

# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary

### November 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
1	2	3	4A	4B	5	6	7	8		11	12	13	14	15	16	17	18	19	20	21	22	23			
1	59.1	46.8	52.9	54.5	52	90	12	0	.....	0	0.03	0.0	30.09	29.88	29.938	1.9	1.9	177	15	S	10	174	21		
2	58.8	34.5	46.6	46.3	40	82	18	0	.....	0	0.01	0.0	30.36	30.09	30.280	0.3	0.2	317	8	NNW	4	259	99		
3	65.8	32.4	49.1	48.3	37	69	16	0	.....	0	0.00	0.0	30.35	30.21	30.282	2.6	2.6	173	22	S	11	178	103		
4	67.8	50.5	59.2	58.0	45	62	5	0	.....	0	0.00	0.0	30.22	30.08	30.165	6.1	6.1	173	24	SSE	12	175	96		
5	71.4*	57.7	64.6*	64.6	57	76	0	0	.....	0	0.00	0.0	30.09	29.94	30.030	7.5	7.5	177	30	SSE	16	178	66		
6	69.6	57.9	63.8	64.3	60	86	1	0	.....	0	1.35	0.0	29.99	29.91	29.954	5.9	5.4	185	35	SSE	16	182	27		
7	62.6	41.5	52.0	53.9	39	59	12	0	.....	0	0.00	0.0	30.33	29.95	30.073	6.4	6.0	248	27	W	18	255	99		
8	42.5	28.5	35.5	37.1	26	65	29	0	.....	0	0.00	0.0	30.68	30.33	30.554	3.7	3.6	289	25	W	13	272	98		
9	50.1	22.1	36.1	37.5	22	59	29	0	.....	0	0.00	0.0	30.68	30.25	30.510	4.2	4.1	174	33	S	15	171	95		
10	61.8	44.6	53.2	52.8	34	48	11	0	.....	0	0.00	0.0	30.25	30.01	30.118	8.7	8.7	178	29	S	17	172	66		
11	66.8	53.3	60.1	58.9	52	80	5	0	.....	0	0.64	0.0	30.01	29.44	29.841	4.6	4.6	177	24	S	13	179	57		
12	68.0	43.2	55.6	54.8	52	90	9	0	.....	0	0.86	0.0	29.74	29.25	29.498	4.4	3.5	227	26	SSE	15	177	21		
13	43.3	28.7	36.0	37.4	35	90	29	0	.....	0	0.07	0.0	30.01	29.73	29.848	1.8	1.7	283	18	WNW	9	265	15		
14	34.9	23.8	29.4	29.0	21	71	35	0	.....	0	T	T	30.41	30.01	30.241	4.2	4.2	263	25	W	14	255	56		
15	35.4	20.2	27.8	27.6	22	80	37	0	.....	0	0.00	0.0	30.50	30.25	30.410	0.1	0.1	66	8	ESE	5	143	54		
16	34.5	28.6	31.6	31.2	30	95	33	0	.....	3	0.50	2.6	30.25	29.76	29.899	0.6	0.4	250	13	NNE	7	265	5		
17	32.0	21.7	26.9	28.1	22	79	38	0	.....	2	T	T	29.93	29.71	29.789	4.7	4.6	248	24	W	14	262	32		
18	35.8	20.2	28.0	28.5	22	76	37	0	.....	2	0.01	T	29.98	29.87	29.908	3.7	3.4	202	18	WSW	11	236	34		
19	35.6	25.9	30.7	29.5	21	71	34	0	.....	1	T	T	30.06	29.88	29.990	4.4	4.4	177	18	SSE	10	172	69		
20	29.9	14.5	22.2*	23.8	13	65	42	0	.....	1	T	T	30.23	29.77	29.921	7.7	6.8	238	34	W	19	246	48		
21	36.6	9.0*	22.8	23.6	14	66	42	0	.....	1	T	T	30.30	29.94	30.130	6.8	6.3	181	33	SSE	17	170	57		
22	36.6	20.7	28.6	29.8	21	69	36	0	.....	1	0.00	0.0	30.32	30.05	30.195	2.2	1.9	251	25	W	15	260	86		
23	33.3	20.7	27.0	29.6	26	87	38	0	.....	1	T	T	30.35	30.04	30.194	0.7	0.2	263	9	NNW	5	215	13		
24	41.9	17.2	29.6	29.8	25	84	35	0	.....	1	0.00	0.0	30.37	30.01	30.251	2.0	2.0	170	15	S	8	171	72		
25	41.6	33.0	37.3	38.7	33	79	27	0	.....	T	0.04	T	30.01	29.57	29.757	6.9	4.6	220	30	WNW	16	260	8		
26	45.6	32.1	38.8	37.6	29	71	26	0	.....	0	0.00	0.0	29.95	29.76	29.847	4.1	3.0	213	21	SSE	12	170	79		
27	53.0	33.7	43.4	41.5	31	69	21	0	.....	0	0.35	0.0	29.79	29.23	29.578	2.6	2.5	168	17	SSE	9	176	56		
28	38.2	28.5	33.4	33.8	31	91	31	0	.....	0	0.12	0.0	30.08	29.23	29.677	3.3	3.2	281	17	WNW	10	266	7		
29	31.5	27.7	29.6	29.7	24	78	35	0	.....	0	0.00	0.0	30.27	30.08	30.213	0.8	0.7	174	11	SSE	5	154	22		
30	47.4	28.8	38.1	37.5	33	83	27	0	.....	0	0.56	0.0	30.17	29.45	29.771	6.7	5.3	189	29	S	18	247	13		
Sum	Sum	-----	-----	---	----	Ttl	Ttl						Total	Total	For the month:						---				
1431	948					750	0		Number of Days				4.54	2.6	30.68	29.23	30.029	4.0	2.9	206	35	SSE	19	246	
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip				Season Ttl	Date	Date	-----	----	---		Date	Date	Avg			
47.7	31.6	39.7	39.9	32	75.7	----	----		≥.01 inch	12			53.36	2.6	9	27	-----	----	---		Date	Date	Avg		
Number of Days						Season to Date	Snow, Ice ≥1.0 inch	1	Greatest in 24 Hours and Dates						Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date										
Max Temperature			Min Temperature			1440	389	Thunder	0	Precipitation			Snow, Ice Plts												
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	1.50	11-12	2.6	16				3			16							
0	3	19	0	----	----	Clear	6	Partly Cloudy			6	Cloudy			18										

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

## November 2022: Westford

Hour	NOV 01									NOV 02									NOV 03								
	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust
00	0	29.88	0.00	55	47	76	18	4	9	0	30.09	0.00	47	46	97	00	0	0	0	30.34	0.00	35	31	87	27	0	0
03	0	29.90	0.00	53	51	92	17	0	0	0	30.14	0.00	44	43	97	00	0	0	0	30.34	0.00	34	30	88	25	0	0
06	0	29.90	0.00	54	51	90	16	4	7	0	30.21	0.00	45	44	98	00	0	4	0	30.34	0.00	34	30	87	25	0	0
09	67	29.92	0.00	55	52	89	16	1	9	37	30.31	0.00	46	45	98	00	0	2	23	30.34	0.00	39	35	87	18	3	5
12	76	29.93	0.00	58	53	86	17	3	10	534	30.35	0.00	54	46	74	34	1	8	457	30.30	0.00	60	39	46	16	7	17
15	98	29.90	0.00	59	56	91	18	2	5	134	30.32	0.00	58	36	44	25	1	4	95	30.23	0.00	66	43	44	17	4	15
18	0	29.96	0.00	57	55	93	22	0	3	0	30.33	0.00	46	37	69	27	0	0	0	30.22	0.00	56	42	61	17	2	7
21	0	30.03	0.00	52	50	96	00	0	0	0	30.35	0.00	38	34	85	27	0	0	0	30.22	0.00	52	42	70	16	2	6
NOV 04									NOV 05									NOV 06									
00	0	30.22	0.00	51	43	73	18	3	10	0	30.09	0.00	60	50	68	16	9	17	0	29.94	0.00	67	57	70	18	11	28
03	0	30.20	0.00	52	42	69	16	5	11	0	30.09	0.00	59	52	76	18	7	21	0	29.95	0.00	66	58	77	18	8	24
06	0	30.20	0.00	52	40	65	17	6	16	0	30.08	0.00	58	54	84	17	6	12	0	29.96	0.00	66	59	79	16	5	22
09	28	30.20	0.00	53	41	64	17	5	16	30	30.06	0.00	59	55	87	17	8	17	76	29.98	0.00	68	61	77	18	11	28
12	399	30.20	0.00	63	45	51	17	11	19	179	30.05	0.00	69	59	70	16	8	19	121	29.96	0.00	65	61	89	25	3	8
15	132	30.14	0.00	67	48	50	17	9	18	139	30.00	0.00	70	60	72	18	10	18	12	29.96	0.86	62	60	94	24	4	16
18	0	30.11	0.00	61	49	63	18	5	16	0	29.98	0.00	68	60	74	19	7	16	0	29.93	0.00	62	61	97	17	4	10
21	0	30.12	0.00	60	50	69	18	7	17	0	29.98	0.00	68	59	71	18	6	23	0	29.95	0.15	62	60	96	24	2	9
NOV 07									NOV 08									NOV 09									
00	0	29.97	0.00	58	57	96	20	2	5	0	30.33	0.00	42	30	63	27	5	14	0	30.67	0.00	29	23	78	35	1	5
03	0	29.95	0.00	57	48	72	22	6	11	0	30.36	0.00	41	30	64	27	8	14	0	30.66	0.00	25	22	87	35	0	0
06	0	29.97	0.00	54	46	74	18	0	7	0	30.45	0.00	37	27	66	28	5	18	0	30.64	0.00	23	21	92	35	0	1
09	272	30.01	0.00	58	46	64	20	9	19	311	30.57	0.00	38	25	61	33	5	15	255	30.64	0.00	32	28	85	11	0	4
12	471	29.99	0.00	62	38	40	23	9	23	475	30.60	0.00	41	26	55	01	3	12	459	30.55	0.00	44	26	50	20	2	11
15	165	30.07	0.00	57	34	43	26	8	21	167	30.62	0.00	41	25	53	27	8	13	127	30.45	0.00	49	23	36	17	7	13
18	0	30.18	0.00	50	33	53	27	12	26	0	30.65	0.00	35	24	65	32	1	6	0	30.36	0.00	46	12	25	16	10	19
21	0	30.27	0.00	45	29	53	28	6	13	0	30.67	0.00	31	25	77	33	3	8	0	30.31	0.00	47	23	40	18	11	24
NOV 10									NOV 11									NOV 12									
00	0	30.25	0.00	45	25	45	17	9	22	0	30.01	0.00	57	46	66	18	8	22	0	29.44	0.00	61	60	97	18	4	10
03	0	30.22	0.00	45	24	44	18	9	28	0	30.00	0.00	55	47	74	17	6	15	0	29.31	0.00	67	65	94	17	11	21
06	0	30.19	0.00	46	26	46	17	8	24	0	30.00	0.00	54	48	79	17	5	17	0	29.31	0.21	61	59	96	28	4	10
09	120	30.17	0.00	49	31	51	17	9	24	165	29.98	0.00	58	51	77	17	6	15	69	29.40	0.00	52	51	97	26	5	14
12	432	30.10	0.00	57	34	42	17	11	22	385	29.89	0.00	66	54	66	16	6	20	114	29.48	0.00	54	53	97	22	6	14
15	141	30.05	0.00	61	37	40	17	10	16	26	29.82	0.00	64	53	69	17	4	14	12	29.56	0.00	56	53	90	19	0	3
18	0	30.05	0.00	58	38	48	17	11	18	0	29.74	0.10	59	57	94	16	2	8	0	29.65	0.00	48	42	80	24	9	16
21	0	30.03	0.00	58	43	59	17	9	17	0	29.57	0.06	58	57	96	12	1	7	0	29.70	0.00	47	40	79	23	3	7
NOV 13									NOV 14									NOV 15									
00	0	29.73	0.00	43	40	90	34	0	0	0	30.01	0.00	29	24	81	27	9	13	0	30.41	0.00	24	21	87	28	0	0
03	0	29.75	0.00	43	41	93	34	0	0	0	30.08	0.00	28	20	73	27	7	12	0	30.43	0.00	22	19	89	28	0	0
06	0	29.78	0.00	43	41	93	26	2	7	0	30.16	0.00	27	19	69	28	5	16	0	30.46	0.00	23	20	88	28	0	0
10	49	29.81	0.00	41	40	94	28	0	0	146	30.24	0.00	30	20	66	25	11	16	244	30.49	0.00	27	23	87	28	0	1
12	28	29.81	0.00	40	38	94	28	3	11	520	30.25	0.00	33	20	60	26	5	13	251	30.45	0.00	33	23	67	08	0	2
15	25	29.85	0.00	35	34	94	30	1	11	65	30.28	0.00	33	22	63	29	5	10	49	30.41	0.00	33	23	67	33	0	0
18	0	29.92	0.00	33	30	89	28	3	14	0	30.34	0.00	29	21	73	27	1	6	0	30.35	0.00	28	22	77	02	0	4
21	0	29.98	0.00	30	23	77	27	6	13	0	30.38	0.00	27	21	79	28	0	0	0	30.34	0.00	29	23	78	02	0	2
NOV 16									NOV 17									NOV 18									
00	0	30.25	0.00	29	26	90	15	0	1	0	29.77	0.00	30	28	93	24	1	7	0	29.93	0.00	22	15	76	25	3	8
03	0	30.13	0.00	29	27	92	15	0	0	0	29.76	0.00	29	26	89	25	6	13	0	29.91	0.00	23	18	81	25	0	0
06	0	30.01	0.00	30	28	94	10	0	0	0	29.75	0.00	28	23	82	25	4	15	0	29.88	0.00	24	19	81	17	5	11
09	5	29.94	0.00	32	30	96	18	0	0	127	29.74	0.00	30	23	76	22	3	12	155	29.90	0.00	29	23	81	17	7	13
12	19	29.80	0.00	33	32	95	03	0	0	77	29.72	0.00	31	24	75	23	5	14	220	29.88	0.00	34	25	70	22	7	13
15	23	29.76	0.00	34	33	95	18	1	7	51	29.76	0.00	30	23	77	25	5	17	19	29.87	0.00	33	23	66	21	3	5
18	0	29.78	0.00	33	32	96	19	0	0	0	29.84	0.00	26	21	79	27	3	11	0	29.92	0.00	32	24	72	24	5	15
21	0	29.79	0.00	31	30	96	28	3	10	0	29.90	0.00	24	20	83	28	3	13	0	29.95	0.00	31	24	75	21	8	14

### MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.17	0.31	0.37	0.46	0.65	0.72	0.74	0.75	0.77	0.91	0.95	0.95
Ended: Date	06	06	06	06	06	06	06	06	06	06	06	06
Ended: Time	2150	2155	2156	2205	2212	2226	2238	2230	2230	2218	2238	2238

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

## November 2022: Westford

Hour	NOV 19									NOV 20									NOV 21								
	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust
00	0	29.97	0.00	29	24	82	16	5	10	0	29.88	0.00	28	18	66	16	4	9	0	30.23	0.00	15	5	66	24	4	16
03	0	30.00	0.00	27	22	81	17	6	15	0	29.81	0.00	26	18	72	16	4	9	0	30.27	0.00	12	5	72	23	1	3
06	0	30.04	0.00	28	22	78	18	4	11	0	29.78	0.00	25	20	81	16	4	11	0	30.29	0.00	12	6	77	17	3	8
09	218	30.06	0.00	29	22	75	20	2	12	86	29.81	0.00	26	17	68	22	8	17	113	30.27	0.00	20	10	65	16	4	12
12	343	30.02	0.00	35	23	62	19	3	12	53	29.86	0.00	27	16	64	21	8	20	156	30.14	0.00	27	18	69	17	7	22
15	134	29.97	0.00	34	22	62	16	4	17	62	29.91	0.00	25	7	47	25	9	27	35	30.02	0.00	28	19	67	17	8	24
18	0	29.96	0.00	30	20	66	17	5	18	0	30.01	0.00	23	4	43	26	12	22	0	29.96	0.00	31	19	60	17	8	25
21	0	29.93	0.00	28	19	68	17	3	10	0	30.12	0.00	18	6	60	25	10	22	0	29.96	0.00	33	19	55	17	10	24
NOV 22									NOV 23									NOV 24									
00	0	30.05	0.00	36	27	68	25	7	16	0	30.06	0.00	32	25	77	17	2	5	0	30.35	0.00	21	19	92	34	0	0
03	0	30.20	0.00	31	21	67	29	5	21	0	30.06	0.00	32	27	82	19	1	4	0	30.36	0.00	20	18	92	34	0	0
06	0	30.29	0.00	26	18	73	27	2	10	0	30.11	0.00	32	30	90	22	2	4	0	30.35	0.00	18	16	93	34	0	0
09	200	30.31	0.00	23	14	68	25	0	4	37	30.16	0.00	33	29	86	34	0	4	190	30.35	0.00	25	23	95	21	2	6
12	464	30.26	0.00	33	19	56	23	3	7	51	30.18	0.00	31	28	87	34	1	4	415	30.27	0.00	38	31	74	15	3	11
15	79	30.18	0.00	35	21	57	18	1	6	26	30.22	0.00	31	27	86	32	0	4	46	30.20	0.00	39	31	73	15	1	5
18	0	30.15	0.00	27	22	79	17	0	0	0	30.29	0.00	29	27	90	34	0	3	0	30.16	0.00	31	28	89	16	0	0
21	0	30.11	0.00	31	24	74	17	0	4	0	30.34	0.00	24	22	91	34	0	0	0	30.09	0.00	38	31	76	17	6	11
NOV 25									NOV 26									NOV 27									
00	0	30.01	0.00	39	31	74	17	2	11	0	29.86	0.00	33	27	79	25	1	14	0	29.78	0.00	38	29	70	16	5	7
03	0	29.91	0.00	40	31	70	15	6	16	0	29.90	0.00	33	26	77	27	3	15	0	29.77	0.00	39	27	62	16	5	11
06	0	29.81	0.00	41	34	74	17	8	17	0	29.92	0.00	33	26	76	24	2	9	0	29.74	0.00	35	26	68	17	2	5
09	18	29.68	0.00	41	36	81	17	7	17	74	29.93	0.00	34	28	77	25	0	0	100	29.72	0.00	43	29	57	16	1	6
12	49	29.59	0.00	41	37	85	18	8	18	425	29.86	0.00	43	32	64	18	4	16	190	29.63	0.00	50	29	44	17	4	13
15	5	29.62	0.00	39	37	90	27	9	23	63	29.79	0.00	44	31	60	19	5	15	11	29.52	0.00	49	28	44	16	2	6
18	0	29.72	0.00	37	32	83	28	4	17	0	29.77	0.00	42	31	65	17	5	14	0	29.42	0.00	41	38	90	13	0	1
21	0	29.78	0.00	36	29	77	27	8	22	0	29.79	0.00	38	30	73	18	2	7	0	29.30	0.00	38	37	95	08	1	4
NOV 28									NOV 29									NOV 30									
00	0	29.23	0.00	38	37	96	03	0	0	0	30.08	0.00	29	23	80	25	2	6	0	30.17	0.00	31	24	77	14	3	9
03	0	29.29	0.00	36	35	96	27	1	9	0	30.14	0.00	28	23	81	26	0	2	0	30.08	0.00	31	26	79	13	4	17
06	0	29.46	0.00	35	35	97	29	3	14	0	30.19	0.00	28	23	81	26	0	2	0	29.99	0.00	34	28	79	17	4	19
09	7	29.59	0.00	35	35	97	29	3	17	62	30.25	0.00	29	22	76	26	0	0	23	29.87	0.00	38	33	82	15	7	17
12	21	29.68	0.00	35	34	95	27	2	14	100	30.24	0.00	31	24	74	18	0	6	46	29.67	0.00	42	37	84	15	8	25
15	18	29.79	0.00	34	30	87	26	2	11	39	30.24	0.00	31	24	75	16	1	6	9	29.46	0.00	44	42	91	17	5	16
18	0	29.91	0.00	31	27	84	32	1	10	0	30.26	0.00	31	24	77	13	0	0	0	29.53	0.00	45	43	94	23	13	22
21	0	30.02	0.00	29	24	80	26	3	10	0	30.23	0.00	31	25	79	12	1	4	0	29.64	0.00	37	31	77	22	10	19

### 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

Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
00	0	30.034	38	32	79	3.4	20	2.5
03	0	30.033	37	31	79	3.7	20	2.6
06	0	30.042	37	31	81	3.1	20	2.1
09	110	30.056	39	33	79	3.9	20	3.0
12	251	30.024	44	34	70	4.8	20	3.6
15	67	29.999	45	34	68	4.3	21	3.1
18	0	30.014	41	32	74	4.1	22	2.9
21	0	30.028	39	32	76	4.1	22	3.0

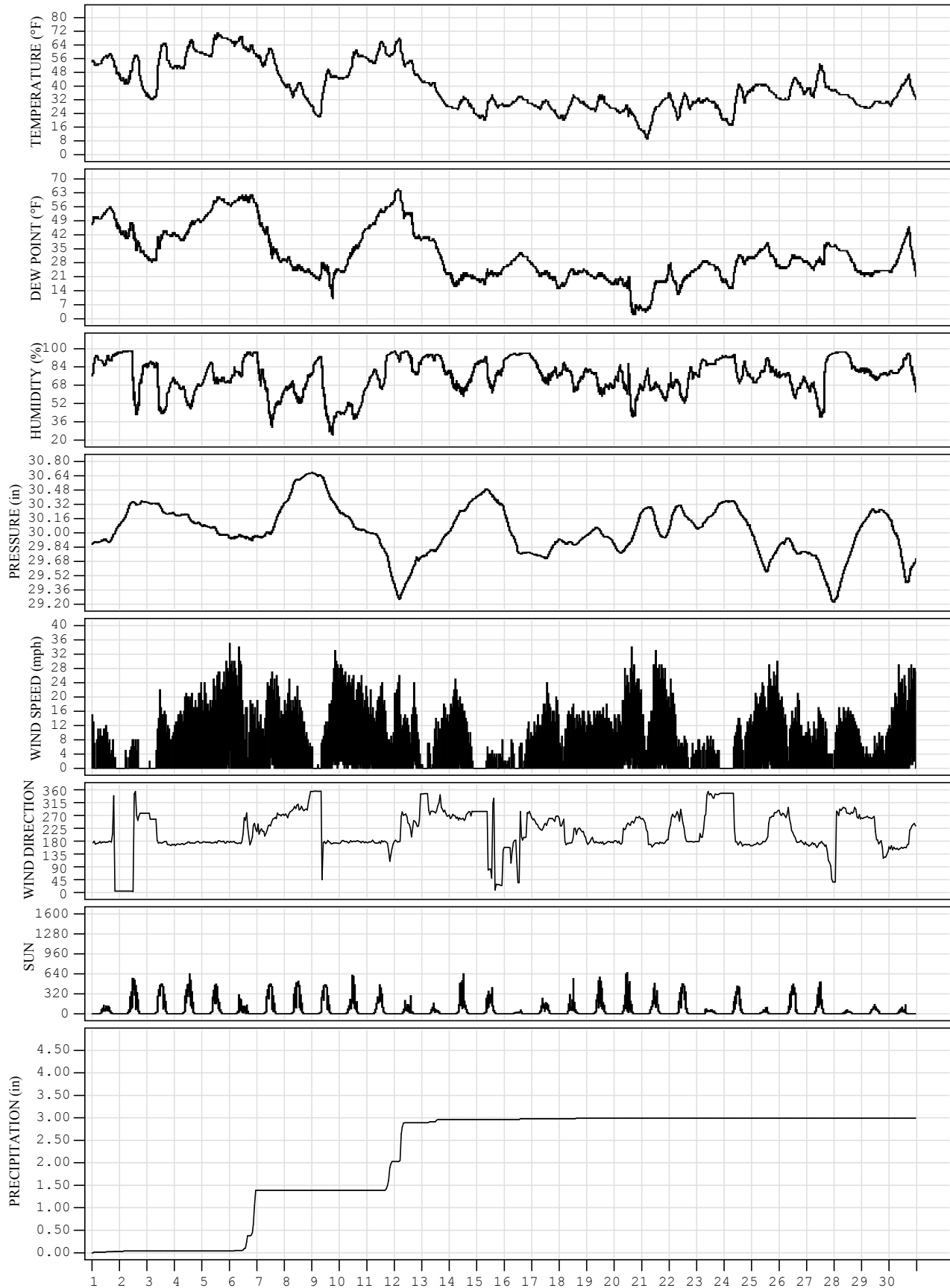
**HOURLY PRECIPITATION (Water Equivalent)  
November 2022: Westford**

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		0.01											0.01						0.01						01
02				0.01																					02
03																									03
04																									04
05																									05
06					0.01							0.01	0.03	0.01	0.14	0.14			0.01	0.05	0.19	0.42	0.34		06
07																									07
08																									08
09																									09
10																									10
11																	0.03	0.07	0.12	0.28	0.08	0.06			11
12					0.02	0.59	0.15	0.09	0.01																12
13						0.01	0.01					0.01	0.03	0.01											13
14																									14
15																									15
16																									16
17														0.02											17
18																0.01									18
19																									19
20																									20
21																									21
22																									22
23																									23
24																									24
25																									25
26																									26
27																									27
28																									28
29																									29
30																									30
Sum	0.00	0.01	0.00	0.01	0.03	0.60	0.16	0.09	0.01	0.00	0.00	0.02	0.07	0.04	0.15	0.14	0.03	0.07	0.14	0.33	0.27	0.48	0.34	0.00	Sum

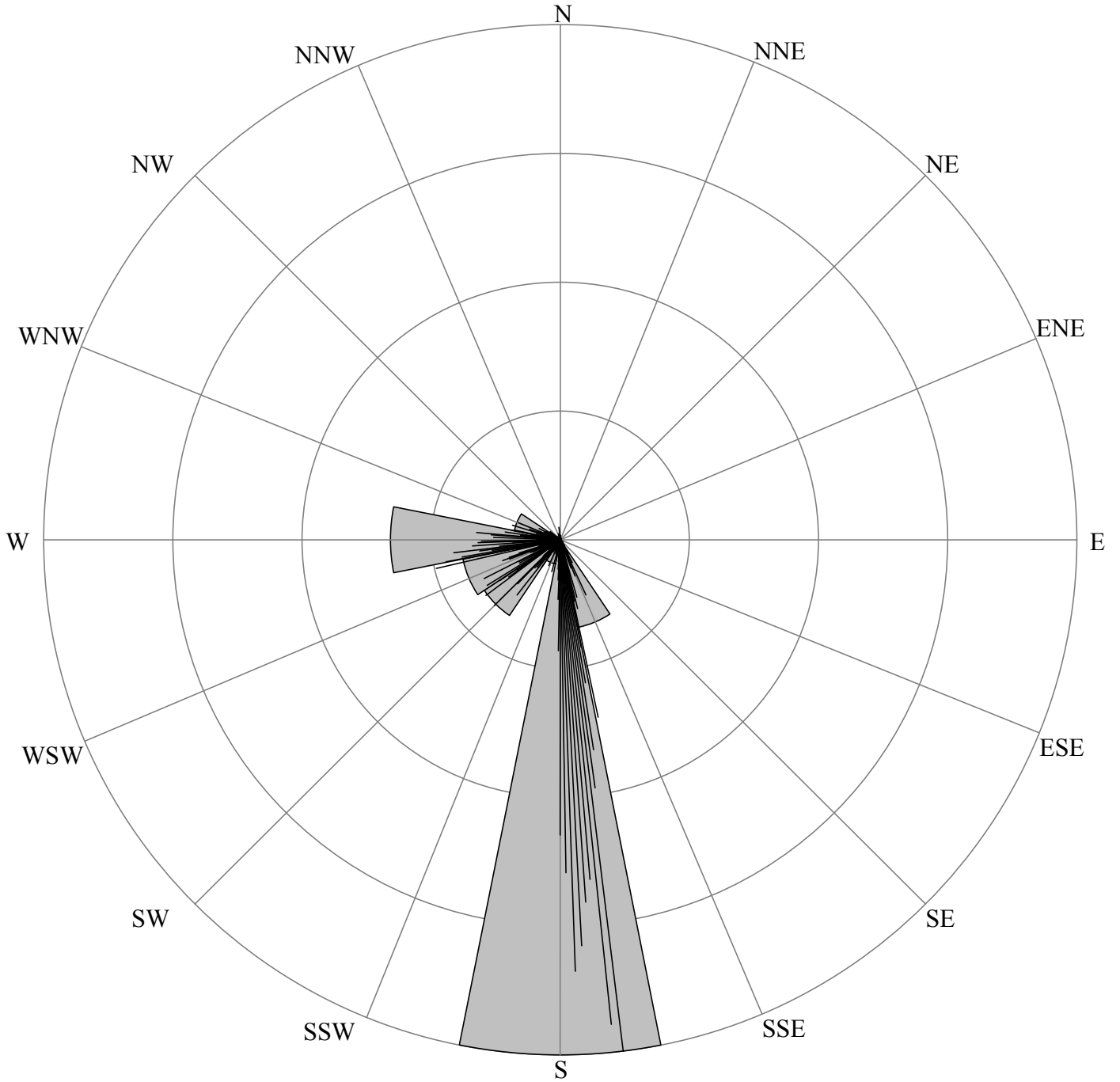
During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

# HOUR-BY-HOUR DATA

## November 2022: Westford



Wind Rose: November 2022  
Westford



Maximum direction of wind: 173.2 miles from 173°  
Maximum sector of wind: 1411.5 miles from S  
2874.2 total miles of wind