

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

February 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	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	26.6	10.5	18.6	20.4	10	64	46	0	.....	8	0.00	0.0	29.94	29.81	29.868	4.6	4.3	183	24	S	2	180
2	33.8	16.2	25.0*	25.9	18	72	40	0	.....	11	0.30	3.0	29.81	29.44	29.622	2.2	1.2	187	16	SSW	0	0
3	27.5	10.5	19.0	17.6	6	62	45	0	.....	11	0.03	0.5	29.76	29.45	29.654	5.6	4.9	240	27	W	0	0
4	14.3	4.8	9.6	10.3	-5	51	55	0	.....	10	T	T	29.85	29.73	29.791	6.5	5.8	235	24	WSW	0	0
5	4.8	-4.6	0.1	0.6	-13	51	65	0	.....	10	0.00	0.0	29.95	29.80	29.866	6.3	5.7	276	29	W	0	0
6	16.4	0.5	8.4	7.6	-13	41	56	0	.....	10	0.00	0.0	29.98	29.85	29.934	4.8	4.5	258	21	W	0	0
7	12.8	0.9	6.9	7.1	-4	60	58	0	.....	10	T	T	29.85	29.69	29.777	3.1	2.5	246	21	WNW	0	0
8	15.1	6.0	10.6	10.3	0	64	54	0	.....	11	0.07	1.4	29.74	29.59	29.681	4.7	3.1	265	26	WNW	0	0
9	15.4	-0.6	7.4	6.2	-3	66	58	0	.....	12	0.10	1.0	29.87	29.57	29.762	3.7	3.0	284	18	W	0	0
10	21.1	6.0	13.6	13.5	4	67	51	0	.....	12	0.02	0.5	30.01	29.78	29.871	3.2	2.1	225	18	W	2	269
11	23.5	4.3	13.9	15.1	2	56	51	0	.....	11	0.00	0.0	30.11	29.97	30.030	3.6	3.3	193	17	S	3	191
12	20.5	-5.4	7.5	12.1	-2	54	57	0	.....	11	0.00	0.0	30.36	29.97	30.114	4.4	3.4	285	25	NW	0	0
13	4.5	-11.7*	-3.6*	-2.8	-19	45	69	0	.....	11	0.00	0.0	30.52	30.26	30.424	0.5	0.4	334	8	WNW	0	0
14	5.6	0.7	3.1	3.3	-3	74	61	0	.....	33	2.36	23.6	30.26	29.47	29.819	1.9	1.9	329	24	NW	9	320
15	6.3	-1.8	2.3	2.8	-9	59	63	0	.....	32	0.10	1.0	29.61	29.47	29.558	8.8	8.2	265	32	WNW	0	0
16	19.9	3.5	11.7	11.5	-1	58	53	0	.....	30	T	T	29.56	29.46	29.498	7.7	7.4	257	28	WNW	8	232
17	25.8	18.1	21.9	21.5	9	57	43	0	.....	28	0.00	0.0	29.64	29.56	29.609	6.4	6.1	244	24	WSW	12	270
18	22.9	2.2	12.5	15.8	8	71	52	0	.....	28	0.07	0.7	29.83	29.52	29.613	5.0	2.8	269	22	WNW	9	313
19	8.1	-10.0	-0.9	-1.5	-17	47	66	0	.....	27	0.00	0.0	30.08	29.80	29.979	3.2	2.8	311	21	NW	0	0
20	31.0	7.2	19.1	23.2	12	62	46	0	.....	25	T	T	29.80	29.57	29.633	5.6	5.2	183	29	SSW	1	358
21	26.9	16.2	21.6	21.2	11	67	43	0	.....	24	0.00	0.0	29.92	29.64	29.814	1.5	1.4	325	19	NW	0	0
22	35.0	12.1	23.6	21.9	13	71	41	0	.....	23	0.01	0.1	29.88	29.54	29.680	0.5	0.4	5	11	S	0	0
23	19.4	5.8	12.6	11.9	-0	58	52	0	.....	22	0.04	0.4	30.01	29.63	29.884	5.2	5.0	319	24	WNW	10	300
24	19.4	4.3	11.8	11.4	2	66	53	0	.....	22	0.03	0.5	30.21	30.01	30.113	3.0	2.9	317	19	NW	0	0
25	28.2	5.8	17.0	16.0	5	63	48	0	.....	21	0.00	0.0	30.23	29.91	30.115	0.4	0.3	353	10	NNE	0	0
26	32.5	6.5	19.5	18.5	4	56	45	0	.....	21	0.00	0.0	29.91	29.80	29.849	0.5	0.5	309	10	W	0	0
27	36.8*	7.6	22.2	19.9	7	60	42	0	.....	20	0.00	0.0	29.95	29.84	29.897	0.5	0.5	321	11	NW	0	0
28	28.7	12.3	20.5	21.4	10	61	44	0	.....	20	0.00	0.0	30.15	29.95	30.055	1.0	0.9	330	12	N	0	0
Sum	Sum	-----	-----	---	----	Ttl	Ttl						For the month:										---
583	128					1457	0	Number of Days			3.13	32.7	30.52	29.44	29.840	3.7	2.5	258	32	WNW	12	270	
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip			Season Ttl	Date	Date	-----	----	----	---	Date	Date	Avg			
20.8	4.6	12.7	13.0	1	60.1	----	----	≥.01 inch	11		7.06	68.1	13	2	-----	----	----	---	15	17			
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			5672	0	Thunder	0	Precipitation			Snow, Ice Plts										
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	0.00	-	23.6	14				33			14					
0	24	28	6	----	----	Clear	6	Partly Cloudy	13	Cloudy	9												

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
February 2007: Westford**

Hour	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					
FEB 01									FEB 02									FEB 03								
01	29.91	0.00	13	9	84	20	0	2	29.79	0.00	22	13	66	20	1	3	29.46	0.00	26	23	89	24	3	5		
04	29.91	0.00	17	11	76	18	3	10	29.77	0.00	25	15	66	18	4	7	29.53	0.00	22	13	70	27	11	21		
07	29.91	0.00	19	11	70	18	8	16	29.74	0.00	17	11	79	00	0	0	29.65	0.00	14	3	61	24	8	14		
10	29.91	0.00	21	8	57	18	8	18	29.68	0.00	28	15	57	20	1	3	29.71	0.00	17	4	55	24	7	14		
13	29.85	0.00	23	9	54	18	6	14	29.58	0.00	33	18	54	15	6	7	29.68	0.00	19	4	50	24	3	7		
16	29.81	0.00	26	9	48	18	9	12	29.50	0.00	31	17	56	00	0	0	29.68	0.00	18	12	80	18	2	6		
19	29.81	0.00	23	11	59	18	4	11	29.50	0.00	27	26	94	00	0	0	29.75	0.00	16	1	51	24	3	7		
22	29.82	0.00	20	11	69	00	0	0	29.47	0.00	27	26	95	20	4	7	29.75	0.00	12	-4	49	18	3	8		
FEB 04									FEB 05									FEB 06								
01	29.74	0.00	14	-0	52	20	5	14	29.80	0.00	3	-8	57	24	6	12	29.95	0.00	2	-13	48	29	7	13		
04	29.77	0.00	12	-1	54	22	9	18	29.80	0.00	2	-13	51	24	8	14	29.96	0.00	2	-12	51	22	6	13		
07	29.81	0.00	9	-7	48	20	4	10	29.83	0.00	0	-13	53	27	8	14	29.96	0.00	2	-12	52	24	3	8		
10	29.85	0.00	9	-6	49	18	5	12	29.88	0.00	-3	-14	60	31	6	12	29.97	0.00	7	-10	45	24	9	17		
13	29.79	0.00	12	-9	37	24	9	14	29.89	0.00	-2	-19	44	31	5	12	29.93	0.00	14	-18	22	29	7	13		
16	29.76	0.00	12	-6	45	24	8	16	29.87	0.00	1	-18	39	27	9	19	29.90	0.00	16	-20	18	29	5	11		
19	29.79	0.00	10	-8	44	24	7	14	29.89	0.00	2	-13	47	27	8	13	29.92	0.00	9	-17	28	20	1	3		
22	29.80	0.00	7	-9	46	24	14	21	29.92	0.00	3	-11	52	27	8	14	29.88	0.00	8	-5	54	22	3	8		
FEB 07									FEB 08									FEB 09								
01	29.82	0.00	7	-5	58	18	2	3	29.66	0.00	13	7	76	20	4	10	29.58	0.00	15	11	85	22	5	10		
04	29.80	0.00	5	-4	65	20	4	13	29.63	0.00	12	7	83	18	3	8	29.64	0.00	7	2	80	31	3	9		
07	29.79	0.00	1	-8	67	18	2	6	29.66	0.00	10	2	71	31	5	12	29.74	0.00	2	-8	64	29	5	11		
10	29.80	0.00	7	-6	54	24	7	14	29.72	0.00	7	-1	70	29	9	16	29.79	0.00	2	-9	57	29	5	14		
13	29.76	0.00	10	-6	47	27	7	13	29.72	0.00	9	-7	46	31	6	14	29.78	0.00	5	-3	69	29	5	10		
16	29.75	0.00	11	-5	48	27	6	12	29.72	0.00	11	-6	44	27	4	10	29.81	0.00	8	-6	52	31	3	7		
19	29.78	0.00	8	-1	62	00	0	0	29.71	0.00	10	-3	54	20	2	4	29.86	0.00	4	-5	64	00	0	0		
22	29.73	0.00	6	-1	72	00	0	0	29.63	0.00	11	-1	57	18	2	5	29.86	0.00	6	-4	63	18	2	5		
FEB 10									FEB 11									FEB 12								
01	29.85	0.00	12	1	62	24	6	14	30.05	0.00	9	-2	59	00	0	0	29.98	0.00	20	8	60	24	8	13		
04	29.87	0.00	7	-2	66	20	3	6	30.07	0.00	6	-5	59	00	0	0	29.97	0.00	20	11	66	24	6	10		
07	29.87	0.00	9	-0	65	18	1	2	30.10	0.00	7	-2	67	00	0	0	30.01	0.00	18	11	71	24	4	10		
10	29.86	0.00	14	4	64	18	5	11	30.08	0.00	15	1	55	20	7	12	30.07	0.00	15	10	77	31	7	13		
13	29.79	0.00	20	7	56	18	5	11	30.02	0.00	20	6	53	13	6	8	30.10	0.00	15	-3	43	31	6	17		
16	29.83	0.00	20	11	69	27	5	12	29.97	0.00	23	8	51	20	8	13	30.15	0.00	11	-9	39	31	6	13		
19	29.91	0.00	12	7	79	00	0	0	29.98	0.00	20	7	56	20	5	11	30.26	0.00	3	-14	43	31	3	10		
22	29.96	0.00	14	4	62	31	4	11	29.98	0.00	20	2	44	20	3	12	30.32	0.00	-2	-18	46	00	0	2		
FEB 13									FEB 14									FEB 15								
01	30.36	0.00	-7	-19	55	29	1	5	30.23	0.00	2	-15	45	00	0	0	29.47	0.00	4	-1	79	29	8	14		
04	30.42	0.00	-9	-20	56	31	1	3	30.12	0.00	1	-5	75	00	0	2	29.52	0.00	2	-7	65	29	12	21		
07	30.48	0.00	-11	-21	60	27	1	2	30.05	0.00	1	-5	76	00	0	2	29.58	0.00	0	-10	60	24	8	16		
10	30.52	0.00	-3	-21	41	00	2	5	29.93	0.00	5	-2	74	00	2	5	29.58	0.00	1	-10	60	24	9	14		
13	30.48	0.00	2	-21	32	33	1	2	29.75	0.00	6	-0	77	00	0	2	29.56	0.00	6	-7	54	27	10	19		
16	30.43	0.00	3	-20	32	31	0	1	29.55	0.00	3	-2	78	33	2	5	29.54	0.00	6	-8	52	24	8	14		
19	30.41	0.00	0	-19	40	00	0	0	29.52	0.00	4	-1	79	33	4	13	29.60	0.00	3	-13	48	24	8	16		
22	30.32	0.00	1	-17	41	00	0	2	29.48	0.00	5	-0	79	31	8	19	29.56	0.00	3	-9	57	24	7	14		
FEB 16									FEB 17									FEB 18								
01	29.52	0.00	4	-5	65	24	8	12	29.58	0.00	19	8	62	27	10	19	29.58	0.00	21	10	62	18	2	6		
04	29.50	0.00	4	-7	60	27	9	16	29.59	0.00	18	9	67	24	8	15	29.54	0.00	20	17	90	18	3	6		
07	29.50	0.00	5	-3	69	24	4	10	29.62	0.00	20	10	66	22	7	12	29.53	0.00	18	16	91	18	2	7		
10	29.49	0.00	8	0	68	27	10	16	29.63	0.00	22	10	57	24	10	18	29.53	0.00	22	18	85	20	5	9		
13	29.47	0.00	15	-1	50	29	15	28	29.61	0.00	23	9	55	24	7	14	29.54	0.00	19	13	75	29	7	14		
16	29.47	0.00	18	-2	40	27	7	12	29.60	0.00	25	8	48	22	6	11	29.63	0.00	15	1	54	31	5	12		
19	29.50	0.00	18	3	52	24	9	16	29.62	0.00	22	8	54	18	2	7	29.73	0.00	10	-2	57	29	6	16		
22	29.52	0.00	20	10	67	24	6	11	29.60	0.00	20	7	56	20	1	2	29.79	0.00	5	-3	68	29	5	12		

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

February 2007: Westford

Hour	FEB 19									FEB 20									FEB 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																											
04																											
07																											
10																											
13																											
16																											
19																											
22																											
FEB 22									FEB 23									FEB 24									
01																											
04																											
07																											
10																											
13																											
16																											
19																											
22																											
FEB 25									FEB 26									FEB 27									
01																											
04																											
07																											
10																											
13																											
16																											
19																											
22																											
FEB 28																											
01																											
04																											
07																											
10																											
13																											
16																											
19																											
22																											

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

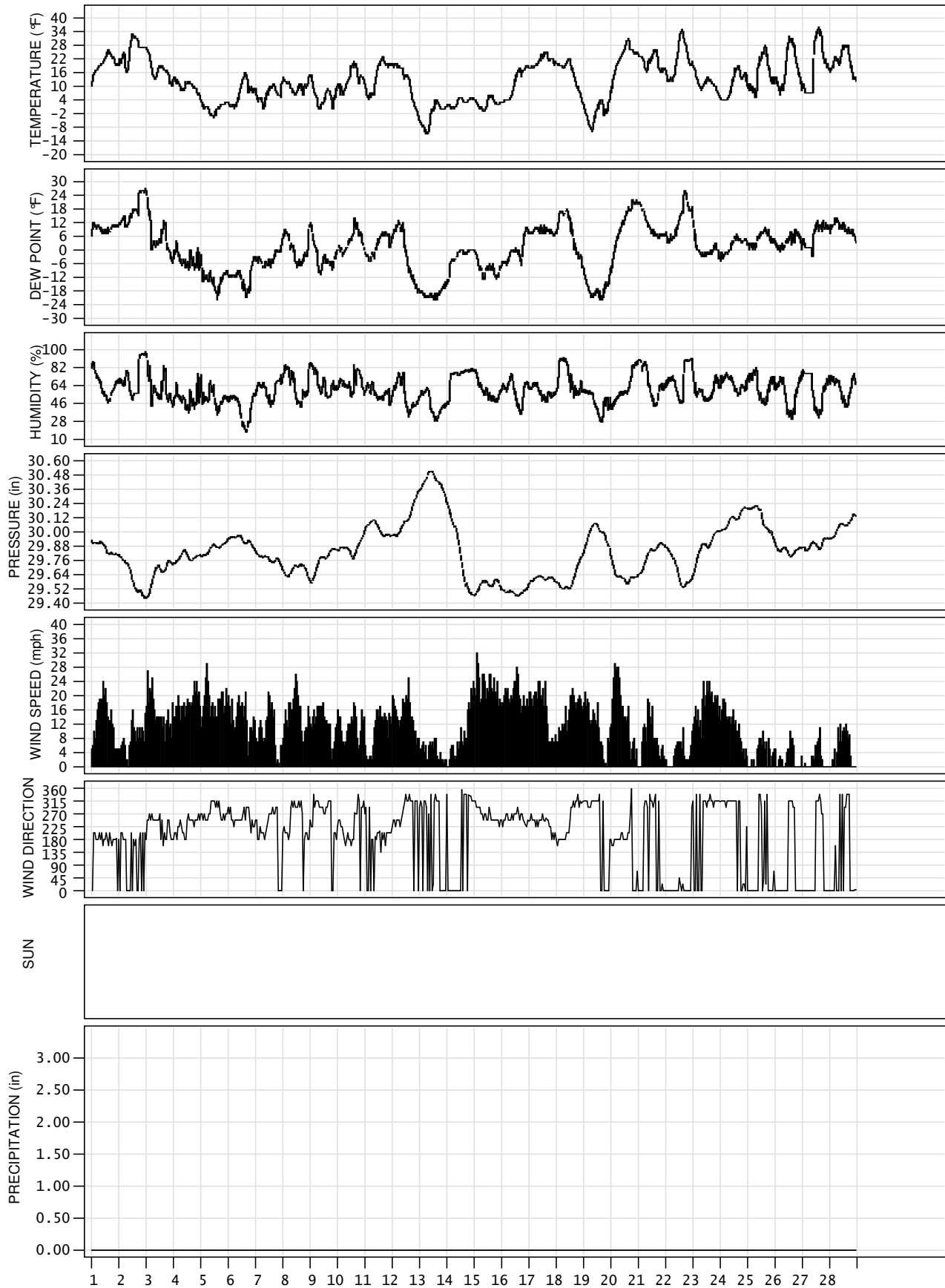
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01		29.824	12	2	66	3.5	26	2.5
04		29.829	10	1	67	4.3	25	3.1
07		29.858	9	-0	67	3.2	24	2.2
10		29.869	13	1	58	5.0	26	3.3
13		29.827	17	1	49	5.1	28	3.2
16		29.815	18	1	49	4.1	27	3.0
19		29.847	13	1	59	2.5	26	1.8
22		29.841	12	2	63	2.8	25	2.1

HOURLY PRECIPITATION (Water Equivalent) February 2007: Westford

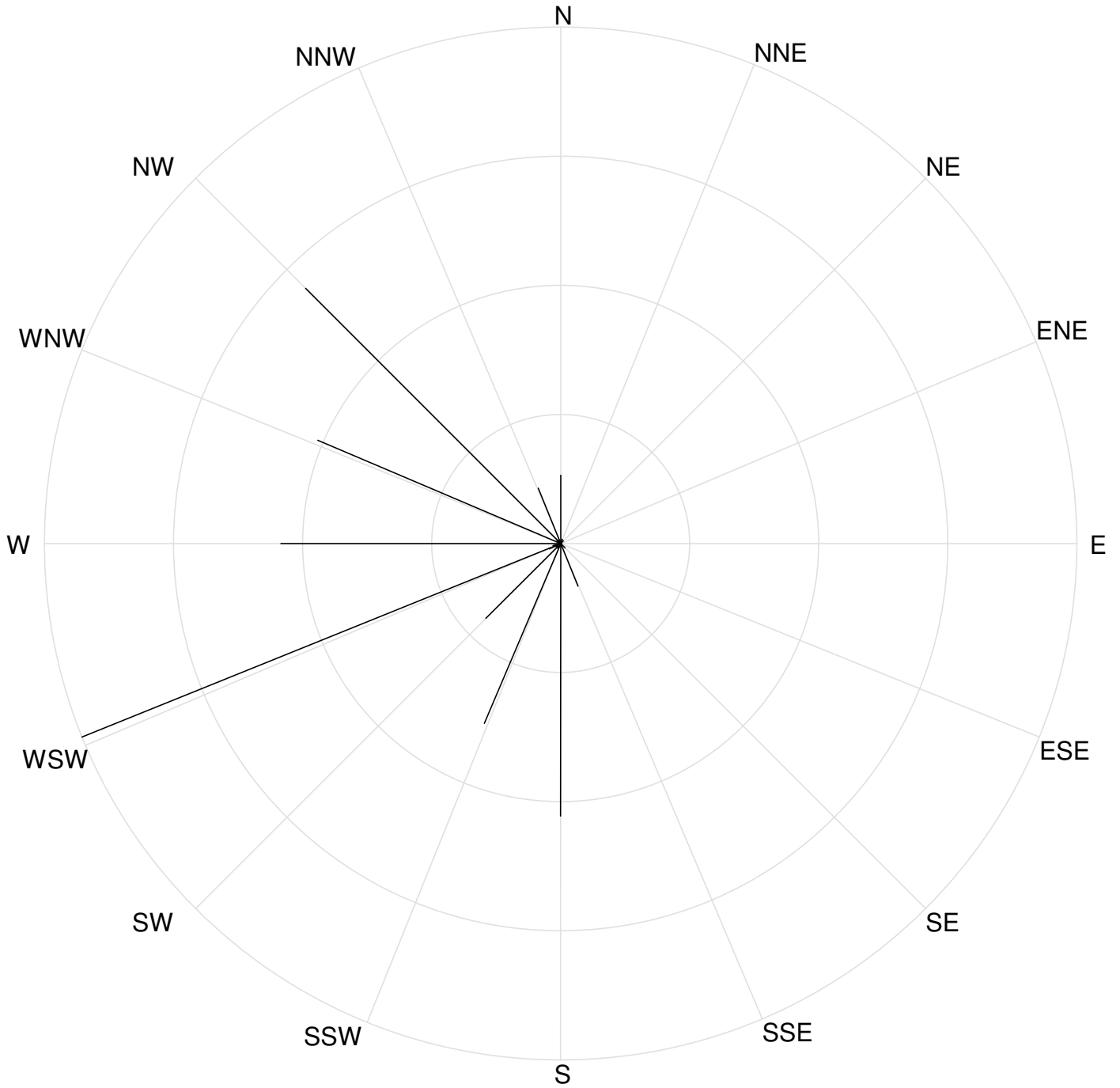
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01																								01	
02																									02
03																									03
04																									04
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27																									27
28																									28
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.)

HOUR-BY-HOUR DATA February 2007: Westford



Wind Rose: February 2007
Westford



Maximum direction of wind: 573.1 miles from 248°.
2509.9 total miles of wind.