

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

December 2018

Station: Westford
 Latitude: 44° 37' 38" N Longitude: 73° 02' 29" W Elevation (Ground): 850 feet Time Zone: Eastern

Date	Temperature					Humidity Mean	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		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	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	32.3	27.4	29.8	29.2	27	92	35	0	.....	10	0.00	0.0	30.20	30.05	30.146	0.0	0.0	0	ENE	0	68	1	
2	41.0	28.3	34.6	35.7	34	93	30	0	.....	6	0.28	0.0	30.05	29.47	29.719	2.3	2.3	198	21	S	10	198	18
3	42.2	26.9	34.6	35.4	34	95	30	0	.....	3	0.39	0.6	29.73	29.39	29.516	2.4	1.9	235	21	WNW	12	299	19
4	28.1	13.8	21.0	20.2	17	86	44	0	.....	4	0.08	1.5	30.07	29.73	29.936	2.0	2.0	325	21	NW	10	313	17
5	25.7	10.7	18.2	20.7	18	89	46	0	.....	4	0.03	0.9	30.07	30.01	30.037	0.1	0.1	209	6	SSW	2	194	25
6	30.2	19.0	24.6	26.0	23	90	40	0	.....	5	0.06	0.5	30.02	29.94	29.973	2.5	2.5	211	18	SSW	10	218	18
7	28.3	1.5	14.9	16.8	13	84	50	0	.....	6	0.14	1.1	30.42	29.95	30.242	1.0	0.9	300	15	W	8	313	8
8	16.8	-4.0	6.4*	7.3	3	82	58	0	.....	6	T	T	30.48	30.40	30.433	0.0	0.0	260	5	SW	2	288	25
9	30.5	7.7	19.1	22.3	17	82	45	0	.....	5	T	T	30.44	30.08	30.231	2.1	1.9	228	20	SSW	10	254	34
10	27.4	3.5	15.4	16.0	11	79	49	0	.....	5	T	T	30.20	30.07	30.150	0.2	0.2	346	14	NW	5	8	59
11	28.1	1.8	15.0	16.4	12	82	50	0	.....	5	T	T	30.18	29.92	30.049	0.5	0.5	206	12	S	6	214	54
12	23.0	-3.0	10.0	11.8	8	85	55	0	.....	6	0.04	0.5	30.33	29.92	30.133	0.3	0.3	321	12	N	5	321	50
13	28.0	-4.6*	11.7	14.0	7	75	53	0	.....	5	0.00	0.0	30.48	30.33	30.423	1.9	1.8	201	19	SW	14	183	55
14	38.8	26.3	32.5	34.2	31	88	32	0	.....	2	0.11	0.0	30.44	30.07	30.276	6.1	6.1	204	27	SSW	14	215	25
15	39.5	28.0	33.8	35.0	32	87	31	0	.....	2	0.00	0.0	30.26	30.05	30.179	1.3	0.9	236	18	SSW	9	214	35
16	38.2	22.5	30.4	30.3	27	86	34	0	.....	2	0.00	0.0	30.23	29.82	30.058	0.1	0.1	203	11	SSE	6	207	43
17	34.1	17.1	25.6	30.0	26	86	39	0	.....	2	0.02	0.7	29.82	29.54	29.652	3.4	2.8	310	29	NW	16	292	15
18	19.0	11.2	15.1	16.6	11	80	50	0	.....	2	0.01	0.5	30.10	29.73	29.980	6.2	6.2	323	33	WNW	17	306	32
19	30.5	7.9	19.2	19.8	13	75	45	0	.....	2	0.00	0.0	30.11	30.01	30.051	0.6	0.6	208	12	SW	6	207	52
20	44.2	26.4	35.3	34.7	23	63	30	0	.....	1	0.07	0.0	30.05	29.83	29.975	2.4	2.4	203	16	SSE	8	198	52
21	54.8*	34.0	44.4*	46.1	44	94	20	0	.2.....	T	0.78	0.0	29.84	29.08	29.410	2.2	2.2	184	25	SSE	13	183	21	
22	54.8	20.3	37.5	33.8	31	90	27	0	.....	1	0.75	0.5	29.87	29.03	29.390	4.5	4.1	288	27	W	15	288	13
23	26.2	13.6	19.9	18.2	14	83	45	0	.....	1	0.01	0.3	30.12	29.87	30.053	0.6	0.6	323	15	WNW	8	311	62
24	25.7	16.3	21.0	20.5	18	90	44	0	.....	2	0.08	1.9	30.07	29.94	30.010	0.0	0.0	0	0	W	0	275	26
25	19.8	2.8	11.3	10.4	7	86	53	0	.....	2	T	T	30.33	30.07	30.247	0.0	0.0	0	0	W	0	275	55
26	24.9	3.7	14.3	17.2	13	84	50	0	.....	2	0.02	0.7	30.49	30.33	30.377	0.6	0.4	234	18	NW	7	323	40
27	23.7	7.7	15.7	14.5	10	82	49	0	.....	2	T	0.1	30.69	30.32	30.571	0.1	0.1	333	18	WNW	6	322	49
28	44.9	23.7	34.3	36.5	34	89	30	0	.....	0	0.70	0.0	30.33	29.64	29.923	4.2	4.1	201	28	S	14	197	10
29	45.6	11.3	28.4	28.6	25	87	36	0	.....	T	0.11	0.1	30.20	29.59	29.919	3.7	2.8	293	29	WSW	15	255	11
30	26.7	8.8	17.8	18.7	14	83	47	0	.....	0	T	T	30.20	30.13	30.174	0.5	0.5	206	13	S	6	213	39
31	36.5	26.7	31.6	32.2	28	83	33	0	.....	0	0.19	T	30.27	29.69	30.119	2.8	2.8	200	19	SSW	11	199	44
Sum	Sum	-----	-----	---	----	Ttl	Ttl						Total	Total	For the month:						---			
1010	437					1280	0		Number of Days				3.68	9.9	30.69	29.03	30.044	1.8	1.0	245	33	WNW	17	306
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip				Season Ttl	Date	Date	-----	----	---	Date	Date	Avg			
32.6	14.1	23.3	24.2	20	84.9	----	----		≥.01 inch	19			43.02	37.4	27	22	-----	----	---			18	18	32
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			3133	209	Thunder	0	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	1	0.00	-	1.9	24	10		1										
0	19	30	3	----	----	Clear	3	Partly Cloudy			10	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 W/m² 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

December 2018: 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																																												
DEC 01																						DEC 02																						DEC 03																					
00	0	30.08	0.00	28	27	95	04	0	0	0	30.05	0.00	29	27	94	05	0	0	0	29.49	0.00	41	40	96	21	3	13	0	30.05	0.00	29	27	94	05	0	0	0	29.49	0.00	41	40	96	21	3	13	0	29.49	0.00	41	40	96	21	3	13											
03	0	30.12	0.00	28	26	93	04	0	0	0	30.00	0.00	30	29	95	05	0	0	0	29.43	0.00	40	40	97	20	5	14	0	30.00	0.00	30	29	95	05	0	0	0	29.43	0.00	40	40	97	20	5	14	0	29.43	0.00	40	40	97	20	5	14											
06	0	30.16	0.00	28	26	93	04	0	0	0	29.92	0.00	33	31	93	17	0	2	0	29.40	0.00	39	38	97	21	2	7	0	29.92	0.00	33	31	93	17	0	2	0	29.40	0.00	39	38	97	21	2	7	0	29.40	0.00	39	38	97	21	2	7											
09	0	30.19	0.00	29	28	95	04	0	0	0	29.82	0.00	35	33	91	21	0	6	19	29.44	0.00	40	39	97	29	1	11	0	29.82	0.00	35	33	91	21	0	6	19	29.44	0.00	40	39	97	29	1	11	19	29.44	0.00	40	39	97	29	1	11											
12	5	30.16	0.00	31	29	90	04	0	0	169	29.66	0.00	40	35	84	17	6	14	39	29.43	0.00	40	37	88	23	2	10	169	29.66	0.00	40	35	84	17	6	14	39	29.43	0.00	40	37	88	23	2	10	39	29.43	0.00	40	37	88	23	2	10											
15	0	30.18	0.00	32	29	88	05	0	0	23	29.56	0.00	36	35	94	22	2	10	23	29.50	0.00	33	31	93	30	1	14	23	29.56	0.00	36	35	94	22	2	10	23	29.50	0.00	33	31	93	30	1	14	23	29.50	0.00	33	31	93	30	1	14											
18	0	30.16	0.00	30	28	92	05	0	0	0	29.53	0.00	38	37	96	19	4	10	0	29.63	0.00	28	27	94	34	0	0	0	29.53	0.00	38	37	96	19	4	10	0	29.63	0.00	28	27	94	34	0	0	0	29.63	0.00	28	27	94	34	0	0											
21	0	30.13	0.00	29	27	93	05	0	0	0	29.52	0.00	39	38	96	20	5	10	0	29.68	0.00	27	26	94	34	0	12	0	29.52	0.00	39	38	96	20	5	10	0	29.68	0.00	27	26	94	34	0	12	0	29.68	0.00	27	26	94	34	0	12											
DEC 04																						DEC 05																						DEC 06																					
00	0	29.73	0.00	28	26	92	33	0	7	0	30.06	0.00	17	15	92	32	0	0	0	30.01	0.00	23	22	93	19	0	5	0	30.06	0.00	17	15	92	32	0	0	0	30.01	0.00	23	22	93	19	0	5	0	30.01	0.00	23	22	93	19	0	5											
03	0	29.79	0.00	25	23	92	32	5	13	0	30.05	0.00	17	15	92	25	0	0	0	30.01	0.00	23	22	94	20	1	5	0	30.05	0.00	17	15	92	25	0	0	0	30.01	0.00	23	22	94	20	1	5	0	30.01	0.00	23	22	94	20	1	5											
06	0	29.86	0.00	22	19	89	32	5	13	0	30.03	0.00	12	10	92	25	0	0	0	30.00	0.00	24	22	93	20	0	8	0	30.03	0.00	12	10	92	25	0	0	0	30.00	0.00	24	22	93	20	0	8	0	30.00	0.00	24	22	93	20	0	8											
09	19	29.94	0.00	20	15	79	32	0	10	44	30.07	0.00	20	17	89	22	0	0	25	30.00	0.00	25	22	88	22	4	10	44	30.07	0.00	20	17	89	22	0	0	25	30.00	0.00	25	22	88	22	4	10	25	30.00	0.00	25	22	88	22	4	10											
12	70	29.97	0.00	21	16	81	32	8	13	116	30.04	0.00	25	19	80	21	0	2	65	29.96	0.00	27	23	86	21	4	11	116	30.04	0.00	25	19	80	21	0	2	65	29.96	0.00	27	23	86	21	4	11	65	29.96	0.00	27	23	86	21	4	11											
15	47	29.99	0.00	21	14	75	30	1	10	25	30.02	0.00	25	20	82	23	0	0	47	29.95	0.00	28	24	87	19	0	7	25	30.02	0.00	25	20	82	23	0	0	47	29.95	0.00	28	24	87	19	0	7	47	29.95	0.00	28	24	87	19	0	7											
18	0	30.01	0.00	16	12	85	32	0	0	0	30.03	0.00	23	21	90	23	0	0	0	29.94	0.00	28	25	89	20	2	8	0	30.03	0.00	23	21	90	23	0	0	0	29.94	0.00	28	25	89	20	2	8	0	29.94	0.00	28	25	89	20	2	8											
21	0	30.04	0.00	14	12	91	32	0	0	0	30.02	0.00	23	21	93	21	0	0	0	29.94	0.00	30	26	85	21	6	14	0	30.02	0.00	23	21	93	21	0	0	0	29.94	0.00	30	26	85	21	6	14	0	29.94	0.00	30	26	85	21	6	14											
DEC 07																						DEC 08																						DEC 09																					
00	0	29.95	0.00	28	27	94	19	0	5	0	30.42	0.00	2	-1	88	05	0	0	0	30.44	0.00	17	13	87	25	0	0	0	30.42	0.00	2	-1	88	05	0	0	0	30.44	0.00	17	13	87	25	0	0	0	30.44	0.00	17	13	87	25	0	0											
03	0	30.02	0.00	27	25	94	30	1	12	0	30.42	0.00	-2	-4	88	05	0	0	0	30.42	0.00	10	8	91	25	0	0	0	30.42	0.00	-2	-4	88	05	0	0	0	30.42	0.00	10	8	91	25	0	0	0	30.42	0.00	10	8	91	25	0	0											
06	0	30.14	0.00	21	18	87	29	6	10	0	30.42	0.00	-3	-6	88	05	0	0	0	30.35	0.00	16	14	91	21	0	0	0	30.42	0.00	-3	-6	88	05	0	0	0	30.35	0.00	16	14	91	21	0	0	0	30.35	0.00	16	14	91	21	0	0											
09	14	30.24	0.00	18	14	83	32	2	11	7	30.47	0.00	2	-1	89	05	0	0	21	30.31	0.00	20	16	83	21	2	7	7	30.47	0.00	2	-1	89	05	0	0	21	30.31	0.00	20	16	83	21	2	7	21	30.31	0.00	20	16	83	21	2	7											
12	26	30.28	0.00	18	13	80	34	0	0	211	30.44	0.00	12	6	75	05	0	0	88	30.18	0.00	26	20	80	20	6	14	211	30.44	0.00	12	6	75	05	0	0	88	30.18	0.00	26	20	80	20	6	14	88	30.18	0.00	26	20	80	20	6	14											
15	7	30.32	0.00	16	10	75	35	0	0	44	30.42	0.00	16	7	67	24	0	0	113	30.12	0.00	30	22	72	22	0	9	44	30.42	0.00	16	7	67	24	0	0	113	30.12	0.00	30	22	72	22	0	9	113	30.12	0.00	30	22	72	22	0	9											
18	0	30.37	0.00	11	7	83	35	0	0	0	30.42	0.00	7	4	86	24	0	0	0	30.12	0.00	29	21	72	27	5	18	0	30.42	0.00	7	4	86	24	0	0	0	30.12	0.00	29	21	72	27	5	18	0	30.12	0.00	29	21	72	27	5	18											
21	0	30.40	0.00	8	4	85	34	0	0	0	30.45	0.00	15	11	82	21	0	2	0	30.09	0.00	29	23	78	25	1	9	0	30.45	0.00	15	11	82	21	0	2	0	30.09	0.00	29	23	78	25	1	9	0	30.09	0.00	29	23	78	25	1	9											
DEC 10																						DEC 11																						DEC 12																					
00	0	30.09	0.00	25	21	84	22	0	3	0	30.16	0.00	4	1	89	02	0	0	0	29.92	0.00	22	20	91	21	0	0	0	30.16	0.00	4	1	89	02	0	0	0	29.92	0.00	22	20	91	21	0	0	0	29.92	0.00	22	20	91	21	0	0											
03	0	30.09	0.00	24	19	79	31	0	0	0	30.18	0.00	2	-1	88	02	0	0	0	29.95	0.00	19	17	91	30	1	6	0	30.18	0.00	2	-1	88	02	0	0	0	29.95	0.00	19	17	91	30	1	6	0	29.95	0.00	19	17	91	30	1	6											
06	0	30.11	0.00	18	13	80	02	0	0	0	30.15	0.00	5	2	89	02	0	0	0	30.02	0.00	16	13	91	36	0	0	0	30.15	0.00	5	2	89	02	0	0	0	30.02	0.00	16	13	91	36	0	0	0	30.02	0.00	16	13	91	36	0	0											
09	44	30.17	0.00	15	10	80	01	0	0	98	30.12	0.00	16	12	86	22	2	7	21	30.11	0.00	14	12	89	01	0	4	98	30.12	0.00	16	12	86	22	2	7	21	30.11	0.00	14	12	89	01	0	4	21	30.11	0.00	14	12	89	01	0	4											
12	413	30.16	0.00	19	10	68	30	0	0	199	30.03	0.00	22	15	76	20	1	10	490	30.13	0.00	18	11	76	04	0	0	199																																					

OBSERVATIONS AT 3-HOUR INTERVALS

December 2018: Westford

Hour	DEC 19									DEC 20									DEC 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	30.09	0.00	12	9	87	26	0	0	0	30.01	0.00	30	20	65	21	1	5	0	29.83	0.00	35	33	92	19	5	9
03	0	30.10	0.00	12	9	87	27	0	0	0	30.02	0.00	31	20	63	20	7	13	0	29.72	0.00	35	34	95	10	0	0
06	0	30.08	0.00	8	6	89	27	0	0	0	30.01	0.00	30	19	63	20	2	7	0	29.59	0.00	42	40	93	18	4	12
09	32	30.09	0.00	15	10	82	21	1	6	44	30.04	0.00	30	20	66	20	2	10	44	29.46	0.00	47	45	92	19	4	16
12	346	30.04	0.00	25	14	64	16	0	3	322	30.00	0.00	40	23	51	18	2	10	97	29.38	0.00	49	47	93	19	3	9
15	53	30.01	0.00	28	16	60	19	0	5	60	29.91	0.00	39	26	60	12	0	0	12	29.31	0.00	50	48	95	15	0	6
18	0	30.01	0.00	25	15	66	21	0	2	0	29.96	0.00	39	24	53	20	1	7	0	29.25	0.00	48	47	96	16	0	4
21	0	30.03	0.00	25	17	70	21	0	2	0	29.90	0.00	37	31	78	19	6	12	0	29.16	0.00	53	52	97	20	3	12
DEC 22									DEC 23									DEC 24									
00	0	29.09	0.00	55	51	87	16	5	12	0	29.87	0.00	20	16	84	31	5	12	0	30.06	0.00	19	17	91	10	0	0
03	0	29.06	0.00	50	48	94	17	0	0	0	29.98	0.00	17	14	85	33	1	7	0	30.05	0.00	19	16	89	10	0	0
06	0	29.09	0.00	46	45	95	28	4	15	0	30.04	0.00	15	11	85	33	0	0	0	30.01	0.00	19	17	91	10	0	0
09	14	29.25	0.00	33	31	93	28	11	18	25	30.11	0.00	14	11	85	02	0	0	97	30.02	0.00	22	19	90	10	0	0
12	76	29.38	0.00	28	26	93	28	12	21	432	30.09	0.00	24	16	73	15	0	0	125	29.96	0.00	25	22	85	13	0	0
15	12	29.50	0.00	26	23	88	28	6	11	47	30.08	0.00	25	17	72	26	0	0	26	29.96	0.00	23	21	90	31	0	0
18	0	29.64	0.00	25	21	85	29	7	13	0	30.08	0.00	16	13	88	10	0	0	0	30.00	0.00	20	18	92	36	0	0
21	0	29.77	0.00	24	19	82	29	9	16	0	30.09	0.00	15	13	92	10	0	0	0	30.04	0.00	18	16	91	04	0	0
DEC 25									DEC 26									DEC 27									
00	0	30.07	0.00	16	14	90	01	0	0	0	30.33	0.00	4	1	89	09	0	0	0	30.49	0.00	19	17	90	33	1	8
03	0	30.15	0.00	12	9	88	01	0	0	0	30.35	0.00	10	7	90	09	0	0	0	30.56	0.00	15	12	88	03	0	0
06	0	30.20	0.00	6	4	89	03	0	0	0	30.38	0.00	12	10	90	19	0	0	0	30.62	0.00	9	6	88	01	0	0
09	18	30.27	0.00	8	5	90	06	0	0	51	30.42	0.00	15	12	86	19	1	6	25	30.69	0.00	9	6	88	01	0	0
12	297	30.26	0.00	14	9	81	09	0	0	216	30.37	0.00	23	15	71	21	0	0	364	30.64	0.00	15	9	75	04	0	0
15	46	30.27	0.00	18	11	73	09	0	0	58	30.36	0.00	24	16	71	22	0	0	54	30.61	0.00	18	10	71	32	0	0
18	0	30.30	0.00	9	6	88	09	0	0	0	30.35	0.00	23	18	82	22	0	0	0	30.58	0.00	15	11	84	32	0	0
21	0	30.32	0.00	5	3	90	09	0	0	0	30.40	0.00	22	19	91	01	0	0	0	30.48	0.00	15	11	84	08	0	0
DEC 28									DEC 29									DEC 30									
00	0	30.32	0.00	24	13	64	21	0	0	0	29.64	0.00	45	44	97	20	5	12	0	30.19	0.00	11	8	87	02	0	0
03	0	30.22	0.00	28	22	77	19	1	9	0	29.60	0.00	45	44	97	20	6	14	0	30.19	0.00	10	7	90	02	0	0
06	0	30.08	0.00	29	27	92	18	4	12	0	29.71	0.00	42	36	80	26	8	23	0	30.20	0.00	12	9	89	02	0	0
09	21	30.02	0.00	36	34	93	19	6	18	28	29.85	0.00	35	32	89	31	3	14	74	30.19	0.00	15	12	87	22	0	0
12	40	29.88	0.00	38	36	95	19	5	16	39	29.92	0.00	26	23	88	33	7	19	192	30.15	0.00	21	16	80	22	1	5
15	11	29.79	0.00	41	39	94	20	4	15	12	30.03	0.00	20	17	86	34	1	11	42	30.14	0.00	24	17	75	16	0	0
18	0	29.72	0.00	41	40	96	19	5	11	0	30.13	0.00	18	14	85	30	1	8	0	30.17	0.00	24	18	78	19	0	0
21	0	29.68	0.00	43	42	96	22	2	7	0	30.18	0.00	15	11	83	35	0	10	0	30.17	0.00	26	20	80	19	4	11
DEC 31																											
00	0	30.20	0.00	27	23	87	21	1	7																		
03	0	30.23	0.00	28	24	87	19	1	8																		
06	0	30.23	0.00	28	24	87	19	1	8																		
09	91	30.26	0.00	31	26	84	19	1	9																		
12	211	30.19	0.00	35	29	77	21	7	18																		
15	74	30.11	0.00	36	29	76	19	3	9																		
18	0	30.07	0.00	36	30	79	20	4	15																		
21	0	29.89	0.00	34	31	89	18	3	11																		

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

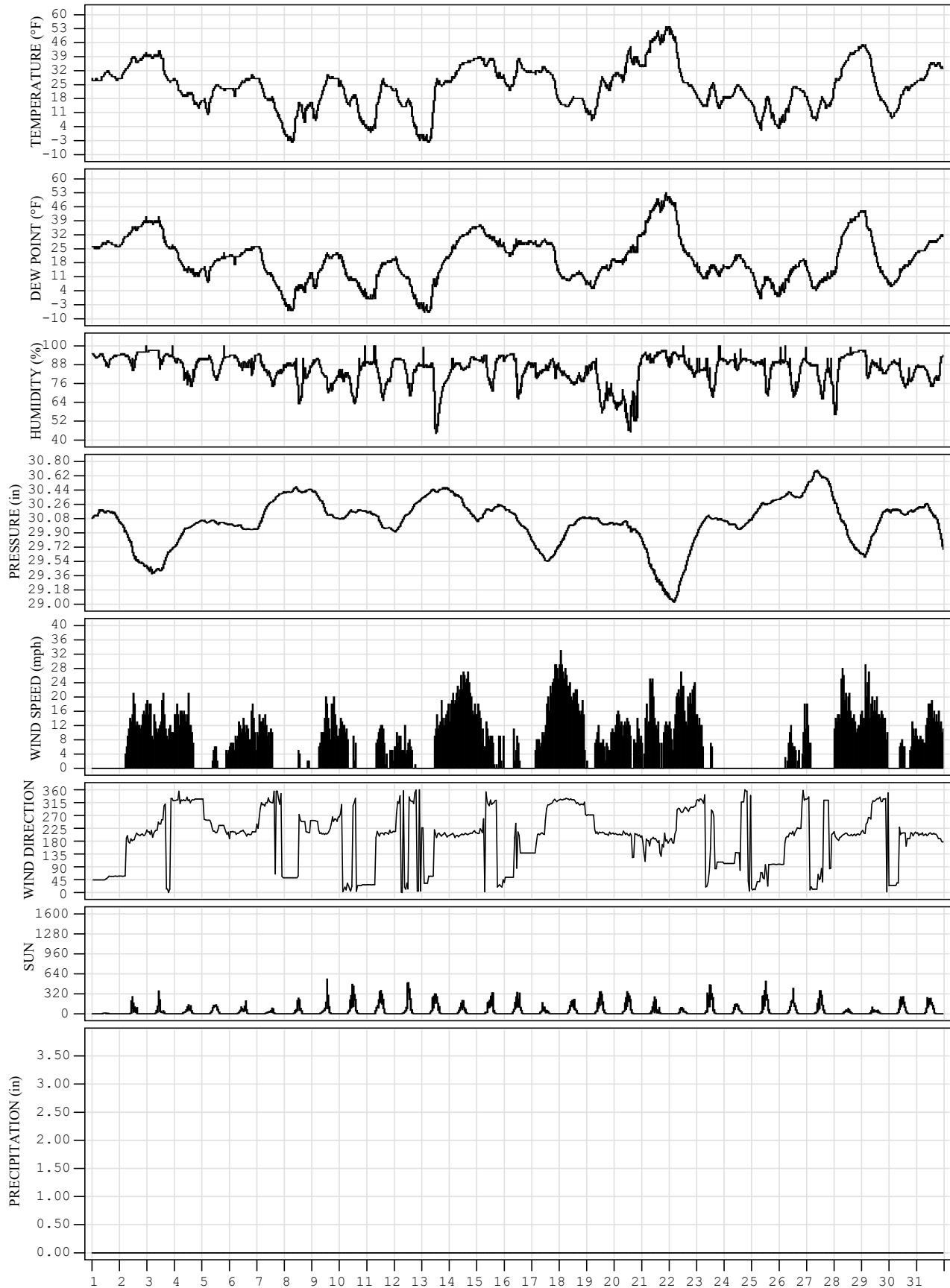
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
00	0	30.040	23	20	88	1.7	23	0.9
03	0	30.042	22	19	89	1.5	23	0.9
06	0	30.047	21	18	88	1.8	27	1.1
09	37	30.074	23	20	87	1.9	25	1.2
12	183	30.038	27	21	78	2.7	25	1.5
15	42	30.029	28	21	78	1.3	25	0.9
18	0	30.046	25	20	84	1.4	25	0.9
21	0	30.043	24	20	87	2.0	24	1.4

HOURLY PRECIPITATION (Water Equivalent) December 2018: Westford

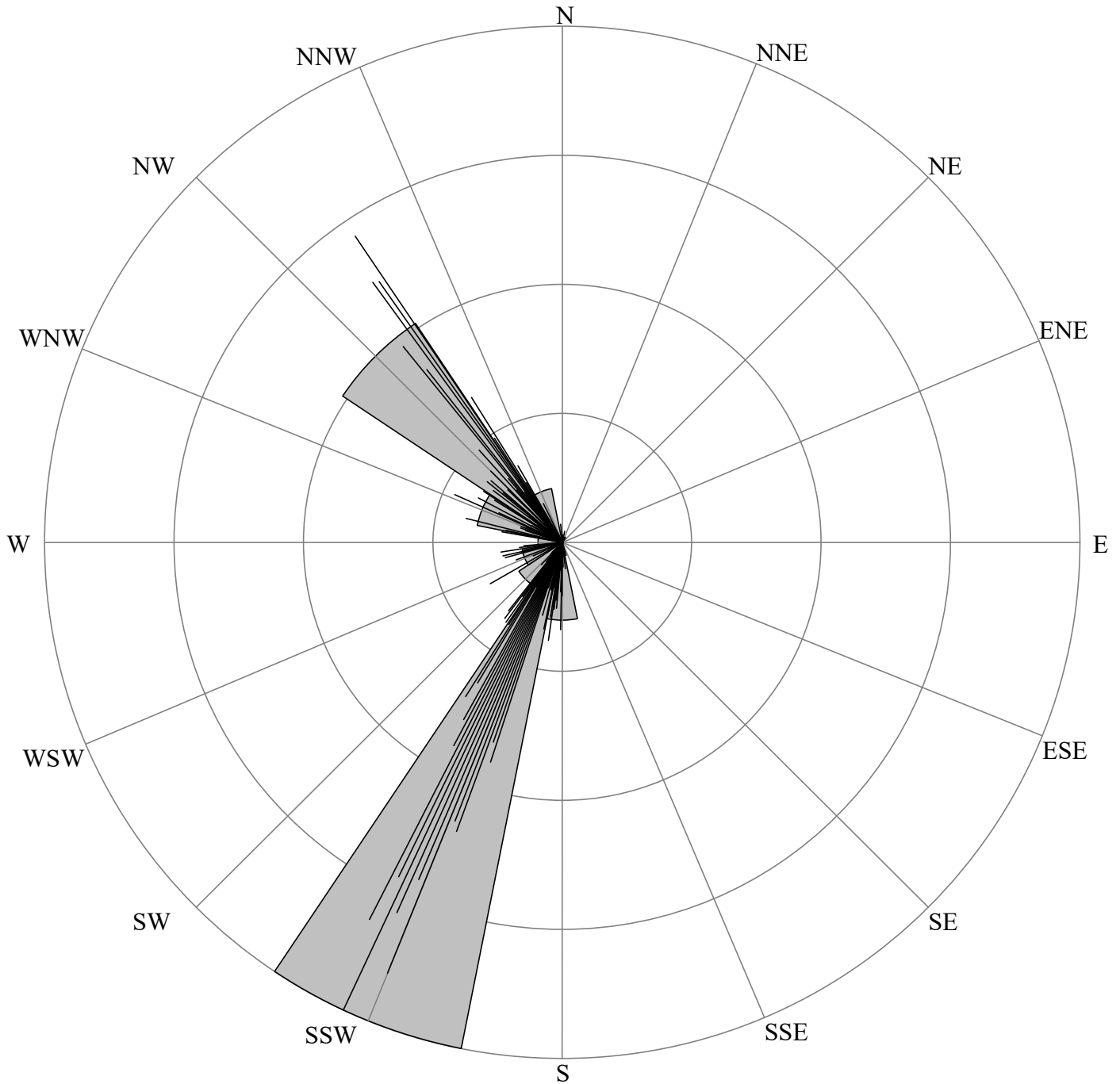
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01																								01	
02																									02
03																									03
04																									04
05																									05
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29																									29
30																									30
31																									31
Sum	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	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 December 2018: Westford



Wind Rose: December 2018
Westford



Maximum direction of wind: 64.3 miles from 205°
Maximum sector of wind: 602.9 miles from SSW
1315.3 total miles of wind