

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

JULY 1982 - DECEMBER 1982

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 SEMIANNUAL REPORT/JULY 1982 - DECEMBER 1982  
 SUPPLEMENTAL INFORMATION

UTILITY: JAFNPP LICENSEE: POWER AUTHORITY OF THE STATE OF NEW YORK

1. Regulatory Limits

a. Fission and activation gases:

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

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

$\text{MPC}_i$  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 (<math>\mu</math>Ci/cc)</u>	<u>Nuclide</u>	<u>MPC (<math>\mu</math>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)	7.92E-06 $\mu$ Ci/ml	Quarter 3
(2)	1.46E-05 $\mu$ Ci/ml	Quarter 4

3.	<u>Average Energy, <math>\bar{E}</math></u>	Unit	Quarter 3	Quarter 4
a.	Elevated release:	MeV	5.13E-01	5.21E-01
b.	Ground level release:	MeV	4.63E-01	1.25E-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:	58	92
(2) Total time period for batch releases:	22 hrs.	38.64 hrs.
(3) Maximum time period for batch release:	1.5 hrs.	1.5 hrs.
(4) Average time period for batch release:	0.38 hrs.	0.42 hrs.
(5) Minimum time period for batch release:	0.17 hrs.	0.15 hrs.
(6) Average stream flow:	(Not applicable)	

### 6. Abnormal Releases

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



TABLE 1A

POWER AUTHORITY OF THE STATE OF NEW YORK  
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 SEMIANNUAL REPORT/JULY 1982 - DECEMBER 1982  
 GASEOUS EFFLUENTS--SUMMATION OF ALL RELEASES

	UNIT	QUARTER 3	QUARTER 4	EST. TOTAL ERROR %
A. FISSION AND ACTIVATION GASES				
1. Total release	Ci	5.95E+04	4.09E+04	1.00E+01
2. Average release rate for period	$\mu$ Ci/sec	7.49E+03	5.15E+03	
3. Tech. Spec. limit	%	*	*	
B. IODINES				
1. Total Iodine-131	Ci	1.16E-01	9.17E-02	1.00E+01
2. Average release rate for period	$\mu$ Ci/sec	1.46E-02	1.15E-02	
3. Tech. Spec. limit	%	*	*	
C. PARTICULATES				
1. Particulates with half-lives >8 days	Ci	1.65E-01	1.62E-01	1.00E+01
2. Average release rate for period	$\mu$ Ci/sec	2.08E-02	2.04E-02	
3. Tech. Spec. limit	%	*	*	
4. Gross alpha radioactivity	Ci	1.62E-02	1.48E-03	1.00E+01
D. TRITIUM				
1. Total release	Ci	2.28	1.59	1.00E+01
2. Average release rate for period	$\mu$ Ci/sec	2.86E-01	2.01E-01	
*E. PERCENT OF TECHNICAL SPECIFICATION LIMITS				
FISSION AND ACTIVATION GASES				
1. JAF elevated release	%	5.4 E-01	3.61E-01	
2. NMP-1 elevated release	%	S/D	S/D	
3. JAF ground level release	%	2.25E-01	3.76E-01	
4. Total site release	%	7.65E-01	7.37E-01	
HALOGENS AND PARTICULATES WITH HALF-LIVES >8 DAYS				
5. JAF elevated release	%	7.85E-01	6.23E-01	
6. NMP-1 elevated release	%	1.11E-02	1.18E-02	
7. JAF ground level release	%	1.19E 00	2.89E 00	
8. Total site release	%	1.99E 00	3.53E 00	

S/D - Shutdown.

TABLE 1B

POWER AUTHORITY OF THE STATE OF NEW YORK  
 JAMES A. FITZPATRICK NUCLEAR POWER PLANT  
 EFFLUENT AND WASTE DISPOSAL  
 SEMIANNUAL REPORT/JULY 1982 - DECEMBER 1982  
 GASEOUS EFFLUENTS--ELEVATED RELEASE

CONTINUOUS MODE			
NUCLIDES RELEASED	UNIT	QUARTER 3	QUARTER 4
1. <u>Fission gases</u>			
Nitrogen-13	Ci	9.25E+02	1.29E+03
Argon-41	Ci	3.49E+01	6.96E+01
Krypton-85m	Ci	3.21E+03	2.59E+03
Krypton-87	Ci	4.11E+03	2.87E+03
Krypton-88	Ci	6.54E+03	4.84E+03
Xenon-131m	Ci	1.08E+03	6.41E+03
Xenon-133	Ci	8.76E+03	4.75E+03
Xenon-133m	Ci	3.53E+02	2.49E+01
Xenon-135	Ci	1.72E+04	1.35E+04
Xenon-135m	Ci	1.83E+03	5.36E+02
Xenon-138	Ci	5.19E+03	1.57E+03
2. <u>Iodines</u>			
Iodine-131	Ci	1.08E-01	7.19E-02
Iodine-133	Ci	4.32E-01	3.04E-04
Iodine-135	Ci	2.78E-01	ND
3. <u>Particulates</u>			
Manganese-54	Ci	2.60E-04	3.27E-04
Cobalt-58	Ci	ND	1.71E-05
Cobalt-60	Ci	9.35E-07	8.56E-06
Zirconium-Niobium-95	Ci	9.84E-07	ND
Strontium-89	Ci	1.58E-01	1.58E-01
Cesium-137	Ci	3.29E-03	1.94E-04
Barium-Lanthanum-140	Ci	1.86E-03	1.29E-04
Chromium-51	Ci	ND	3.97E-05
Strontium-90	Ci	1.48E-04	1.48E-04

There are no batch releases for this period.

ND - None detected.

TABLE 1C

POWER AUTHORITY OF THE STATE OF NEW YORK  
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 SEMIANNUAL REPORT/JULY 1982 - DECEMBER 1982  
 GASEOUS EFFLUENTS--GROUND LEVEL RELEASES

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE	
		QUARTER 3	QUARTER 4
1. <u>Fission gases</u>			
Nitrogen-13	Ci	1.85E+01	1.93E+01
Krypton-85m	Ci	ND	ND
Krypton-87	Ci	1.32E+01	ND
Krypton-88	Ci	ND	ND
Xenon-133	Ci	4.72E+01	1.87E+03
Xenon-135	Ci	1.54E+02	1.75E+02
Xenon-135m	Ci	2.09E+02	2.63E+02
Xenon-138	Ci	4.05E+01	3.95E+01
2. <u>Iodines</u>			
Iodine-131	Ci	8.03E-03	1.98E-02
Iodine-133	Ci	1.19E-02	1.07E-01
Iodine-135	Ci	1.59E-02	1.61E-01
3. <u>Particulates</u>			
Chromium-51	Ci	3.78E-05	ND
Manganese-54	Ci	4.23E-05	1.14E-04
Cobalt-58	Ci	ND	ND
Cobalt-60	Ci	6.02E-04	8.28E-04
Strontium-89	Ci	2.89E-04	2.89E-04
Zirconium-Niobium-95	Ci	ND	ND
Cesium-134	Ci	5.17E-05	9.34E-05
Cesium-137	Ci	7.06E-05	7.74E-05
Barium-Lanthanum-140	Ci	7.13E-04	2.06E-03
Cerium-141	Ci	2.77E-05	2.05E-05
Strontium-90	Ci	2.50E-06	2.50E-06

There are no batch releases for this period.

ND - None detected.

TABLE 2A

POWER AUTHORITY OF THE STATE OF NEW YORK  
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 SEMIANNUAL REPORT/JULY 1982 - DECEMBER 1982  
 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	1.04E-02	7.00E-02	1.00E+01
2. Average diluted concentration during period	$\mu$ Ci/ml	5.33E-11	3.80E-10	
3. Applicable limit	%	6.73E-04	2.61E-03	
B. TRITIUM				
1. Total release	Ci	1.71E-02	1.65E-01	1.00E+01
2. Average diluted concentration during period	$\mu$ Ci/ml	8.77E-11	8.97E-10	
3. Applicable limit	%	2.92E-06	2.99E-05	
C. DISSOLVED AND ENTRAINED GASES				
1. Total release	Ci	9.75E-05	1.04E-02	1.00E+01
2. Average diluted concentration during period	$\mu$ Ci/ml	5.00E-13	5.63E-11	
3. Applicable limit	%	5.00E-17	5.63E-15	
D. GROSS ALPHA RADIOACTIVITY				
Total release	Ci	6.96E-06	7.75E-05	1.00E+01
E. VOLUME OF WASTE RELEASED (PRIOR TO DILUTION)				
	Liters	1.83E+05	7.51E+05	1.00E+01
F. VOLUME OF DILUTION WATER USED DURING PERIOD				
	Liters	1.95E+11	1.84E+11	1.00E+01

TABLE 2B

POWER AUTHORITY OF THE STATE OF NEW YORK  
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 SEMIANNUAL REPORT/JULY 1982 - DECEMBER 1982  
 LIQUID EFFLUENTS

NUCLIDES RELEASED	UNIT	BATCH MODE	
		QUARTER 3	QUARTER 4
Silver-110m	Ci	ND	ND
Cesium-134	Ci	9.63E-05	2.35E-03
Cesium-137	Ci	2.82E-04	2.94E-03
Iodine-131	Ci	1.57E-04	7.44E-04
Iodine-133	Ci	4.22E-04	4.99E-04
Iodine-135	Ci	5.08E-05	6.12E-05
Barium-Lanthanum-140	Ci	3.48E-05	1.63E-03
Cobalt-58	Ci	7.53E-05	4.50E-03
Cobalt-60	Ci	7.48E-03	2.02E-02
Iron-59	Ci	3.31E-05	1.10E-04
Zinc-65	Ci	5.10E-05	2.27E-03
Manganese-54	Ci	1.15E-03	2.47E-03
Chromium-51	Ci	2.59E-04	8.15E-04
Antimony-124	Ci	2.16E-06	9.01E-06
Molybdenum-99	Ci	2.63E-05	4.94E-05
Technetium-99m	Ci	3.69E-07	1.19E-05
Cerium-141	Ci	ND	1.68E-05
Cerium-144	Ci	2.23E-06	ND
Zirconium-Niobium-95	Ci	7.07E-06	6.78E-06
Sodium-24	Ci	ND	1.57E-03
Arsenic-76	Ci	2.16E-05	ND
Neptunium-239	Ci	ND	1.87E-02
Xenon-133	Ci	3.34E-05	7.95E-03
Xenon-135	Ci	6.43E-05	2.47E-03
Krypton-85m	Ci	ND	ND
Strontium-90	Ci	ND	ND
Strontium-89	Ci	1.39E-04	1.39E-04

There are no continuous mode discharges for this period.

ND - None detected.



TABLE 3

POWER AUTHORITY OF THE STATE OF NEW YORK  
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 SEMIANNUAL REPORT/JULY 1982 - DECEMBER 1982  
 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. SOLID WASTE SHIPPED OFF-SITE FOR BURIAL OR DISPOSAL (NOT IRRADIATED FUEL)

1. <u>Type of Waste</u>	UNIT	SIX-MONTH PERIOD	EST. TOTAL ERROR %
a. Spent resins, filter sludges	m <sup>3</sup>	120.2	1.00E+01
evaporator bottoms, etc.	Ci	354.77	1.00E+01
b. Dry compressible waste,	m <sup>3</sup>	445.2	1.00E+01
contaminated equipment, etc.	Ci	8.11	1.00E+01
c. Irradiated components (None)			
d. Other (None)			

2. Estimate of Major Nuclide Composition

Cobalt-60	77.6 %	1.00E+01
Manganese-54	7.35%	
Cobalt-58	0.8 %	
Cesium-137	7.25%	
Zinc-65	0.6 %	
Cesium-134	4.38%	
Cerium-144	0.58%	

3. Solid Waste Disposition

SHIPMENT	QTY.	TRANSPORTATION MODE	DESTINATION
Type a	27	Truck	Barnwell, SC
Type b	16	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 and 1C  
Third Quarter Sr-89 and Sr-90 results used for Fourth Quarter calculations.
- 3) Table 2A, Section B  
November 1982 tritium results used for December 1982 tritium calculations.
- 4) Table 2B  
Third Quarter Sr-89 and Sr-90 results used for Fourth Quarter calculations.
- 5) 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 1982 - DECEMBER 1982

EXCEPTIONS TO THE PROGRAM

1. Environmental radiation monitor C offsite was inoperable from October 1, 1982 (1200 hours) to October 7, 1982 (0800 hours). Inoperability was due to vandalism. The radiation detector cable was cut and the detector itself was removed and stolen. As a result of the cut, the radiation monitor short circuited and was damaged.
2. The air sampling pump at the J onsite environmental sampling station was inoperable from October 7, 1982 (1000 hours) to October 12, 1982 (1330 hours). Inoperability was caused by an electrical malfunction.
3. Environmental sampling station D-1 was found off its normal mounting structure (utility pole). The station was de-energized on October 21, 1982 to prevent any safety hazards. The radiation monitor sustained damage during the fall and required repair. The sampling station was reactivated after the installation of a new support structure. The total inoperability period of the D-1 onsite station was October 20, 1982 (0940 hours) to October 29, 1982 (1500 hours).
4. The air sampling pump at the J onsite environmental sampling station was inoperable from November 12, 1982 (1000 hours) to November 15, 1982 (0945 hours). Inoperability was caused by pump mechanical problems.

\*\*\*\*\* 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 1982 THROUGH SEPT 30 1982

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 (6)	0.1 (2)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (9)
NNE	0.0 (0)	0.5 (9)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (9)
NE	0.2 (3)	1.1 (21)	0.0 (0)	0.0 (2)	0.0 (0)	0.0 (0)	1.3 (26)
ENE	0.0 (0)	0.2 (4)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (5)
E	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
ESE	0.2 (4)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (5)
SE	0.0 (0)	0.1 (2)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
SSE	0.0 (0)	0.4 (7)	0.4 (7)	0.0 (0)	0.0 (0)	0.0 (0)	0.7 (14)
S	0.0 (0)	0.1 (2)	0.3 (5)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (7)
SSW	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
SW	0.0 (0)	0.2 (3)	0.2 (3)	0.1 (1)	0.1 (1)	0.0 (0)	0.4 (8)
WSW	0.0 (0)	0.1 (2)	0.1 (1)	0.2 (4)	0.0 (0)	0.1 (2)	0.5 (9)
W	0.2 (3)	0.4 (7)	0.1 (2)	0.1 (2)	0.1 (1)	0.0 (0)	0.8 (15)
WNW	0.5 (10)	0.9 (18)	0.3 (5)	0.2 (4)	0.1 (2)	0.0 (0)	2.0 (39)
NW	0.6 (11)	0.7 (14)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.3 (25)
NNW	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
TOTAL	2.0 (39)	4.8 (96)	1.4 (27)	0.7 (13)	0.3 (5)	0.1 (2)	9.1 (182)

#### FOR STABILITY CLASS - A

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 182

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0



# NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1982 THROUGH SEPT 30 1982

\*

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	0.2 ( 4)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.3 ( 6)
NNE	0.1 ( 1)	0.2 ( 3)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.3 ( 5)
NE	0.1 ( 2)	0.3 ( 5)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.4 ( 7)
ENE	0.1 ( 1)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 2)
E	0.0 ( 0)	0.1 ( 1)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 2)
ESE	0.0 ( 0)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 2)
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)	0.2 ( 3)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.2 ( 3)
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)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 1)
SW	0.0 ( 0)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 1)
WSW	0.0 ( 0)	0.1 ( 1)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 1)
W	0.1 ( 1)	0.2 ( 4)	0.2 ( 4)	0.2 ( 3)	0.1 ( 1)	0.0 ( 0)	0.3 ( 6)
WNW	0.1 ( 1)	0.3 ( 6)	0.2 ( 3)	0.2 ( 3)	0.1 ( 1)	0.0 ( 0)	0.8 ( 15)
NNW	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)
NNW	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 1)
TOTAL	0.6 ( 11)	1.6 ( 32)	0.5 ( 10)	0.6 ( 11)	0.2 ( 3)	0.0 ( 0)	3.4 ( 67)

FOR STABILITY CLASS - 3

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 68

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 1982 THROUGH SEPT 30 1982

JG120\*

## STABILITY CLASS - C

### % 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	0.2 ( 3)	0.2 ( 4)	0.2 ( 3)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.6 ( 12)
NNE	0.1 ( 2)	0.4 ( 7)	0.0 ( 0)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	0.7 ( 13)
NE	0.1 ( 2)	0.2 ( 3)	0.3 ( 5)	0.3 ( 6)	0.0 ( 0)	0.0 ( 0)	0.8 ( 16)
ENE	0.0 ( 0)	0.1 ( 2)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.2 ( 4)
E	0.1 ( 2)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.2 ( 3)
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)	0.4 ( 7)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.4 ( 8)
SSE	0.1 ( 1)	0.3 ( 6)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.5 ( 9)
S	0.0 ( 0)	0.2 ( 3)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.2 ( 4)
SSW	0.0 ( 0)	0.1 ( 1)	0.2 ( 3)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.2 ( 4)
SW	0.0 ( 0)	0.1 ( 1)	0.3 ( 10)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.2 ( 4)
WSW	0.0 ( 0)	0.4 ( 8)	0.5 ( 17)	0.4 ( 7)	0.2 ( 3)	0.0 ( 0)	1.4 ( 28)
W	0.1 ( 1)	0.2 ( 4)	0.4 ( 7)	0.2 ( 4)	0.2 ( 3)	0.0 ( 0)	1.0 ( 19)
WNW	0.1 ( 2)	0.2 ( 3)	0.1 ( 2)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	0.6 ( 11)
NW	0.2 ( 3)	0.1 ( 1)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.3 ( 5)
NNW	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)
TOTAL	0.8 ( 16)	2.6 ( 52)	2.0 ( 40)	1.4 ( 27)	0.3 ( 6)	0.0 ( 0)	7.1 ( 141)

FOR STABILITY CLASS - C

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 147

NUMBER OF MISSING WIND OBSERVATIONS: 6

NUMBER OF CALM HOURS: 0

# NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1982 THROUGH SEPT 30 1982

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JG120\*

## STABILITY CLASS - D

### % 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	0.4 ( 7)	0.5 ( 10)	0.4 ( 7)	0.2 ( 3)	0.0 ( 0)	0.0 ( 0)	1.4 ( 27)
NNE	0.4 ( 7)	0.9 ( 17)	0.3 ( 5)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.5 ( 29)
NE	0.8 ( 15)	1.5 ( 29)	0.4 ( 8)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	2.8 ( 56)
ENE	0.3 ( 6)	0.5 ( 10)	0.2 ( 3)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.0 ( 19)
E	0.2 ( 4)	0.4 ( 7)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.6 ( 12)
ESE	0.3 ( 5)	0.8 ( 16)	0.4 ( 7)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.4 ( 28)
SE	0.3 ( 5)	1.0 ( 20)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.5 ( 29)
SSE	0.4 ( 7)	1.2 ( 23)	0.7 ( 13)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	2.2 ( 43)
S	0.1 ( 1)	1.0 ( 2)	0.7 ( 14)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	1.8 ( 36)
SSW	0.1 ( 1)	0.4 ( 8)	0.2 ( 3)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.7 ( 13)
SII	0.2 ( 4)	0.6 ( 11)	1.3 ( 26)	0.4 ( 7)	0.0 ( 0)	0.0 ( 0)	2.4 ( 48)
WSW	0.2 ( 4)	0.9 ( 18)	1.5 ( 29)	1.8 ( 36)	0.8 ( 15)	0.1 ( 1)	5.2 ( 103)
W	0.2 ( 4)	0.7 ( 14)	0.8 ( 15)	1.1 ( 21)	1.3 ( 25)	0.5 ( 9)	4.4 ( 88)
WNW	0.5 ( 9)	0.5 ( 9)	1.3 ( 25)	1.5 ( 29)	0.5 ( 9)	0.2 ( 3)	4.2 ( 84)
WII	0.2 ( 3)	0.5 ( 10)	0.4 ( 8)	0.2 ( 3)	0.0 ( 0)	0.0 ( 0)	1.2 ( 24)
NNW	0.2 ( 3)	0.4 ( 8)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.6 ( 11)
TOTAL	4.3 ( 85)	11.5 ( 230)	8.4 ( 163)	5.3 ( 105)	2.5 ( 49)	0.7 ( 13)	32.6 ( 650)

FOR STABILITY CLASS - D

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 659

NUMBER OF MISSING WIND OBSERVATIONS: 9

NUMBER OF CALM HOURS: 1

# NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1982 THROUGH SEPT 30 1982

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JG120\*

## STABILITY CLASS - E

### % 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	0.2 ( 3)	0.3 ( 5)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.5 ( 9)
NNE	0.4 ( 8)	0.4 ( 7)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.8 ( 15)
NE	0.6 ( 12)	1.0 ( 19)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.6 ( 31)
ENE	0.5 ( 9)	0.5 ( 9)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.0 ( 20)
E	0.9 ( 17)	0.8 ( 16)	0.2 ( 3)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.8 ( 36)
ESE	0.3 ( 6)	2.0 ( 39)	0.6 ( 12)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	2.9 ( 57)
SE	0.2 ( 4)	2.0 ( 39)	0.9 ( 18)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	3.1 ( 61)
SSE	0.2 ( 3)	2.6 ( 51)	1.0 ( 19)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	3.7 ( 73)
S	0.3 ( 5)	1.8 ( 36)	0.8 ( 16)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	2.9 ( 57)
SSW	0.4 ( 7)	0.8 ( 16)	0.4 ( 7)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.5 ( 30)
SW	0.1 ( 1)	0.8 ( 16)	0.8 ( 16)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	2.0 ( 40)
WSW	0.4 ( 7)	1.0 ( 19)	0.5 ( 10)	0.3 ( 6)	0.0 ( 0)	0.0 ( 0)	1.7 ( 33)
W	0.2 ( 3)	0.5 ( 10)	0.2 ( 3)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.6 ( 11)
WNW	0.4 ( 7)	0.1 ( 2)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.6 ( 11)
NW	0.2 ( 3)	0.3 ( 5)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.5 ( 10)
NNW	0.2 ( 4)	0.2 ( 3)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.4 ( 7)
TOTAL	5.0 ( 99)	14.1 ( 281)	5.6 ( 111)	0.5 ( 10)	0.0 ( 0)	0.0 ( 0)	25.1 ( 501)

## FOR STABILITY CLASS - E

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 509

NUMBER OF MISSING WIND OBSERVATIONS: 8

NUMBER OF CALM HOURS: 2

# NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILF LOWER (9)

DATA FOR JULY 1 1982 THROUGH SEPT 30 1982

JG120\*

## STABILITY CLASS - F

### % 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 ( 1)
NNE	0.1 ( 2)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.2 ( 4)
NNE	0.4 ( 8)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.4 ( 8)
ENE	0.2 ( 4)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.3 ( 6)
E	0.8 ( 16)	0.5 ( 10)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.3 ( 26)
ESE	0.5 ( 10)	0.7 ( 14)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.2 ( 24)
SE	0.4 ( 7)	1.4 ( 28)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.8 ( 35)
SSE	0.1 ( 2)	1.0 ( 20)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.1 ( 22)
S	0.1 ( 2)	0.5 ( 9)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.6 ( 12)
SSW	0.2 ( 4)	0.3 ( 5)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.5 ( 9)
SW	0.2 ( 3)	0.3 ( 6)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.6 ( 11)
WSW	0.1 ( 2)	0.4 ( 8)	0.1 ( 1)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.6 ( 12)
W	0.0 ( 0)	0.4 ( 7)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.4 ( 7)
WNW	0.2 ( 4)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.4 ( 8)
W	0.0 ( 0)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 1)
NNW	0.0 ( 0)	0.3 ( 6)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.3 ( 6)
TOTAL	3.3 ( 65)	6.2 ( 123)	0.2 ( 4)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	9.7 ( 193)

#### FOR STABILITY CLASS - F

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 200

NUMBER OF MISSING WIND OBSERVATIONS: 7

NUMBER OF CALM HOURS: 1



# NIAGARA MOHAUK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1982 THROUGH SEPT 30 1982

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)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
NNE	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
NE	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
ENE	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
E	1.4 (28)	0.5 (9)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.9 (37)
ESE	1.4 (28)	1.0 (19)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	2.4 (47)
SE	1.1 (22)	1.9 (37)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	3.0 (59)
SSE	0.5 (10)	1.1 (22)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.6 (32)
S	0.2 (4)	0.5 (10)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.7 (14)
SSW	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
SH	0.2 (4)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (6)
WSW	0.3 (6)	0.4 (7)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.7 (13)
W	0.1 (1)	0.3 (5)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (6)
WNW	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (2)
NW	0.0 (0)	0.2 (3)	0.0 (0)	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)	0.0 (0)	0.0 (0)
TOTAL	5.8 (115)	5.0 (120)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	11.8 (235)

#### FOR STABILITY CLASS - G

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 238

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 1982 THROUGH SEPT 30 1982

JG120\*

STABILITY CLASS - ALL

## % 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	1.2 ( 24)	1.3 ( 25)	0.6 ( 12)	0.3 ( 5)	0.0 ( 0)	0.0 ( 0)	3.3 ( 66)
NNE	1.1 ( 21)	2.3 ( 45)	0.3 ( 6)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	3.8 ( 76)
NE	2.4 ( 47)	4.4 ( 87)	0.7 ( 13)	0.6 ( 12)	0.0 ( 0)	0.0 ( 0)	8.0 ( 159)
ENE	1.2 ( 24)	1.7 ( 33)	0.4 ( 8)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	3.3 ( 65)
E	3.4 ( 67)	2.3 ( 46)	0.3 ( 5)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	5.9 ( 118)
ESE	2.7 ( 53)	4.6 ( 92)	1.0 ( 19)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	8.2 ( 164)
SE	2.0 ( 39)	6.8 ( 135)	1.2 ( 24)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	9.9 ( 198)
SSE	1.2 ( 23)	6.6 ( 132)	2.1 ( 41)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	9.8 ( 196)
S	0.7 ( 14)	4.3 ( 86)	1.9 ( 37)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	6.9 ( 138)
SSW	0.8 ( 16)	1.6 ( 31)	0.7 ( 14)	0.1 ( 1)	0.1 ( 1)	0.0 ( 0)	3.2 ( 63)
SH	0.6 ( 12)	2.2 ( 43)	2.5 ( 50)	0.6 ( 12)	0.1 ( 1)	0.0 ( 0)	5.9 ( 118)
WSW	1.0 ( 19)	2.8 ( 55)	2.6 ( 52)	2.9 ( 57)	1.3 ( 19)	0.2 ( 3)	10.3 ( 205)
W	0.7 ( 13)	2.3 ( 46)	1.6 ( 31)	1.6 ( 32)	1.5 ( 30)	0.5 ( 9)	8.1 ( 161)
WNW	1.7 ( 34)	2.2 ( 43)	1.9 ( 37)	2.0 ( 40)	0.6 ( 12)	0.2 ( 3)	8.5 ( 169)
NW	1.0 ( 20)	1.7 ( 34)	0.6 ( 11)	0.2 ( 3)	0.0 ( 0)	0.0 ( 0)	3.4 ( 68)
NHW	0.5 ( 10)	1.0 ( 19)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.5 ( 29)
TOTAL	21.9 ( 436)	47.8 ( 952)	18.1 ( 360)	8.4 ( 167)	3.2 ( 63)	0.8 ( 15)	100.0 ( 1993)

FOR STABILITY CLASS - ALL

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2027

NUMBER OF MISSING WIND OBSERVATIONS: 34

NUMBER OF CALM HOURS: 4



NIAGARA MOHAWK

OSUEGO AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9) DATA FOR JULY 1982 THROUGH SEPT 30 1982

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	1.2 (24)	1.2 (25)	0.6 (12)	0.2 (5)	0.0 (0)	0.0 (0)	3.2 (66)
NNE	1.0 (21)	2.2 (45)	0.3 (6)	0.2 (4)	0.0 (0)	0.0 (0)	3.7 (76)
NE	2.9 (59)	4.6 (94)	0.6 (13)	0.6 (12)	0.0 (0)	0.6 (12)	8.2 (168)
ENE	1.3 (26)	1.6 (33)	0.4 (8)	0.0 (0)	0.0 (0)	0.0 (1)	3.2 (66)
E	3.3 (67)	2.3 (46)	0.2 (5)	0.0 (0)	0.0 (0)	0.0 (0)	5.8 (118)
ESE	2.7 (55)	4.5 (92)	0.9 (19)	0.0 (0)	0.0 (0)	0.0 (0)	8.1 (166)
SE	2.0 (41)	6.8 (139)	1.2 (24)	0.0 (0)	0.0 (0)	0.0 (1)	10.0 (204)
SSE	1.1 (23)	6.5 (133)	2.0 (41)	0.0 (0)	0.0 (0)	0.0 (0)	9.7 (197)
S	1.0 (20)	4.4 (90)	1.9 (38)	0.0 (1)	0.0 (0)	0.4 (8)	7.0 (143)
SSW	0.8 (17)	1.6 (32)	0.7 (14)	0.0 (1)	0.0 (1)	0.0 (1)	3.2 (65)
SW	0.6 (12)	2.2 (44)	2.5 (50)	0.6 (12)	0.0 (0)	0.0 (0)	5.8 (119)
WSW	1.0 (20)	2.8 (58)	2.6 (54)	2.9 (59)	0.9 (19)	0.2 (4)	10.4 (212)
W	0.6 (13)	2.3 (46)	1.5 (31)	1.9 (39)	1.5 (30)	0.4 (9)	8.2 (168)
WNW	1.7 (34)	2.1 (43)	1.8 (37)	2.0 (40)	0.6 (12)	0.1 (3)	8.3 (169)
NW	1.0 (20)	1.8 (37)	0.5 (11)	0.1 (3)	0.0 (0)	0.0 (0)	3.5 (71)
NNW	0.5 (11)	1.0 (20)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.5 (31)
TOTAL	22.7 (463)	47.9 (977)	17.8 (363)	8.6 (176)	3.1 (63)	0.7 (15)	100.0 (2039)

FOR ALL WIND CATEGORIES

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2208

NUMBER OF MISSING WIND OBSERVATIONS: 169

NUMBER OF CALM HOURS: 4

\*\*\*\*\*  
 % 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 1982 THROUGH DEC 31 1982

JG120\*

## STABILITY CLASS - A

### % 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 ( 2)	0.4 ( 9)	0.1 ( 3)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.7 ( 14)
NNE	0.1 ( 3)	0.2 ( 5)	0.0 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.4 ( 9)
NE	0.0 ( 1)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.2 ( 5)
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)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.2 ( 4)
ESE	0.0 ( 0)	0.2 ( 5)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.2 ( 5)
SE	0.0 ( 0)	0.0 ( 1)	0.1 ( 3)	0.1 ( 2)	0.0 ( 1)	0.0 ( 0)	0.3 ( 7)
SSE	0.0 ( 0)	0.0 ( 0)	0.0 ( 1)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.1 ( 3)
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 ( 1)	0.0 ( 0)	0.0 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 2)
SW	0.0 ( 1)	0.0 ( 1)	0.0 ( 0)	0.0 ( 1)	0.0 ( 1)	0.0 ( 0)	0.2 ( 4)
WSW	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 1)	0.0 ( 0)	0.0 ( 1)
W	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 3)	0.3 ( 6)	0.4 ( 9)
WNW	0.0 ( 0)	0.1 ( 2)	0.1 ( 2)	0.2 ( 4)	0.3 ( 6)	0.3 ( 6)	1.0 ( 20)
NW	0.0 ( 0)	0.2 ( 4)	0.1 ( 2)	0.1 ( 2)	0.0 ( 1)	0.0 ( 0)	0.4 ( 9)
NNW	0.2 ( 4)	0.1 ( 3)	0.1 ( 3)	0.1 ( 3)	0.0 ( 0)	0.0 ( 0)	0.6 ( 13)
TOTAL	0.6 ( 12)	1.9 ( 39)	0.8 ( 16)	0.7 ( 15)	0.6 ( 13)	0.8 ( 17)	5.6 ( 112)

#### FOR STABILITY CLASS - A

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 112

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 4

# NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

DATA FOR OCT 1 1982 THROUGH DEC 31 1982

SITE: NINE MILE LOWER (9)

JG120\*

## STABILITY CLASS - B

### % 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	
N	0.0 ( 1)	0.1 ( 2)	0.1 ( 3)	0.0 ( 0)	0.0 ( 0)	0.3 ( 6)
NNE	0.2 ( 4)	0.1 ( 3)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.4 ( 9)
NE	0.0 ( 0)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 2)
ENE	0.0 ( 0)	0.0 ( 1)	0.0 ( 1)	0.0 ( 0)	0.0 ( 0)	0.1 ( 2)
E	0.0 ( 0)	0.1 ( 3)	0.0 ( 1)	0.0 ( 0)	0.0 ( 0)	0.2 ( 4)
ESE	0.0 ( 0)	0.0 ( 1)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.1 ( 3)
SE	0.0 ( 0)	0.0 ( 0)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.1 ( 2)
SSE	0.0 ( 0)	0.0 ( 0)	0.0 ( 1)	0.0 ( 1)	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)
SSW	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 ( 1)	0.1 ( 2)
WSW	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 ( 5)	0.2 ( 5)
WNW	0.0 ( 0)	0.0 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 6)	0.3 ( 6)
NW	0.0 ( 0)	0.0 ( 1)	0.1 ( 3)	0.5 ( 11)	0.2 ( 4)	1.1 ( 23)
NNW	0.0 ( 0)	0.0 ( 0)	0.3 ( 6)	0.3 ( 6)	0.0 ( 0)	0.5 ( 10)
TOTAL	0.2 ( 5)	0.7 ( 14)	1.0 ( 21)	0.9 ( 18)	0.2 ( 5)	4.1 ( 82)

#### FOR STABILITY CLASS - B

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 82

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 3

# NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9) DATA FOR OCT 1 1982 THROUGH DEC 31 1982

JG120\*

## STABILITY CLASS - C

% 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	0.3 ( 6)	0.1 ( 3)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.4 ( 9)
NNE	0.2 ( 4)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.4 ( 8)
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)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 2)
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 ( 1)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.2 ( 5)
SE	0.0 ( 0)	0.0 ( 0)	0.3 ( 7)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.3 ( 7)
SSE	0.0 ( 0)	0.0 ( 1)	0.0 ( 0)	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 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)
SW	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.1 ( 3)
WSW	0.0 ( 0)	0.0 ( 1)	0.0 ( 0)	0.1 ( 2)	0.1 ( 3)	0.6 ( 12)	0.9 ( 18)
W	0.0 ( 1)	0.0 ( 1)	0.0 ( 0)	0.0 ( 0)	0.2 ( 5)	0.5 ( 11)	0.9 ( 18)
WNW	0.0 ( 0)	0.0 ( 1)	0.0 ( 0)	0.3 ( 7)	1.0 ( 21)	0.3 ( 7)	1.8 ( 36)
NNW	0.0 ( 0)	0.0 ( 0)	0.3 ( 6)	0.9 ( 19)	0.0 ( 0)	0.0 ( 0)	1.2 ( 25)
TOTAL	0.5 ( 11)	0.7 ( 14)	1.2 ( 24)	1.5 ( 31)	1.4 ( 29)	1.5 ( 31)	7.0 ( 140)

FOR STABILITY CLASS - C

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 140

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 7



# NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9) DATA FOR OCT 1 1982 THROUGH DEC 31 1982

JG120\*

## STABILITY CLASS - D

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

DIR	00-03	04-07	08-12	SPEED (MPH)		19-23	>24	TOTAL
				13-18				
N	0.4 ( 9)	0.5 ( 11)	0.4 ( 8)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.4 ( 28)
NNE	0.3 ( 6)	1.5 ( 31)	0.3 ( 6)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	2.1 ( 43)
NE	0.0 ( 1)	0.9 ( 18)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.1 ( 23)
ENE	0.3 ( 7)	0.4 ( 8)	0.0 ( 1)	0.0 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.8 ( 17)
E	0.1 ( 3)	1.2 ( 24)	1.2 ( 24)	0.0 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	2.6 ( 52)
ESE	0.1 ( 3)	2.1 ( 43)	4.2 ( 85)	0.1 ( 3)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	6.7 ( 134)
SE	0.0 ( 0)	2.2 ( 45)	2.0 ( 41)	1.0 ( 21)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	5.3 ( 107)
SSE	0.0 ( 0)	1.2 ( 24)	2.2 ( 45)	1.2 ( 24)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	4.6 ( 93)
S	0.0 ( 1)	1.7 ( 34)	2.4 ( 48)	0.7 ( 14)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	4.9 ( 99)
SSW	0.0 ( 1)	0.2 ( 5)	0.9 ( 18)	0.4 ( 8)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.6 ( 32)
SW	0.0 ( 0)	0.1 ( 2)	1.0 ( 20)	0.6 ( 13)	0.2 ( 5)	0.0 ( 0)	0.0 ( 0)	2.1 ( 43)
WSW	0.0 ( 1)	0.3 ( 7)	0.6 ( 12)	0.6 ( 13)	1.2 ( 25)	1.3 ( 26)	1.3 ( 26)	4.2 ( 84)
W	0.1 ( 2)	0.2 ( 4)	0.4 ( 8)	0.7 ( 14)	0.4 ( 9)	1.4 ( 28)	1.4 ( 28)	3.2 ( 65)
WNW	0.0 ( 1)	0.6 ( 12)	0.9 ( 19)	0.9 ( 19)	0.8 ( 17)	0.6 ( 13)	0.6 ( 13)	4.0 ( 81)
NW	0.0 ( 1)	0.6 ( 12)	0.9 ( 18)	0.8 ( 17)	0.0 ( 1)	0.0 ( 0)	0.0 ( 0)	2.4 ( 49)
NNW	0.0 ( 0)	0.4 ( 9)	0.3 ( 7)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.8 ( 16)
TOTAL	1.8 ( 36)	14.4 ( 289)	18.2 ( 364)	7.4 ( 148)	2.9 ( 59)	3.5 ( 70)	3.5 ( 70)	48.2 ( 966)

FOR STABILITY CLASS - D

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 966

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 1



# NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9) DATA FOR OCT 1 1982 THROUGH DEC 31 1982

JG120\*

## STABILITY CLASS - E

% 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	0.2 ( 5)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 1)	0.4 ( 8)
NNE	0.4 ( 9)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.5 ( 11)
NE	0.4 ( 9)	0.1 ( 3)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.6 ( 12)
ENE	0.4 ( 8)	0.2 ( 4)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.7 ( 14)
E	0.5 ( 11)	0.2 ( 28)	0.7 ( 14)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	2.6 ( 53)
ESE	0.2 ( 4)	2.5 ( 50)	2.2 ( 44)	0.0 ( 1)	0.0 ( 0)	0.0 ( 0)	4.9 ( 99)
SE	0.2 ( 5)	2.2 ( 44)	2.1 ( 43)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	4.7 ( 94)
SSE	0.1 ( 3)	1.9 ( 39)	1.4 ( 29)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	3.7 ( 75)
S	0.1 ( 3)	2.0 ( 40)	1.1 ( 22)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	3.3 ( 67)
SSW	0.1 ( 2)	0.5 ( 10)	0.3 ( 7)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	1.0 ( 21)
SW	0.1 ( 2)	0.4 ( 9)	0.5 ( 10)	0.3 ( 6)	0.2 ( 4)	0.0 ( 0)	1.5 ( 31)
WSW	0.1 ( 2)	0.7 ( 14)	0.5 ( 10)	0.3 ( 7)	0.2 ( 5)	0.1 ( 3)	2.1 ( 42)
W	0.1 ( 2)	0.0 ( 1)	0.0 ( 0)	0.0 ( 1)	0.0 ( 0)	0.0 ( 1)	0.2 ( 5)
WNW	0.0 ( 0)	0.1 ( 3)	0.1 ( 3)	0.1 ( 2)	0.0 ( 1)	0.0 ( 0)	0.4 ( 9)
NW	0.1 ( 2)	0.1 ( 3)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.2 ( 5)
NNW	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 2)
TOTAL	3.5 ( 70)	12.6 ( 252)	9.2 ( 184)	1.3 ( 27)	0.5 ( 10)	0.2 ( 5)	27.3 ( 548)

FOR STABILITY CLASS - E

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 548

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 1982 THROUGH DEC 31 1982

JG120\*

STABILITY CLASS - F

## % 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 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 1)
NE	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)
ENE	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.2 ( 4)
E	0.4 ( 9)	0.3 ( 7)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.8 ( 16)
ESE	0.1 ( 3)	0.4 ( 9)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.6 ( 12)
SE	0.2 ( 5)	0.9 ( 18)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.1 ( 23)
SSE	0.1 ( 2)	0.6 ( 12)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.7 ( 14)
S	0.2 ( 4)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.4 ( 8)
SSW	0.0 ( 0)	0.0 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 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)	0.2 ( 5)	0.0 ( 0)	0.0 ( 1)	0.0 ( 1)	0.3 ( 7)
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	1.4 ( 29)	2.5 ( 51)	0.2 ( 5)	0.0 ( 0)	0.0 ( 1)	0.0 ( 1)	4.3 ( 86)

FOR STABILITY CLASS - F

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 86

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 1982 THROUGH DEC 31 1982

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 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
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	0.5 (10)	0.4 (8)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.9 (18)
ESE	0.4 (9)	0.7 (15)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.2 (24)
SE	0.3 (6)	0.7 (15)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.0 (21)
SSE	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (5)
S	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (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)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
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 (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	1.5 (31)	2.0 (40)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	3.5 (71)

FOR STABILITY CLASS - G

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 71

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 1982 THROUGH DEC 31 1982

JG120\*

STABILITY CLASS - ALL

## % 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	1.1 ( 23)	1.3 ( 27)	0.7 ( 14)	0.0 ( 0)	0.0 ( 0)	0.0 ( 1)	3.2 ( 65)
NNE	1.4 ( 28)	2.1 ( 43)	0.5 ( 11)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	4.1 ( 82)
NE	0.5 ( 11)	1.3 ( 27)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	2.1 ( 42)
ENE	0.9 ( 19)	0.8 ( 16)	0.2 ( 4)	0.0 ( 1)	0.0 ( 0)	0.0 ( 0)	2.0 ( 40)
E	1.6 ( 33)	3.7 ( 74)	2.0 ( 40)	0.0 ( 1)	0.0 ( 0)	0.0 ( 0)	7.4 ( 148)
ESE	0.9 ( 19)	6.2 ( 124)	5.7 ( 135)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	14.1 ( 282)
SE	0.8 ( 16)	6.1 ( 123)	4.8 ( 96)	1.2 ( 25)	0.0 ( 1)	0.0 ( 0)	13.0 ( 261)
SSE	0.4 ( 9)	3.8 ( 77)	3.8 ( 76)	1.5 ( 31)	0.0 ( 0)	0.0 ( 0)	9.6 ( 193)
S	0.4 ( 9)	3.9 ( 78)	3.5 ( 70)	0.8 ( 17)	0.1 ( 2)	0.0 ( 0)	8.8 ( 176)
SSW	0.2 ( 4)	0.8 ( 16)	1.3 ( 26)	0.5 ( 10)	0.0 ( 0)	0.0 ( 0)	2.8 ( 56)
SW	0.1 ( 3)	0.6 ( 12)	1.5 ( 30)	1.1 ( 22)	0.5 ( 11)	0.2 ( 5)	4.1 ( 83)
WSW	0.2 ( 4)	1.1 ( 22)	1.3 ( 27)	1.1 ( 22)	1.7 ( 35)	2.6 ( 52)	8.1 ( 162)
W	0.2 ( 5)	0.3 ( 7)	0.4 ( 8)	0.7 ( 15)	0.8 ( 17)	2.6 ( 52)	5.2 ( 104)
WNW	0.0 ( 1)	0.9 ( 19)	1.2 ( 24)	2.1 ( 43)	2.4 ( 49)	1.6 ( 33)	8.4 ( 169)
NW	0.1 ( 3)	1.0 ( 20)	1.4 ( 29)	2.2 ( 44)	0.1 ( 2)	0.0 ( 0)	4.9 ( 98)
NNW	0.3 ( 6)	0.7 ( 14)	1.0 ( 20)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	2.2 ( 44)
TOTAL	9.6 ( 193)	34.9 ( 699)	30.6 ( 614)	11.9 ( 239)	5.8 ( 117)	7.1 ( 143)	100.0 ( 2005)

FOR STABILITY CLASS - ALL

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2005

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 15



# NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR OCT 1 1982 THROUGH DEC 31 1982

JG120\*

## % 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	
N	1.1 ( 23)	1.3 ( 27)	0.7 ( 14)	0.0 ( 0)	0.0 ( 0)	3.2 ( 65)
NNE	1.4 ( 28)	2.1 ( 43)	0.5 ( 11)	0.0 ( 0)	0.0 ( 0)	4.1 ( 82)
NE	0.5 ( 11)	1.3 ( 27)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	2.1 ( 42)
ENE	0.9 ( 19)	0.8 ( 16)	0.2 ( 4)	0.0 ( 1)	0.0 ( 0)	2.0 ( 40)
E	1.6 ( 33)	3.7 ( 74)	2.0 ( 40)	0.0 ( 1)	0.0 ( 0)	7.4 ( 148)
ESE	0.9 ( 19)	6.2 ( 124)	6.7 ( 135)	0.2 ( 4)	0.0 ( 0)	14.1 ( 282)
SE	0.8 ( 16)	6.1 ( 123)	4.8 ( 96)	1.2 ( 25)	0.0 ( 1)	13.0 ( 261)
SSE	0.4 ( 9)	3.8 ( 77)	3.8 ( 76)	1.5 ( 31)	0.0 ( 0)	9.6 ( 193)
S	0.4 ( 9)	3.9 ( 78)	3.5 ( 70)	0.8 ( 17)	0.1 ( 2)	8.8 ( 176)
SSW	0.2 ( 4)	0.8 ( 16)	1.3 ( 26)	0.5 ( 10)	0.0 ( 0)	2.8 ( 56)
SW	0.1 ( 3)	0.6 ( 12)	1.5 ( 30)	1.1 ( 22)	0.5 ( 11)	4.1 ( 83)
WSW	0.2 ( 4)	1.1 ( 22)	1.3 ( 27)	1.1 ( 22)	1.7 ( 35)	8.1 ( 162)
W	0.2 ( 5)	0.3 ( 7)	0.4 ( 8)	0.7 ( 15)	0.8 ( 17)	5.2 ( 104)
WNW	0.0 ( 1)	0.9 ( 19)	1.2 ( 24)	2.1 ( 43)	2.4 ( 49)	8.4 ( 169)
NW	0.1 ( 3)	1.0 ( 20)	1.4 ( 29)	2.2 ( 44)	0.1 ( 2)	4.9 ( 98)
NNW	0.3 ( 6)	0.7 ( 14)	1.0 ( 20)	0.2 ( 4)	0.0 ( 0)	2.2 ( 44)
TOTAL	9.6 ( 193)	34.9 ( 699)	30.6 ( 614)	11.9 ( 239)	5.8 ( 117)	100.0 ( 2005)

FOR ALL WIND CATEGORIES

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2208

NUMBER OF MISSING WIND OBSERVATIONS: 203

NUMBER OF CALM HOURS: 15



\*\*\*\*\* 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 1982 THROUGH SEPT 30 1982

JG120\*

## STABILITY CLASS - A

### % 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	0.2 ( 3)	0.3 ( 5)	0.6 ( 12)	0.2 ( 4)	0.2 ( 3)	0.0 ( 0)	1.4 ( 27)
NNE	0.1 ( 1)	0.2 ( 4)	0.1 ( 2)	0.6 ( 11)	0.1 ( 1)	0.0 ( 0)	1.0 ( 19)
NE	0.0 ( 0)	0.3 ( 6)	0.1 ( 2)	0.2 ( 4)	0.1 ( 1)	0.0 ( 0)	0.7 ( 13)
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)	0.1 ( 1)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.3 ( 5)
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 ( 2)	0.4 ( 7)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.5 ( 10)
S	0.0 ( 0)	0.0 ( 0)	0.3 ( 5)	0.4 ( 7)	0.0 ( 0)	0.1 ( 1)	0.7 ( 13)
SSW	0.0 ( 0)	0.1 ( 1)	0.0 ( 0)	0.1 ( 2)	0.1 ( 1)	0.0 ( 0)	0.2 ( 4)
SW	0.0 ( 0)	0.0 ( 0)	0.2 ( 3)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.2 ( 4)
WSW	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.3 ( 5)	0.3 ( 5)	0.0 ( 0)	0.5 ( 10)
W	0.0 ( 0)	0.3 ( 6)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.1 ( 2)	0.5 ( 9)
WNW	0.0 ( 0)	0.2 ( 4)	0.3 ( 5)	0.1 ( 1)	0.1 ( 2)	0.1 ( 2)	0.7 ( 14)
NW	0.0 ( 0)	0.7 ( 13)	0.2 ( 4)	0.1 ( 2)	0.2 ( 3)	0.1 ( 2)	1.2 ( 24)
NNW	0.3 ( 5)	0.6 ( 12)	0.5 ( 10)	0.1 ( 2)	0.1 ( 1)	0.0 ( 0)	1.5 ( 30)
TOTAL	0.5 ( 9)	2.7 ( 54)	2.8 ( 55)	2.0 ( 40)	0.9 ( 17)	0.4 ( 7)	9.1 ( 182)

#### FOR STABILITY CLASS - A

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 182

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 8

# NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1982 THROUGH SEPT 30 1982

JG120\*

## STABILITY CLASS - B

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

DIR	00-03	04-07	08-12	SPEED (MPH)			19-23	>24	TOTAL
				13-18					
N	0.0 ( 0)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.2 ( 4)
NNE	0.1 ( 1)	0.3 ( 5)	0.1 ( 1)	0.1 ( 1)	0.1 ( 1)	0.1 ( 1)	0.1 ( 1)	0.1 ( 1)	0.6 ( 11)
NE	0.1 ( 1)	0.1 ( 1)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.3 ( 3)
ENE	0.0 ( 0)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 1)
E	0.0 ( 0)	0.1 ( 1)	0.0 ( 0)	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)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 1)
SE	0.0 ( 0)	0.0 ( 0)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 1)
SSE	0.0 ( 0)	0.0 ( 0)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 1)
S	0.0 ( 0)	0.1 ( 1)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	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)	0.0 ( 0)	0.0 ( 0)	0.1 ( 1)
SW	0.0 ( 0)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 1)
WSW	0.0 ( 0)	0.1 ( 1)	0.0 ( 0)	0.1 ( 1)	0.1 ( 1)	0.2 ( 3)	0.2 ( 3)	0.0 ( 0)	0.3 ( 6)
W	0.0 ( 0)	0.1 ( 1)	0.1 ( 1)	0.1 ( 1)	0.1 ( 1)	0.2 ( 3)	0.2 ( 3)	0.1 ( 1)	0.4 ( 8)
WNW	0.0 ( 0)	0.1 ( 1)	0.3 ( 6)	0.2 ( 3)	0.2 ( 3)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.6 ( 11)
NW	0.0 ( 0)	0.1 ( 1)	0.1 ( 1)	0.1 ( 1)	0.1 ( 1)	0.1 ( 1)	0.1 ( 1)	0.1 ( 1)	0.3 ( 6)
NNW	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.1 ( 1)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.1 ( 1)	0.2 ( 3)
TOTAL	0.2 ( 3)	1.1 ( 22)	1.0 ( 19)	0.5 ( 10)	0.5 ( 10)	0.5 ( 9)	0.2 ( 4)	0.2 ( 4)	3.4 ( 67)

#### FOR STABILITY CLASS - B

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 68

NUMBER OF MISSING WIND OBSERVATIONS: 1

NUMBER OF CALM HOURS: 2

# NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER

DATA FOR JULY 1 1982 THROUGH SEPT 30 1982

JG120\*

## STABILITY CLASS - C

### % 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)	0.2 ( 3)	0.3 ( 5)	0.1 ( 1)	0.1 ( 1)	0.0 ( 0)	0.5 ( 10)
NNE	0.0 ( 0)	0.2 ( 3)	0.1 ( 2)	0.3 ( 5)	0.3 ( 6)	0.0 ( 0)	0.8 ( 16)
NE	0.0 ( 0)	0.1 ( 2)	0.3 ( 5)	0.3 ( 5)	0.1 ( 1)	0.0 ( 0)	0.7 ( 13)
ENE	0.0 ( 0)	0.1 ( 2)	0.2 ( 3)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.4 ( 7)
E	0.0 ( 0)	0.0 ( 0)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 2)
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 ( 1)	0.2 ( 3)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.2 ( 4)
SSE	0.0 ( 0)	0.2 ( 3)	0.3 ( 6)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.5 ( 9)
S	0.0 ( 0)	0.0 ( 0)	0.2 ( 3)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.3 ( 5)
SSW	0.0 ( 0)	0.0 ( 0)	0.4 ( 8)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.4 ( 8)
SW	0.0 ( 0)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 1)
WSW	0.0 ( 0)	0.1 ( 1)	0.1 ( 2)	0.4 ( 8)	0.2 ( 4)	0.0 ( 0)	0.8 ( 15)
W	0.0 ( 0)	0.3 ( 6)	0.5 ( 10)	0.4 ( 8)	0.1 ( 2)	0.2 ( 3)	1.5 ( 29)
WNW	0.0 ( 0)	0.2 ( 4)	0.1 ( 1)	0.2 ( 4)	0.1 ( 1)	0.1 ( 2)	0.6 ( 12)
WW	0.0 ( 0)	0.1 ( 1)	0.1 ( 1)	0.1 ( 1)	0.1 ( 2)	0.0 ( 0)	0.3 ( 5)
NNW	0.0 ( 0)	0.1 ( 2)	0.1 ( 1)	0.0 ( 0)	0.1 ( 1)	0.0 ( 0)	0.2 ( 4)
TOTAL	0.0 ( 0)	1.5 ( 30)	2.6 ( 52)	1.8 ( 36)	0.9 ( 18)	0.3 ( 5)	7.1 ( 141)

### FOR STABILITY CLASS - C

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 147

NUMBER OF MISSING WIND OBSERVATIONS: 6

NUMBER OF CALM HOURS: 0

# NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1982 THROUGH SEPT 30 1982

JG120\*

## STABILITY CLASS - D

### \* 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	
N	0.0 ( 0)	0.4 ( 7)	0.2 ( 3)	0.3 ( 6)	0.1 ( 2)	1.1 ( 21)
NNE	0.2 ( 3)	0.5 ( 4)	0.5 ( 9)	1.3 ( 25)	0.3 ( 5)	2.4 ( 48)
NE	0.2 ( 4)	0.5 ( 9)	0.8 ( 15)	0.6 ( 11)	0.1 ( 1)	2.0 ( 40)
ENE	0.0 ( 0)	0.3 ( 6)	0.2 ( 3)	0.3 ( 6)	0.0 ( 0)	0.8 ( 15)
E	0.1 ( 2)	0.2 ( 4)	0.1 ( 1)	0.1 ( 1)	0.0 ( 0)	0.4 ( 8)
ESE	0.1 ( 1)	0.3 ( 5)	0.3 ( 5)	0.3 ( 5)	0.0 ( 0)	0.8 ( 16)
SE	0.0 ( 0)	0.2 ( 4)	0.6 ( 12)	0.3 ( 7)	0.3 ( 6)	1.4 ( 27)
SSE	0.1 ( 2)	0.2 ( 4)	0.8 ( 15)	0.4 ( 7)	0.1 ( 1)	1.5 ( 29)
S	0.1 ( 1)	0.3 ( 5)	0.9 ( 18)	0.9 ( 17)	0.1 ( 2)	2.2 ( 43)
SSW	0.0 ( 0)	0.3 ( 6)	0.9 ( 18)	0.4 ( 8)	0.1 ( 2)	1.7 ( 33)
SW	0.0 ( 1)	0.1 ( 1)	0.7 ( 13)	0.6 ( 12)	0.1 ( 2)	1.7 ( 33)
WSW	0.1 ( 1)	0.5 ( 10)	1.0 ( 19)	1.7 ( 34)	0.5 ( 10)	3.6 ( 71)
W	0.1 ( 1)	0.5 ( 10)	0.7 ( 13)	1.9 ( 37)	1.0 ( 19)	5.6 ( 111)
WNW	0.3 ( 5)	0.4 ( 8)	0.7 ( 13)	0.5 ( 10)	0.8 ( 15)	3.2 ( 64)
NW	0.0 ( 0)	0.3 ( 5)	0.4 ( 7)	0.6 ( 12)	1.4 ( 27)	3.1 ( 62)
NNW	0.1 ( 1)	0.3 ( 5)	0.5 ( 9)	0.4 ( 7)	0.3 ( 5)	1.5 ( 29)
TOTAL	1.1 ( 21)	4.4 ( 88)	8.7 ( 173)	10.2 ( 203)	4.9 ( 97)	32.6 ( 650)

#### FOR STABILITY CLASS - D

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 659

NUMBER OF MISSING WIND OBSERVATIONS: 9

NUMBER OF CALM HOURS: 1



# NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9) DATA FOR JULY 1 1982 THROUGH SEPT 30 1982

JG120\*

## STABILITY CLASS - E

### % 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 ( 2)	0.2 ( 3)	0.1 ( 2)	0.3 ( 5)	0.0 ( 0)	0.0 ( 0)	0.6 ( 12)
NNE	0.0 ( 0)	0.3 ( 5)	0.7 ( 13)	0.3 ( 6)	0.0 ( 0)	0.0 ( 0)	1.2 ( 24)
NE	0.1 ( 1)	0.3 ( 5)	0.4 ( 8)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	0.9 ( 18)
ENE	0.0 ( 0)	0.4 ( 8)	0.4 ( 7)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.9 ( 17)
E	0.0 ( 0)	0.0 ( 0)	0.3 ( 5)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.3 ( 6)
ESE	0.0 ( 0)	0.2 ( 3)	0.3 ( 6)	0.6 ( 12)	0.1 ( 1)	0.0 ( 0)	1.1 ( 22)
SE	0.0 ( 0)	0.2 ( 3)	0.6 ( 12)	2.3 ( 45)	0.4 ( 7)	0.0 ( 0)	3.4 ( 67)
SSE	0.0 ( 0)	0.1 ( 2)	0.6 ( 11)	2.3 ( 45)	0.4 ( 8)	0.0 ( 0)	3.3 ( 66)
S	0.0 ( 0)	0.4 ( 8)	0.8 ( 15)	2.3 ( 46)	0.1 ( 1)	0.0 ( 0)	3.5 ( 70)
SSW	0.0 ( 0)	0.2 ( 4)	0.7 ( 14)	1.6 ( 31)	0.1 ( 1)	0.0 ( 0)	2.5 ( 50)
SW	0.0 ( 0)	0.3 ( 6)	0.9 ( 17)	0.8 ( 15)	0.1 ( 2)	0.0 ( 0)	2.0 ( 40)
WSW	0.0 ( 0)	0.2 ( 3)	1.1 ( 21)	1.0 ( 19)	0.5 ( 10)	0.1 ( 1)	2.7 ( 54)
W	0.2 ( 4)	0.3 ( 5)	0.4 ( 8)	0.2 ( 3)	0.2 ( 4)	0.0 ( 0)	1.2 ( 24)
WNW	0.0 ( 0)	0.1 ( 1)	0.1 ( 2)	0.1 ( 2)	0.1 ( 1)	0.0 ( 0)	0.3 ( 6)
NW	0.1 ( 1)	0.2 ( 4)	0.1 ( 1)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.4 ( 7)
NNW	0.1 ( 1)	0.5 ( 9)	0.2 ( 3)	0.3 ( 5)	0.0 ( 0)	0.0 ( 0)	0.9 ( 18)
TOTAL	0.5 ( 9)	3.5 ( 69)	7.3 ( 135)	12.1 ( 242)	1.8 ( 35)	0.1 ( 1)	25.1 ( 501)

#### FOR STABILITY CLASS - E

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 509

NUMBER OF MISSING WIND OBSERVATIONS: 8

NUMBER OF CALM HOURS: 1

# NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1982 THROUGH SEPT 30 1982

JG120\*

STABILITY CLASS - F

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

DIR	00-03	04-07	08-12	SPEED (MPH)			13-23	>24	TOTAL
				0-7	8-12	13-18			
N	0.1 ( 1)	0.1 ( 1)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.3 ( 6)
NNE	0.0 ( 0)	0.2 ( 3)	0.1 ( 1)	0.1 ( 2)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.3 ( 6)
NE	0.1 ( 2)	0.4 ( 7)	0.2 ( 3)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.6 ( 12)
ENE	0.0 ( 0)	0.2 ( 4)	0.0 ( 0)	0.1 ( 1)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.3 ( 5)
E	0.1 ( 2)	0.1 ( 1)	0.0 ( 2)	0.1 ( 2)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.4 ( 7)
ESE	0.1 ( 1)	0.1 ( 2)	0.4 ( 7)	0.2 ( 4)	0.2 ( 4)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.7 ( 14)
SE	0.0 ( 0)	0.0 ( 0)	0.2 ( 3)	0.8 ( 16)	0.8 ( 16)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.0 ( 19)
SSE	0.1 ( 1)	0.2 ( 3)	0.3 ( 5)	1.1 ( 22)	1.1 ( 22)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.6 ( 31)
S	0.0 ( 0)	0.1 ( 2)	0.2 ( 4)	0.8 ( 15)	0.8 ( 15)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.1 ( 21)
SSW	0.0 ( 0)	0.1 ( 1)	0.1 ( 2)	0.1 ( 2)	0.1 ( 2)	0.1 ( 1)	0.1 ( 1)	0.0 ( 0)	0.3 ( 6)
SW	0.0 ( 0)	0.3 ( 5)	0.4 ( 8)	0.6 ( 11)	0.6 ( 11)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	1.2 ( 24)
WSW	0.1 ( 1)	0.2 ( 3)	0.4 ( 8)	0.1 ( 2)	0.1 ( 2)	0.1 ( 2)	0.1 ( 2)	0.0 ( 0)	0.8 ( 16)
W	0.1 ( 1)	0.2 ( 4)	0.1 ( 2)	0.1 ( 1)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.4 ( 8)
WNW	0.0 ( 0)	0.1 ( 1)	0.1 ( 1)	0.1 ( 1)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.2 ( 3)
NW	0.0 ( 0)	0.1 ( 1)	0.1 ( 1)	0.1 ( 1)	0.1 ( 1)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.2 ( 4)
NNW	0.1 ( 1)	0.1 ( 2)	0.3 ( 6)	0.1 ( 2)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.6 ( 11)
TOTAL	0.5 ( 10)	2.0 ( 40)	2.9 ( 57)	4.2 ( 83)	4.2 ( 83)	0.2 ( 3)	0.0 ( 0)	0.0 ( 0)	9.7 ( 193)

FOR STABILITY CLASS - F

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 200

NUMBER OF MISSING WIND OBSERVATIONS: 7

NUMBER OF CALM HOURS: 3

# NIAGARA MOHAWK

## OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9) DATA FOR JULY 1 1982 THROUGH SEPT 30 1982

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)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (2)
NNE	0.0 (0)	0.3 (5)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (5)
NE	0.2 (3)	0.4 (8)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.6 (12)
ENE	0.1 (1)	0.5 (10)	0.3 (6)	0.0 (0)	0.0 (0)	0.0 (0)	0.9 (17)
E	0.3 (6)	0.2 (4)	0.4 (8)	0.2 (3)	0.0 (0)	0.0 (0)	1.1 (21)
ESE	0.3 (5)	0.2 (4)	0.5 (10)	0.2 (4)	0.0 (0)	0.0 (0)	1.2 (23)
SE	0.1 (1)	0.4 (7)	0.2 (3)	0.2 (3)	0.0 (0)	0.0 (0)	0.7 (14)
SSE	0.0 (0)	0.3 (5)	0.5 (9)	0.4 (8)	0.0 (0)	0.0 (0)	1.1 (22)
S	0.1 (1)	0.3 (7)	0.7 (13)	0.4 (8)	0.1 (1)	0.0 (0)	1.6 (31)
SSW	0.1 (1)	0.2 (3)	0.2 (4)	0.3 (5)	0.0 (0)	0.0 (0)	0.7 (13)
SH	0.1 (1)	0.0 (0)	0.6 (11)	0.5 (10)	0.0 (0)	0.0 (0)	1.2 (23)
WSW	0.2 (3)	0.3 (6)	0.5 (10)	0.2 (3)	0.0 (0)	0.0 (0)	1.1 (22)
W	0.1 (2)	0.4 (7)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (10)
WNW	0.2 (3)	0.2 (3)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (7)
NW	0.0 (0)	0.1 (1)	0.1 (2)	0.1 (1)	0.0 (0)	0.0 (0)	0.2 (4)
NNW	0.1 (1)	0.2 (4)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (9)
TOTAL	1.5 (30)	3.7 (74)	4.2 (84)	2.3 (46)	0.1 (1)	0.0 (0)	11.8 (235)

#### FOR STABILITY CLASS - G

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 238

NUMBER OF MISSING WIND OBSERVATIONS: 3

NUMBER OF CALM HOURS: 10

# NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1982 THROUGH SEPT 30 1982

JG120\*

## STABILITY CLASS - ALL

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

DIR	SPEED (MPH)					TOTAL
	00-03	04-07	08-12	13-18	>24	
N	0.3 ( 6)	1.2 ( 23)	1.4 ( 28)	1.0 ( 19)	0.2 ( 6)	3 ( 85)
NNE	0.3 ( 5)	1.5 ( 29)	1.5 ( 30)	2.8 ( 55)	0.2 ( 14)	3 ( 136)
NE	0.6 ( 11)	2.0 ( 39)	1.8 ( 36)	1.3 ( 25)	0.0 ( 3)	3 ( 114)
ENE	0.1 ( 1)	1.6 ( 32)	1.0 ( 20)	0.6 ( 11)	0.0 ( 0)	0 ( 64)
E	0.5 ( 10)	0.6 ( 11)	1.1 ( 22)	0.4 ( 7)	0.0 ( 0)	0 ( 50)
ESE	0.4 ( 7)	0.8 ( 15)	1.5 ( 29)	1.3 ( 25)	0.0 ( 1)	0 ( 77)
SE	0.1 ( 1)	0.8 ( 15)	1.8 ( 35)	3.5 ( 69)	0.7 ( 13)	3 ( 133)
SSE	0.2 ( 3)	1.0 ( 19)	2.8 ( 55)	4.2 ( 83)	0.5 ( 9)	0 ( 169)
S	0.2 ( 3)	1.2 ( 23)	3.0 ( 60)	4.8 ( 95)	0.2 ( 4)	1 ( 186)
SSW	0.1 ( 1)	0.7 ( 14)	2.6 ( 51)	2.4 ( 48)	0.3 ( 5)	0 ( 119)
SW	0.1 ( 2)	1.1 ( 22)	2.7 ( 54)	2.5 ( 50)	0.2 ( 4)	0 ( 132)
WSW	0.3 ( 5)	0.8 ( 16)	3.1 ( 61)	3.6 ( 72)	1.7 ( 34)	7 ( 195)
W	0.4 ( 8)	2.0 ( 39)	1.9 ( 37)	2.6 ( 51)	1.4 ( 28)	37 ( 200)
WNW	0.4 ( 8)	1.2 ( 23)	1.5 ( 29)	1.1 ( 21)	1.0 ( 19)	17 ( 117)
NW	0.1 ( 1)	1.3 ( 26)	0.9 ( 17)	1.1 ( 21)	1.7 ( 33)	14 ( 112)
NNW	0.5 ( 10)	1.7 ( 34)	1.7 ( 33)	0.9 ( 17)	0.4 ( 7)	3 ( 104)
TOTAL	4.1 ( 82)	19.1 ( 380)	30.0 ( 597)	33.6 ( 669)	4.3 ( 85)	100.0 ( 1993)

FOR STABILITY CLASS - ALL

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2027

NUMBER OF MISSING WIND OBSERVATIONS: 34

NUMBER OF CALM HOURS: 25

# NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9) DATA FOR JULY 1 1982 THROUGH SEPT 30 1982

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	0.3 (6)	1.2 (24)	1.5 (30)	0.9 (19)	0.3 (6)	0.3 (6)	4.2 (85)
NNE	0.2 (5)	1.7 (35)	1.7 (35)	2.9 (59)	0.7 (14)	0.5 (10)	7.1 (144)
NE	0.6 (12)	2.0 (41)	2.0 (41)	1.2 (25)	0.1 (3)	0.1 (3)	5.8 (119)
ENE	0.1 (2)	1.6 (32)	1.0 (20)	0.5 (11)	0.0 (0)	0.0 (0)	3.2 (65)
E	0.5 (10)	0.5 (11)	1.1 (22)	0.3 (7)	0.0 (0)	0.0 (0)	2.5 (50)
ESE	0.4 (8)	0.7 (15)	1.4 (29)	1.2 (25)	0.0 (0)	0.0 (0)	3.8 (78)
SE	0.0 (1)	0.8 (16)	1.7 (35)	3.4 (69)	0.6 (13)	0.0 (0)	6.6 (134)
SSE	0.1 (3)	1.0 (20)	2.7 (55)	4.1 (83)	0.4 (9)	0.0 (0)	8.3 (170)
S	0.1 (3)	1.3 (26)	3.0 (62)	4.7 (96)	0.2 (4)	0.0 (1)	9.4 (192)
SSW	0.0 (1)	0.9 (18)	2.6 (54)	2.4 (48)	0.2 (5)	0.2 (4)	6.0 (122)
SW	0.2 (4)	1.2 (24)	2.8 (57)	2.6 (53)	0.2 (4)	0.2 (5)	6.7 (137)
WSW	0.2 (5)	0.8 (17)	3.0 (62)	3.6 (73)	1.7 (34)	0.4 (8)	9.7 (197)
W	0.4 (8)	2.1 (42)	1.9 (39)	2.9 (59)	1.4 (28)	1.9 (38)	10.4 (212)
WNW	0.4 (8)	1.1 (23)	1.4 (29)	1.1 (22)	0.9 (19)	0.8 (17)	5.8 (118)
NW	0.0 (1)	1.3 (26)	0.8 (17)	1.0 (21)	1.6 (33)	0.7 (14)	5.5 (112)
NNW	0.5 (10)	1.7 (34)	1.6 (33)	0.8 (17)	0.3 (7)	0.1 (3)	5.1 (104)
TOTAL	4.3 (87)	19.8 (404)	30.4 (620)	33.7 (687)	8.8 (180)	4.2 (85)	100.0 (2039)

FOR ALL WIND CATEGORIES

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2208

NUMBER OF MISSING WIND OBSERVATIONS: 159

NUMBER OF CALM HOURS: 25



\*\*\*\*\*  
 % 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 1982 THROUGH DEC 31 1982

JG120\*

STABILITY CLASS -- A

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

DIR	00-03	04-07	08-12	SPEED (MPH)			19-23	>24	TOTAL
				13-18					
N	0.0 ( 0)	0.0 ( 1)	0.2 ( 5)	0.2 ( 4)	0.0 ( 1)	0.0 ( 8)	0.9 ( 19)		
NNE	0.0 ( 0)	0.0 ( 1)	0.2 ( 4)	0.1 ( 2)	0.0 ( 1)	0.0 ( 1)	0.4 ( 9)		
NE	0.0 ( 0)	0.1 ( 2)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.2 ( 4)		
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)	0.1 ( 2)	0.0 ( 1)	0.0 ( 0)	0.0 ( 0)	0.1 ( 3)		
SE	0.0 ( 0)	0.0 ( 0)	0.1 ( 3)	0.2 ( 5)	0.0 ( 0)	0.0 ( 0)	0.4 ( 8)		
SSE	0.0 ( 0)	0.0 ( 0)	0.1 ( 3)	0.0 ( 1)	0.1 ( 2)	0.0 ( 0)	0.3 ( 6)		
S	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 1)	0.0 ( 4)	0.2 ( 5)		
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 ( 0)	0.0 ( 0)	0.0 ( 1)	0.0 ( 1)		
WSW	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 1)	0.0 ( 3)	0.2 ( 4)		
W	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.1 ( 3)	0.3 ( 6)		
WNW	0.0 ( 0)	0.1 ( 2)	0.0 ( 0)	0.0 ( 0)	0.2 ( 4)	0.4 ( 9)	0.7 ( 15)		
NW	0.0 ( 0)	0.0 ( 1)	0.0 ( 1)	0.1 ( 2)	0.1 ( 4)	0.3 ( 6)	0.7 ( 14)		
NNW	0.0 ( 0)	0.0 ( 1)	0.3 ( 7)	0.2 ( 4)	0.0 ( 1)	0.1 ( 3)	0.8 ( 16)		
TOTAL	0.0 ( 0)	0.4 ( 8)	1.4 ( 28)	1.0 ( 20)	0.7 ( 15)	2.0 ( 41)	5.6 ( 112)		

FOR STABILITY CLASS -- A

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 112

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

# NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1982 THROUGH DEC 31 1982

JG120\*

## STABILITY CLASS - B

### \* 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)	0.2 (4)	0.2 (5)	0.0 (0)	0.4 (9)
NNE	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (3)	0.1 (2)	0.1 (3)	0.4 (8)
NE	0.0 (0)	0.0 (1)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (3)
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 (0)	0.2 (5)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (5)
SE	0.0 (0)	0.0 (0)	0.0 (1)	0.1 (2)	0.0 (1)	0.0 (0)	0.2 (4)
SSE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)	0.1 (2)	0.0 (0)	0.1 (3)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (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 (1)	0.0 (1)
WSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (5)	0.2 (5)
W	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (3)	0.1 (3)
WNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)	0.1 (2)	0.5 (10)	0.6 (13)
NW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)	0.3 (7)	0.5 (10)	0.9 (18)
NNW	0.0 (0)	0.1 (2)	0.0 (0)	0.1 (3)	0.0 (0)	0.1 (3)	0.4 (8)
TOTAL	0.0 (0)	0.2 (4)	0.3 (7)	0.8 (16)	1.0 (20)	1.7 (35)	4.1 (82)

#### FOR STABILITY CLASS - B

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 82

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

# NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1982 THROUGH DEC 31 1982

JG120\*

## STABILITY CLASS - C

### % 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)	0.1 (2)	0.0 (1)	0.1 (3)	0.1 (2)	0.1 (2)	0.5 (10)
NNE	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (1)	0.3 (6)	0.0 (1)	0.5 (10)
NE	0.0 (0)	0.0 (0)	0.0 (1)	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)
ESE	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.1 (3)
SE	0.0 (0)	0.0 (0)	0.0 (2)	0.2 (5)	0.0 (1)	0.0 (0)	0.3 (6)
SSE	0.0 (0)	0.0 (0)	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.2 (4)
S	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.1 (2)
SSW	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (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)	0.0 (0)	0.0 (1)	0.1 (3)	0.4 (9)	0.6 (13)
W	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.8 (17)	0.9 (18)
WNW	0.0 (0)	0.0 (2)	0.0 (0)	0.1 (2)	0.4 (8)	0.8 (16)	1.3 (27)
NW	0.0 (0)	0.0 (1)	0.0 (0)	0.3 (6)	0.5 (11)	0.6 (13)	1.5 (31)
NNW	0.0 (0)	0.0 (0)	0.0 (1)	0.1 (3)	0.2 (5)	0.2 (4)	0.6 (13)
TOTAL	0.0 (0)	0.5 (10)	0.3 (6)	1.3 (26)	1.8 (36)	3.1 (62)	7.0 (140)

#### FOR STABILITY CLASS - C

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 140

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1982 THROUGH DEC 31 1982

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JG120\*

STABILITY CLASS - D

\* 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 ( 1)	0.1 ( 3)	0.4 ( 8)	0.2 ( 5)	0.1 ( 3)	0.2 ( 5)	1.2 ( 25)
NNE	0.0 ( 0)	0.0 ( 1)	0.4 ( 9)	0.6 ( 13)	0.4 ( 9)	0.3 ( 6)	1.9 ( 38)
NE	0.0 ( 0)	0.2 ( 5)	0.7 ( 14)	0.6 ( 13)	0.2 ( 5)	0.3 ( 6)	1.8 ( 37)
NENE	0.0 ( 0)	0.1 ( 1)	0.3 ( 6)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.3 ( 7)
E	0.0 ( 0)	0.0 ( 2)	0.1 ( 3)	0.0 ( 0)	0.0 ( 0)	0.0 ( 0)	0.2 ( 5)
ESE	0.1 ( 2)	0.2 ( 5)	0.7 ( 15)	0.9 ( 19)	0.0 ( 1)	0.0 ( 0)	2.1 ( 42)
SE	0.1 ( 2)	0.4 ( 9)	0.8 ( 16)	4.3 ( 87)	1.8 ( 37)	0.4 ( 8)	7.9 ( 159)
SSE	0.1 ( 3)	0.2 ( 5)	0.6 ( 13)	2.0 ( 41)	1.7 ( 35)	0.7 ( 14)	5.5 ( 111)
S	0.0 ( 0)	0.3 ( 7)	1.4 ( 29)	2.0 ( 41)	1.5 ( 31)	0.7 ( 14)	6.1 ( 122)
SSW	0.0 ( 0)	0.4 ( 8)	0.9 ( 18)	1.2 ( 25)	0.4 ( 9)	0.0 ( 1)	3.0 ( 61)
SW	0.0 ( 0)	0.0 ( 2)	0.2 ( 4)	1.0 ( 20)	0.5 ( 10)	0.1 ( 3)	1.8 ( 37)
WSW	0.0 ( 0)	0.1 ( 2)	0.4 ( 8)	0.7 ( 14)	0.5 ( 11)	1.7 ( 34)	3.4 ( 69)
W	0.0 ( 0)	0.1 ( 2)	0.4 ( 8)	0.8 ( 16)	0.3 ( 7)	2.6 ( 53)	4.3 ( 86)
WNW	0.0 ( 0)	0.1 ( 2)	0.2 ( 5)	0.4 ( 9)	0.5 ( 11)	1.3 ( 27)	2.7 ( 54)
NW	0.0 ( 1)	0.2 ( 4)	0.5 ( 11)	1.1 ( 22)	0.9 ( 18)	0.7 ( 15)	3.5 ( 71)
NNW	0.0 ( 0)	0.2 ( 4)	0.7 ( 14)	1.0 ( 20)	0.1 ( 3)	0.0 ( 1)	2.1 ( 42)
TOTAL	0.4 ( 9)	3.0 ( 60)	9.0 ( 181)	17.2 ( 345)	9.5 ( 190)	9.0 ( 181)	48.2 ( 966)

FOR STABILITY CLASS - D

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 966

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0



# NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

DATA FOR OCT 1 1982 THROUGH DEC 31 1982

SITE: NINE MILE UPPER (9)

JC120

## 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	>24	
N	0.0 (0)	0.0 (1)	0.1 (3)	0.1 (2)	0.0 (0)	0.3 (6)
NNE	0.0 (1)	0.2 (5)	0.0 (1)	0.1 (2)	0.0 (0)	0.3 (9)
NE	0.0 (0)	0.0 (1)	0.2 (5)	0.0 (1)	0.0 (0)	0.3 (7)
ENE	0.0 (0)	0.2 (5)	0.1 (3)	0.0 (0)	0.0 (0)	0.4 (8)
E	0.0 (0)	0.1 (3)	0.0 (1)	0.0 (0)	0.0 (0)	0.2 (4)
ESE	0.1 (2)	0.1 (2)	0.3 (7)	0.6 (12)	0.0 (0)	1.2 (25)
SSE	0.0 (0)	0.1 (3)	0.8 (17)	2.6 (53)	0.0 (0)	4.7 (95)
S	0.0 (1)	0.1 (3)	1.0 (21)	2.0 (40)	0.3 (6)	5.6 (132)
SSW	0.0 (1)	0.1 (3)	1.0 (20)	2.6 (52)	0.0 (1)	4.3 (86)
SW	0.1 (2)	0.1 (2)	1.4 (29)	1.4 (29)	0.0 (1)	3.2 (64)
WSW	0.0 (1)	0.0 (1)	0.4 (9)	0.1 (3)	0.0 (1)	1.4 (28)
W	0.0 (2)	0.0 (5)	0.5 (11)	0.6 (12)	0.7 (14)	2.3 (47)
WNW	0.0 (0)	0.0 (1)	0.4 (9)	0.2 (4)	0.1 (2)	1.7 (23)
NW	0.0 (1)	0.1 (2)	0.2 (5)	0.0 (1)	0.1 (3)	0.6 (12)
NNW	0.0 (0)	0.0 (1)	0.1 (8)	0.1 (3)	0.0 (0)	0.4 (8)
TOTAL	0.5 (11)	1.9 (39)	7.5 (151)	11.3 (226)	1.4 (28)	27.3 (547)

#### FOR STABILITY CLASS - E

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 548

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 1982 THROUGH DEC 31 1982

JG120\*

## STABILITY CLASS - F

% 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 (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	0.0 (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)	0.0 (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 (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)
NNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
TOTAL	0.0 (1)	1.0 (20)	1.3 (36)	1.1 (23)	0.2 (4)	0.1 (2)	4.3 (86)

FOR STABILITY CLASS - F

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 86

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

# NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1982 THROUGH DEC 31 1982

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 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
NNE	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
NE	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
ENE	0.1 (2)	0.1 (3)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (7)
E	0.1 (2)	0.0 (1)	0.2 (5)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (9)
ESE	0.1 (2)	0.0 (1)	0.3 (7)	0.1 (2)	0.0 (0)	0.0 (0)	0.6 (12)
SE	0.0 (0)	0.0 (1)	0.0 (1)	0.2 (4)	0.0 (0)	0.0 (0)	0.3 (6)
SSE	0.1 (2)	0.0 (1)	0.2 (5)	0.3 (7)	0.0 (0)	0.0 (0)	0.7 (15)
S	0.0 (0)	0.0 (0)	0.0 (1)	0.1 (3)	0.0 (0)	0.0 (0)	0.2 (4)
SSW	0.0 (0)	0.1 (2)	0.1 (2)	0.0 (1)	0.0 (0)	0.0 (0)	0.2 (5)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.2 (4)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (5)
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 (1)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
NW	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.1 (2)
NNW	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
TOTAL	0.7 (15)	0.7 (14)	1.2 (24)	0.9 (18)	0.0 (0)	0.0 (0)	3.5 (71)

FOR STABILITY CLASS - G

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 71

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

# NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1982 THROUGH DEC 31 1982

JG120\*

## STABILITY CLASS - ALL

### % 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	
N	0.0 ( 1)	0.4 ( 8)	0.8 ( 17)	0.9 ( 18)	0.5 ( 11)	3.5 ( 70)
NNE	0.1 ( 2)	0.4 ( 9)	0.7 ( 14)	1.0 ( 21)	0.9 ( 18)	3.7 ( 75)
NE	0.0 ( 0)	0.5 ( 10)	1.1 ( 23)	0.7 ( 15)	0.2 ( 5)	2.6 ( 53)
ENE	0.1 ( 3)	0.5 ( 10)	0.5 ( 11)	0.0 ( 0)	0.0 ( 0)	1.2 ( 24)
E	0.1 ( 2)	0.4 ( 9)	0.6 ( 13)	0.0 ( 0)	0.0 ( 0)	1.2 ( 24)
ESE	0.3 ( 6)	0.5 ( 10)	1.9 ( 38)	1.8 ( 37)	0.1 ( 3)	4.7 ( 94)
SE	0.1 ( 2)	0.7 ( 14)	2.0 ( 40)	8.0 ( 160)	3.2 ( 64)	14.4 ( 288)
SSE	0.3 ( 6)	0.5 ( 11)	2.4 ( 49)	5.0 ( 100)	4.1 ( 82)	13.4 ( 268)
S	0.0 ( 1)	0.9 ( 18)	2.8 ( 57)	5.0 ( 101)	2.1 ( 42)	11.9 ( 238)
SSW	0.1 ( 2)	0.6 ( 13)	2.7 ( 55)	2.8 ( 57)	0.5 ( 10)	6.9 ( 139)
SW	0.0 ( 1)	0.2 ( 5)	1.0 ( 20)	1.7 ( 34)	0.6 ( 13)	3.9 ( 79)
WSW	0.3 ( 6)	0.2 ( 4)	1.2 ( 24)	1.4 ( 29)	1.1 ( 22)	7.5 ( 151)
W	0.0 ( 1)	0.4 ( 8)	0.8 ( 17)	1.0 ( 20)	0.5 ( 10)	6.9 ( 138)
WNW	0.0 ( 1)	0.3 ( 6)	0.5 ( 10)	0.7 ( 15)	1.3 ( 27)	6.2 ( 124)
NW	0.1 ( 2)	0.5 ( 10)	0.7 ( 15)	1.7 ( 35)	2.0 ( 40)	7.3 ( 146)
NNW	0.0 ( 0)	0.5 ( 10)	1.5 ( 30)	1.6 ( 32)	0.5 ( 10)	4.6 ( 93)
TOTAL	1.8 ( 36)	7.7 ( 155)	21.6 ( 433)	33.6 ( 674)	17.8 ( 357)	100.0 ( 2004)

FOR STABILITY CLASS - ALL

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2005

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 1982 THROUGH DEC 31 1982

JG120\*

% 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	
N	0.0 ( 1)	0.4 ( 8)	0.8 ( 17)	0.9 ( 18)	0.5 ( 11)	3.5 ( 70)
NNE	0.1 ( 2)	0.4 ( 9)	0.7 ( 14)	1.0 ( 21)	0.9 ( 18)	3.7 ( 75)
NE	0.0 ( 0)	0.5 ( 10)	1.1 ( 23)	0.7 ( 15)	0.2 ( 5)	2.6 ( 53)
ENE	0.1 ( 3)	0.5 ( 10)	0.5 ( 11)	0.0 ( 0)	0.0 ( 0)	1.2 ( 24)
E	0.1 ( 2)	0.4 ( 9)	0.6 ( 13)	0.0 ( 0)	0.0 ( 0)	1.2 ( 24)
ESE	0.3 ( 6)	0.5 ( 10)	1.0 ( 38)	1.8 ( 37)	0.1 ( 3)	4.7 ( 94)
SE	0.1 ( 2)	0.7 ( 14)	2.0 ( 40)	8.0 ( 160)	3.2 ( 64)	14.4 ( 288)
SSE	0.3 ( 6)	0.5 ( 11)	2.4 ( 49)	5.0 ( 100)	4.1 ( 82)	13.4 ( 268)
S	0.0 ( 1)	0.9 ( 18)	2.8 ( 57)	5.0 ( 101)	2.1 ( 42)	11.9 ( 238)
SSW	0.1 ( 2)	0.6 ( 13)	2.7 ( 55)	2.8 ( 57)	0.5 ( 10)	6.9 ( 139)
SW	0.0 ( 1)	0.2 ( 5)	1.0 ( 20)	1.7 ( 34)	0.6 ( 13)	3.9 ( 79)
WSW	0.3 ( 6)	0.2 ( 4)	1.2 ( 24)	1.4 ( 29)	1.1 ( 22)	7.5 ( 151)
W	0.0 ( 1)	0.4 ( 8)	0.8 ( 17)	1.0 ( 20)	0.5 ( 10)	6.9 ( 138)
WNW	0.0 ( 1)	0.3 ( 6)	0.5 ( 10)	0.7 ( 15)	1.3 ( 27)	6.2 ( 124)
NW	0.1 ( 2)	0.5 ( 10)	0.7 ( 15)	1.7 ( 35)	2.0 ( 40)	7.3 ( 146)
NNW	0.0 ( 0)	0.5 ( 10)	1.5 ( 30)	1.6 ( 32)	0.5 ( 10)	4.6 ( 93)
TOTAL	1.8 ( 36)	7.7 ( 155)	21.6 ( 433)	33.6 ( 674)	17.8 ( 357)	100.0 ( 2004)

FOR ALL WIND CATEGORIES

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2208

NUMBER OF MISSING WIND OBSERVATIONS: 204

NUMBER OF CALM HOURS: 0