

# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary

### December 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
1	2	3	4A	4B	5	6	7	8																
1	33.0	26.0	29.5	30.1	21	70	35	0	.....	0	T	T	30.34	29.71	30.007	6.4	6.1	238	29	WSW	19	250	31	
2	38.9	21.4	30.2	32.0	23	70	35	0	.....	0	0.00	0.0	30.44	30.15	30.337	3.9	3.6	173	33	S	15	172	44	
3	46.7	34.9	40.8	41.0	34	76	24	0	.....	0	0.30	0.0	30.15	29.66	29.889	9.9	9.0	189	49	S	20	167	5	
4	34.9	25.5	30.2	28.7	20	69	34	0	.....	0	0.00	0.0	30.16	29.98	30.079	4.4	3.0	236	23	W	13	264	57	
5	40.7	28.6	34.7	34.9	20	56	30	0	.....	0	0.00	0.0	30.20	30.05	30.104	7.7	7.6	174	30	SSE	17	166	58	
6	49.3	37.6	43.4	43.1	34	71	21	0	.....	0	0.16	0.0	30.28	30.17	30.229	3.7	3.7	165	29	S	12	169	9	
7	51.3	39.3	45.3	47.3	45	93	20	0	.....	0	0.56	0.0	30.17	29.98	30.067	2.6	1.7	174	22	SSE	11	156	9	
8	39.3	25.9	32.6	34.2	32	92	32	0	.....	0	0.00	0.0	30.33	30.10	30.223	1.6	1.5	298	17	W	8	289	22	
9	28.5	14.1	21.3	22.5	18	83	43	0	.....	0	0.00	0.0	30.50	30.32	30.410	1.2	1.2	337	13	NNW	7	277	66	
10	24.9	8.8	16.8	14.7	11	84	48	0	.....	0	0.00	0.0	30.54	30.42	30.486	0.6	0.4	340	11	NNE	5	258	66	
11	28.7	12.2	20.5	22.0	18	86	44	0	.....	2	0.16	1.5	30.42	30.15	30.254	0.4	0.3	30	8	NNE	5	26	19	
12	22.1	6.8	14.5	15.8	12	85	50	0	.....	2	0.01	0.2	30.34	30.15	30.268	0.5	0.5	310	10	WNW	5	291	62	
13	27.4	6.8	17.1	17.3	13	84	48	0	.....	2	0.01	0.4	30.32	30.10	30.228	2.1	1.7	282	24	WNW	12	280	46	
14	25.9	13.0	19.4	20.1	15	80	45	0	.....	2	0.00	0.0	30.31	30.14	30.224	1.3	1.2	304	17	NW	8	352	36	
15	40.8	20.7	30.8	30.8	26	83	34	0	.....	2	0.00	0.0	30.33	30.07	30.222	0.6	0.3	124	15	ESE	7	151	45	
16	34.0	30.0	32.0	31.8	29	91	33	0	.....	4	0.21	2.0	30.08	29.62	29.851	0.4	0.4	22	11	N	4	22	5	
17	32.1	24.3	28.2	30.1	29	95	37	0	.....	8	0.47	3.9	29.71	29.58	29.628	0.0	0.0	0	0	N	0	29	5	
18	32.0	23.8	27.9	27.3	24	87	37	0	.....	8	0.00	0.0	29.92	29.69	29.797	2.2	2.2	236	14	SW	8	243	5	
19	29.7	22.9	26.3	26.8	23	87	38	0	.....	7	T	T	30.25	29.91	30.066	3.0	2.7	256	15	W	9	278	4	
20	26.1	16.2	21.2	23.1	21	91	44	0	.....	8	0.08	0.9	30.42	30.25	30.364	1.5	1.5	271	12	W	8	257	2	
21	30.0	13.0	21.5	22.9	19	86	43	0	.....	6	0.00	0.0	30.48	30.39	30.425	2.5	2.5	174	16	S	9	179	17	
22	35.5	15.8	25.7	26.6	22	84	39	0	.....	6	T	T	30.49	29.96	30.333	1.6	1.5	141	19	SSE	10	163	37	
23	48.9	10.5	29.7	34.4	32	89	35	0	.....	3	0.95	3.0	29.97	28.76	29.144	6.3	4.2	188	49	E	17	270	10	
24	10.5	4.4*	7.5*	7.6	3	82	57	0	.....	3	0.15	1.5	29.54	29.09	29.380	10.6	10.6	170	34	SSE	18	172	39	
25	22.0	8.3	15.2	15.4	8	73	50	0	.....	3	T	T	29.80	29.52	29.630	8.2	8.1	175	31	SSE	17	165	27	
26	24.7	17.8	21.3	20.8	14	75	43	0	.....	2	T	T	30.10	29.80	30.001	4.9	4.7	180	18	S	11	178	27	
27	25.8	18.8	22.3	21.9	16	78	42	0	.....	2	T	T	30.20	30.06	30.130	3.6	3.1	194	19	SSE	10	259	43	
28	32.7	22.7	27.7	27.0	22	80	37	0	.....	2	0.05	0.5	30.20	30.11	30.158	3.8	3.7	169	19	SSE	11	181	17	
29	46.7	32.3	39.5	39.8	28	63	25	0	.....	1	0.00	0.0	30.19	30.05	30.136	4.8	4.7	169	21	SSW	11	175	58	
30	56.0*	42.4	49.2	48.6	40	73	16	0	.....	T	0.00	0.0	30.17	29.98	30.073	5.7	5.7	172	29	SSE	12	171	38	
31	53.6	48.9	51.3*	50.7	45	82	13	0	.....	0	0.05	0.0	29.98	29.59	29.818	5.9	5.9	175	22	SSE	10	175	28	
Sum	Sum	-----	-----	---	----	Ttl	Ttl						Total	Total	For the month:						---			
1073	674					1132	0	Number of Days		3.11	13.9	30.54	28.76	30.063	3.6	2.7	189	49	S	20	167			
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl	Date	Date	-----	----	---	Date	Date	Avg						
34.6	21.7	28.2	28.7	23	80.6	----	----	≥.01 inch	13	56.52	16.5	10	23	-----	----	---	3+	3	30					
Number of Days						Season to Date	Snow, Ice ≥1.0 inch	5	Greatest in 24 Hours and Dates						Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date									
Max Temperature			Min Temperature			2572	389	Thunder	0	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	0.00	-	3.9	17				8			17+						
0	15	26	0	----	----	Clear	3	Partly Cloudy			8	Cloudy			20									

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.

OBSERVATIONS AT 3-HOUR INTERVALS

December 2022: Westford

Table with 30 columns: Hour, Sunshine, Pressure, Rainfall rate, Temperature, Dew Point, Humidity, Direction, Wind Speed, Wind Gust, and 29 more columns. It is organized into 18 sections corresponding to dates from DEC 01 to DEC 18.

MAXIMUM SHORT DURATION PRECIPITATION

Table with 12 columns: Time Period (minutes) (5, 10, 15, 20, 30, 45, 60, 80, 100, 120, 150, 180), Precipitation (0.00), Ended: Date (---), and Ended: Time (----).

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.

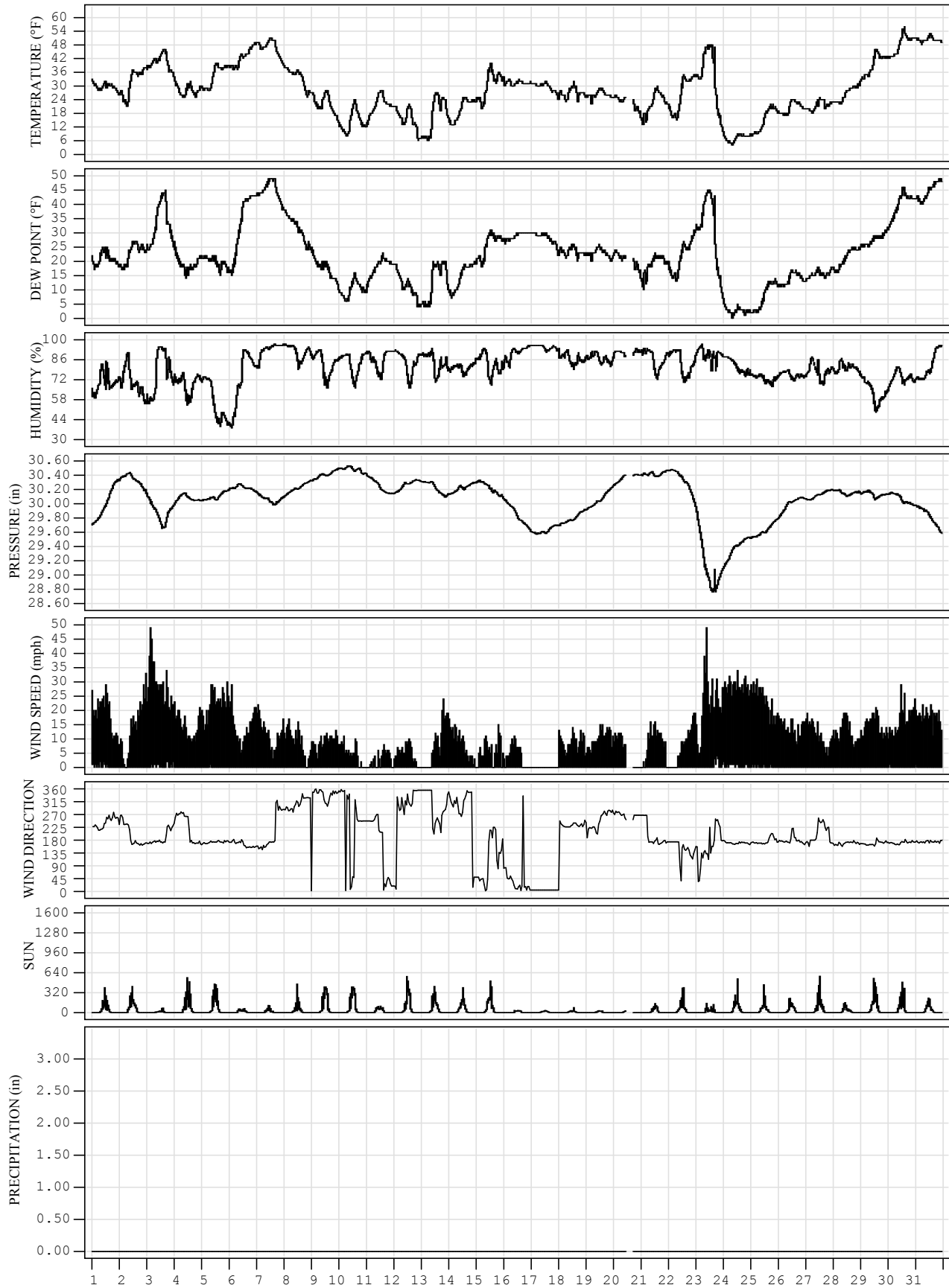


## HOURLY PRECIPITATION (Water Equivalent) December 2022: Westford

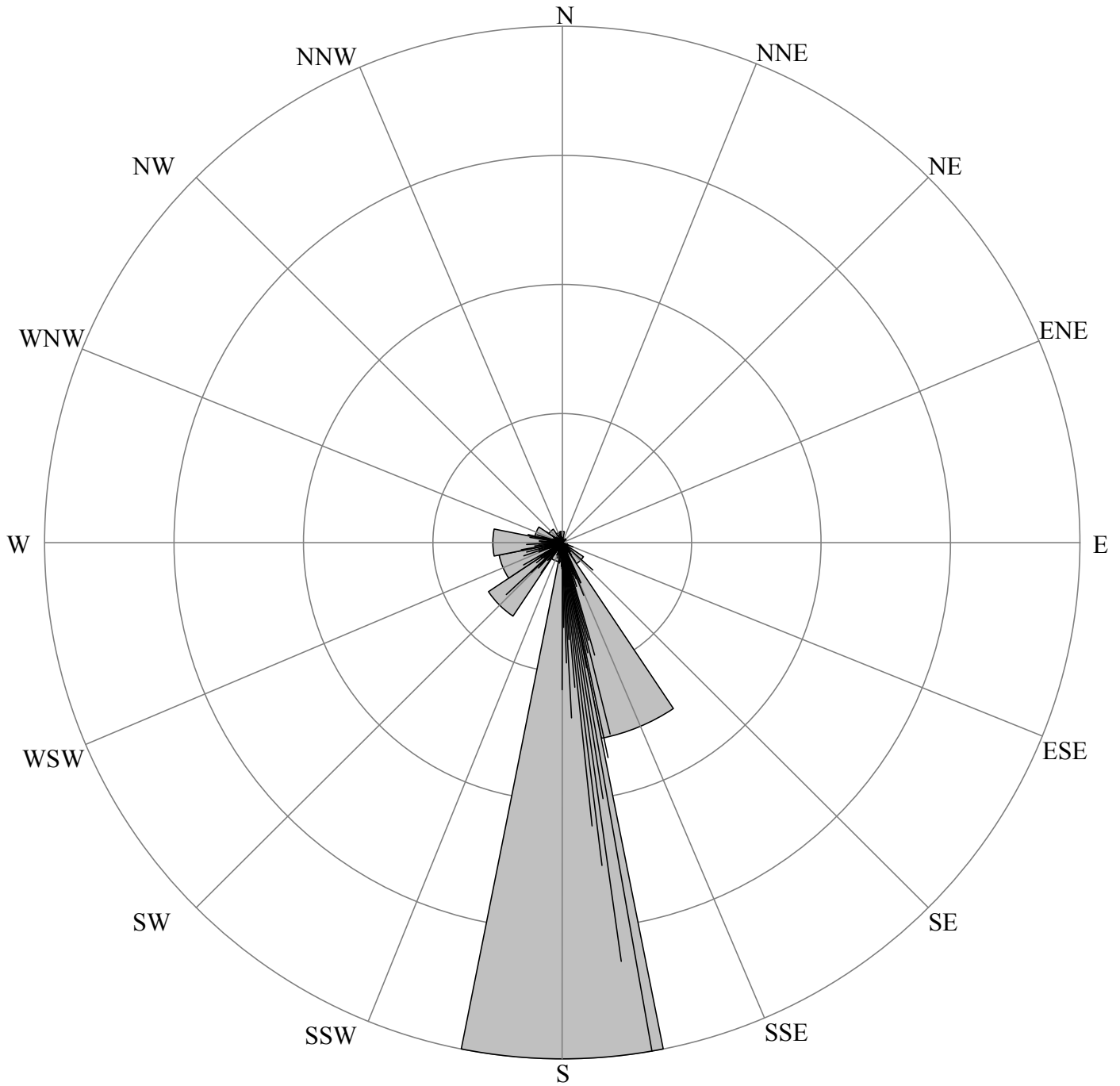
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01																								01	
02																									02
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29																									29
30																									30
31																									31
<b>Sum</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>Sum</b>

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 December 2022: Westford



Wind Rose: December 2022  
Westford



Maximum direction of wind: 235.7 miles from 170°  
Maximum sector of wind: 1298.4 miles from S  
2670.8 total miles of wind