

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

March 2007

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

Date	Temperature					Humidity Mean	Deg. Days		Precip Ty 1 fog 2 hvy fog 3 thunder 4 ice plt 5 hail 6 glaze 7 duststm 8 smk, hz 9 blw snw	Snow Cvr	Precip		Pressure Adj. to Sea Level			Wind						Sun Mean Index	
	Maximum	Minimum	Average	Mean	Dew Point		Heating Base 65°F	Cooling Base 65°F			Water Equivalent	Ice Pellets Snow	Maximum	Minimum	Mean	Avg Speed	Res Speed	Res Dir	Peak		Minute		
																			Speed	Dir	Speed		Dir	Speed	Dir
1	2	3	4A	4B	5	6	7	8		11	12	13	14	15	16	17	18	19	20	21	22	23	
1	29.4	5.6	17.5	18.8	3	50	47	0	.....	19	T	T	30.21	30.02	30.129	0.3	0.2	329	7	NW	1	3
2	34.4	19.9	27.2	28.5	24	84	38	0	.....	23	0.31	3.8	30.03	29.40	29.623	3.3	3.0	149	39	SSE	0	0
3	40.2	24.2	32.2	31.8	27	82	33	0	.....	20	0.02	0.5	29.58	29.43	29.512	3.7	2.9	217	22	S	16	190
4	31.8	21.4	26.6	27.2	20	75	38	0	.....	22	0.05	1.5	29.61	29.45	29.517	4.0	3.6	263	21	W	13	237
5	29.4	0.0	14.7	18.4	9	67	50	0	.....	20	T	0.1	29.90	29.42	29.580	8.1	6.1	269	35	W	20	297
6	0.3	-11.7*	-5.7*	-6.7	-25	42	71	0	.....	19	0.00	0.0	30.38	29.90	30.239	7.5	7.2	311	31	WNW	13	303
7	13.3	-10.3	1.5	2.4	-16	42	63	0	.....	19	0.00	0.0	30.36	30.05	30.207	2.5	2.1	222	19	WSW	9	242
8	10.9	-6.1	2.4	1.0	-13	53	62	0	.....	19	T	0.1	30.49	30.03	30.238	3.1	2.8	315	21	NNW	6	301
9	26.0	-11.5	7.3	8.7	-16	32	58	0	.....	19	0.00	0.0	30.54	30.20	30.417	2.7	2.5	186	25	SSE	15	205
10	40.5	25.4	32.9	34.0	21	60	32	0	.....	18	T	0.0	30.20	29.88	30.012	10.4	10.4	186	36	SSW	20	184
11	39.5	26.4	32.9	34.9	26	70	32	0	.....	16	0.00	0.0	30.20	29.97	30.092	3.2	2.7	287	19	NW	12	285
12	46.0	25.3	35.6	35.9	20	53	29	0	.....	14	0.00	0.0	30.19	30.03	30.116	5.0	4.8	193	21	SSW	5	207
13	49.6	36.2	42.9	44.0	22	42	22	0	.....	11	0.01	T	30.06	29.79	29.934	5.8	5.7	184	28	SSW	15	197
14	51.9*	45.8	48.9*	49.0	41	75	16	0	.....	6	0.55	0.0	29.80	29.63	29.715	7.7	7.6	184	26	S	9	181
15	48.6	18.1	33.3	34.7	28	77	31	0	.....	2	0.46	T	30.38	29.69	29.982	3.5	2.9	309	21	NW	11	317
16	23.5	11.7	17.6	17.9	5	59	47	0	.....	5	0.17	2.7	30.44	30.07	30.344	1.9	1.8	355	13	N	5	354
17	21.8	15.9	18.8	18.6	15	87	46	0	.....	16	0.96	12.5	30.08	29.60	29.720	3.1	2.9	323	17	NW	10	293
18	27.0	15.4	21.2	20.2	10	67	44	0	.....	16	0.13	3.0	29.99	29.58	29.725	6.8	6.6	285	27	WNW	19	292
19	31.0	10.0	20.5	24.0	7	49	44	0	.....	13	T	T	30.19	29.84	30.052	6.8	5.6	191	32	S	16	182
20	32.1	10.9	21.5	20.6	7	57	43	0	.....	12	T	T	30.71	29.80	30.228	7.0	3.9	275	33	S	9	303
21	36.9	3.5	20.2	22.1	-4	34	44	0	.....	11	0.00	0.0	30.77	30.21	30.576	5.6	5.4	187	31	S	19	186
22	50.2	34.3	42.3	42.7	32	68	23	0	.....	5	0.01	0.0	30.21	29.70	29.893	13.0	13.0	182	40	S	16	188
23	44.6	29.8	37.2	38.9	31	73	27	0	.....	1	0.00	0.0	30.23	29.84	30.044	3.3	2.5	270	19	WSW	5	359
24	47.3	25.0	36.1	35.3	25	70	29	0	.....	T	0.03	0.0	30.34	30.17	30.253	0.7	0.3	286	14	WSW	8	291
25	45.4	29.3	37.4	36.0	27	74	28	0	.....	T	0.03	0.1	30.44	30.21	30.368	1.1	0.7	280	11	W	7	284
26	43.1	34.1	38.6	39.3	34	82	26	0	.....	T	0.32	0.0	30.37	29.86	30.105	9.2	9.0	181	32	S	16	191
27	48.2	40.8	44.5	44.0	44	98	20	0	.2.....	0	0.06	0.0	30.07	29.84	29.931	2.2	1.5	192	20	S	3	300	
28	44.9	30.3	37.6	35.6	20	57	27	0	.....	0	0.00	0.0	30.39	30.07	30.264	5.9	5.7	318	29	WNW	0	0
29	42.5	23.8	33.1	33.0	9	36	31	0	.....	0	0.00	0.0	30.51	30.37	30.436	4.7	4.4	332	24	N	8	308
30	46.5	28.7	37.6	37.8	16	41	27	0	.....	0	0.00	0.0	30.37	30.14	30.236	4.0	2.8	295	28	NW	7	320
31	45.8	21.8	33.8	33.0	6	34	31	0	.....	0	0.00	0.0	30.31	30.19	30.241	1.5	1.2	309	19	W	8	281
Sum	Sum	-----	-----	---	----	Ttl	Ttl			For the month:												---	
1123	574					1159	0	Number of Days		3.11	24.3	30.77	29.40	30.056	4.8	2.3	234	40	S	20	184		
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl	Date	Date	-----	----	----	---	Date	Date	Avg				
36.2	18.5	27.4	27.8	15	61.1	----	----	≥.01 inch	14	10.17	92.4	21	2	-----	----	----	---	22	10				
Number of Days							Season to Date	Snow, Ice ≥1.0 inch	5	Greatest in 24 Hours and Dates					Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date								
Max Temperature			Min Temperature			6831	0	Thunder	0	Precipitation			Snow, Ice Plts										
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	1	0.36	26-27	12.5	17	23		2									
0	12	26	5	----	----	Clear	6	Partly Cloudy			12	Cloudy		13									

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 2007: Westford

Hour	MAR 01									MAR 02									MAR 03								
	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust
01																											
04																											
07																											
10																											
13																											
16																											
19																											
22																											
MAR 04									MAR 05									MAR 06									
01																											
04																											
07																											
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MAR 07									MAR 08									MAR 09									
01																											
04																											
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16																											
19																											
22																											
MAR 10									MAR 11									MAR 12									
01																											
04																											
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16																											
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22																											
MAR 13									MAR 14									MAR 15									
01																											
04																											
07																											
10																											
13																											
16																											
19																											
22																											
MAR 16									MAR 17									MAR 18									
01																											
04																											
07																											
10																											
13																											
16																											
19																											
22																											

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.04	0.06	0.08	0.09	0.12	0.15	0.19	0.21	0.21	0.21	0.21	0.21
Ended: Date	26	26	26	26	26	26	26	26	26	26	26	26
Ended: Time	2130	2130	2130	2130	2140	2155	2210	2220	2220	2220	2220	2220

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 2007: Westford

Hour	MAR 19									MAR 20									MAR 21								
	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust
01	30.01	0.00	21	0	40	29	6	14	29.81	0.00	31	25	79	18	11	21	30.71	0.00	10	-8	44	00	1	3			
04	30.10	0.00	18	-1	43	29	4	10	29.81	0.00	32	29	91	20	8	14	30.72	0.00	6	-6	57	00	0	0			
07	30.17	0.00	11	-2	56	00	0	0	29.94	0.00	29	19	65	27	6	13	30.75	0.00	5	-9	53	20	4	7			
10	30.17	0.00	23	-1	35	18	6	11	30.16	0.00	17	2	50	31	10	21	30.74	0.00	18	-6	33	20	5	10			
13	30.13	0.00	29	4	34	20	8	14	30.33	0.00	14	-3	47	29	10	18	30.62	0.00	30	-5	21	20	5	10			
16	30.02	0.00	30	13	49	15	9	19	30.43	0.00	19	1	43	31	4	10	30.47	0.00	35	-7	16	18	12	25			
19	29.95	0.00	31	16	53	18	13	22	30.55	0.00	15	-2	47	31	5	11	30.38	0.00	35	-1	21	18	5	12			
22	29.88	0.00	30	23	74	18	14	28	30.66	0.00	13	-7	40	31	4	8	30.30	0.00	35	4	26	18	15	26			
MAR 22									MAR 23									MAR 24									
01	30.17	0.00	36	15	42	18	14	26	29.86	0.00	44	39	82	22	5	9	30.25	0.00	31	23	74	00	0	0			
04	30.07	0.00	35	25	65	18	16	30	29.90	0.00	40	35	83	24	6	8	30.28	0.00	25	21	84	00	0	0			
07	30.00	0.00	38	28	69	18	15	33	29.99	0.00	38	33	82	22	4	10	30.32	0.00	28	22	78	18	1	2			
10	29.92	0.00	41	32	71	18	15	32	30.04	0.00	38	32	79	27	4	8	30.33	0.00	40	24	53	00	1	5			
13	29.79	0.00	48	35	60	18	16	29	30.07	0.00	40	32	71	31	3	7	30.28	0.00	46	21	37	00	1	6			
16	29.70	0.00	50	37	60	18	13	21	30.08	0.00	42	27	55	33	6	11	30.19	0.00	42	24	50	27	1	4			
19	29.73	0.00	47	40	78	18	7	13	30.16	0.00	38	25	60	00	2	7	30.19	0.00	37	33	85	00	0	0			
22	29.80	0.00	47	43	88	20	8	16	30.22	0.00	33	24	69	00	0	0	30.21	0.00	33	32	96	04	2	6			
MAR 25									MAR 26									MAR 27									
01	30.24	0.00	32	31	97	00	0	0	30.35	0.00	35	28	76	18	3	6	29.85	0.00	42	41	94	18	9	14			
04	30.27	0.00	32	31	97	00	0	0	30.28	0.00	36	29	77	18	6	12	29.84	0.00	42	41	98	18	5	8			
07	30.36	0.00	30	29	97	00	0	0	30.24	0.00	36	30	76	20	8	15	29.87	0.00	42	42	99	15	1	3			
10	30.44	0.00	32	27	81	00	0	0	30.16	0.00	41	33	72	18	13	28	29.91	0.00	44	43	99	00	0	0			
13	30.43	0.00	41	27	57	22	2	7	30.09	0.02	39	37	92	18	13	25	29.92	0.00	46	45	99	00	0	0			
16	30.41	0.00	44	25	48	29	2	6	29.97	0.00	43	38	85	18	11	22	29.98	0.00	44	44	99	29	0	2			
19	30.40	0.00	42	24	48	00	0	0	29.92	0.00	42	38	83	18	12	21	30.00	0.00	45	45	99	20	2	3			
22	30.39	0.00	36	27	71	18	1	3	29.87	0.01	42	40	93	18	13	26	30.02	0.00	48	47	97	22	1	2			
MAR 28									MAR 29									MAR 30									
01	30.09	0.00	43	39	86	31	8	19	30.41	0.00	29	2	31	00	4	13	30.36	0.00	34	11	38	29	0	2			
04	30.16	0.00	35	31	85	31	3	8	30.44	0.00	26	2	36	33	4	10	30.31	0.00	31	14	48	24	0	2			
07	30.22	0.00	30	26	83	31	2	7	30.49	0.00	24	4	41	33	4	11	30.28	0.00	32	11	40	18	1	3			
10	30.28	0.00	34	23	64	31	4	10	30.51	0.00	30	5	34	00	4	11	30.24	0.00	43	9	25	22	6	12			
13	30.32	0.00	36	19	51	29	12	21	30.48	0.00	37	12	35	33	6	13	30.20	0.00	44	25	47	29	10	19			
16	30.32	0.00	39	10	29	31	10	21	30.40	0.00	42	15	33	31	7	16	30.17	0.00	45	26	48	31	10	20			
19	30.33	0.00	37	10	32	31	8	17	30.39	0.00	40	15	36	31	2	6	30.16	0.00	43	21	41	29	6	12			
22	30.36	0.00	33	11	40	00	4	10	30.39	0.00	37	12	35	31	7	14	30.20	0.00	35	12	38	00	2	8			
MAR 31																											
01	30.22	0.00	29	6	37	00	4	11																			
04	30.23	0.00	25	7	45	00	1	5																			
07	30.27	0.00	23	9	55	00	0	2																			
10	30.29	0.00	33	6	32	31	3	6																			
13	30.27	0.00	40	7	25	22	4	7																			
16	30.22	0.00	44	1	16	24	2	7																			
19	30.20	0.00	44	3	18	00	0	0																			
22	30.22	0.00	31	9	38	00	0	0																			

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

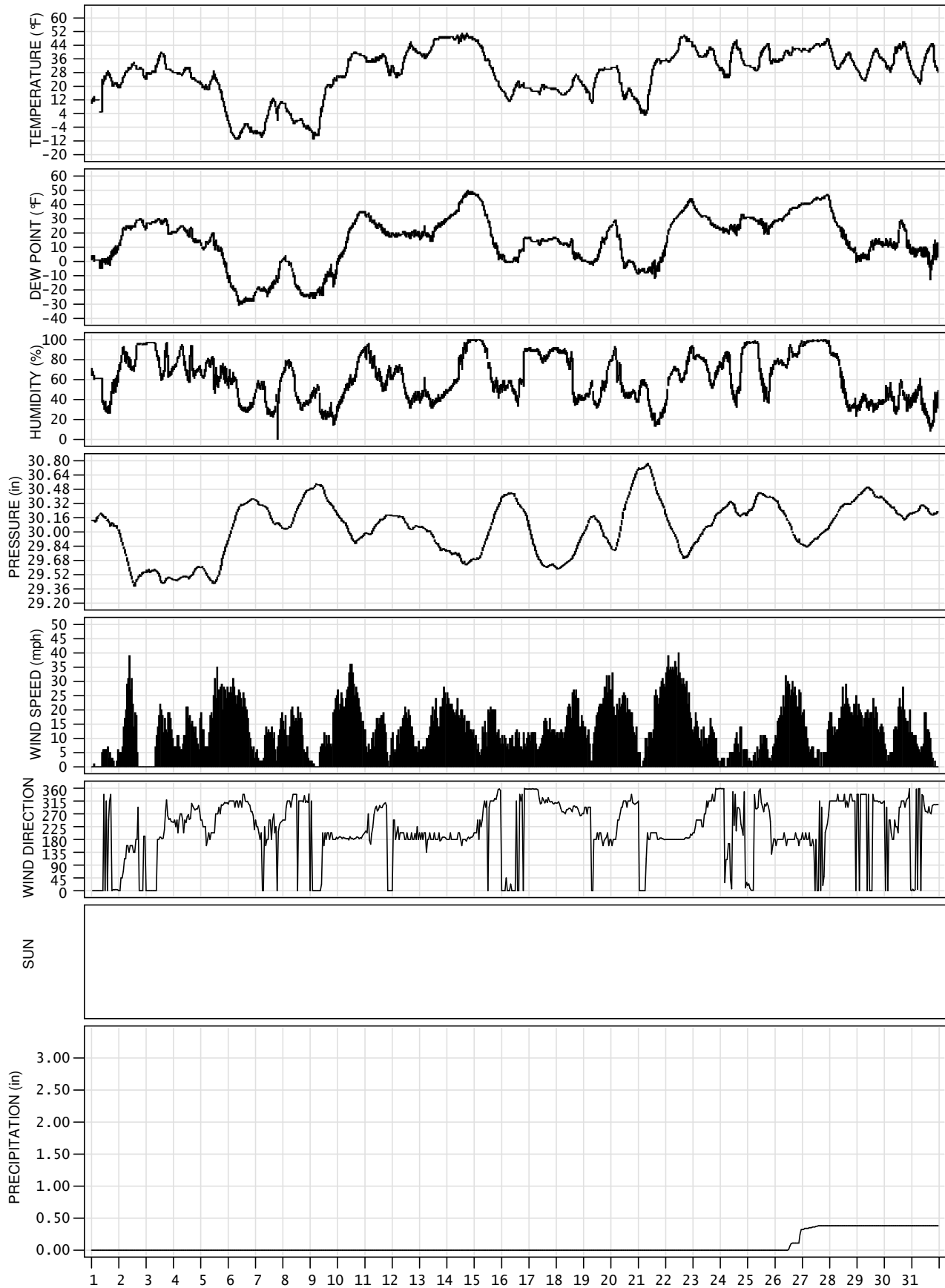
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01		30.059	26	15	65	3.9	23	1.7
04		30.050	24	15	70	3.4	22	1.7
07		30.069	23	14	70	3.5	22	2.0
10		30.077	28	13	58	5.8	22	3.0
13		30.048	31	15	52	6.9	24	3.3
16		30.029	33	15	52	6.2	26	2.9
19		30.049	30	15	57	4.4	23	2.3
22		30.065	28	15	62	4.4	22	2.5

HOURLY PRECIPITATION (Water Equivalent) March 2007: Westford

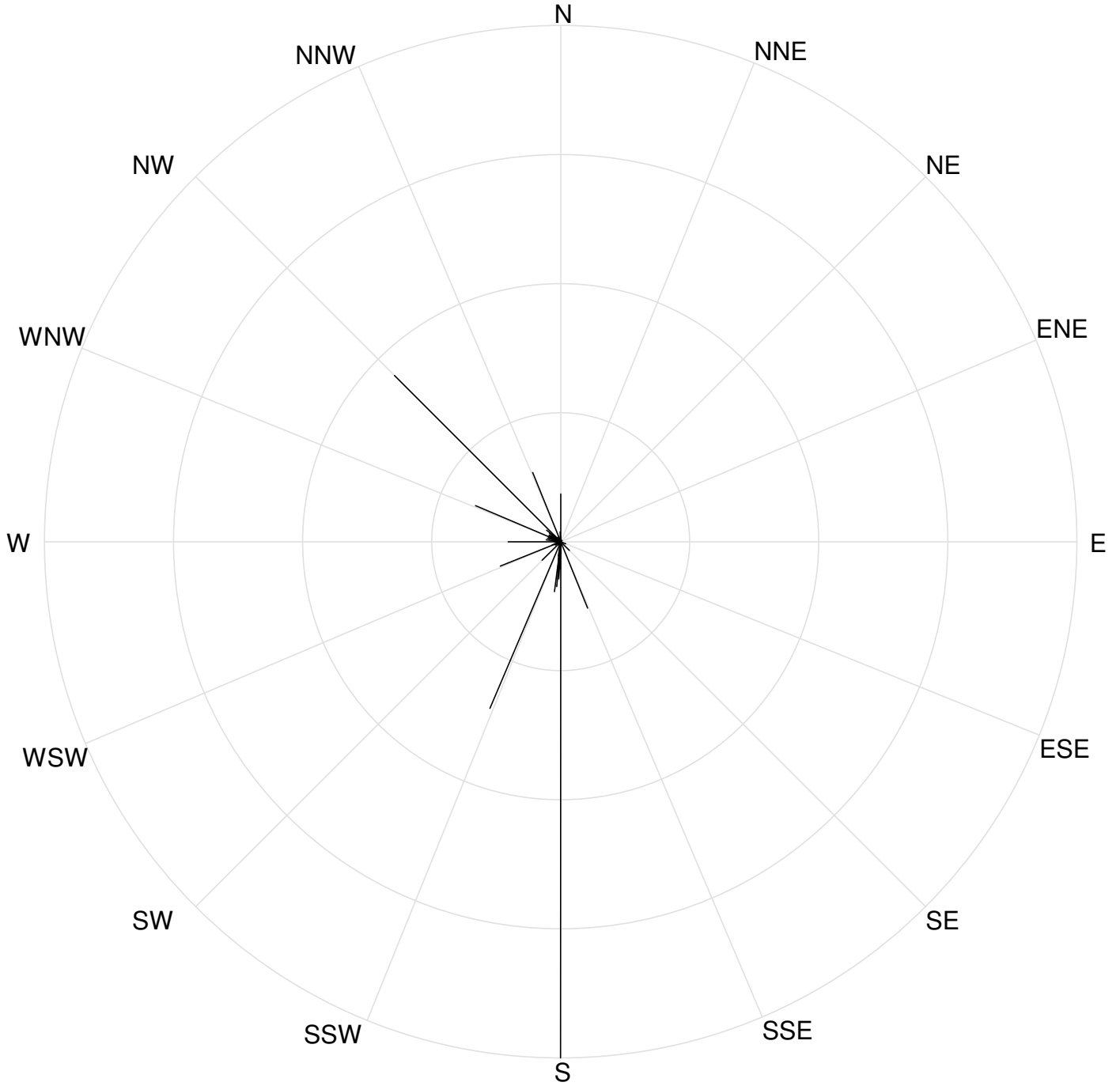
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date	
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12		
01																								01		
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23																									23	
24																									24	
25																									25	
26		0.02				0.01			0.01			0.01	0.05	0.04	0.01						0.14	0.07		26		
27												0.01		0.01										27		
28																								28		
29																								29		
30																								30		
31																								31		
Sum	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.02	0.05	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.07	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.)

HOUR-BY-HOUR DATA March 2007: Westford



Wind Rose: March 2007
Westford



Maximum direction of wind: 854.5 miles from 180°.
3544.7 total miles of wind.