APPENDIX 8.1A

Quarterly Wind Roses and Wind Frequency Distributions

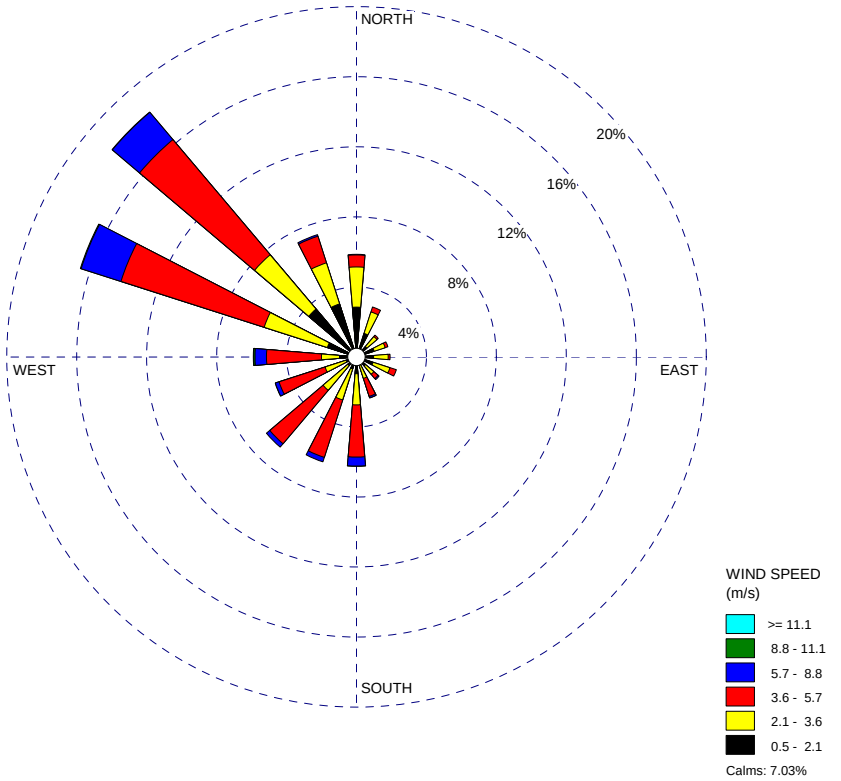
Figure 8.1A-1. Annual Wind Rose, 1990

WIND ROSE PLOT:

San Diego Lindbergh Field-1990
January 1, 1990 through December 31, 1990

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1990 **Jan 1 - Dec 31** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **7.03%**	TOTAL COUNT: **8760 hrs.**	
	AVG. WIND SPEED: **3.30 m/s**	DATE: **4/10/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

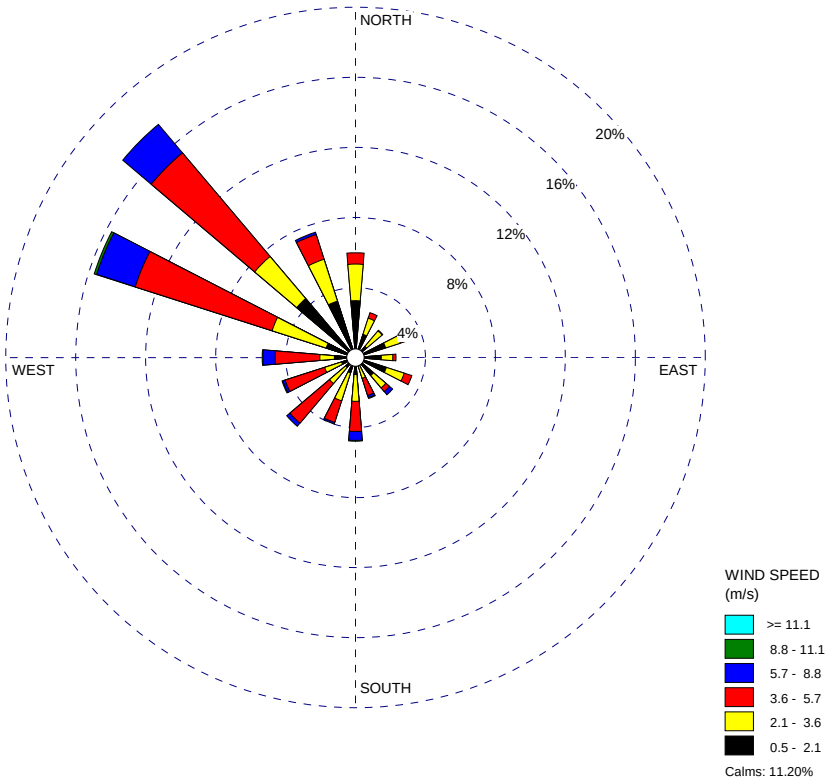
Figure 8.1A-2. First Quarter Wind Rose, 1990

WIND ROSE PLOT:

San Diego Lindbergh Field-First Quarter 1990
January 1, 1990 through March 31, 1990

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1990 **Jan 1 - Mar 31** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **11.20%**	TOTAL COUNT: **2160 hrs.**	
	AVG. WIND SPEED: **3.01 m/s**	DATE: **4/10/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

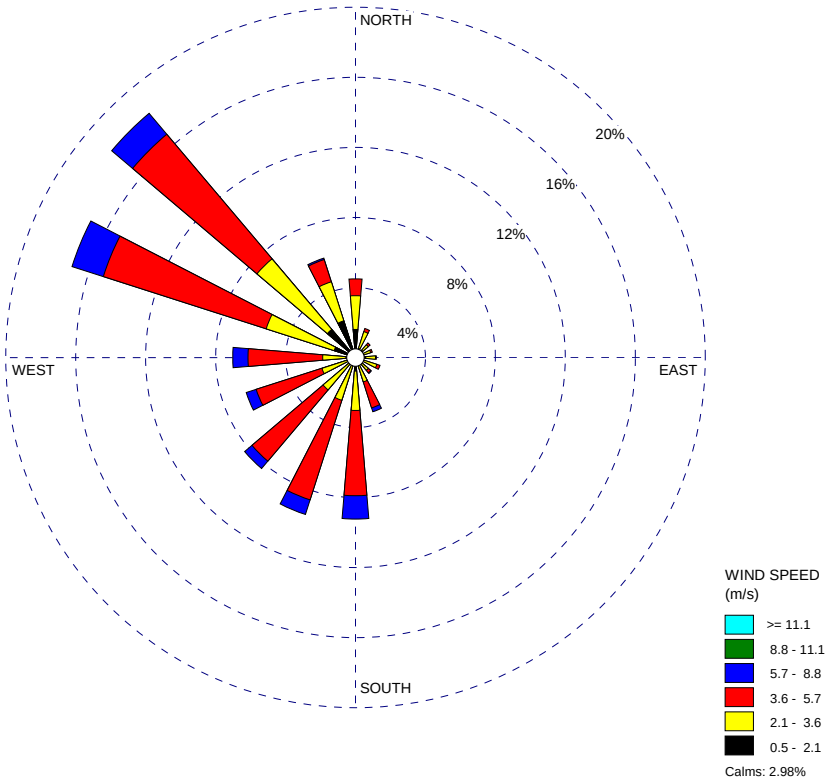
Figure 8.1A-3. Second Quarter Wind Rose, 1990

WIND ROSE PLOT:

San Diego Lindbergh Field-First Quarter 1990
April 1, 1990 through June 30, 1990

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1990 **Apr 1 - Jun 30** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **2.98%**	TOTAL COUNT: **2184 hrs.**	
	AVG. WIND SPEED: **3.71 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

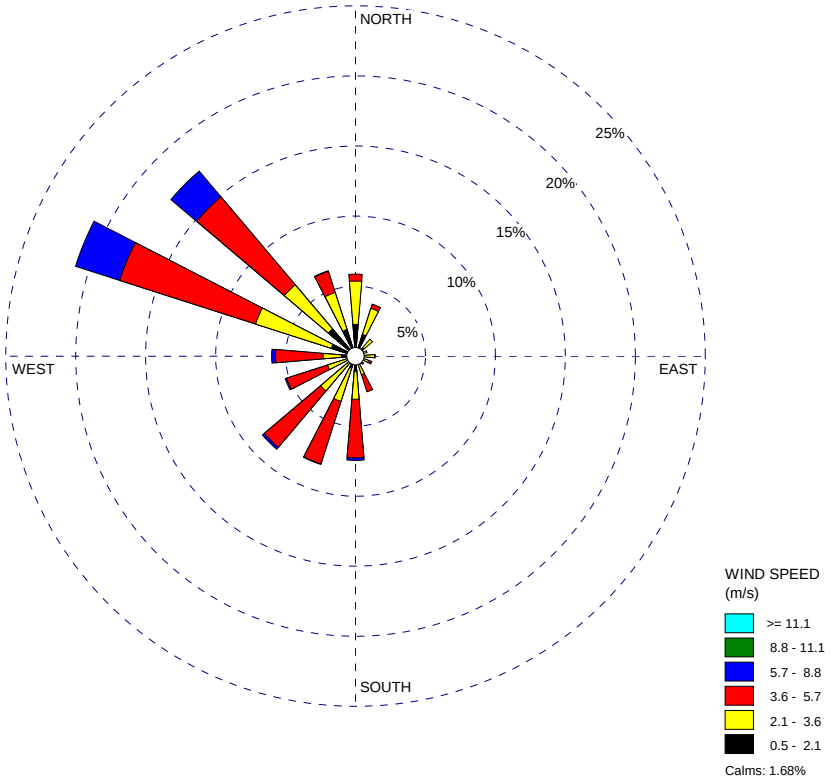
Figure 8.1A-4. Third Quarter Wind Rose, 1990

WIND ROSE PLOT:

San Diego Lindbergh Field-Third Quarter 1990
July 1, 1990 through September 30, 1990

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1990 **Jul 1 - Sep 30** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **1.68%**	TOTAL COUNT: **2208 hrs.**	
	AVG. WIND SPEED: **3.56 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

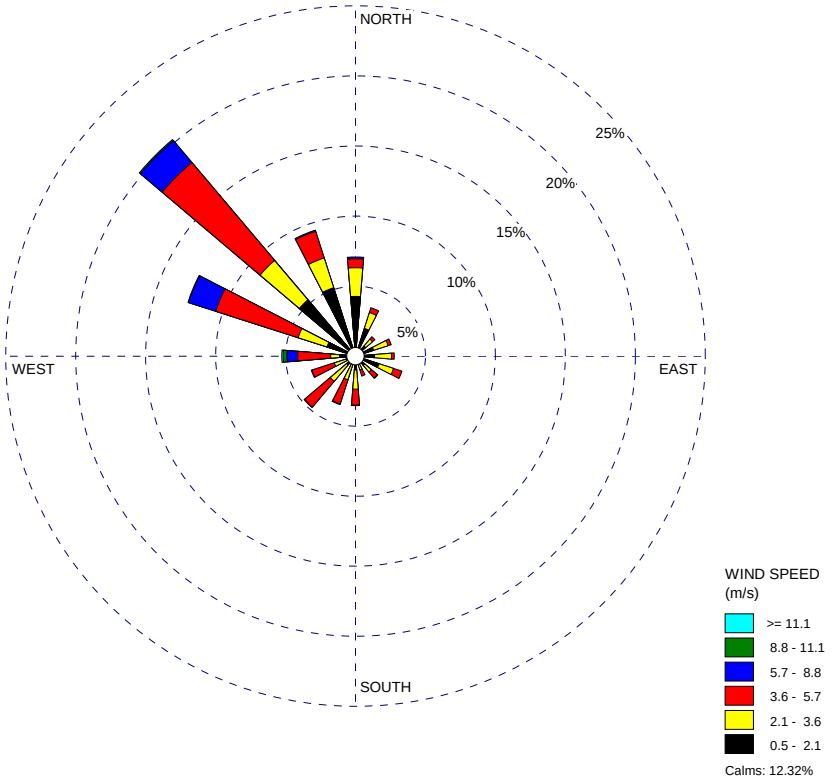
Figure 8.1A-5. Fourth Quarter Wind Rose, 1990

WIND ROSE PLOT:

San Diego Lindbergh Field-Fourth Quarter 1990
October 1, 1990 through December 31, 1990

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1990 **Oct 1 - Dec 31** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **12.32%**	TOTAL COUNT: **2208 hrs.**	
	AVG. WIND SPEED: **2.90 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

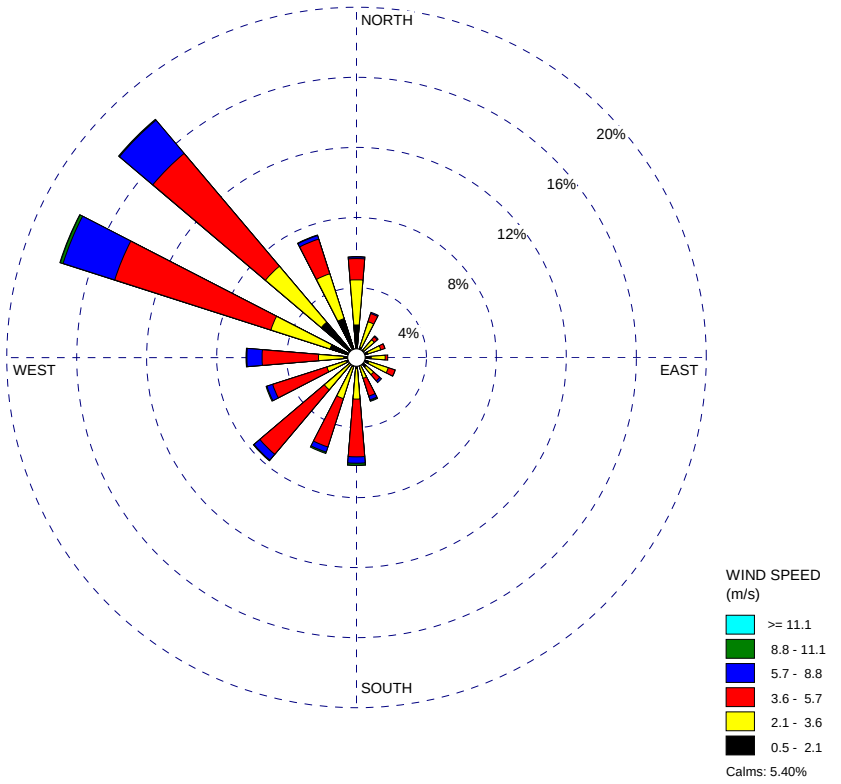
Figure 8.1A-6. Annual Wind Rose, 1991

WIND ROSE PLOT:

San Diego Lindbergh Field-1991
January 1, 1991 through December 31, 1991

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1991 **Jan 1 - Dec 31** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **5.40%**	TOTAL COUNT: **8760 hrs.**	
	AVG. WIND SPEED: **3.61 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

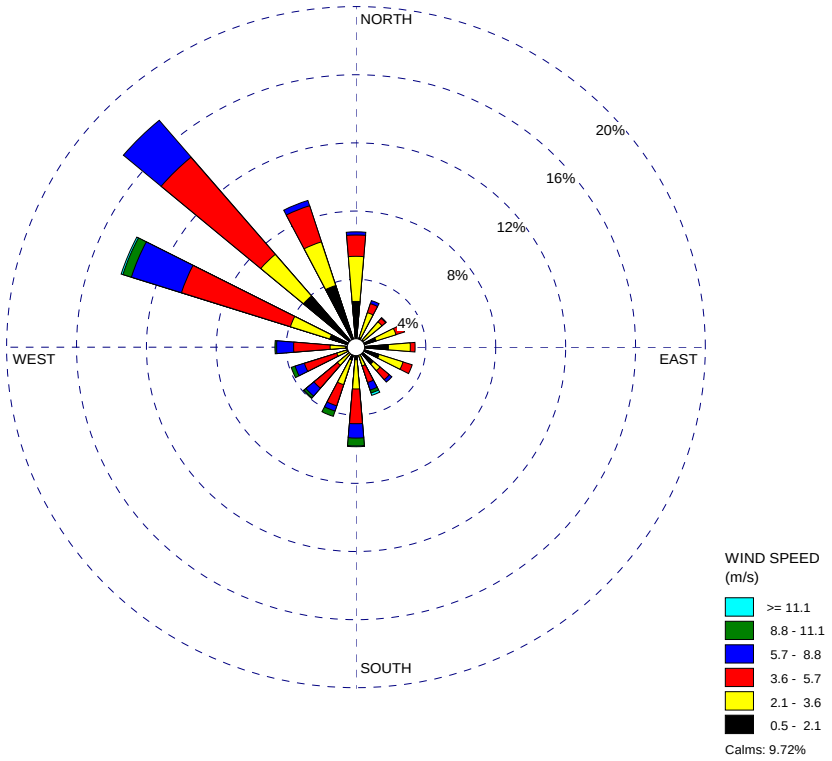
Figure 8.1A-7. First Quarter Wind Rose, 1991

WIND ROSE PLOT:

San Diego Lindbergh Field-First Quarter 1991
January 1, 1991 through March 31, 1991

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1991 **Jan 1 - Mar 31** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **9.72%**	TOTAL COUNT: **2160 hrs.**	
	AVG. WIND SPEED: **3.43 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

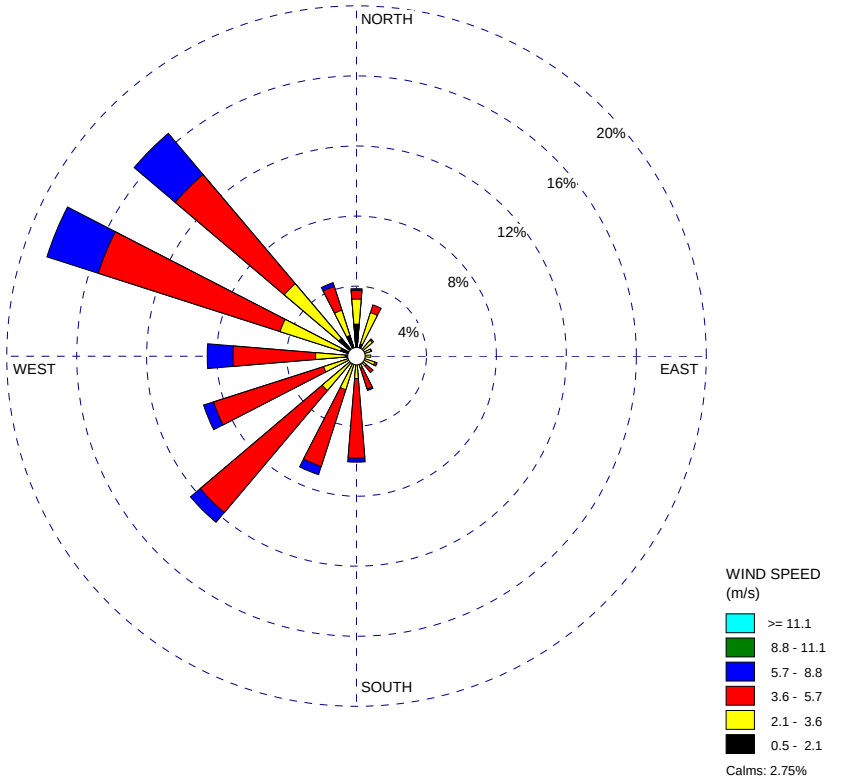
Figure 8.1A-8. Second Quarter Wind Rose, 1991

WIND ROSE PLOT:

San Diego Lindbergh Field-Second Quarter 1991
April 1, 1991 through June 30, 1991

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1991 **Apr 1 - Jun 30** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **2.75%**	TOTAL COUNT: **2184 hrs.**	
	AVG. WIND SPEED: **3.95 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

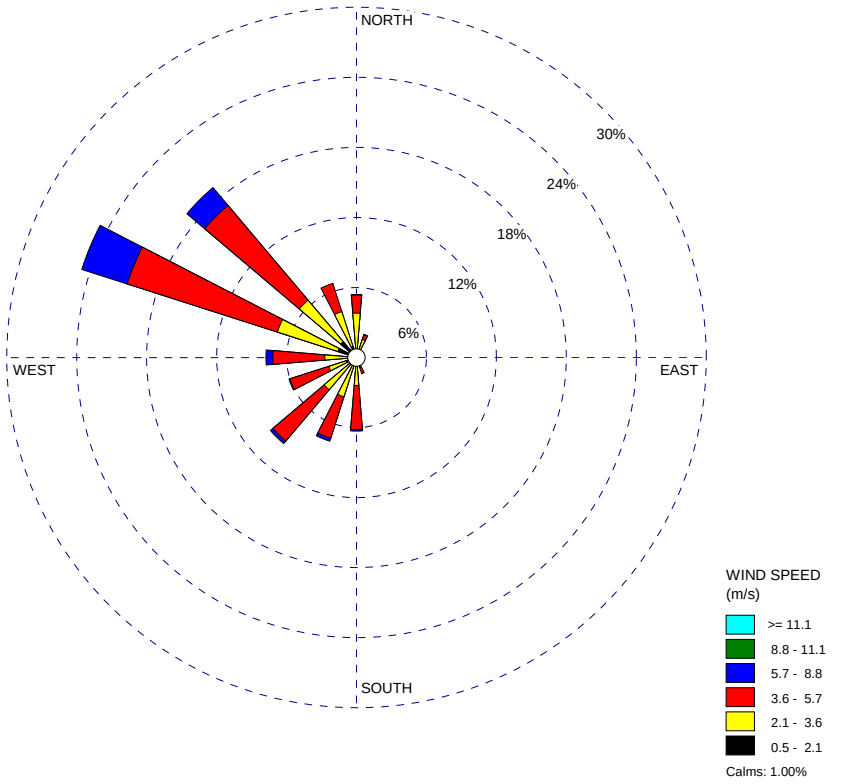
Figure 8.1A-9. Third Quarter Wind Rose, 1991

WIND ROSE PLOT:

San Diego Lindbergh Field-Third Quarter 1991
July 1, 1991 through September 30, 1991

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1991 **Jul 1 - Sep 30** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **1.00%**	TOTAL COUNT: **2208 hrs.**	
	AVG. WIND SPEED: **3.82 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

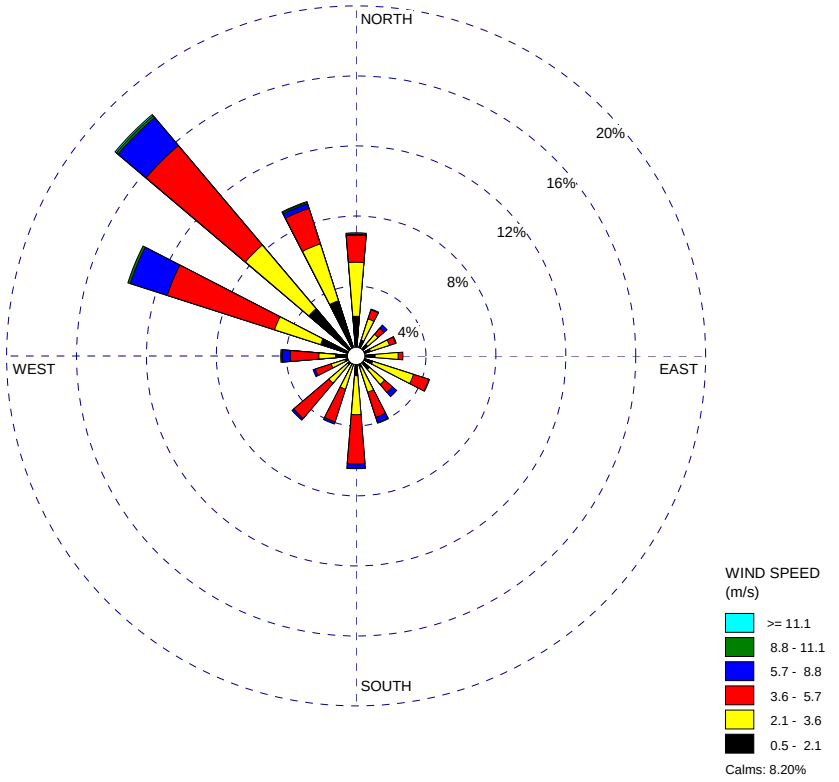
Figure 8.1A-10. Fourth Quarter Wind Rose, 1991

WIND ROSE PLOT:

San Diego Lindbergh Field-Fourth Quarter 1991
October 1, 1991 through December 31, 1991

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1991 **Oct 1 - Dec 31** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **8.20%**	TOTAL COUNT: **2208 hrs.**	
	AVG. WIND SPEED: **3.24 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

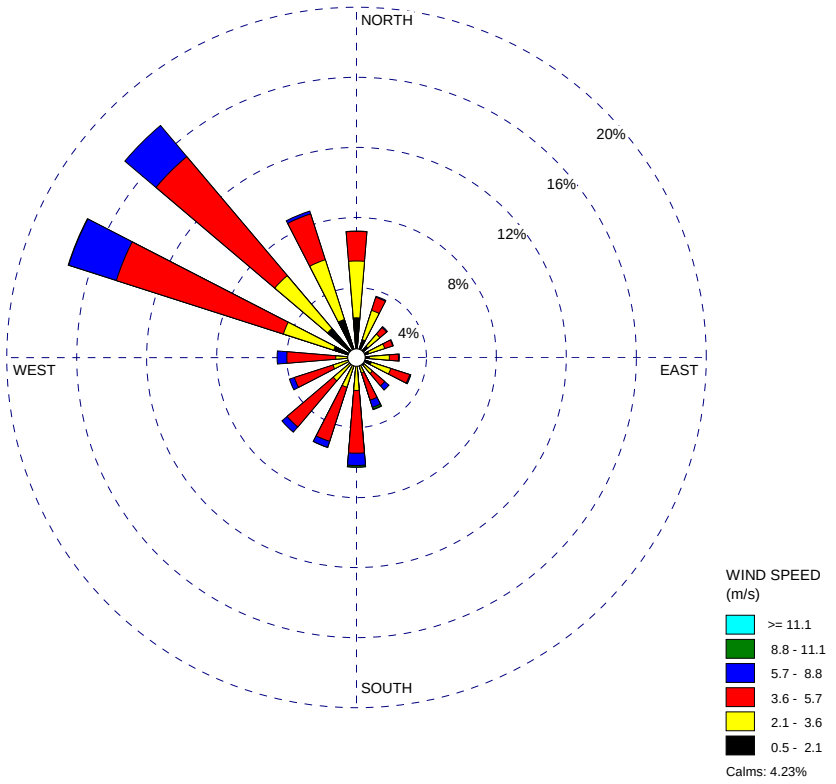
Figure 8.1A-11. Annual Wind Rose, 1992

WIND ROSE PLOT:

San Diego Lindbergh Field-1992
January 1, 1992 through December 31, 1992

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1992 **Jan 1 - Dec 31** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **4.23%**	TOTAL COUNT: **8784 hrs.**	
	AVG. WIND SPEED: **3.68 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

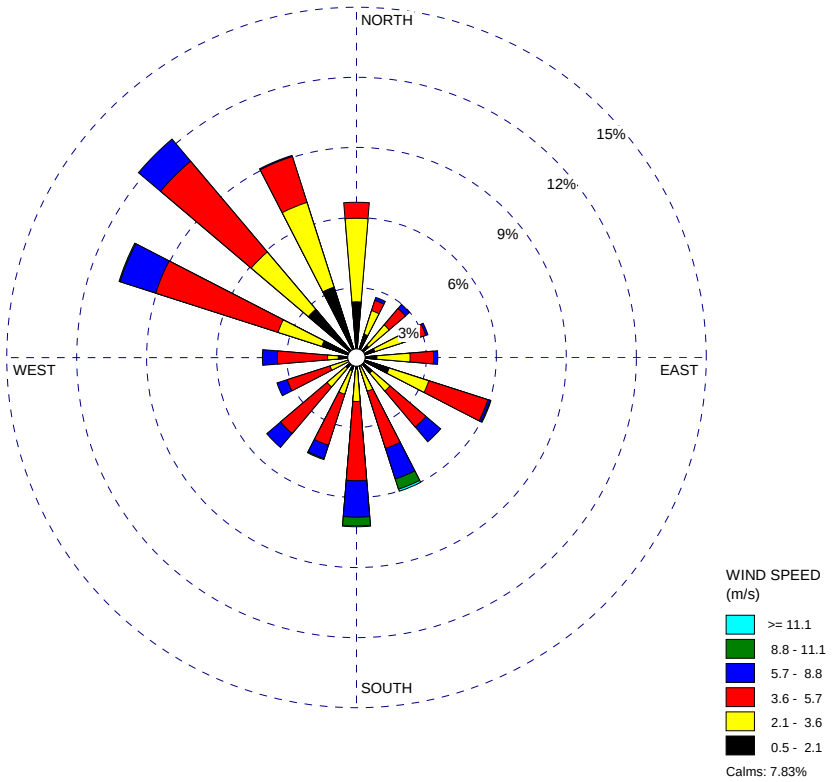
Figure 8.1A-12. First Quarter Wind Rose, 1992

WIND ROSE PLOT:

San Diego Lindbergh Field-First Quarter, 1992
January 1, 1992 through March 31, 1992

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1992 **Jan 1 - Mar 31** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **7.83%**	TOTAL COUNT: **2184 hrs.**	
	AVG. WIND SPEED: **3.52 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

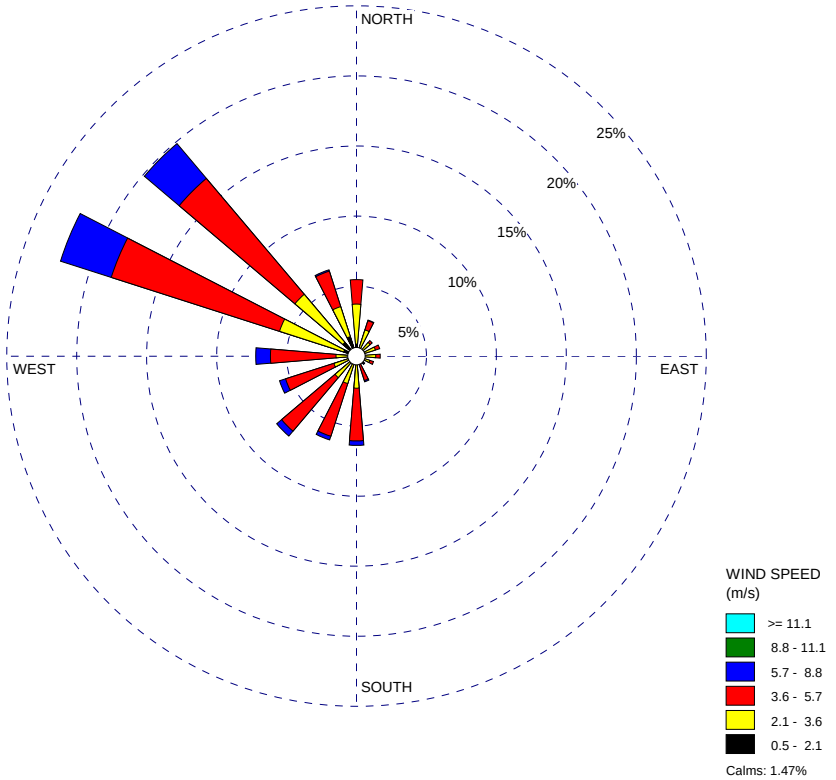
Figure 8.1A-13. Second Quarter Wind Rose, 1992

WIND ROSE PLOT:

San Diego Lindbergh Field-Second Quarter, 1992
April 1, 1992 through June 30, 1992

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1992 **Apr 1 - Jun 30** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **1.47%**	TOTAL COUNT: **2184 hrs.**	
	AVG. WIND SPEED: **3.96 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

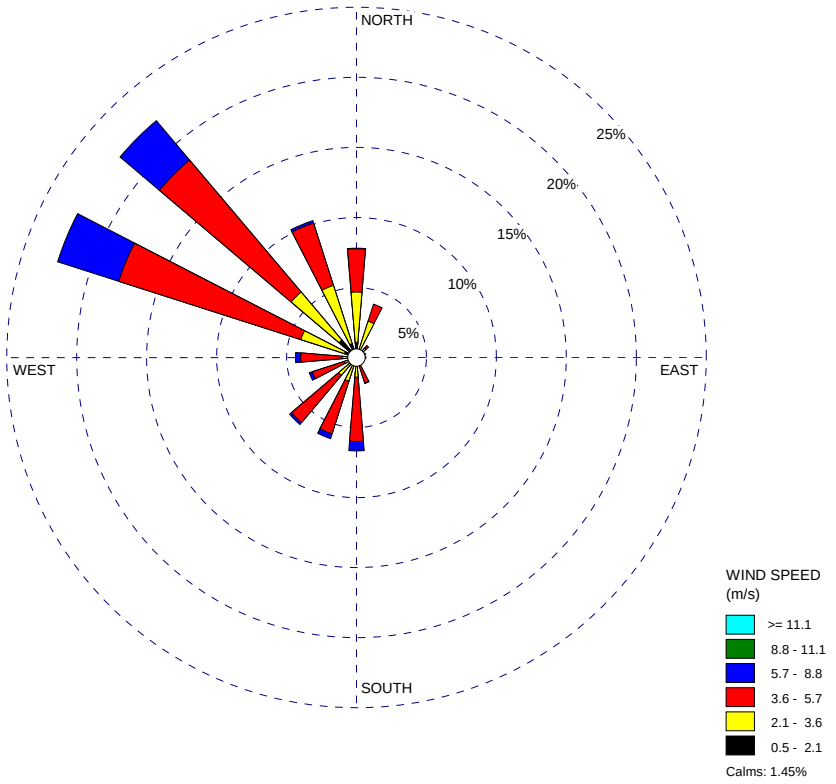
Figure 8.1A-14. Third Quarter Wind Rose, 1992

WIND ROSE PLOT:

San Diego Lindbergh Field-Third Quarter, 1992
July 1, 1992 through September 30, 1992

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1992 **Jul 1 - Sep 30** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **1.45%**	TOTAL COUNT: **2208 hrs.**	
	AVG. WIND SPEED: **4.06 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

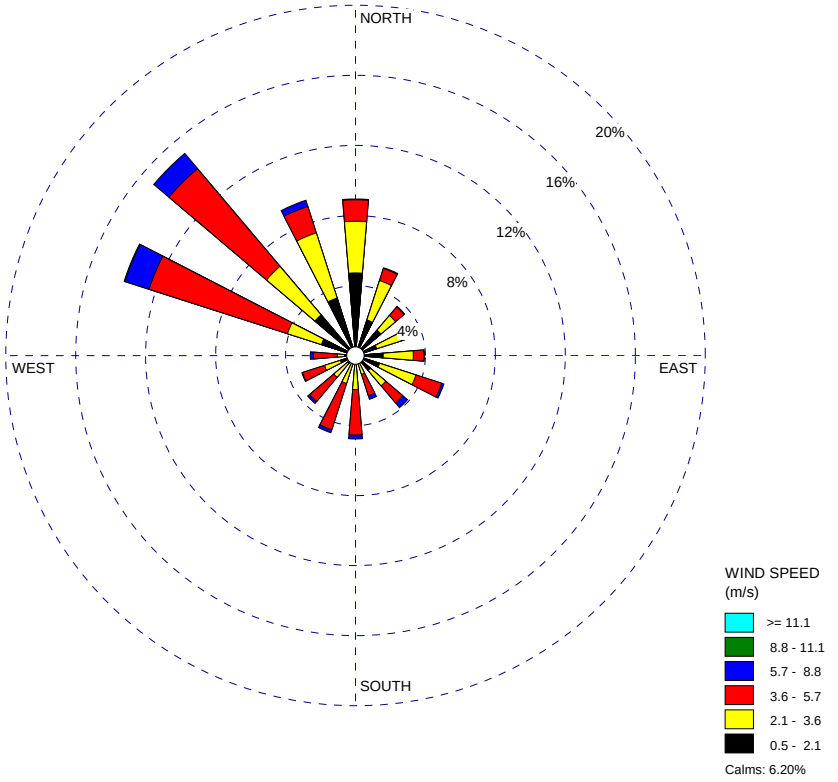
Figure 8.1A-15. Fourth Quarter Wind Rose, 1992

WIND ROSE PLOT:

San Diego Lindbergh Field-Fourth Quarter, 1992
October 1, 1992 through December 31, 1992

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1992 **Oct 1 - Dec 31** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **6.20%**	TOTAL COUNT: **2208 hrs.**	
	AVG. WIND SPEED: **3.16 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

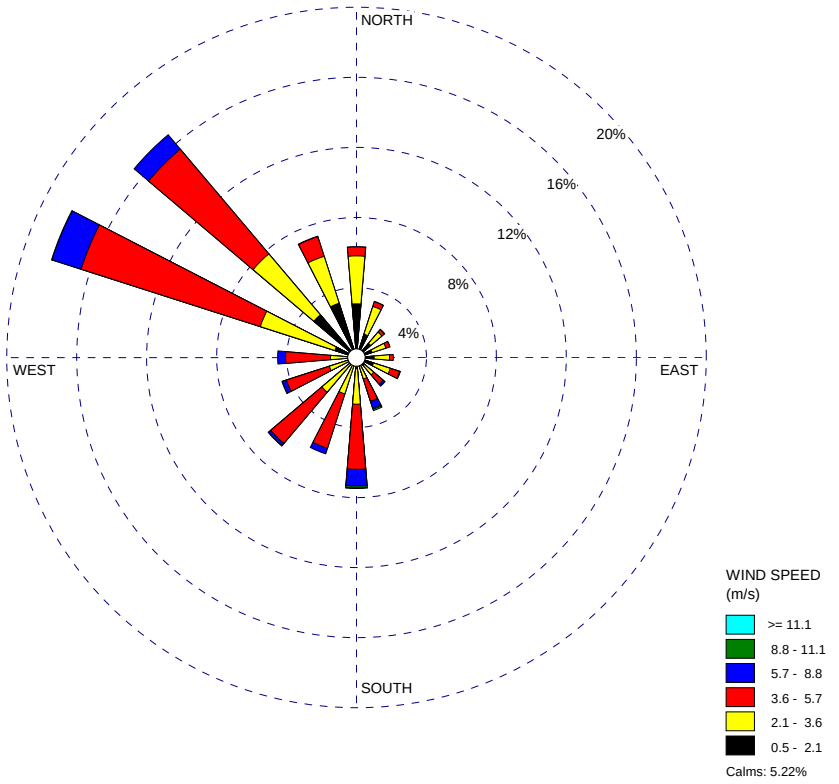
Figure 8.1A-16. Annual Wind Rose, 1993

WIND ROSE PLOT:

San Diego Lindbergh Field-1993
January 1, 1993 through December 31, 1993

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1993 **Jan 1 - Dec 31** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **5.22%**	TOTAL COUNT: **8760 hrs.**	
	AVG. WIND SPEED: **3.38 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

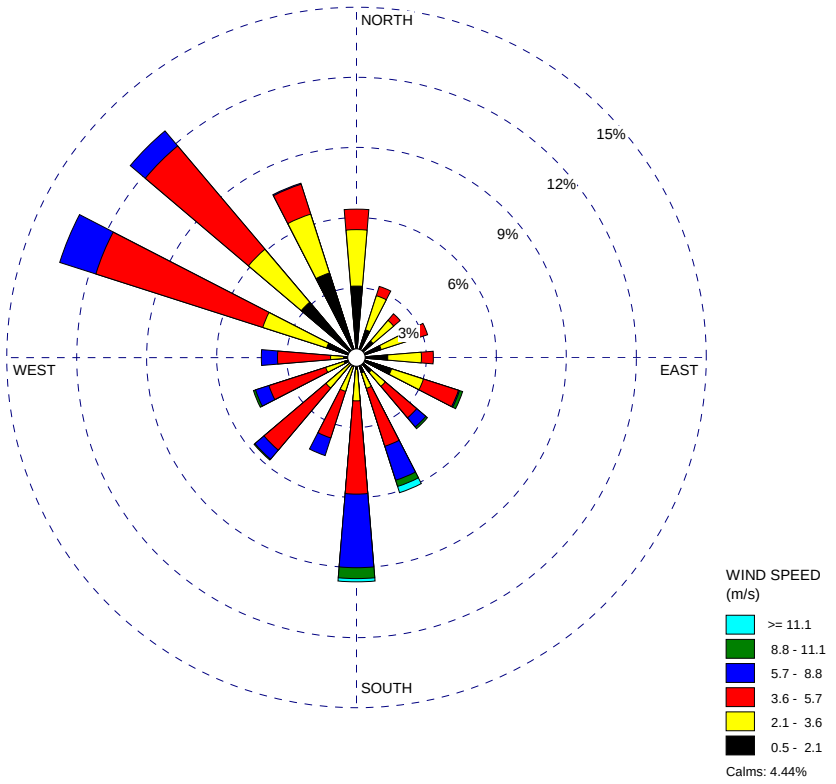
Figure 8.1A-17. First Quarter Wind Rose, 1993

WIND ROSE PLOT:

San Diego Lindbergh Field-First Quarter, 1993
January 1, 1993 through March 31, 1993

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1993 **Jan 1 - Mar 31** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **4.44%**	TOTAL COUNT: **2160 hrs.**	
	AVG. WIND SPEED: **3.68 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

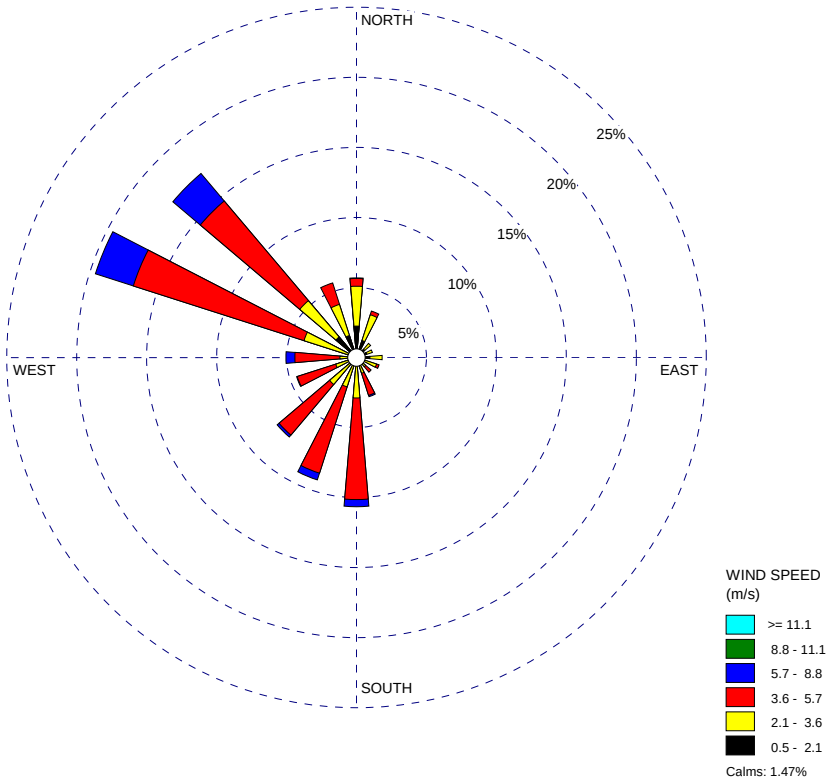
Figure 8.1A-18. Second Quarter Wind Rose, 1993

WIND ROSE PLOT:

San Diego Lindbergh Field-Second Quarter, 1993
April 1, 1993 through June 30, 1993

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1993 **Apr 1 - Jun 30** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **1.47%**	TOTAL COUNT: **2184 hrs.**	
	AVG. WIND SPEED: **3.79 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

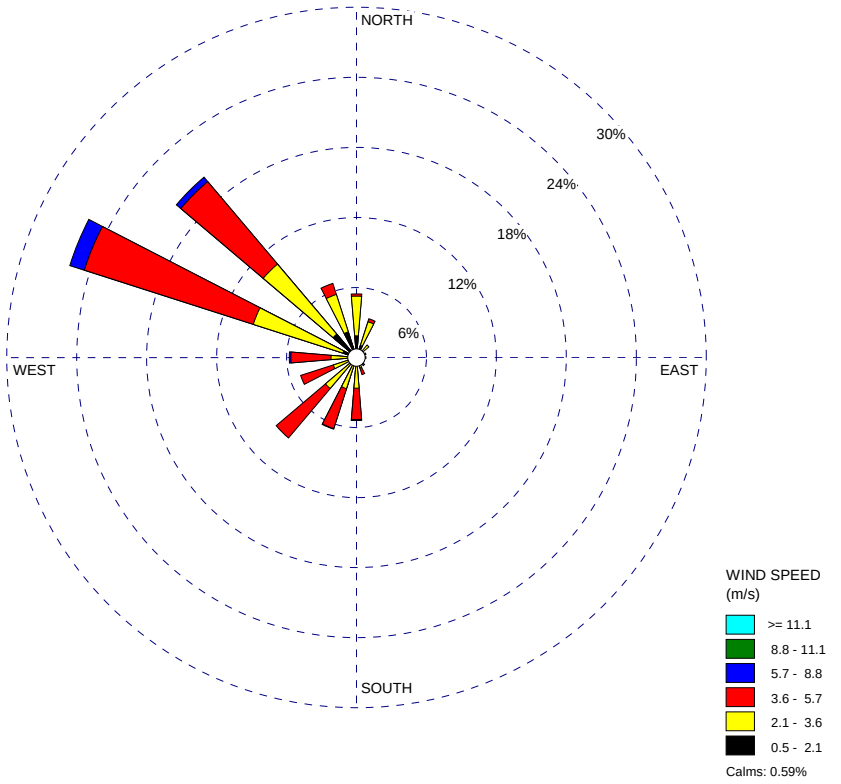
Figure 8.1A-19. Third Quarter Wind Rose, 1993

WIND ROSE PLOT:

San Diego Lindbergh Field-Third Quarter, 1993
July 1, 1993 through September 30, 1993

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1993 **Jul 1 - Sep 30** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **0.59%**	TOTAL COUNT: **2208 hrs.**	
	AVG. WIND SPEED: **3.47 m/s**	DATE: **4/7/2006**	PROJECT NO.:

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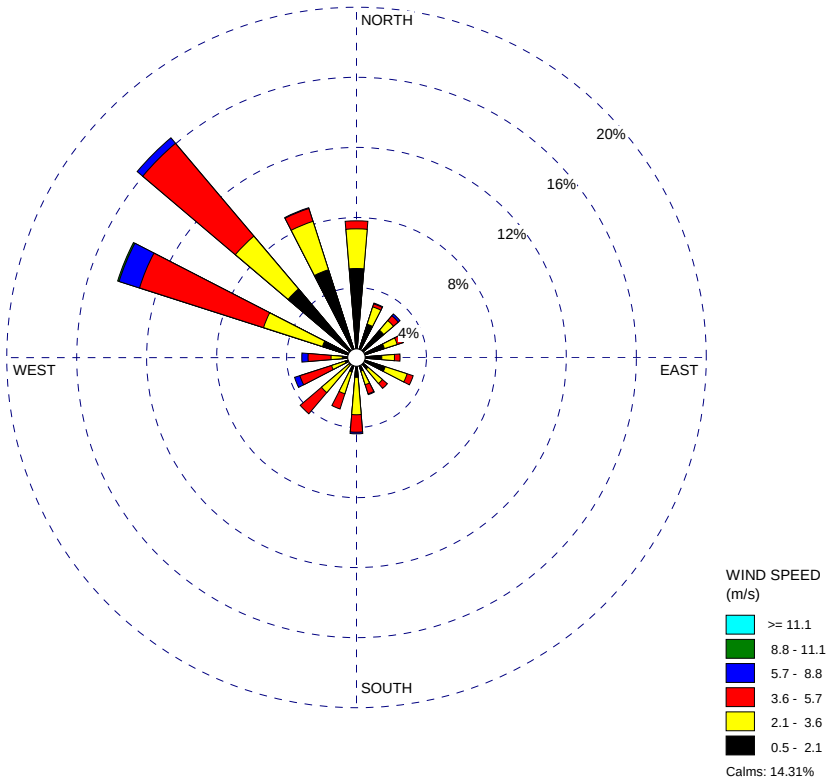
Figure 8.1A-20. Fourth Quarter Wind Rose, 1993

WIND ROSE PLOT:

San Diego Lindbergh Field-Fourth Quarter, 1993
October 1, 1993 through December 31, 1993

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1993 **Oct 1 - Dec 31** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **14.31%**	TOTAL COUNT: **2208 hrs.**	
	AVG. WIND SPEED: **2.60 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

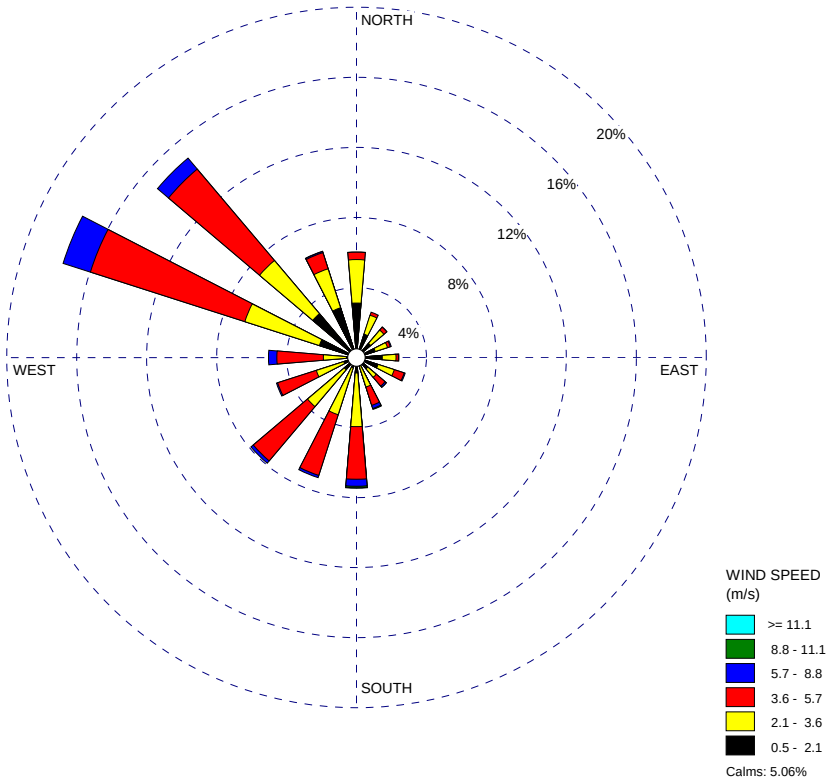
Figure 8.1A-21. Annual Wind Rose, 1994

WIND ROSE PLOT:

San Diego Lindbergh Field-1994
January 1, 1994 through December 31, 1994

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1994 **Jan 1 - Dec 31** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **5.06%**	TOTAL COUNT: **8760 hrs.**	
	AVG. WIND SPEED: **3.20 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

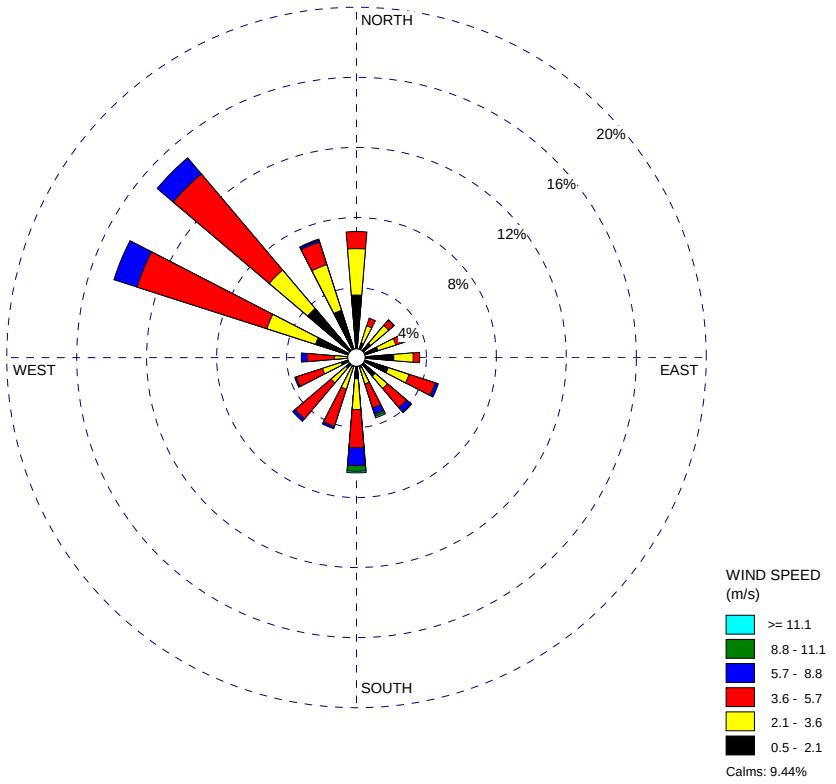
Figure 8.1A-22. First Quarter Wind Rose, 1994

WIND ROSE PLOT:

San Diego Lindbergh Field-First Quarter, 1994
January 1, 1994 through March 31, 1994

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1994 **Jan 1 - Mar 31** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **9.44%**	TOTAL COUNT: **2160 hrs.**	
	AVG. WIND SPEED: **3.13 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

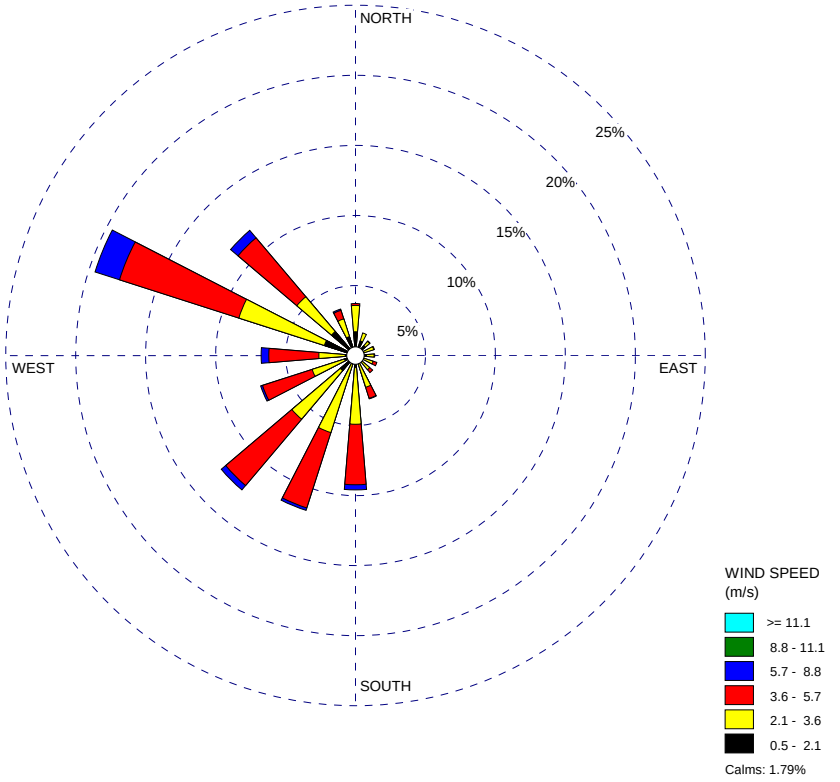
Figure 8.1A-23. Second Quarter Wind Rose, 1994

WIND ROSE PLOT:

San Diego Lindbergh Field-Second Quarter, 1994
April 1, 1994 through June 30, 1994

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1994 **Apr 1 - Jun 30** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **1.79%**	TOTAL COUNT: **2184 hrs.**	
	AVG. WIND SPEED: **3.39 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

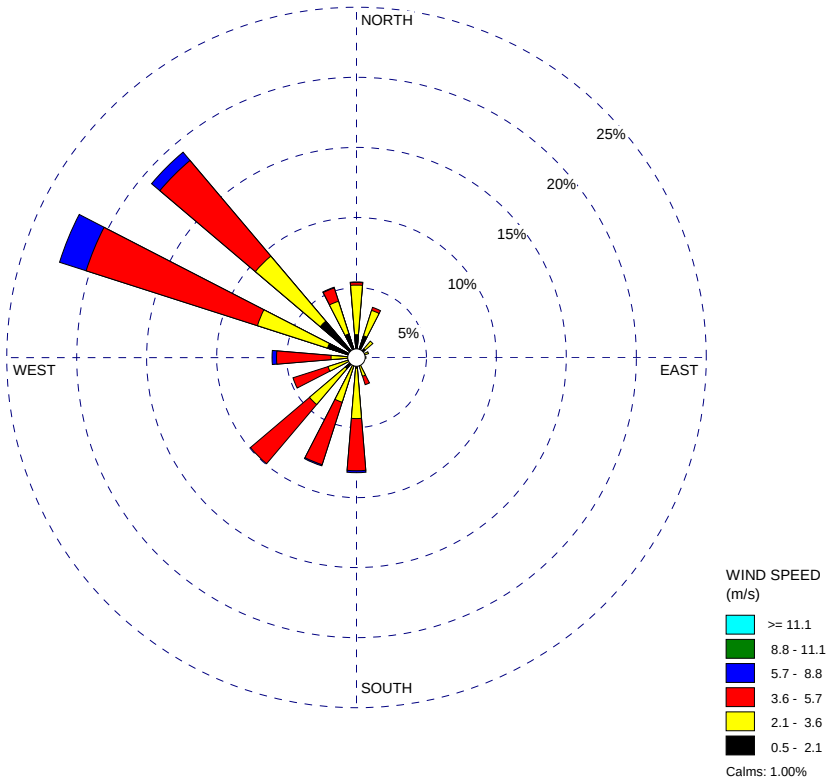
Figure 8.1A-24. Third Quarter Wind Rose, 1994

WIND ROSE PLOT:

San Diego Lindbergh Field-Third Quarter, 1994
July 1, 1994 through September 30, 1994

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1994 **Jul 1 - Sep 30** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **1.00%**	TOTAL COUNT: **2208 hrs.**	
	AVG. WIND SPEED: **3.46 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

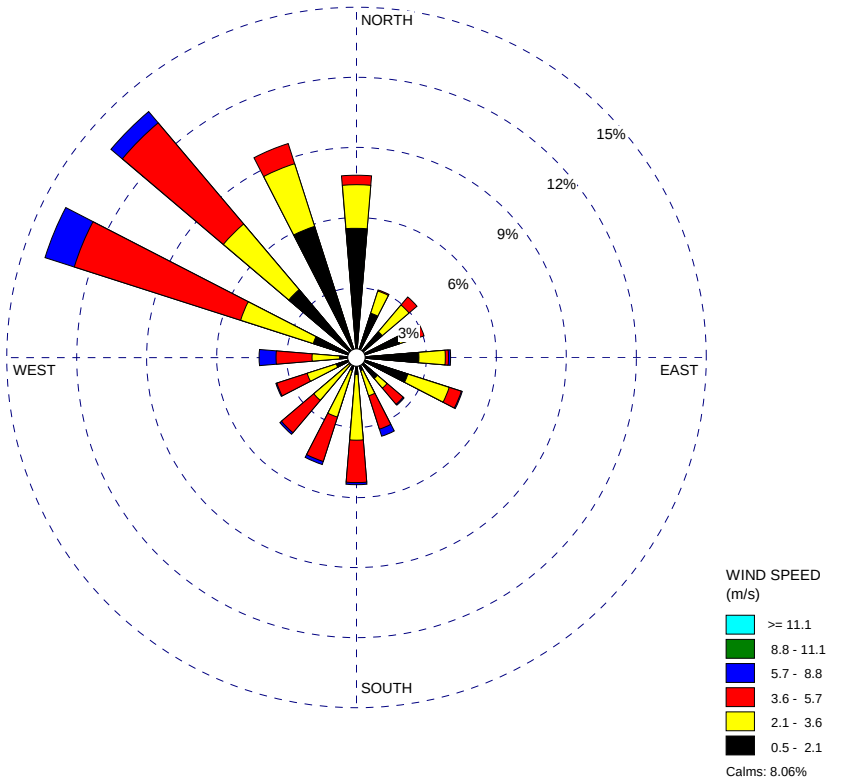
Figure 8.1A-25. Fourth Quarter Wind Rose, 1994

WIND ROSE PLOT:

San Diego Lindbergh Field-Fourth Quarter, 1994
October 1, 1994 through December 31, 1994

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	1994 **Oct 1 - Dec 31** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **8.06%**	TOTAL COUNT: **2208 hrs.**	
	AVG. WIND SPEED: **2.83 m/s**	DATE: **4/7/2006**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

SAN DIEGO – LINDBERGH FIELD METEOROLOGICAL DATA SET
1990 WIND FREQUENCY DISTRIBUTION (hours): ANNUAL
WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	91	97	276	110	20	6	2	1	0	0	0	603
NNE	43	42	149	60	9	2	0	0	0	0	0	305
NE	39	33	74	31	5	0	0	0	0	0	0	182
ENE	39	37	95	29	4	0	0	0	0	0	0	204
E	21	33	98	34	3	0	0	0	0	0	0	189
ESE	29	28	113	47	15	6	0	0	0	0	0	238
SE	25	36	52	38	11	5	6	1	0	0	0	174
SSE	9	16	62	66	47	16	6	1	1	1	0	225
S	18	33	117	178	122	50	30	11	4	1	0	564
SSW	11	18	120	169	141	79	17	6	0	0	0	561
SW	8	20	103	181	177	87	19	3	0	0	0	598
WSW	15	25	78	121	121	62	18	1	0	1	0	442
W	9	37	92	105	135	81	38	14	5	5	4	525
WNW	44	51	235	342	337	271	145	52	12	3	1	1493
NW	95	111	397	318	344	251	129	36	13	2	0	1696
NNW	120	103	283	159	62	26	4	3	1	0	0	761
TOTAL	616	720	2344	1988	1553	942	414	129	36	13	5	8760

AVERAGE ANNUAL WIND SPEED (M/S) = 3.297

1990 WIND FREQUENCY DISTRIBUTION (hours): FIRST QUARTER
WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	35	29	74	23	3	0	0	0	0	0	0	164
NNE	15	11	31	13	3	0	0	0	0	0	0	73
NE	23	9	24	11	0	0	0	0	0	0	0	67
ENE	17	16	37	9	3	0	0	0	0	0	0	82
E	11	11	31	6	2	0	0	0	0	0	0	61
ESE	12	10	42	15	5	1	0	0	0	0	0	85
SE	9	17	23	11	1	3	4	1	0	0	0	69
SSE	3	5	12	17	11	4	2	0	1	1	0	56
S	6	11	25	34	16	5	5	5	1	1	0	109
SSW	3	6	33	28	14	3	1	1	0	0	0	89
SW	4	4	21	40	32	9	4	1	0	0	0	115
WSW	10	12	17	28	24	10	3	0	0	1	0	105
W	2	10	24	25	29	11	9	4	2	1	0	117
WNW	14	17	50	75	91	52	22	24	4	3	0	352
NW	38	44	90	68	77	51	30	10	6	0	0	414
NNW	40	34	69	33	14	9	0	2	1	0	0	202
TOTAL	242	246	603	436	325	158	80	48	15	7	0	2160

1990 WIND FREQUENCY DISTRIBUTION (hours): SECOND QUARTER

WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	2	14	47	28	7	2	0	0	0	0	0	100
NNE	7	3	26	7	2	0	0	0	0	0	0	45
NE	4	5	14	4	1	0	0	0	0	0	0	28
ENE	7	2	15	5	0	0	0	0	0	0	0	29
E	0	5	14	7	0	0	0	0	0	0	0	26
ESE	0	0	20	9	3	0	0	0	0	0	0	32
SE	1	4	11	8	1	1	1	0	0	0	0	27
SSE	2	4	16	19	18	9	4	1	0	0	0	73
S	6	4	26	64	53	25	20	6	3	0	0	207
SSW	4	1	31	52	62	40	14	5	0	0	0	209
SW	1	3	30	36	59	41	10	2	0	0	0	182
WSW	2	2	18	42	41	27	12	1	0	0	0	145
W	3	4	22	34	40	34	16	3	0	0	0	156
WNW	6	6	64	89	92	79	37	3	1	0	0	377
NW	8	16	89	99	96	64	23	11	0	0	0	406
NNW	12	12	57	43	12	4	1	1	0	0	0	142
TOTAL	65	85	500	546	487	326	138	33	4	0	0	2184

1990 WIND FREQUENCY DISTRIBUTION (hours): THIRD QUARTER

WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	4	18	71	35	5	0	0	0	0	0	0	133
NNE	5	10	48	27	1	0	0	0	0	0	0	91
NE	1	7	20	8	0	0	0	0	0	0	0	36
ENE	1	5	11	3	0	0	0	0	0	0	0	20
E	2	5	19	7	0	0	0	0	0	0	0	33
ESE	2	1	17	7	2	0	0	0	0	0	0	29
SE	1	2	4	8	2	1	0	0	0	0	0	18
SSE	1	4	17	26	10	2	0	0	0	0	0	60
S	3	8	36	53	45	18	4	0	0	0	0	167
SSW	1	6	36	55	50	31	1	0	0	0	0	180
SW	1	4	32	65	52	35	4	0	0	0	0	193
WSW	1	6	22	36	35	15	2	0	0	0	0	117
W	0	7	29	29	37	24	5	1	0	0	0	132
WNW	1	6	78	122	92	92	59	13	1	0	0	464
NW	5	15	94	76	75	68	46	7	0	0	0	386
NNW	8	15	62	40	17	6	1	0	0	0	0	149
TOTAL	37	119	596	597	423	292	122	21	1	0	0	2208

1990 WIND FREQUENCY DISTRIBUTION (hours): FOURTH QUARTER

WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	50	36	84	24	5	4	2	1	0	0	0	206
NNE	16	18	44	13	3	2	0	0	0	0	0	96
NE	11	12	16	8	4	0	0	0	0	0	0	51
ENE	14	14	32	12	1	0	0	0	0	0	0	73
E	8	12	34	14	1	0	0	0	0	0	0	69
ESE	15	17	34	16	5	5	0	0	0	0	0	92
SE	14	13	14	11	7	0	1	0	0	0	0	60
SSE	3	3	17	4	8	1	0	0	0	0	0	36
S	3	10	30	27	8	2	1	0	0	0	0	81
SSW	3	5	20	34	15	5	1	0	0	0	0	83
SW	2	9	20	40	34	2	1	0	0	0	0	108
WSW	2	5	21	15	21	10	1	0	0	0	0	75
W	4	16	17	17	29	12	8	6	3	4	4	120
WNW	23	22	43	56	62	48	27	12	6	0	1	300
NW	44	36	124	75	96	68	30	8	7	2	0	490
NNW	60	42	95	43	19	7	2	0	0	0	0	268
TOTAL	272	270	645	409	318	166	74	27	16	6	5	2208

1991 WIND FREQUENCY DISTRIBUTION (hours): ANNUAL

WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	62	47	236	160	39	12	7	1	0	1	1	566
NNE	26	19	105	87	14	6	4	2	0	0	0	263
NE	13	12	77	39	4	4	2	4	0	0	0	155
ENE	26	17	88	35	7	2	1	0	0	0	0	176
E	41	28	87	36	5	1	0	0	0	0	0	198
ESE	28	21	101	56	19	6	0	1	0	0	0	232
SE	13	15	77	32	16	13	9	2	0	0	0	177
SSE	11	3	62	76	46	16	10	6	3	4	4	241
S	20	16	91	194	141	54	14	12	6	6	5	559
SSW	8	17	104	172	107	69	23	1	3	4	3	511
SW	16	10	93	212	156	162	26	6	6	2	2	691
WSW	4	18	78	131	129	84	20	6	4	2	3	479
W	20	20	100	129	122	101	50	19	7	2	2	572
WNW	34	35	240	332	320	342	174	78	19	9	7	1590
NW	69	60	347	361	314	252	153	41	24	3	2	1626
NNW	82	51	263	209	67	31	11	5	2	2	1	724
TOTAL	473	389	2149	2261	1506	1155	504	184	74	35	30	8760

AVERAGE ANNUAL WIND SPEED (M/S) = 3.609

1991 WIND FREQUENCY DISTRIBUTION (hours): FIRST QUARTER
WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	32	22	67	37	13	3	4	0	0	0	0	178
NNE	13	6	25	20	6	1	3	1	0	0	0	75
NE	4	4	26	17	1	0	1	0	0	0	0	53
ENE	11	8	35	15	3	2	0	0	0	0	0	74
E	26	15	42	14	1	1	0	0	0	0	0	99
ESE	12	15	36	12	9	1	0	0	0	0	0	85
SE	5	7	27	10	4	6	3	1	0	0	0	63
SSE	1	2	13	19	11	2	4	4	2	4	3	65
S	6	9	25	35	21	7	6	8	4	6	5	132
SSW	1	6	24	31	10	7	5	1	1	4	3	93
SW	7	3	11	25	15	14	4	3	6	2	2	92
WSW	0	7	11	19	18	12	5	4	3	2	3	84
W	5	7	13	23	14	20	5	9	7	1	1	105
WNW	10	11	47	55	55	58	36	20	9	6	7	314
NW	36	37	87	58	69	64	38	11	12	0	0	412
NNW	41	23	86	57	13	9	4	3	0	0	0	236
TOTAL	210	182	575	447	263	207	118	65	44	25	24	2160

1991 WIND FREQUENCY DISTRIBUTION (hours): SECOND QUARTER
WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	8	12	49	14	4	3	2	0	0	0	0	92
NNE	3	6	34	23	3	1	0	0	0	0	0	70
NE	1	1	21	6	0	0	0	0	0	0	0	29
ENE	3	3	14	3	0	0	0	0	0	0	0	23
E	3	4	9	5	0	0	0	0	0	0	0	21
ESE	4	4	16	5	2	0	0	0	0	0	0	31
SE	1	2	10	7	6	2	0	0	0	0	0	28
SSE	3	0	10	15	13	5	2	0	0	0	0	48
S	5	1	6	45	53	22	3	2	0	0	0	137
SSW	0	5	14	52	42	31	10	0	1	0	0	155
SW	2	3	24	69	75	84	16	0	0	0	0	273
WSW	0	1	17	51	67	51	13	0	0	0	0	200
W	3	6	23	35	47	43	27	5	0	0	0	189
WNW	7	4	45	105	86	98	43	22	2	0	0	412
NW	3	4	61	102	72	57	43	18	6	0	0	366
NNW	14	6	40	26	12	7	4	1	0	0	0	110
TOTAL	60	62	393	563	482	404	163	48	9	0	0	2184

1991 WIND FREQUENCY DISTRIBUTION (hours): THIRD QUARTER
WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	1	3	48	54	12	1	1	0	0	0	0	120
NNE	0	2	14	26	2	1	0	1	0	0	0	46
NE	2	2	8	4	0	0	0	0	0	0	0	16
ENE	0	4	7	3	0	0	0	0	0	0	0	14
E	0	1	3	2	1	0	0	0	0	0	0	7
ESE	0	1	5	0	1	0	0	0	0	0	0	7
SE	0	2	6	2	2	0	0	0	0	0	0	12
SSE	0	0	10	17	4	1	0	0	0	0	0	32
S	2	3	22	54	43	14	3	0	0	0	0	141
SSW	3	4	41	54	40	21	6	0	0	0	0	169
SW	4	1	33	82	46	45	5	1	0	0	0	217
WSW	1	7	25	46	38	16	2	0	0	0	0	135
W	0	3	31	53	45	26	12	1	0	0	0	171
WNW	1	8	80	116	122	129	68	20	2	0	0	546
NW	4	5	76	116	103	76	36	8	0	0	0	424
NNW	4	5	41	70	22	9	0	0	0	0	0	151
TOTAL	22	51	450	699	481	339	133	31	2	0	0	2208

1991 WIND FREQUENCY DISTRIBUTION (hours): FOURTH QUARTER
WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	21	10	72	55	10	5	0	1	0	1	1	176
NNE	10	5	32	18	3	3	1	0	0	0	0	72
NE	6	5	22	12	3	4	1	4	0	0	0	57
ENE	12	2	32	14	4	0	1	0	0	0	0	65
E	12	8	33	15	3	0	0	0	0	0	0	71
ESE	12	1	44	39	7	5	0	1	0	0	0	109
SE	7	4	34	13	4	5	6	1	0	0	0	74
SSE	7	1	29	25	18	8	4	2	1	0	1	96
S	7	3	38	60	24	11	2	2	2	0	0	149
SSW	4	2	25	35	15	10	2	0	1	0	0	94
SW	3	3	25	36	20	19	1	2	0	0	0	109
WSW	3	3	25	15	6	5	0	2	1	0	0	60
W	12	4	33	18	16	12	6	4	0	1	1	107
WNW	16	12	68	56	57	57	27	16	6	3	0	318
NW	26	14	123	85	70	55	36	4	6	3	2	424
NNW	23	17	96	56	20	6	3	1	2	2	1	227
TOTAL	181	94	731	552	280	205	90	40	19	10	6	2208

1992 WIND FREQUENCY DISTRIBUTION (hours): ANNUAL

WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	61	46	288	229	58	10	2	0	0	0	0	694
NNE	23	29	134	133	20	1	4	1	0	0	0	345
NE	25	26	87	57	21	6	4	1	1	0	0	228
ENE	18	17	94	58	16	6	3	0	0	0	0	212
E	13	16	97	74	20	3	4	0	1	0	0	228
ESE	25	17	102	93	45	23	4	1	0	0	1	311
SE	20	19	55	49	35	28	14	9	5	0	0	234
SSE	7	6	43	73	58	44	16	11	11	6	6	281
S	5	6	71	164	148	90	36	16	9	4	5	554
SSW	6	11	78	139	130	83	24	5	2	1	0	479
SW	6	9	65	139	127	116	31	3	0	0	0	496
WSW	5	3	66	99	84	75	23	3	0	0	0	358
W	7	19	54	85	110	81	41	7	1	0	0	405
WNW	37	32	197	281	397	357	201	42	8	1	1	1554
NW	43	38	294	346	325	314	165	34	5	0	0	1564
NNW	71	39	296	260	116	44	12	3	0	0	0	841
TOTAL	372	333	2021	2279	1710	1281	584	136	43	12	13	8784

AVERAGE ANNUAL WIND SPEED (M/S) = 3.677

1992 WIND FREQUENCY DISTRIBUTION (hours): FIRST QUARTER

WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	35	12	86	43	3	1	0	0	0	0	0	180
NNE	7	7	27	20	2	0	2	1	0	0	0	66
NE	5	5	24	14	13	4	3	1	1	0	0	70
ENE	12	4	30	22	7	5	2	0	0	0	0	82
E	5	3	32	22	13	2	3	0	1	0	0	81
ESE	9	7	42	37	27	16	2	0	0	0	1	141
SE	14	7	22	20	15	21	10	4	4	0	0	117
SSE	5	1	17	29	24	18	11	9	10	6	6	136
S	3	2	21	36	31	25	19	8	7	4	5	161
SSW	0	3	23	18	30	12	7	4	2	1	0	100
SW	3	4	20	27	25	17	14	3	0	0	0	113
WSW	0	0	18	14	18	18	8	2	0	0	0	78
W	1	8	12	16	19	19	9	4	1	0	0	89
WNW	13	9	47	45	50	46	26	7	2	0	1	246
NW	21	10	86	53	51	40	23	2	2	0	0	288
NNW	38	14	96	56	25	6	1	0	0	0	0	236
TOTAL	171	96	603	472	353	250	140	45	30	11	13	2184

1992 WIND FREQUENCY DISTRIBUTION (hours): SECOND QUARTER
WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	3	2	50	48	14	5	0	0	0	0	0	122
NNE	1	4	20	30	3	1	1	0	0	0	0	60
NE	2	3	15	12	2	0	0	0	0	0	0	34
ENE	0	1	23	12	1	1	0	0	0	0	0	38
E	2	1	12	23	1	0	0	0	0	0	0	39
ESE	2	0	13	12	3	0	0	0	0	0	0	30
SE	2	0	4	7	3	1	1	1	0	0	0	19
SSE	1	0	5	13	14	8	2	0	0	0	0	43
S	1	1	17	53	40	21	6	1	0	0	0	140
SSW	1	0	24	43	40	24	6	0	0	0	0	138
SW	1	2	16	46	48	41	10	0	0	0	0	164
WSW	2	0	15	42	25	34	9	1	0	0	0	128
W	1	3	15	35	47	34	21	2	0	0	0	158
WNW	3	6	59	104	124	108	70	13	0	0	0	487
NW	3	4	64	117	89	88	62	8	1	0	0	436
NNW	7	4	47	48	31	9	2	0	0	0	0	148
TOTAL	32	31	399	645	485	375	190	26	1	0	0	2184

1992 WIND FREQUENCY DISTRIBUTION (hours): THIRD QUARTER
WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	2	5	38	95	31	2	1	0	0	0	0	174
NNE	1	4	26	47	11	0	0	0	0	0	0	89
NE	2	2	11	11	1	0	0	0	0	0	0	27
ENE	0	2	4	9	0	0	0	0	0	0	0	15
E	0	1	6	8	0	0	0	0	0	0	0	15
ESE	0	2	3	3	1	0	0	0	0	0	0	9
SE	0	0	4	3	1	0	0	0	0	0	0	8
SSE	0	1	9	13	8	11	1	0	0	0	0	43
S	0	1	15	36	47	33	9	4	2	0	0	147
SSW	3	3	15	42	34	32	7	1	0	0	0	137
SW	1	0	13	43	32	46	4	0	0	0	0	139
WSW	0	0	9	21	27	16	5	0	0	0	0	78
W	3	4	9	26	26	23	7	1	0	0	0	99
WNW	8	5	40	89	134	125	83	17	1	0	0	502
NW	9	6	64	109	110	118	61	19	1	0	0	497
NNW	3	5	45	105	46	21	3	1	0	0	0	229
TOTAL	32	41	311	660	509	427	181	43	4	0	0	2208

1992 WIND FREQUENCY DISTRIBUTION (hours): FOURTH QUARTER

WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	21	27	114	43	10	2	1	0	0	0	0	218
NNE	14	14	61	36	4	0	1	0	0	0	0	130
NE	16	16	37	20	5	2	1	0	0	0	0	97
ENE	6	10	37	15	8	0	1	0	0	0	0	77
E	6	11	47	21	6	1	1	0	0	0	0	93
ESE	14	8	44	41	14	7	2	1	0	0	0	131
SE	4	12	25	19	16	6	3	4	1	0	0	90
SSE	1	4	12	18	12	7	2	2	1	0	0	59
S	1	2	18	39	30	11	2	3	0	0	0	106
SSW	2	5	16	36	26	15	4	0	0	0	0	104
SW	1	3	16	23	22	12	3	0	0	0	0	80
WSW	3	3	24	22	14	7	1	0	0	0	0	74
W	2	4	18	8	18	5	4	0	0	0	0	59
WNW	13	12	51	43	89	78	22	5	5	1	0	319
NW	10	18	80	67	75	68	19	5	1	0	0	343
NNW	23	16	108	51	14	8	6	2	0	0	0	228
TOTAL	137	165	708	502	363	229	73	22	8	1	0	2208

1993 WIND FREQUENCY DISTRIBUTION (hours): ANNUAL

WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	89	71	320	136	24	1	1	0	0	0	0	642
NNE	20	35	171	77	10	0	0	1	0	0	0	314
NE	17	36	92	45	6	3	0	2	1	0	0	202
ENE	29	38	87	36	12	2	0	0	0	0	1	205
E	20	27	96	50	9	2	0	0	0	0	0	204
ESE	14	24	105	67	26	5	1	0	0	2	1	245
SE	20	17	64	52	30	11	8	3	0	2	0	207
SSE	7	7	65	77	45	36	18	14	4	3	9	285
S	10	17	95	215	156	75	43	26	14	8	5	664
SSW	2	13	87	164	140	72	18	7	4	0	0	507
SW	6	9	97	207	170	79	11	3	1	0	1	584
WSW	5	12	74	119	105	58	16	4	1	1	1	396
W	8	10	61	112	109	62	29	6	5	0	0	402
WNW	41	24	239	457	436	289	115	31	7	2	0	1641
NW	83	65	375	395	350	178	87	7	0	0	0	1540
NNW	86	74	343	152	51	14	2	0	0	0	0	722
TOTAL	457	479	2371	2361	1679	887	349	104	37	18	18	8760

AVERAGE ANNUAL WIND SPEED (M/S) = 3.381

1993 WIND FREQUENCY DISTRIBUTION (hours): FIRST QUARTER
WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	27	18	78	31	9	1	0	0	0	0	0	164
NNE	5	13	32	20	4	0	0	0	0	0	0	74
NE	7	10	20	17	5	1	0	0	0	0	0	60
ENE	6	7	35	19	8	0	0	0	0	0	0	75
E	3	10	34	20	5	2	0	0	0	0	0	74
ESE	7	9	42	23	20	5	1	0	0	2	1	110
SE	4	5	23	17	19	9	8	3	0	2	0	90
SSE	1	3	16	23	18	26	15	14	4	3	9	132
S	2	6	18	35	33	34	29	25	14	8	5	209
SSW	0	2	18	23	19	16	9	5	3	0	0	95
SW	0	2	13	37	35	25	8	2	1	0	1	124
WSW	1	4	19	23	21	18	10	2	1	1	1	101
W	2	1	14	18	20	20	10	3	2	0	0	90
WNW	6	5	44	75	69	60	22	10	3	0	0	294
NW	17	10	79	67	54	46	16	2	0	0	0	291
NNW	8	22	96	28	18	4	1	0	0	0	0	177
TOTAL	96	127	581	476	357	267	129	66	28	16	17	2160

1993 WIND FREQUENCY DISTRIBUTION (hours): SECOND QUARTER
WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	8	11	68	38	6	0	1	0	0	0	0	132
NNE	1	4	44	26	2	0	0	0	0	0	0	77
NE	3	7	15	7	0	0	0	0	0	0	0	32
ENE	0	10	14	2	0	0	0	0	0	0	0	26
E	0	5	20	15	0	0	0	0	0	0	0	40
ESE	1	2	16	17	2	0	0	0	0	0	0	38
SE	0	3	8	12	6	1	0	0	0	0	0	30
SSE	1	0	14	25	16	7	2	0	0	0	0	65
S	2	2	19	82	88	30	10	1	0	0	0	234
SSW	1	2	21	56	68	42	8	2	1	0	0	201
SW	0	2	28	44	58	26	3	1	0	0	0	162
WSW	2	0	14	31	31	21	1	0	0	0	0	100
W	0	0	13	31	30	22	14	0	0	0	0	110
WNW	3	3	38	109	115	100	51	10	1	0	0	430
NW	6	8	61	90	99	61	52	4	0	0	0	381
NNW	4	7	53	45	12	5	0	0	0	0	0	126
TOTAL	32	66	446	630	533	315	142	18	2	0	0	2184

1993 WIND FREQUENCY DISTRIBUTION (hours): THIRD QUARTER
WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	1	6	65	47	2	0	0	0	0	0	0	121
NNE	0	2	53	21	1	0	0	0	0	0	0	77
NE	0	2	21	8	0	0	0	0	0	0	0	31
ENE	2	2	10	7	0	0	0	0	0	0	0	21
E	0	0	12	6	0	0	0	0	0	0	0	18
ESE	0	0	8	8	0	0	0	0	0	0	0	16
SE	0	5	5	8	1	1	0	0	0	0	0	20
SSE	0	0	13	11	8	2	0	0	0	0	0	34
S	0	1	22	57	26	11	2	0	0	0	0	119
SSW	0	0	27	55	47	12	1	0	0	0	0	142
SW	0	0	32	82	61	24	0	0	0	0	0	199
WSW	1	2	26	36	35	12	0	0	0	0	0	112
W	0	1	21	45	43	14	3	0	0	0	0	127
WNW	4	4	97	184	167	88	26	3	0	0	0	573
NW	4	5	123	159	113	35	11	0	0	0	0	450
NNW	1	11	75	49	10	2	0	0	0	0	0	148
TOTAL	13	41	610	783	514	201	43	3	0	0	0	2208

1993 WIND FREQUENCY DISTRIBUTION (hours): FOURTH QUARTER
WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	53	36	109	20	7	0	0	0	0	0	0	225
NNE	14	16	42	10	3	0	0	1	0	0	0	86
NE	7	17	36	13	1	2	0	2	1	0	0	79
ENE	21	19	28	8	4	2	0	0	0	0	1	83
E	17	12	30	9	4	0	0	0	0	0	0	72
ESE	6	13	39	19	4	0	0	0	0	0	0	81
SE	16	4	28	15	4	0	0	0	0	0	0	67
SSE	5	4	22	18	3	1	1	0	0	0	0	54
S	6	8	36	41	9	0	2	0	0	0	0	102
SSW	1	9	21	30	6	2	0	0	0	0	0	69
SW	6	5	24	44	16	4	0	0	0	0	0	99
WSW	1	6	15	29	18	7	5	2	0	0	0	83
W	6	8	13	18	16	6	2	3	3	0	0	75
WNW	28	12	60	89	85	41	16	8	3	2	0	344
NW	56	42	112	79	84	36	8	1	0	0	0	418
NNW	73	34	119	30	11	3	1	0	0	0	0	271
TOTAL	316	245	734	472	275	104	35	17	7	2	1	2208

1994 WIND FREQUENCY DISTRIBUTION (hours): ANNUAL

WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	72	80	320	105	19	2	1	0	0	0	0	599
NNE	25	41	140	53	4	0	0	0	0	0	0	263
NE	28	32	115	43	8	1	1	0	0	0	0	228
ENE	30	37	105	28	5	3	4	0	0	0	0	212
E	19	42	125	37	4	2	2	0	0	0	0	231
ESE	31	32	119	67	28	5	1	2	2	0	0	287
SE	11	30	64	55	34	4	2	3	3	0	1	207
SSE	4	10	79	109	43	10	9	5	2	2	3	276
S	9	20	148	274	127	39	19	11	5	4	5	661
SSW	5	7	139	263	154	55	9	2	1	0	0	635
SW	7	27	151	233	205	60	12	3	0	0	0	698
WSW	5	17	105	143	105	44	3	3	0	0	0	425
W	8	18	86	112	111	71	29	13	0	0	0	448
WNW	43	45	333	397	377	245	101	32	10	0	0	1583
NW	60	80	382	327	269	174	58	11	3	0	0	1364
NNW	86	80	311	102	44	13	5	1	0	1	0	643
TOTAL	443	598	2722	2348	1537	728	256	86	26	7	9	8760

AVERAGE ANNUAL WIND SPEED (M/S) = 3.202

1994 WIND FREQUENCY DISTRIBUTION (hours): FIRST QUARTER

WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	32	21	83	38	12	1	0	0	0	0	0	187
NNE	10	11	18	19	3	0	0	0	0	0	0	61
NE	11	11	25	19	4	1	1	0	0	0	0	72
ENE	5	13	31	12	1	3	4	0	0	0	0	69
E	5	16	41	16	3	2	0	0	0	0	0	83
ESE	17	12	42	26	18	4	1	1	2	0	0	123
SE	5	16	21	20	21	3	1	3	3	0	1	94
SSE	3	2	18	27	15	3	3	3	2	2	3	81
S	2	10	27	44	22	8	9	8	5	4	5	144
SSW	3	5	21	33	20	10	2	1	0	0	0	95
SW	0	9	18	30	34	8	3	1	0	0	0	103
WSW	3	8	19	26	15	10	1	1	0	0	0	83
W	3	5	13	12	16	15	6	1	0	0	0	71
WNW	26	15	60	70	77	62	22	7	1	0	0	340
NW	42	25	85	67	67	52	20	5	1	0	0	364
NNW	37	19	80	31	15	4	2	1	0	1	0	190
TOTAL	204	198	602	490	343	186	75	32	14	7	9	2160

1994 WIND FREQUENCY DISTRIBUTION (hours): SECOND QUARTER
WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	4	9	52	19	1	0	0	0	0	0	0	85
NNE	2	10	23	4	0	0	0	0	0	0	0	39
NE	2	5	23	2	0	0	0	0	0	0	0	32
ENE	3	5	20	5	1	0	0	0	0	0	0	34
E	3	3	20	7	0	0	0	0	0	0	0	33
ESE	5	5	15	10	5	0	0	0	0	0	0	40
SE	3	3	13	17	2	0	0	0	0	0	0	38
SSE	0	0	28	32	8	2	1	0	0	0	0	71
S	1	1	48	87	49	16	7	1	0	0	0	210
SSW	1	1	51	120	56	21	4	0	0	0	0	254
SW	3	5	67	92	78	23	7	2	0	0	0	277
WSW	0	3	38	54	48	9	1	2	0	0	0	155
W	1	5	29	45	39	17	9	3	0	0	0	148
WNW	3	8	116	115	100	47	25	7	8	0	0	429
NW	2	13	80	61	55	31	11	3	1	0	0	257
NNW	6	7	43	12	10	2	2	0	0	0	0	82
TOTAL	39	83	666	682	452	168	67	18	9	0	0	2184

1994 WIND FREQUENCY DISTRIBUTION (hours): THIRD QUARTER
WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	1	4	76	36	2	0	1	0	0	0	0	120
NNE	3	7	55	20	1	0	0	0	0	0	0	86
NE	3	6	23	5	0	0	0	0	0	0	0	37
ENE	1	4	14	2	0	0	0	0	0	0	0	21
E	1	3	9	3	0	0	0	0	0	0	0	16
ESE	1	1	9	0	0	0	0	0	0	0	0	11
SE	0	2	8	3	0	0	0	0	0	0	0	13
SSE	0	2	16	22	5	0	0	0	0	0	0	45
S	0	4	33	92	38	11	2	1	0	0	0	181
SSW	1	0	36	68	59	14	0	1	1	0	0	180
SW	1	11	42	72	72	22	0	0	0	0	0	220
WSW	0	2	23	35	30	15	0	0	0	0	0	105
W	1	2	22	34	44	24	4	3	0	0	0	134
WNW	2	12	90	127	127	91	38	6	0	0	0	493
NW	4	18	110	131	89	58	17	0	0	0	0	427
NNW	3	13	58	34	8	2	1	0	0	0	0	119
TOTAL	22	91	624	684	475	237	63	11	1	0	0	2208

1994 WIND FREQUENCY DISTRIBUTION (hours): FOURTH QUARTER

WIND SPEED (m/s) AT 20 FEET HEIGHT

SECTOR	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL
N	35	46	109	12	4	1	0	0	0	0	0	207
NNE	10	13	44	10	0	0	0	0	0	0	0	77
NE	12	10	44	17	4	0	0	0	0	0	0	87
ENE	21	15	40	9	3	0	0	0	0	0	0	88
E	10	20	55	11	1	0	2	0	0	0	0	99
ESE	8	14	53	31	5	1	0	1	0	0	0	113
SE	3	9	22	15	11	1	1	0	0	0	0	62
SSE	1	6	17	28	15	5	5	2	0	0	0	79
S	6	5	40	51	18	4	1	1	0	0	0	126
SSW	0	1	31	42	19	10	3	0	0	0	0	106
SW	3	2	24	39	21	7	2	0	0	0	0	98
WSW	2	4	25	28	12	10	1	0	0	0	0	82
W	3	6	22	21	12	15	10	6	0	0	0	95
WNW	12	10	67	85	73	45	16	12	1	0	0	321
NW	12	24	107	68	58	33	10	3	1	0	0	316
NNW	40	41	130	25	11	5	0	0	0	0	0	252
TOTAL	178	226	830	492	267	137	51	25	2	0	0	2208