

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

July 2012

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	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	79.2	59.5	69.3	68.7	61	78	0	5	.....	0	T	0.0	29.82	29.64	29.737	0.7	0.7	313	14	WNW	8	294	270
2	80.5	56.5	68.5	67.7	59	75	0	4	.....	0	0.01	0.0	29.88	29.80	29.839	0.8	0.8	302	13	WNW	7	298	286
3	81.1	53.0	67.0	66.3	57	75	0	2	.....	0	0.01	0.0	29.92	29.73	29.841	0.4	0.4	314	12	NW	8	308	289
4	84.5	62.0	73.3	70.7	65	83	0	9	..3.....	0	0.59	0.0	29.75	29.60	29.684	1.1	0.9	244	14	SW	8	249	235	
5	76.2	58.1	67.1	66.7	62	84	0	2	.....	0	0.01	0.0	29.87	29.70	29.799	0.4	0.3	345	10	NW	7	311	184
6	84.8	55.5	70.2	70.6	63	79	0	6	.....	0	0.00	0.0	29.90	29.75	29.827	0.5	0.4	219	13	SSW	6	235	259
7	81.9	66.1	74.0	73.9	64	72	0	9	.....	0	T	0.0	29.80	29.71	29.748	1.2	1.2	293	14	WNW	8	309	214
8	75.0	55.3	65.1	66.8	54	65	0	0	.....	0	0.00	0.0	29.87	29.76	29.825	1.7	1.7	312	17	WNW	10	297	295
9	74.1	49.6	61.8	62.1	50	66	3	0	.....	0	0.00	0.0	29.96	29.85	29.920	1.0	0.9	310	18	NW	8	314	307
10	79.5	47.7	63.6	64.3	52	67	1	0	.....	0	0.00	0.0	30.04	29.95	29.987	0.7	0.7	261	14	WNW	7	276	299
11	83.8	51.3	67.6	67.2	55	69	0	3	.....	0	0.00	0.0	30.14	30.04	30.100	0.3	0.2	287	9	WNW	5	301	296
12	88.1	52.8	70.4	70.6	56	63	0	6	.....	0	0.00	0.0	30.13	30.03	30.082	0.5	0.5	243	12	WSW	6	232	298
13	90.6	55.1	72.8	72.8	58	63	0	8	.....	0	0.00	0.0	30.13	30.03	30.079	0.6	0.6	237	12	SW	6	221	295
14	90.9	60.1	75.5	75.2	62	67	0	11	.....	0	0.00	0.0	30.10	30.00	30.049	0.9	0.9	230	12	W	6	238	271
15	86.8	65.2	76.0	73.9	65	75	0	11	.....	0	0.01	0.0	30.03	29.83	29.941	1.1	1.1	219	17	SSW	8	230	167
16	84.4	65.3	74.9	73.0	68	84	0	10	.....	0	0.02	0.0	29.83	29.73	29.771	0.7	0.6	288	15	WNW	6	309	203
17	86.3	66.8	76.6*	72.6	68	86	0	12	..3.....	0	0.17	0.0	29.74	29.52	29.630	0.7	0.7	225	17	SSW	7	236	99	
18	77.3	53.4	65.4	68.1	60	76	0	0	.....	0	0.00	0.0	29.93	29.69	29.812	0.8	0.7	318	18	NW	11	309	254
19	73.6	48.0	60.8*	60.6	51	73	4	0	.....	0	0.00	0.0	30.03	29.92	29.974	0.7	0.7	321	18	WNW	9	307	278
20	77.3	46.9*	62.1	62.0	51	70	3	0	.....	0	0.00	0.0	30.08	30.00	30.035	0.4	0.3	313	13	NW	7	309	289
21	82.5	48.4	65.5	65.9	54	70	0	1	.....	0	0.00	0.0	30.07	29.95	30.013	0.3	0.3	218	12	W	6	224	271
22	85.9	62.8	74.4	73.4	60	64	0	10	.....	0	T	0.0	30.04	29.93	29.985	1.6	1.6	219	16	W	8	214	257
23	87.7	64.0	75.8	74.0	64	73	0	11	..3.....	0	0.92	0.0	29.96	29.59	29.819	2.4	2.3	218	27	NNW	14	212	235	
24	77.0	59.6	68.3	67.9	63	84	0	4	..3.....	0	0.62	0.0	29.74	29.54	29.613	1.8	1.4	293	22	NW	11	310	170	
25	75.3	56.2	65.8	64.3	55	73	0	1	.....	0	0.00	0.0	29.88	29.72	29.792	0.7	0.7	314	17	WNW	9	311	266
26	66.8	59.0	62.9	62.9	59	87	2	0	.....	0	0.19	0.0	29.73	29.57	29.624	0.2	0.2	212	8	SW	4	193	49
27	80.0	58.3	69.1	68.8	63	83	0	4	.....	0	0.00	0.0	29.89	29.60	29.749	0.3	0.3	338	12	NW	5	308	209
28	81.9	56.4	69.2	67.9	59	77	0	4	.....	0	0.00	0.0	29.96	29.88	29.932	0.1	0.1	11	9	ENE	2	317	214
29	83.8	55.7	69.8	68.6	61	80	0	5	..3.....	0	0.00	0.0	30.00	29.93	29.959	0.1	0.1	315	10	W	5	22	268	
30	85.2	58.2	71.7	72.0	61	72	0	7	.....	0	0.00	0.0	30.03	29.94	29.987	0.9	0.9	214	11	SSW	6	211	268
31	85.8	65.6	75.7	74.6	62	67	0	11	.....	0	0.00	0.0	29.98	29.81	29.899	2.5	2.5	213	17	SW	10	222	277
Sum	Sum	-----	-----	---	----		Ttl	Ttl			For the month:											---		
2528	1772						13	156	Number of Days		2.55	0.0	30.14	29.52	29.873	0.8	0.6	262	27	NNW	14	212		
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg				
81.5	57.2	69.4	68.8	59	74.2	----	----	≥.01 inch	10	23.42	0.0	11	17	-----	----	----	---	23	23	244				
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			13	282	Thunder	5	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	1.54	23-24	0.0	-													
2	0	0	0	----	----	Clear	7	Partly Cloudy			19	Cloudy		5										

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

July 2012: 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																																																																																																																																																																																																										
JUL 01																						JUL 02																						JUL 03																																																																																																																																																																																			
01	0	29.64	0.00	62	58	86	05	0	0	0	29.82	0.00	60	57	91	34	0	1	0	29.86	0.00	55	53	93	04	0	0	04	0	29.66	0.00	60	58	92	05	0	0	0	29.83	0.00	59	56	93	34	0	0	0	29.85	0.00	54	53	95	04	0	0	07	109	29.71	0.00	64	62	95	05	0	0	37	29.84	0.00	60	59	95	34	0	0	35	29.89	0.00	57	56	96	22	1	4	10	439	29.75	0.00	72	62	72	05	0	5	696	29.88	0.00	71	60	69	29	0	9	679	29.89	0.00	73	61	65	20	0	1	13	918	29.76	0.00	77	64	65	29	0	7	596	29.85	0.00	77	60	56	30	2	6	886	29.88	0.00	77	56	48	30	5	9	16	666	29.77	0.00	79	64	59	32	3	12	696	29.82	0.00	80	62	54	31	1	8	696	29.83	0.00	80	56	43	02	2	8	19	200	29.78	0.00	77	60	57	07	0	3	62	29.80	0.00	76	58	55	28	0	6	98	29.78	0.00	73	62	67	13	0	0	22	0	29.80	0.00	63	59	88	06	0	2	0	29.86	0.00	59	55	86	04	0	0	0	29.75	0.00	61	56	82	13	0	0
JUL 04																						JUL 05																						JUL 06																																																																																																																																																																																			
01	0	29.74	0.07	63	58	86	19	0	0	0	29.72	0.00	65	64	96	10	0	0	0	29.86	0.00	57	56	95	35	0	0	04	0	29.72	0.32	62	60	93	22	1	4	0	29.72	0.00	62	61	95	01	1	8	0	29.86	0.00	56	55	96	35	0	0	07	107	29.72	0.00	63	62	95	22	1	6	53	29.78	0.00	62	60	93	05	0	2	39	29.88	0.00	60	59	97	35	0	2	10	654	29.71	0.00	75	69	80	24	0	6	299	29.82	0.00	68	61	80	02	0	5	659	29.87	0.00	74	66	74	12	0	8	13	835	29.67	0.00	80	70	71	22	1	8	541	29.82	0.00	72	63	73	30	4	8	840	29.82	0.00	81	66	61	21	2	9	16	225	29.62	0.00	84	69	60	29	7	14	758	29.83	0.00	75	64	71	33	0	5	343	29.78	0.00	82	67	59	21	0	7	19	0	29.64	0.00	74	69	85	01	0	4	98	29.84	0.00	73	64	73	34	0	1	200	29.78	0.00	81	68	66	21	0	3	22	0	29.68	0.00	63	61	93	27	0	0	0	29.86	0.00	60	57	90	35	0	0	0	29.77	0.00	72	66	80	22	0	2
JUL 07																						JUL 08																						JUL 09																																																																																																																																																																																			
01	0	29.76	0.00	72	66	81	22	0	0	0	29.76	0.00	65	59	82	32	0	0	0	29.86	0.00	55	50	84	29	0	0	04	0	29.74	0.00	70	66	86	23	0	0	0	29.78	0.00	66	55	68	05	0	6	0	29.87	0.00	52	48	85	20	0	0	07	107	29.78	0.00	71	65	81	31	0	2	79	29.83	0.00	58	54	86	03	0	0	33	29.92	0.00	53	51	94	20	0	0	10	355	29.74	0.00	76	65	69	26	1	7	784	29.83	0.00	68	58	69	31	3	13	652	29.94	0.00	68	54	59	30	0	8	13	441	29.75	0.00	77	66	69	29	5	10	881	29.85	0.00	73	53	50	33	0	13	868	29.94	0.00	70	47	45	30	5	12	16	698	29.72	0.00	81	62	54	31	6	13	867	29.83	0.00	73	54	51	30	4	11	673	29.93	0.00	74	48	41	30	1	6	19	39	29.73	0.00	75	61	62	30	0	5	220	29.83	0.00	71	51	49	30	5	13	206	29.93	0.00	72	50	47	05	0	2	22	0	29.76	0.00	69	61	74	26	0	0	0	29.85	0.00	59	50	72	26	0	0	0	29.95	0.00	54	47	79	31	0	0
JUL 10																						JUL 11																						JUL 12																																																																																																																																																																																			
01	0	29.95	0.00	51	47	86	17	0	0	0	30.05	0.00	55	52	89	21	0	0	0	30.09	0.00	56	51	86	05	0	0	04	0	29.96	0.00	49	46	90	17	0	0	0	30.08	0.00	52	50	93	21	0	0	0	30.10	0.00	53	49	86	21	0	2	07	35	30.00	0.00	54	48	82	19	0	1	37	30.13	0.00	55	54	96	21	0	1	39	30.11	0.00	62	53	73	19	0	5	10	722	30.01	0.00	71	55	56	22	2	8	642	30.14	0.00	74	61	63	17	0	5	642	30.11	0.00	76	62	61	21	4	9	13	916	30.00	0.00	77	55	47	15	0	7	856	30.13	0.00	80	55	42	33	0	1	853	30.10	0.00	84	57	41	27	2	9	16	680	29.97	0.00	77	55	46	27	5	14	656	30.10	0.00	83	56	40	30	0	7	652	30.06	0.00	87	60	40	28	0	7	19	186	29.98	0.00	76	56	51	23	0	5	176	30.07	0.00	81	61	50	05	0	0	153	30.03	0.00	84	62	49	02	0	0	22	0	30.02	0.00	59	53	83	21	0	0	0	30.10	0.00	60	54	81	05	0	0	0	30.06	0.00	62	55	80	02	0	0
JUL 13																						JUL 14																						JUL 15																																																																																																																																																																																			
01	0	30.07	0.00	60	55	85	20	0	0	0	30.06	0.00	61	55	80	30	0	0	0	30.03	0.00	65	60	84	22	0	0	04	0	30.07	0.00	56	52	87	21	0	0	0	30.05	0.00	61	56	81	25	0	1	0	30.01	0.00	66	60	80	22	0	4	07	46	30.11	0.00	61	56	84	21	0	4	86	30.08	0.00	68	59	73	21	4	6	62	30.01	0.00	70	62	77	22	1	6	10	633	30.12	0.00	79	64	60	20	2	8	422	30.08	0.00	76	67	74	23	4	8	308	29.99	0.00	78	67	68	21	2	8	13	856	30.09	0.00	87	61	42	30	5	10	814	30.06	0.00	88	68	53	32	0	8	1090	29.94	0.00	86	69	57	23	6	9	16	647	30.07	0.00	90	55	31	21	0	8	621	30.03	0.00	90	66	46	11	0	1	163	29.87	0.00	81	68	64	21	2	8	19	179	30.04	0.00	88	64	45	30	0	0	144	30.00	0.00	86	67	54	22	0	0	23	29.86	0.00	74	67	77	24	1	5	22	0	30.06	0.00	64	55	73	30	0	0	0	30.03	0.00	69	63	83	22	0	0	0	29.84	0.00	69	66	89	20	1	8
JUL 16																						JUL 17																						JUL 18																																																																																																																																																																																			
01	0	29.82	0.00	68	67	95	20	0	0	0	29.73	0.00	68	64	88	18	0	3	0	29.70	0.00	67	64	91	32	0	0	04	0	29.78	0.00	67	66	96	21	0	5	0	29.69	0.00	67	65	91	19	0	3	0	29.70	0.00	65	63	94	30	0	0	07	69	29.80	0.00	68	67	97	21	0	3	5	29.65	0.00	69	65	87	17	0	3	111	29.77	0.00	65	64	96	06	0	0	10	237	29.79	0.00	72	68	88	27	2	5	54	29.63	0.00	70	66	90	23	0	10	599	29.81	0.00	72	66	81	30	0	6	13	935	29.78	0.00	81	70	69	29	5	9	652	29.58	0.00	80	70	72	21	2	7	895	29.83	0.00	75	63	67	04	1	7	16	508	29.74	0.00	84	71	65	32	1	6	42	29.54	0.00	84	75	76	23	0	0	640	29.84	0.00	76	60	57	32	1	13	19	120	29.73	0.00	80	67	66	31	0	3	69	29.59	0.00	74	68	83	23	0	7	105	29.88	0.00	70	55	59	01	0	1	22	0	29.74	0.00	67	64	90	31	0	0	0	29.65	0.00	70	68	94	20	0	1	0	29.90	0.00	60	51	72	05	0	0

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.26	0.41	0.52	0.54	0.55	0.59	0.62	0.65	0.86	0.90	0.90	0.90
Ended: Date	23	23	23	23	23	23	23	23	23	23	23	23
Ended: Time	1903	1906	1907	1909	1922	1936	1952	2011	2032	2040	2040	2040

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 2012: Westford

Hour	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	Wind		
							Direction	Speed	Gust							Direction	Speed	Gust							Direction	Speed	Gust
JUL 19									JUL 20									JUL 21									
01	0	29.94	0.00	52	49	89	07	0	0	0	30.04	0.00	50	48	93	05	0	0	0	30.03	0.00	51	48	90	03	0	0
04	0	29.93	0.00	49	47	93	07	0	0	0	30.02	0.00	49	48	94	10	0	0	0	30.03	0.00	50	49	95	02	0	0
07	91	29.97	0.00	55	54	96	08	0	0	30	30.05	0.00	50	49	95	06	0	0	32	30.05	0.00	52	51	96	22	0	0
10	652	29.99	0.00	67	54	64	31	1	5	645	30.07	0.00	68	53	60	11	0	5	626	30.06	0.00	72	59	63	23	0	4
13	891	29.99	0.00	72	52	49	30	5	9	867	30.04	0.00	75	49	41	10	0	7	954	30.02	0.00	79	57	47	21	1	8
16	628	29.97	0.00	73	51	46	30	3	11	376	30.01	0.00	74	54	50	31	3	13	202	29.99	0.00	83	58	43	22	0	4
19	95	29.98	0.00	68	51	55	00	0	2	146	30.01	0.00	74	55	52	01	0	1	172	29.96	0.00	79	57	47	19	0	5
22	0	30.02	0.00	52	48	85	05	0	0	0	30.03	0.00	55	50	82	03	0	0	0	29.99	0.00	62	54	74	21	0	0
JUL 22									JUL 23									JUL 24									
01	0	30.01	0.00	65	55	71	21	0	1	0	29.96	0.00	73	62	70	21	1	5	0	29.60	0.15	64	63	95	11	0	3
04	0	29.99	0.00	65	53	67	21	0	6	0	29.93	0.00	68	61	77	20	1	5	0	29.54	0.00	68	67	96	21	1	10
07	60	30.02	0.00	64	55	71	21	1	5	91	29.93	0.00	70	62	75	20	4	12	65	29.54	0.00	68	67	96	22	0	3
10	598	30.02	0.00	74	59	59	21	5	11	561	29.89	0.00	77	65	67	21	5	13	246	29.58	0.00	69	68	95	31	3	14
13	817	29.99	0.00	82	64	54	21	3	12	752	29.82	0.00	84	69	60	19	5	14	137	29.59	0.23	71	65	81	30	2	16
16	190	29.96	0.00	85	65	51	28	3	7	163	29.72	0.00	84	67	58	14	3	9	763	29.63	0.00	72	67	84	30	2	11
19	183	29.94	0.00	83	67	59	21	0	0	0	29.81	5.82	69	63	79	30	4	27	40	29.67	0.00	66	55	66	07	0	4
22	0	29.97	0.00	71	63	75	17	0	0	0	29.66	0.00	64	62	93	22	0	1	0	29.72	0.00	61	54	77	31	0	1
JUL 25									JUL 26									JUL 27									
01	0	29.74	0.00	61	54	78	30	0	5	0	29.72	0.00	60	53	77	19	0	0	0	29.60	0.00	63	62	96	04	0	0
04	0	29.77	0.00	57	54	88	09	0	0	0	29.67	0.00	61	53	75	21	0	1	0	29.64	0.00	63	62	96	04	0	0
07	81	29.82	0.00	58	55	89	30	0	3	12	29.64	0.00	61	57	85	20	0	0	79	29.71	0.00	63	62	96	01	0	1
10	849	29.83	0.00	67	55	65	01	2	11	26	29.62	0.00	62	59	89	21	0	7	385	29.74	0.00	73	64	73	02	0	5
13	935	29.85	0.00	71	57	61	28	6	16	504	29.60	0.00	64	63	95	20	0	4	436	29.76	0.00	76	65	70	34	1	8
16	603	29.80	0.00	74	59	58	30	1	7	139	29.58	0.00	66	63	90	21	0	3	281	29.79	0.00	76	64	66	02	1	6
19	79	29.77	0.00	69	59	71	07	0	0	12	29.58	0.00	66	63	91	18	0	0	148	29.83	0.00	76	64	65	05	0	4
22	0	29.75	0.00	59	54	84	07	0	0	0	29.59	0.00	63	62	94	04	0	0	0	29.87	0.00	61	58	90	04	0	0
JUL 28									JUL 29									JUL 30									
01	0	29.89	0.00	59	57	95	04	0	0	0	29.95	0.00	59	56	92	05	0	0	0	30.00	0.00	61	59	94	23	0	0
04	0	29.92	0.00	58	57	96	04	0	0	0	29.93	0.00	58	56	95	05	0	0	0	29.98	0.00	58	57	95	23	0	0
07	76	29.94	0.00	59	58	96	04	0	0	72	29.98	0.00	59	58	96	05	0	0	40	30.02	0.00	63	62	96	20	1	5
10	401	29.96	0.00	75	61	62	03	0	0	573	29.98	0.00	73	63	71	31	0	0	601	30.03	0.00	75	66	74	23	3	8
13	561	29.94	0.00	80	60	52	00	0	3	211	29.97	0.00	78	66	66	16	0	0	969	30.01	0.00	83	64	54	24	1	5
16	269	29.92	0.00	76	62	62	05	0	5	628	29.93	0.00	82	66	59	35	0	8	666	29.97	0.00	84	60	45	20	2	7
19	56	29.94	0.00	74	60	61	02	0	5	155	29.94	0.00	77	64	64	06	0	3	146	29.94	0.00	79	61	55	21	0	6
22	0	29.95	0.00	61	56	84	05	0	0	0	29.98	0.00	65	61	87	07	0	0	0	29.95	0.00	70	59	69	21	0	4
JUL 31																											
01	0	29.98	0.00	68	61	80	18	1	6																		
04	0	29.96	0.00	69	63	81	21	2	8																		
07	62	29.96	0.00	68	63	84	21	2	8																		
10	580	29.95	0.00	76	65	69	23	6	16																		
13	805	29.91	0.00	82	67	60	21	6	16																		
16	621	29.84	0.00	85	62	46	18	4	12																		
19	139	29.81	0.00	82	59	46	20	1	6																		
22	0	29.82	0.00	67	57	70	19	1	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

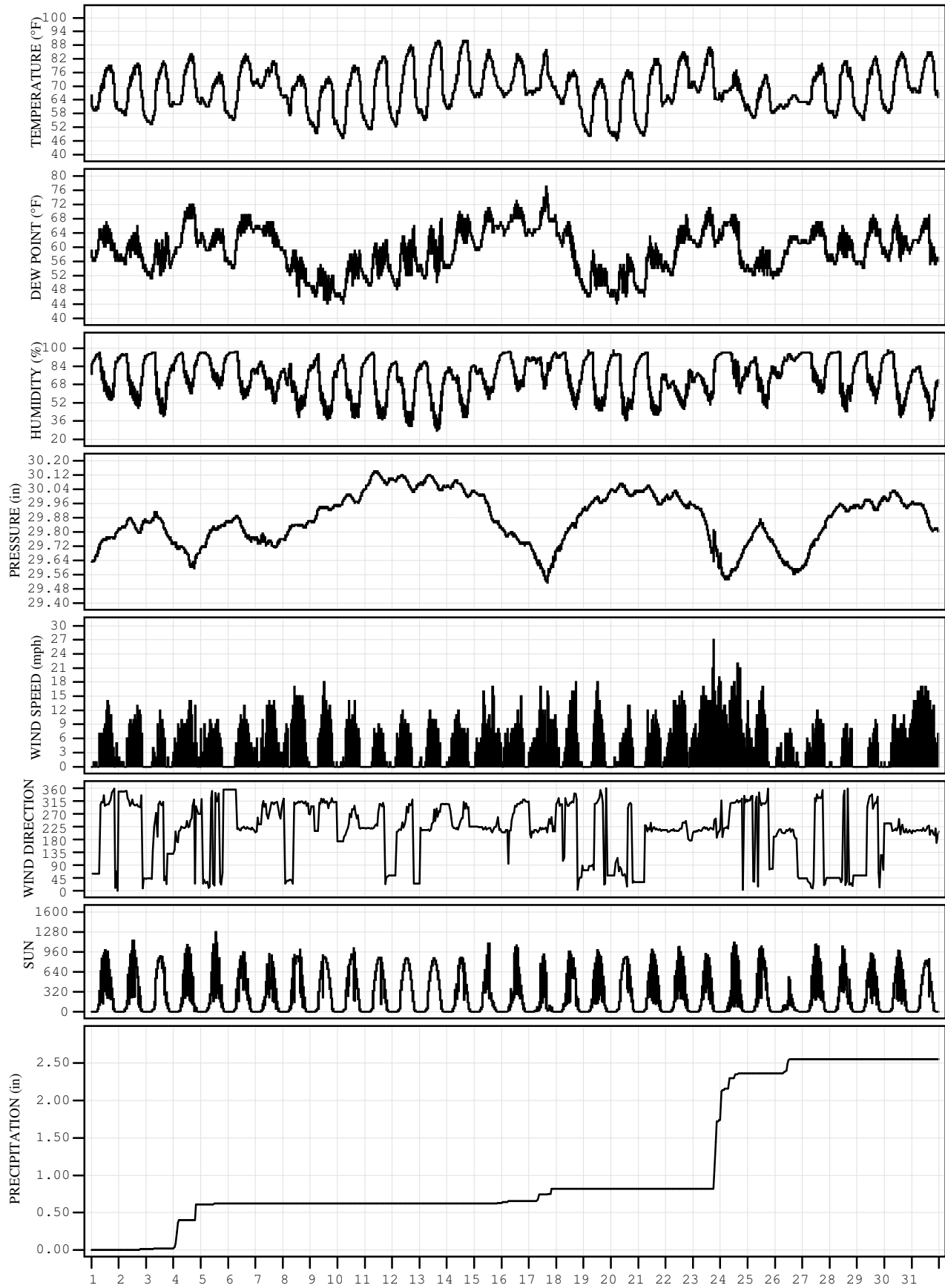
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01	0	29.870	61	57	87	0.1	18	0.1
04	0	29.866	60	56	89	0.2	22	0.1
07	61	29.892	62	58	89	0.5	21	0.5
10	523	29.897	72	62	71	1.5	24	1.1
13	758	29.882	78	62	59	2.4	27	1.8
16	508	29.853	80	62	55	1.9	29	1.2
19	118	29.853	76	61	61	0.4	30	0.3
22	0	29.871	63	57	82	0.1	20	0.1

HOURLY PRECIPITATION (Water Equivalent) July 2012: Westford

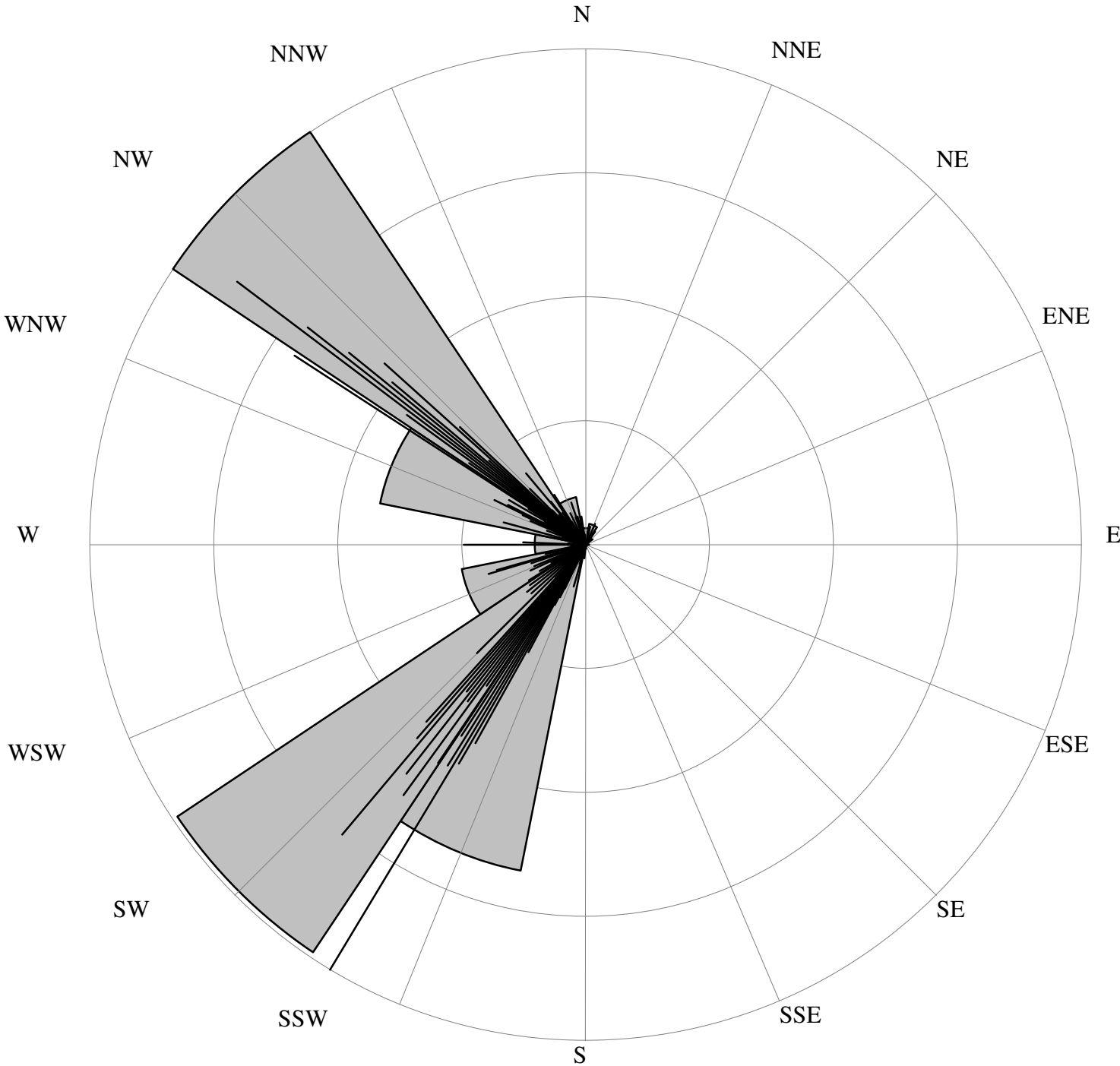
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01																								01	
02																									02
03							0.01												0.01						03
04	0.02	0.04	0.16	0.12	0.04															0.21					04
05											0.01														05
06																									06
07																									07
08																									08
09																									09
10																									10
11																									11
12																									12
13																									13
14																									14
15																				0.01					15
16	0.01					0.01																			16
17							0.01	0.01	0.07							0.01				0.07					17
18																									18
19																									19
20																									20
21																									21
22																									22
23																									23
24	0.38	0.02		0.02				0.14				0.05			0.01				0.24	0.38	0.28		0.02		24
25																									25
26								0.02	0.01	0.01	0.09	0.05	0.01												26
27																									27
28																									28
29																									29
30																									30
31																									31
Sum	0.41	0.06	0.16	0.14	0.04	0.01	0.02	0.17	0.08	0.01	0.09	0.06	0.06	0.00	0.00	0.01	0.01	0.00	0.25	0.66	0.29	0.00	0.02	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
July 2012: Westford



Wind Rose: July 2012
Westford



Maximum direction of wind: 30.3 miles from 211°
Maximum sector of wind: 171.9 miles from NW
626.4 total miles of wind