

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

July 1981 - December 1981

DOCKET NO.: 50-333
LICENSE NO.: DPR-59

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POWER AUTHORITY OF THE STATE OF NEW YORK
 JAMES A. FITZPATRICK NUCLEAR POWER PLANT
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 SEMIANNUAL REPORT/JULY - DECEMBER 1981
 SUPPLEMENTAL INFORMATION

UTILITY: JAFNPP

LICENSEE: POWER AUTHORITY OF THE STATE OF NEW YORK

1. Regulatory Limits

a. Fission and activation gases:

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

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:

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

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 (μCi/cc)</u>	<u>Nuclide</u>	<u>MPC (μCi/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)	6.62E-06μCi/ml	Quarter 3
(2)	3.46E-05μCi/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	5.18E-01	6.71E-01
b.	Ground level release:	MeV	4.46E-01	5.21E-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:	147	645
(2) Total time period for batch releases:	104.3 hrs.	467.3 hrs.
(3) Maximum time period for batch release:	9.25 hrs.	22 hrs.
(4) Average time period for batch release:	0.72 hrs.	0.72 hrs.
(5) Minimum time period for batch release:	0.12 hrs.	0.1 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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 GASEOUS EFFLUENTS--SUMMATION OF ALL RELEASES

	UNIT	QUARTER 3	QUARTER 4	EST. TOTAL ERROR %
A. FISSION AND ACTIVATION GASES				
1. Total release	Ci	7.08E+04	1.28E+04	1.00E+01
2. Average release rate for period	μCi/sec	8.91E+03	1.61E+03	
3. Tech. Spec. limit	%	*	*	
B. IODINES				
1. Total iodine-131	Ci	4.35E-02	7.53E-03	1.00E+01
2. Average release rate for period	μCi/sec	5.47E-03	9.47E-04	
3. Tech. Spec. limit	%	*	*	
C. PARTICULATES				
1. Particulates with half-lives >8 days	Ci	7.62E-02	7.53E-02	1.00E+01
2. Average release rate for period	μCi/sec	9.59E-03	9.47E-03	
3. Tech. Spec. limit	%	*	*	
4. Gross alpha radioactivity	Ci	5.43E-06	3.12E-06	1.00E+01
D. TRITIUM				
1. Total release	Ci	1.24E 00	2.09E-01	1.00E+01
2. Average release rate for period	μCi/sec	1.56E-01	2.63E-02	
*E. PERCENT OF TECHNICAL SPECIFICATION LIMITS				
FISSION AND ACTIVATION GASES				
1. JAF elevated release	%	6.51E-01	1.51E-01	
2. NMP-1 elevated release	%	0	0	
3. JAF ground level release	%	3.44E-01	1.53E-01	
4. Total site release	%	9.95E-01	3.04E-01	
HALOGENS AND PARTICULATES WITH HALF-LIVES >8 DAYS				
5. JAF elevated release	%	2.64E-01	1.34E-01	
6. NMP-1 elevated release	%	1.32E-02	1.26E-02	
7. JAF ground level release	%	1.83E 00	5.40E-01	
8. Total site release	%	2.11E 00	6.87E-01	

TABLE 1B

POWER AUTHORITY OF THE STATE OF NEW YORK
 JAMES A. FITZPATRICK NUCLEAR POWER PLANT
 EFFLUENT AND WASTE DISPOSAL
 SEMIANNUAL REPORT/JULY - DECEMBER 1981
 GASEOUS EFFLUENTS--ELEVATED RELEASE

CONTINUOUS MODE

NUCLIDES RELEASED	UNIT	QUARTER 3	QUARTER 4
1. <u>Fission gases</u>			
nitrogen-13	Ci	2.70E+03	1.25E+02
argon-41	Ci	7.95E+01	1.80E+01
krypton-85m	Ci	4.16E+03	7.80E+02
krypton-87	Ci	4.94E+03	1.12E+03
krypton-88	Ci	8.70E+03	1.66E+03
xenon-131m	Ci	1.30E+04	2.47E+03
xenon-133	Ci	1.00E+04	1.42E+03
xenon-133m	Ci	3.54E+01	ND
xenon-135	Ci	2.16E+04	1.30E+03
xenon-135m	Ci	1.57E+03	8.04E+02
xenon-138	Ci	3.15E+03	2.79E+03
2. <u>Iodines</u>			
iodine-131	Ci	3.12E-02	4.57E-03
iodine-133	Ci	1.52E-01	4.95E-02
iodine-135	Ci	2.19E-01	7.18E-02
3. <u>Particulates</u>			
manganese-54	Ci	8.72E-05	1.71E-05
cobalt-58	Ci	8.95E-06	ND
cobalt-60	Ci	8.72E-06	1.16E-05
zirconium-niobium-95	Ci	ND	1.84E-07
strontium-89	Ci	6.69E-02	6.69E-02
strontium-90	Ci	6.47E-05	6.47E-05
cesium-137	Ci	2.89E-04	1.77E-04
barium-lanthanum-140	Ci	5.34E-03	4.34E-03

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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 EFFLUENT AND WASTE DISPOSAL
 SEMIANNUAL REPORT/JULY - DECEMBER 1981
 GASEOUS EFFLUENTS--GROUND LEVEL RELEASES

CONTINUOUS MODE

NUCLIDES RELEASED	UNIT	QUARTER 3	QUARTER 4
1. <u>Fission gases</u>			
nitrogen-13	Ci	2.20E+02	1.21E+01
krypton-87	Ci	1.10E+01	6.06E 00
krypton-88	Ci	6.51E 00	1.04E+01
xenon-133	Ci	3.01E+02	6.53E+01
xenon-135	Ci	1.69E+02	9.96E+01
xenon-135m	Ci	1.90E+02	7.54E+01
xenon-138	Ci	ND	8.18E+01
2. <u>Iodines</u>			
iodine-131	Ci	1.23E-02	2.96E-03
iodine-133	Ci	2.62E-02	8.55E-03
iodine-135	Ci	2.96E-02	9.66E-03
3. <u>Particulates</u>			
chromium-51	Ci	5.71E-04	5.05E-04
manganese-54	Ci	7.24E-05	2.26E-04
cobalt-58	Ci	4.92E-05	1.78E-04
cobalt-60	Ci	9.16E-04	1.84E-03
strontium-89	Ci	4.71E-04	4.71E-04
zirconium-niobium-95	Ci	2.55E-06	1.46E-05
cesium-134	Ci	7.36E-05	ND
cesium-137	Ci	8.02E-05	2.64E-05
barium-lanthanum-140	Ci	1.18E-03	5.19E-04
cerium-141	Ci	ND	1.50E-06
zinc-65	Ci	3.76E-05	1.21E-05
strontium-90	Ci	1.96E-06	1.96E-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 - DECEMBER 1981
 LIQUID EFFLUENTS--SUMMATION OF ALL RELEASES

	UNIT	QUARTER 3	QUARTER 4	EST. TOTAL ERROR %
A. FISSION AND ACTIVATION GASES				
1. Total release (not including tritium and alpha)	Ci	3.20E-02	1.59E 00	1.00E+01
2. Average diluted concentration during period	µCi/ml	1.66E-10	1.44E-08	
3. Applicable limit	%	2.50E-03	4.15E-02	
B. TRITIUM				
1. Total release	Ci	2.52E-01	2.89E 00	1.00E+01
2. Average diluted concentration during period	µCi/ml	1.30E-09	2.61E-08	
3. Applicable limit	%	4.35E-05	8.69E-04	
C. DISSOLVED AND ENTRAINED GASES				
1. Total release	Ci	1.89E-03	8.05E-02	1.00E+01
2. Average diluted concentration during period	µCi/ml	9.78E-12	7.27E-10	
3. Applicable limit	%	9.78E-16	7.27E-14	
D. GROSS ALPHA RADIOACTIVITY				
Total release	Ci	2.05E-06	ND	1.00E+01
E. VOLUME OF WASTE RELEASED (PRIOR TO DILUTION)				
	Liters	1.13E+06	1.39E+07	1.00E+01
F. VOLUME OF DILUTION WATER USED DURING PERIOD				
	Liters	1.93E+11	1.11E+11	1.00E+01

ND - None detected.

TABLE 2B

POWER AUTHORITY OF THE STATE OF NEW YORK
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 SEMIANNUAL REPORT/JULY - DECEMBER 1981
 LIQUID EFFLUENTS

NUCLIDES RELEASED	UNIT	BATCH MODE	
		QUARTER 1	QUARTER 2
silver-110m	Ci	1.06E-05	2.01E-04
cesium-134	Ci	4.65E-04	2.14E-02
cesium-137	Ci	1.15E-03	4.16E-02
iodine-131	Ci	5.91E-04	1.97E-04
iodine-133	Ci	1.70E-03	1.88E-03
iodine-135	Ci	7.31E-04	5.13E-04
barium-lanthanum-140	Ci	4.97E-06	8.28E-04
cobalt-58	Ci	8.33E-04	1.66E-01
cobalt-60	Ci	2.01E-02	9.69E-01
iron-59	Ci	2.23E-04	6.99E-03
zinc-65	Ci	2.07E-04	2.23E-02
manganese-54	Ci	3.07E-03	2.34E-01
chromium-51	Ci	4.39E-04	2.51E-03
antimony-124	Ci	2.12E-05	2.04E-03
molybdenum-99	Ci	1.37E-05	5.81E-04
technetium-99m	Ci	1.10E-04	9.89E-04
cerium-141	Ci	2.88E-06	4.38E-05
cerium-144	Ci	ND	5.90E-04
zirconium-niobium-95	Ci	5.21E-06	2.24E-04
sodium-24	Ci	2.60E-04	2.53E-03
arsenic-76	Ci	3.11E-06	2.01E-04
neptunium-239	Ci	1.42E-04	3.35E-02
xenon-133	Ci	2.75E-04	2.66E-02
xenon-135	Ci	1.62E-03	5.37E-02
krypton-85m	Ci	ND	4.32E-06
strontium-90	Ci	3.49E-05	ND

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 - DECEMBER 1981
 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 ³	1.84E+02	1.00E+01
evaporator bottoms, etc.	Ci	6.09E+02	1.00E+01
b. Dry compressible waste,	m ³	3.15E+02	1.00E+01
contaminated equipment, etc.	Ci	1.41E+01	1.00E+01
c. Irradiated components (None)			
d. Other (None)			
2. <u>Estimate of Major Nuclide Composition</u>			
cobalt-60		71.9%	1.00E+01
manganese-54		10.2%	
cobalt-58		3.1%	
cesium-137		7.1%	
zinc-65		3.3%	
cesium-134		3.7%	

3. Solid Waste Disposition

SHIPMENT	QTY.	TRANSPORTA- TION MODE	DESTINATION
Type a and b	40	Truck	Barnwell, SC
Type b	11	Truck	Richland, WA

B. IRRADIATED FUEL SHIPMENTS (NONE)

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REPORT NOTES

- 1) Fourth Quarter I-133 and I-135 (Tables 1B and 1C) calculated from Third Quarter results for the month of October while plant was generating.
- 2) Third Quarter Sr-89 and Sr-90 (Tables 1B and 1C) results used for Fourth Quarter release calculations on gas releases (vents and stack).
- 3) Particulates with half-lives >8 days % Technical Specification for Third and Fourth Quarter vents and stack releases are calculated by applying I-131 equivalencies.

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, 1981

1. Meat samples were collected at only two of the three required sampling locations during the spring sampling period. Weekly calls to the local slaughterhouses beginning on April 29, 1981 and continuing until June 5, 1981, resulting in two on-site samples and one control (off-site) sample. A fourth sample was collected during the spring sampling period (in lieu of the unobtainable third on-site sample) which was located outside the ten mile radius requirement for on-site sample. A third on-site sample was collected on July 9, 1981, which was outside the spring sampling period.

The difficulty in obtaining the required number of samples may be attributed to several factors. First the number of animals raised for meat and located within the ten mile radius of the plant is not extensive. Secondly, butchering of animals is not always performed at the local meat market. Third, and most significant is the fact that the vast majority of meat is butchered in the fall so animals can graze in pasture for the summer to economically increase the meat yield.

The collection of spring meat samples has historically been a difficult sample media to obtain due to seasonal unavailability.

2. Environmental radiation monitor I on-site was inoperable 1/12/81 (1100 hrs.) to 1/15/81 (1000 hrs.). Malfunction of monitor was due to technician error.
3. Environmental monitoring stations H and I on-sites were inoperable from 3/9/81 (1245 hrs.) to 3/12/81 (1200 hrs.) due to loss of electrical supply power. Circuit breaker in the supply line transformer was defective.
4. Environmental radiation monitor G on-site was inoperable from 7/4/81 (0800 hrs.) to 7/6/81 (1300 hrs.) due to monitor failure.
5. Environmental monitoring station I on-site was inoperable from 8/3/81 (1430 hrs.) to 8/6/81 (1530 hrs.) due to electrical problems. The cause of the electrical problem was suspected to be the result of a lightning strike.
6. Environmental radiation monitor D-2 on-site was inoperable from 8/8/81 (1730 hrs.) to 8/14/81 (1300 hrs.) due to monitor failure.
7. Environmental radiation monitor G on-site was inoperable from 9/10/81 (1000 hrs.) to 9/17/81 (1415 hrs.) due to monitor failure.

8. Environmental radiation monitor I on-site was inoperable from 9/21/81 (0830 hrs.) to 9/23/81 (0900 hrs.) due to monitor failure.
9. Environmental radiation monitor H on-site was inoperable from 11/16/81 (1430 hrs.) to 11/17/81 (0840 hrs.) due to monitor failure.
10. Environmental radiation monitor G on-site was inoperable from 12/28/81 (1500 hrs.) to 12/29/81 (1500 hrs.) due to monitor failure.

***** 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 1981 THROUGH SEPT 30 1981

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	0.1 (1)	0.3 (4)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (6)
NNE	0.0 (0)	0.6 (9)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.8 (12)
NE	0.0 (0)	0.3 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (4)
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)	0.1 (2)	0.1 (2)	0.1 (1)	0.0 (0)	0.0 (0)	0.3 (5)
ESE	0.0 (0)	0.1 (2)	0.5 (7)	0.2 (3)	0.2 (3)	0.0 (0)	1.0 (15)
SE	0.0 (0)	0.0 (0)	0.5 (7)	0.9 (13)	0.1 (1)	0.0 (0)	1.4 (21)
SSE	0.1 (1)	0.1 (1)	0.3 (5)	0.4 (6)	0.0 (0)	0.0 (0)	0.9 (13)
S	0.0 (0)	0.2 (3)	0.5 (7)	0.3 (5)	0.0 (0)	0.0 (0)	1.0 (15)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.1 (1)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
WSW	0.0 (0)	0.5 (7)	1.3 (20)	1.7 (26)	0.3 (4)	0.2 (3)	4.0 (60)
W	0.1 (2)	0.6 (9)	1.3 (20)	0.1 (2)	0.0 (0)	0.0 (0)	2.2 (33)
WNW	0.1 (1)	0.5 (8)	0.4 (6)	0.3 (5)	0.1 (1)	0.0 (0)	1.4 (21)
NW	0.4 (6)	0.3 (4)	0.3 (5)	0.5 (7)	0.5 (7)	0.1 (2)	2.1 (31)
NNW	0.3 (4)	0.4 (6)	0.2 (3)	0.1 (1)	0.2 (3)	0.1 (1)	1.2 (18)
TOTAL	1.1 (16)	4.2 (63)	5.7 (85)	4.6 (69)	1.3 (19)	0.4 (6)	17.2 (259)

FOR STABILITY CLASS - A

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 283

NUMBER OF MISSING WIND OBSERVATIONS: 24

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9) DATA FOR JULY 1 1981 THROUGH SEPT 30 1981

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)	0.1 (1)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
NNE	0.1 (1)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
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 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (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)	0.1 (1)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (2)
SE	0.0 (0)	0.1 (1)	0.1 (1)	0.1 (2)	0.0 (0)	0.0 (0)	0.3 (4)
SSE	0.0 (0)	0.0 (0)	0.1 (2)	0.3 (4)	0.0 (0)	0.0 (0)	0.4 (6)
S	0.0 (0)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
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)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.1 (1)	0.1 (2)	0.9 (13)	0.1 (1)	0.1 (2)	0.1 (1)	1.3 (20)
W	0.0 (0)	0.1 (2)	0.3 (4)	0.1 (2)	0.0 (0)	0.0 (0)	0.5 (8)
WNW	0.0 (0)	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
NW	0.1 (2)	0.1 (1)	0.0 (0)	0.1 (1)	0.2 (3)	0.0 (0)	0.5 (7)
NNW	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (1)	0.1 (2)
TOTAL	0.3 (4)	0.7 (10)	1.8 (27)	0.8 (12)	0.3 (5)	0.1 (2)	4.0 (60)

FOR STABILITY CLASS - B

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 69

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 1981 THROUGH SEPT 30 1981

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)	0.1 (2)	0.0 (0)	0.0 (0)	0.1 (2)	0.3 (4)
NNE	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
NE	0.0 (0)	0.1 (1)	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	0.1 (1)	0.1 (1)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.2 (3)
SSE	0.0 (0)	0.1 (1)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
S	0.1 (1)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
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 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (4)
WSW	0.0 (0)	0.1 (2)	0.3 (5)	0.3 (5)	0.1 (2)	0.0 (0)	0.9 (14)
W	0.0 (0)	0.1 (1)	0.5 (7)	0.1 (2)	0.1 (1)	0.0 (0)	0.7 (11)
WNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NW	0.1 (2)	0.1 (2)	0.0 (0)	0.1 (2)	0.1 (1)	0.0 (0)	0.5 (7)
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 (4)	0.7 (11)	1.3 (20)	0.7 (10)	0.3 (4)	0.2 (3)	3.5 (52)

FOR STABILITY CLASS - C

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 73

NUMBER OF MISSING WIND OBSERVATIONS: 21

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1981 THROUGH SEPT 30 1981

JG120*

STABILITY CLASS - F

% 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	0.1 (1)	0.3 (4)	0.1 (2)	0.7 (11)	0.1 (1)	0.0 (0)	1.3 (19)
NNE	0.1 (1)	0.1 (1)	0.1 (1)	0.5 (7)	0.0 (0)	0.0 (0)	0.7 (10)
NE	0.1 (1)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
ENE	0.1 (1)	0.1 (1)	0.1 (2)	0.3 (4)	0.1 (1)	0.0 (0)	0.6 (9)
E	0.1 (1)	0.1 (1)	0.2 (3)	0.1 (1)	0.0 (0)	0.0 (0)	0.4 (6)
ESE	0.1 (1)	0.1 (2)	0.5 (8)	0.2 (3)	0.0 (0)	0.0 (0)	0.9 (14)
SE	0.1 (2)	0.3 (4)	1.1 (16)	1.1 (17)	0.0 (0)	0.0 (0)	2.6 (39)
SSE	0.1 (1)	0.3 (4)	0.2 (3)	0.5 (7)	0.0 (0)	0.0 (0)	1.0 (15)
S	0.1 (1)	0.1 (2)	0.6 (9)	0.1 (2)	0.0 (0)	0.0 (0)	0.9 (14)
SSW	0.1 (2)	0.3 (5)	0.2 (3)	0.1 (1)	0.0 (0)	0.0 (0)	0.7 (11)
SW	0.0 (0)	0.5 (7)	0.7 (10)	0.0 (0)	0.2 (3)	0.1 (2)	1.5 (22)
WSW	0.1 (1)	0.7 (11)	1.4 (21)	1.3 (20)	0.3 (4)	0.3 (5)	4.1 (62)
W	0.1 (1)	0.5 (8)	0.9 (14)	1.7 (26)	0.1 (1)	0.1 (1)	3.4 (51)
WNW	0.0 (0)	0.3 (4)	0.3 (4)	0.5 (8)	0.2 (3)	0.0 (0)	1.3 (19)
NW	0.2 (3)	0.1 (1)	0.3 (4)	0.3 (4)	0.4 (6)	0.1 (1)	1.3 (19)
NNW	0.0 (0)	0.0 (0)	0.1 (1)	0.3 (4)	0.1 (2)	0.8 (12)	1.3 (19)
TOTAL	1.1 (17)	3.7 (56)	6.8 (102)	7.6 (115)	1.4 (21)	1.4 (21)	22.0 (332)

FOR STABILITY CLASS - D

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 546

NUMBER OF MISSING WIND OBSERVATIONS: 214

NUMBER OF CALM HOURS: 1

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1981 THROUGH SEPT 30 1981

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	(2)	0.0	(0)	0.3	(4)	0.5	(7)	0.1	(2)	0.1	(2)	1.1	(17)
NNE	0.1	(2)	0.2	(3)	0.3	(5)	0.5	(7)	0.0	(0)	0.0	(0)	1.1	(17)
NE	0.1	(1)	0.1	(1)	0.7	(10)	0.1	(1)	0.0	(0)	0.0	(0)	0.9	(13)
ENE	0.1	(1)	0.1	(2)	0.3	(5)	0.1	(2)	0.0	(0)	0.0	(0)	0.7	(10)
E	0.1	(1)	0.0	(0)	0.7	(10)	0.4	(6)	0.0	(0)	0.0	(0)	1.1	(17)
ESE	0.0	(0)	0.3	(4)	1.1	(16)	0.6	(9)	0.0	(0)	0.0	(0)	1.9	(29)
SE	0.1	(2)	0.4	(6)	1.4	(21)	3.9	(59)	0.3	(5)	0.0	(0)	6.2	(93)
SSE	0.1	(2)	0.5	(7)	0.7	(10)	1.1	(16)	0.0	(0)	0.0	(0)	2.3	(35)
S	0.1	(2)	0.2	(3)	0.3	(5)	1.9	(28)	0.0	(0)	0.0	(0)	2.5	(38)
SSW	0.2	(3)	0.3	(5)	0.4	(6)	0.1	(2)	0.0	(0)	0.0	(0)	1.1	(16)
SW	0.0	(0)	0.5	(7)	0.6	(9)	0.7	(11)	0.1	(1)	0.0	(0)	1.9	(28)
WSW	0.0	(0)	0.3	(4)	0.9	(13)	1.3	(20)	0.5	(8)	0.3	(5)	3.3	(50)
W	0.1	(2)	0.1	(2)	0.2	(3)	0.6	(9)	0.3	(4)	0.2	(3)	1.5	(23)
WNW	0.3	(5)	0.1	(2)	0.5	(8)	0.0	(0)	0.0	(0)	0.0	(0)	1.0	(15)
NW	0.1	(1)	0.1	(1)	0.6	(9)	0.1	(1)	0.1	(1)	0.0	(0)	0.9	(13)
NNW	0.0	(0)	0.1	(1)	0.7	(10)	0.6	(9)	0.1	(2)	0.1	(1)	1.5	(23)
TOTAL	1.6	(24)	3.2	(48)	9.6	(144)	12.4	(187)	1.5	(23)	0.7	(11)	29.0	(437)

FOR STABILITY CLASS - E

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 648

NUMBER OF MISSING WIND OBSERVATIONS: 211

NUMBER OF CALM HOURS: 4

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1981 THROUGH SEPT 30 1981

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	0.1 (2)	0.1 (1)	0.5 (7)	0.0 (0)	0.0 (0)	0.0 (0)	0.7 (10)
NNE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NE	0.2 (3)	0.1 (1)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (6)
ENE	0.0 (0)	0.3 (4)	0.3 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (8)
E	0.1 (2)	0.1 (1)	0.2 (3)	0.2 (3)	0.0 (0)	0.0 (0)	0.6 (9)
ESE	0.1 (1)	0.0 (0)	0.3 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (5)
SE	0.1 (1)	0.1 (2)	0.3 (4)	0.5 (8)	0.0 (0)	0.0 (0)	1.0 (15)
SSE	0.0 (0)	0.1 (1)	0.2 (3)	0.3 (4)	0.0 (0)	0.0 (0)	0.5 (8)
S	0.1 (1)	0.2 (3)	0.2 (3)	0.6 (9)	0.0 (0)	0.0 (0)	1.1 (16)
SSW	0.0 (0)	0.1 (2)	0.5 (7)	0.9 (14)	0.0 (0)	0.0 (0)	1.5 (23)
SW	0.2 (3)	0.3 (5)	1.1 (17)	0.7 (10)	0.0 (0)	0.0 (0)	2.3 (35)
WSW	0.1 (1)	0.2 (3)	0.5 (7)	0.0 (0)	0.0 (0)	0.0 (0)	0.7 (11)
W	0.1 (2)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)	0.4 (6)
WNW	0.0 (0)	0.1 (1)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
NW	0.1 (2)	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (4)
NNW	0.1 (1)	0.1 (1)	0.6 (9)	0.0 (0)	0.0 (0)	0.0 (0)	0.7 (11)
TOTAL	1.3 (19)	1.7 (26)	4.8 (73)	3.2 (48)	0.0 (0)	0.2 (3)	11.2 (169)

FOR STABILITY CLASS - F

NUMBER OF POSSIBLE HCURLY OBSERVATIONS: 192

NUMBER OF MISSING WIND OBSERVATIONS: 23

NUMBER OF CALM HOURS: 3

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

DATA FOR JULY 1 1981 THROUGH SEPT 30 1981

SITE: NINE MILE UPPER (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	0.1 (1)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
NNE	0.4 (6)	0.1 (2)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.6 (9)
NE	0.3 (5)	0.3 (5)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.8 (12)
ENE	0.1 (2)	0.3 (4)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (8)
E	0.1 (1)	0.2 (3)	0.7 (10)	0.3 (4)	0.1 (1)	0.0 (0)	1.3 (19)
ESE	0.1 (2)	0.0 (0)	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.4 (6)
SE	0.1 (2)	0.5 (8)	0.1 (6)	0.1 (1)	0.0 (0)	0.0 (0)	1.1 (17)
SSE	0.1 (1)	0.2 (3)	0.8 (12)	0.6 (9)	0.0 (0)	0.0 (0)	1.7 (25)
S	0.3 (5)	0.2 (5)	0.4 (6)	0.2 (3)	0.0 (0)	0.0 (0)	1.3 (19)
SSW	0.1 (1)	0.1 (1)	0.1 (1)	0.4 (6)	0.0 (0)	0.0 (0)	0.6 (9)
SW	0.1 (2)	0.5 (8)	0.7 (10)	0.8 (12)	0.0 (0)	0.0 (0)	2.1 (32)
WSW	0.3 (5)	0.5 (7)	0.3 (5)	0.0 (0)	0.0 (0)	0.0 (0)	1.1 (17)
W	0.1 (2)	0.3 (5)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (7)
WNW	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (4)
NW	0.3 (4)	0.2 (3)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (8)
NNW	0.1 (2)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
TOTAL	2.9 (43)	3.9 (59)	3.8 (58)	2.5 (37)	0.1 (1)	0.0 (0)	13.1 (198)

FOR STABILITY CLASS - G

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 208

NUMBER OF MISSING WIND OBSERVATIONS: 10

NUMBER OF CALM HOURS: 10

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1981 THROUGH SEPT 30 1981

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	0.5 (7)	0.8 (12)	1.2 (18)	1.2 (18)	0.2 (3)	0.3 (4)	4.1 (62)
NNE	0.7 (10)	1.0 (15)	0.8 (12)	0.9 (14)	0.0 (0)	0.0 (0)	3.4 (51)
NE	0.7 (10)	0.9 (13)	1.0 (15)	0.1 (1)	0.0 (0)	0.0 (0)	2.6 (39)
ENE	0.3 (4)	0.9 (14)	0.9 (13)	0.4 (6)	0.1 (1)	0.0 (0)	2.5 (38)
E	0.3 (5)	0.5 (7)	1.9 (28)	1.0 (15)	0.1 (1)	0.0 (0)	3.7 (56)
ESE	0.3 (4)	0.6 (9)	2.5 (37)	1.2 (18)	0.2 (3)	0.0 (0)	4.7 (71)
SE	0.5 (8)	1.5 (22)	3.6 (55)	6.7 (101)	0.4 (6)	0.0 (0)	12.7 (192)
SSE	0.3 (5)	1.1 (17)	2.5 (37)	3.1 (46)	0.0 (0)	0.0 (0)	7.0 (105)
S	0.7 (10)	1.1 (17)	2.1 (32)	3.1 (47)	0.0 (0)	0.0 (0)	7.0 (106)
SSW	0.4 (6)	0.9 (14)	1.2 (18)	1.5 (23)	0.0 (0)	0.0 (0)	4.0 (61)
SW	0.4 (6)	2.1 (31)	3.2 (48)	2.2 (33)	0.3 (4)	0.2 (3)	8.3 (125)
WSW	0.5 (8)	2.4 (36)	5.6 (84)	4.8 (72)	1.3 (20)	0.9 (14)	15.5 (234)
W	0.6 (9)	1.9 (28)	3.2 (48)	2.7 (41)	0.4 (6)	0.5 (7)	9.2 (139)
WNW	0.5 (8)	1.1 (17)	1.4 (21)	0.9 (13)	0.3 (4)	0.0 (0)	4.2 (63)
NW	1.3 (20)	0.8 (12)	1.4 (21)	1.0 (15)	1.2 (18)	0.2 (3)	5.9 (89)
NNW	0.5 (7)	0.6 (9)	1.5 (23)	1.0 (15)	0.5 (7)	1.0 (15)	5.0 (76)
TOTAL	8.4 (127)	18.1 (273)	33.8 (510)	31.7 (478)	4.8 (73)	3.1 (46)	100.0 (1507)

FOR STABILITY CLASS - ALL

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2019

NUMBER OF MISSING WIND OBSERVATIONS: 512

NUMBER OF CALM HOURS: 18

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1981 THROUGH SEPT 30 1981

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	>24	
N	0.4 (7)	1.0 (16)	1.5 (24)	1.5 (24)	0.2 (3)	0.2 (4)	4.9 (78)
NNE	0.6 (10)	1.3 (21)	0.9 (15)	0.9 (14)	0.0 (0)	0.0 (0)	3.7 (60)
NE	0.6 (10)	0.9 (15)	0.9 (15)	0.1 (1)	0.0 (0)	0.0 (0)	2.6 (41)
ENE	0.2 (4)	0.9 (14)	0.8 (13)	0.4 (6)	0.1 (1)	0.0 (0)	2.4 (38)
E	0.3 (5)	0.4 (7)	1.7 (28)	0.9 (15)	0.1 (2)	0.0 (0)	3.5 (57)
ESE	0.2 (4)	0.6 (9)	2.4 (38)	1.1 (18)	0.2 (3)	0.0 (0)	4.5 (72)
SE	0.5 (8)	1.5 (24)	3.4 (55)	6.4 (102)	0.4 (6)	0.0 (0)	12.1 (195)
SSE	0.3 (5)	1.2 (19)	2.6 (42)	2.9 (46)	0.0 (0)	0.0 (0)	7.0 (112)
S	0.6 (10)	1.1 (18)	2.0 (32)	2.9 (47)	0.0 (0)	0.0 (0)	6.7 (107)
SSW	0.4 (6)	0.9 (14)	1.1 (18)	1.4 (23)	0.0 (0)	0.0 (0)	3.8 (61)
SW	0.4 (6)	1.9 (31)	3.0 (48)	2.1 (33)	0.2 (4)	0.2 (3)	7.8 (125)
WSW	0.5 (8)	2.2 (36)	5.3 (85)	4.5 (72)	1.2 (20)	0.9 (14)	14.6 (235)
W	0.6 (9)	1.9 (30)	3.0 (48)	2.6 (41)	0.4 (6)	0.4 (7)	8.8 (141)
WNW	0.6 (9)	1.3 (21)	1.4 (22)	0.8 (13)	0.2 (4)	0.0 (0)	4.3 (69)
NW	1.2 (20)	1.2 (19)	1.6 (25)	1.0 (16)	1.2 (19)	0.2 (3)	6.4 (102)
NNW	0.5 (8)	1.4 (22)	2.1 (34)	1.6 (26)	0.5 (8)	0.9 (15)	7.0 (113)
TOTAL	8.0 (129)	19.7 (316)	33.7 (542)	30.9 (497)	4.7 (76)	2.9 (46)	100.0 (1606)

FOR ALL WIND CATEGORIES

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2208

NUMBER OF MISSING WIND OBSERVATIONS: 602

NUMBER OF CALM HOURS: 18

***** 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 1981 THROUGH DEC 31 1981

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)	0.0 (0)	0.3 (4)	0.1 (1)	0.4 (6)	0.3 (4)	1.0 (15)
NNE	0.0 (0)	0.1 (1)	0.1 (2)	0.2 (3)	0.1 (2)	0.0 (0)	0.5 (8)
NE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NENE	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)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
SE	0.0 (0)	0.0 (0)	0.4 (6)	0.4 (6)	0.0 (0)	0.0 (0)	0.8 (12)
SSE	0.0 (0)	0.0 (0)	0.2 (3)	0.0 (0)	0.1 (1)	0.0 (0)	0.3 (4)
S	0.0 (0)	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
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)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
W	0.1 (1)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
WNW	0.1 (1)	0.0 (0)	0.4 (6)	0.0 (0)	0.3 (5)	0.1 (1)	0.9 (13)
NW	0.1 (1)	0.1 (2)	0.3 (4)	0.0 (0)	0.1 (1)	0.5 (8)	1.1 (16)
NNW	0.2 (3)	0.1 (2)	0.1 (2)	0.0 (0)	0.3 (4)	1.1 (17)	1.9 (28)
TOTAL	0.4 (6)	0.5 (7)	2.2 (33)	0.7 (10)	1.3 (19)	2.0 (30)	7.0 (105)

FOR STABILITY CLASS - A

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 134

NUMBER OF MISSING WIND OBSERVATIONS: 29

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1981 THROUGH DEC 31 1981

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)	0.2 (3)	0.1 (1)	0.0 (0)	0.2 (3)	0.5 (7)
NNE	0.0 (0)	0.0 (0)	0.3 (4)	0.1 (1)	0.1 (1)	0.0 (0)	0.4 (6)
NE	0.0 (0)	0.0 (0)	0.1 (1)	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)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
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)	0.1 (2)	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)	0.0 (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)	0.1 (1)	0.3 (5)	0.0 (0)	0.4 (6)
NW	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.2 (3)	0.3 (5)	0.6 (9)
NNW	0.0 (0)	0.1 (1)	0.1 (1)	0.0 (0)	0.2 (3)	1.0 (15)	1.3 (20)
TOTAL	0.0 (0)	0.1 (1)	0.9 (13)	0.5 (7)	0.8 (12)	1.5 (23)	3.7 (56)

FOR STABILITY CLASS - B

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 64

NUMBER OF MISSING WIND OBSERVATIONS: 8

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1981 THROUGH DEC 31 1981

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)	0.2 (3)	0.0 (0)	0.1 (1)	0.1 (2)	0.4 (6)
NNE	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (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	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
ESE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SE	0.0 (0)	0.0 (0)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (2)
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)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
SSW	0.0 (0)	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (4)
SW	0.0 (0)	0.1 (1)	0.1 (1)	0.1 (2)	0.0 (0)	0.0 (0)	0.3 (4)
WSW	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.1 (2)
W	0.1 (1)	0.1 (2)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (4)
WNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (6)	0.4 (6)	0.9 (14)
NW	0.0 (0)	0.0 (0)	0.1 (1)	0.1 (2)	0.3 (4)	0.5 (8)	0.9 (13)
NNW	0.0 (0)	0.0 (0)	0.2 (3)	0.1 (1)	0.2 (3)	0.5 (7)	0.9 (14)
TOTAL	0.1 (1)	0.4 (6)	0.9 (13)	0.5 (8)	0.9 (14)	1.6 (24)	4.4 (66)

FOR STABILITY CLASS - C

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 109

NUMBER OF MISSING WIND OBSERVATIONS: 43

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1981 THROUGH DEC 31 1981

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)	1.0 (15)	0.3 (4)	0.7 (10)	0.3 (4)	2.4 (36)
NNE	0.0 (0)	0.0 (0)	0.5 (7)	1.3 (20)	1.1 (16)	0.4 (6)	3.2 (49)
NE	0.0 (0)	0.1 (2)	0.3 (5)	0.3 (5)	0.5 (8)	0.0 (0)	1.3 (20)
ENE	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
E	0.1 (2)	0.7 (11)	0.3 (5)	0.0 (0)	0.0 (0)	0.0 (0)	1.2 (18)
ESE	0.4 (6)	0.3 (4)	0.5 (8)	1.4 (21)	0.5 (7)	0.0 (0)	3.0 (46)
SE	0.0 (0)	0.2 (3)	0.4 (6)	1.1 (17)	0.6 (9)	0.3 (5)	2.6 (40)
SSE	0.3 (5)	0.5 (8)	0.4 (6)	0.3 (5)	0.5 (7)	0.1 (1)	2.1 (32)
S	0.2 (3)	0.9 (13)	1.1 (16)	0.9 (14)	0.1 (1)	0.0 (0)	3.1 (47)
SSW	0.1 (1)	0.5 (7)	1.4 (21)	0.3 (5)	0.0 (0)	0.0 (0)	2.3 (34)
SW	0.1 (2)	0.1 (2)	0.4 (6)	0.6 (9)	0.3 (4)	0.0 (0)	1.5 (23)
WSW	0.1 (1)	0.0 (0)	0.2 (3)	0.7 (11)	0.3 (5)	2.5 (38)	3.8 (58)
W	0.3 (4)	0.3 (5)	0.4 (6)	0.5 (7)	0.7 (10)	0.9 (13)	3.0 (45)
WNW	0.0 (0)	0.1 (2)	0.4 (6)	1.2 (18)	1.5 (22)	6.4 (96)	9.5 (144)
NW	0.1 (1)	0.5 (7)	0.7 (10)	2.3 (34)	1.9 (28)	2.9 (44)	8.2 (124)
NNW	0.1 (2)	0.1 (1)	0.8 (12)	1.1 (17)	0.3 (4)	0.5 (7)	2.8 (43)
TOTAL	1.9 (28)	4.6 (69)	8.7 (132)	12.4 (187)	8.7 (131)	14.2 (214)	50.4 (761)

FOR STABILITY CLASS - D

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 1016

NUMBER OF MISSING WIND OBSERVATIONS: 255

NUMBER OF CALM HOURS: 2

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1981 THROUGH DEC 31 1981

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	0.0 (0)	0.2 (3)	0.1 (2)	0.3 (5)	0.1 (1)	0.1 (2)	0.9 (13)
NNE	0.0 (0)	0.1 (1)	0.2 (3)	0.2 (3)	0.1 (2)	0.0 (0)	0.6 (9)
NE	0.0 (0)	0.0 (0)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (2)
ENE	0.1 (1)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
E	0.1 (1)	0.4 (6)	0.9 (13)	0.5 (7)	0.1 (1)	0.0 (0)	1.9 (28)
ESE	0.0 (0)	0.5 (8)	0.7 (10)	1.3 (19)	0.5 (7)	0.0 (0)	2.9 (44)
SE	0.0 (0)	0.8 (12)	1.4 (21)	2.6 (40)	1.5 (23)	0.5 (7)	6.8 (103)
SSE	0.1 (2)	0.2 (3)	0.9 (14)	1.4 (21)	0.2 (3)	0.0 (0)	2.8 (43)
S	0.0 (0)	0.2 (3)	1.5 (22)	1.2 (18)	0.1 (2)	0.0 (0)	3.0 (45)
SSW	0.0 (0)	0.2 (3)	1.7 (26)	1.3 (20)	0.1 (1)	0.0 (0)	3.3 (50)
SW	0.2 (3)	0.3 (4)	0.5 (7)	0.7 (10)	0.1 (2)	0.3 (4)	2.0 (30)
WSW	0.1 (1)	0.1 (1)	0.0 (0)	0.3 (5)	0.2 (3)	1.1 (17)	1.8 (27)
W	0.1 (1)	0.2 (3)	0.0 (0)	0.1 (2)	0.1 (1)	0.3 (4)	0.7 (11)
WNW	0.1 (1)	0.0 (0)	0.2 (3)	0.0 (0)	0.1 (1)	0.5 (7)	0.8 (12)
NW	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
NNW	0.1 (1)	0.1 (1)	0.0 (0)	0.1 (1)	0.1 (1)	0.0 (0)	0.3 (4)
TOTAL	0.8 (12)	3.3 (50)	8.1 (123)	10.1 (152)	3.2 (48)	2.7 (41)	28.2 (426)

FOR STABILITY CLASS - E

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 569

NUMBER OF MISSING WIND OBSERVATIONS: 143

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1981 THROUGH DEC 31 1981

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 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
ESE	0.1 (1)	0.1 (1)	0.1 (1)	0.2 (3)	0.0 (0)	0.0 (0)	0.4 (6)
SE	0.1 (1)	0.1 (1)	0.3 (4)	0.3 (4)	0.0 (0)	0.0 (0)	0.7 (11)
SSE	0.0 (0)	0.1 (1)	0.1 (1)	0.7 (11)	0.0 (0)	0.0 (0)	0.9 (13)
S	0.0 (0)	0.0 (0)	0.1 (1)	0.6 (9)	0.0 (0)	0.0 (0)	0.7 (11)
SSW	0.1 (1)	0.1 (1)	0.1 (1)	0.4 (6)	0.0 (0)	0.0 (0)	0.7 (11)
SW	0.0 (0)	0.0 (0)	0.2 (3)	0.3 (4)	0.0 (0)	0.0 (0)	0.5 (7)
WSW	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (2)
W	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (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	0.4 (6)	0.5 (7)	0.8 (12)	2.5 (38)	0.0 (0)	0.0 (0)	4.2 (63)

FOR STABILITY CLASS - F

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 108

NUMBER OF MISSING WIND OBSERVATIONS: 45

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9) DATA FOR OCT 1 1981 THROUGH DEC 31 1981

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	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.1 (1)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (4)
SE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSE	0.1 (1)	0.1 (1)	0.0 (0)	0.3 (4)	0.0 (0)	0.0 (0)	0.4 (6)
S	0.3 (4)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (7)
SSW	0.3 (4)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (5)
SW	0.1 (1)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (3)
WSW	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
W	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
WNW	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
NW	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
NNW	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
TOTAL	1.1 (17)	0.5 (8)	0.3 (4)	0.3 (4)	0.0 (0)	0.0 (0)	2.2 (33)

FOR STABILITY CLASS - G

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 81

NUMBER OF MISSING WIND OBSERVATIONS: 48

NUMBER OF CALM HOURS: 7

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1981 THROUGH DEC 31 1981

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 (1)	0.3 (5)	1.8 (27)	0.7 (11)	1.2 (18)	1.0 (15)	5.1 (77)
NNE	0.0 (0)	0.1 (2)	1.1 (16)	1.9 (28)	1.4 (21)	0.4 (6)	4.8 (73)
NE	0.0 (0)	0.1 (2)	0.5 (7)	0.4 (6)	0.5 (8)	0.0 (0)	1.5 (23)
ENE	0.1 (1)	0.2 (3)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (5)
E	0.2 (3)	1.2 (18)	1.3 (19)	0.5 (7)	0.1 (1)	0.0 (0)	3.2 (48)
ESE	0.5 (8)	1.1 (16)	1.6 (24)	2.8 (43)	0.9 (14)	0.0 (0)	7.0 (105)
SE	0.1 (2)	1.1 (16)	2.5 (38)	4.5 (68)	2.1 (32)	0.8 (12)	11.1 (168)
SSE	0.5 (8)	0.9 (14)	1.6 (24)	2.9 (44)	0.7 (11)	0.1 (1)	6.8 (102)
S	0.5 (7)	1.2 (18)	3.0 (46)	2.8 (42)	0.2 (3)	0.0 (0)	7.7 (116)
SSW	0.5 (7)	0.8 (12)	3.4 (51)	2.1 (31)	0.1 (1)	0.0 (0)	6.8 (102)
SW	0.5 (7)	0.5 (8)	1.2 (18)	1.7 (25)	0.4 (6)	0.3 (4)	4.5 (68)
WSW	0.3 (4)	0.2 (3)	0.2 (3)	1.1 (17)	0.5 (8)	3.7 (56)	6.0 (91)
W	0.5 (8)	0.8 (12)	0.5 (8)	0.6 (9)	0.7 (11)	1.1 (17)	4.3 (65)
WNW	0.1 (2)	0.2 (3)	1.0 (15)	1.4 (21)	2.6 (39)	7.3 (110)	12.6 (190)
NW	0.3 (5)	0.7 (11)	1.0 (15)	2.3 (35)	2.4 (36)	4.3 (65)	11.1 (167)
NNW	0.5 (7)	0.3 (5)	1.2 (18)	1.3 (19)	1.0 (15)	3.0 (46)	7.3 (110)
TOTAL	4.6 (70)	9.8 (148)	21.9 (330)	26.9 (406)	14.8 (224)	22.0 (332)	100.0 (1510)

FOR STABILITY CLASS - ALL

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2081

NUMBER OF MISSING WIND OBSERVATIONS: 571

NUMBER OF CALM HOURS: 9

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1981 THROUGH DEC 31 1981

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 (1)	0.3 (5)	1.8 (27)	0.7 (11)	1.2 (18)	1.0 (15)	5.1 (77)
NNE	0.0 (0)	0.1 (2)	1.1 (16)	1.9 (28)	1.4 (21)	0.4 (6)	4.8 (73)
NE	0.0 (0)	0.1 (2)	0.5 (7)	0.4 (6)	0.5 (8)	0.0 (0)	1.5 (23)
ENE	0.1 (1)	0.2 (3)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (5)
E	0.2 (3)	1.2 (18)	1.3 (19)	0.5 (7)	0.1 (1)	0.0 (0)	3.2 (48)
ESE	0.5 (8)	1.1 (16)	1.6 (24)	2.8 (43)	0.9 (14)	0.0 (0)	6.9 (105)
SE	0.1 (2)	1.1 (15)	2.5 (38)	4.5 (68)	2.1 (32)	0.8 (12)	11.1 (168)
SSE	0.5 (8)	0.9 (14)	1.6 (24)	2.9 (44)	0.7 (11)	0.1 (1)	6.7 (102)
S	0.5 (7)	1.2 (18)	3.0 (46)	2.8 (42)	0.2 (3)	0.0 (0)	7.7 (116)
SSW	0.5 (7)	0.8 (12)	3.4 (51)	2.1 (31)	0.1 (1)	0.0 (0)	6.7 (102)
SW	0.5 (7)	0.5 (8)	1.2 (18)	1.7 (25)	0.4 (6)	0.3 (4)	4.5 (68)
WSW	0.3 (4)	0.2 (3)	0.2 (3)	1.1 (17)	0.5 (8)	3.7 (56)	6.0 (91)
W	0.5 (8)	0.8 (12)	0.5 (8)	0.6 (9)	0.7 (11)	1.1 (17)	4.3 (65)
WNW	0.1 (2)	0.2 (3)	1.0 (15)	1.4 (21)	2.6 (39)	7.4 (112)	12.7 (192)
NW	0.3 (5)	0.7 (11)	1.0 (15)	2.3 (35)	2.4 (36)	4.3 (65)	11.0 (167)
NNW	0.5 (7)	0.3 (5)	1.2 (18)	1.3 (19)	1.0 (15)	3.0 (46)	7.3 (110)
TOTAL	4.6 (70)	9.8 (148)	21.8 (330)	26.9 (406)	14.8 (224)	22.1 (334)	100.0 (1512)

FOR ALL WIND CATEGORIES

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2208

NUMBER OF MISSING WIND OBSERVATIONS: 696

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 LO-CUP (9)

DATA FOR JULY 1 1981 THROUGH SEPT 30 1981

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 (7)	0.2 (5)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.6 (13)
NNE	0.2 (5)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (5)
NE	0.3 (7)	0.3 (7)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.7 (14)
ENE	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
E	0.0 (1)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (5)
ESE	0.1 (3)	0.5 (11)	0.1 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.8 (17)
SE	0.0 (1)	0.6 (12)	0.4 (8)	0.0 (0)	0.0 (0)	0.0 (0)	1.0 (21)
SSE	0.0 (2)	0.3 (7)	0.3 (7)	0.0 (0)	0.0 (0)	0.0 (0)	0.8 (16)
S	0.0 (0)	0.7 (14)	0.2 (5)	0.0 (0)	0.0 (0)	0.0 (0)	0.9 (19)
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 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
WSW	0.1 (3)	0.5 (11)	1.7 (34)	0.2 (4)	0.0 (0)	0.0 (0)	2.6 (52)
W	0.2 (5)	0.7 (15)	0.9 (18)	0.1 (2)	0.0 (0)	0.0 (0)	2.0 (40)
WNW	0.2 (5)	0.9 (19)	0.4 (8)	0.1 (2)	0.0 (0)	0.0 (0)	1.7 (34)
NW	0.3 (6)	0.5 (10)	0.7 (14)	0.1 (2)	0.0 (0)	0.0 (0)	1.6 (32)
NNW	0.2 (4)	0.2 (5)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (10)
TOTAL	2.6 (53)	6.0 (121)	4.9 (99)	0.5 (10)	0.0 (0)	0.0 (0)	14.0 (283)

FOR STABILITY CLASS - A

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 283

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 1

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LO-CUP (9)

DATA FOR JULY 1 1981 THROUGH SEPT 30 1981

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	0.1 (2)	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
NNE	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
NE	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
ENE	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
E	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
ESE	0.0 (0)	0.1 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (3)
SE	0.0 (0)	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
SSE	0.0 (0)	0.1 (3)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (5)
S	0.0 (0)	0.1 (3)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
SSW	0.0 (1)	0.0 (0)	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 (1)	0.1 (2)	0.5 (10)	0.0 (1)	0.0 (0)	0.0 (0)	0.7 (14)
W	0.0 (1)	0.3 (7)	0.3 (6)	0.0 (1)	0.0 (0)	0.0 (0)	0.7 (15)
WNW	0.0 (0)	0.0 (1)	0.1 (3)	0.0 (1)	0.0 (0)	0.0 (1)	0.3 (6)
NW	0.0 (1)	0.1 (2)	0.1 (2)	0.0 (1)	0.0 (0)	0.0 (0)	0.3 (6)
NNW	0.0 (0)	0.0 (1)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
TOTAL	0.5 (11)	1.2 (24)	1.4 (29)	0.2 (4)	0.0 (0)	0.0 (1)	3.4 (69)

FOR STABILITY CLASS - B

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 69

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE LO-CUP (9) DATA FOR JULY 1 1981 THROUGH SEPT 30 1981

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 (3)	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (5)
NNE	0.0 (0)	0.1 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (3)
NE	0.0 (0)	0.1 (3)	0.0 (0)	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 (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 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
SE	0.0 (0)	0.0 (1)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
SSE	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
S	0.0 (1)	0.1 (2)	0.0 (0)	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)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
WSW	0.0 (1)	0.2 (5)	0.6 (12)	0.0 (1)	0.0 (0)	0.0 (0)	0.9 (19)
W	0.0 (1)	0.1 (3)	0.1 (3)	0.1 (2)	0.0 (0)	0.2 (4)	0.6 (13)
WNW	0.0 (0)	0.1 (2)	0.2 (4)	0.0 (1)	0.0 (1)	0.1 (3)	0.5 (11)
NW	0.0 (1)	0.0 (1)	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.3 (6)
NNW	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (1)
TOTAL	0.4 (9)	1.2 (24)	1.3 (26)	0.3 (6)	0.0 (1)	0.3 (7)	3.6 (73)

FOR STABILITY CLASS - C

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 73

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LO-CUP (9)

DATA FOR JULY 1 1981 THROUGH SEPT 30 1981

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	>24	
N	0.1 (3)	0.9 (18)	0.3 (6)	0.0 (0)	0.0 (0)	0.0 (0)	1.3 (27)
NNE	0.1 (3)	0.7 (14)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.9 (19)
NE	0.1 (2)	0.8 (17)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	1.0 (20)
ENE	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
E	0.2 (4)	0.6 (13)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.8 (17)
ESE	0.3 (6)	1.2 (24)	0.4 (9)	0.0 (0)	0.0 (0)	0.0 (0)	1.9 (39)
SE	0.4 (8)	1.4 (28)	0.4 (8)	0.0 (0)	0.0 (0)	0.0 (0)	2.2 (44)
SSE	0.2 (5)	0.6 (12)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.9 (18)
S	0.1 (3)	0.7 (14)	0.1 (3)	0.1 (3)	0.0 (0)	0.0 (0)	1.1 (23)
SSW	0.2 (5)	0.1 (3)	0.0 (1)	0.0 (1)	0.0 (0)	0.0 (0)	0.5 (10)
SW	0.0 (1)	0.6 (12)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.7 (15)
WSW	0.0 (1)	1.0 (20)	1.7 (35)	0.5 (10)	0.0 (0)	0.0 (0)	3.3 (66)
W	0.2 (4)	0.5 (11)	1.8 (36)	1.2 (25)	0.7 (14)	0.2 (5)	4.7 (95)
WNW	0.3 (6)	0.5 (11)	1.1 (23)	1.3 (27)	0.6 (12)	0.3 (7)	4.3 (86)
NW	0.0 (1)	0.4 (8)	1.0 (21)	0.5 (10)	0.1 (2)	0.0 (1)	2.1 (43)
NNW	0.0 (0)	0.5 (10)	0.4 (8)	0.0 (0)	0.0 (0)	0.0 (0)	0.9 (18)
TOTAL	2.7 (54)	10.8 (217)	7.7 (156)	3.8 (76)	1.4 (28)	0.6 (13)	27.0 (544)

FOR STABILITY CLASS - D

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 546

NUMBER OF MISSING WIND OBSERVATIONS: 2

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LO-CUP (9)

DATA FOR JULY 1 1981 THROUGH SEPT 30 1981

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 (4)	0.2 (4)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (9)
NNE	0.4 (8)	0.4 (9)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.8 (17)
NE	0.4 (8)	1.0 (20)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	1.4 (29)
ENE	0.6 (13)	0.6 (12)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.2 (25)
E	1.3 (26)	0.9 (19)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	2.2 (45)
ESE	0.4 (9)	4.1 (82)	0.5 (10)	0.0 (0)	0.0 (0)	0.0 (0)	5.0 (101)
SE	0.7 (15)	2.8 (57)	2.3 (46)	0.0 (1)	0.0 (0)	0.0 (0)	5.9 (119)
SSE	0.7 (14)	1.4 (28)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	2.3 (46)
S	0.4 (9)	1.9 (38)	0.9 (19)	0.1 (2)	0.0 (0)	0.0 (0)	3.4 (68)
SSW	0.2 (4)	0.8 (17)	0.2 (5)	0.0 (0)	0.0 (0)	0.0 (0)	1.3 (26)
SW	0.1 (3)	1.1 (23)	0.7 (15)	0.0 (0)	0.0 (0)	0.0 (0)	2.0 (41)
WSW	0.0 (1)	0.8 (16)	0.8 (16)	0.4 (9)	0.0 (0)	0.0 (0)	2.1 (42)
W	0.0 (0)	0.3 (7)	0.7 (15)	0.2 (5)	0.1 (2)	0.0 (0)	1.4 (29)
WNW	0.1 (3)	0.4 (8)	0.2 (5)	0.0 (0)	0.1 (3)	0.0 (0)	0.9 (19)
NW	0.2 (5)	0.9 (19)	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (0)	1.4 (28)
NNW	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
TOTAL	6.1 (124)	17.9 (361)	6.9 (139)	0.9 (19)	0.2 (5)	0.0 (0)	32.1 (648)

FOR STABILITY CLASS - E

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 648

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LO-CUP (9)

DATA FOR JULY 1 1981 THROUGH SEPT 30 1981

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	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
NE	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
ENE	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
E	1.1 (22)	0.1 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.2 (25)
ESE	0.8 (17)	0.2 (5)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.1 (22)
SE	0.7 (14)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.9 (18)
SSE	0.4 (8)	0.4 (9)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.8 (17)
S	0.9 (19)	2.3 (46)	0.1 (3)	0.0 (0)	0.0 (0)	0.0 (0)	3.4 (68)
SSW	0.2 (5)	0.5 (10)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.7 (15)
SW	0.1 (2)	0.1 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (5)
WSW	0.0 (0)	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
W	0.0 (1)	0.0 (0)	0.0 (1)	0.1 (2)	0.0 (0)	0.0 (0)	0.2 (4)
WNW	0.2 (5)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (5)
NW	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	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	5.0 (101)	4.1 (83)	0.3 (6)	0.1 (2)	0.0 (0)	0.0 (0)	9.5 (192)

FOR STABILITY CLASS - F

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 192

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 1

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

DATA FOR JULY 1 1981 THROUGH SEPT 30 1981

SITE: NINE MILE LO-CUP (9)

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 (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	1.3 (26)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.4 (28)
ESE	1.4 (28)	0.6 (12)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	2.0 (40)
SE	1.5 (30)	1.2 (24)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	2.7 (54)
SSE	0.9 (18)	0.8 (16)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.7 (35)
S	0.4 (8)	1.7 (34)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	2.1 (42)
SSW	0.0 (0)	0.1 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (3)
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	5.8 (116)	4.6 (92)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	10.3 (208)

FOR STABILITY CLASS - G

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 208

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LO-CUP (9)

DATA FOR JULY 1 1981 THROUGH SEPT 30 1981

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	0.9 (19)	1.3 (27)	0.6 (12)	0.0 (0)	0.0 (0)	0.0 (0)	2.9 (58)
NNE	0.9 (19)	1.3 (26)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	2.3 (47)
NE	1.0 (21)	2.3 (47)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	3.5 (70)
ENE	1.4 (28)	0.7 (14)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	2.1 (42)
E	4.0 (80)	2.0 (41)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	6.0 (121)
ESE	3.1 (63)	6.8 (137)	1.1 (23)	0.0 (0)	0.0 (0)	0.0 (0)	11.1 (223)
SE	3.4 (68)	6.3 (128)	3.2 (65)	0.0 (1)	0.0 (0)	0.0 (0)	13.0 (262)
SSE	2.4 (49)	3.9 (78)	0.7 (14)	0.0 (0)	0.0 (0)	0.0 (0)	7.0 (141)
S	2.0 (40)	7.5 (151)	1.5 (31)	0.2 (5)	0.0 (0)	0.0 (0)	11.3 (227)
SSW	0.8 (16)	1.6 (33)	0.3 (6)	0.0 (1)	0.0 (0)	0.0 (0)	2.8 (56)
SW	0.3 (6)	2.0 (41)	0.8 (17)	0.0 (0)	0.0 (0)	0.0 (0)	3.2 (64)
WSW	0.4 (8)	2.7 (54)	5.4 (109)	1.2 (25)	0.0 (0)	0.0 (0)	9.7 (196)
W	0.6 (12)	2.1 (43)	3.9 (79)	1.8 (37)	0.8 (16)	0.4 (9)	9.7 (196)
WNW	0.9 (19)	2.0 (41)	2.1 (43)	1.5 (31)	0.8 (16)	0.5 (11)	8.0 (161)
NW	0.7 (14)	2.1 (42)	2.0 (41)	0.8 (17)	0.1 (2)	0.0 (1)	5.8 (117)
NNW	0.3 (6)	0.9 (19)	0.5 (11)	0.0 (0)	0.0 (0)	0.0 (0)	1.8 (36)
TOTAL	23.2 (468)	45.7 (922)	22.6 (455)	5.8 (117)	1.7 (34)	1.0 (21)	100.0 (2017)

FOR STABILITY CLASS - ALL

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2019

NUMBER OF MISSING WIND OBSERVATIONS: 2

NUMBER OF CALM HOURS: 2

NIAGARA MOHAW?

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LO-CUP (9)

DATA FOR JULY 1 1981 THROUGH SEPT 30 1981

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	1.3 (28)	1.6 (34)	0.6 (12)	0.0 (0)	0.0 (0)	0.0 (0)	3.5 (74)
NNE	1.1 (23)	1.8 (39)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	3.0 (64)
NE	1.4 (29)	2.2 (47)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	3.7 (78)
ENE	1.3 (28)	0.7 (15)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	2.0 (43)
E	3.8 (81)	1.9 (41)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	5.8 (123)
ESE	3.0 (63)	6.5 (137)	1.1 (24)	0.0 (0)	0.0 (0)	0.0 (0)	10.6 (224)
SE	3.3 (69)	6.2 (132)	3.1 (65)	0.0 (1)	0.0 (0)	0.0 (0)	12.6 (267)
SSE	2.3 (49)	3.9 (82)	0.7 (14)	0.0 (0)	0.0 (0)	0.0 (0)	6.8 (145)
S	1.9 (41)	7.2 (153)	1.5 (31)	0.2 (5)	0.0 (0)	0.0 (0)	10.8 (230)
SSW	0.8 (16)	1.6 (33)	0.3 (6)	0.0 (1)	0.0 (0)	0.0 (0)	2.6 (56)
SW	0.3 (6)	1.9 (41)	0.8 (17)	0.0 (0)	0.0 (0)	0.0 (0)	3.0 (64)
WSW	0.4 (8)	2.6 (55)	5.1 (109)	1.2 (25)	0.0 (0)	0.0 (0)	9.3 (197)
W	0.7 (15)	2.1 (45)	3.7 (79)	1.7 (37)	0.8 (16)	0.4 (9)	9.5 (201)
WNW	1.2 (26)	2.1 (44)	2.0 (43)	1.5 (31)	0.8 (16)	0.5 (11)	8.1 (171)
NW	1.2 (26)	2.1 (45)	1.9 (41)	0.8 (17)	0.1 (2)	0.0 (1)	6.2 (132)
NNW	0.8 (16)	1.1 (24)	0.5 (11)	0.0 (0)	0.0 (0)	0.0 (0)	2.4 (51)
TOTAL	24.7 (524)	45.6 (967)	21.6 (457)	5.5 (117)	1.6 (34)	1.0 (21)	100.0 (2120)

FOR ALL WIND CATEGORIES

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2208

NUMBER OF MISSING WIND OBSERVATIONS: 88

NUMBER OF CALM HOURS: 2

***** 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 LO-CUP (9)

DATA FOR OCT 1 1981 THROUGH DEC 31 1981

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	0.1 (2)	0.4 (8)	0.3 (6)	0.1 (2)	0.0 (0)	0.0 (0)	0.9 (18)
NNE	0.0 (0)	0.3 (5)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (5)
NE	0.1 (1)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (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)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
ESE	0.0 (0)	0.1 (2)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
SE	0.0 (0)	0.2 (3)	0.4 (7)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (10)
SSE	0.0 (0)	0.1 (1)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (5)
S	0.0 (0)	0.2 (3)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (6)
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	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
W	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
WNW	0.3 (5)	0.1 (1)	0.3 (5)	0.0 (0)	0.0 (0)	0.1 (1)	0.9 (17)
NW	0.1 (1)	0.2 (4)	0.1 (2)	0.1 (2)	0.1 (2)	0.0 (0)	0.6 (11)
NNW	0.0 (0)	0.4 (7)	0.1 (1)	1.3 (25)	0.1 (1)	0.0 (0)	1.7 (34)
TOTAL	0.6 (11)	2.0 (40)	1.6 (31)	1.5 (29)	0.4 (8)	0.1 (1)	6.1 (120)

FOR STABILITY CLASS - A

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 134

NUMBER OF MISSING WIND OBSERVATIONS: 14

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LO-CUP (9)

DATA FOR OCT 1 1981 THROUGH DEC 31 1981

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)	0.3 (5)	0.2 (3)	0.1 (1)	0.0 (0)	0.0 (0)	0.5 (9)
NNE	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
NE	0.0 (0)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
ENE	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (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)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
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)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
S	0.0 (0)	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
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)	0.1 (1)	0.1 (1)
WNW	0.0 (0)	0.0 (0)	0.1 (2)	0.1 (2)	0.2 (3)	0.0 (0)	0.4 (7)
NW	0.0 (0)	0.0 (0)	0.1 (2)	0.2 (3)	0.2 (3)	0.0 (0)	0.4 (8)
NNW	0.0 (0)	0.1 (2)	0.2 (4)	0.8 (15)	0.1 (2)	0.0 (0)	1.2 (23)
TOTAL	0.1 (1)	0.9 (17)	0.8 (15)	1.1 (21)	0.4 (8)	0.1 (1)	3.2 (63)

FOR STABILITY CLASS - B

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 64

NUMBER OF MISSING WIND OBSERVATIONS: 1

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LO-CUP (9)

DATA FOR OCT 1 1981 THROUGH DEC 31 1981

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 (3)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (6)
NNE	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
NE	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
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)	0.1 (1)	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 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
SSE	0.0 (0)	0.1 (2)	0.1 (1)	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 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
SW	0.0 (0)	0.1 (1)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.2 (3)
WSW	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.2 (3)
W	0.1 (1)	0.2 (3)	0.0 (0)	0.0 (0)	0.2 (3)	0.4 (7)	0.7 (14)
WNW	0.0 (0)	0.1 (1)	0.0 (0)	0.3 (5)	0.3 (5)	0.4 (8)	1.0 (19)
NW	0.0 (0)	0.2 (3)	0.4 (7)	0.7 (13)	0.3 (5)	0.1 (2)	1.5 (30)
NNW	0.0 (0)	0.3 (5)	0.3 (5)	0.3 (6)	0.1 (1)	0.0 (0)	0.9 (17)
TOTAL	0.1 (1)	1.4 (27)	1.0 (19)	1.3 (26)	0.7 (14)	1.0 (19)	5.3 (106)

FOR STABILITY CLASS - C

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 109

NUMBER OF MISSING WIND OBSERVATIONS: 3

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LO-CUP (9)

DATA FOR OCT 1 1981 THROUGH DEC 31 1981

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)	1.4 (28)	0.6 (12)	0.2 (4)	0.0 (0)	0.0 (0)	2.4 (47)
NNE	0.3 (5)	1.8 (36)	0.5 (9)	0.0 (0)	0.0 (0)	0.0 (0)	2.5 (50)
NE	0.3 (6)	2.3 (46)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	2.8 (56)
ENE	0.3 (6)	0.3 (5)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.6 (11)
E	1.1 (21)	0.8 (15)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	1.9 (38)
ESE	0.4 (7)	1.7 (33)	0.9 (18)	0.1 (1)	0.0 (0)	0.0 (0)	3.0 (59)
SE	0.5 (10)	0.9 (18)	1.3 (25)	0.3 (5)	0.0 (0)	0.0 (0)	2.9 (58)
SSE	0.2 (3)	0.5 (10)	0.8 (15)	0.0 (0)	0.0 (0)	0.0 (0)	1.4 (28)
S	0.2 (4)	1.6 (31)	0.6 (12)	0.2 (3)	0.0 (0)	0.0 (0)	2.5 (50)
SSW	0.4 (8)	1.0 (20)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	1.6 (32)
SW	0.1 (2)	0.1 (2)	0.7 (14)	0.3 (6)	0.0 (0)	0.0 (0)	1.2 (24)
WSW	0.1 (2)	0.2 (3)	0.5 (9)	0.5 (9)	0.6 (12)	1.3 (26)	3.1 (61)
W	0.2 (3)	0.3 (6)	0.7 (14)	1.4 (28)	0.5 (9)	1.0 (19)	4.0 (79)
WNW	0.2 (4)	0.6 (11)	0.9 (18)	2.1 (41)	2.5 (50)	2.4 (48)	8.7 (172)
NW	0.1 (2)	0.7 (14)	2.9 (58)	3.1 (62)	1.4 (28)	0.5 (9)	8.7 (173)
NNW	0.1 (2)	0.9 (18)	1.2 (24)	0.6 (12)	0.1 (2)	0.0 (0)	2.9 (58)
TOTAL	4.4 (88)	14.9 (296)	12.0 (238)	8.6 (171)	5.1 (101)	5.1 (102)	50.2 (996)

FOR STABILITY CLASS - D

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 1016

NUMBER OF MISSING WIND OBSERVATIONS: 20

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LO-CUP (9)

DATA FOR OCT 1 1981 THROUGH DEC 31 1981

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 (2)	0.2 (4)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (7)
NNE	0.3 (6)	0.4 (8)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.7 (14)
NE	0.2 (4)	0.4 (7)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.6 (11)
ENE	0.7 (14)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.8 (15)
E	1.3 (25)	1.0 (20)	0.3 (6)	0.0 (0)	0.0 (0)	0.0 (0)	2.6 (51)
ESE	0.9 (18)	2.1 (42)	1.7 (34)	0.1 (1)	0.0 (0)	0.0 (0)	4.8 (95)
SE	0.9 (17)	2.6 (52)	1.7 (33)	0.2 (4)	0.0 (0)	0.0 (0)	5.3 (106)
SSE	0.7 (13)	1.8 (36)	0.6 (12)	0.0 (0)	0.0 (0)	0.0 (0)	3.1 (61)
S	0.6 (12)	2.4 (48)	1.0 (19)	0.0 (0)	0.0 (0)	0.0 (0)	4.0 (79)
SSW	0.1 (1)	1.4 (27)	0.3 (5)	0.0 (0)	0.0 (0)	0.0 (0)	1.7 (33)
SW	0.1 (1)	0.3 (5)	0.3 (6)	0.2 (4)	0.1 (1)	0.0 (0)	0.9 (17)
WSW	0.1 (1)	0.2 (3)	0.5 (9)	0.4 (8)	0.4 (7)	0.1 (1)	1.5 (29)
W	0.1 (2)	0.0 (0)	0.1 (1)	0.1 (2)	0.3 (6)	0.1 (2)	0.7 (13)
WNW	0.0 (0)	0.1 (1)	0.1 (2)	0.1 (2)	0.2 (3)	0.1 (2)	0.5 (10)
NW	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (2)
NNW	0.1 (2)	0.0 (0)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (6)
TOTAL	6.0 (118)	12.9 (255)	6.7 (132)	1.1 (22)	0.9 (17)	0.3 (5)	27.7 (549)

FOR STABILITY CLASS - E

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 569

NUMBER OF MISSING WIND OBSERVATIONS: 20

NUMBER OF CALM HOURS: 1

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LO-CUP (9)

DATA FOR OCT 1 1981 THROUGH DEC 31 1981

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	0.0 (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	0.1 (1)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
ESE	0.2 (3)	0.3 (6)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (9)
SE	0.5 (10)	1.1 (21)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	1.6 (32)
SSE	0.5 (9)	0.7 (14)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.2 (23)
S	0.4 (7)	0.7 (14)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.1 (21)
SSW	0.0 (0)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
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)	0.3 (6)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (6)
TOTAL	1.6 (31)	3.2 (63)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	4.8 (95)

FOR STABILITY CLASS - F

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 108

NUMBER OF MISSING WIND OBSERVATIONS: 13

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LO-CUP (9)

DATA FOR OCT 1 1981 THROUGH DEC 31 1981

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	0.4 (7)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (7)
ESE	0.5 (10)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.7 (13)
SE	0.7 (13)	0.5 (10)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.2 (23)
SSE	0.3 (5)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (6)
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)
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	1.8 (36)	0.9 (18)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	2.7 (54)

FOR STABILITY CLASS - G

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 81

NUMBER OF MISSING WIND OBSERVATIONS: 27

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITF: NINE MILE LO-CUP (9)

DATA FOR OCT 1 1981 THROUGH DEC 31 1981

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	0.4 (7)	2.5 (49)	1.3 (25)	0.4 (7)	0.0 (0)	0.0 (0)	4.4 (88)
NNE	0.6 (11)	2.6 (52)	0.5 (9)	0.0 (0)	0.0 (0)	0.0 (0)	3.6 (72)
NE	0.6 (11)	3.1 (61)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	3.8 (76)
ENE	1.1 (22)	0.4 (7)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.5 (29)
E	2.7 (54)	2.1 (41)	0.4 (8)	0.0 (0)	0.0 (0)	0.0 (0)	5.2 (103)
ESE	1.9 (38)	4.4 (88)	2.7 (53)	0.1 (2)	0.0 (0)	0.0 (0)	9.1 (181)
SE	2.5 (50)	5.0 (100)	3.4 (68)	0.5 (9)	0.0 (0)	0.0 (0)	11.4 (227)
SSE	1.5 (30)	3.7 (73)	1.7 (34)	0.0 (0)	0.0 (0)	0.0 (0)	6.9 (137)
S	1.2 (23)	5.0 (99)	1.8 (36)	0.2 (3)	0.0 (0)	0.0 (0)	8.1 (161)
SSW	0.5 (9)	2.7 (53)	0.5 (9)	0.0 (0)	0.0 (0)	0.0 (0)	3.6 (71)
SW	0.2 (3)	0.4 (8)	1.1 (2)	0.6 (11)	0.1 (1)	0.0 (0)	2.2 (44)
WSW	0.3 (5)	0.4 (7)	0.9 (18)	0.9 (18)	1.0 (19)	1.5 (29)	4.8 (96)
W	0.4 (7)	0.5 (10)	0.9 (17)	1.5 (30)	0.9 (18)	1.5 (29)	5.6 (111)
WNW	0.5 (9)	0.7 (14)	1.4 (27)	2.5 (50)	3.3 (66)	3.0 (59)	11.3 (225)
NW	0.2 (3)	1.1 (22)	3.5 (69)	4.1 (81)	1.9 (38)	0.6 (11)	11.3 (224)
NNW	0.2 (4)	1.6 (32)	1.9 (38)	2.9 (58)	0.3 (6)	0.0 (0)	7.0 (138)
TOTAL	14.4 (286)	36.1 (716)	22.0 (436)	12.6 (269)	7.5 (148)	6.5 (128)	100.0 (1983)

FOR STABILITY CLASS - ALL

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2081

NUMBER OF MISSING WIND OBSERVATIONS: 98

NUMBER OF CALM HOURS: 1

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LO-CUP (9)

DATA FOR OCT 1 1981 THROUGH DEC 31 1981

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	>24	
N	0.4 (7)	2.5 (49)	1.3 (25)	0.4 (7)	0.0 (0)	0.0 (0)	4.4 (88)
NNE	0.6 (11)	2.6 (52)	0.5 (9)	0.0 (0)	0.0 (0)	0.0 (0)	3.6 (72)
NE	0.6 (11)	3.1 (61)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	3.8 (76)
ENE	1.1 (22)	0.4 (7)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.5 (29)
E	2.7 (54)	2.1 (41)	0.4 (8)	0.0 (0)	0.0 (0)	0.0 (0)	5.2 (103)
ESE	1.9 (38)	4.4 (88)	2.7 (53)	0.1 (2)	0.0 (0)	0.0 (0)	9.1 (181)
SE	2.5 (50)	5.0 (100)	3.4 (68)	0.5 (9)	0.0 (0)	0.0 (0)	11.4 (227)
SSE	1.5 (30)	3.7 (73)	1.7 (34)	0.0 (0)	0.0 (0)	0.0 (0)	6.9 (137)
S	1.2 (23)	5.0 (99)	1.8 (36)	0.2 (3)	0.0 (0)	0.0 (0)	8.1 (161)
SSW	0.5 (9)	2.7 (53)	0.5 (9)	0.0 (0)	0.0 (0)	0.0 (0)	3.6 (71)
SW	0.2 (4)	0.4 (8)	1.1 (21)	0.6 (11)	0.1 (1)	0.0 (0)	2.3 (45)
WSW	0.3 (5)	0.4 (7)	0.9 (18)	0.9 (18)	1.0 (19)	1.5 (29)	4.8 (96)
W	0.4 (7)	0.5 (10)	0.9 (17)	1.5 (30)	0.9 (18)	1.5 (29)	5.6 (111)
WNW	0.5 (9)	0.7 (14)	1.4 (27)	2.5 (50)	3.4 (68)	3.0 (59)	11.4 (227)
NW	0.2 (3)	1.1 (22)	3.5 (69)	4.1 (81)	1.9 (38)	0.6 (11)	11.3 (224)
NNW	0.2 (4)	1.6 (32)	1.9 (38)	2.9 (58)	0.3 (6)	0.0 (0)	6.9 (138)
TOTAL	14.5 (287)	36.1 (716)	22.0 (436)	13.5 (269)	7.6 (150)	6.4 (128)	100.0 (1986)

FOR ALL WIND CATEGORIES

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2208

NUMBER OF MISSING WIND OBSERVATIONS: 222

NUMBER OF CALM HOURS: 1