3 (69)
ESE	1.4 (29)	2.2 (45)	0.6 (13)	0.5 (10)	0.0 (0)	0.0 (0)	4.7 (97)
SE	0.4 (9)	1.5 (32)	0.5 (10)	0.0 (1)	0.0 (0)	0.0 (1)	2.6 (53)
SSE	0.1 (3)	1.1 (22)	0.5 (11)	0.1 (2)	0.1 (2)	0.1 (3)	2.1 (43)
S	0.1 (3)	0.7 (14)	0.7 (14)	0.5 (10)	0.3 (6)	0.5 (11)	2.8 (58)
SSW	0.2 (5)	0.5 (11)	1.3 (26)	0.8 (16)	0.8 (17)	1.2 (25)	4.8 (100)
SW	0.3 (6)	1.0 (21)	0.9 (18)	0.5 (11)	0.4 (9)	0.2 (5)	3.4 (70)
WSW	0.3 (7)	0.5 (10)	1.3 (26)	0.8 (16)	0.5 (10)	0.3 (6)	3.6 (75)
W	0.4 (8)	1.4 (30)	0.9 (18)	0.6 (12)	0.4 (8)	1.0 (20)	4.6 (96)
WNW	0.6 (13)	1.4 (30)	0.7 (14)	0.3 (7)	0.6 (12)	0.5 (10)	4.1 (86)
NW	0.2 (5)	1.0 (21)	0.4 (8)	0.6 (12)	0.1 (3)	0.6 (12)	2.9 (61)
NNW	0.2 (5)	0.3 (6)	0.1 (3)	0.3 (6)	0.0 (1)	0.0 (1)	1.1 (22)
TOTAL	7.2 (150)	16.8 (349)	9.5 (198)	6.7 (140)	3.8 (78)	5.6 (103)	49.1 (1018)

FOR STABILITY CLASS - D

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 1054

NUMBER OF MISSING WIND OBSERVATIONS: 36

NUMBER OF CALM HOURS: 2

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR OCT 1 1983 THROUGH DEC 31 1983

JG120*

STABILITY CLASS - E

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)						TOTAL
	00-03	04-07	08-12	13-18	19-23	>24	
N	0.0 (6)	0.0 (1)	0.0 (1)	0.0 (0)	0.0 (1)	0.0 (0)	0.1 (3)
NNE	0.0 (0)	0.3 (7)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (7)
NE	0.2 (5)	0.8 (16)	0.0 (1)	0.1 (3)	0.0 (0)	0.0 (0)	1.2 (25)
ENE	0.3 (6)	0.9 (18)	0.1 (3)	0.0 (1)	0.0 (0)	0.0 (1)	1.4 (29)
E	1.3 (26)	1.1 (22)	0.4 (9)	0.2 (5)	0.1 (2)	0.1 (2)	3.2 (66)
ESE	1.4 (29)	3.9 (80)	1.3 (26)	0.3 (6)	0.0 (1)	0.2 (5)	7.1 (147)
SE	1.3 (27)	1.6 (33)	0.8 (16)	0.0 (0)	0.0 (1)	0.1 (3)	3.9 (80)
SSE	0.3 (7)	1.4 (30)	0.9 (18)	0.1 (2)	0.0 (0)	0.1 (3)	2.9 (60)
S	0.1 (2)	1.3 (26)	1.0 (21)	0.1 (3)	0.2 (4)	0.0 (0)	2.7 (56)
SSW	0.1 (2)	0.5 (10)	0.5 (10)	0.0 (1)	0.0 (0)	0.1 (2)	1.2 (25)
SW	0.3 (7)	0.6 (13)	0.4 (9)	0.0 (1)	0.1 (3)	0.0 (1)	1.6 (34)
WSW	0.1 (2)	0.1 (3)	0.3 (6)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (11)
W	0.2 (4)	0.2 (4)	0.1 (3)	0.0 (1)	0.0 (0)	0.0 (0)	0.6 (12)
WNW	0.1 (2)	0.3 (6)	0.1 (2)	0.0 (0)	0.1 (2)	0.0 (0)	0.6 (12)
NW	0.1 (3)	0.0 (1)	0.1 (2)	0.0 (0)	0.1 (3)	0.0 (0)	0.4 (9)
NNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
TOTAL	5.9 (122)	13.0 (270)	6.1 (127)	1.1 (23)	0.8 (17)	0.8 (17)	27.8 (576)

FOR STABILITY CLASS - E

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 597

NUMBER OF MISSING WIND OBSERVATIONS: 21

NUMBER OF CALM HOURS: 1

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9) DATA FOR OCT 1 1983 THROUGH DEC 31 1983

JG120*

STABILITY CLASS - F

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NNE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ENE	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
E	0.5 (10)	0.8 (16)	0.2 (4)	0.1 (2)	0.0 (0)	0.0 (1)	1.6 (33)
ESE	0.3 (7)	0.4 (8)	0.4 (8)	0.0 (1)	0.0 (1)	0.1 (3)	1.3 (28)
SE	0.0 (1)	0.4 (8)	0.1 (3)	0.0 (1)	0.1 (3)	0.0 (0)	0.8 (16)
SSE	0.1 (3)	0.2 (5)	0.0 (1)	0.2 (4)	0.0 (1)	0.0 (0)	0.7 (14)
S	0.0 (1)	0.2 (5)	0.0 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (8)
SSW	0.0 (1)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
SW	0.0 (0)	0.1 (2)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (5)
WSW	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)	0.0 (0)	0.2 (4)
W	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
TOTAL	1.2 (25)	2.2 (46)	0.9 (19)	0.4 (8)	0.4 (9)	0.2 (4)	5.3 (111)

FOR STABILITY CLASS - F

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 111

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 1

NIAGARA MOHAWK
OSWEGO AMBIENT AIR MONITORING

DATA FOR OCT 1 1983 THROUGH DEC 31 1983

SITE: NINE MILE LOWER (9)

JG120*

STABILITY CLASS - G

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NNE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ENE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.2 (5)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (9)
ESE	0.2 (4)	0.4 (8)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.6 (12)
SE	0.0 (1)	0.3 (6)	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.5 (11)
SSE	0.2 (5)	0.1 (3)	0.0 (1)	0.1 (2)	0.0 (0)	0.0 (0)	0.5 (11)
S	0.0 (0)	0.0 (0)	0.1 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (3)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
W	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
TOTAL	0.7 (15)	1.0 (21)	0.3 (7)	0.2 (4)	0.0 (0)	0.0 (0)	2.3 (47)

FOR STABILITY CLASS - G

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 52

NUMBER OF MISSING WIND OBSERVATIONS: 5

NUMBER OF CALM HOURS: 1

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR OCT 1 1983 THROUGH DEC 31 1983

-----JG120

STABILITY CLASS - ALL

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.1 (2)	0.7 (14)	0.1 (3)	0.0 (1)	0.0 (1)	0.0 (1)	1.1 (22)
NNE	0.2 (4)	1.3 (28)	0.6 (12)	0.0 (1)	0.0 (0)	0.0 (0)	2.2 (45)
NE	2.1 (44)	3.8 (79)	0.8 (16)	1.0 (20)	0.2 (5)	0.3 (7)	8.2 (171)
ENE	0.5 (10)	1.6 (33)	0.4 (9)	0.3 (6)	0.0 (0)	0.0 (1)	2.8 (59)
E	2.8 (58)	3.2 (66)	1.1 (22)	1.2 (24)	0.4 (8)	0.2 (4)	8.8 (182)
ESE	3.4 (70)	7.0 (145)	2.4 (49)	0.9 (18)	0.2 (4)	0.4 (8)	14.2 (294)
SE	2.0 (41)	4.0 (83)	1.5 (31)	0.4 (8)	0.2 (5)	0.2 (4)	8.3 (172)
SSE	1.1 (22)	2.9 (60)	1.5 (32)	0.5 (11)	0.1 (3)	0.3 (6)	6.5 (134)
S	0.3 (6)	2.2 (45)	1.9 (40)	0.7 (15)	0.5 (11)	0.5 (11)	6.2 (128)
SSW	0.4 (8)	1.1 (22)	1.9 (40)	1.0 (21)	0.9 (18)	1.3 (28)	6.6 (137)
SW	0.6 (13)	1.8 (38)	1.8 (37)	0.6 (13)	0.8 (16)	0.3 (7)	6.0 (124)
WSW	0.5 (11)	1.1 (22)	2.1 (44)	1.3 (26)	0.6 (13)	0.4 (8)	6.0 (124)
W	0.7 (14)	2.2 (46)	1.3 (28)	1.0 (20)	0.4 (9)	1.0 (21)	6.7 (138)
WNW	1.0 (20)	2.5 (51)	1.8 (37)	0.8 (17)	1.4 (30)	1.3 (28)	8.8 (183)
NW	0.4 (9)	1.8 (37)	1.2 (24)	1.2 (25)	0.3 (7)	0.9 (19)	5.8 (121)
NNW	0.4 (9)	0.7 (15)	0.3 (6)	0.4 (8)	0.1 (2)	0.0 (1)	2.0 (41)
TOTAL	16.4 (341)	37.8 (784)	20.7 (430)	11.3 (234)	6.4 (132)	7.4 (154)	100.0 (2075)

FOR STABILITY CLASS - ALL

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2140

NUMBER OF MISSING WIND OBSERVATIONS: 65

NUMBER OF CALM HOURS: 5

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR OCT 1 1983 THROUGH DEC 31 1983

JG120*

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.1 (2)	0.7 (14)	0.1 (3)	0.0 (1)	0.0 (1)	0.0 (1)	1.1 (22)
NNE	0.2 (4)	1.3 (28)	0.6 (12)	0.0 (1)	0.0 (0)	0.0 (0)	2.2 (45)
NE	2.1 (44)	3.8 (79)	0.8 (16)	1.0 (20)	0.2 (5)	0.3 (7)	8.2 (171)
ENE	0.5 (10)	1.6 (33)	0.4 (9)	0.3 (6)	0.0 (0)	0.0 (1)	2.8 (59)
E	2.8 (58)	3.2 (66)	1.1 (22)	1.2 (24)	0.4 (8)	0.2 (4)	8.7 (182)
ESE	3.4 (70)	7.0 (146)	2.4 (51)	0.9 (18)	0.2 (4)	0.4 (8)	14.3 (297)
SE	2.0 (41)	4.0 (83)	1.5 (31)	0.4 (8)	0.2 (5)	0.2 (4)	8.3 (172)
SSE	1.1 (22)	2.9 (60)	1.5 (32)	0.5 (11)	0.1 (3)	0.3 (6)	6.4 (134)
S	0.3 (6)	2.2 (46)	2.0 (41)	0.8 (16)	0.5 (11)	0.6 (12)	6.3 (132)
SSW	0.4 (8)	1.1 (22)	1.9 (40)	1.0 (21)	0.9 (18)	1.3 (28)	6.6 (137)
SW	0.6 (13)	1.8 (38)	1.8 (38)	0.6 (13)	0.8 (16)	0.3 (7)	6.0 (125)
WSW	0.5 (11)	1.1 (22)	2.1 (44)	1.2 (26)	0.6 (13)	0.4 (8)	6.0 (124)
W	0.7 (14)	2.2 (46)	1.3 (28)	1.0 (20)	0.4 (9)	1.0 (21)	6.6 (138)
WNW	1.0 (20)	2.4 (51)	1.8 (37)	0.8 (17)	1.4 (30)	1.3 (28)	8.8 (183)
NW	0.4 (9)	1.8 (37)	1.2 (24)	1.2 (25)	0.3 (7)	0.9 (19)	5.8 (121)
NNW	0.4 (9)	0.7 (15)	0.3 (6)	0.4 (8)	0.1 (2)	0.0 (1)	2.0 (41)
TOTAL	16.4 (341)	37.7 (786)	20.8 (434)	11.3 (235)	6.3 (132)	7.4 (155)	100.0 (2083)

FOR ALL WIND CATEGORIES

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2208

NUMBER OF MISSING WIND OBSERVATIONS: 125

NUMBER OF CALM HOURS: 9

***** LEGEND *****
 % FREQUENCY OF WIND DIRECTION WITHIN WIND SPEED CATEGORY
 *** BY STABILITY ***

JG120*

SITE: NINE MILE UPPER: WIND SPEED UPPER - 200FT AEROVANE
 WIND DIRECTION UPPER - 200FT AEROVANE
 TEMPERATURE DIFFERENCE - (200-27FT)

NINE MILE LOWER: WIND SPEED LOWER - 30FT CUP
 WIND DIRECTION LOWER - 30FT CUP
 TEMPERATURE DIFFERENCE - (200-27FT)

STABILITY CLASS: PASQUILL STABILITY CATEGORIES - DEGC/100M

A - EXTREMELY UNSTABLE	LT -1.9
B - MODERATELY UNSTABLE	-1.8 TO -1.7
C - SLIGHTLY UNSTABLE	-1.6 TO -1.5
D - NEUTRAL	-1.4 TO -0.5
E - SLIGHTLY STABLE	-0.4 TO 1.5
F - MODERATELY STABLE	1.6 TO 4.0
G - EXTREMELY STABLE	GT 4.0
ALL - ALL STABILITIES (A-G)	ALL
() - ALL WIND	N/A

WIND CLASS: SIX WIND SPEED CATEGORIES - (SEE TABLE HEADINGS) MPH

SIXTEEN WIND DIRECTION CATEGORIES - 22.5 DEG

NOTE: THE DATA CAPTURE STATISTICS ARE GIVEN FOR EACH OF THE NINE CATEGORIES LISTED ABOVE.

CALM WINDS ARE LISTED IN THE 0-3 WIND SPEED CATEGORY.

NIAGARA MOHAWK
OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1983 THROUGH SEPT 30 1983

JG120*

STABILITY CLASS -- A

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.0 (0)	1.0 (19)	1.0 (18)	0.4 (7)	0.1 (1)	0.0 (0)	2.4 (45)
NNE	0.0 (0)	0.6 (12)	0.3 (6)	0.3 (5)	0.1 (2)	0.0 (0)	1.3 (25)
NE	0.0 (0)	0.2 (4)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (6)
ENE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SE	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
SSE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (1)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
W	0.0 (0)	0.4 (7)	0.3 (5)	0.1 (1)	0.2 (4)	0.0 (0)	0.9 (17)
WNW	0.0 (0)	0.4 (7)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.6 (11)
NW	0.0 (0)	0.9 (16)	0.3 (6)	0.3 (5)	0.0 (0)	0.0 (0)	1.4 (27)
NNW	0.0 (0)	0.5 (12)	1.0 (18)	0.5 (10)	0.1 (1)	0.0 (0)	2.2 (41)
TOTAL	0.0 (0)	4.2 (78)	3.2 (60)	1.7 (31)	0.5 (10)	0.0 (0)	9.6 (179)

FOR STABILITY CLASS -- A

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 184

NUMBER OF MISSING WIND OBSERVATIONS: 5

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1983 THROUGH SEPT 30 1983

JG120*

STABILITY CLASS - B

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.0 (0)	0.1 (2)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.2 (4)
NNE	0.1 (1)	0.4 (7)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (8)
NE	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (2)
ENE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSE	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
S	0.0 (0)	0.0 (0)	0.1 (1)	0.1 (1)	0.1 (1)	0.0 (0)	0.2 (3)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)	0.0 (0)	0.0 (0)	0.2 (3)
SW	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
WSW	0.0 (0)	0.1 (2)	0.2 (3)	0.2 (3)	0.0 (0)	0.0 (0)	0.6 (12)
W	0.0 (0)	0.1 (1)	0.4 (8)	0.0 (0)	0.1 (2)	0.2 (4)	0.6 (11)
WNW	0.0 (0)	0.3 (5)	0.1 (2)	0.1 (2)	0.0 (0)	0.1 (2)	0.6 (11)
NW	0.0 (0)	0.1 (2)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
NNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.1 (1)
TOTAL	0.1 (1)	1.1 (21)	0.9 (17)	0.5 (10)	0.2 (4)	0.4 (7)	3.2 (60)

FOR STABILITY CLASS - B

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 62

NUMBER OF MISSING WIND OBSERVATIONS: 2

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE L.L.C. UPPER (9)

DATA FOR JULY 1 1983 THROUGH SEPT 30 1983

JG120*

STABILITY CLASS - C

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.0 (0)	0.2 (4)	0.1 (1)	0.1 (2)	0.1 (1)	0.1 (2)	0.5 (10)
NNE	0.0 (0)	0.3 (6)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (6)
NE	0.0 (0)	0.2 (3)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.2 (4)
ENE	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
E	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
ESE	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
SE	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
SSE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (1)
S	0.0 (0)	0.0 (0)	0.1 (2)	0.1 (1)	0.1 (1)	0.0 (0)	0.2 (4)
SSW	0.0 (0)	0.1 (1)	0.0 (0)	0.2 (4)	0.0 (0)	0.0 (0)	0.3 (5)
SW	0.0 (0)	0.0 (0)	0.1 (1)	0.1 (2)	0.0 (0)	0.0 (0)	0.2 (3)
WSW	0.0 (0)	0.0 (0)	0.6 (12)	0.4 (7)	0.1 (1)	0.1 (1)	1.1 (21)
W	0.0 (0)	0.3 (6)	0.3 (5)	0.3 (5)	0.3 (5)	0.1 (1)	1.2 (22)
WNW	0.0 (0)	0.2 (3)	0.3 (5)	0.3 (5)	0.2 (4)	0.1 (1)	1.0 (18)
NW	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (1)	0.1 (1)	0.1 (1)	0.2 (4)
NNW	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (5)	0.3 (6)
TOTAL	0.0 (0)	1.6 (29)	1.4 (27)	1.4 (27)	0.8 (15)	0.6 (11)	5.8 (109)

FOR STABILITY CLASS - C

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 110

NUMBER OF MISSING WIND OBSERVATIONS: 1

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1983 THROUGH SEPT 30 1983

JG120*

STABILITY CLASS - D

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.1 (1)	0.1 (2)	0.3 (5)	0.4 (8)	0.1 (1)	0.2 (3)	1.1 (20)
NNE	0.1 (2)	0.4 (8)	0.1 (1)	0.3 (5)	0.1 (1)	0.2 (3)	1.1 (20)
NE	0.0 (0)	0.2 (4)	0.1 (1)	0.0 (0)	0.1 (1)	0.0 (0)	0.3 (6)
ENE	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
E	0.0 (0)	0.0 (0)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (2)
ESE	0.0 (0)	0.2 (4)	0.1 (2)	0.1 (1)	0.0 (0)	0.0 (0)	0.4 (7)
SE	0.0 (0)	0.2 (3)	0.2 (3)	0.3 (6)	0.0 (0)	0.0 (0)	0.6 (12)
SSE	0.1 (2)	0.2 (4)	0.2 (3)	0.2 (3)	0.2 (3)	0.0 (0)	0.8 (15)
S	0.1 (1)	0.3 (5)	1.2 (22)	1.2 (22)	0.3 (6)	0.0 (0)	3.0 (56)
SSW	0.0 (0)	0.2 (3)	0.7 (13)	0.7 (13)	0.1 (1)	0.0 (0)	1.6 (30)
SW	0.1 (1)	0.1 (2)	0.5 (10)	0.4 (7)	0.1 (2)	0.0 (0)	1.2 (22)
WSW	0.2 (3)	0.3 (6)	2.0 (37)	2.3 (42)	0.7 (13)	0.2 (3)	5.6 (104)
W	0.2 (3)	0.8 (14)	1.4 (26)	1.8 (33)	1.4 (26)	0.5 (10)	6.0 (112)
WNW	0.1 (1)	0.3 (5)	0.8 (14)	1.0 (18)	0.4 (8)	0.2 (4)	2.7 (50)
NW	0.1 (1)	0.2 (3)	0.2 (3)	0.5 (10)	0.3 (5)	0.1 (1)	1.2 (23)
NNW	0.2 (3)	0.2 (3)	0.2 (3)	0.4 (7)	0.2 (3)	0.1 (2)	1.1 (21)
TOTAL	1.0 (18)	3.5 (66)	7.8 (145)	9.4 (176)	3.8 (70)	1.4 (26)	26.9 (501)

FOR STABILITY CLASS - D

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 504

NUMBER OF MISSING WIND OBSERVATIONS: 3

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1983 THROUGH SEPT 30 1983

JG120*

STABILITY CLASS - E

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.1 (1)	0.3 (6)	0.3 (5)	0.4 (7)	0.3 (5)	0.2 (3)	1.4 (27)
NNE	0.2 (4)	0.3 (6)	1.0 (19)	0.8 (15)	0.1 (2)	0.3 (5)	2.7 (51)
NE	0.0 (0)	0.1 (1)	0.5 (10)	0.7 (13)	0.1 (1)	0.1 (1)	1.4 (26)
ENE	0.1 (2)	0.3 (5)	0.1 (2)	0.2 (3)	0.0 (0)	0.0 (0)	0.6 (12)
E	0.1 (1)	0.2 (4)	0.2 (4)	0.1 (1)	0.0 (0)	0.0 (0)	0.5 (10)
ESE	0.0 (0)	0.2 (3)	0.4 (7)	0.5 (9)	0.0 (0)	0.0 (0)	1.0 (19)
SE	0.0 (0)	0.2 (3)	0.3 (5)	1.4 (26)	0.2 (4)	0.2 (4)	2.3 (42)
SSE	0.0 (0)	0.3 (5)	0.4 (7)	1.1 (20)	0.9 (17)	0.1 (1)	2.7 (50)
S	0.0 (0)	0.2 (4)	0.5 (10)	2.7 (51)	0.3 (5)	0.0 (0)	3.8 (70)
SSW	0.0 (0)	0.3 (5)	1.0 (19)	2.5 (46)	0.2 (3)	0.0 (0)	3.9 (73)
SW	0.0 (0)	0.4 (8)	0.9 (17)	1.1 (20)	0.3 (6)	0.1 (1)	2.8 (52)
WSW	0.1 (2)	0.6 (12)	1.3 (24)	1.7 (32)	0.7 (13)	0.2 (4)	4.7 (87)
W	0.0 (0)	0.1 (2)	0.5 (9)	0.6 (12)	0.6 (12)	0.3 (6)	2.2 (41)
WNW	0.0 (0)	0.1 (1)	0.3 (6)	0.2 (3)	0.1 (2)	0.1 (1)	0.7 (13)
NW	0.0 (0)	0.0 (0)	0.3 (5)	0.2 (3)	0.2 (4)	0.0 (0)	0.6 (12)
NNW	0.1 (2)	0.1 (1)	0.3 (5)	0.2 (3)	0.0 (0)	0.0 (0)	0.6 (11)
TOTAL	0.6 (12)	3.5 (66)	8.3 (154)	14.2 (264)	4.0 (74)	1.4 (26)	32.0 (596)

FOR STABILITY CLASS - E

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 605

NUMBER OF MISSING WIND OBSERVATIONS: 9

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK
OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1983 THROUGH SEPT 30 1983

JG120*

STABILITY CLASS - F

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-16	19-23	>24	TOTAL
N	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
NNE	0.1 (2)	0.4 (7)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (9)
NE	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
ENE	0.1 (2)	0.2 (4)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (8)
E	0.1 (1)	0.1 (2)	0.6 (11)	0.0 (0)	0.0 (0)	0.0 (0)	0.8 (14)
ESE	0.0 (0)	0.2 (4)	0.3 (5)	0.1 (2)	0.0 (0)	0.0 (0)	0.6 (11)
SE	0.0 (0)	0.1 (2)	0.1 (3)	0.2 (4)	0.0 (0)	0.0 (0)	0.4 (7)
SSE	0.0 (0)	0.1 (1)	0.3 (6)	0.2 (4)	0.0 (0)	0.0 (0)	0.6 (11)
S	0.0 (0)	0.2 (3)	0.2 (3)	1.1 (20)	0.1 (1)	0.0 (0)	1.4 (27)
SSW	0.0 (0)	0.2 (4)	0.4 (8)	1.7 (32)	0.1 (1)	0.0 (0)	2.4 (45)
SW	0.0 (0)	0.2 (4)	0.4 (8)	0.5 (10)	0.0 (0)	0.0 (0)	1.2 (22)
WSW	0.0 (0)	0.4 (8)	0.6 (12)	0.2 (3)	0.0 (0)	0.0 (0)	1.2 (23)
W	0.1 (1)	0.1 (2)	0.0 (0)	0.0 (0)	0.1 (2)	0.0 (0)	0.3 (5)
WNW	0.0 (0)	0.0 (0)	0.1 (2)	0.1 (1)	0.1 (1)	0.0 (0)	0.2 (4)
NW	0.0 (0)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
NNW	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
TOTAL	0.4 (8)	2.5 (47)	3.2 (60)	4.1 (76)	0.3 (5)	0.0 (0)	10.5 (196)

FOR STABILITY CLASS - F

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 198

NUMBER OF MISSING WIND OBSERVATIONS: 2

NUMBER OF CALM HOURS: 0

OSWEGO
NIAGARA MOHAWK
AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1983 THROUGH SEPT 30 1983

JG120*

STABILITY CLASS - G

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	13-18	19-23	>24	TOTAL
N	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
NNE	0.3 (6)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (9)
NE	0.3 (6)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (7)
ENE	0.2 (4)	0.5 (10)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.9 (16)
E	0.0 (0)	0.4 (7)	0.5 (10)	0.0 (0)	0.0 (0)	0.0 (0)	0.9 (17)
ESE	0.2 (3)	0.4 (8)	0.2 (3)	0.2 (4)	0.0 (0)	0.0 (0)	1.0 (18)
SE	0.1 (2)	0.3 (5)	0.1 (2)	0.4 (8)	0.0 (0)	0.0 (0)	0.9 (17)
SSE	0.1 (1)	0.4 (7)	0.3 (5)	0.4 (8)	0.0 (0)	0.0 (0)	1.1 (21)
S	0.0 (0)	0.3 (5)	0.5 (9)	0.5 (10)	0.0 (0)	0.0 (0)	1.3 (25)
SSW	0.0 (0)	0.3 (5)	0.5 (9)	0.8 (14)	0.0 (0)	0.0 (0)	1.6 (29)
SW	0.1 (2)	0.4 (8)	0.9 (17)	0.4 (7)	0.0 (0)	0.0 (0)	1.8 (34)
WSW	0.1 (1)	0.3 (5)	0.3 (6)	0.1 (1)	0.0 (0)	0.0 (0)	0.7 (13)
W	0.2 (3)	0.2 (4)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (8)
WNW	0.1 (1)	0.1 (2)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
NW	0.2 (3)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
NNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
TOTAL	1.8 (33)	3.9 (73)	3.5 (66)	2.8 (52)	0.0 (0)	0.0 (0)	12.0 (224)

FOR STABILITY CLASS - G

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 235

NUMBER OF MISSING WIND OBSERVATIONS: 11

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1983 THROUGH SEPT 30 1983

JG120*

STABILITY CLASS - ALL

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.2 (3)	1.9 (36)	1.6 (30)	1.3 (25)	0.4 (8)	0.4 (8)	5.9 (110)
NNE	0.8 (15)	2.6 (49)	1.4 (27)	1.3 (25)	0.3 (5)	0.4 (8)	6.9 (129)
NE	0.4 (8)	0.9 (16)	0.7 (13)	0.7 (13)	0.2 (4)	0.1 (1)	2.9 (55)
ENE	0.4 (8)	1.1 (20)	0.4 (7)	0.2 (3)	0.0 (0)	0.0 (0)	2.0 (38)
E	0.1 (2)	0.7 (13)	1.4 (27)	0.1 (2)	0.0 (0)	0.0 (0)	2.4 (44)
ESE	0.2 (3)	1.1 (20)	0.9 (17)	0.9 (16)	0.0 (0)	0.0 (0)	3.0 (56)
SE	0.1 (2)	0.9 (16)	0.6 (11)	2.4 (44)	0.2 (4)	0.2 (4)	4.3 (81)
SSE	0.2 (3)	1.0 (18)	1.1 (21)	1.9 (35)	1.1 (21)	0.1 (1)	5.3 (99)
S	0.1 (1)	1.0 (18)	2.5 (47)	5.6 (105)	0.8 (14)	0.0 (0)	9.9 (185)
SSW	0.0 (0)	1.0 (18)	2.7 (50)	6.1 (113)	0.3 (5)	0.0 (0)	10.0 (186)
SW	0.2 (3)	1.2 (22)	2.9 (54)	2.5 (46)	0.4 (8)	0.1 (1)	7.2 (134)
WSW	0.3 (6)	1.8 (33)	5.1 (95)	4.8 (90)	1.6 (29)	0.6 (12)	14.2 (265)
W	0.4 (7)	1.9 (36)	2.9 (54)	2.7 (51)	2.7 (51)	0.9 (17)	11.6 (216)
WNW	0.1 (2)	1.2 (23)	1.8 (34)	1.6 (29)	0.8 (15)	0.4 (8)	6.0 (111)
NW	0.2 (4)	1.3 (24)	0.9 (16)	1.0 (19)	0.5 (10)	0.1 (2)	4.0 (75)
NNW	0.3 (5)	1.0 (18)	1.4 (26)	1.1 (20)	0.2 (4)	0.4 (8)	4.3 (81)
TOTAL	3.9 (72)	20.4 (380)	28.4 (529)	34.1 (636)	9.5 (178)	3.8 (70)	100.0 (1865)

FOR STABILITY CLASS - ALL

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 1898

NUMBER OF MISSING WIND OBSERVATIONS: 33

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1983 THROUGH SEPT 30 1983

JG120*

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.2 (3)	1.9 (36)	1.6 (30)	1.3 (25)	0.4 (8)	0.4 (8)	5.9 (110)
NNE	0.8 (15)	2.6 (49)	1.4 (27)	1.3 (25)	0.3 (5)	0.4 (8)	6.9 (129)
NE	0.4 (8)	0.9 (16)	0.7 (13)	0.7 (13)	0.2 (4)	0.1 (1)	2.9 (55)
ENE	0.4 (8)	1.1 (20)	0.4 (7)	0.2 (3)	0.0 (0)	0.0 (0)	2.0 (38)
E	0.1 (2)	0.7 (13)	1.4 (27)	0.1 (2)	0.0 (0)	0.0 (0)	2.4 (44)
ESE	0.2 (3)	1.1 (20)	0.9 (17)	0.9 (16)	0.0 (0)	0.0 (0)	3.0 (56)
SE	0.1 (2)	0.9 (16)	0.6 (11)	2.4 (44)	0.2 (4)	0.2 (4)	4.3 (81)
SSE	0.2 (3)	1.0 (18)	1.1 (21)	1.9 (35)	1.1 (21)	0.1 (1)	5.3 (99)
S	0.1 (1)	1.0 (18)	2.5 (47)	5.6 (105)	0.7 (14)	0.0 (0)	9.9 (185)
SSW	0.0 (0)	1.0 (18)	2.7 (50)	6.1 (113)	0.3 (5)	0.0 (0)	10.0 (186)
SW	0.2 (3)	1.2 (22)	2.9 (54)	2.5 (46)	0.4 (8)	0.1 (1)	7.2 (134)
WSW	0.3 (6)	1.8 (33)	5.1 (96)	4.8 (90)	1.6 (29)	0.6 (12)	14.2 (266)
W	0.4 (7)	1.9 (36)	2.9 (55)	2.7 (51)	2.7 (51)	0.9 (17)	11.6 (217)
WNW	0.1 (2)	1.2 (23)	1.8 (34)	1.6 (29)	0.8 (15)	0.4 (8)	5.9 (111)
NW	0.2 (4)	1.3 (24)	0.9 (16)	1.0 (19)	0.5 (10)	0.1 (2)	4.0 (75)
NNW	0.3 (5)	1.0 (18)	1.4 (26)	1.1 (20)	0.2 (4)	0.4 (8)	4.3 (81)
TOTAL	3.9 (72)	20.4 (380)	28.4 (531)	34.1 (636)	9.5 (178)	3.7 (70)	100.0 (1867)

FOR ALL WIND CATEGORIES

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2208

NUMBER OF MISSING WIND OBSERVATIONS: 341

NUMBER OF CALM HOURS: 0

***** LEGEND *****
 % FREQUENCY OF WIND DIRECTION WITHIN WIND SPEED CATEGORY
 *** BY STABILITY ***

JG120*

SITE: NINE MILE UPPER: WIND SPEED UPPER - 200FT AEROVANE
 WIND DIRECTION UPPER - 200FT AEROVANE
 TEMPERATURE DIFFERENCE - (200-27FT)

NINE MILE LOWER: WIND SPEED LOWER - 30FT CUP
 WIND DIRECTION LOWER - 30FT CUP
 TEMPERATURE DIFFERENCE - (200-27FT)

STABILITY CLASS: PASQUILL STABILITY CATEGORIES - DEGC/100M

A - EXTREMELY UNSTABLE	LT -1.9
B - MODERATELY UNSTABLE	-1.8 TO -1.7
C - SLIGHTLY UNSTABLE	-1.6 TO -1.5
D - NEUTRAL	-1.4 TO -0.5
E - SLIGHTLY STABLE	-0.4 TO 1.5
F - MODERATELY STABLE	1.6 TO 4.0
G - EXTREMELY STABLE	GT 4.0
ALL - ALL STABILITIES (A-G)	ALL
() - ALL WIND	N/A

WIND CLASS: SIX WIND SPEED CATEGORIES - (SEE TABLE HEADINGS) MPH

SIXTEEN WIND DIRECTION CATEGORIES - 22.5 DEG

NOTE: THE DATA CAPTURE STATISTICS ARE GIVEN FOR EACH OF THE NINE CATEGORIES LISTED ABOVE.

CALM WINDS ARE LISTED IN THE 0-3 WIND SPEED CATEGORY.

NIAGARA MOHAWK
OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1983 THROUGH DEC 31 1983

JG120*

STABILITY CLASS - A

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.0 (0)	0.1 (3)	0.1 (2)	0.1 (3)	0.0 (1)	0.0 (1)	0.5 (10)
NNE	0.0 (0)	0.1 (3)	0.1 (3)	0.3 (6)	0.0 (0)	0.0 (0)	0.6 (12)
NE	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
ENE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
ESE	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
SE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (1)
SSE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (1)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)	0.0 (0)	0.1 (2)	0.2 (4)
WSW	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (1)	0.8 (17)	1.0 (20)
W	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (6)	0.3 (6)
WNW	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (1)	0.5 (10)	1.3 (27)	1.9 (39)
NW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)	0.3 (6)	0.5 (10)
NNW	0.0 (0)	0.1 (3)	0.0 (0)	0.1 (3)	0.1 (3)	0.5 (10)	0.9 (19)
TOTAL	0.0 (0)	0.5 (11)	0.4 (9)	0.8 (17)	0.9 (19)	3.3 (69)	5.9 (125)

FOR STABILITY CLASS - A

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 129

NUMBER OF MISSING WIND OBSERVATIONS: 4

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

AMBIENT AIR MONITORING

OSWEGO

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1983 THROUGH DEC 31 1983

JG120*

STABILITY CLASS - B

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

D\K	00-03	04-07	08-12	13-18	19-23	>24	TOTAL
N	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NNE	0.0 (0)	0.0 (1)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
NE	0.0 (0)	0.0 (1)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
ENE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
ESE	0.0 (0)	0.0 (1)	0.1 (2)	0.0 (1)	0.0 (0)	0.0 (0)	0.2 (4)
SE	0.0 (0)	0.0 (1)	0.0 (0)	0.1 (3)	0.0 (0)	0.0 (0)	0.2 (4)
SSE	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (1)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (1)	0.0 (0)	0.1 (2)
WSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)	0.1 (3)	0.2 (4)
W	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (7)	0.3 (7)
WNW	0.0 (0)	0.0 (1)	0.0 (1)	0.1 (2)	0.0 (0)	0.4 (9)	0.5 (11)
NW	0.0 (0)	0.0 (0)	0.0 (1)	0.2 (4)	0.0 (0)	0.6 (13)	0.9 (19)
NNW	0.0 (0)	0.0 (0)	0.1 (2)	0.0 (1)	0.0 (1)	0.4 (8)	0.6 (12)
TOTAL	0.0 (0)	0.3 (7)	0.4 (8)	0.6 (13)	0.3 (6)	2.0 (42)	3.6 (76)

FOR STABILITY CLASS - B

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 80

NUMBER OF MISSING WIND OBSERVATIONS: 4

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1983 THROUGH DEC 31 1983

JG120*

STABILITY CLASS - C

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (1)	0.0 (0)	0.0 (0)	0.1 (2)
NNE	0.0 (1)	0.1 (2)	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (1)	0.4 (8)
NE	0.0 (0)	0.0 (1)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
ENE	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
E	0.0 (0)	0.1 (3)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
ESE	0.0 (0)	0.1 (2)	0.1 (3)	0.0 (1)	0.0 (0)	0.0 (0)	0.3 (6)
SE	0.0 (0)	0.2 (4)	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.4 (8)
SSE	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.1 (2)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (1)	0.0 (0)	0.1 (2)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (3)	0.2 (5)	0.4 (8)
WSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (9)	0.4 (9)
W	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)	0.1 (3)	0.5 (11)	0.8 (16)
WNW	0.0 (0)	0.0 (0)	0.1 (2)	0.2 (4)	0.2 (5)	0.4 (9)	1.0 (20)
NW	0.0 (0)	0.0 (0)	0.0 (1)	0.1 (3)	0.5 (10)	0.4 (8)	1.0 (22)
NNW	0.0 (0)	0.1 (2)	0.1 (3)	0.0 (0)	0.0 (1)	0.0 (0)	0.3 (6)
TOTAL	0.0 (1)	0.8 (16)	0.8 (16)	0.8 (17)	1.1 (22)	2.0 (43)	5.5 (116)

FOR STABILITY CLASS - C

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 117

NUMBER OF MISSING WIND OBSERVATIONS: 1

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1983 THROUGH DEC 31 1983

JG120*

STABILITY CLASS - D

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.0 (1)	0.0 (1)	0.3 (6)	0.4 (8)	0.1 (2)	0.2 (5)	1.1 (23)
NNE	0.1 (3)	0.7 (14)	1.2 (26)	1.1 (24)	1.0 (20)	0.9 (19)	5.0 (106)
NE	0.2 (5)	0.9 (19)	0.3 (7)	0.5 (11)	0.0 (1)	0.0 (0)	2.0 (43)
ENE	0.0 (0)	0.4 (8)	0.2 (5)	0.0 (0)	0.0 (0)	0.0 (0)	0.6 (13)
E	0.1 (3)	0.5 (10)	0.9 (19)	0.7 (14)	0.0 (0)	0.0 (1)	2.2 (47)
ESE	0.2 (4)	0.5 (11)	1.1 (24)	1.8 (38)	0.8 (16)	0.3 (7)	4.8 (100)
SE	0.1 (2)	0.3 (6)	1.1 (24)	1.0 (20)	0.7 (15)	0.2 (4)	3.4 (71)
SSE	0.0 (1)	0.6 (13)	1.0 (20)	0.3 (6)	0.1 (3)	0.0 (0)	2.0 (43)
S	0.0 (0)	0.3 (6)	0.9 (19)	0.8 (17)	0.0 (0)	0.0 (0)	2.0 (42)
SSW	0.0 (0)	0.0 (1)	1.4 (30)	2.7 (56)	0.6 (12)	0.0 (0)	4.7 (99)
SW	0.1 (3)	0.2 (4)	0.3 (6)	1.0 (22)	1.0 (22)	1.0 (20)	3.7 (77)
WSW	0.1 (2)	0.3 (6)	0.4 (8)	0.4 (8)	0.5 (11)	2.9 (60)	4.5 (95)
W	0.0 (0)	0.2 (5)	0.3 (6)	1.3 (27)	1.5 (31)	1.9 (40)	5.2 (109)
WNW	0.1 (2)	0.2 (4)	0.4 (9)	1.3 (27)	0.6 (13)	1.1 (23)	3.7 (78)
NW	0.0 (1)	0.1 (2)	0.5 (10)	0.7 (14)	1.0 (21)	0.4 (9)	2.7 (57)
NNW	0.0 (0)	0.3 (6)	0.5 (11)	0.5 (10)	0.1 (3)	0.1 (3)	1.6 (33)
TOTAL	1.3 (27)	5.5 (116)	10.9 (230)	14.3 (302)	8.1 (170)	9.1 (191)	49.2 (1036)

FOR STABILITY CLASS - D

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 1054

NUMBER OF MISSING WIND OBSERVATIONS: 18

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (C) DATA FOR OCT 1 1983 THROUGH DEC 31 1983

JG120*

STABILITY CLASS - E

2 FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.0 (1)	0.0 (0)	0.0 (1)	0.1 (2)	0.0 (1)	0.0 (0)	0.2 (5)
NNE	0.0 (0)	0.2 (4)	0.0 (1)	0.6 (13)	0.2 (4)	0.0 (0)	1.0 (22)
NNE	0.1 (3)	0.5 (10)	0.0 (9)	0.2 (5)	0.0 (1)	0.0 (0)	1.3 (28)
E	0.2 (4)	0.3 (7)	0.3 (7)	0.0 (0)	0.0 (0)	0.0 (0)	0.9 (18)
E	0.0 (1)	0.2 (4)	0.3 (9)	0.1 (3)	0.0 (1)	0.1 (3)	1.0 (21)
ESE	0.0 (1)	0.0 (13)	2.3 (49)	2.6 (54)	0.9 (18)	0.1 (2)	6.5 (137)
SE	0.0 (1)	0.4 (9)	1.4 (30)	2.5 (53)	0.8 (17)	0.1 (3)	5.4 (113)
SSE	0.1 (2)	0.1 (2)	0.9 (18)	1.4 (29)	0.2 (5)	0.0 (0)	2.7 (56)
S	0.0 (0)	0.2 (5)	0.8 (17)	1.5 (31)	0.1 (3)	0.0 (0)	2.7 (56)
SSW	0.0 (1)	0.2 (5)	0.6 (13)	1.0 (21)	0.0 (1)	0.0 (0)	1.9 (41)
SW	0.0 (1)	0.2 (4)	0.3 (7)	0.7 (14)	0.3 (7)	0.0 (1)	1.6 (34)
WSW	0.0 (0)	0.0 (1)	0.1 (3)	0.3 (6)	0.1 (3)	0.7 (15)	1.3 (28)
W	0.0 (0)	0.1 (2)	0.0 (1)	0.1 (2)	0.0 (1)	0.2 (4)	0.5 (10)
WNW	0.0 (1)	0.1 (2)	0.0 (1)	0.1 (2)	0.2 (4)	0.2 (4)	0.7 (14)
NW	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (1)	0.1 (3)	0.0 (0)	0.3 (6)
NNW	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (1)	0.1 (2)	0.2 (4)
TOTAL	0.8 (16)	3.4 (7)	7.9 (166)	11.2 (236)	3.3 (70)	1.6 (34)	28.2 (593)

FOR STABILITY CLASS - E

NUMBER OF POSSIBLE HOURLY OF ERVATIONS: 597

NUMBER OF MISSING WIND OBSERVATIONS: 4

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1983 THROUGH DEC 31 1983

JG120*

STABILITY CLASS - F

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NNE	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
NE	0.0 (1)	0.1 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (4)
ENE	0.1 (2)	0.4 (8)	0.2 (5)	0.0 (0)	0.0 (0)	0.0 (0)	0.7 (15)
E	0.0 (1)	0.1 (2)	0.4 (9)	0.2 (4)	0.0 (0)	0.0 (0)	0.8 (16)
ESE	0.0 (0)	0.1 (2)	0.2 (4)	0.5 (10)	0.0 (1)	0.0 (0)	0.8 (17)
SE	0.0 (1)	0.0 (1)	0.1 (2)	0.5 (11)	0.0 (0)	0.0 (0)	0.7 (15)
SSE	0.0 (1)	0.0 (1)	0.0 (1)	0.1 (3)	0.0 (0)	0.0 (0)	0.3 (6)
S	0.0 (0)	0.0 (1)	0.1 (2)	0.4 (9)	0.0 (0)	0.0 (0)	0.6 (12)
SSW	0.0 (0)	0.0 (1)	0.0 (1)	0.1 (3)	0.0 (0)	0.0 (0)	0.2 (5)
SW	0.0 (0)	0.1 (2)	0.2 (4)	0.1 (2)	0.0 (1)	0.0 (0)	0.4 (9)
WSW	0.0 (1)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (1)	0.1 (3)	0.3 (6)
W	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
WNW	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
NW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
TOTAL	0.3 (7)	1.1 (24)	1.4 (29)	2.0 (42)	0.1 (3)	0.1 (3)	5.1 (108)

FOR STABILITY CLASS - F

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 111

NUMBER OF MISSING WIND OBSERVATIONS: 3

NUMBER OF CALM HOURS: 1

NIAGARA MOHAWK
OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1983 THROUGH DEC 31 1983

JG120*

STABILITY CLASS - G

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	13-18	19-23	>24	TOTAL
N	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NNE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NE	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
ENE	0.0 (0)	0.1 (2)	0.2 (4)	0.0 (1)	0.0 (0)	0.0 (0)	0.3 (7)
E	0.0 (0)	0.1 (2)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (3)
ESE	0.0 (0)	0.1 (2)	0.1 (3)	0.1 (2)	0.0 (0)	0.0 (0)	0.3 (7)
SE	0.0 (0)	0.1 (2)	0.2 (4)	0.1 (2)	0.0 (0)	0.0 (0)	0.4 (8)
SSE	0.0 (1)	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (3)
S	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
SSW	0.1 (2)	0.0 (1)	0.2 (5)	0.2 (4)	0.0 (0)	0.0 (0)	0.6 (12)
SW	0.0 (1)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (3)
WSW	0.0 (1)	0.1 (2)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
W	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
WNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
TOTAL	0.3 (6)	0.7 (15)	1.0 (21)	0.4 (9)	0.0 (0)	0.0 (0)	2.4 (51)

FOR STABILITY CLASS -- G

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 52

NUMBER OF MISSING WIND OBSERVATIONS: 1

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1983 THROUGH DEC 31 1983

JG120*

STABILITY CLASS - ALL

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.1 (2)	0.2 (4)	0.5 (10)	0.7 (14)	0.2 (4)	0.3 (6)	1.9 (40)
NNE	0.2 (4)	1.2 (25)	1.6 (33)	2.1 (45)	1.1 (24)	1.0 (20)	7.2 (151)
NE	0.4 (9)	1.6 (34)	1.0 (20)	0.8 (16)	0.1 (2)	0.0 (0)	3.8 (81)
ENE	0.3 (6)	1.2 (26)	1.0 (21)	0.0 (1)	0.0 (0)	0.0 (0)	2.6 (54)
E	0.2 (5)	1.0 (22)	1.9 (40)	1.0 (21)	0.0 (1)	0.2 (4)	4.4 (93)
ESE	0.2 (5)	1.5 (31)	4.1 (86)	5.0 (106)	1.7 (35)	0.4 (9)	12.9 (272)
SE	0.2 (4)	1.1 (23)	2.9 (62)	4.4 (92)	1.5 (32)	0.3 (7)	10.5 (220)
SSE	0.2 (5)	0.8 (17)	2.0 (42)	1.9 (39)	0.4 (8)	0.0 (0)	5.3 (111)
S	0.0 (0)	0.7 (14)	1.8 (38)	2.8 (58)	0.1 (3)	0.0 (0)	5.4 (113)
SSW	0.1 (3)	0.4 (8)	2.3 (49)	4.1 (87)	0.7 (15)	0.0 (0)	7.7 (162)
SW	0.2 (5)	0.6 (12)	0.8 (17)	1.9 (40)	1.6 (34)	1.5 (31)	6.6 (139)
WSW	0.2 (4)	0.5 (11)	0.6 (13)	0.7 (14)	0.8 (16)	5.3 (111)	8.0 (169)
W	0.0 (1)	0.4 (8)	0.3 (7)	1.6 (33)	1.7 (35)	3.3 (70)	7.3 (154)
WNW	0.1 (3)	0.4 (8)	0.7 (14)	1.8 (38)	1.5 (32)	3.6 (76)	8.1 (171)
NW	0.0 (1)	0.2 (4)	0.6 (13)	0.9 (19)	1.9 (39)	1.5 (31)	5.1 (107)
NNW	0.0 (0)	0.6 (13)	0.7 (14)	0.6 (13)	0.5 (11)	0.8 (17)	3.2 (68)
TOTAL	2.7 (57)	12.4 (260)	22.8 (479)	30.2 (636)	13.8 (291)	18.1 (382)	100.0 (2105)

FOR STABILITY CLASS - ALL

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2140

NUMBER OF MISSING WIND OBSERVATIONS: 35

NUMBER OF CALM HOURS: 1

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1983 THROUGH DEC 31 1983

JG120*

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.1 (2)	0.2 (4)	0.5 (10)	0.7 (14)	0.2 (4)	0.3 (6)	1.9 (40)
NNE	0.2 (4)	1.2 (25)	1.5 (33)	2.1 (45)	1.1 (24)	0.9 (20)	7.1 (151)
NE	0.4 (9)	1.7 (36)	1.0 (21)	0.7 (16)	0.1 (2)	0.0 (0)	3.9 (84)
ENE	0.3 (6)	1.2 (26)	1.0 (21)	0.0 (1)	0.0 (0)	0.0 (0)	2.5 (54)
E	0.2 (5)	1.0 (22)	1.9 (40)	1.0 (21)	0.0 (1)	0.2 (4)	4.4 (93)
ESE	0.2 (5)	1.5 (31)	4.0 (86)	5.1 (109)	1.6 (35)	0.4 (9)	12.9 (275)
SE	0.2 (4)	1.1 (23)	3.0 (64)	4.4 (95)	1.5 (32)	0.3 (7)	10.5 (225)
SSE	0.2 (5)	0.8 (17)	2.2 (47)	1.9 (41)	0.4 (8)	0.0 (0)	5.5 (118)
S	0.0 (0)	0.7 (14)	1.9 (41)	2.8 (59)	0.1 (3)	0.0 (0)	5.5 (117)
SSW	0.1 (3)	0.4 (8)	2.4 (52)	4.4 (93)	0.7 (15)	0.0 (0)	8.0 (171)
SW	0.2 (5)	0.6 (12)	0.8 (17)	1.9 (40)	1.6 (35)	1.5 (31)	6.6 (140)
WSW	0.2 (4)	0.5 (11)	0.6 (13)	0.7 (14)	0.7 (16)	5.2 (111)	7.9 (169)
W	0.0 (1)	0.4 (8)	0.3 (7)	1.5 (33)	1.6 (35)	3.3 (70)	7.2 (154)
WNW	0.1 (3)	0.4 (8)	0.7 (14)	1.8 (38)	1.5 (32)	3.6 (76)	8.0 (171)
NW	0.0 (1)	0.2 (4)	0.6 (13)	0.9 (19)	1.8 (39)	1.5 (31)	5.0 (107)
NNW	0.0 (0)	0.6 (13)	0.7 (14)	0.6 (13)	0.5 (11)	0.8 (17)	3.2 (68)
TOTAL	2.7 (57)	12.3 (262)	23.1 (493)	30.5 (651)	13.7 (292)	17.9 (382)	100.0 (2137)

FOR ALL WIND CATEGORIES

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2203

NUMBER OF MISSING WIND OBSERVATIONS: 71

NUMBER OF CALM HOURS: 1

James A. FitzPatrick
Nuclear Power Plant
P.O. Box 41
Lycoming, New York 13093
315 342.3840



**New York Power
Authority**

Corbin McNeill
Resident Manager

February 27, 1984
JAFP-84-0221

United States Nuclear
Regulatory Commission
Region 1
631 Park Avenue
King Of Prussia, PA 19406

Attention: Thomas E. Murley
Regional Administrator

SUBJECT: JAMES A. FITZPATRICK NUCLEAR POWER PLANT
DOCKET NO. 50-333, LICENSE NO. DPR-59

Gentlemen:

In accordance with the requirements in Appendix B of the James A. FitzPatrick Nuclear Power Plant Technical Specifications Section 5.6.1 b (Facility Operating License No. DPR-59, Docket No. 50-333), we submit the Radioactive Effluent Release Report for the period July 1, 1983 through December 31, 1983.

The format used is as outlined in Regulatory Guide 1.21.

Meteorological data, in accordance with Regulatory Guide 1.23, is included.

Distribution for this report is in accordance with Regulatory Guide 10.1.

Very truly yours,

CORBIN A. MCNEILL, JR.

CAM:EAM:jaa

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