

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

June 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 duststz 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 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	86.3	65.6	76.0*	75.6	64	69	0	11	..3.....	0	0.49	0.0	29.88	29.72	29.804	2.0	1.9	222	22	W	14	268	268	
2	83.9	62.0	73.0	70.0	66	87	0	8	..3.....	0	0.78	0.0	29.78	29.58	29.658	1.9	1.9	217	36	W	14	250	181	
3	66.3	52.0	59.2	60.6	50	70	6	0	.....	0	0.00	0.0	29.82	29.69	29.759	2.1	1.9	284	18	NW	13	304	246
4	63.5	47.1	55.3	53.3	42	66	9	0	.....	0	0.00	0.0	30.07	29.81	29.934	1.7	1.6	294	21	W	9	295	212
5	67.8	40.4*	54.1	54.5	43	66	11	0	.....	0	0.00	0.0	30.18	30.07	30.127	0.4	0.3	280	12	NNW	2	34	274
6	58.7	48.2	53.5*	53.1	47	80	11	0	.....	0	0.20	0.0	30.14	30.02	30.092	0.1	0.0	50	8	SW	3	214	71
7	56.9	50.3	53.6	52.9	50	90	11	0	.....	0	0.68	0.0	30.04	29.83	29.941	0.1	0.1	170	11	S	4	217	80
8	59.5	51.6	55.5	54.9	53	94	9	0	.....	0	0.09	0.0	29.99	29.74	29.838	0.5	0.5	304	13	WNW	6	306	101
9	74.9	51.8	63.4	62.0	55	80	1	0	.....	0	0.00	0.0	30.15	29.98	30.043	1.1	0.9	256	15	NW	7	218	223
10	74.4	48.1	61.3	61.0	52	76	4	0	.....	0	0.11	0.0	30.15	29.90	30.067	0.2	0.2	180	12	SSE	4	161	189
11	60.8	54.1	57.4	56.8	54	92	7	0	.....	0	1.37	0.0	29.90	29.54	29.668	0.1	0.1	84	12	S	4	115	72
12	68.0	52.3	60.1	56.9	53	88	5	0	.....	0	0.18	0.0	29.82	29.57	29.719	0.6	0.6	20	19	NE	7	22	117
13	69.3	46.7	58.0	58.3	51	80	7	0	.....	0	T	0.0	29.78	29.64	29.712	0.0	0.0	242	2	WSW	0	237	160
14	75.0	48.7	61.9	61.4	53	75	3	0	.....	0	T	0.0	29.82	29.65	29.722	0.5	0.5	319	14	WNW	7	316	303
15	73.8	44.8	59.3	62.0	45	57	5	0	.....	0	0.00	0.0	29.92	29.82	29.870	0.9	0.8	299	15	WNW	7	296	330
16	64.8	53.7	59.3	59.0	51	77	5	0	.....	0	0.37	0.0	29.86	29.63	29.752	1.0	0.9	238	13	SW	8	294	65
17	72.8	52.8	62.8	61.3	55	82	2	0	..3.....	0	0.02	0.0	29.91	29.69	29.775	1.0	0.9	277	17	WNW	8	249	194	
18	69.6	44.3	56.9	56.5	48	75	8	0	.....	0	0.00	0.0	29.96	29.88	29.919	0.1	0.1	332	9	NE	5	297	230
19	67.5	40.5	54.0	55.6	43	65	10	0	.....	0	0.00	0.0	30.15	29.95	30.051	0.4	0.4	326	13	NW	6	310	323
20	75.3	41.7	58.5	58.6	46	67	6	0	.....	0	0.00	0.0	30.22	30.14	30.182	0.2	0.1	281	10	NW	5	306	296
21	80.8	48.3	64.6	64.9	52	66	0	0	.....	0	0.00	0.0	30.21	30.15	30.176	0.2	0.2	273	10	W	4	310	321
22	76.0	57.2	66.6	65.0	60	84	0	2	.....	0	0.36	0.0	30.16	30.03	30.097	0.1	0.0	235	8	SW	3	230	107
23	79.8	62.9	71.4	71.3	68	89	0	7	..3.....	0	0.53	0.0	30.05	29.89	29.972	0.3	0.3	223	13	S	6	226	195	
24	85.8	65.0	75.4	72.8	68	85	0	11	..3.....	0	0.78	0.0	29.92	29.81	29.876	0.7	0.6	237	18	NW	9	302	200	
25	85.5	64.2	74.8	69.7	66	90	0	10	..3.....	0	1.71	0.0	29.86	29.69	29.759	1.2	1.1	226	18	NW	8	316	188	
26	76.7	63.0	69.8	67.7	65	93	0	5	..3.....	0	0.54	0.0	29.75	29.68	29.712	0.4	0.4	222	13	WSW	5	268	110	
27	83.3	65.2	74.3	72.3	67	85	0	9	..3.....	0	0.00	0.0	29.74	29.64	29.695	0.1	0.1	224	8	SW	3	225	196	
28	71.9	59.5	65.7	65.2	62	89	0	1	..3.....	0	0.50	0.0	29.65	29.33	29.454	1.0	0.4	290	17	S	8	167	103	
29	76.7	55.9	66.3	64.6	62	90	0	2	..3.....	0	0.46	0.0	29.63	29.45	29.509	0.4	0.3	239	12	SW	6	225	144	
30	80.3	56.7	68.5	67.8	63	85	0	4	.....	0	0.06	0.0	29.89	29.62	29.766	0.2	0.2	308	10	WNW	4	318	252
Sum	Sum	-----	-----	---	----		Ttl	Ttl					For the month:						---					
2186	1595						120	70	Number of Days	9.23	0.0	30.22	29.33	29.855	0.7	0.4	262	36	W	14	250			
Avg	Avg	Avg	Mean	Avg	Avg		----	----	Precip	Season Ttl		Date	Date	-----	----	----	----	Date	Date	Avg				
72.9	53.2	63.0	62.2	55	79.7	----	----	----	≥.01 inch	18	24.26	80.8	20	28	-----	----	----	----	2	2	191			
Number of Days							Season to Date	Snow, Ice ≥1.0 inch	0	Greatest in 24 Hours and Dates					Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date									
Max Temperature			Min Temperature			73	37	104	Thunder	10	Precipitation		Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	----	----	Heavy Fog	0	2.23	25-26	0.0	-	0					-					
0	0	0	0	----	----	----	----	Clear	3	Partly Cloudy		12	Cloudy			14								

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/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

June 2013: Westford

Hour	JUN 01								JUN 02								JUN 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	0	29.86	0.00	66	58	75	26	0	4	0	29.76	0.04	67	64	92	21	0	1	0	29.71	0.00	62	58	85	17	0	7
04	0	29.85	0.00	68	62	81	21	0	3	0	29.71	0.00	66	64	95	19	0	0	0	29.71	0.00	61	57	87	20	0	4
07	116	29.86	0.00	70	63	80	20	1	7	139	29.68	0.00	69	68	97	19	1	4	49	29.73	0.00	59	56	89	24	0	3
10	668	29.84	0.00	80	66	63	20	3	8	86	29.64	0.21	74	69	83	21	5	18	387	29.77	0.00	60	51	72	29	3	13
13	849	29.80	0.00	84	68	58	20	5	12	005	29.60	0.00	83	70	66	22	6	17	431	29.78	0.00	61	49	64	27	4	12
16	633	29.75	0.00	85	65	52	22	5	18	156	29.59	0.00	68	65	88	21	0	10	737	29.76	0.00	65	47	62	29	4	10
19	90	29.73	0.00	81	67	62	20	1	5	79	29.63	0.06	66	62	88	23	1	15	185	29.77	0.00	65	46	51	30	0	4
22	0	29.79	0.43	70	63	80	26	6	21	0	29.68	0.00	65	62	91	22	5	12	0	29.81	0.00	55	42	61	25	2	8
JUN 04								JUN 05								JUN 06											
01	0	29.82	0.00	51	40	66	26	6	12	0	30.08	0.00	50	43	77	00	0	0	0	30.12	0.00	50	44	80	01	0	0
04	0	29.83	0.00	48	39	71	26	1	10	0	30.11	0.00	42	39	87	00	0	0	0	30.12	0.00	49	44	84	01	0	0
07	44	29.86	0.00	49	40	72	29	4	14	47	30.16	0.00	44	43	94	00	0	0	81	30.13	0.00	50	44	78	12	0	2
10	387	29.92	0.00	51	41	68	28	4	19	730	30.18	0.00	59	43	54	29	4	9	183	30.11	0.00	57	45	66	05	0	3
13	490	29.98	0.00	57	44	62	35	1	10	911	30.16	0.00	64	44	49	29	4	10	113	30.10	0.00	56	47	72	06	0	0
16	796	29.97	0.00	62	46	55	29	2	10	404	30.09	0.00	65	42	43	04	0	2	111	30.07	0.00	55	50	81	05	2	7
19	120	30.01	0.00	59	47	65	32	0	7	62	30.11	0.00	59	47	63	01	0	0	19	30.04	0.00	53	50	88	05	1	6
22	0	30.05	0.00	51	43	72	01	0	0	0	30.14	0.00	52	44	74	01	0	0	0	30.03	0.00	52	50	93	09	0	0
JUN 07								JUN 08								JUN 09											
01	0	30.01	0.04	53	51	95	24	0	0	0	29.83	0.00	52	51	95	21	0	0	0	29.99	0.00	56	54	96	29	0	0
04	0	29.97	0.07	51	50	95	15	0	4	0	29.75	0.00	52	50	96	21	0	2	0	30.00	0.00	56	55	96	20	2	5
07	88	29.97	0.00	51	49	93	17	0	0	65	29.74	0.00	53	52	96	02	0	0	105	30.02	0.00	57	56	97	21	0	5
10	209	29.98	0.00	53	50	90	18	2	6	288	29.78	0.00	56	54	96	31	1	8	329	30.06	0.00	62	58	89	23	2	6
13	155	29.95	0.00	55	50	84	19	0	0	146	29.83	0.00	56	55	95	32	0	6	367	30.05	0.00	68	57	68	19	1	9
16	167	29.93	0.00	56	52	86	14	0	1	125	29.87	0.00	58	55	89	31	4	6	679	30.04	0.00	74	55	53	30	2	11
19	25	29.90	0.00	54	50	89	21	0	0	32	29.94	0.00	57	54	92	29	0	0	181	30.05	0.00	72	55	55	33	0	1
22	0	29.86	0.00	52	50	93	21	0	0	0	29.96	0.00	55	54	95	29	0	0	0	30.11	0.00	53	48	83	35	0	0
JUN 10								JUN 11								JUN 12											
01	0	30.14	0.00	51	49	92	35	0	0	0	29.88	0.07	56	53	89	18	0	1	0	29.58	0.00	53	52	95	03	1	5
04	0	30.14	0.00	49	48	95	08	0	0	0	29.79	0.07	56	53	90	20	0	0	0	29.61	0.00	53	52	96	03	1	8
07	114	30.14	0.00	53	51	96	08	0	0	35	29.72	0.04	56	54	94	17	0	0	16	29.68	0.09	53	52	96	02	2	6
10	538	30.12	0.00	66	56	71	07	0	0	125	29.69	0.11	56	54	93	13	0	0	192	29.72	0.00	57	54	91	00	2	10
13	599	30.08	0.00	74	50	42	16	0	3	91	29.63	0.06	58	55	91	04	0	6	190	29.77	0.00	61	54	78	01	0	1
16	294	30.01	0.00	72	55	54	19	0	5	174	29.58	0.08	60	56	87	16	2	8	828	29.77	0.00	62	54	76	32	0	0
19	37	29.98	0.00	66	53	63	22	0	7	26	29.55	0.00	57	55	92	06	0	0	69	29.77	0.00	59	54	84	06	0	0
22	0	29.96	0.00	59	54	85	17	0	5	0	29.57	0.06	55	54	95	04	0	5	0	29.82	0.00	53	50	90	07	0	0
JUN 13								JUN 14								JUN 15											
01	0	29.77	0.00	51	49	94	07	0	0	0	29.68	0.00	52	49	90	23	0	0	0	29.83	0.00	55	43	64	02	0	1
04	0	29.75	0.00	48	47	95	07	0	0	0	29.66	0.00	49	47	94	23	0	0	0	29.86	0.00	50	42	76	04	0	0
07	67	29.74	0.00	50	49	96	07	0	0	86	29.69	0.00	53	52	96	23	0	0	35	29.89	0.00	50	45	82	04	0	0
10	459	29.71	0.00	66	55	68	22	0	0	835	29.72	0.00	64	58	81	30	2	5	714	29.91	0.00	65	49	56	28	0	6
13	408	29.69	0.00	68	51	55	12	0	0	930	29.73	0.00	71	58	63	32	4	13	958	29.89	0.00	70	49	46	29	1	9
16	185	29.65	0.00	65	54	69	20	0	0	671	29.72	0.00	74	56	52	31	5	11	696	29.85	0.00	73	44	36	31	3	13
19	102	29.68	0.00	62	54	74	23	0	2	40	29.75	0.00	68	53	60	30	2	9	199	29.84	0.00	71	49	45	31	1	10
22	0	29.71	0.00	57	52	84	23	0	0	0	29.79	0.00	61	46	57	29	0	5	0	29.87	0.00	61	45	55	22	0	3
JUN 16								JUN 17								JUN 18											
01	0	29.85	0.00	60	45	58	21	0	6	0	29.76	0.00	54	52	94	31	0	0	0	29.90	0.00	50	47	88	31	0	0
04	0	29.84	0.00	55	44	67	23	0	5	0	29.70	0.00	55	54	96	22	0	6	0	29.89	0.00	46	43	90	31	0	0
07	58	29.82	0.00	58	46	65	21	1	6	44	29.74	0.00	57	56	96	21	0	7	37	29.91	0.00	49	47	95	31	0	0
10	172	29.77	0.00	63	48	59	22	1	10	276	29.75	0.00	68	59	73	27	5	15	197	29.95	0.00	55	50	83	28	0	0
13	88	29.72	0.06	60	56	84	21	0	0	949	29.76	0.00	70	62	75	30	0	7	545	29.94	0.00	64	51	64	01	0	3
16	141	29.66	0.12	60	58	92	16	4	11	46	29.79	0.00	66	57	72	32	0	6	701	29.91	0.00	69	46	44	32	0	6
19	54	29.64	0.00	60	58	93	23	3	9	53	29.82	0.00	63	56	77	28	0	0	218	29.91	0.00	68	47	48	31	0	1
22	0	29.73	0.00	59	57	94	32	2	7	0	29.87	0.00	57	51	81	30	0	3	0	29.94	0.00	51	46	82	03	0	0

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.52	0.94	1.17	1.36	1.48	1.52	1.52	1.52	1.52	1.52	1.56	1.61
Ended: Date	25	25	25	25	25	25	25	25	25	25	25	25
Ended: Time	1500	1500	1505	1506	1508	1525	1525	1525	1525	1525	1710	1740

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

June 2013: Westford

Hour	JUN 19									JUN 20									JUN 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	29.97	0.00	52	43	71	04	0	3	0	30.15	0.00	44	40	87	30	0	0	0	30.17	0.00	50	45	83	28	0	0
04	0	29.98	0.00	45	38	78	03	1	4	0	30.17	0.00	43	41	92	30	0	0	0	30.17	0.00	50	46	88	26	0	0
07	35	30.03	0.00	46	42	87	03	2	9	37	30.21	0.00	47	45	95	30	0	0	111	30.19	0.00	57	52	81	21	0	3
10	717	30.07	0.00	60	45	58	00	2	6	287	30.22	0.00	66	48	53	24	0	0	693	30.21	0.00	70	53	55	29	3	7
13	925	30.07	0.00	63	47	55	29	0	6	947	30.21	0.00	69	50	50	22	0	5	888	30.20	0.00	76	53	46	27	1	8
16	691	30.07	0.00	66	44	45	29	3	8	693	30.17	0.00	73	48	40	29	0	3	659	30.17	0.00	80	55	42	30	0	7
19	197	30.07	0.00	66	46	49	30	0	0	188	30.15	0.00	75	51	43	28	0	0	193	30.16	0.00	80	56	45	33	0	0
22	0	30.12	0.00	47	42	83	30	0	0	0	30.17	0.00	54	46	76	28	0	0	0	30.16	0.00	59	53	79	33	0	0
JUN 22									JUN 23									JUN 24									
01	0	30.16	0.00	57	53	85	33	0	0	0	30.04	0.00	63	62	96	15	0	0	0	29.90	0.00	69	67	96	21	2	8
04	0	30.12	0.00	58	54	86	31	0	0	0	29.99	0.00	64	64	97	22	0	3	0	29.88	0.00	69	66	89	24	0	3
07	70	30.11	0.00	61	57	85	20	0	0	93	30.03	0.00	66	66	97	22	0	1	33	29.91	0.00	70	66	86	23	0	2
10	285	30.11	0.00	71	62	72	23	1	7	738	30.00	0.00	75	69	82	20	1	10	652	29.90	0.00	78	69	76	26	1	9
13	471	30.09	0.00	76	63	66	26	0	2	438	29.97	0.00	78	70	77	28	0	2	874	29.87	0.00	85	72	64	32	0	7
16	35	30.09	0.22	67	63	88	30	0	0	193	29.94	0.09	75	71	89	18	0	0	30	29.85	0.24	72	69	90	18	0	0
19	37	30.05	0.00	65	64	95	06	0	1	16	29.92	0.00	75	71	87	23	0	0	37	29.81	0.00	76	71	84	22	0	6
22	0	30.05	0.00	63	62	95	10	0	0	0	29.93	0.00	70	69	95	23	0	0	0	29.87	0.07	66	63	93	22	0	4
JUN 25									JUN 26									JUN 27									
01	0	29.85	0.00	65	63	95	21	3	10	0	29.70	0.00	66	65	97	22	0	0	0	29.72	0.00	66	64	94	22	1	6
04	0	29.81	0.00	66	65	96	21	2	8	0	29.69	0.00	66	65	98	21	0	1	0	29.70	0.00	66	65	94	22	1	5
07	81	29.79	0.00	67	66	95	21	4	10	28	29.70	0.00	66	65	98	21	0	0	83	29.73	0.00	67	66	96	21	0	4
10	599	29.78	0.00	76	69	80	21	2	10	42	29.73	0.00	66	65	98	21	1	3	717	29.73	0.00	78	70	77	22	0	1
13	856	29.73	0.00	84	74	72	23	0	11	42	29.74	0.04	63	62	97	22	0	1	378	29.69	0.00	81	69	68	24	0	0
16	51	29.75	0.00	67	65	94	21	0	8	673	29.72	0.00	75	68	79	23	2	8	206	29.67	0.00	79	71	79	19	0	1
19	25	29.70	0.00	67	66	97	23	0	0	105	29.72	0.00	73	67	84	22	0	1	67	29.68	0.00	73	68	83	07	0	6
22	0	29.70	0.00	66	65	97	21	2	6	0	29.73	0.00	69	65	89	21	0	3	0	29.66	0.00	68	65	92	00	0	1
JUN 28									JUN 29									JUN 30									
01	0	29.63	0.00	66	65	94	00	0	0	0	29.45	0.00	60	58	93	28	0	0	0	29.64	0.00	59	58	96	28	0	0
04	0	29.56	0.08	62	61	95	08	0	0	0	29.47	0.00	59	57	94	28	0	0	0	29.68	0.00	58	57	97	28	0	0
07	32	29.47	0.32	63	62	97	00	2	8	74	29.49	0.00	61	60	96	28	0	0	118	29.74	0.00	62	61	97	12	0	0
10	98	29.39	0.00	63	61	94	10	0	0	306	29.50	0.00	67	62	85	20	1	5	779	29.79	0.00	70	67	91	20	0	0
13	105	29.34	0.00	66	62	85	17	0	9	345	29.48	0.00	74	65	73	21	4	9	930	29.79	0.00	76	67	74	31	0	3
16	388	29.38	0.00	70	65	83	27	3	16	265	29.51	0.00	67	64	92	28	0	4	278	29.78	0.00	79	67	65	29	0	7
19	97	29.44	0.00	66	59	78	30	1	6	35	29.54	0.00	66	64	93	30	0	0	156	29.81	0.00	76	66	71	02	1	5
22	0	29.46	0.00	61	58	90	28	0	0	0	29.61	0.00	64	63	96	30	0	0	0	29.87	0.00	67	62	85	07	0	3

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	29.864	57	53	87	0.4	24	0.3
04	0	29.851	55	52	90	0.2	22	0.1
07	67	29.863	57	54	91	0.5	28	0.2
10	423	29.868	65	57	76	1.5	26	1.0
13	547	29.854	69	57	68	1.1	25	0.7
16	390	29.837	69	57	69	1.4	28	0.7
19	91	29.839	67	57	73	0.4	27	0.2
22	0	29.868	59	54	85	0.6	25	0.5

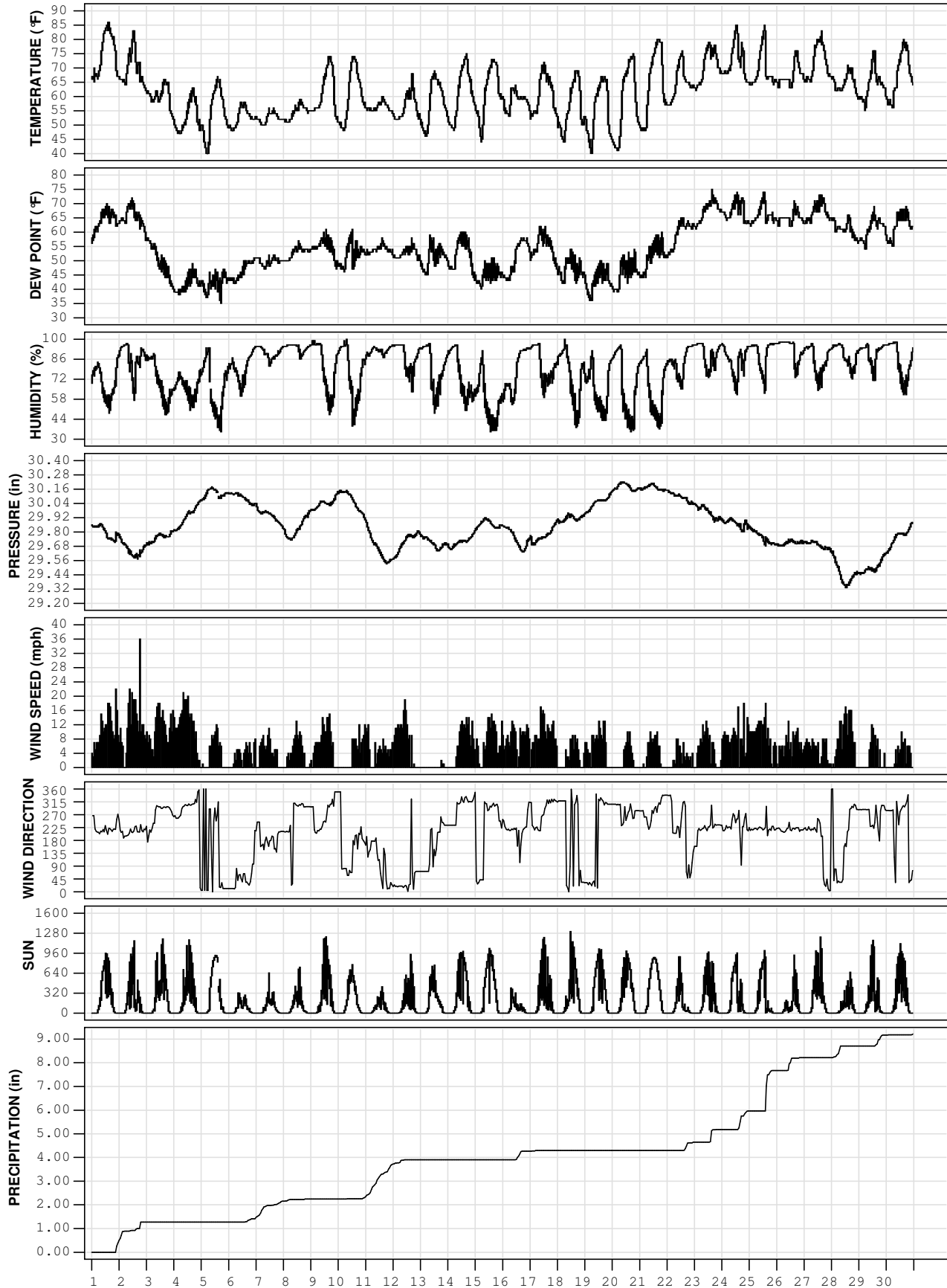
**HOURLY PRECIPITATION (Water Equivalent)
June 2013: Westford**

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																															
02	0.09	0.13	0.16	0.01	0.01					0.02	0.01				0.06	0.02					0.27					0.25	0.14	0.10			
03																															
04																															
05																															
06															0.02		0.05	0.02	0.02	0.03								0.06			
07	0.04	0.02	0.04	0.08	0.12	0.07	0.07	0.02	0.02	0.02				0.02		0.01	0.01	0.01	0.02	0.03	0.02				0.04	0.02	0.02				
08		0.02		0.02	0.02	0.01		0.01											0.01												
09								0.01																		0.04	0.02	0.04			
10																															
11	0.06	0.02	0.03	0.05	0.14	0.10	0.05	0.05	0.06	0.14	0.06	0.07	0.07	0.05		0.03	0.04	0.01	0.02	0.11	0.05	0.10	0.04	0.02							
12	0.01	0.03		0.01		0.02	0.08	0.02		0.01																					
13																															
14																															
15																															
16											0.01	0.10	0.05	0.10	0.09	0.01	0.01														
17		0.01			0.01																										
18																															
19																															
20																															
21																															
22																												0.03			
23														0.02	0.02	0.07	0.10	0.13	0.01												
24															0.46	0.04			0.01												
25		0.01													0.07	0.25	0.26			0.08	0.06	0.05	0.01								
26															1.05	0.47		0.10	0.07	0.01											
27									0.01	0.27	0.06	0.18	0.01							0.01											
28		0.03	0.01	0.02	0.08	0.04	0.17	0.15																							
29																0.05	0.04	0.17	0.01	0.10	0.07	0.02									
30		0.01																								0.02	0.03				
Sum	0.20	0.28	0.24	0.19	0.38	0.24	0.37	0.26	0.08	0.20	0.34	0.14	0.35	0.15	1.83	1.02	0.64	0.29	0.53	0.34	0.15	0.48	0.28	0.25	Sum						

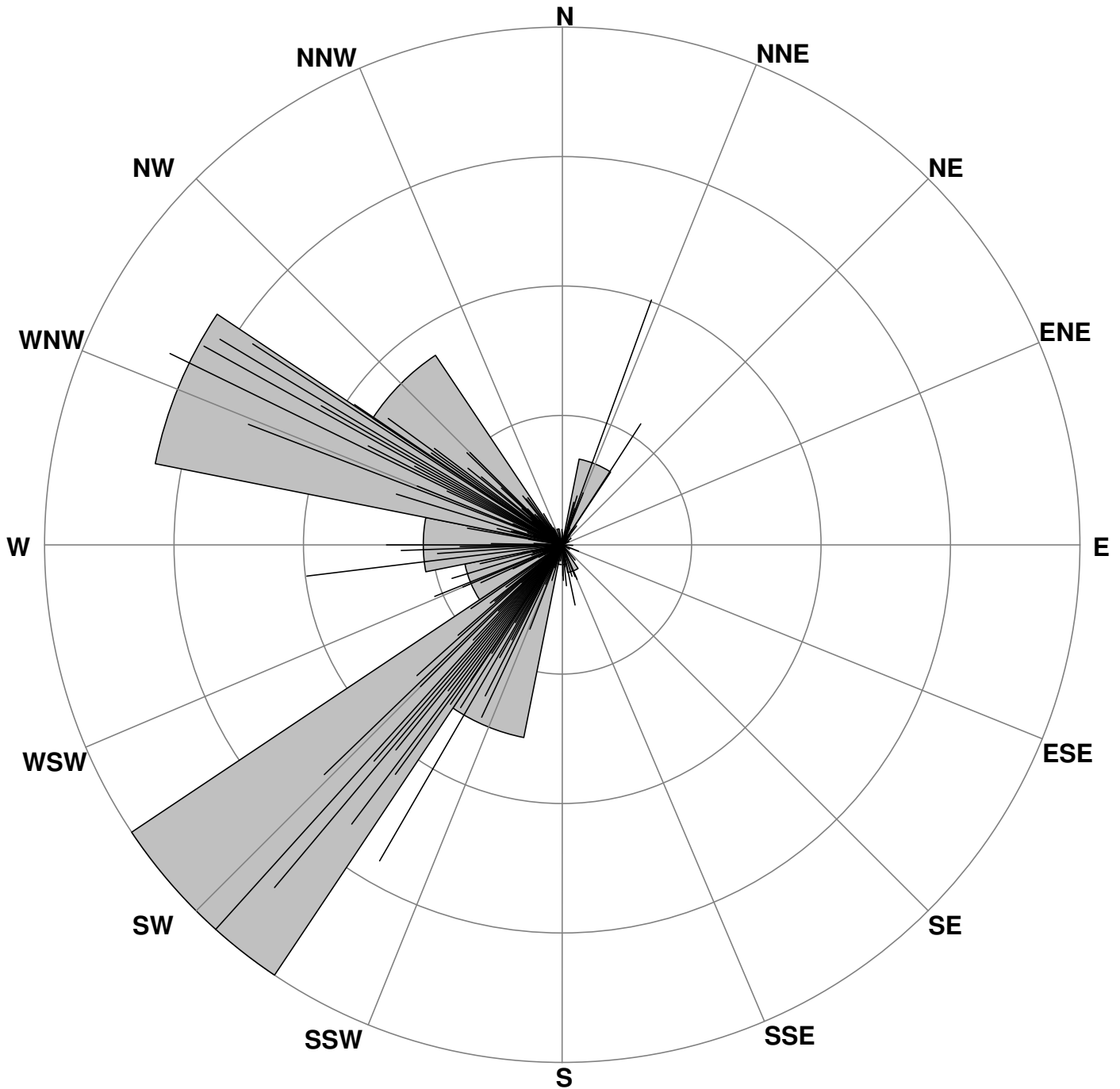
During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA

June 2013: Westford



**Wind Rose: June 2013
Westford**



**Maximum direction of wind: 17.0 miles from 222°
Maximum sector of wind: 138.1 miles from SW
473.2 total miles of wind**