

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

February 2013

Station: Westford

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

Date	Temperature					Humidity	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						Solar Radiation		
	Maximum	Minimum	Average	Mean	Dew Point		Mean	Heating Base 65°F			Cooling Base 65°F	Water Equivalent	Ice Pellets Snow	Maximum	Minimum	Mean	Avg	Res	Res	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	20.3	8.5	14.4	11.9	3	67	50	0	.....	T	0.00	0.3	30.11	29.46	29.803	0.9	0.8	313	25	W	14	262	68
2	19.4	3.6	11.5	12.7	4	69	53	0	.....	T	0.00	0.3	30.16	30.00	30.075	1.7	1.7	208	17	SSW	8	211	61
3	25.8	5.0	15.4	14.7	8	76	49	0	.....	0	0.00	0.0	30.01	29.72	29.879	0.4	0.3	312	8	NW	5	312	111
4	20.3	4.7	12.5	13.1	3	64	52	0	.....	T	0.02	1.0	29.92	29.71	29.780	2.4	2.3	290	26	W	15	295	85
5	19.4	-3.2*	8.1	9.2	-5	53	57	0	.....	T	0.00	0.0	30.03	29.87	29.953	0.1	0.0	227	7	N	3	209	111
6	23.2	5.0	14.1	17.2	5	60	51	0	.....	1	0.03	1.5	30.36	29.85	30.042	2.6	1.7	275	20	WNW	12	327	56
7	11.3	-2.8	4.3*	5.4	-7	56	61	0	.....	T	0.00	0.0	30.58	30.36	30.488	0.1	0.0	22	8	NNW	2	13	96
8	24.9	9.9	17.4	18.6	13	78	47	0	.....	7	0.50	7.1	30.42	29.95	30.161	0.9	0.2	126	13	N	6	193	8
9	17.0	4.4	10.7	9.7	1	67	54	0	.....	6	0.05	0.7	30.36	29.95	30.169	2.0	1.9	11	21	NNW	10	13	48
10	27.1	-0.4	13.4	13.5	-1	55	51	0	.....	5	0.00	0.0	30.48	30.23	30.379	0.2	0.2	204	8	S	5	192	97
11	37.8	15.9	26.8	31.5	21	67	38	0	.....	2	0.10	T	30.23	29.57	29.806	4.6	4.5	208	27	S	12	202	39
12	35.6	29.4	32.5	33.4	26	73	32	0	.....	2	T	T	29.80	29.54	29.654	3.5	3.4	257	21	W	10	254	21
13	36.1	28.6	32.3	30.6	22	71	32	0	.....	2	0.01	T	29.81	29.72	29.763	0.8	0.8	262	13	W	6	291	64
14	32.9	26.5	29.7	29.7	20	67	35	0	.....	2	T	T	29.91	29.73	29.843	0.5	0.4	251	9	SSW	6	294	56
15	40.3	28.9	34.6	34.7	24	65	30	0	.....	2	T	T	29.93	29.78	29.846	4.3	3.7	223	20	SW	12	201	41
16	28.9	13.8	21.3	21.7	9	60	43	0	.....	2	0.00	0.0	29.99	29.91	29.952	0.7	0.6	319	20	W	14	304	129
17	13.8	7.2	10.5	9.7	1	68	54	0	.....	2	0.01	0.1	29.91	29.69	29.779	3.3	3.3	324	26	NNW	17	307	73
18	22.1	3.1	12.6	11.1	-4	52	52	0	.....	2	0.00	0.0	30.15	29.86	30.068	2.4	2.4	312	22	WNW	12	313	141
19	45.0*	8.5	26.8	27.6	13	55	38	0	.....	2	0.07	0.6	30.14	29.58	29.835	0.9	0.8	207	18	WNW	9	289	96
20	29.4	16.3	22.8	24.1	17	74	42	0	.....	4	0.13	1.1	29.76	29.57	29.617	3.9	3.8	276	24	WNW	14	289	33
21	17.8	7.4	12.6	13.0	6	73	52	0	.....	5	0.07	1.5	30.39	29.75	30.029	0.7	0.7	303	18	NW	11	338	84
22	33.4	12.3	22.9	23.8	17	75	42	0	.....	4	0.00	0.0	30.44	30.20	30.335	0.1	0.0	134	6	E	3	91	78
23	34.6	29.2	31.9	32.2	25	74	33	0	.....	6	0.09	0.9	30.20	29.84	30.008	2.8	2.8	184	17	SSW	10	190	32
24	34.4	29.6	32.0	31.9	28	85	33	0	.....	6	0.11	0.3	29.93	29.77	29.815	0.6	0.1	199	13	SW	7	204	26
25	34.4	29.6	32.0	31.0	28	87	33	0	1.....	6	0.02	0.2	30.21	29.93	30.093	0.2	0.2	334	9	NE	4	313	28	
26	39.9	28.4	34.2	34.0	28	79	31	0	.....	4	T	T	30.29	30.06	30.220	0.4	0.3	134	12	SSE	6	158	73
27	39.8	31.4	35.6	34.2	28	79	29	0	.....	5	0.19	0.4	30.07	29.61	29.810	1.2	0.9	162	18	S	9	192	32
28	42.3	30.1	36.2*	34.8	30	82	29	0	.....	3	0.02	T	29.61	29.53	29.559	0.7	0.4	250	13	NW	7	214	103
Sum	Sum	-----	-----	---	----	Ttl	Ttl						For the month:										---	
807	411					1203	0						1.42	15.7	30.58	29.46	29.956	1.5	0.8	255	27	S	17	307
Avg	Avg	Avg	Mean	Avg	Avg	----	----						Season Ttl		Date	Date	-----	----	----		Date	Date	Avg	
28.8	14.7	21.8	22.0	13	69.0	----	----						2.81	65.2	7	1	-----	----	----		11	17	67	
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			5297	0	Thunder		0	Precipitation		Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog		0	0.00	-	7.1	8	7		8									
0	15	28	3	----	----	Clear		2	Partly Cloudy		9	Cloudy		17										

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: Solar Radiation is measured in Watts/m^2 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 2013: Westford

Hour	Wind									Wind									Wind																																																													
	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																																																					
FEB 01																											FEB 02																											FEB 03																										
01	0	29.50	0.00	16	8	68	31	1	5	0	30.13	0.00	8	-1	66	34	0	0	0	30.00	0.00	12	8	81	21	0	0																																																					
04	0	29.58	0.00	11	4	74	30	0	6	0	30.16	0.00	5	-3	68	07	0	0	0	29.99	0.00	8	3	81	21	0	0																																																					
07	0	29.66	0.00	10	2	71	31	0	0	0	30.14	0.00	4	-3	75	07	0	0	0	29.97	0.00	5	0	80	21	0	0																																																					
10	197	29.79	0.00	11	2	69	34	0	3	269	30.12	0.00	14	4	66	22	3	10	339	29.95	0.00	18	12	78	06	0	0																																																					
13	271	29.84	0.00	14	5	67	32	3	7	209	30.03	0.00	19	7	59	20	7	13	464	29.86	0.00	24	14	66	29	4	8																																																					
16	97	29.89	0.00	15	3	58	34	1	15	32	30.01	0.00	18	10	71	20	3	10	91	29.80	0.00	23	13	66	33	0	4																																																					
19	0	30.00	0.00	10	-1	59	32	0	2	0	30.01	0.00	18	9	68	21	0	4	0	29.77	0.00	15	9	77	33	0	0																																																					
22	0	30.07	0.00	10	0	66	34	0	2	0	30.01	0.00	13	7	76	21	0	0	0	29.75	0.00	14	10	83	33	0	0																																																					
FEB 04									FEB 05									FEB 06																																																														
01	0	29.72	0.00	15	11	83	22	0	0	0	29.93	0.00	3	-10	55	32	0	0	0	29.86	0.00	18	4	54	18	1	5																																																					
04	0	29.73	0.00	13	8	82	30	4	13	0	29.95	0.00	1	-9	61	05	0	0	0	29.85	0.00	19	8	62	21	3	7																																																					
07	0	29.77	0.00	6	1	80	30	0	0	0	29.99	0.00	-3	-10	70	02	0	0	0	29.88	0.00	22	14	72	20	4	11																																																					
10	373	29.74	0.00	18	11	74	25	4	9	353	30.02	0.00	8	-6	53	08	0	2	56	29.93	0.00	23	18	80	22	4	7																																																					
13	464	29.73	0.00	19	5	53	25	6	19	471	29.98	0.00	17	-2	43	02	0	4	462	30.01	0.00	22	13	68	31	3	14																																																					
16	179	29.77	0.00	19	1	46	27	6	21	142	29.94	0.00	19	-3	37	13	0	0	104	30.12	0.00	19	-1	41	32	3	16																																																					
19	0	29.85	0.00	10	-4	53	30	0	1	0	29.91	0.00	15	-2	46	01	0	0	0	30.27	0.00	10	-7	46	29	1	10																																																					
22	0	29.89	0.00	6	-9	49	33	3	11	0	29.90	0.00	15	2	57	07	0	0	0	30.34	0.00	9	-6	51	32	0	8																																																					
FEB 07									FEB 08									FEB 09																																																														
01	0	30.38	0.00	5	-7	59	30	0	0	0	30.39	0.00	11	-1	58	06	0	2	0	29.95	0.00	15	10	80	02	3	12																																																					
04	0	30.44	0.00	0	-10	61	34	0	2	0	30.33	0.00	10	2	71	05	0	0	0	30.01	0.00	10	4	78	00	2	12																																																					
07	0	30.50	0.00	-2	-11	65	35	0	1	0	30.28	0.00	16	12	82	17	0	2	0	30.09	0.00	7	-1	69	01	4	17																																																					
10	408	30.57	0.00	4	-9	54	33	0	0	26	30.23	0.00	20	15	79	20	0	6	98	30.16	0.00	10	1	66	35	1	19																																																					
13	251	30.54	0.00	9	-7	47	34	0	0	42	30.13	0.00	23	18	80	13	0	9	139	30.18	0.00	13	0	56	34	4	16																																																					
16	67	30.51	0.00	11	-7	44	36	0	0	7	30.04	0.00	23	19	83	02	0	0	230	30.23	0.00	13	-2	50	01	2	17																																																					
19	0	30.49	0.00	8	-6	51	01	0	0	0	30.00	0.00	22	18	85	01	1	8	0	30.30	0.00	7	-3	63	05	0	0																																																					
22	0	30.46	0.00	9	-3	58	01	0	0	0	29.97	0.00	19	13	77	03	2	13	0	30.34	0.00	4	-4	69	02	0	0																																																					
FEB 10									FEB 11									FEB 12																																																														
01	0	30.37	0.00	3	-3	73	03	0	0	0	30.18	0.00	22	5	47	19	0	2	0	29.58	0.00	35	26	71	26	4	12																																																					
04	0	30.39	0.00	4	-3	74	03	0	0	0	30.06	0.00	23	6	46	19	3	8	0	29.55	0.00	35	25	69	25	5	16																																																					
07	0	30.43	0.00	0	-6	75	03	0	0	0	29.95	0.00	30	7	38	20	4	11	0	29.55	0.00	35	26	72	22	2	11																																																					
10	118	30.47	0.00	16	0	48	17	0	1	200	29.84	0.00	33	22	64	19	5	18	105	29.61	0.00	34	27	75	24	3	10																																																					
13	510	30.42	0.00	25	1	35	20	0	0	172	29.72	0.00	35	30	80	19	8	20	53	29.67	0.00	35	27	73	28	3	10																																																					
16	127	30.38	0.00	26	1	34	19	2	5	30	29.63	0.00	36	33	86	20	7	18	11	29.70	0.00	34	27	75	22	1	7																																																					
19	0	30.33	0.00	15	2	56	21	0	0	0	29.58	0.00	37	34	87	21	5	10	0	29.75	0.00	32	24	74	24	4	11																																																					
22	0	30.27	0.00	16	2	54	17	0	2	0	29.58	0.00	37	34	91	24	4	17	0	29.79	0.00	31	24	76	20	0	6																																																					
FEB 13									FEB 14									FEB 15																																																														
01	0	29.79	0.00	29	23	76	23	0	4	0	29.73	0.00	29	23	79	31	0	0	0	29.85	0.00	32	21	64	18	1	7																																																					
04	0	29.79	0.00	29	22	75	24	1	5	0	29.77	0.00	28	22	77	31	0	0	0	29.80	0.00	33	26	76	20	5	15																																																					
07	0	29.80	0.00	29	22	76	25	0	5	0	29.82	0.00	28	21	77	31	0	0	0	29.80	0.00	34	29	82	20	4	17																																																					
10	188	29.80	0.00	31	23	73	21	0	5	227	29.87	0.00	32	18	57	27	1	5	56	29.82	0.00	36	28	73	20	6	10																																																					
13	294	29.75	0.00	34	23	62	28	0	1	211	29.87	0.00	32	18	56	25	3	6	172	29.81	0.00	39	28	66	24	3	9																																																					
16	65	29.73	0.00	33	21	60	27	0	0	100	29.88	0.00	32	19	57	30	0	0	79	29.84	0.00	40	23	50	24	3	9																																																					
19	0	29.73	0.00	30	22	73	27	0	0	0	29.91	0.00	29	19	66	16	0	0	0	29.92	0.00	35	21	56	27	2	7																																																					
22	0	29.74	0.00	29	23	76	27	0	0	0	29.88	0.00	30	19	63	20	0	6	0	29.91	0.00	31	18	59	28	3	8																																																					
FEB 16									FEB 17									FEB 18																																																														
01	0	29.94	0.00	28	14	55	29	4	16	0	29.87	0.00	13	4	66	35	0	2	0	29.89	0.00	6	-3	67	32	4	16																																																					
04	0	29.92	0.00	26	14	59	32	1	4	0	29.83	0.00	9	3	74	32	0	1	0	29.96	0.00	4	-5	67	33	2	12																																																					
07	7	29.95	0.00	19	13	76	04	0	2	0	29.81	0.00	9	4	78	36	0	3	7	30.06	0.00	3	-5	68	29	1	3																																																					
10	353	29.99	0.00	22	11	62	05	1	9	113	29.75	0.00	9	2	74	33	0	8	425	30.11	0.00	11	-3	52	31	5	17																																																					
13	536	29.96	0.00	25	10	52	02	0	4	283	29.70	0.00	9	0	67	33	8	20	536	30.10	0.00	19	-4	35	33	1	12																																																					
16	116	29.95	0.00	23	6	47	02	0	2	135	29.69	0.00	11	-1	58	31	8	22	188	30.12	0.00	22	-5	30	31	1	4																																																					
19	0	29.97	0.00	17	5	59	04	0	0	0	29.77	0.00	9	-1	62	31	8	20	0	30.15	0.00	14	-4	43	04	0	0																																																					
22	0	29.93	0.00	15	4	60	30	0	1	0	29.81	0.00	9	-1	64	32	7	18	0	30.14	0.00	7	-4	60	04	0	0																																																					

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	00	00	00	00	00	00	00	00	00	00	00	00
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 2013: 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	0	30.11	0.00	11	-2	56	04	0	0	0	29.59	0.00	28	25	87	29	6	13	0	29.78	0.00	14	5	67	31	7	18
04	0	30.09	0.00	19	-0	43	21	1	5	0	29.58	0.00	25	22	86	28	0	7	0	29.82	0.00	10	2	68	23	0	0
07	11	29.99	0.00	12	1	61	13	0	0	0	29.58	0.00	25	19	77	27	2	6	12	29.89	0.00	7	1	75	26	0	0
10	496	29.90	0.00	30	10	42	16	0	6	60	29.58	0.00	25	16	68	27	7	14	279	29.96	0.00	10	1	68	25	1	4
13	381	29.75	0.00	41	16	36	20	0	2	113	29.59	0.00	25	14	62	29	6	20	258	30.02	0.00	14	6	68	30	0	2
16	70	29.68	0.00	40	18	41	20	1	8	60	29.61	0.00	23	15	71	28	9	20	37	30.12	0.00	15	9	76	02	0	2
19	0	29.64	0.00	35	25	67	21	0	3	0	29.67	0.00	23	13	66	26	6	17	0	30.22	0.00	15	10	80	07	0	0
22	0	29.59	0.00	33	30	89	20	0	4	0	29.70	0.00	23	15	71	32	2	10	0	30.29	0.00	17	12	82	01	0	0
FEB 22									FEB 23									FEB 24									
01	0	30.39	0.00	18	14	82	09	0	0	0	30.17	0.00	30	20	67	19	2	4	0	29.83	0.00	33	27	79	20	3	7
04	0	30.36	0.00	15	11	84	04	0	0	0	30.11	0.00	31	20	64	18	1	9	0	29.78	0.00	33	27	77	19	0	0
07	7	30.42	0.00	13	8	83	04	0	0	7	30.08	0.00	32	23	69	18	3	7	0	29.80	0.00	32	28	86	21	0	3
10	111	30.42	0.00	25	21	83	04	0	0	56	30.05	0.00	33	24	68	19	4	12	53	29.78	0.00	34	31	89	21	0	0
13	406	30.35	0.00	31	21	66	08	0	3	121	29.98	0.00	32	27	83	18	4	11	148	29.77	0.00	33	29	88	03	2	7
16	125	30.29	0.00	32	20	61	09	0	0	26	29.94	0.00	32	28	86	17	1	9	23	29.80	0.00	31	27	83	06	0	4
19	0	30.27	0.00	27	20	75	14	0	0	0	29.91	0.00	33	28	82	19	3	8	0	29.85	0.00	30	26	85	03	0	0
22	0	30.22	0.00	28	20	71	15	0	1	0	29.87	0.00	33	27	78	20	3	7	0	29.90	0.00	30	27	88	00	0	4
FEB 25									FEB 26									FEB 27									
01	0	29.95	0.00	30	27	87	34	0	7	0	30.22	0.00	30	28	92	09	0	0	0	30.05	0.00	34	24	65	13	2	9
04	0	29.99	0.00	30	26	87	32	0	0	0	30.24	0.00	29	27	92	09	0	0	0	30.00	0.00	34	24	65	17	4	10
07	0	30.04	0.00	30	27	89	01	0	0	7	30.27	0.00	29	27	93	20	0	0	11	29.92	0.00	35	27	71	14	2	14
10	26	30.09	0.00	31	29	90	33	1	3	216	30.28	0.00	33	29	85	09	2	3	176	29.83	0.00	39	29	67	19	0	4
13	127	30.11	0.00	33	29	85	31	2	5	171	30.25	0.00	39	30	70	11	0	0	35	29.77	0.00	35	31	86	12	0	2
16	90	30.15	0.00	34	29	81	30	0	0	42	30.19	0.00	38	28	67	06	0	1	33	29.70	0.00	34	31	89	30	0	4
19	0	30.18	0.00	31	27	87	30	0	0	0	30.17	0.00	36	27	70	14	0	3	0	29.66	0.00	33	30	89	05	0	2
22	0	30.20	0.00	30	28	91	30	0	0	0	30.13	0.00	35	27	70	18	0	7	0	29.63	0.00	32	29	88	07	0	0
FEB 28																											
01	0	29.59	0.00	31	29	89	10	0	0																		
04	0	29.53	0.00	31	28	90	10	0	0																		
07	5	29.55	0.00	31	29	92	10	0	0																		
10	265	29.56	0.00	36	31	84	19	3	7																		
13	302	29.55	0.00	42	31	65	25	0	7																		
16	83	29.55	0.00	40	29	65	36	0	0																		
19	0	29.58	0.00	36	30	80	03	0	4																		
22	0	29.58	0.00	32	29	87	32	1	5																		

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	0	29.955	20	12	70	1.4	29	0.8
04	0	29.951	19	11	72	1.2	24	0.7
07	3	29.964	18	11	75	0.9	21	0.6
10	202	29.973	23	14	69	1.9	24	1.2
13	272	29.945	26	15	63	2.4	27	1.3
16	85	29.938	26	14	61	1.8	27	1.1
19	0	29.959	23	13	68	1.1	26	0.8
22	0	29.960	21	13	72	1.0	30	0.6

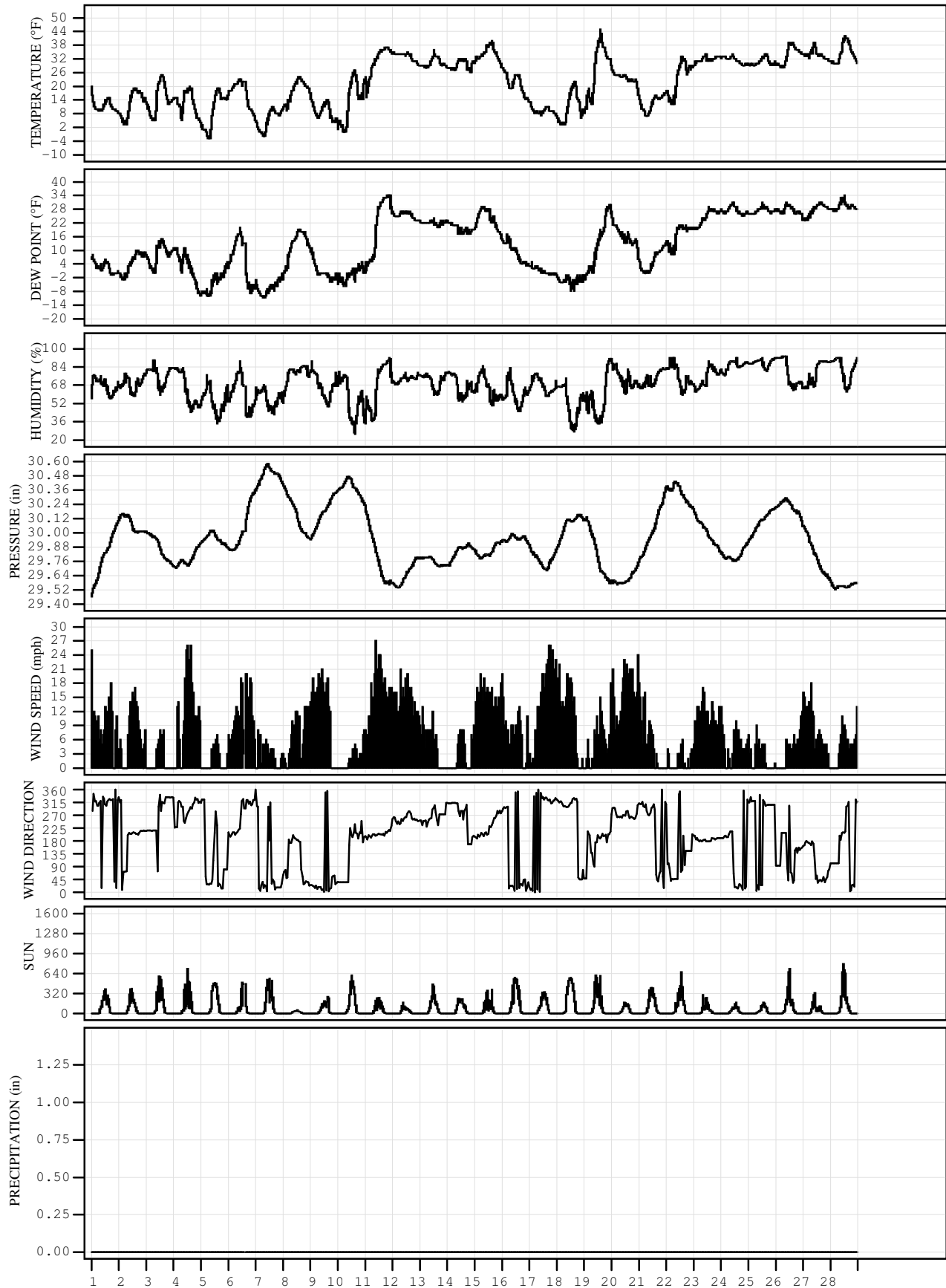
HOURLY PRECIPITATION (Water Equivalent) February 2013: Westford

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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26																									26
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

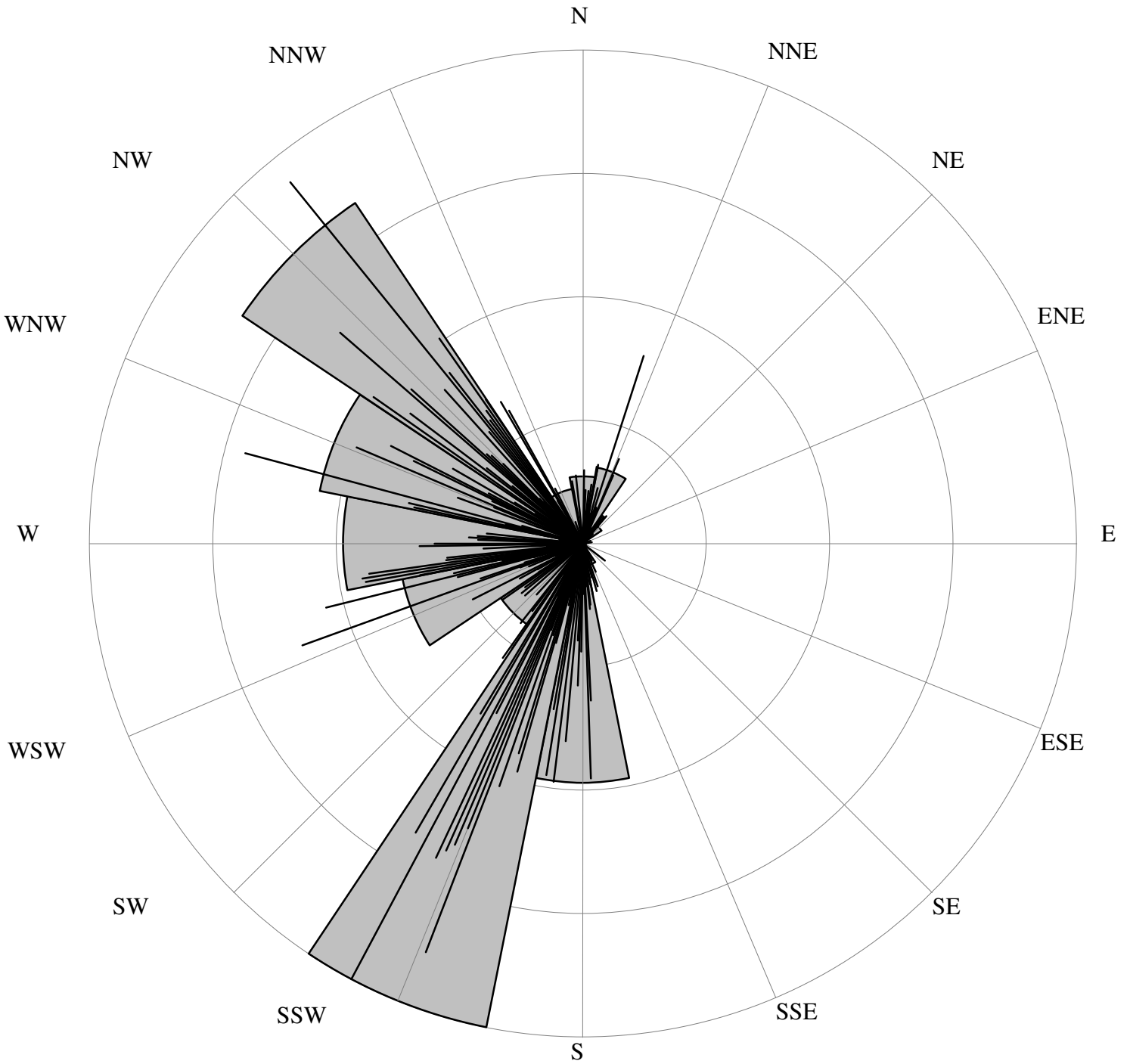
During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA

February 2013: Westford



Wind Rose: February 2013
Westford



Maximum direction of wind: 26.7 miles from 208°
Maximum sector of wind: 231.3 miles from SSW
1025.1 total miles of wind