

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

October 2022

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																
1	66.0	39.0	52.5	49.9	46	87	12	0	.....	0	0.00	0.0	30.19	30.10	30.152	0.7	0.6	349	18	N	7	351	123
2	57.2	34.9	46.1	44.5	37	77	19	0	.....	0	0.00	0.0	30.34	30.18	30.276	1.1	1.1	347	16	NNW	7	347	170
3	60.7	29.6	45.2	42.8	36	80	19	0	.....	0	0.00	0.0	30.37	30.24	30.310	0.4	0.3	296	12	W	6	256	171
4	62.7	32.8	47.8	45.2	40	84	17	0	.....	0	0.01	0.0	30.24	30.07	30.155	0.2	0.1	270	8	NNW	5	236	130
5	67.9	38.6	53.3	50.5	45	83	11	0	.....	0	0.00	0.0	30.07	29.94	29.992	0.3	0.3	247	9	WSW	5	253	151
6	74.0	41.9	58.0	55.3	49	81	7	0	.....	0	0.00	0.0	29.94	29.86	29.902	0.4	0.4	183	9	SSE	5	248	146
7	61.6	41.7	51.6	53.3	51	90	13	0	.3.....	0	0.75	0.0	30.04	29.80	29.882	2.7	2.1	240	24	W	14	268	54	
8	49.3	35.4	42.4	41.6	35	78	23	0	.....	0	0.04	0.0	30.14	30.00	30.063	2.6	2.4	244	19	W	13	262	148
9	51.8	34.9	43.4	42.6	39	87	21	0	.....	0	0.03	0.0	30.10	29.92	29.982	2.0	1.8	189	18	SSE	9	175	55
10	54.4	30.9	42.7	40.8	36	84	22	0	.....	0	0.01	0.0	30.23	30.08	30.145	0.3	0.3	290	10	WSW	6	262	125
11	60.9	28.8	44.9	44.3	38	80	20	0	.....	0	0.01	0.0	30.27	30.15	30.208	1.9	1.9	178	17	SSE	8	184	145
12	69.5	48.0	58.8	56.9	47	71	6	0	.....	0	0.00	0.0	30.16	29.92	30.059	3.4	3.4	174	26	SSE	12	194	139
13	67.6	49.3	58.4	58.4	52	79	6	0	.....	0	1.12	0.0	29.92	29.68	29.784	3.2	2.8	168	24	E	12	264	56
14	61.0	41.8	51.4	49.9	48	92	13	0	.....	0	0.84	0.0	30.02	29.77	29.866	0.2	0.1	334	9	NE	5	261	78
15	66.7	34.9	50.8	49.7	43	80	14	0	.....	0	0.00	0.0	30.02	29.79	29.927	1.9	1.7	183	24	S	12	175	125
16	60.6	34.3	47.4	46.9	38	75	17	0	.....	0	0.00	0.0	29.97	29.81	29.905	0.7	0.6	267	12	W	7	273	137
17	58.5	33.4	46.0	45.9	42	87	19	0	.....	0	0.16	0.0	29.81	29.57	29.662	0.7	0.7	146	13	SSE	6	157	52
18	55.5	38.0	46.8	47.0	44	89	18	0	.....	0	0.07	0.0	29.66	29.50	29.554	1.0	0.8	196	19	SSE	10	179	57
19	52.6	32.3	42.4	41.5	35	80	22	0	.....	0	0.01	0.0	29.70	29.65	29.675	3.0	3.0	179	23	SSE	12	183	86
20	47.7	37.8	42.8	42.3	34	73	22	0	.....	0	0.00	0.0	29.92	29.69	29.785	4.6	4.5	181	26	SSE	12	177	53
21	57.4	32.2	44.8	45.7	32	59	20	0	.....	0	0.00	0.0	30.07	29.91	30.010	3.2	3.2	178	20	SSE	11	182	128
22	68.0	46.1	57.0	55.7	37	50	8	0	.....	0	0.00	0.0	30.23	30.04	30.121	5.6	5.6	175	24	SSE	14	167	127
23	69.9	41.5	55.7	55.2	42	63	9	0	.....	0	0.00	0.0	30.31	30.23	30.267	0.8	0.8	176	11	S	6	178	97
24	68.3	45.5	56.9	56.2	52	85	8	0	.....	0	0.33	0.0	30.25	30.12	30.192	0.3	0.2	153	8	S	5	178	81
25	71.9	52.5	62.2	62.1	59	90	2	0	.....	0	0.04	0.0	30.13	29.92	30.032	1.6	1.5	170	15	S	9	162	58
26	75.7	56.0	65.8*	63.8	60	87	0	1	.....	0	0.16	0.0	29.92	29.57	29.730	1.6	1.4	189	19	SSW	10	181	77
27	57.5	33.9	45.7	46.6	40	79	19	0	.....	0	0.00	0.0	30.46	29.64	30.093	3.7	3.4	269	26	W	15	254	76
28	49.4	26.5*	38.0*	35.5	30	81	27	0	.....	0	0.00	0.0	30.62	30.46	30.535	0.3	0.2	310	9	W	5	262	106
29	61.7	28.4	45.1	42.4	29	65	20	0	.....	0	0.00	0.0	30.51	30.29	30.414	1.9	1.9	175	14	SSE	8	179	116
30	65.5	34.1	49.8	49.0	27	46	15	0	.....	0	0.00	0.0	30.29	30.02	30.163	2.2	2.2	173	17	S	8	165	109
31	60.0	43.8	51.9	53.7	36	52	13	0	.....	0	0.00	0.0	30.02	29.87	29.934	4.2	4.2	174	21	SSE	12	181	79
Sum	Sum	-----	-----	---	----	Ttl	Ttl						Total	Total	For the month:						---			
1912	1179					462	1		Number of Days				3.58	0.0	30.62	29.50	30.025	1.8	1.4	191	26	SSE	15	254
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip				Season Ttl	Date	Date	-----	----	---		Date	Date	Avg		
61.7	38.0	49.8	48.9	41	77.3	----	----		≥.01 inch	14			48.82	0.0	28	18	-----	----	---		Date	Date	Avg	
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			690	389	Thunder	1	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	1.95	13-14	0.0	-	0						-						
0	0	7	0	----	----	Clear	8	Partly Cloudy			11	Cloudy			10									

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.

OBSERVATIONS AT 3-HOUR INTERVALS

October 2022: Westford

Table with columns for Hour, Sunshine, Pressure, Rainfall rate, Temperature, Dew Point, Humidity, Wind (Direction, Speed, Gust), and repeated for each day from Oct 19 to Oct 31.

WEATHER NOTES

NOTES: Units: 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 pulses from the electronic rain gauge and interpolating this rate for one hour.

SUMMARY BY HOUR

Table with columns for Hour, Sunshine, Pressure, Temperature, Dew Point, Humidity, Wind Speed, Resultant Wind (Direction, Speed).

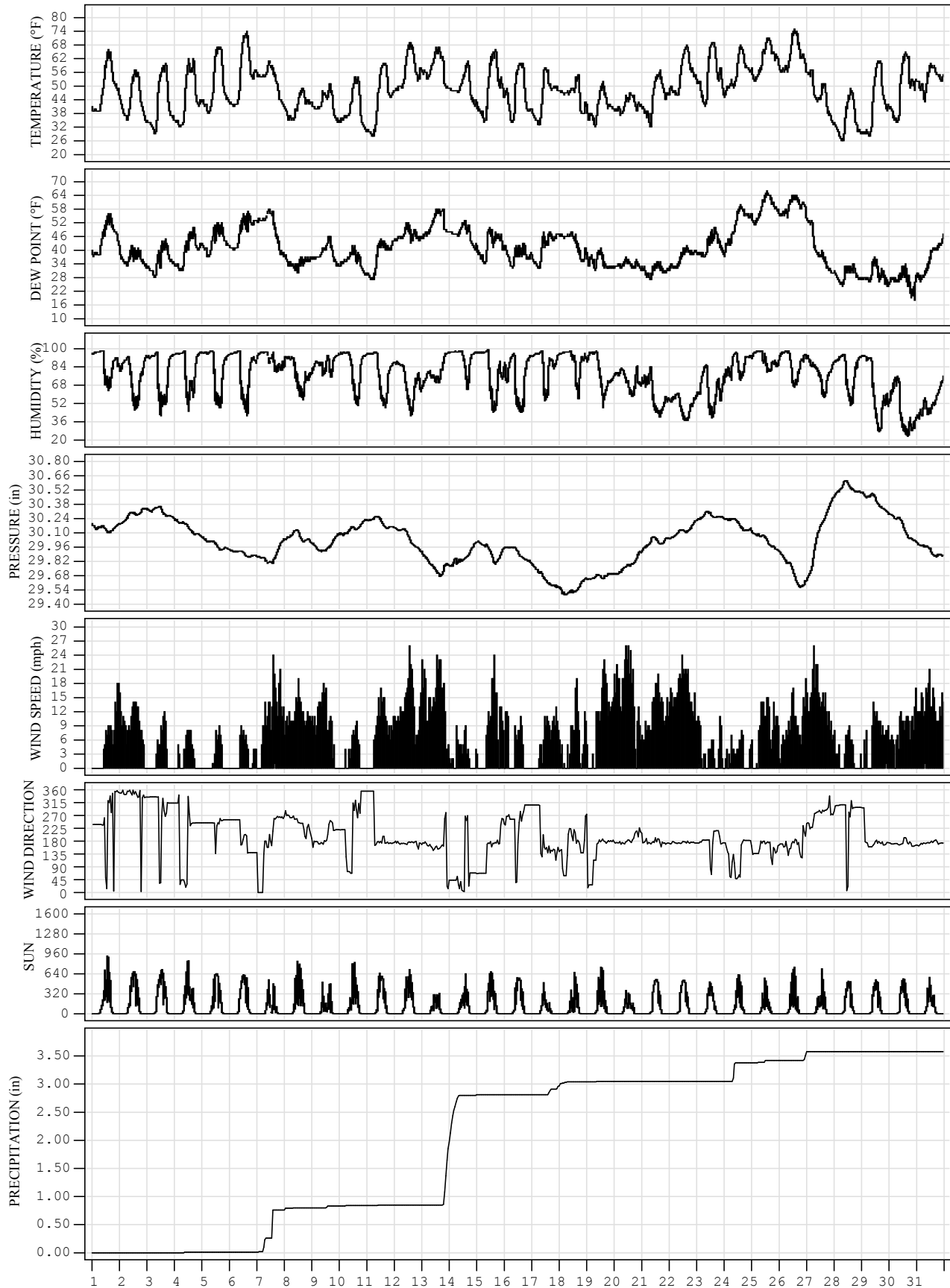
HOURLY PRECIPITATION (Water Equivalent) October 2022: Westford

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																									03
04									0.01																04
05																									05
06																									06
07		0.01				0.08	0.13	0.03						0.50											07
08	0.03							0.01																	08
09													0.01	0.02											09
10						0.01																			10
11										0.01															11
12																									12
13																		0.01	0.22	0.29	0.28	0.20	0.12	0.01	13
14	0.16	0.18	0.13	0.09	0.07	0.08	0.07	0.04	0.01																14
15																									15
16																									16
17															0.04	0.04	0.02					0.01	0.04	0.01	17
18	0.04		0.01		0.01		0.01																		18
19								0.01																	19
20																									20
21																									21
22																									22
23																									23
24								0.06	0.25	0.02															24
25						0.01						0.03													25
26																					0.02	0.07	0.07		26
27																									27
28																									28
29																									29
30																									30
31																									31
Sum	0.23	0.19	0.14	0.09	0.08	0.18	0.21	0.14	0.28	0.03	0.00	0.03	0.01	0.52	0.04	0.04	0.02	0.00	0.01	0.22	0.29	0.31	0.31	0.21	Sum

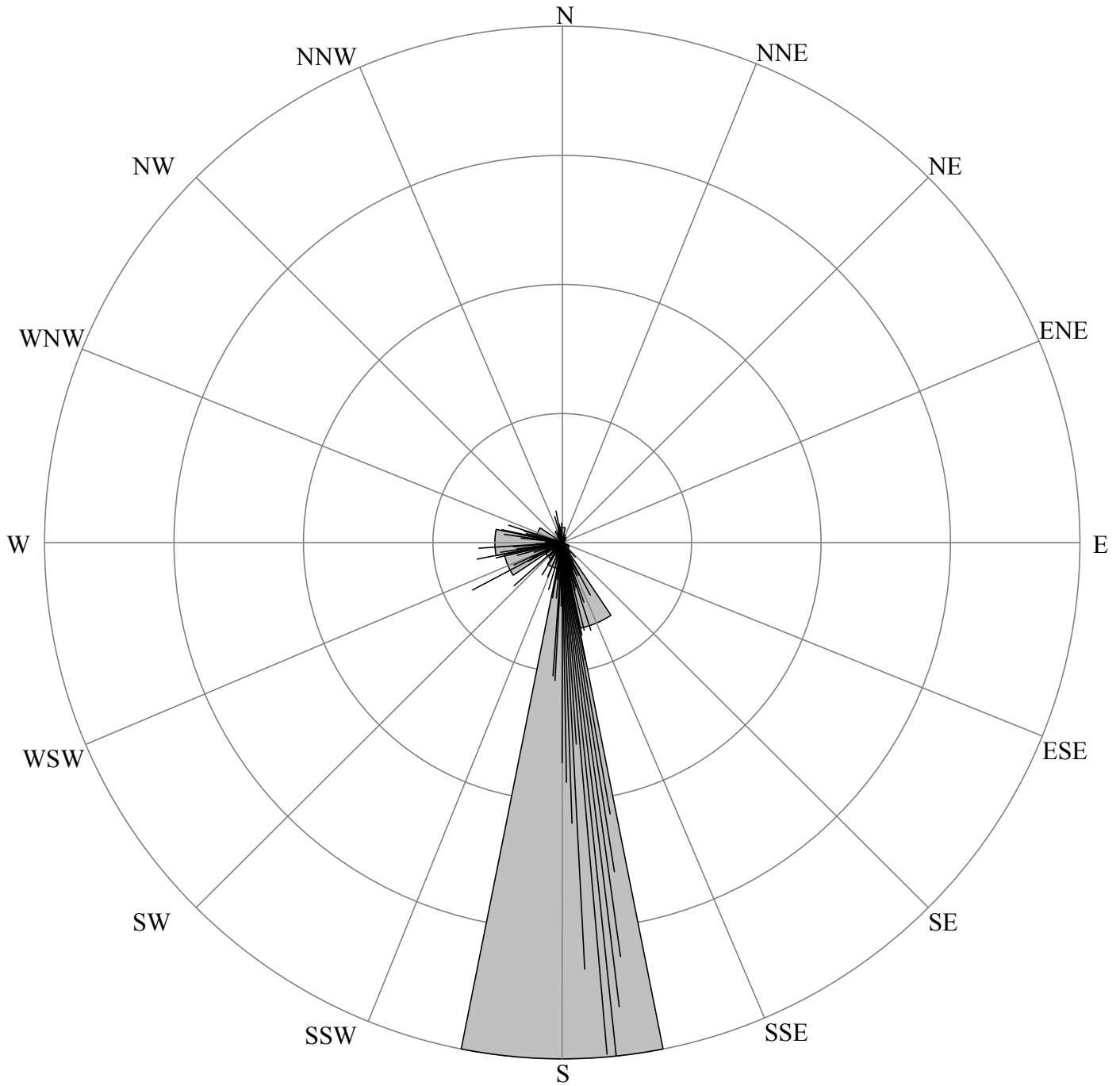
During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA

October 2022: Westford



Wind Rose: October 2022
Westford



Maximum direction of wind: 92.4 miles from 174°
Maximum sector of wind: 832.4 miles from S
1370.8 total miles of wind