

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

March 2006

Station: Westford
 Latitude: 44° 37' 39" N Longitude: 73° 02' 29" W Elevation (Ground): 850 feet Time Zone: Eastern

Date	Temperature					Humidity	Deq F	Days F	Precip Ty	Snow Cvr	Precip		Pressure			Wind						Sun					
	Maximum	Minimum	Average	Mean	Dew Point						Mean	Heating Base	Cooling Base	Water Equivalent	Ice Pellets	Adj. to Sea Level			Avg	Res	Res		Peak		Minute		Mean Index
																Maximum	Minimum	Mean					Speed	Dir	Speed	Dir		Speed	Dir
1	2	3	4A	4B	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
1	21.9	-1.2	10.3*	12.1	-2	54	55	0	.....	4	0.01	0.0	29.88	29.68	29.780	3.9	3.2	258	18	W	0	0				
2	29.5	14.9	22.2	21.7	8	56	43	0	.....	4	T	T	29.78	29.58	29.661	3.4	1.5	238	17	S	5	353				
3	15.9	6.3	11.1	12.3	3	67	54	0	.....	3	0.00	0.0	29.86	29.74	29.797	7.0	6.6	297	26	WNW	0	0				
4	26.1	15.9	21.0	20.1	14	77	44	0	.....	19	0.53	16.2	29.94	29.76	29.841	4.4	4.1	297	22	NW	0	0				
5	27.5	17.0	22.3	22.0	10	61	43	0	.....	9	0.00	0.0	30.01	29.94	29.985	2.8	2.7	323	20	NW	0	0				
6	31.0	13.5	22.3	20.8	11	67	43	0	.....	6	T	T	30.09	29.97	30.019	0.9	0.7	323	12	WNW	0	0				
7	29.8	11.9	20.8	19.6	11	70	44	0	.....	5	0.00	0.0	30.20	30.08	30.152	1.1	0.9	314	18	W	0	0				
8	33.4	8.8	21.1	22.2	10	63	44	0	.....	4	0.00	0.0	30.19	29.95	30.090	0.5	0.3	344	11	NE	0	0				
9	40.8	26.4	33.6	34.4	25	70	32	0	.....	3	0.33	T	29.95	29.65	29.808	4.3	4.1	164	25	SSE	0	0				
10	52.0	36.9	44.5	44.2	39	81	21	0	.....	0	0.06	0.0	29.90	29.38	29.538	7.5	5.3	210	27	WNW	0	0				
11	48.8	33.1	40.9	39.4	28	64	24	0	.....	0	0.00	0.0	30.22	29.90	30.120	2.8	2.4	282	17	WNW	0	0				
12	51.0	29.7	40.4	42.7	34	74	25	0	.2.....	0	0.11	0.0	30.20	29.82	29.961	5.0	4.8	192	29	SSW	0	0					
13	52.0	34.9	43.5	42.9	42	97	22	0	.2.....	0	0.36	0.0	29.93	29.34	29.696	1.6	1.1	172	18	SSE	0	0					
14	53.9	27.0	40.5	41.1	31	70	25	0	.....	0	0.18	T	29.40	29.19	29.308	10.0	8.6	239	35	WSW	0	0				
15	27.2	20.2	23.7	24.0	15	68	42	0	.....	1	0.09	1.2	29.75	29.35	29.532	8.5	7.9	284	29	W	0	0				
16	26.0	17.2	21.6	21.3	14	72	44	0	.....	2	0.23	2.3	29.97	29.75	29.885	5.5	5.2	298	24	WNW	0	0				
17	21.0	13.6	17.3	17.5	6	61	48	0	.....	2	T	T	30.03	29.94	29.992	3.5	3.4	311	20	NW	0	0				
18	20.6	11.7	16.2	16.1	7	67	49	0	.....	1	0.06	0.4	29.96	29.85	29.896	3.5	3.4	301	18	WNW	0	0				
19	23.2	12.4	17.8	17.9	11	74	48	0	.....	1	0.05	1.3	29.94	29.82	29.866	3.3	2.9	298	25	WNW	0	0				
20	21.0	12.4	16.7	16.7	7	66	49	0	.....	1	0.01	0.1	30.04	29.91	29.996	5.3	5.0	294	21	W	0	0				
21	30.9	18.9	24.9	23.7	14	66	40	0	.....	1	T	T	29.91	29.71	29.793	3.4	3.1	288	18	WNW	0	0				
22	35.0	23.6	29.3	28.3	20	71	36	0	.....	T	0.00	0.0	29.99	29.69	29.837	1.8	1.6	315	13	WNW	0	0				
23	45.5	27.5	36.5	34.8	26	70	28	0	.....	0	T	T	30.10	29.98	30.051	1.2	0.6	288	12	N	0	0				
24	45.5	33.1	39.3	37.9	32	80	26	0	.....	0	T	T	30.09	29.96	30.037	0.5	0.4	291	10	WNW	0	0				
25	43.3	32.1	37.7	37.2	32	82	28	0	.....	0	T	0.0	29.97	29.90	29.932	0.8	0.2	20	10	S	0	0				
26	41.1	29.1	35.1	35.2	25	68	30	0	.....	0	T	T	29.97	29.88	29.919	2.1	1.8	325	19	NW	0	0				
27	43.9	28.2	36.1	35.5	19	51	29	0	.....	0	0.00	0.0	30.14	29.97	30.079	2.6	2.5	315	19	NW	0	0				
28	51.4	26.0	38.7	39.0	18	47	27	0	.....	0	0.00	0.0	30.20	30.10	30.151	1.0	0.4	292	14	W	0	0				
29	56.7	29.3	43.0	43.2	18	38	22	0	.....	0	0.00	0.0	30.20	30.12	30.162	2.0	1.5	278	19	WNW	0	0				
30	60.7	34.3	47.5	47.9	22	38	18	0	.....	0	0.00	0.0	30.27	30.12	30.190	2.0	1.5	221	14	SSW	0	0				
31	71.3*	41.8	56.6*	57.7	31	37	9	0	.....	0	0.00	0.0	30.13	29.75	29.957	5.4	5.3	190	22	SSW	0	0				
Sum	Sum	-----	-----	---	----	Ttl	Ttl						For the month:										---				
1178	687					1092	0	Number of Days			2.02	21.5	30.27	29.19	29.904	3.5	2.1	269	35	WSW	5	353					
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl	Date	Date	-----	----	----	---	---	---	Date	Date	Avg						
38.0	22.1	30.1	30.0	19	65.4	----	----	≥.01 inch		12	8.94	102.7	30	14	-----	----	----	---	---	---	14	2					
Number of Days						Season to Date	Snow, Ice ≥1.0 inch	4	Greatest in 24 Hours and Dates					Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date													
Max Temperature			Min Temperature			6454	0	Thunder	0	Precipitation		Snow, Ice Plts															
≥ 90°F	< 32°F	< 32°F	< 0°F	----	----	Heavy Fog	2	0.00	-	16.2	4	19		4													
0	14	25	1	----	----	Clear	9	Partly Cloudy		7	Cloudy		15														

NOTES:
 Units are: Temperature=°F, Wind=mph, Pressure=Inches Hg, Precipitation=inches.
 Data in column 4A are (MAX+MIN) ÷ 2, whereas columns 4B, 5, 6, 15, 16, 23 are means via continuous observations for 24 hours.
 Column 5: Dew point is calculated from temperature and humidity and is continuously averaged for 24 hours.
 Data in columns 9, 10, 12 are entered manually by the station observer.
 Columns 17-18: Resultant wind is calculated by the vector sum of continuous wind observations.
 Column 23: Sunshine index is measured in Watts/m² and is continuously averaged for 24 hours.
 Data in columns 4B, 5, 6, 15, 16, 23 are updated continuously, there by achieving a "true" mean.

OBSERVATIONS AT 3-HOUR INTERVALS
March 2006: Westford

Hour	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Wind			Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Wind			Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Wind		
							Direction	Speed	Gust							Direction	Speed	Gust							Direction	Speed	Gust
MAR 01																											
01		29.70	0.00	8	0	71	29	4	13		29.72	0.00	21	5	50	22	1	4		29.78	0.00	15	8	75	31	2	7
04		29.77	0.00	5	-4	67	31	1	5		29.66	0.00	20	7	56	20	6	12		29.79	0.00	12	3	67	31	5	12
07		29.85	0.00	-1	-6	76	00	0	0		29.63	0.00	20	10	64	20	6	12		29.84	0.00	9	-4	56	31	6	11
10		29.87	0.00	6	-8	52	31	7	13		29.62	0.00	25	9	51	24	4	8		29.85	0.00	7	-4	59	29	11	19
13		29.79	0.00	14	-6	40	24	5	14		29.58	0.00	29	8	39	00	3	8		29.77	0.00	14	-4	44	29	10	17
16		29.76	0.00	20	-1	40	20	6	14		29.58	0.00	26	12	53	33	4	8		29.78	0.00	12	7	80	29	8	17
19		29.77	0.00	21	2	42	24	3	8		29.71	0.00	19	8	64	00	3	10		29.80	0.00	14	8	77	29	9	18
22		29.75	0.00	21	4	47	24	4	8		29.77	0.00	16	4	60	00	2	7		29.78	0.00	16	10	76	29	8	18
MAR 02																											
MAR 03																											
MAR 04																											
MAR 05																											
MAR 06																											
MAR 07																											
MAR 08																											
MAR 09																											
MAR 10																											
MAR 11																											
MAR 12																											
MAR 13																											
MAR 14																											
MAR 15																											
MAR 16																											
MAR 17																											
MAR 18																											

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ended: Date	01	01	01	01	01	01	01	01	01	01	01	01
Ended: Time	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000

The precipitation amounts may occur at any time during the month. The time indicated is the ending time of the interval. Date and time are not entered for trace amounts.

OBSERVATIONS AT 3-HOUR INTERVALS
March 2006: Westford

Hour	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Wind			Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Wind			Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Wind		
							Direction	Speed	Gust							Direction	Speed	Gust							Direction	Speed	Gust
MAR 19									MAR 20									MAR 21									
01		29.85	0.00	17	9	71	29	3	8	29.96	0.00	15	9	79	31	1	5	29.89	0.00	20	9	64	27	7	12		
04		29.84	0.00	13	6	73	22	1	3	29.97	0.00	14	8	77	31	4	12	29.84	0.00	20	11	68	29	2	6		
07		29.85	0.00	16	10	76	22	1	3	30.03	0.00	14	8	76	31	5	11	29.87	0.00	20	12	69	29	6	12		
10		29.85	0.00	19	9	65	29	4	10	30.03	0.00	16	7	65	31	7	17	29.81	0.00	22	14	69	29	3	6		
13		29.83	0.00	21	13	70	31	2	5	30.01	0.00	19	7	61	29	6	12	29.74	0.00	27	16	62	31	2	5		
16		29.84	0.00	21	15	77	00	3	9	30.01	0.00	20	6	54	31	6	14	29.72	0.00	30	16	56	31	4	10		
19		29.90	0.00	19	14	80	29	4	7	30.00	0.00	18	5	57	27	4	8	29.75	0.00	26	16	67	33	0	2		
22		29.94	0.00	16	12	85	00	0	2	29.94	0.00	20	7	57	27	7	11	29.74	0.00	25	17	70	00	0	0		
MAR 22									MAR 23									MAR 24									
01		29.71	0.00	24	17	75	00	0	0	29.98	0.00	28	21	72	20	2	5	30.08	0.00	36	29	77	00	0	0		
04		29.71	0.00	24	17	74	00	0	0	30.01	0.00	29	20	70	18	0	2	30.05	0.00	34	29	82	00	0	0		
07		29.78	0.00	25	21	87	29	0	2	30.04	0.00	29	22	74	20	0	2	30.08	0.00	34	30	86	00	0	0		
10		29.82	0.00	29	22	76	31	1	3	30.08	0.00	33	24	69	27	1	3	30.08	0.00	39	33	79	02	0	1		
13		29.83	0.00	33	22	63	00	2	8	30.06	0.00	41	28	60	31	1	7	30.03	0.00	45	35	68	22	1	5		
16		29.88	0.00	33	20	58	29	4	6	30.04	0.00	45	31	58	33	2	7	30.00	0.00	44	34	69	31	3	6		
19		29.96	0.00	29	19	65	31	2	5	30.09	0.00	37	30	75	00	0	0	30.01	0.00	38	33	84	00	0	0		
22		29.99	0.00	29	19	67	27	0	1	30.09	0.00	35	31	85	02	0	2	29.99	0.00	35	32	89	00	0	0		
MAR 25									MAR 26									MAR 27									
01		29.95	0.00	35	32	90	00	0	0	29.90	0.00	34	30	82	00	1	6	29.98	0.00	33	17	50	33	1	4		
04		29.93	0.00	35	32	88	20	1	2	29.89	0.00	30	28	92	00	0	0	30.00	0.00	29	15	56	00	1	5		
07		29.96	0.00	35	32	89	18	0	2	29.93	0.00	32	28	86	00	1	7	30.06	0.00	30	16	54	29	6	11		
10		29.96	0.00	38	34	85	00	1	6	29.92	0.00	39	29	68	33	3	7	30.10	0.00	38	16	41	31	4	8		
13		29.92	0.00	42	31	65	02	2	7	29.91	0.00	38	25	59	00	3	10	30.10	0.00	43	22	43	31	5	8		
16		29.90	0.00	41	34	74	04	1	5	29.91	0.00	39	26	59	31	3	10	30.10	0.00	43	21	41	31	5	13		
19		29.92	0.00	38	31	74	00	3	7	29.93	0.00	35	21	56	29	0	2	30.14	0.00	35	21	57	02	0	1		
22		29.91	0.00	33	30	88	00	0	0	29.94	0.00	35	19	51	27	4	8	30.13	0.00	34	21	58	00	0	0		
MAR 28									MAR 29									MAR 30									
01		30.15	0.00	32	20	61	18	1	3	30.15	0.00	32	16	52	00	0	0	30.20	0.00	38	20	49	31	0	1		
04		30.16	0.00	29	21	72	13	1	2	30.15	0.00	30	14	51	00	0	0	30.21	0.00	37	23	57	18	0	1		
07		30.20	0.00	31	21	67	15	0	3	30.18	0.00	34	18	52	00	0	0	30.25	0.00	39	23	53	20	1	5		
10		30.20	0.00	45	22	40	18	3	6	30.18	0.00	50	19	28	27	4	9	30.26	0.00	52	24	34	22	5	10		
13		30.15	0.00	49	19	30	27	7	14	30.15	0.00	55	16	21	29	9	19	30.20	0.00	58	24	26	20	4	11		
16		30.11	0.00	51	15	24	33	3	7	30.12	0.00	55	18	23	27	8	13	30.13	0.00	60	20	21	22	1	6		
19		30.12	0.00	39	15	38	00	0	0	30.17	0.00	45	18	33	00	0	4	30.13	0.00	50	22	34	18	0	2		
22		30.13	0.00	36	17	46	00	0	0	30.19	0.00	41	19	41	00	0	0	30.15	0.00	47	22	37	18	2	6		
MAR 31																											
01		30.12	0.00	43	25	50	18	1	2																		
04		30.10	0.00	43	24	47	20	2	3																		
07		30.09	0.00	48	27	44	20	6	11																		
10		30.01	0.00	60	32	34	20	10	18																		
13		29.95	0.00	69	33	26	20	7	13																		
16		29.85	0.00	71	34	25	20	6	14																		
19		29.82	0.00	63	34	34	18	3	7																		
22		29.78	0.00	61	36	39	18	5	12																		

WEATHER NOTES

NOTES:
 Units are: Temperature=°F, Wind=mph, Pressure=Inches Hg, Precipitation=inches.
 Wind Direction: Directions are those from which the wind is blowing, indicated in tens of degrees from true north: i.e., 09 for East, 18 for South, 27 for West, and 00 or 36 for North.
 Wind Speed: The observed one-minute average speed in miles-per-hour.
 Wind Gust: The maximum instantaneous wind speed for the 10-minute period preceding the observation.
 Rainfall Rate: The instantaneous rainfall rate at the time of observation, calculated by timing consecutive 0.01" pulses from the electronic rain gauge and interpolating this rate for one hour.

SUMMARY BY HOUR

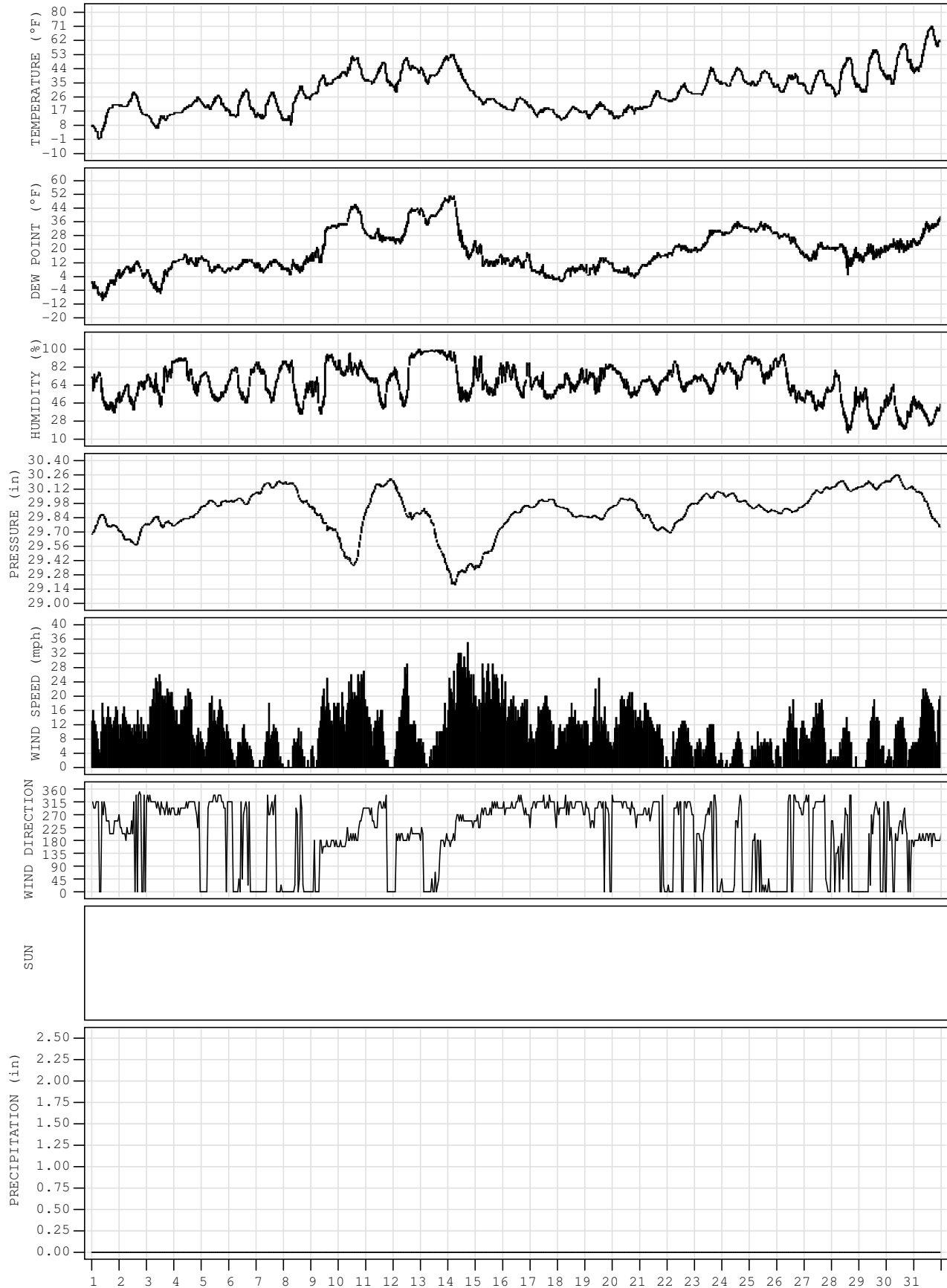
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01		29.907	27	19	72	2.0	26	1.3
04		29.897	25	18	73	2.1	25	1.2
07		29.924	26	17	71	2.9	27	2.0
10		29.925	31	18	62	5.1	27	3.2
13		29.887	35	19	55	5.1	28	3.2
16		29.874	35	20	57	4.4	29	2.4
19		29.909	31	19	64	3.1	27	2.1
22		29.914	29	20	69	2.4	26	1.7

HOURLY PRECIPITATION (Water Equivalent)
March 2006: Westford

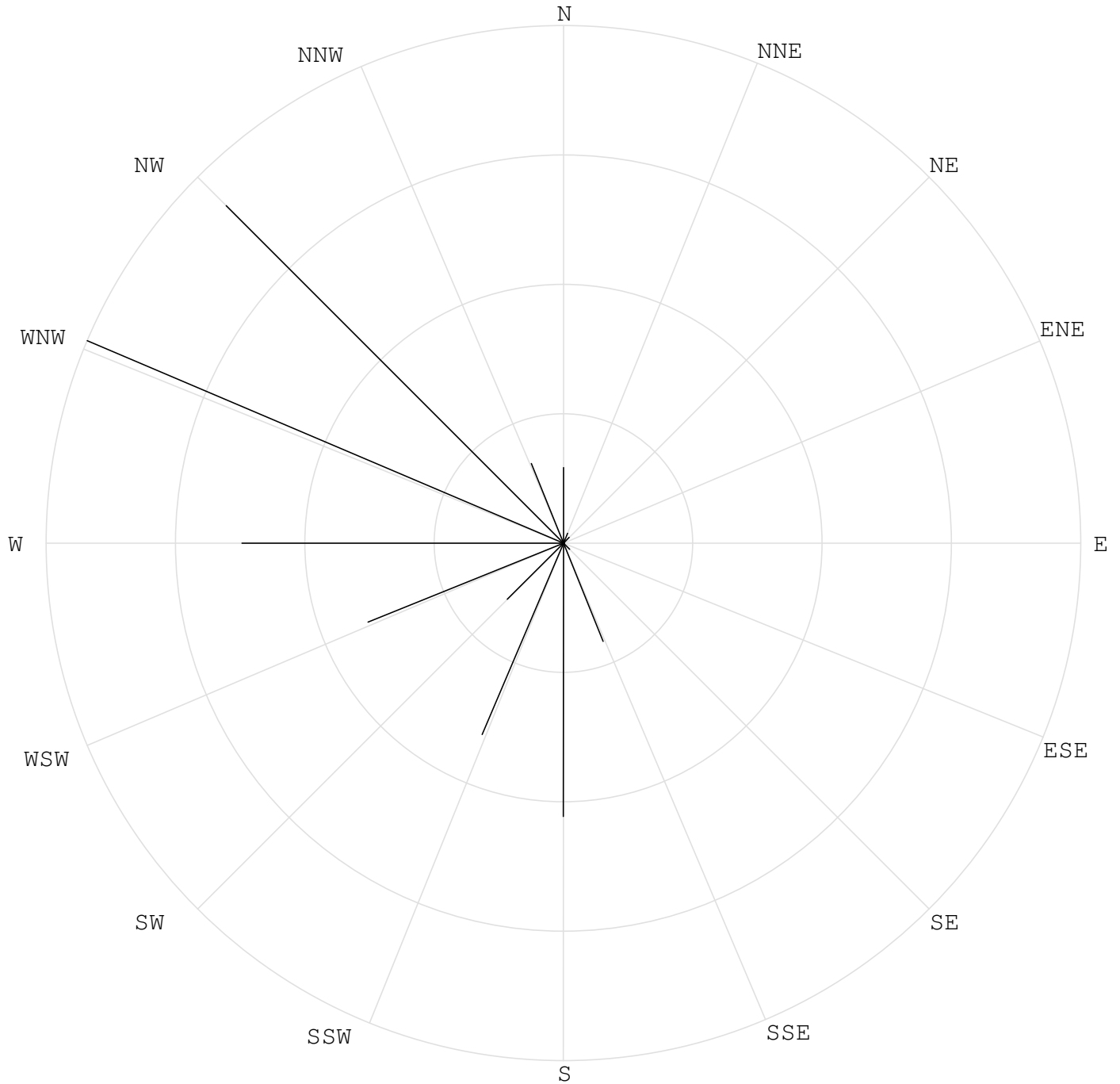
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01																								01	
02																									02
03																									03
04																									04
05																									05
06																									06
07																									07
08																									08
09																									09
10																									10
11																									11
12																									12
13																									13
14																									14
15																									15
16																									16
17																									17
18																									18
19																									19
20																									20
21																									21
22																									22
23																									23
24																									24
25																									25
26																									26
27																									27
28																									28
29																									29
30																									30
31																									31
Sum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Sum

During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOURLY-BY-HOURLY DATA
March 2006: Westford



Wind Rose: March 2006
Westford



Maximum direction of wind: 560.2 miles from 293°.
2582.5 total miles of wind.