

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

July 2014

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 dustsm, hz 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	88.1	69.7	78.9*	78.1	71	79	0	14	.....	0	T	0.0	29.80	29.57	29.672	2.3	2.3	215	22	SW	10	216	279
2	84.7	67.4	76.0	75.5	70	83	0	11	..3.....	0	0.05	0.0	29.81	29.63	29.719	1.6	1.4	226	18	SSW	8	269	192	
3	83.8	63.2	73.5	71.2	67	87	0	9	..3.....	0	0.91	0.0	29.89	29.78	29.843	0.6	0.3	263	16	N	8	299	205	
4	65.6	57.2	61.4	62.0	60	94	3	0	.....	0	0.08	0.0	29.97	29.84	29.923	0.2	0.2	9	11	N	6	306	86
5	77.8	54.4	66.1	65.1	53	65	0	1	.....	0	0.00	0.0	29.99	29.86	29.916	2.5	2.4	296	25	W	12	298	250
6	80.3	59.8	70.1	69.9	55	60	0	5	.....	0	0.00	0.0	29.89	29.73	29.812	2.0	1.9	255	22	WNW	12	296	300
7	70.5	60.7	65.6	66.3	61	85	0	1	.....	0	0.22	0.0	29.74	29.55	29.626	0.7	0.7	209	14	SW	7	218	67
8	84.2	65.0	74.6	73.7	68	84	0	10	..3.....	0	0.48	0.0	29.66	29.42	29.552	2.0	2.0	215	22	W	10	269	249	
9	77.3	59.1	68.2	69.0	62	78	0	3	.....	0	0.00	0.0	29.85	29.47	29.673	2.2	2.0	238	20	SW	12	233	215
10	74.1	50.6	62.3	62.9	53	72	2	0	.....	0	0.00	0.0	30.12	29.84	30.022	1.0	1.0	284	15	W	8	299	300
11	77.9	47.4	62.7	62.3	53	75	2	0	.....	0	0.00	0.0	30.20	30.11	30.154	0.1	0.1	292	9	W	4	267	302
12	83.2	49.6	66.4	67.8	59	77	0	2	.....	0	0.00	0.0	30.15	29.96	30.072	0.3	0.3	215	14	SE	4	207	297
13	73.9	67.7	70.8	70.8	67	87	0	6	.....	0	0.05	0.0	29.96	29.67	29.790	2.8	2.7	212	21	SSW	10	211	77
14	82.1	60.1	71.1	70.3	63	80	0	6	.....	0	0.01	0.0	29.81	29.72	29.771	0.6	0.5	258	13	W	7	272	252
15	78.0	59.0	68.5	68.8	66	92	0	4	..3.....	0	0.71	0.0	29.76	29.61	28.753	0.3	0.3	222	16	SSE	7	212	126	
16	77.1	55.7	66.4	66.7	60	80	0	2	.....	0	0.19	0.0	29.81	29.66	29.718	0.3	0.3	293	14	WNW	9	296	240
17	72.3	53.9	63.1	62.1	55	79	2	0	.....	0	0.00	0.0	30.02	29.81	29.903	0.5	0.5	276	13	W	7	301	234
18	77.9	49.9	63.9	63.6	55	77	1	0	.....	0	0.00	0.0	30.18	30.02	30.117	0.3	0.2	266	11	W	5	300	276
19	78.7	51.0	64.8	64.6	58	82	0	0	.....	0	0.00	0.0	30.22	30.12	30.170	0.1	0.1	228	9	E	2	224	207
20	80.5	55.1	67.8	68.2	59	74	0	3	.....	0	0.00	0.0	30.13	30.03	30.084	0.3	0.3	219	11	SW	4	235	288
21	84.5	59.0	71.8	70.9	61	72	0	7	.....	0	0.00	0.0	30.11	30.02	30.061	0.2	0.2	221	11	SW	5	212	282
22	85.8	61.4	73.6	73.6	66	79	0	9	.....	0	0.00	0.0	30.05	29.82	29.969	0.3	0.2	239	11	SW	6	220	268
23	80.7	63.0	71.8	71.1	68	91	0	7	..3.....	0	0.67	0.0	29.83	29.60	29.727	1.2	0.9	234	22	W	10	307	90	
24	70.5	51.0	60.8	61.6	55	79	4	0	.....	0	0.00	0.0	29.88	29.77	29.846	0.3	0.3	332	13	WNW	6	290	290
25	77.5	50.6	64.0	64.3	56	75	0	0	.....	0	0.00	0.0	29.93	29.84	29.885	0.7	0.7	256	14	W	6	307	246
26	78.1	54.5	66.3	65.3	58	78	0	2	.....	0	0.00	0.0	29.89	29.76	29.822	0.8	0.7	248	14	W	8	285	223
27	79.3	60.4	69.9	64.8	62	91	0	5	..3.....	0	1.13	0.0	29.75	29.54	29.620	0.9	0.9	217	17	SSW	9	205	120	
28	67.2	55.7	61.4	61.1	60	98	3	0	..2.....	0	0.76	0.0	29.60	29.42	29.520	0.5	0.5	20	21	NNE	6	21	43	
29	69.4	49.0	59.2*	58.6	54	86	6	0	.....	0	0.00	0.0	29.90	29.58	29.760	0.2	0.2	296	14	WNW	4	315	192
30	74.8	46.3*	60.6	59.8	53	82	4	0	.....	0	0.00	0.0	29.97	29.89	29.929	0.3	0.3	222	11	SW	5	227	250
31	71.7	53.0	62.3	61.0	57	89	2	0	..3.....	0	0.52	0.0	30.09	29.92	29.971	0.9	0.9	215	27	SW	12	219	173	
Sum	Sum	-----	-----	---	----		Ttl	Ttl					For the month:						---					
2407	1760						29	107	Number of Days	5.78	0.0	30.22	29.42	29.819	0.9	0.7	241	27	SW	12	296			
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip	Season Ttl		Date	Date	-----	----	----	----	Date	Date	Avg				
77.7	56.8	67.2	66.8	60	80.9	----	----		≥.01 inch	13	28.25	0.0	19	8	-----	----	----	----	31	6	213			
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			29	183	Thunder	7	Precipitation		Snow, Ice Plts												
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----			Heavy Fog	1	1.13	27	0.0	-	0			-							
0	0	0	0	----	----			Clear	3	Partly Cloudy		18	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: 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

July 2014: Westford

Hour	Wind									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	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
JUL 01									JUL 02									JUL 03																					
01	0	29.79	0.00	70	67	89	18	0	5	0	29.63	0.00	74	70	87	20	3	7	0	29.80	0.00	70	68	92	20	0	8												
04	0	29.75	0.00	70	67	91	21	0	6	0	29.69	0.00	71	67	89	20	0	6	0	29.79	0.00	67	66	96	21	1	5												
07	97	29.76	0.00	72	69	88	21	1	9	53	29.72	0.00	69	68	96	19	0	8	111	29.86	0.00	69	68	96	27	0	6												
10	561	29.69	0.00	79	71	78	20	3	13	232	29.72	0.00	79	72	77	21	2	8	715	29.88	0.00	76	69	77	24	0	4												
13	807	29.64	0.00	84	73	71	21	4	16	174	29.76	0.00	80	72	78	25	3	10	211	29.88	0.00	78	67	70	32	0	4												
16	635	29.60	0.00	87	72	61	22	9	17	243	29.72	0.00	80	68	67	25	0	6	378	29.82	0.00	83	67	59	02	0	1												
19	28	29.58	0.00	81	73	75	18	2	13	132	29.73	0.00	78	69	73	18	3	13	0	29.87	0.13	65	64	96	25	2	16												
22	0	29.63	0.00	79	73	82	25	2	15	0	29.77	0.00	71	67	86	21	3	10	0	29.86	0.00	64	63	97	06	0	0												
JUL 04									JUL 05									JUL 06																					
01	0	29.86	0.00	63	63	98	06	0	0	0	29.91	0.00	58	54	88	30	1	8	0	29.89	0.00	63	52	67	21	0	10												
04	0	29.85	0.06	64	63	98	32	0	0	0	29.91	0.00	54	48	80	28	0	10	0	29.88	0.00	64	53	66	21	2	7												
07	19	29.91	0.00	61	61	98	05	0	1	125	29.95	0.00	56	49	78	32	1	9	105	29.88	0.00	64	54	70	21	1	7												
10	86	29.95	0.00	61	60	96	34	0	0	250	29.99	0.00	60	51	70	30	2	13	656	29.84	0.00	72	58	60	22	1	15												
13	299	29.95	0.00	65	60	85	02	1	11	923	29.95	0.00	72	53	51	30	4	10	867	29.80	0.00	78	61	56	25	3	11												
16	47	29.96	0.00	61	59	93	31	2	7	782	29.88	0.00	77	56	48	30	6	19	673	29.76	0.00	80	57	46	26	7	15												
19	248	29.94	0.00	62	59	90	05	0	0	178	29.87	0.00	75	57	54	29	4	23	93	29.75	0.00	75	54	48	28	4	15												
22	0	29.93	0.00	57	56	94	05	0	0	0	29.89	0.00	68	55	63	28	6	13	0	29.75	0.00	64	54	71	22	0	0												
JUL 07									JUL 08									JUL 09																					
01	0	29.73	0.00	62	54	75	20	0	0	0	29.59	0.00	68	67	95	20	1	8	0	29.50	0.00	66	65	96	23	2	10												
04	0	29.69	0.00	62	55	78	20	0	0	0	29.62	0.00	68	66	96	21	0	9	0	29.54	0.00	65	64	95	09	0	6												
07	26	29.67	0.00	62	56	82	20	2	7	42	29.63	0.00	67	66	98	24	0	7	33	29.61	0.00	66	62	88	22	4	15												
10	285	29.64	0.00	68	59	73	19	1	7	661	29.66	0.00	76	69	79	19	5	15	668	29.67	0.00	71	59	66	21	6	15												
13	72	29.59	0.00	68	63	86	21	1	8	893	29.62	0.00	81	72	74	23	2	11	376	29.72	0.00	75	60	59	23	6	14												
16	86	29.58	0.05	67	66	95	20	0	7	220	29.55	0.00	81	70	69	19	2	10	229	29.73	0.00	73	63	73	22	0	0												
19	97	29.56	0.00	70	69	95	18	0	6	54	29.47	0.00	78	69	75	20	2	11	79	29.75	0.00	72	62	70	25	0	1												
22	0	29.59	0.00	70	68	95	20	0	5	0	29.43	0.16	69	66	90	19	3	17	0	29.81	0.00	67	56	67	29	1	9												
JUL 10									JUL 11									JUL 12																					
01	0	29.87	0.00	61	54	80	28	1	8	0	30.13	0.00	50	49	96	06	0	0	0	30.15	0.00	52	51	96	30	0	0												
04	0	29.92	0.00	59	53	82	29	1	14	0	30.15	0.00	48	47	97	06	0	0	0	30.13	0.00	50	49	97	30	0	0												
07	35	29.99	0.00	58	53	84	31	0	7	32	30.19	0.00	51	50	98	18	0	0	35	30.14	0.00	55	54	98	25	0	0												
10	784	30.05	0.00	63	52	69	29	4	12	673	30.20	0.00	70	58	65	33	0	0	684	30.12	0.00	73	61	67	21	0	6												
13	939	30.06	0.00	69	54	60	25	1	9	949	30.17	0.00	74	55	52	22	0	2	921	30.08	0.00	80	60	50	26	0	7												
16	687	30.06	0.00	73	53	49	28	0	9	680	30.15	0.00	76	51	42	31	0	5	684	30.02	0.00	82	64	55	24	0	7												
19	165	30.07	0.00	69	55	60	07	0	2	144	30.12	0.00	74	57	57	30	0	0	72	29.99	0.00	79	68	69	21	0	0												
22	0	30.11	0.00	54	51	89	06	0	0	0	30.14	0.00	56	53	91	30	0	0	0	29.98	0.00	68	65	90	22	0	6												
JUL 13									JUL 14									JUL 15																					
01	0	29.95	0.00	68	63	84	23	1	8	0	29.73	0.00	69	67	95	22	0	10	0	29.75	0.00	62	61	96	07	0	0												
04	0	29.89	0.00	69	64	84	20	0	10	0	29.76	0.00	64	61	90	23	0	0	0	29.70	0.00	60	59	97	08	0	0												
07	118	29.86	0.00	70	64	81	22	3	13	46	29.79	0.00	65	64	95	21	0	1	77	29.69	0.00	64	63	98	08	0	0												
10	91	29.81	0.00	72	66	82	21	3	14	682	29.80	0.00	76	64	67	24	3	10	320	29.65	0.00	76	70	82	21	0	2												
13	167	29.76	0.00	73	68	85	21	4	16	998	29.78	0.00	80	67	64	29	2	8	471	22.52	0.00	77	70	79	22	1	7												
16	100	29.70	0.00	72	69	90	20	2	14	671	29.76	0.00	81	64	56	28	0	3	69	29.61	0.52	73	70	93	24	0	9												
19	37	29.68	0.00	71	69	92	22	4	18	60	29.76	0.00	70	61	73	03	0	0	118	29.63	0.00	73	72	95	21	0	0												
22	0	29.71	0.00	71	69	94	21	7	13	0	29.78	0.00	64	59	85	02	0	0	0	29.66	0.00	68	67	96	21	0	0												
JUL 16									JUL 17									JUL 18																					
01	0	29.67	0.00	67	66	94	21	0	1	0	29.82	0.00	55	53	92	22	0	0	0	30.03	0.00	55	52	89	25	0	0												
04	0	29.67	0.00	64	63	98	28	0	0	0	29.84	0.00	54	52	92	27	0	0	0	30.07	0.00	51	49	95	20	0	0												
07	40	29.71	0.00	61	60	97	19	0	0	30	29.88	0.00	55	54	96	01	0	0	40	30.11	0.00	55	53	91	19	0	7												
10	506	29.72	0.00	70	60	70	30	1	8	726	29.90	0.00	68	57	69	22	1	8	633	30.15	0.00	68	57	67	22	0	8												
13	824	29.72	0.00	74	60	61	26	0	6	963	29.90	0.00	69	54	60	27	0	10	997	30.14	0.00	72	57	59	27	2	8												
16	696	29.70	0.00	76	58	55	32	2	8	322	29.91	0.00	69	55	62	29	0	7	211	30.12	0.00	75	58	56	31	0	4												
19	77	29.74	0.00	66	59	78	34	0	0	33	29.94	0.00	68	55	62	28	0	2	105	30.13	0.00	74	60	63	03	0	0												
22	0	29.78	0.00	57	55	92	26	0	0	0	30.00	0.00	57	53	88	26	0	0	0	30.17	0.00	56	55	94	03	0	0												

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.37	0.51	0.60	0.65	0.70	0.74	0.77	0.80	0.82	0.83	0.84	0.88
Ended: Date	03	03	03	03	03	03	03	03	03	03	03	03
Ended: Time	1909	1913	1917	1921	1928	1934	1944	1956	2006	2006	2006	2006

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

July 2014: Westford

Hour	JUL 19									JUL 20									JUL 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	30.18	0.00	53	52	96	03	0	0	0	30.12	0.00	60	58	94	15	0	0	0	30.07	0.00	62	56	82	21	0	0
04	0	30.19	0.00	52	51	97	03	0	0	0	30.10	0.00	56	54	96	15	0	0	0	30.06	0.00	60	55	84	21	0	1
07	76	30.21	0.00	54	54	98	03	0	0	46	30.12	0.00	58	57	97	15	0	0	100	30.08	0.00	64	58	83	21	0	1
10	571	30.21	0.00	73	62	69	27	0	0	615	30.11	0.00	74	62	68	34	0	9	613	30.10	0.00	73	63	72	19	0	10
13	853	30.17	0.00	77	62	59	30	1	8	898	30.08	0.00	78	60	54	21	0	1	837	30.08	0.00	80	65	61	15	0	2
16	218	30.14	0.00	76	62	63	24	0	5	682	30.05	0.00	80	61	52	21	0	3	657	30.04	0.00	84	63	48	20	0	1
19	67	30.14	0.00	69	64	83	25	0	0	93	30.04	0.00	75	61	62	20	0	1	62	30.03	0.00	79	68	69	26	0	0
22	0	30.14	0.00	63	59	88	15	0	0	0	30.06	0.00	66	57	73	21	0	1	0	30.04	0.00	69	63	81	22	0	0
JUL 22									JUL 23									JUL 24									
01	0	30.04	0.00	64	62	92	21	0	0	0	29.82	0.00	69	66	93	20	0	4	0	29.77	0.00	62	61	94	34	0	0
04	0	30.03	0.00	63	62	96	21	0	1	0	29.77	0.00	71	68	92	19	0	8	0	29.79	0.00	59	53	81	02	1	10
07	39	30.03	0.00	65	63	94	21	0	3	67	29.74	0.00	72	69	90	22	4	13	97	29.85	0.00	56	53	89	31	0	2
10	601	30.04	0.00	78	69	73	18	0	5	257	29.72	0.00	78	71	80	22	6	14	744	29.87	0.00	64	53	68	29	0	4
13	854	29.98	0.00	82	67	61	25	1	7	121	29.65	0.00	80	73	81	22	0	6	464	29.88	0.00	66	54	65	29	2	12
16	534	29.93	0.00	85	68	56	21	0	3	18	29.68	0.24	71	70	96	31	0	0	663	29.86	0.00	69	57	66	32	1	10
19	104	29.88	0.00	80	72	76	21	0	0	76	29.71	0.00	69	68	96	28	0	5	77	29.85	0.00	67	56	67	04	0	0
22	0	29.87	0.00	71	68	90	20	0	5	0	29.77	0.00	65	63	93	30	0	5	0	29.87	0.00	52	50	94	04	0	0
JUL 25									JUL 26									JUL 27									
01	0	29.89	0.00	51	50	96	20	0	0	0	29.89	0.00	58	53	82	21	0	0	0	29.75	0.00	61	57	86	22	0	6
04	0	29.89	0.00	51	50	95	21	0	0	0	29.86	0.00	55	53	95	21	0	0	0	29.69	0.00	62	60	93	20	3	9
07	54	29.90	0.00	56	52	88	21	0	6	37	29.85	0.00	58	55	92	20	0	4	67	29.64	0.00	63	61	95	21	0	8
10	322	29.93	0.00	67	58	72	22	3	9	673	29.84	0.00	70	62	75	20	0	7	35	29.61	0.27	62	61	96	22	1	11
13	752	29.90	0.00	74	60	61	24	1	7	424	29.82	0.00	72	59	64	24	1	9	677	29.60	0.00	71	68	90	24	0	11
16	526	29.86	0.00	77	62	59	25	2	11	250	29.79	0.00	75	57	54	26	1	10	144	29.55	0.00	75	65	71	20	1	7
19	88	29.84	0.00	72	59	63	27	0	4	74	29.77	0.00	72	64	75	24	0	0	28	29.57	0.00	65	64	95	21	0	0
22	0	29.88	0.00	66	55	68	28	3	13	0	29.78	0.00	62	59	92	24	0	0	0	29.60	0.00	61	60	97	14	0	0
JUL 28									JUL 29									JUL 30									
01	0	29.60	0.00	59	58	98	14	0	0	0	29.60	0.00	56	55	98	30	0	6	0	29.91	0.00	48	47	97	32	0	0
04	0	29.56	0.00	59	59	98	05	0	0	0	29.63	0.00	56	54	96	30	0	0	0	29.93	0.00	47	46	98	32	0	0
07	42	29.57	0.00	62	61	98	05	0	0	40	29.69	0.00	52	51	97	25	0	0	83	29.96	0.00	50	50	98	32	0	0
10	35	29.53	0.04	63	63	98	05	0	5	584	29.75	0.00	61	56	84	28	0	0	413	29.96	0.00	65	62	90	32	0	0
13	250	29.47	0.00	65	65	99	02	2	9	348	29.79	0.00	64	55	73	26	1	2	909	29.93	0.00	72	56	57	22	4	8
16	42	29.44	0.00	64	63	96	01	0	10	341	29.82	0.00	68	57	67	04	0	3	649	29.90	0.00	75	57	55	24	1	6
19	33	29.47	0.05	61	60	98	00	1	11	109	29.86	0.00	63	57	83	32	0	0	65	29.91	0.00	65	58	79	21	0	0
22	0	29.55	0.04	58	57	98	04	0	1	0	29.90	0.00	51	50	96	32	0	0	0	29.93	0.00	55	53	92	21	0	0
JUL 31																											
01	0	29.94	0.00	55	53	91	21	0	0																		
04	0	29.94	0.00	57	56	96	21	0	0																		
07	70	29.97	0.00	56	55	98	20	0	0																		
10	392	29.96	0.00	66	60	81	20	2	8																		
13	84	29.93	0.00	67	58	73	21	2	10																		
16	613	29.97	0.00	68	60	76	20	3	11																		
19	79	29.99	0.00	67	62	84	21	0	0																		
22	0	30.03	0.00	56	55	97	21	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	0	29.850	61	58	91	0.3	23	0.3
04	0	29.848	60	57	92	0.3	23	0.2
07	61	29.870	61	58	92	0.6	22	0.5
10	486	29.873	70	62	75	1.4	23	1.2
13	623	29.622	74	62	68	1.7	25	1.3
16	411	29.828	75	62	65	1.3	25	1.0
19	86	29.827	71	63	76	0.7	24	0.5
22	0	29.852	63	59	88	0.8	24	0.7

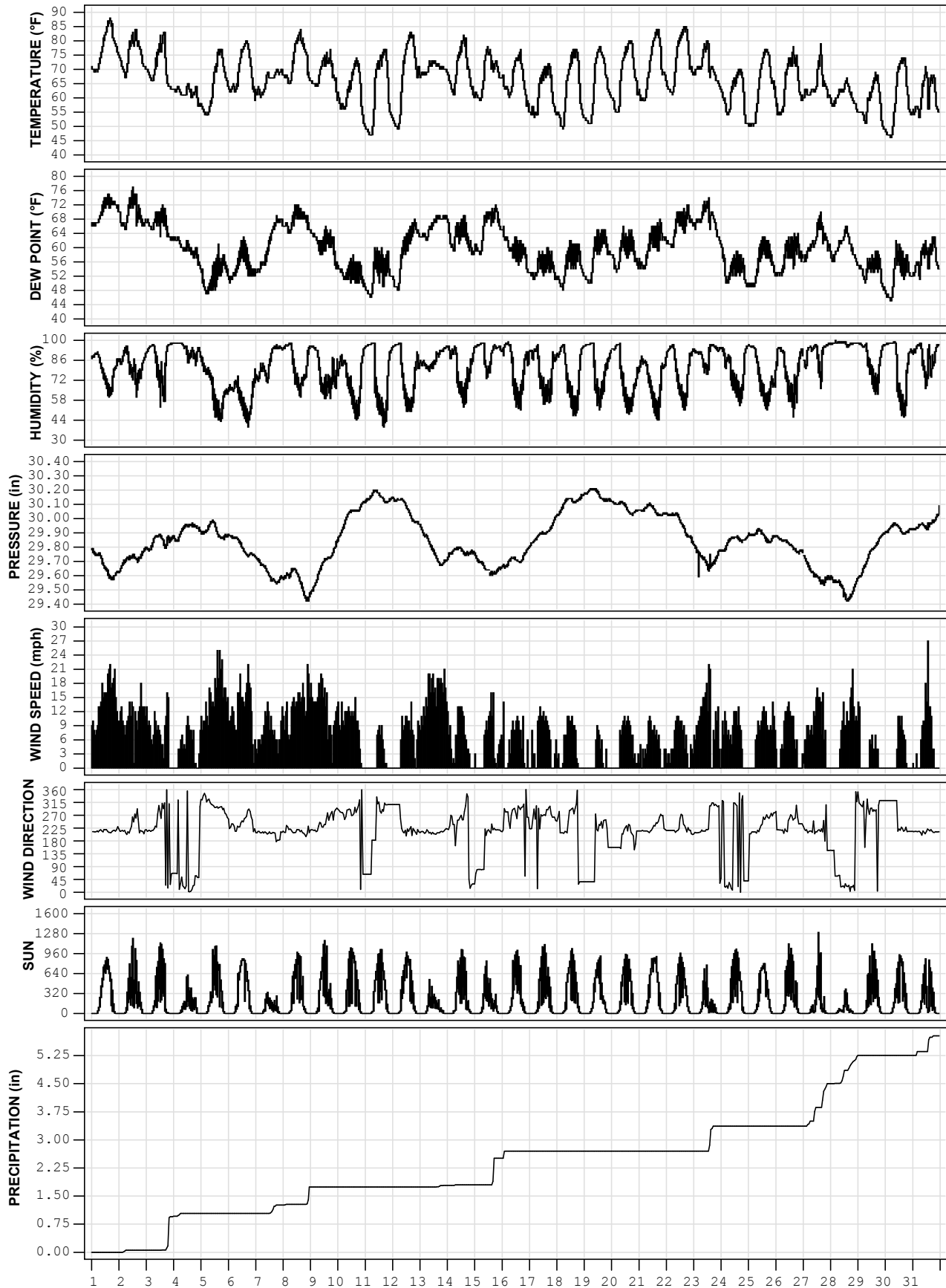
HOURLY PRECIPITATION (Water Equivalent) July 2014: Westford

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				0.01	0.02	0.02																		02	
03														0.01				0.05	0.06	0.75	0.03			03	
04				0.02	0.02	0.04																	0.01	04	
05																								05	
06																								06	
07													0.01	0.03	0.06	0.09		0.03						07	
08		0.01	0.01																		0.01	0.11	0.34	08	
09																								09	
10																								10	
11																								11	
12																								12	
13															0.01		0.01	0.02			0.01			13	
14							0.01																	14	
15																0.09	0.62							15	
16		0.18	0.01																					16	
17																								17	
18																								18	
19																								19	
20																								20	
21																								21	
22																								22	
23														0.16	0.42	0.02	0.07							23	
24																								24	
25																								25	
26																								26	
27				0.04	0.02	0.07											0.19	0.24	0.06	0.06	0.08			27	
28				0.01					0.01	0.26	0.11	0.16	0.01			0.05	0.07	0.04	0.04	0.04	0.02	0.03	0.07	0.04	28
29																									29
30																									30
31				0.10											0.32	0.06			0.04					31	
Sum	0.00	0.19	0.02	0.18	0.06	0.13	0.01	0.00	0.01	0.32	0.22	0.16	0.02	0.52	0.55	0.25	0.96	0.42	0.16	0.85	0.15	0.14	0.41	0.05	Sum

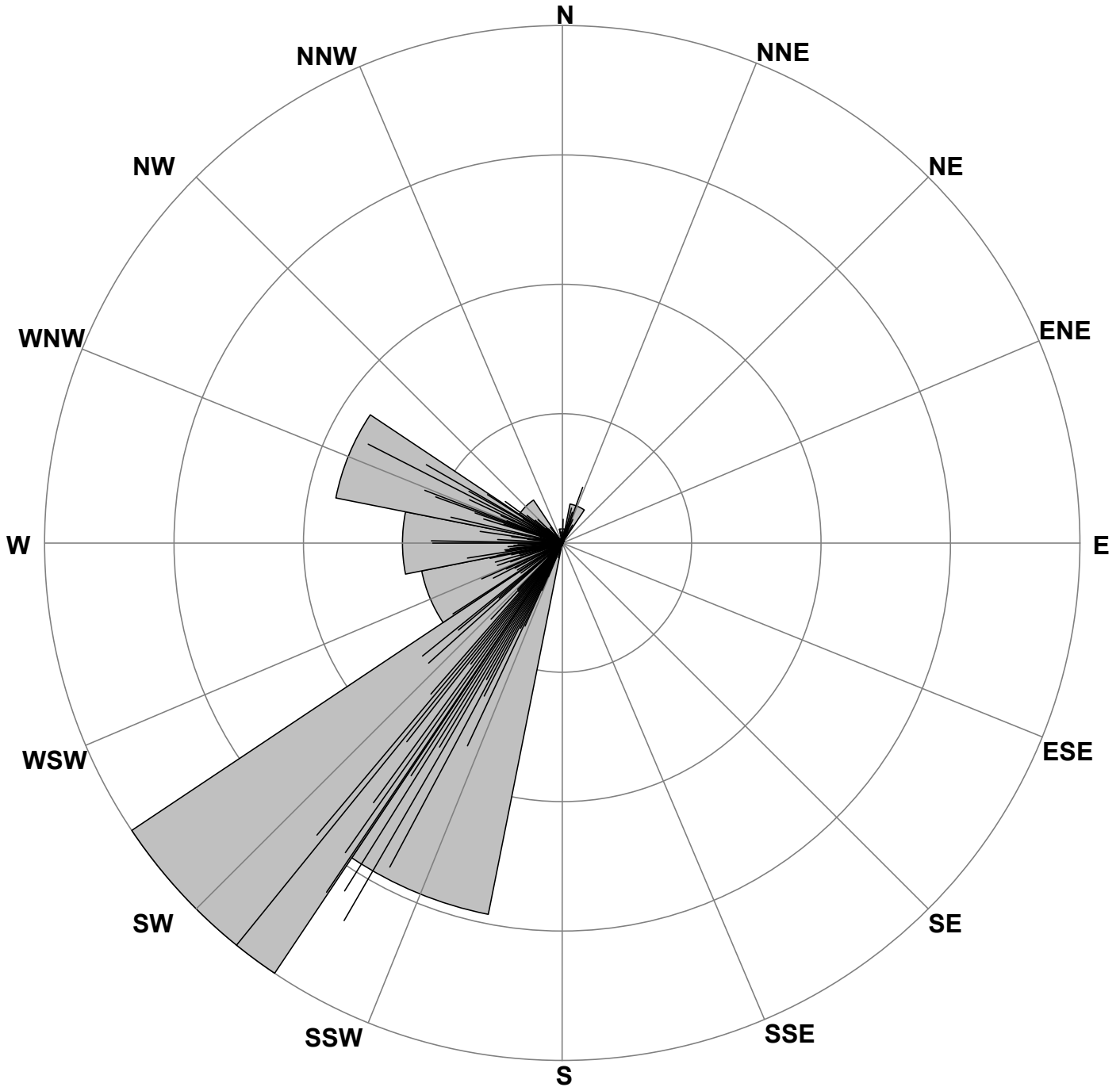
During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA

July 2014: Westford



**Wind Rose: July 2014
Westford**



**Maximum direction of wind: 31.4 miles from 219°
Maximum sector of wind: 215.2 miles from SW
640.8 total miles of wind**