

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

November 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		11	12	13	14	15	16	17	18	19	20	21	22	23		
1	47.6	32.0	39.8	40.3	34	79	25	0	.....	0	0.02	0.0	30.31	30.12	30.239	1.1	1.0	213	18	SW	9	202	58
2	60.9	40.1	50.5*	51.7	50	93	14	0	.....	0	0.24	0.0	30.23	29.95	30.086	6.1	6.0	212	28	SSW	16	215	17
3	61.5*	38.0	49.8	52.2	48	86	15	0	.....	0	0.15	0.0	30.23	29.83	29.963	4.8	3.5	242	28	SSW	15	220	25
4	44.0	29.3	36.6	36.6	32	84	28	0	.....	0	0.39	0.0	30.40	30.23	30.328	0.1	0.1	338	10	NW	4	310	61
5	55.3	35.1	45.2	47.3	41	78	20	0	.....	0	0.28	0.0	30.31	29.81	30.073	4.5	4.4	193	26	S	12	188	38
6	58.0	33.2	45.6	49.2	46	89	19	0	.....	0	0.26	0.0	30.14	29.70	29.857	5.1	3.3	236	33	SSW	15	221	15
7	36.1	23.3	29.7	31.4	25	79	35	0	.....	0	0.00	0.0	30.28	30.14	30.225	0.3	0.2	321	18	NW	8	310	45
8	43.9	19.9	31.9	29.9	23	77	33	0	.....	0	0.01	0.0	30.32	30.21	30.259	0.1	0.1	225	9	WNW	5	295	83
9	43.2	25.1	34.2	36.8	27	68	31	0	.....	0	0.00	0.0	30.22	29.66	30.017	4.1	4.1	209	30	SW	14	208	69
10	43.3	15.5	29.4	21.1	14	73	35	0	..3.....	T	0.11	0.2	30.43	29.66	30.141	8.2	7.9	304	29	N	18	305	64	
11	27.5	14.8	21.2*	19.4	14	78	43	0	.....	0	T	T	30.60	30.43	30.529	0.9	0.9	324	22	WNW	10	317	74
12	37.3	19.1	28.2	27.4	16	64	37	0	.....	0	0.01	0.0	30.47	30.39	30.422	0.7	0.7	212	13	SSW	6	215	55
13	35.2	20.4	27.8	28.7	23	80	37	0	.....	0	T	T	30.40	30.34	30.367	0.1	0.1	230	10	SSW	7	214	42
14	34.4	29.5	32.0	31.2	26	83	33	0	.....	0	T	T	30.35	30.28	30.322	0.0	0.0	0	0	SW	0	222	19
15	44.0	24.5	34.3	33.5	27	79	30	0	.....	0	0.00	0.0	30.30	29.91	30.166	1.3	1.3	198	18	SSW	10	214	74
16	46.8	31.4	39.1	40.0	35	83	26	0	.....	0	0.02	0.0	29.91	29.62	29.719	3.3	2.3	222	26	WNW	16	306	21
17	31.4	14.8	23.1	24.3	21	87	42	0	.....	2	0.19	1.9	30.08	29.74	29.975	4.4	4.4	313	27	NW	15	300	33
18	37.9	15.1	26.5	27.9	21	77	38	0	.....	1	0.07	0.0	30.01	29.26	29.691	0.8	0.8	189	13	SSE	6	181	32
19	45.7	25.8	35.8	33.8	31	89	29	0	.....	1	0.32	0.5	29.62	28.99	29.299	5.6	4.4	281	27	WNW	18	293	11
20	26.3	19.5	22.9	22.3	18	83	42	0	.....	2	0.00	0.5	30.00	29.62	29.848	1.2	1.2	302	30	W	15	281	28
21	49.8	23.1	36.4	39.6	27	63	28	0	.....	0	0.11	0.0	29.97	29.75	29.854	4.9	4.9	205	32	SW	14	198	66
22	45.5	22.6	34.1	35.2	29	79	30	0	.....	T	0.12	0.2	30.05	29.83	29.919	2.5	1.5	298	22	NW	12	331	15
23	30.1	15.3	22.7	23.2	17	77	42	0	.....	T	0.00	0.0	30.10	29.88	30.001	1.6	1.0	243	23	WNW	11	307	44
24	42.9	30.0	36.5	36.4	28	73	28	0	.....	0	0.01	0.0	29.92	29.66	29.818	5.5	5.5	209	29	S	16	217	40
25	49.6	36.3	42.9	43.4	32	65	22	0	.....	0	0.10	0.0	29.67	29.52	29.578	4.7	4.4	220	30	SSW	14	210	31
26	36.3	23.1	29.7	27.6	25	90	35	0	.....	1	0.04	1.5	29.87	29.63	29.790	1.5	1.4	317	23	WNW	12	308	13
27	29.4	13.8	21.6	22.1	18	85	43	0	.....	3	0.17	1.8	30.31	29.73	30.011	2.2	1.7	311	20	NNW	13	309	8
28	41.5	8.3*	24.9	27.8	20	72	40	0	.....	1	0.01	0.0	30.35	29.91	30.168	4.8	4.8	205	37	SSW	19	209	54
29	47.0	21.3	34.1	36.5	31	79	31	0	.....	0	0.13	T	30.33	29.84	30.048	2.9	1.9	242	29	SSW	16	310	26
30	40.7	16.2	28.5	30.6	21	71	36	0	.....	0	0.07	0.0	30.31	29.88	30.068	4.5	4.5	206	31	SSW	15	213	53
Sum	Sum	-----	-----	---	----		Ttl	Ttl			Total	Total	For the month:										---	
	1273	716					947	0	Number of Days		2.83	6.6	30.60	28.99	30.026	2.9	1.9	239	37	SSW	19	209		
Avg	Avg	Avg	Mean	Avg	Avg		----	----	Precip		Season Ttl	Date	Date	-----	----	---		Date	Date	Avg				
	42.4	23.9	33.2	33.6	27	78.7	----	----	≥.01 inch	22	39.60	6.6	11	19	-----	----	---		28	28	41			
Number of Days							Season to Date	Snow, Ice ≥1.0 inch	3	Greatest in 24 Hours and Dates					Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date									
Max Temperature			Min Temperature			1465	340	Thunder	1	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----			Heavy Fog	0	0.57	18-19	1.9	17	3			27							
0	5	25	0	----	----			Clear	0	Partly Cloudy		12	Cloudy		18									

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.

OBSERVATIONS AT 3-HOUR INTERVALS November 2017: 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	30.17	0.00	38	32	80	00	0	0	0	30.18	0.00	42	40	95	20	1	5	0	29.95	0.00	61	57	86	22	5	18
03	0	30.21	0.00	33	30	88	00	0	0	0	30.12	0.00	45	44	96	22	2	9	0	29.90	0.00	61	57	85	21	10	21
06	0	30.25	0.00	34	33	94	00	0	0	12	30.09	0.00	50	49	97	21	8	13	46	29.84	0.00	61	57	85	21	9	21
09	12	30.30	0.00	46	36	68	20	3	11	51	30.08	0.00	55	53	93	21	11	27	84	29.85	0.00	58	57	95	22	7	13
12	195	30.30	0.00	47	33	58	20	4	11	25	30.05	0.00	57	54	88	21	6	20	118	29.88	0.00	49	48	95	32	3	15
15	153	30.26	0.00	43	34	69	18	0	0	0	30.05	0.00	57	54	91	21	8	21	0	29.93	0.00	51	48	89	30	0	10
18	0	30.25	0.00	43	34	69	18	0	0	0	30.05	0.00	57	54	91	21	8	21	0	30.08	0.00	45	38	76	31	3	7
21	0	30.25	0.00	40	37	89	21	0	0	0	30.01	0.00	57	55	92	21	5	13	0	30.17	0.00	42	35	74	30	1	16
00	0	30.23	0.00	38	32	79	33	2	14	0	30.31	0.00	36	31	83	19	0	0	0	29.81	0.00	55	54	94	21	10	20
03	0	30.25	0.00	34	31	89	33	0	0	0	30.26	0.00	43	33	68	17	3	18	0	29.71	0.00	57	55	92	20	7	25
06	0	30.28	0.00	32	30	93	05	0	0	0	30.21	0.00	43	34	70	19	3	14	0	29.70	0.00	57	55	93	21	8	13
09	28	30.38	0.00	34	32	95	05	0	0	114	30.16	0.00	45	36	71	18	4	11	47	29.72	0.00	58	56	95	22	9	18
12	420	30.39	0.00	40	33	77	02	0	0	132	30.08	0.00	51	40	65	18	8	16	42	29.79	0.00	52	50	95	32	1	8
15	148	30.35	0.00	43	34	70	04	0	5	32	29.99	0.00	51	44	76	18	8	19	60	29.88	0.00	48	46	94	32	5	16
18	0	30.37	0.00	38	32	79	04	0	0	0	29.93	0.00	50	47	88	19	3	14	0	30.00	0.00	42	37	83	31	3	16
21	0	30.34	0.00	37	33	84	04	0	0	0	29.88	0.00	52	50	94	21	6	12	0	30.08	0.00	35	28	78	33	2	16
00	0	30.14	0.00	35	28	76	33	2	16	0	30.27	0.00	26	24	92	10	0	0	0	30.22	0.00	25	22	86	19	0	0
03	0	30.17	0.00	33	28	80	00	0	0	0	30.26	0.00	22	20	92	10	0	0	0	30.19	0.00	33	23	67	19	1	7
06	0	30.21	0.00	32	25	76	33	0	8	0	30.28	0.00	21	19	93	10	0	0	0	30.18	0.00	29	21	73	19	0	5
09	116	30.26	0.00	34	27	76	32	0	0	255	30.32	0.00	30	28	94	10	0	0	322	30.15	0.00	37	25	63	20	6	13
12	167	30.24	0.00	34	26	71	32	0	2	408	30.27	0.00	41	22	46	06	1	4	294	30.06	0.00	43	26	52	22	5	15
15	93	30.22	0.00	35	25	65	30	0	4	111	30.22	0.00	43	23	45	30	0	6	91	29.95	0.00	41	27	58	21	6	15
18	0	30.24	0.00	30	26	86	05	0	0	0	30.23	0.00	31	24	76	09	0	0	0	29.89	0.00	40	30	66	21	4	11
21	0	30.27	0.00	25	23	91	05	0	0	0	30.25	0.00	28	24	83	19	0	0	0	29.78	0.00	42	34	73	21	6	24
00	0	29.66	0.00	43	37	79	22	9	21	0	30.43	0.00	17	10	73	31	1	16	0	30.47	0.00	19	16	87	04	0	0
03	0	29.87	0.00	28	24	87	33	5	15	0	30.50	0.00	15	9	77	30	2	12	0	30.44	0.00	21	18	88	13	0	0
06	0	29.99	0.00	20	14	77	30	8	21	0	30.55	0.00	15	11	83	32	0	0	0	30.43	0.00	24	15	68	19	4	12
09	220	30.11	0.00	17	10	74	29	14	28	172	30.59	0.00	19	14	81	34	0	0	102	30.44	0.00	29	14	54	20	3	7
12	492	30.18	0.00	19	9	65	28	10	21	494	30.58	0.00	24	16	70	33	0	3	443	30.40	0.00	35	14	41	23	4	8
15	77	30.23	0.00	20	9	62	29	6	21	105	30.52	0.00	27	16	61	02	0	0	56	30.40	0.00	35	14	43	25	0	0
18	0	30.32	0.00	19	9	64	29	3	19	0	30.53	0.00	18	14	83	31	0	0	0	30.42	0.00	32	23	70	25	0	0
21	0	30.36	0.00	19	11	71	31	7	18	0	30.50	0.00	20	17	89	31	0	0	0	30.42	0.00	24	16	72	25	0	0
00	0	30.40	0.00	22	15	74	25	0	0	0	30.34	0.00	31	25	78	22	0	0	0	30.29	0.00	30	27	89	22	0	0
03	0	30.38	0.00	22	16	77	25	0	0	0	30.32	0.00	30	24	78	22	0	0	0	30.29	0.00	29	26	92	22	0	0
06	0	30.39	0.00	22	18	84	25	0	0	0	30.33	0.00	30	25	83	22	0	0	0	30.28	0.00	26	24	92	22	0	0
10	144	30.37	0.00	30	24	78	25	0	0	37	30.35	0.00	31	26	82	22	0	0	202	30.27	0.00	30	28	94	22	0	0
12	244	30.38	0.00	34	27	77	27	1	4	88	30.33	0.00	33	26	74	22	0	0	125	30.21	0.00	41	30	64	24	4	10
15	58	30.34	0.00	33	29	82	22	0	0	30	30.31	0.00	34	28	79	22	0	0	67	30.11	0.00	41	29	61	19	3	10
18	0	30.35	0.00	31	28	88	22	0	0	0	30.32	0.00	31	28	88	22	0	0	0	30.08	0.00	32	27	80	15	0	0
21	0	30.34	0.00	31	27	83	22	0	0	0	30.31	0.00	30	28	90	22	0	0	0	29.99	0.00	36	28	73	18	6	13
00	0	29.91	0.00	38	28	68	19	5	14	0	29.74	0.00	31	30	93	30	7	20	0	30.01	0.00	15	13	91	11	0	0
03	0	29.84	0.00	39	31	73	18	5	11	0	29.83	0.00	28	26	93	31	5	19	0	29.97	0.00	17	15	91	19	0	0
06	0	29.76	0.00	39	34	81	18	3	14	0	29.93	0.00	26	24	91	30	8	23	0	29.91	0.00	20	17	88	07	0	0
09	37	29.73	0.00	38	36	92	22	4	9	23	30.02	0.00	25	22	89	30	7	20	149	29.81	0.00	25	18	74	04	0	0
12	26	29.68	0.00	41	37	85	20	0	7	77	30.01	0.00	25	22	86	34	1	14	74	29.67	0.00	32	19	58	20	1	5
15	47	29.63	0.00	45	40	81	21	5	10	81	30.02	0.00	27	20	77	32	1	12	35	29.57	0.00	36	22	55	19	3	8
18	0	29.64	0.00	41	38	88	22	0	0	0	30.07	0.00	21	17	82	03	0	0	0	29.53	0.00	33	26	76	20	0	0
21	0	29.66	0.00	40	35	82	27	10	16	0	30.05	0.00	20	16	85	05	0	0	0	29.42	0.00	34	31	88	19	0	0

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.28	0.29	0.31	0.33	0.36	0.37	0.38	0.38	0.38	0.38	0.38	0.38
Ended: Date	04	04	04	04	04	04	04	04	04	04	04	04
Ended: Time	1030	1030	1030	1030	1030	1041	1054	1054	1054	1054	1054	1054

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 2017: Westford

Hour	Wind			Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Wind			Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Wind										
	Direction	Speed	Gust							Direction	Speed	Gust							Direction	Speed	Gust								
NOV 19										NOV 20										NOV 21									
00	0	29.26	0.05	38	36	94	19	6	13	0	29.62	0.00	26	22	83	26	0	0	0	29.97	0.00	23	20	88	16	0	0		
03	0	29.15	0.00	40	39	94	26	0	9	0	29.67	0.00	26	20	80	29	0	4	0	29.93	0.00	30	27	92	19	4	11		
06	0	29.03	0.05	41	40	95	19	0	0	0	29.76	0.00	21	16	81	32	6	13	0	29.92	0.00	31	27	85	18	5	11		
09	0	29.02	0.00	46	45	96	29	10	18	341	29.86	0.00	21	13	72	30	9	18	213	29.87	0.00	37	28	70	17	6	18		
12	56	29.28	0.00	31	28	89	29	9	19	113	29.85	0.00	23	16	74	31	1	8	239	29.76	0.04	46	28	50	21	10	24		
15	19	29.41	0.00	28	24	86	29	10	23	26	29.88	0.00	22	20	90	32	0	0	84	29.78	0.00	50	27	41	22	6	19		
18	0	29.51	0.00	29	24	84	26	0	16	0	29.96	0.00	20	16	85	29	0	0	0	29.82	0.00	48	26	43	21	3	13		
21	0	29.56	0.00	28	23	82	30	4	18	0	29.99	0.00	21	17	85	05	0	0	0	29.84	0.00	45	27	51	20	1	9		
NOV 22										NOV 23										NOV 24									
00	0	29.84	0.00	45	30	54	20	5	14	0	30.05	0.00	23	17	80	31	4	18	0	29.89	0.00	30	24	77	21	1	9		
03	0	29.84	0.00	45	31	57	20	3	12	0	30.06	0.00	19	13	80	28	3	12	0	29.89	0.00	31	26	82	21	0	11		
06	0	29.84	0.00	44	31	61	21	2	10	0	30.08	0.00	17	12	81	34	0	0	0	29.90	0.00	31	27	83	21	0	0		
09	19	29.91	0.00	36	33	90	33	0	4	139	30.08	0.00	20	15	82	33	0	0	44	29.91	0.00	33	29	84	20	3	8		
12	46	29.92	0.00	32	31	94	34	0	0	142	30.02	0.00	25	17	72	25	0	6	246	29.84	0.00	38	31	75	20	8	16		
15	42	29.92	0.00	34	32	93	33	1	9	79	29.97	0.00	26	19	73	21	2	8	63	29.80	0.00	40	30	67	20	7	18		
18	0	29.97	0.00	31	28	90	31	4	19	0	29.93	0.00	26	20	76	21	0	6	0	29.73	0.00	39	29	67	19	8	16		
21	0	30.01	0.00	27	22	83	29	3	13	0	29.90	0.00	28	21	76	21	2	8	0	29.71	0.00	42	30	61	20	11	27		
NOV 25										NOV 26										NOV 27									
00	0	29.67	0.00	43	27	54	20	4	28	0	29.63	0.00	36	34	93	30	6	19	0	29.77	0.00	25	23	94	20	0	0		
03	0	29.64	0.00	41	26	54	21	8	16	0	29.67	0.00	32	31	95	30	0	0	0	29.74	0.00	27	26	94	21	2	7		
06	0	29.57	0.00	42	26	53	20	10	23	0	29.71	0.00	31	30	95	32	6	12	0	29.82	0.00	29	27	92	31	3	10		
09	204	29.55	0.00	45	27	49	20	9	23	7	29.83	0.00	26	24	92	32	6	21	9	29.92	0.00	26	23	88	33	4	11		
12	42	29.52	0.00	48	29	48	20	4	12	25	29.86	0.00	26	22	86	30	1	10	40	30.00	0.00	23	18	81	31	0	14		
15	11	29.55	0.00	44	35	73	21	5	10	14	29.86	0.00	26	21	81	26	0	0	28	30.10	0.00	21	14	77	29	9	16		
18	0	29.58	0.00	43	36	75	21	0	0	0	29.85	0.00	25	20	82	31	0	4	0	30.22	0.00	17	11	77	33	4	13		
21	0	29.60	0.00	43	39	86	25	6	11	0	29.81	0.00	25	23	91	26	0	0	0	30.27	0.00	15	10	80	02	0	0		
NOV 28										NOV 29										NOV 30									
00	0	30.30	0.00	14	10	84	04	0	0	0	29.92	0.00	41	36	80	21	9	25	0	30.31	0.00	21	18	88	34	0	0		
03	0	30.35	0.00	9	6	90	09	0	0	0	29.85	0.00	44	36	75	19	6	22	0	30.27	0.00	20	18	91	06	0	0		
06	0	30.33	0.00	15	11	81	24	0	0	0	29.86	0.00	43	36	76	21	5	10	0	30.24	0.00	16	14	92	06	0	0		
09	83	30.30	0.00	20	13	74	19	1	8	104	29.89	0.00	44	38	78	21	3	8	25	30.16	0.00	27	17	68	19	1	9		
12	318	30.17	0.00	32	16	51	20	7	18	125	29.98	0.05	36	35	94	29	0	0	308	30.07	0.00	37	20	50	20	4	24		
15	95	30.06	0.05	40	28	61	20	14	31	33	30.12	0.00	36	28	74	30	7	19	77	29.93	0.00	40	17	39	21	11	27		
18	0	30.04	0.00	40	28	63	20	9	26	0	30.25	0.00	29	23	77	34	2	12	0	29.89	0.00	39	23	53	19	5	19		
21	0	29.97	0.00	40	31	68	21	8	28	0	30.32	0.00	26	20	78	33	0	0	0	29.90	0.04	37	33	86	20	9	24		

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 0.01" 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	30.021	32	27	82	2.6	23	1.9
03	0	30.020	32	27	83	2.2	22	1.5
06	0	30.022	31	26	83	2.7	24	1.7
09	108	30.040	33	28	81	3.8	25	2.6
12	185	30.026	36	28	72	3.2	23	2.3
15	65	30.012	37	28	70	4.0	24	2.8
18	0	30.035	34	27	77	1.9	23	1.2
21	0	30.032	33	28	81	2.9	23	2.1

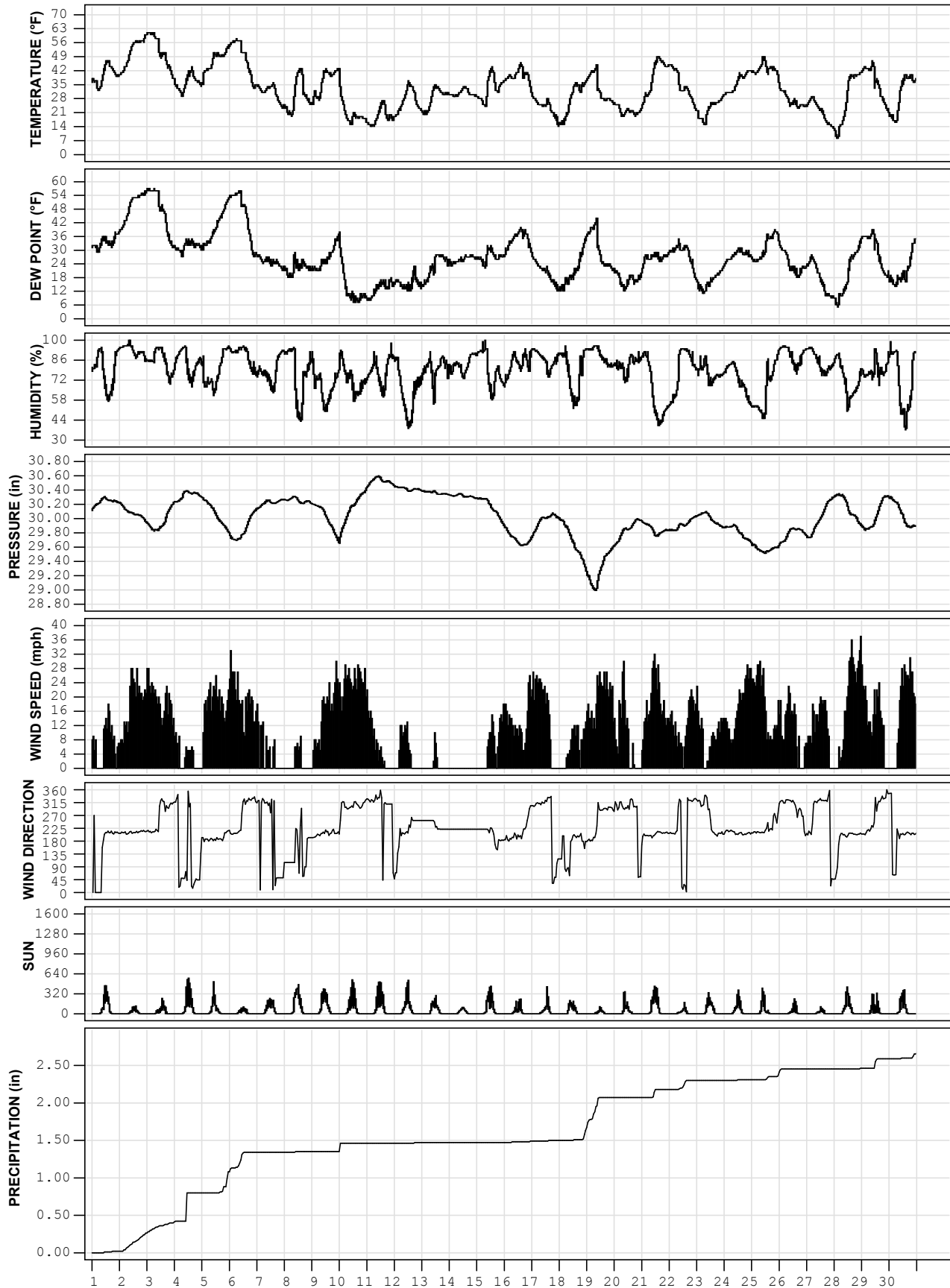
HOURLY PRECIPITATION (Water Equivalent) November 2017: Westford

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																									01
02				0.02		0.02	0.01	0.01	0.02	0.01	0.01	0.02		0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.02		0.02		02
03	0.02		0.02		0.02		0.01	0.01		0.01	0.01				0.01	0.01			0.01	0.01				0.01	03
04	0.01										0.38														04
05															0.01		0.01	0.06			0.11	0.09			05
06	0.04	0.01				0.01		0.02	0.04	0.04	0.07	0.02	0.01												06
07																									07
08									0.01																08
09																									09
10	0.11																								10
11																									11
12																	0.01								12
13																									13
14																									14
15																									15
16							0.01																0.01		16
17															0.01										17
18													0.01			0.01					0.01	0.06	0.05	0.04	18
19	0.07	0.03	0.01		0.01	0.06	0.03	0.07	0.01	0.10	0.01														19
20																									20
21										0.01	0.06	0.04													21
22									0.01	0.01		0.01	0.03	0.04	0.02										22
23																									23
24												0.01													24
25													0.01	0.02	0.01							0.01	0.05		25
26	0.03	0.01																							26
27																									27
28																							0.01		28
29												0.09	0.03	0.01											29
30											0.01										0.02	0.03		0.01	30
Sum	0.28	0.05	0.03	0.02	0.03	0.09	0.06	0.11	0.08	0.19	0.56	0.19	0.09	0.08	0.06	0.03	0.01	0.05	0.08	0.02	0.05	0.20	0.19	0.11	Sum

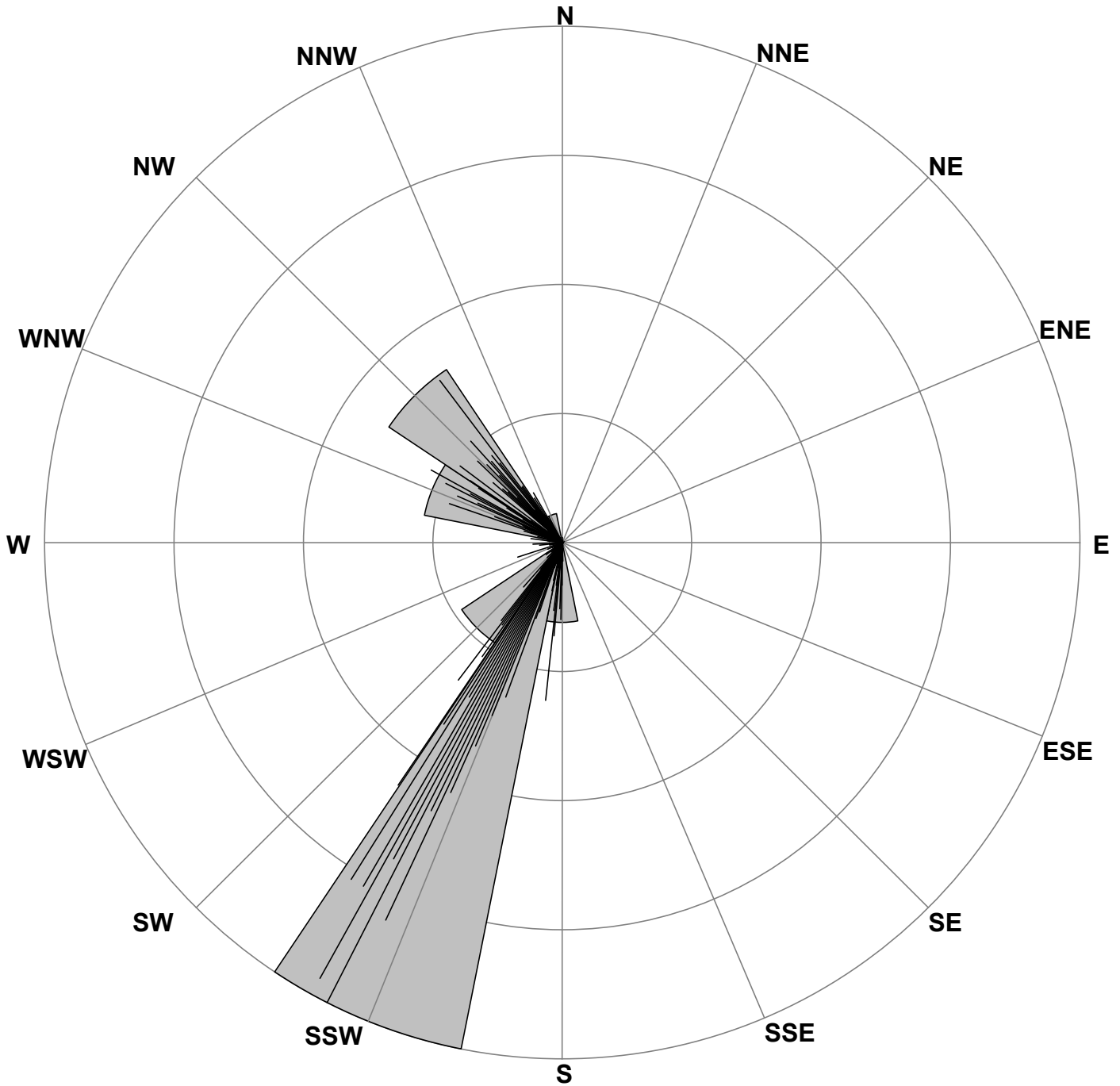
During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA

November 2017: Westford



**Wind Rose: November 2017
Westford**



**Maximum direction of wind: 112.8 miles from 207°
Maximum sector of wind: 970.8 miles from SSW
2103.7 total miles of wind**