

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

July 2021

Station: Westford

Latitude: 44° 37' 38" 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			2 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	76.5	60.3	68.4	67.1	62	85	0	4	.....	0	0.00	0.0	29.85	29.77	29.808	0.2	0.2	291	11	W	5	277	171
2	65.1	58.3	61.7	61.5	60	93	3	0	.....	0	0.41	0.0	29.82	29.75	29.788	0.3	0.3	6	10	NNW	6	338	70
3	63.0	55.0	59.0*	59.0	57	93	6	0	.....	0	0.06	0.0	29.83	29.78	29.810	0.1	0.0	158	10	SSE	3	171	73
4	68.5	52.0	60.3	60.0	57	89	4	0	.....	0	0.00	0.0	29.97	29.80	29.875	0.2	0.1	298	10	W	4	279	132
5	79.6	48.6	64.1	65.7	58	78	0	0	.....	0	0.01	0.0	30.02	29.84	29.951	0.9	0.9	177	13	SSE	5	177	290
6	84.3	66.4	75.4*	73.3	69	86	0	10	.....	0	0.06	0.0	29.84	29.71	29.768	2.1	1.8	205	16	SSE	7	217	172
7	67.0	52.6	59.8	61.7	58	86	5	0	.....	0	0.02	0.0	29.99	29.80	29.921	0.3	0.3	284	12	W	5	273	95
8	67.7	52.8	60.2	60.8	58	91	4	0	.....	0	0.32	0.0	30.00	29.80	29.937	0.7	0.6	146	19	S	7	178	76
9	75.7	55.9	65.8	66.1	64	93	0	1	.....	0	0.17	0.0	29.92	29.78	29.833	1.3	0.8	192	21	SSE	9	178	132
10	79.3	51.7	65.5	64.6	57	79	0	1	.....	0	0.00	0.0	30.03	29.92	29.983	0.5	0.3	323	11	NNW	5	13	302
11	79.3	49.9	64.6	65.5	59	82	0	0	.....	0	0.00	0.0	30.07	30.01	30.041	0.3	0.3	196	8	SSE	3	170	195
12	82.8	60.2	71.5	70.0	64	83	0	7	.....	0	0.00	0.0	30.17	30.06	30.115	0.4	0.2	253	9	W	4	250	206
13	75.8	63.1	69.5	68.8	64	85	0	5	.....	0	0.50	0.0	30.19	30.07	30.138	1.4	1.4	158	18	SE	7	171	143
14	81.3	67.5	74.4	72.9	69	87	0	10	.....	0	0.16	0.0	30.08	29.97	30.017	2.2	2.1	181	20	SSE	9	175	172
15	85.0*	63.0	74.0	74.3	68	81	0	9	.....	0	0.00	0.0	30.05	29.81	29.964	1.3	1.2	180	17	SSE	7	175	277
16	77.1	60.0	68.5	71.2	67	86	0	4	.....	0	0.23	0.0	30.02	29.78	29.900	1.5	1.1	223	15	SSE	8	265	159
17	75.4	58.7	67.1	66.5	63	89	0	2	.....	0	0.09	0.0	30.08	30.01	30.048	0.1	0.1	188	8	NW	3	334	129
18	67.2	59.6	63.4	63.5	62	95	1	0	.....	0	1.14	0.0	30.04	29.96	29.991	0.6	0.5	351	11	ESE	5	24	62
19	77.1	60.1	68.6	66.9	64	91	0	4	..3.....	0	0.04	0.0	29.97	29.86	29.917	0.2	0.1	161	8	SSE	3	158	151	
20	79.1	58.9	69.0	68.0	65	90	0	4	..3.....	0	0.67	0.0	29.88	29.73	29.828	0.4	0.2	238	22	SSW	12	260	155	
21	64.4	55.1	59.8	60.0	59	97	5	0	.2.....	0	0.19	0.0	29.96	29.78	29.863	0.5	0.4	251	11	WNW	5	270	50	
22	76.9	52.3	64.6	63.5	58	84	0	0	.....	0	0.00	0.0	30.06	29.96	30.006	0.7	0.7	260	16	SSW	6	281	227
23	78.8	53.4	66.1	65.0	58	79	0	1	.....	0	0.00	0.0	30.11	30.04	30.069	0.4	0.4	266	11	WNW	6	269	283
24	81.4	52.1	66.8	66.7	59	78	0	2	.....	0	0.00	0.0	30.10	29.85	30.014	0.6	0.6	201	11	S	6	215	288
25	82.6	63.0	72.8	70.4	65	84	0	8	.....	0	0.41	0.0	29.85	29.71	29.747	2.4	2.2	190	25	SSE	9	165	204
26	82.3	61.5	71.9	70.5	64	82	0	7	.....8.	0	0.00	0.0	29.84	29.76	29.795	1.1	1.0	222	14	SW	7	234	207
27	73.8	58.6	66.2	63.5	60	90	0	2	.....	0	0.17	0.0	29.94	29.84	29.897	0.1	0.1	217	7	SSE	4	165	102
28	75.3	49.9	62.6	63.5	56	80	2	0	.....	0	0.00	0.0	30.03	29.94	29.989	0.2	0.2	336	10	SW	5	270	247
29	71.7	46.7*	59.2	59.1	56	90	5	0	.....	0	0.03	0.0	29.99	29.68	29.845	0.3	0.3	177	15	SSE	5	178	113
30	66.1	54.7	60.4	59.3	55	86	4	0	.....	0	0.16	0.0	29.88	29.65	29.751	2.1	2.1	269	23	W	10	265	121
31	71.9	50.6	61.3	60.9	51	71	3	0	.....	0	0.00	0.0	29.91	29.86	29.880	1.6	1.6	252	15	W	9	256	275
Sum	Sum	-----	-----	---	----	Ttl	Ttl				Total	Total	For the month:										---	
2332	1752					42	81		Number of Days		4.84	0.0	30.19	29.65	29.919	0.8	0.5	213	25	SSE	12	260		
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip		Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg			
75.2	56.5	65.9	65.5	61	85.9	----	----		≥.01 inch	19	20.16	0.0	13	30	-----	----	----	---	25	20	170			
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			42	252	Thunder	2	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	1	1.23	17-18	0.0	-	0						-						
0	0	0	0	----	----	Clear	5	Partly Cloudy			10	Cloudy			15									

NOTES:

- Units: Temperature=°F, Wind=mph, Pressure=Inches Hg, Precipitation=inches.
- Column 4A: value is (MAX+MIN) ÷ 2.
- Data in columns 4B, 5, 6, 15, 16, 23 are updated continuously, there by achieving a "true" mean.
- 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 W/m² and is continuously averaged for 24 hours.

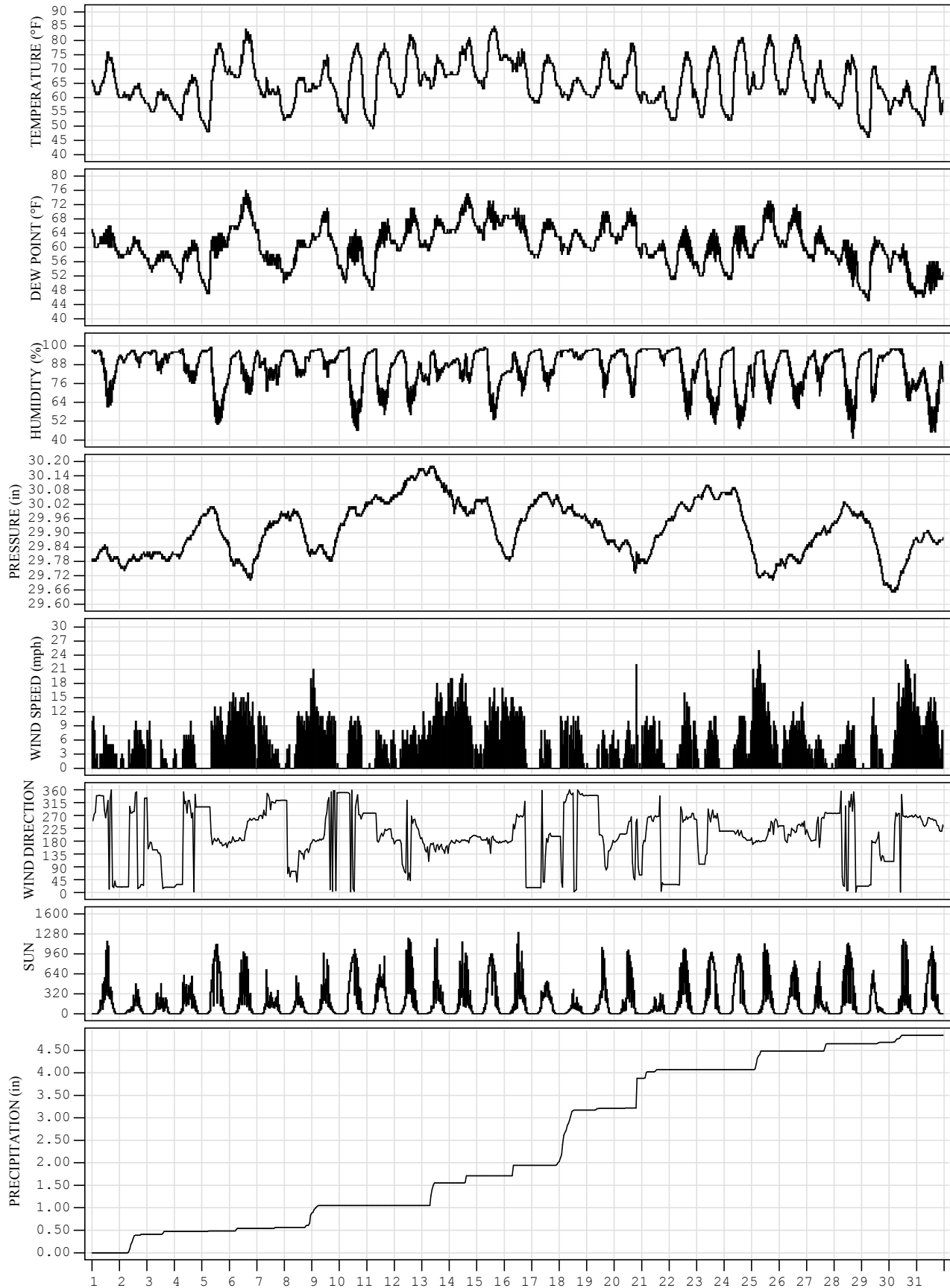
HOURLY PRECIPITATION (Water Equivalent) July 2021: Westford

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	0.07	0.11	0.05	0.07	0.07	0.01					0.02					02	
03														0.02	0.04									03	
04																								04	
05						0.01																		05	
06						0.03	0.03																	06	
07																0.02								07	
08																			0.04	0.01				08	
09	0.02	0.06	0.03	0.02	0.03	0.01															0.05	0.18	0.04	09	
10																								10	
11																								11	
12																								12	
13								0.21	0.14	0.10	0.05													13	
14														0.01	0.15									14	
15																								15	
16								0.23																16	
17																								17	
18	0.08	0.07	0.22	0.21	0.06	0.05	0.11	0.04	0.07	0.10	0.10	0.02	0.01								0.02	0.04	0.03	18	
19								0.01	0.02		0.01													19	
20										0.01										0.66				20	
21			0.01	0.12	0.01							0.02	0.03											21	
22																								22	
23																								23	
24																								24	
25			0.02	0.11	0.12	0.06	0.02	0.08																25	
26																								26	
27															0.01	0.08	0.07	0.01						27	
28																								28	
29														0.01	0.01	0.01								29	
30			0.01		0.04	0.03		0.01	0.03	0.03	0.01													30	
31																								31	
Sum	0.10	0.13	0.28	0.47	0.22	0.20	0.19	0.58	0.31	0.35	0.24	0.12	0.11	0.05	0.21	0.11	0.07	0.01	0.06	0.67	0.00	0.07	0.22	0.07	Sum

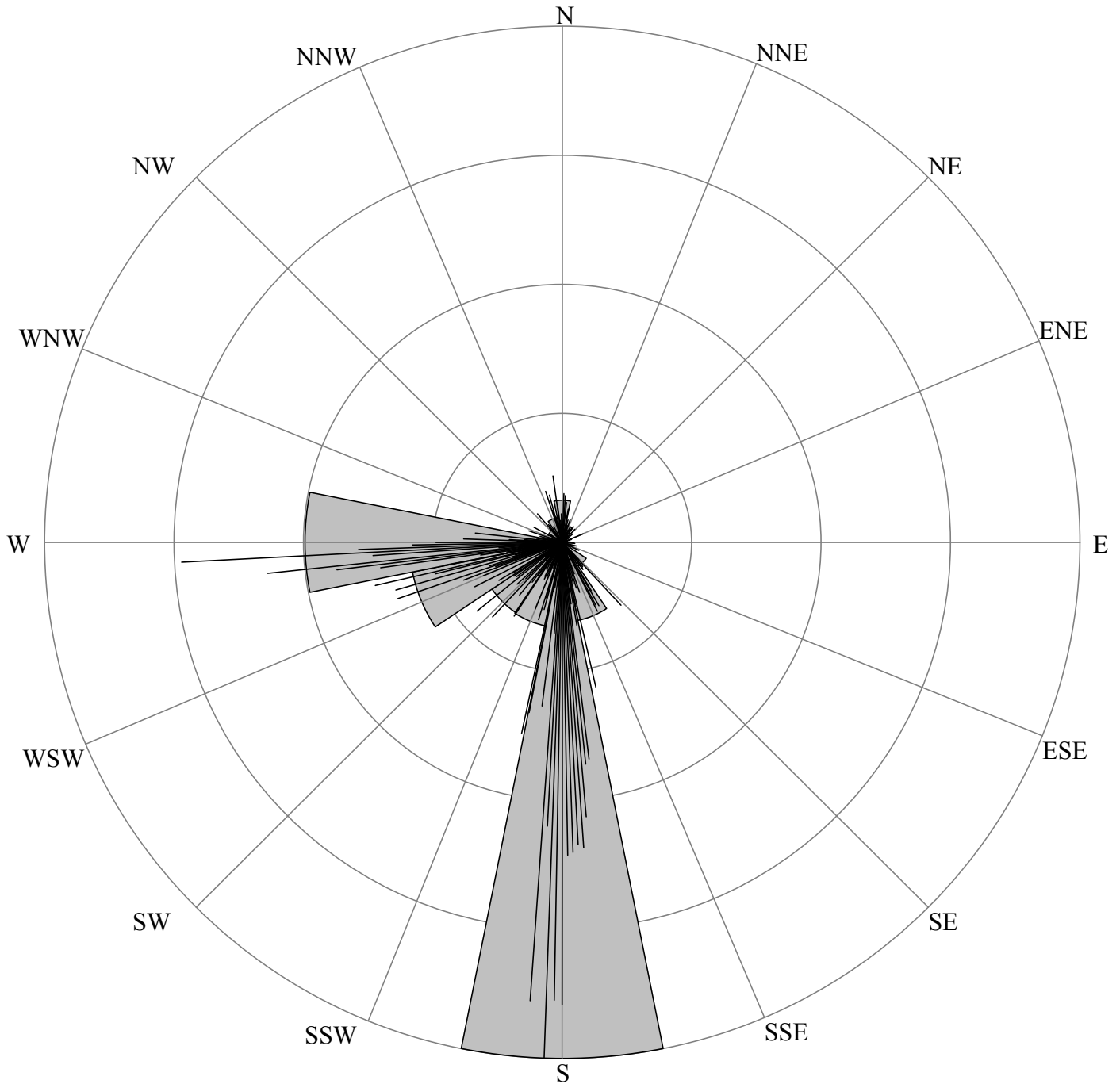
During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA

July 2021: Westford



Wind Rose: July 2021
Westford



Maximum direction of wind: 24.2 miles from 182°
Maximum sector of wind: 230.0 miles from S
597.0 total miles of wind