

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

July 2017

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 Speed	Res Speed	Res Dir	Peak		2 Minute		
																				Speed		Dir	Speed	Dir	Speed	Dir
1	2	3	4A	4B	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	74.0	63.8	68.9	68.5	67	95	0	4	.....	0	0.10	0.0	29.87	29.69	29.790	0.4	0.4	218	14	WSW	7	235	92
2	78.8	62.3	70.6	69.3	62	80	0	6	.....	0	0.00	0.0	29.86	29.75	29.815	1.2	1.1	273	19	SSW	9	297	250
3	76.8	56.8	66.8	65.8	58	76	0	2	.....	0	0.02	0.0	29.95	29.79	29.870	1.8	1.8	280	20	NNW	10	295	248
4	77.9	52.4	65.2	64.4	56	76	0	0	.....	0	0.00	0.0	30.11	29.95	30.029	0.4	0.3	301	13	NW	7	298	283
5	82.1	49.8	65.9	67.2	54	68	0	1	.....	0	0.00	0.0	30.19	30.05	30.118	0.1	0.1	230	11	S	3	229	297
6	78.0	62.1	70.0	70.8	60	69	0	5	.....	0	0.00	0.0	30.06	29.83	29.946	2.5	2.5	213	25	S	11	203	272
7	82.8	60.9	71.9	69.5	64	84	0	7	..3.....	0	0.07	0.0	29.83	29.62	29.710	1.6	1.6	222	16	WSW	8	260	179	
8	74.7	58.7	66.7	64.8	62	91	0	2	..3.....	0	0.97	0.0	29.75	29.59	29.640	0.6	0.5	278	28	W	13	289	134	
9	75.9	53.9	64.9	64.6	59	83	0	0	.....	0	0.07	0.0	29.90	29.75	29.831	1.5	1.4	249	25	WNW	10	306	245
10	77.0	60.0	68.5	67.4	61	81	0	4	.....	0	0.03	0.0	29.92	29.84	29.886	0.6	0.6	219	14	SW	7	207	153
11	82.2	60.7	71.4	70.6	65	83	0	7	.....	0	0.16	0.0	29.86	29.79	29.835	0.8	0.8	223	13	SW	6	221	274
12	78.4	60.0	69.2	68.4	63	83	0	4	.....	0	0.00	0.0	29.97	29.85	29.925	0.2	0.2	4	16	NNE	5	298	222
13	64.0	55.1	59.5	59.1	57	93	5	0	.....	0	0.06	0.0	30.05	29.91	29.977	0.1	0.1	32	7	N	4	32	62
14	67.9	53.0	60.5	60.7	59	94	4	0	.....	0	0.08	0.0	30.04	29.87	29.971	0.3	0.2	170	14	SW	4	212	88
15	79.2	61.6	70.4	67.9	64	87	0	6	.....	0	0.00	0.0	29.88	29.80	29.833	1.3	1.1	229	14	SSW	7	216	175
16	82.3	60.6	71.5	69.9	63	81	0	7	..3.....	0	0.00	0.0	29.96	29.81	29.872	0.7	0.6	254	15	WNW	7	273	273	
17	77.4	59.4	68.4	66.2	63	90	0	3	..3.....	0	0.53	0.0	30.05	29.95	29.983	0.4	0.2	282	20	NW	11	302	156	
18	83.6	59.9	71.8	70.8	65	84	0	7	.....	0	0.00	0.0	30.05	29.96	30.002	0.6	0.6	224	12	SW	6	209	251
19	83.7	60.6	72.1*	70.6	65	83	0	8	.....	0	0.00	0.0	29.98	29.87	29.929	0.4	0.4	263	15	W	8	295	225
20	84.5*	58.9	71.7	71.4	65	82	0	7	.....	0	0.00	0.0	29.91	29.77	29.841	0.5	0.5	278	16	NNW	9	300	229
21	82.3	56.1	69.2	69.7	63	79	0	4	.....	0	0.00	0.0	29.83	29.72	29.776	0.8	0.8	256	16	W	7	297	255
22	79.8	55.0	67.4	67.0	60	81	0	3	.....	0	0.00	0.0	29.84	29.75	29.792	0.2	0.2	303	10	WNW	6	298	262
23	77.2	51.2	64.2	63.5	55	77	1	0	.....	0	0.00	0.0	29.86	29.77	29.814	0.1	0.1	346	9	W	5	296	232
24	61.5	53.9	57.7*	57.4	54	89	7	0	.....	0	0.60	0.0	29.94	29.80	29.872	0.2	0.1	170	13	SSE	5	128	48
25	69.3	52.3	60.8	58.5	55	90	4	0	.....	0	0.01	0.0	30.19	29.94	30.085	0.4	0.2	323	11	W	7	303	142
26	76.4	50.1	63.3	64.0	57	81	2	0	.....	0	0.01	0.0	30.22	29.95	30.118	0.9	0.9	223	16	SW	8	191	265
27	76.0	61.5	68.8	65.6	63	91	0	4	.....	0	0.17	0.0	29.95	29.75	29.832	1.6	1.5	219	15	SW	9	226	128
28	73.9	50.4	62.2	63.0	56	80	3	0	.....	0	0.00	0.0	29.88	29.80	29.852	0.6	0.5	315	14	NNE	7	300	273
29	74.3	46.4	60.4	59.5	52	80	5	0	.....	0	0.00	0.0	29.94	29.87	29.912	0.1	0.1	310	13	WNW	6	295	267
30	77.9	45.8*	61.9	61.5	53	77	3	0	.....	0	0.00	0.0	30.01	29.94	29.981	0.1	0.1	300	12	WNW	5	300	279
31	84.0	55.0	69.5	68.2	61	80	0	5	.....	0	0.00	0.0	30.00	29.94	29.973	0.1	0.1	251	10	WSW	3	262	240
Sum	Sum	-----	-----	---	----	----	Ttl	Ttl	Number of Days		Total	Total	For the month:										---	
							34	96			2.88	0.0	30.22	29.59	29.897	0.7	0.5	245	28	W	13	289		
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl	Date	Date	-----	----	----	----	----	----	Date	Date	Avg			
						----	----	≥.01 inch	14	27.28	0.0	26	8	-----	----	----	----	8	8	210				
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			34	186	Thunder	4	Precipitation		Snow, Ice Plts												
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	----	----	Heavy Fog	0	0.97	8	0.0	-	0			-							
0	0	0	0	----	----	----	----	Clear	5	Partly Cloudy		18	Cloudy		8									

NOTES:
 Units: 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.

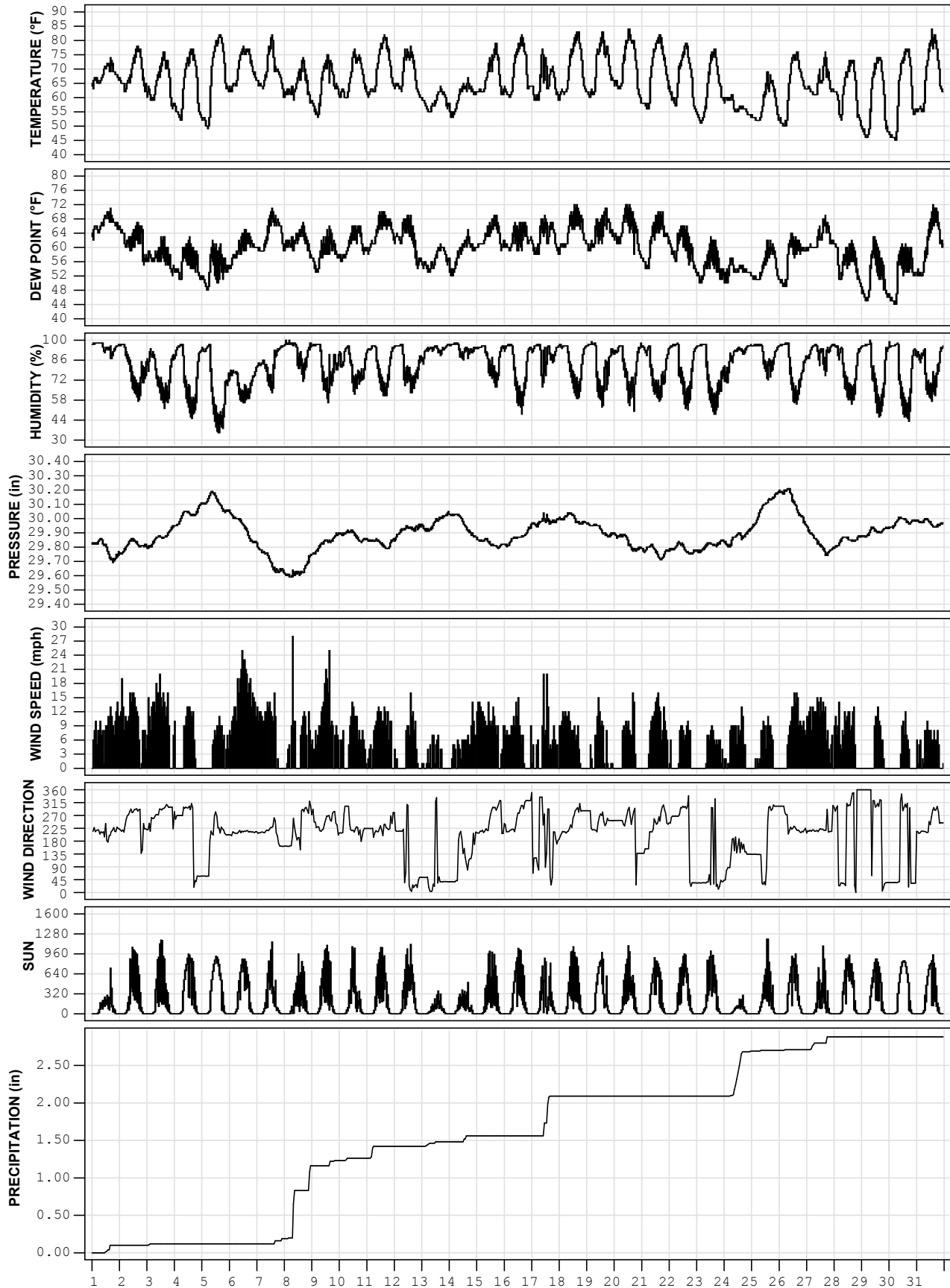
HOURLY PRECIPITATION (Water Equivalent) July 2017: Westford

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												0.01	0.01	0.02		0.06								01	
02																									02
03		0.01	0.01																						03
04																									04
05																									05
06																									06
07																0.04									07
08				0.01				0.45	0.18											0.03					08
09															0.06				0.01	0.25	0.08				09
10						0.01	0.02																		10
11				0.02	0.12	0.02																			11
12																									12
13				0.01	0.01	0.01	0.01					0.02													13
14													0.04		0.04										14
15																									15
16																									16
17										0.17				0.26	0.09	0.01									17
18																									18
19																									19
20																									20
21																									21
22																									22
23																									23
24						0.01		0.01	0.07	0.06	0.08	0.08	0.08	0.07	0.10	0.03						0.01			24
25								0.01																	25
26					0.01																				26
27				0.01	0.04	0.02	0.02											0.08							27
28																									28
29																									29
30																									30
31																									31
Sum	0.00	0.01	0.01	0.05	0.18	0.07	0.05	0.47	0.25	0.06	0.25	0.11	0.13	0.35	0.23	0.20	0.00	0.08	0.00	0.01	0.00	0.28	0.09	0.00	Sum

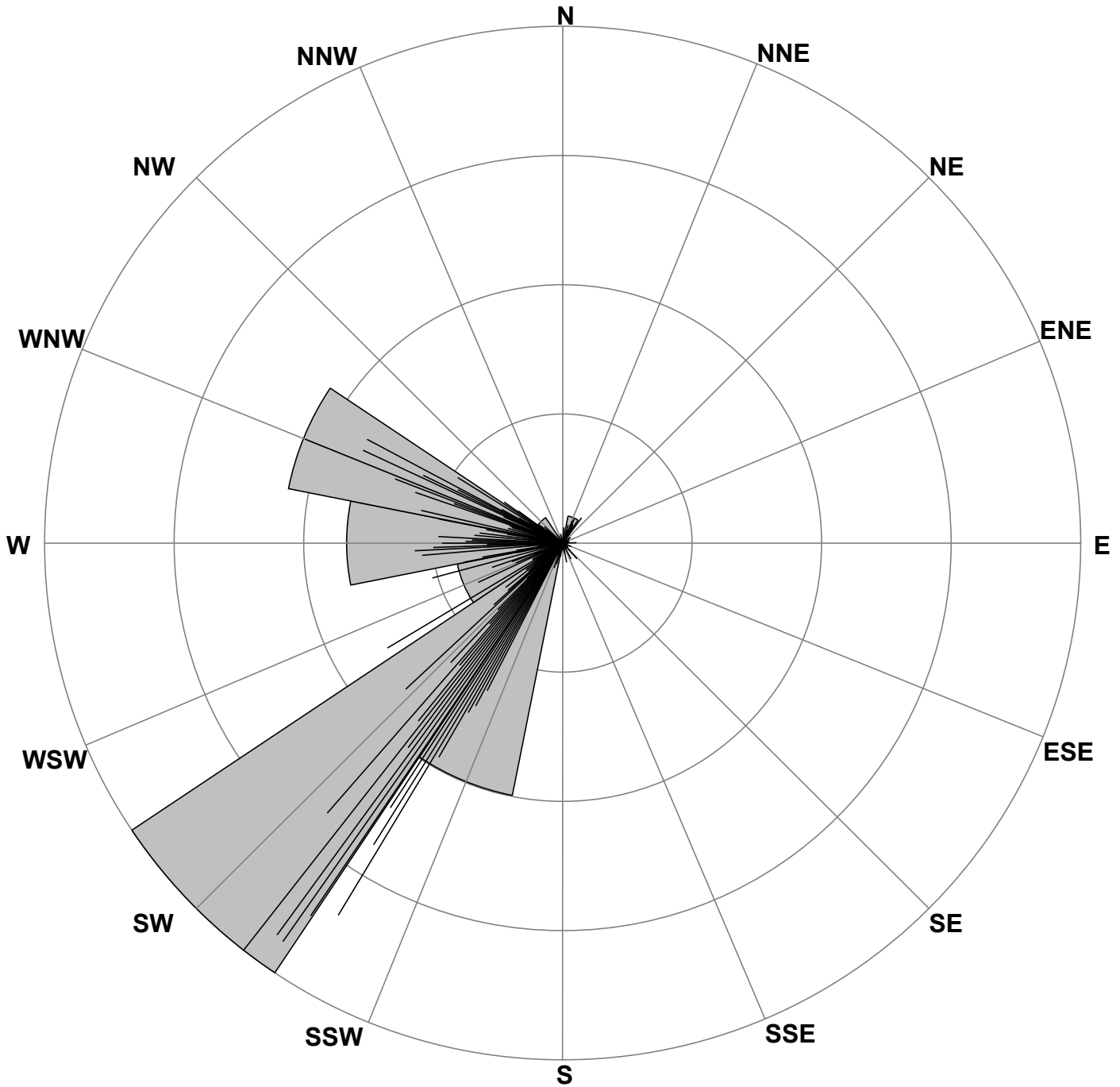
During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA

July 2017: Westford



**Wind Rose: July 2017
Westford**



**Maximum direction of wind: 22.9 miles from 218°
Maximum sector of wind: 178.5 miles from SW
509.6 total miles of wind**