PILGRIM NUCLEAR POWER STATION

Facility Operating License DPR-35

Radiological Effluent and Waste Disposal Report

January 1 through December 31, 2005

Entergy

3.0 METEOROLOGICAL DATA

Meteorological data are summarized for the reporting period in Appendix A, in the standard joint frequency distribution format as given in NRC Regulatory Guide 1.21.

The predominant meteorological conditions observed during the annual reporting period can be summarized with their corresponding frequencies as follows:

- Stability Class: Class D, 37%
- 33-ft Wind Direction (from): South-southwest, 14%
- 33-ft Wind Speed: 3.5-7.5 mph, 54%
- 220-ft Wind Direction (from): South-southwest, 12%
- 220-ft Wind Speed: 12.5-18.5 mph, 35%

There were a number of instances when data collection from the 220-ft meteorological tower was not continuous. During the course of 2005, numerous problems were encountered with meteorological sensors and translator card electronics. Data recovery for the entire annual period was about 67% for the 33-ft level, and 68% for the 220-ft level of the tower. These data recovery values are well below the NRC's recommended annual recovery goal of 90%. Steps have been taken to perform backups of the database computer, as well as performing qualitative data screening on a weekly basis to identify malfunctioning sensors and facilitate more timely repairs. A detailed engineering design plan is being implemented to upgrade meteorological instrumentation to increase reliability and data recovery.

APPENDIX A

Meteorological Joint Frequency Distributions

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Table A-1
Joint Frequency Distribution of Wind Directions and Speeds
For the 33-ft level of the 220-ft Tower

Jan-Mar 2005

Class A Freq: 0.074

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	1	0	0	0	3	0	0	1	0	0	0	0	0	0	0	0	5
3.5-7.5	11	9	5	1	0	0	3	1	0	1	1	1	2	5	13	14	67
7.5-12.5	6	4	1	0	8	1	0	0	2	0	0	2	4	5	10	4	47
12.5-18.5	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	5
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	21	13	6	1	11	1	3	2	2	1	1	3	7	10	23	19	124

Class B Freq: 0.045

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	1	0	0	0	2	0	0	0	0	0	0	0	1	1	0	0	5
3.5-7.5	4	8	0	0	1	1	0	0	0	0	0	3	2	4	5	7	35
7.5-12.5	3	2	0	2	14	1	0	0	2	0	0	1	1	6	1	1	34
12.5-18.5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8	10	0	2	18	2	0	0	2	0	0	4	4	11	6	8	75

Class C Freq: 0.042

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	0	0	0	0	1	0	0	0	0	0	0	2	0	1	1	5
3.5-7.5	6	6	3	0	0	1	0	0	2	0	1	1	2	8	1	2	33
7.5-12.5	3	1	0	1	4	1	1	0	3	0	0	1	7	2	4	1	29
12.5-18.5	0	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0	4
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	9	7	3	1	5	3	1	0	6	0	1	2	13	10	6	4	71

Class D Freq: 0.383

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	2	3	1	1	1	2	2	4	4	10	6	5	3	7	2	6	59
3.5-7.5	13	15	7	6	15	16	13	8	10	11	5	46	66	25	23	9	288
7.5-12.5	3	15	8	4	11	9	8	1	17	11	13	16	68	48	27	8	267
12.5-18.5	0	1	3	3	2	0	0	0	7	3	0	0	6	2	0	0	27
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	18	34	19	14	29	27	23	13	38	35	24	67	143	82	52	23	641

Table A-1 (continued)

Jan-Mar 2005

Class E Freq: 0.377

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	4	6	2	5	1	4	4	11	6	7	10	15	7	7	9	4	102
3.5-7.5	7	22	10	6	6	5	4	13	8	15	52	126	73	32	18	12	409
7.5-12.5	0	13	1	0	0	0	1	0	15	26	1	7	28	21	6	0	119
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	11	41	13	11	7	9	9	24	29	48	63	148	108	61	33	16	631

Class F Freq: 0.071

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	1	0	1	0	0	1	1	1	1	2	6	4	2	0	1	21
3.5-7.5	0	0	0	2	0	0	1	0	1	14	33	17	5	4	2	0	79
7.5-12.5	0	0	0	0	0	0	0	0	0	5	13	0	0	0	0	0	18
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	1	0	3	0	0	2	1	2	20	48	23	9	6	2	1	118

Class G Freq: 0.008

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.5-7.5	0	0	0	0	0	0	0	0	0	1	4	2	0	0	0	0	7
7.5-12.5	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	1	10	2	0	0	0	0	13

Class All Freq: 1.000

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	8	10	3	7	7	7	7	17	11	18	18	26	17	17	12	12	197
3.5-7.5	41	60	25	15	22	23	21	22	21	42	96	196	150	78	62	44	918
7.5-12.5	15	35	10	7	37	12	10	1	39	42	33	27	108	82	48	14	520
12.5-18.5	3	1	3	3	4	0	0	0	8	3	0	0	9	3	0	1	38
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	67	106	41	32	70	42	38	40	79	105	147	249	284	180	122	71	1673

Table A-1 (continued)

Apr-Jun 2005

Class A Freq: 0.220

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	4	4	1	2	1	1	1	0	0	0	1	0	0	0	1	2	18
3.5-7.5	14	9	5	4	2	2	6	3	8	16	3	1	2	3	6	23	107
7.5-12.5	13	11	2	0	0	1	5	3	20	38	12	0	0	0	0	3	108
12.5-18.5	9	3	1	0	0	0	0	0	0	0	0	0	0	0	0	1	14
18.5-24	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	42	28	9	6	3	4	12	6	28	54	16	1	2	3	7	29	250

Class B Freq: 0.033

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	2	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	5
3.5-7.5	1	1	4	0	1	1	0	0	0	1	0	0	0	1	0	6	16
7.5-12.5	0	1	3	2	0	0	1	0	7	1	0	0	0	0	0	1	16
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	2	7	2	1	1	1	0	7	3	1	0	1	1	0	8	38

Class C Freq: 0.051

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	1	1	0	0	0	0	0	0	1	1	0	1	0	0	0	3	8
3.5-7.5	5	0	2	1	0	0	1	1	0	3	0	0	0	1	1	0	15
7.5-12.5	0	1	0	1	0	0	1	0	8	13	2	1	0	1	1	1	30
12.5-18.5	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	5
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8	2	2	2	0	0	2	1	12	17	2	2	0	2	2	4	58

Class D Freq: 0.299

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	6	2	3	1	4	4	9	3	9	4	3	12	3	5	4	4	76
3.5-7.5	3	5	7	16	9	8	11	8	15	24	15	12	2	4	4	7	150
7.5-12.5	0	1	10	3	0	1	8	3	10	49	16	4	0	1	3	0	109
12.5-18.5	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	5
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	10	8	20	20	13	13	28	14	35	78	35	28	5	10	11	12	340

Table A-1 (continued)

Apr-Jun 2005

Class E Freq: 0.303

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	6	1	5	4	2	2	9	9	11	10	5	7	5	1	1	3	81
3.5-7.5	5	6	5	22	16	0	5	6	10	22	26	22	16	4	3	3	171
7.5-12.5	1	1	0	0	0	0	0	0	0	60	31	0	0	0	0	0	93
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	12	8	10	26	18	2	14	15	21	92	62	29	21	5	4	6	345

Class F Freq: 0.071

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
0.95-3.5	0	0	1	0	0	1	1	1	0	0	2	6	4	1	0	0	17
3.5-7.5	0	1	0	4	0	0	0	0	0	8	12	7	3	0	2	0	37
7.5-12.5	0	0	0	0	0	0	0	0	0	11	13	1	0	0	0	0	25
12.5-18.5	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	1	1	5	0	1	1	1	0	19	28	14	7	1	2	0	81

Class G Freq: 0.023

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	3
3.5-7.5	0	0	0	0	0	0	0	0	0	2	6	1	1	0	0	0	10
7.5-12.5	0	0	0	0	0	0	0	0	0	4	9	0	0	0	0	0	13
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	6	15	2	3	0	0	0	26

Class All Freq: 1.000

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
0.95-3.5	19	8	10	7	7	8	20	13	21	16	12	27	15	7	6	12	208
3.5-7.5	28	22	23	47	28	11	23	18	33	76	62	43	24	13	16	39	506
7.5-12.5	14	15	15	6	0	2	15	6	45	176	83	6	0	2	4	5	394
12.5-18.5	12	3	1	0	0	0	0	0	4	1	2	0	0	0	0	3	26
18.5-24	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	75	49	49	61	35	21	58	37	103	269	159	76	39	22	26	59	1138

Table A-1 (continued)

Jul-Sep 2005

Class A Freq: 0.187

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	4	5	3	7	7	2	2	2	0	0	1	1	1	2	5	2	44
3.5-7.5	1	16	1	9	11	5	3	4	19	14	3	7	1	0	1	1	96
7.5-12.5	0	0	0	0	0	0	0	0	6	13	2	0	0	0	0	0	21
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	5	21	4	16	18	7	5	6	25	27	6	8	2	2	6	3	161

Class B Freq: 0.033

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	1	0	0	0	0	4	2	3	0	0	0	0	0	0	0	0	10
3.5-7.5	0	0	1	0	0	0	0	0	0	4	1	0	1	1	1	0	9
7.5-12.5	0	0	0	0	0	0	0	0	2	7	0	0	0	0	0	0	9
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	0	1	0	0	4	2	3	2	11	1	0	1	1	1	0	28

Class C Freq: 0.045

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	0	0	0	0	0	0	3	3	0	0	0	0	0	0	1	7
3.5-7.5	0	0	0	0	1	2	0	1	4	14	2	0	0	0	1	0	25
7.5-12.5	0	0	0	0	0	0	0	0	1	6	0	0	0	0	0	0	7
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	1	2	0	4	8	20	2	0	0	0	1	1	39

Class D Freq: 0.227

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	2	4	1	2	1	6	11	5	5	4	2	3	1	2	2	3	54
3.5-7.5	0	0	3	2	1	7	1	4	11	43	15	7	3	2	2	1	102
7.5-12.5	0	1	0	0	0	0	0	0	5	25	6	0	0	0	0	0	37
12.5-18.5	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	5	4	4	2	13	12	9	22	73	23	10	4	4	4	4	195

Table A-1 (continued)

Jul-Sep 2005

Class E Freq: 0.276

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
0.95-3.5	10	2	1	1	1	1	12	6	14	5	4	15	5	8	5	1	91
3.5-7.5	5	2	0	0	0	2	0	5	11	29	35	35	6	1	2	3	136
7.5-12.5	0	0	0	0	0	0	0	0	0	8	1	0	0	0	0	0	9
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	15	4	1	1	1	3	12	11	25	42	40	50	12	9	7	4	237

Class F Freq: 0.194

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	3	1	1	1	2	3	7	13	12	9	3	17	21	6	6	2	107
3.5-7.5	1	0	0	0	0	0	0	0	4	10	25	10	0	0	1	2	53
7.5-12.5	0	0	0	0	0	0	0	0	0	4	3	0	0	0	0	0	7
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	1	1	1	2	3	7	13	16	23	31	27	21	6	7	4	167

Class G Freq: 0.037

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
0.95-3.5	0	0	0	0	0	0	0	1	0	2	0	11	8	1	0	0	23
3.5-7.5	0	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	5
7.5-12.5	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	1	1	4	6	11	8	1	0	0	32

Class All Freq: 1.000

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2
0.95-3.5	20	12	6	11	11	16	34	33	34	20	10	47	36	19	18	9	336
3.5-7.5	7	18	5	11	13	16	4	14	49	116	84	59	11	4	8	7	426
7.5-12.5	0	1	0	0	0	0	0	0	14	63	15	0	0	0	0	0	93
12.5-18.5	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	27	31	11	22	24	32	38	47	99	200	109	106	48	23	26	16	859

Table A-1 (continued)

Oct-Dec 2005

Class A Freq: 0.036

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	2
3.5-7.5	2	1	3	1	2	2	1	0	0	1	0	2	9	24	20	3	71
7.5-12.5	0	0	0	0	0	0	0	0	0	1	0	0	2	1	1	1	6
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	1	4	1	2	2	1	0	0	2	0	2	11	25	22	4	79

Class B Freq: 0.036

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	1	0	1	0	0	0	0	0	0	0	0	0	1	2	0	5
3.5-7.5	1	0	2	1	0	1	2	0	0	4	5	7	11	7	3	1	45
7.5-12.5	0	0	0	0	0	0	0	0	1	5	0	0	10	0	2	12	30
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	1	2	2	0	1	2	0	1	9	5	7	21	8	7	13	80

Class C Freq: 0.051

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	1	0	0	2	1	0	0	3	0	1	1	0	1	2	0	2	14
3.5-7.5	7	1	2	2	0	0	1	0	0	13	7	12	17	5	3	1	71
7.5-12.5	0	0	0	0	0	0	0	4	0	6	0	2	7	3	3	0	25
12.5-18.5	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8	1	2	4	1	0	1	7	0	21	9	14	25	10	6	3	112

Class D Freq: 0.436

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
0.95-3.5	3	6	7	6	14	4	1	7	4	9	14	17	8	11	7	10	128
3.5-7.5	18	22	24	13	21	17	15	12	15	74	40	80	96	64	40	17	568
7.5-12.5	2	9	12	9	6	11	6	15	9	47	8	9	56	30	19	2	250
12.5-18.5	0	2	6	0	0	0	0	0	1	0	3	0	0	2	0	0	14
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	23	39	49	28	41	32	22	34	29	131	66	106	160	107	66	29	962

Table A-1 (continued)

Oct-Dec 2005

Class E Freq: 0.333

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	1	1	0	1	0	0	1	0	0	1	5
0.95-3.5	27	19	8	5	6	7	9	21	19	18	23	28	21	9	5	3	228
3.5-7.5	0	3	15	15	17	4	10	29	13	43	54	123	88	21	8	1	444
7.5-12.5	0	0	4	3	4	4	1	6	5	8	2	10	2	4	1	0	54
12.5-18.5	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	4
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	27	22	27	23	27	16	24	57	37	70	79	161	112	34	14	5	735

Class F Freq: 0.092

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	1	0	0	0	0	0	0	0	1	0	0	1	2	0	0	5
0.95-3.5	0	1	1	1	5	2	3	8	4	8	12	24	7	5	3	0	84
3.5-7.5	0	0	0	0	1	1	0	5	5	12	49	33	1	0	0	0	107
7.5-12.5	0	0	0	0	0	0	0	0	0	0	6	1	0	0	0	0	7
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	2	1	1	6	3	3	13	9	21	67	58	9	7	3	0	203

Class G Freq: 0.016

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
0.95-3.5	0	0	0	0	1	1	2	2	1	3	9	6	4	1	0	0	30
3.5-7.5	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
7.5-12.5	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	1	1	2	2	1	3	12	7	4	2	0	0	35

Class All Freq: 1.000

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	1	0	0	0	0	1	1	0	3	1	0	2	3	0	1	13
0.95-3.5	31	27	17	15	27	14	15	41	28	39	59	75	41	29	18	15	491
3.5-7.5	28	27	46	32	41	25	29	46	33	147	158	257	222	121	74	23	1309
7.5-12.5	2	9	16	12	10	15	7	25	15	67	16	23	77	38	26	15	373
12.5-18.5	0	2	6	0	0	1	3	0	1	1	4	0	0	2	0	0	20
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	61	66	85	59	78	55	55	113	77	257	238	355	342	193	118	54	2206

Table A-1 (continued)

Jan-Dec 2005

Class A Freq: 0.104

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	9	9	5	9	11	3	3	3	0	0	2	1	1	2	7	4	69
3.5-7.5	28	35	14	15	15	9	13	8	27	32	7	11	14	32	40	41	341
7.5-12.5	19	15	3	0	8	2	5	3	28	52	14	2	6	6	11	8	182
12.5-18.5	12	3	1	0	0	0	0	0	0	0	0	0	1	0	0	2	19
18.5-24	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	70	63	23	24	34	14	21	14	55	84	23	14	22	40	58	55	614

Class B Freq: 0.038

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	4	1	0	1	2	4	2	3	0	1	1	0	2	2	2	0	25
3.5-7.5	6	9	7	1	2	3	2	0	0	9	6	10	14	13	9	14	105
7.5-12.5	3	3	3	4	14	1	1	0	12	13	0	1	11	6	3	14	89
12.5-18.5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	13	13	10	6	19	8	5	3	12	23	7	11	27	21	14	29	221

Class C Freq: 0.048

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	2	1	0	2	1	1	0	6	4	2	1	1	3	2	1	7	34
3.5-7.5	18	7	7	3	1	3	2	2	6	30	10	13	19	14	6	3	144
7.5-12.5	3	2	0	2	4	1	2	4	12	25	2	4	14	6	8	2	91
12.5-18.5	2	0	0	0	1	0	0	0	4	1	1	0	2	0	0	0	11
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	25	10	7	7	7	5	4	12	26	58	14	18	38	22	15	12	280

Class D Freq: 0.364

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
0.95-3.5	13	15	12	10	20	16	23	19	22	27	25	37	15	25	15	23	317
3.5-7.5	34	42	41	37	46	48	40	32	51	152	75	145	167	95	69	34	1108
7.5-12.5	5	26	30	16	17	21	22	19	41	132	43	29	124	79	49	10	663
12.5-18.5	1	3	9	3	2	0	0	0	10	5	4	0	6	4	0	1	48
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	53	86	92	66	85	85	85	70	124	317	148	211	312	203	133	68	2138

Table A-1 (continued)

Jan-Dec 2005

Class E Freq: 0.332

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	1	1	0	1	0	0	2	0	0	1	6
0.95-3.5	47	28	16	15	10	14	34	47	50	40	42	65	38	25	20	11	502
3.5-7.5	17	33	30	43	39	11	19	53	42	109	167	306	183	58	31	19	1160
7.5-12.5	1	14	5	3	4	4	2	6	20	102	35	17	30	25	7	0	275
12.5-18.5	0	0	0	0	0	1	3	0	0	0	0	0	0	1	0	0	5
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	65	75	51	61	53	30	59	107	112	252	244	388	253	109	58	31	1948

Class F Freq: 0.097

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	1	0	1	0	0	0	0	0	1	0	0	1	2	0	0	6
0.95-3.5	3	3	3	3	7	6	12	23	17	18	19	53	36	14	9	3	229
3.5-7.5	1	1	0	6	1	1	1	5	10	44	119	67	9	4	5	2	276
7.5-12.5	0	0	0	0	0	0	0	0	0	20	35	2	0	0	0	0	57
12.5-18.5	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	5	3	10	8	7	13	28	27	83	174	122	46	20	14	5	569

Class G Freq: 0.018

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	2
0.95-3.5	0	0	0	0	1	1	2	3	1	5	9	18	14	2	0	0	56
3.5-7.5	0	0	0	0	0	0	0	0	0	5	16	3	1	0	0	0	25
7.5-12.5	0	0	0	0	0	0	0	0	0	4	18	1	0	0	0	0	23
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	1	1	2	3	2	14	43	22	15	3	0	0	106

Class All Freq: 1.000

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	1	0	1	0	0	1	1	1	3	1	0	3	3	0	1	16
0.95-3.5	78	57	36	40	52	45	76	104	94	93	99	175	109	72	54	48	1232
3.5-7.5	104	127	99	105	104	75	77	100	136	381	400	555	407	216	160	113	3159
7.5-12.5	31	60	41	25	47	29	32	32	113	348	147	56	185	122	78	34	1380
12.5-18.5	15	6	10	3	4	1	3	0	14	6	6	0	9	5	0	4	86
18.5-24	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	230	252	186	174	207	150	189	237	358	831	653	786	713	418	292	200	5876

Table A-2
Joint Frequency Distribution of Wind Directions and Speeds
For the 220-ft level of the 220-ft Tower

Jan-Mar 2005

Class A Freq: 0.085

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.5-7.5	1	1	2	0	0	1	1	0	0	0	0	0	0	0	0	1	7
7.5-12.5	4	5	7	1	2	2	0	0	0	0	0	0	0	1	4	2	28
12.5-18.5	4	2	1	3	0	1	6	1	0	2	1	1	0	4	7	12	45
18.5-24	0	0	0	0	3	3	0	0	1	0	0	1	0	2	13	9	32
>24	11	3	0	0	5	0	0	3	0	0	0	0	1	5	3	11	42
TOTAL	20	11	10	4	10	7	7	4	1	2	1	2	1	12	27	35	154

Class B Freq: 0.044

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.5-7.5	2	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	6
7.5-12.5	1	2	2	0	0	1	0	0	0	0	0	0	0	3	3	3	15
12.5-18.5	0	5	1	0	1	1	0	0	0	0	0	2	1	2	4	3	20
18.5-24	0	1	0	2	5	2	0	0	0	2	0	0	1	2	3	3	21
>24	2	0	0	0	8	1	0	0	0	0	0	0	0	2	1	3	17
TOTAL	5	9	4	2	16	5	0	0	0	2	0	2	2	9	11	12	79

Class C Freq: 0.040

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.5-7.5	0	2	1	0	1	0	1	0	0	0	0	0	0	2	1	0	8
7.5-12.5	0	1	4	0	0	2	0	0	0	0	0	0	0	1	2	2	12
12.5-18.5	1	2	0	1	0	0	1	0	1	4	1	2	1	5	1	3	23
18.5-24	3	1	0	0	3	1	0	0	0	0	0	0	0	3	3	1	15
>24	0	0	0	0	2	0	1	0	0	1	0	0	3	3	1	4	15
TOTAL	4	6	5	1	6	3	3	0	1	5	1	2	4	14	8	10	73

Class D Freq: 0.374

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	2
3.5-7.5	8	6	6	1	2	5	0	5	0	1	2	1	5	3	1	4	50
7.5-12.5	7	6	7	6	5	9	5	11	5	6	4	10	13	9	7	5	115
12.5-18.5	8	9	7	8	10	10	17	3	9	13	19	17	40	33	13	7	223
18.5-24	1	8	3	1	7	3	5	0	3	7	5	1	38	46	41	11	180
>24	0	4	1	6	5	3	1	2	0	12	0	0	15	36	16	7	108
TOTAL	24	33	24	22	29	31	28	21	17	39	30	29	111	127	79	34	678

Table A-2 (continued)

Jan-Mar 2005

Class E Freq: 0.376

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	1	2	1	1	2	0	0	1	0	0	0	0	1	4	1	0	14
3.5-7.5	2	5	7	10	6	5	4	2	6	3	3	3	4	7	6	9	82
7.5-12.5	4	0	11	3	3	7	14	8	7	6	7	13	21	19	8	5	136
12.5-18.5	3	15	4	0	1	3	5	4	7	4	18	47	70	44	17	13	255
18.5-24	2	6	3	0	0	0	1	0	2	17	15	9	37	27	15	16	150
>24	1	7	0	0	0	0	0	0	1	5	0	0	0	12	12	7	45
TOTAL	13	35	26	14	12	15	24	15	23	35	43	72	133	113	59	50	682

Class F Freq: 0.072

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	4
3.5-7.5	1	2	2	2	0	0	1	0	2	1	4	1	2	3	1	1	23
7.5-12.5	1	0	0	0	0	1	0	0	1	4	4	6	4	10	1	5	37
12.5-18.5	0	1	0	0	0	0	0	0	1	2	6	17	5	6	5	3	46
18.5-24	0	0	0	0	0	0	0	0	0	2	11	8	0	0	0	0	21
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	4	2	3	0	1	1	1	4	9	25	32	11	19	7	9	131

Class G Freq: 0.008

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.5-7.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
7.5-12.5	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2
12.5-18.5	0	0	0	0	0	0	0	0	1	0	1	0	2	0	0	0	4
18.5-24	0	0	0	0	0	0	0	0	0	0	3	4	0	0	0	0	7
>24	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
TOTAL	0	0	0	0	0	0	0	0	2	0	5	4	3	0	1	0	15

Class All Freq: 1.000

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	2	3	1	2	2	1	0	2	0	0	0	0	1	4	2	0	20
3.5-7.5	14	17	19	13	11	11	7	7	8	5	9	5	11	15	10	15	177
7.5-12.5	17	14	31	10	10	22	19	19	14	16	15	29	39	43	25	22	345
12.5-18.5	16	34	13	12	12	15	29	8	19	25	46	86	119	94	47	41	616
18.5-24	6	16	6	3	18	9	6	0	6	28	34	23	76	80	75	40	426
>24	14	14	1	6	20	4	2	5	1	18	1	0	19	58	33	32	228
TOTAL	69	98	71	46	73	62	63	41	48	92	105	143	265	294	192	150	1812

Table A-2 (continued)

Apr-Jun 2005

Class A Freq: 0.195

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	2	8	0	0	0	0	0	0	0	0	0	0	0	0	3	7	20
0.95-3.5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	3
3.5-7.5	5	5	7	0	2	0	1	0	0	0	0	0	0	1	1	1	23
7.5-12.5	2	2	4	1	1	1	2	2	0	1	4	1	1	0	1	1	24
12.5-18.5	13	2	1	0	0	0	7	2	6	8	14	11	7	3	0	9	83
18.5-24	7	3	1	0	3	0	9	5	4	10	4	3	8	0	0	3	60
>24	18	6	0	1	1	0	0	0	0	0	0	0	0	0	0	5	31
TOTAL	47	26	13	2	7	2	19	9	10	19	22	15	16	4	6	27	244

Class B Freq: 0.034

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4
0.95-3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.5-7.5	3	0	3	0	0	0	0	0	0	0	1	1	1	0	0	0	9
7.5-12.5	1	1	2	0	0	0	0	1	0	0	0	0	0	0	0	1	6
12.5-18.5	0	1	2	4	0	0	3	0	4	3	1	0	1	0	0	0	19
18.5-24	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	3
>24	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOTAL	5	2	7	4	0	0	3	1	4	4	2	1	2	0	2	5	42

Class C Freq: 0.049

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	8
0.95-3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.5-7.5	1	1	1	0	0	0	0	0	0	1	0	1	0	0	0	2	7
7.5-12.5	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	4
12.5-18.5	0	0	0	2	0	0	1	0	1	12	2	1	2	0	0	0	21
18.5-24	0	1	0	0	0	0	1	0	1	3	5	0	2	1	1	0	15
>24	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	6
TOTAL	8	3	2	3	0	0	2	0	5	17	7	2	4	1	3	4	61

Class D Freq: 0.322

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	5	1	0	1	1	3	1	1	1	5	2	1	2	3	8	1	36
0.95-3.5	1	2	1	4	2	0	0	0	0	2	0	1	0	1	0	0	14
3.5-7.5	2	6	4	2	3	3	3	1	2	3	1	0	1	1	4	1	37
7.5-12.5	3	2	3	1	7	4	7	11	6	23	9	6	4	1	4	1	92
12.5-18.5	1	4	10	13	3	2	12	5	8	24	11	8	18	3	3	4	129
18.5-24	1	0	3	1	0	0	3	3	2	14	14	5	15	1	0	3	65
>24	6	2	0	0	0	0	2	1	1	4	6	0	5	0	0	3	30
TOTAL	19	17	21	22	16	12	28	22	20	75	43	21	45	10	19	13	403

Table A-2 (continued)

Apr-Jun 2005

Class E Freq: 0.306

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	8	10	3	0	2	0	0	0	0	0	3	1	0	0	2	1	30
0.95-3.5	0	2	2	2	1	1	0	0	1	1	0	0	0	1	0	1	12
3.5-7.5	1	3	3	3	11	6	4	3	5	4	1	3	3	0	2	1	53
7.5-12.5	1	1	0	6	10	15	10	9	9	7	8	7	14	9	8	2	116
12.5-18.5	2	2	0	0	3	0	3	5	3	4	11	13	19	6	3	0	74
18.5-24	1	1	0	0	0	0	2	1	0	10	35	8	8	1	0	4	71
>24	0	1	1	0	0	0	0	0	0	5	10	3	6	0	0	1	27
TOTAL	13	20	9	11	27	22	19	18	18	31	68	35	50	17	15	10	383

Class F Freq: 0.074

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	1	0	0	1	2	1	0	0	0	0	5
0.95-3.5	0	1	2	1	0	0	0	0	0	1	1	0	0	0	0	0	6
3.5-7.5	1	0	0	0	1	1	0	0	3	0	0	0	0	2	1	2	11
7.5-12.5	0	0	0	0	1	3	0	0	1	2	1	2	2	2	3	3	20
12.5-18.5	1	1	0	0	0	0	1	0	0	0	6	6	5	2	1	0	23
18.5-24	0	0	0	0	0	0	0	0	0	1	3	3	3	4	3	4	21
>24	0	0	0	0	0	0	0	0	0	0	4	1	1	0	0	0	6
TOTAL	2	2	2	1	2	4	2	0	4	5	17	13	11	10	8	9	92

Class G Freq: 0.021

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.5-7.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3
7.5-12.5	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	1	5
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	2	2	4	1	0	9
18.5-24	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	0	7
>24	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
TOTAL	0	0	0	0	0	0	0	0	0	0	4	6	3	6	5	2	26

Class All Freq: 1.000

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	19	19	3	1	3	3	2	1	1	6	7	3	2	3	16	14	103
0.95-3.5	1	5	5	7	3	2	0	0	1	4	1	1	0	2	1	2	35
3.5-7.5	13	15	18	5	17	10	8	4	10	8	3	5	5	4	10	8	143
7.5-12.5	7	7	10	9	19	23	19	23	16	34	23	19	21	12	16	9	267
12.5-18.5	17	10	13	19	6	2	27	12	22	51	45	41	54	18	8	13	358
18.5-24	9	5	4	1	3	0	15	9	7	39	62	20	37	9	7	15	242
>24	28	9	1	1	1	0	2	1	4	9	22	4	12	0	0	9	103
TOTAL	94	70	54	43	52	40	73	50	61	151	163	93	131	48	58	70	1251

Table A-2 (continued)

Jul-Sep 2005

Class A Freq: 0.187

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	1	2	0	0	1	1	0	1	0	0	0	0	0	0	0	0	6
3.5-7.5	2	1	4	6	6	3	3	4	1	1	0	0	0	1	1	0	33
7.5-12.5	5	1	0	1	5	7	8	4	8	6	5	1	4	0	1	2	58
12.5-18.5	4	6	0	0	0	3	0	1	5	20	7	1	1	1	0	1	50
18.5-24	7	2	0	0	0	0	0	0	0	3	0	0	1	0	0	1	14
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	19	12	4	7	12	14	11	10	14	30	12	2	6	2	2	4	161

Class B Freq: 0.033

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2
3.5-7.5	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	3
7.5-12.5	1	0	0	0	0	1	1	0	1	2	0	0	0	1	0	0	7
12.5-18.5	1	0	1	0	0	0	0	0	0	3	2	0	0	1	0	1	9
18.5-24	0	0	0	0	0	0	0	0	0	5	2	0	0	0	0	0	7
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	0	1	0	0	2	3	1	1	11	4	0	0	2	0	1	28

Class C Freq: 0.045

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
3.5-7.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.5-12.5	0	0	0	0	2	4	0	1	2	0	0	0	0	0	0	0	9
12.5-18.5	0	0	0	0	0	1	0	2	1	10	6	0	0	0	0	1	21
18.5-24	0	0	0	0	0	0	0	0	0	6	2	0	0	0	0	0	8
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	2	5	0	3	3	16	8	0	0	0	0	2	39

Class D Freq: 0.227

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	2	0	0	0	1	0	0	1	1	0	0	0	0	0	0	5
3.5-7.5	0	1	2	2	2	1	0	2	1	3	0	0	0	0	0	0	14
7.5-12.5	2	0	1	0	2	4	10	10	4	6	1	1	3	3	0	2	49
12.5-18.5	1	3	0	0	0	4	0	4	2	25	19	5	4	3	1	2	73
18.5-24	1	2	0	0	0	0	0	0	5	19	19	0	0	0	0	2	48
>24	0	1	0	0	0	0	0	0	3	2	0	0	0	0	0	0	6
TOTAL	4	9	3	2	4	10	10	16	16	56	39	6	7	6	1	6	195

Table A-2 (continued)

Jul-Sep 2005

Class E Freq: 0.276

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	3
3.5-7.5	3	1	4	2	2	3	4	3	1	2	1	0	0	0	0	1	27
7.5-12.5	5	1	1	0	1	2	5	6	5	7	1	3	0	6	6	2	51
12.5-18.5	6	0	0	1	3	1	2	10	7	18	12	11	12	18	5	1	107
18.5-24	7	1	0	3	0	0	0	1	0	6	13	4	4	2	1	2	44
>24	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	5
TOTAL	22	4	5	7	6	6	11	21	13	33	27	18	16	26	14	8	237

Class F Freq: 0.194

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	2
3.5-7.5	1	0	0	1	0	2	2	3	2	2	1	1	1	1	2	2	21
7.5-12.5	5	2	1	0	1	1	14	7	3	6	2	4	0	7	9	7	69
12.5-18.5	2	0	0	1	0	1	1	11	2	4	10	5	12	4	4	3	60
18.5-24	3	0	0	1	0	0	0	2	0	2	3	1	1	0	0	2	15
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	11	2	1	4	1	4	18	23	7	14	16	11	14	12	15	14	167

Class G Freq: 0.037

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	0	2	0	0	1	1	0	0	0	0	0	0	0	0	0	4
3.5-7.5	2	1	0	0	0	0	2	1	2	0	0	0	0	0	0	2	10
7.5-12.5	0	0	0	0	0	0	0	1	2	2	0	1	0	0	3	0	9
12.5-18.5	0	0	0	0	0	0	0	0	0	0	1	5	0	0	0	3	9
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	1	2	0	0	1	3	2	4	2	1	6	0	0	3	5	32

Class All Freq: 1.000

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	1	5	2	2	1	3	3	2	1	2	0	0	0	0	0	1	23
3.5-7.5	8	4	10	11	10	10	12	14	7	8	2	1	1	2	3	5	108
7.5-12.5	18	4	3	1	11	19	38	29	25	29	9	10	7	17	19	13	252
12.5-18.5	14	9	1	2	3	10	3	28	17	80	57	27	29	27	10	12	329
18.5-24	18	5	0	4	0	0	0	3	5	41	39	5	6	2	1	7	136
>24	1	1	0	0	0	0	0	0	3	2	0	0	0	0	2	2	11
TOTAL	60	28	16	20	25	42	56	76	58	162	107	43	43	48	35	40	859

Table A-2 (continued)

Oct-Dec 2005

Class A Freq: 0.035

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.5-7.5	1	0	3	0	1	0	0	0	0	0	0	0	0	1	0	0	6
7.5-12.5	0	0	1	0	1	2	1	0	0	1	0	0	5	7	4	1	23
12.5-18.5	0	0	0	0	1	0	0	0	0	0	0	0	3	10	9	1	24
18.5-24	0	0	0	0	0	0	0	0	0	1	0	0	1	2	6	2	12
>24	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	4
TOTAL	1	0	4	0	3	2	1	0	0	2	0	0	10	22	20	4	69

Class B Freq: 0.030

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3.5-7.5	0	0	3	0	0	0	0	0	0	1	0	0	0	3	0	0	7
7.5-12.5	0	0	0	1	0	0	0	1	0	3	3	5	1	2	1	0	17
12.5-18.5	0	0	0	0	0	0	2	0	0	5	0	1	6	4	0	1	19
18.5-24	0	0	0	0	0	0	0	0	0	2	0	0	3	3	3	0	11
>24	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	0	5
TOTAL	0	1	3	1	0	0	2	1	0	11	3	6	13	13	5	1	60

Class C Freq: 0.053

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3.5-7.5	0	0	0	5	0	1	0	2	1	3	2	1	1	2	1	0	19
7.5-12.5	0	0	1	0	0	0	0	0	0	5	3	9	3	2	1	0	24
12.5-18.5	0	1	0	0	0	0	0	1	0	8	4	4	8	3	2	0	31
18.5-24	4	0	0	0	0	0	0	3	0	1	0	0	2	3	1	2	16
>24	2	0	0	0	0	0	0	1	0	0	3	0	3	3	3	0	15
TOTAL	7	1	1	5	0	1	0	7	1	17	12	14	17	13	8	2	106

Class D Freq: 0.448

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	2	1	6	1	1	0	1	0	1	1	1	1	2	0	1	0	19
3.5-7.5	1	0	7	3	4	7	2	4	0	4	10	6	5	1	5	2	61
7.5-12.5	1	4	7	6	11	6	1	5	6	24	15	23	23	10	6	11	159
12.5-18.5	10	9	20	2	7	7	8	7	11	52	40	32	41	41	27	14	328
18.5-24	12	11	0	4	6	6	4	23	4	24	9	5	39	25	22	9	203
>24	5	10	5	16	5	5	4	1	2	5	8	1	18	20	15	3	123
TOTAL	31	35	45	32	34	31	20	40	24	110	83	68	128	97	76	39	893

Table A-2 (continued)

Oct-Dec 2005

Class E Freq: 0.328

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
0.95-3.5	0	1	0	1	1	0	1	1	0	0	3	2	0	1	0	0	11
3.5-7.5	0	1	3	2	4	2	4	4	2	4	4	6	3	0	2	0	41
7.5-12.5	3	4	6	2	1	4	8	9	13	10	17	6	14	17	2	2	118
12.5-18.5	23	15	10	3	3	0	4	20	11	16	25	41	64	45	13	5	298
18.5-24	3	1	2	15	3	0	0	18	5	6	28	11	20	23	8	1	144
>24	0	0	0	19	5	4	4	0	1	1	2	0	0	1	5	0	42
TOTAL	29	23	21	42	17	10	21	52	32	37	79	66	101	87	30	8	655

Class F Freq: 0.088

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	0	0	1	1	1	0	1	1	0	0	1	1	2	0	0	9
3.5-7.5	0	0	0	1	0	1	2	2	5	5	5	2	3	1	2	0	29
7.5-12.5	2	0	0	0	0	0	0	3	4	9	6	6	3	9	5	1	48
12.5-18.5	0	0	0	0	0	0	0	6	4	0	5	12	10	6	1	2	46
18.5-24	0	0	0	0	0	0	0	6	0	3	13	15	4	2	0	0	43
>24	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
TOTAL	2	0	0	2	1	2	2	18	14	17	30	36	21	20	8	3	176

Class G Freq: 0.018

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	3
3.5-7.5	0	1	0	1	0	0	1	1	1	2	4	1	4	0	0	0	16
7.5-12.5	0	0	0	0	0	0	0	2	3	2	6	1	0	0	0	0	14
12.5-18.5	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2
18.5-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	1	0	1	0	0	1	3	4	4	10	2	6	2	0	1	35

Class All Freq: 1.000

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
0.95-3.5	3	3	6	3	3	1	2	2	2	1	4	4	4	4	1	1	44
3.5-7.5	2	2	16	12	9	11	9	13	9	19	25	16	16	8	10	2	179
7.5-12.5	6	8	15	9	13	12	10	20	26	54	50	50	49	47	19	15	403
12.5-18.5	33	25	30	5	11	7	14	34	26	81	74	90	133	110	52	23	748
18.5-24	19	12	2	19	9	6	4	50	9	37	50	31	69	58	40	14	429
>24	7	10	5	35	10	9	8	2	3	6	14	1	25	27	25	3	190
TOTAL	70	61	74	83	55	46	47	121	75	198	217	192	296	254	147	58	1994

Table A-2 (continued)

Jan-Dec 2005

Class A Freq: 0.106

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	2	8	0	0	0	0	0	0	0	0	0	0	0	0	3	7	20
0.95-3.5	1	2	0	0	1	2	0	1	0	0	0	0	0	0	1	1	9
3.5-7.5	9	7	16	6	9	4	5	4	1	1	0	0	0	3	2	2	69
7.5-12.5	11	8	12	3	9	12	11	6	8	8	9	2	10	8	10	6	133
12.5-18.5	21	10	2	3	1	4	13	4	11	30	22	13	11	18	16	23	202
18.5-24	14	5	1	0	6	3	9	5	5	14	4	4	10	4	19	15	118
>24	29	9	0	1	6	0	0	3	0	0	0	0	2	7	4	16	77
TOTAL	87	49	31	13	32	25	38	23	25	53	35	19	33	40	55	70	628

Class B Freq: 0.035

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4
0.95-3.5	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3
3.5-7.5	5	1	7	0	2	1	1	1	0	1	1	1	1	3	0	0	25
7.5-12.5	3	3	4	1	0	2	1	2	1	5	3	5	1	6	4	4	45
12.5-18.5	1	6	4	4	1	1	5	0	4	11	3	3	8	7	4	5	67
18.5-24	0	1	0	2	5	2	0	0	0	10	2	0	4	5	7	4	42
>24	3	0	0	0	8	1	0	0	0	0	0	0	3	3	2	3	23
TOTAL	12	12	15	7	16	7	8	3	5	28	9	9	17	24	18	19	209

Class C Freq: 0.047

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	8
0.95-3.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
3.5-7.5	1	3	2	5	1	1	1	2	1	4	2	2	1	4	2	2	34
7.5-12.5	0	2	6	1	2	6	0	1	2	6	3	9	3	3	3	2	49
12.5-18.5	1	3	0	3	0	1	2	3	3	34	13	7	11	8	3	4	96
18.5-24	7	2	0	0	3	1	1	3	1	10	7	0	4	7	5	3	54
>24	5	0	0	0	2	0	1	1	3	1	3	0	6	6	4	4	36
TOTAL	19	10	8	9	8	9	5	10	10	55	28	18	25	28	19	18	279

Class D Freq: 0.367

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	5	1	0	1	1	3	1	1	1	5	2	1	2	3	8	1	36
0.95-3.5	3	5	7	5	3	2	1	0	2	4	1	2	2	1	2	0	40
3.5-7.5	11	13	19	8	11	16	5	12	3	11	13	7	11	5	10	7	162
7.5-12.5	13	12	18	13	25	23	23	37	21	59	29	40	43	23	17	19	415
12.5-18.5	20	25	37	23	20	23	37	19	30	114	89	62	103	80	44	27	753
18.5-24	15	21	6	6	13	9	12	26	14	64	47	11	92	72	63	25	496
>24	11	17	6	22	10	8	7	4	6	23	14	1	38	56	31	13	267
TOTAL	78	94	93	78	83	84	86	99	77	280	195	124	291	240	175	92	2169

Table A-2 (continued)

Jan-Dec 2005

Class E Freq: 0.331

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	8	11	3	0	2	0	0	0	0	0	3	1	0	0	2	1	31
0.95-3.5	1	6	3	5	4	1	1	3	1	1	3	2	1	6	1	1	40
3.5-7.5	6	10	17	17	23	16	16	12	14	13	9	12	10	7	10	11	203
7.5-12.5	13	6	18	11	15	28	37	32	34	30	33	29	49	51	24	11	421
12.5-18.5	34	32	14	4	10	4	14	39	28	42	66	112	165	113	38	19	734
18.5-24	13	9	5	18	3	0	3	20	7	39	91	32	69	53	24	23	409
>24	2	8	1	19	5	4	4	0	2	11	12	3	6	13	19	10	119
TOTAL	77	82	61	74	62	53	75	106	86	136	217	191	300	243	118	76	1957

Class F Freq: 0.096

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	1	0	0	1	2	1	0	0	0	0	5
0.95-3.5	1	2	2	4	1	1	1	2	1	1	1	1	1	2	0	0	21
3.5-7.5	3	2	2	4	1	4	5	5	12	8	10	4	6	7	6	5	84
7.5-12.5	8	2	1	0	2	5	14	10	9	21	13	18	9	28	18	16	174
12.5-18.5	3	2	0	1	0	1	2	17	7	6	27	40	32	18	11	8	175
18.5-24	3	0	0	1	0	0	0	8	0	8	30	27	8	6	3	6	100
>24	0	0	0	0	0	0	0	0	0	0	5	1	1	0	0	0	7
TOTAL	18	8	5	10	4	11	23	42	29	45	88	92	57	61	38	35	566

Class G Freq: 0.018

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.95-3.5	0	0	2	0	0	1	1	0	0	0	0	0	1	1	0	1	7
3.5-7.5	2	2	0	1	0	0	3	2	3	2	4	1	4	0	3	3	30
7.5-12.5	0	0	0	0	0	0	0	3	6	4	7	5	1	0	3	1	30
12.5-18.5	0	0	0	0	0	0	0	0	1	0	2	7	5	5	1	3	24
18.5-24	0	0	0	0	0	0	0	0	0	0	4	5	1	2	2	0	14
>24	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
TOTAL	2	2	2	1	0	1	4	5	10	6	20	18	12	8	9	8	108

Class All Freq: 1.000

mph	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
Calm-0.95	19	20	3	1	3	3	2	1	1	6	7	3	2	3	16	14	104
0.95-3.5	7	16	14	14	9	7	5	6	4	7	5	5	5	10	4	4	122
3.5-7.5	37	38	63	41	47	42	36	38	34	40	39	27	33	29	33	30	607
7.5-12.5	48	33	59	29	53	76	86	91	81	133	97	108	116	119	79	59	1267
12.5-18.5	80	78	57	38	32	34	73	82	84	237	222	244	335	249	117	89	2051
18.5-24	52	38	12	27	30	15	25	62	27	145	185	79	188	149	123	76	1233
>24	50	34	7	42	31	13	12	8	11	35	37	5	56	85	60	46	532
TOTAL	293	257	215	192	205	190	239	288	242	603	592	471	735	644	432	318	5916