

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

February 2020

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		11	12	13	14	15	16	17	18	19	20	21	22	23		
1	29.0	22.5	25.8	25.9	21	83	39	0	.....	6	T	T	30.10	29.67	29.902	0.3	0.2	356	8	N	4	170	23
2	32.4	21.6	27.0	26.2	22	83	38	0	.....	6	T	T	29.67	29.42	29.517	0.8	0.8	190	11	S	6	180	66
3	35.9	22.4	29.2	30.7	27	84	36	0	.....	6	T	T	29.88	29.48	29.702	2.6	2.3	206	21	NW	13	266	31
4	34.2	21.4	27.8	28.9	25	84	37	0	.....	6	0.00	0.0	29.86	29.70	29.785	0.7	0.3	249	12	WSW	7	272	17
5	30.5	7.9	19.2	20.0	13	74	45	0	.....	6	T	T	30.13	29.84	30.029	1.8	1.7	303	17	W	10	283	99
6	28.0	11.5	19.8	20.7	18	89	45	0	.....	8	0.31	2.7	30.00	29.42	29.705	0.3	0.1	9	11	W	6	272	8
7	26.6	10.8	18.7	20.7	19	93	46	0	.....6...	21	1.40	15.0	29.61	28.90	29.219	1.0	1.0	284	18	WSW	9	284	3
8	10.8	-8.9	1.0	3.9	-0	83	64	0	.....	20	T	T	30.42	29.61	30.080	1.7	1.6	266	16	W	9	263	59
9	26.4	-12.0*	7.2	9.9	6	85	58	0	.....	18	0.00	0.0	30.57	30.25	30.462	1.8	1.8	179	16	SSE	8	176	95
10	34.0	22.2	28.1	30.7	29	94	37	0	.....	18	0.21	0.6	30.25	29.92	30.035	3.8	3.6	176	25	SSE	13	175	9
11	33.3	19.2	26.3	28.5	27	93	39	0	.....	17	T	T	30.10	29.78	29.906	1.0	0.7	224	11	SSW	7	224	21
12	36.3	27.7	32.0	30.6	22	70	33	0	.....	16	0.00	0.0	30.08	29.81	29.965	5.9	4.7	219	25	S	13	175	96
13	32.7	5.9	19.3	25.5	22	87	45	0	.....6...	16	0.16	0.7	29.93	29.57	29.714	2.4	0.9	203	19	S	11	280	28
14	5.9	-11.9	-3.0*	-2.4	-9	74	68	0	.....	16	T	T	30.60	29.93	30.354	1.1	1.0	329	12	NNW	8	287	104
15	21.8	-11.5	5.1	8.5	-3	62	60	0	.....	15	0.00	0.0	30.61	30.07	30.412	7.3	7.3	174	33	SSE	17	171	122
16	34.3	21.7	28.0	27.2	19	71	37	0	.....	15	0.00	0.0	30.08	29.95	30.007	6.6	6.5	177	35	SSE	18	172	52
17	30.5	3.4	17.0	19.1	9	67	48	0	.....	14	T	T	30.43	29.99	30.259	2.0	1.6	287	18	W	11	284	121
18	36.3	3.7	20.0	23.0	18	80	45	0	.....	14	0.06	T	30.44	29.86	30.127	4.9	4.5	170	27	SSE	14	169	27
19	36.2	8.8	22.5	24.6	11	56	42	0	.....	13	T	T	30.34	29.90	30.123	6.4	6.0	259	33	SW	19	247	114
20	15.4	-2.8	6.3	7.1	-1	69	59	0	.....	13	0.00	0.0	30.48	30.34	30.412	0.9	0.9	315	14	W	8	270	117
21	25.9	-5.2	10.3	12.4	1	62	54	0	.....	13	0.00	0.0	30.47	30.10	30.341	4.9	4.9	174	24	SSE	14	166	125
22	37.5	16.4	26.9	26.5	16	64	38	0	.....	0	0.00	0.0	30.14	30.04	30.087	4.7	4.4	200	21	SSW	12	180	133
23	45.2	20.7	33.0	33.8	23	66	32	0	.....	10	0.00	0.0	30.10	29.95	30.026	3.6	3.6	175	18	SSE	10	180	130
24	51.3*	31.3	41.3*	40.2	24	53	24	0	.....	8	0.00	0.0	29.95	29.84	29.891	4.2	4.2	174	23	SSE	13	179	138
25	43.8	32.9	38.4	36.2	31	80	26	0	.....	7	0.02	0.0	29.96	29.86	29.906	0.2	0.1	312	10	W	7	269	56
26	40.4	27.5	34.0	30.9	27	84	31	0	.....	7	0.01	T	30.03	29.73	29.933	0.4	0.1	242	15	ESE	10	146	39
27	40.7	22.3	31.5	31.4	27	85	33	0	.....	9	0.50	1.8	29.73	29.12	29.351	5.0	4.3	220	34	WSW	16	244	10
28	26.4	17.2	21.8	21.8	16	80	43	0	.....	9	0.08	0.2	29.69	29.43	29.565	6.0	5.8	215	27	SW	15	225	36
29	17.7	10.2	14.0	14.0	9	80	51	0	.....	10	0.06	1.4	29.99	29.68	29.807	1.4	1.2	264	15	W	10	264	82
Sum	Sum	-----	-----	---	----	Ttl	Ttl						Total	Total	For the month:						---			
899	357					1253	0		Number of Days				2.81	22.4	30.61	28.90	29.952	2.9	2.0	205	35	SSE	19	247
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip				Season Ttl	Date	Date	-----	----	---		Date	Date	Avg		
31.0	12.3	21.7	22.6	16	77.0	----	----		≥.01 inch	10			7.31	76.3	15	7	-----	----	---		16	19	68	
Number of Days						Season to Date	Snow, Ice ≥1.0 inch	4	Greatest in 24 Hours and Dates						Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date									
Max Temperature			Min Temperature			5826	0	Thunder	0	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----			Heavy Fog	0	0.00	-	15.0	7	21			7							
0	14	28	6	----	----			Clear	3	Partly Cloudy		9	Cloudy		16									

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

February 2020: Westford

Hour	FEB 01									FEB 02									FEB 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	30.10	0.00	29	23	78	18	1	4	0	29.67	0.00	23	20	90	35	0	0	0	29.48	0.00	26	23	88	18	1	4
03	0	30.04	0.00	28	22	77	17	0	0	0	29.61	0.00	22	20	90	35	0	0	0	29.54	0.00	26	24	92	18	0	0
06	0	30.01	0.00	27	23	85	17	0	0	0	29.57	0.00	22	20	91	35	0	0	0	29.61	0.00	26	24	93	18	2	4
09	39	30.00	0.00	26	22	87	00	2	3	171	29.55	0.00	25	20	81	35	0	0	88	29.67	0.00	30	26	85	17	6	14
12	114	29.93	0.00	26	22	82	35	2	5	225	29.49	0.00	28	22	79	23	1	4	102	29.70	0.00	35	29	78	19	4	9
15	47	29.83	0.00	26	20	78	35	0	3	195	29.43	0.00	31	23	72	19	1	6	16	29.72	0.00	35	30	84	22	4	14
18	0	29.78	0.00	25	20	81	35	0	0	0	29.45	0.00	28	23	81	15	0	0	0	29.81	0.00	35	29	77	22	4	11
21	0	29.73	0.00	24	20	88	35	0	0	0	29.47	0.00	28	24	84	17	5	8	0	29.88	0.00	35	28	76	26	2	9
FEB 04									FEB 05									FEB 06									
00	0	29.86	0.00	29	26	89	26	0	0	0	29.85	0.00	30	23	75	27	1	12	0	30.00	0.00	12	7	83	01	0	0
03	0	29.82	0.00	24	23	93	06	0	0	0	29.88	0.00	28	19	69	27	4	10	0	29.93	0.00	15	10	79	01	0	0
06	0	29.79	0.00	23	22	95	06	0	0	0	29.96	0.00	24	19	81	26	3	10	0	29.87	0.00	17	15	90	04	2	6
09	26	29.77	0.00	29	24	81	04	0	3	98	30.08	0.00	21	17	84	30	3	10	18	29.79	0.00	21	19	90	03	0	1
12	86	29.73	0.00	32	26	78	05	0	0	464	30.09	0.00	21	10	61	27	1	11	28	29.69	0.00	25	22	90	01	0	0
15	58	29.72	0.00	34	28	79	19	0	6	158	30.11	0.00	23	10	57	01	0	5	11	29.61	0.00	28	25	90	01	0	0
18	0	29.79	0.00	29	25	87	20	0	0	0	30.10	0.00	14	6	72	01	0	0	0	29.59	0.00	22	20	91	27	3	6
21	0	29.82	0.00	30	25	81	25	2	10	0	30.07	0.00	8	4	84	01	0	0	0	29.51	0.00	20	18	94	27	0	0
FEB 07									FEB 08									FEB 09									
00	0	29.42	0.00	24	22	95	27	0	0	0	29.61	0.00	11	8	88	28	5	13	0	30.42	0.00	-8	-11	85	32	0	2
03	0	29.34	0.00	25	23	94	28	0	3	0	29.76	0.00	8	5	87	27	1	7	0	30.46	0.00	-10	-13	82	32	0	0
06	0	29.24	0.00	26	25	95	27	0	0	0	29.89	0.00	3	-0	85	26	2	7	0	30.51	0.00	-11	-15	81	32	0	0
09	11	29.15	0.00	23	21	93	30	0	0	18	30.02	0.00	3	-1	84	25	5	9	53	30.56	0.00	2	-1	88	19	1	4
12	5	28.97	0.00	23	21	92	26	0	0	251	30.10	0.00	10	5	81	29	2	9	392	30.52	0.00	18	12	78	19	6	10
15	9	28.94	0.00	19	17	92	27	0	0	239	30.19	0.00	10	4	77	31	1	4	216	30.46	0.00	24	19	80	17	2	9
18	0	29.19	0.00	17	15	91	29	0	0	0	30.28	0.00	1	-4	80	32	0	2	0	30.43	0.00	22	20	89	16	2	9
21	0	29.43	0.00	16	13	91	28	5	9	0	30.38	0.00	-6	-9	84	32	0	0	0	30.38	0.00	25	23	91	15	3	9
FEB 10									FEB 11									FEB 12									
00	0	30.25	0.00	26	24	91	21	1	7	0	30.10	0.00	22	21	94	34	0	0	0	29.81	0.00	30	26	83	24	4	9
03	0	30.13	0.00	27	26	95	16	5	10	0	30.06	0.00	25	24	97	04	2	6	0	29.86	0.00	29	24	82	23	3	13
06	0	29.99	0.00	32	30	94	17	9	22	0	30.02	0.00	26	25	96	03	0	0	0	29.98	0.00	28	22	78	22	5	15
09	7	29.96	0.00	33	31	94	16	8	19	39	29.95	0.00	29	28	96	18	0	0	156	30.06	0.00	29	20	68	25	8	15
12	26	29.93	0.00	34	32	93	18	5	17	74	29.87	0.00	32	30	95	18	4	5	670	30.06	0.00	33	21	62	23	5	15
15	37	29.96	0.00	34	32	94	26	1	6	56	29.81	0.00	33	31	94	18	0	1	128	29.98	0.00	34	19	54	17	4	15
18	0	30.06	0.00	32	31	95	27	0	0	0	29.80	0.00	31	29	93	28	0	2	0	30.00	0.00	31	23	70	17	7	16
21	0	30.10	0.00	30	28	93	33	1	3	0	29.80	0.00	29	25	86	24	3	8	0	29.93	0.00	30	22	71	17	6	12
FEB 13									FEB 14									FEB 15									
00	0	29.84	0.00	32	23	70	18	5	14	0	29.93	0.00	6	2	84	34	2	12	0	30.60	0.00	-11	-15	82	05	0	0
03	0	29.77	0.00	32	25	74	17	8	15	0	30.05	0.00	3	-1	84	34	1	4	0	30.60	0.00	-11	-15	81	15	1	3
06	0	29.69	0.00	31	29	94	18	3	7	0	30.21	0.00	-3	-8	81	32	2	8	0	30.59	0.00	-2	-8	74	16	7	13
10	25	29.64	0.00	32	30	95	18	0	4	54	30.35	0.00	-6	-11	78	34	1	8	308	30.58	0.00	4	-5	66	17	6	16
12	84	29.62	0.00	30	28	92	29	1	4	431	30.41	0.00	1	-8	65	33	0	10	552	30.47	0.00	16	2	55	17	12	21
15	37	29.60	0.00	30	28	89	32	0	4	197	30.44	0.00	4	-9	54	28	3	10	195	30.36	0.00	19	4	51	17	8	22
18	0	29.71	0.00	16	13	89	02	1	8	0	30.52	0.00	-4	-11	69	00	1	5	0	30.23	0.00	19	2	47	17	9	23
21	0	29.84	0.00	11	7	86	33	1	12	0	30.58	0.00	-12	-16	82	05	0	0	0	30.14	0.00	19	5	53	17	13	26
FEB 16									FEB 17									FEB 18									
00	0	30.08	0.00	22	7	52	17	11	23	0	30.00	0.00	27	22	81	18	0	4	0	30.42	0.00	5	-2	73	35	0	7
03	0	30.06	0.00	22	12	63	17	9	21	0	30.06	0.00	27	23	87	27	6	12	0	30.38	0.00	5	-1	76	01	0	0
06	0	30.03	0.00	23	17	76	16	9	20	0	30.14	0.00	20	14	78	29	3	9	0	30.32	0.00	10	5	79	01	0	0
09	74	30.03	0.00	25	19	77	18	5	21	176	30.24	0.00	20	14	77	27	3	10	47	30.28	0.00	24	16	72	16	5	15
12	234	29.99	0.00	30	21	71	19	4	16	534	30.30	0.00	23	9	55	35	2	9	156	30.14	0.00	26	21	82	15	9	18
15	139	29.96	0.00	33	24	69	16	6	12	287	30.33	0.00	23	4	44	31	2	9	47	29.96	0.00	31	24	74	16	8	18
18	0	29.98	0.00	31	23	71	16	3	9	0	30.39	0.00	14	2	57	35	0	4	0	29.92	0.00	32	29	89	17	8	17
21	0	29.97	0.00	29	23	76	17	5	11	0	30.42	0.00	8	1	74	35	0	0	0	29.87	0.00	35	32	90	18	6	20

MAXIMUM SHORT DURATION PRECIPITATION

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

OBSERVATIONS AT 3-HOUR INTERVALS

February 2020: Westford

Hour	FEB 19									FEB 20									FEB 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	29.90	0.00	36	28	72	22	10	21	0	30.34	0.00	9	-0	65	27	0	0	0	30.47	0.00	-2	-8	76	06	0	0
03	0	29.93	0.00	33	24	68	25	4	17	0	30.34	0.00	7	-0	71	27	0	0	0	30.46	0.00	-2	-8	76	06	0	0
06	0	29.97	0.00	31	19	61	23	8	21	0	30.36	0.00	4	-1	79	27	0	0	0	30.45	0.00	-5	-10	80	16	1	5
09	295	30.05	0.00	29	10	44	23	13	25	258	30.43	0.00	9	3	75	31	1	8	197	30.46	0.00	9	-2	63	17	6	12
12	438	30.16	0.00	26	10	50	27	13	26	555	30.43	0.00	14	3	61	34	2	7	547	30.40	0.00	22	6	50	16	5	10
15	318	30.19	0.00	25	2	36	28	7	17	246	30.40	0.00	14	1	55	34	2	11	220	30.29	0.00	25	6	44	15	8	16
18	0	30.24	0.00	17	3	53	28	6	19	0	30.45	0.00	6	-5	60	33	1	3	0	30.22	0.00	22	7	52	17	6	14
21	0	30.32	0.00	13	-0	55	27	4	10	0	30.48	0.00	-0	-6	75	06	0	0	0	30.18	0.00	21	10	60	18	9	18
FEB 22									FEB 23									FEB 24									
00	0	30.12	0.00	21	8	55	18	6	17	0	30.09	0.00	22	18	84	17	3	5	0	29.95	0.00	33	22	63	18	1	4
03	0	30.10	0.00	19	7	58	18	5	12	0	30.08	0.00	25	20	83	18	2	9	0	29.90	0.00	33	20	58	17	2	8
06	0	30.09	0.00	19	8	63	18	4	11	0	30.07	0.00	25	20	81	15	2	7	0	29.90	0.00	34	19	54	16	3	11
09	186	30.10	0.00	25	14	61	18	6	13	309	30.08	0.00	34	23	65	18	3	10	297	29.90	0.00	40	20	43	17	6	18
12	570	30.07	0.00	35	21	56	21	7	14	570	30.03	0.00	41	25	53	16	6	18	570	29.87	0.00	48	24	38	17	10	17
15	304	30.04	0.00	37	22	55	21	6	15	339	29.98	0.00	44	26	48	18	8	15	350	29.84	0.00	51	27	39	17	7	16
18	0	30.07	0.00	29	21	71	20	3	7	0	29.97	0.00	39	25	56	17	3	7	0	29.86	0.00	43	28	56	18	3	6
21	0	30.09	0.00	24	19	80	20	0	4	0	29.98	0.00	36	24	62	17	3	12	0	29.91	0.00	39	30	69	20	0	0
FEB 25									FEB 26									FEB 27									
00	0	29.92	0.00	36	29	75	20	0	0	0	29.95	0.00	33	29	83	29	0	2	0	29.73	0.00	40	32	71	16	8	14
03	0	29.88	0.00	35	29	79	03	0	0	0	29.96	0.00	32	27	81	32	0	3	0	29.51	0.00	40	33	77	18	0	8
06	0	29.87	0.00	35	30	81	03	0	4	0	29.99	0.00	30	25	81	31	2	4	0	29.33	0.00	38	34	85	13	0	0
09	174	29.89	0.00	40	32	73	04	0	0	116	30.01	0.00	29	25	82	27	0	2	33	29.14	0.00	37	35	93	16	0	2
12	211	29.90	0.00	41	31	68	28	2	9	125	30.00	0.00	30	26	85	27	0	0	21	29.19	0.00	30	29	94	25	9	19
15	98	29.90	0.00	37	32	83	27	0	0	54	29.94	0.00	31	27	85	27	0	0	21	29.27	0.00	27	25	91	22	6	15
18	0	29.93	0.00	34	32	92	27	0	0	0	29.89	0.00	29	26	90	30	0	0	0	29.36	0.00	25	22	88	21	9	18
21	0	29.96	0.00	34	29	84	27	0	0	0	29.81	0.00	31	29	93	30	0	0	0	29.42	0.00	24	19	82	21	9	23
FEB 28									FEB 29																		
00	0	29.43	0.00	22	18	84	21	5	15	0	29.68	0.00	17	14	88	28	3	9									
03	0	29.45	0.00	20	16	84	21	4	16	0	29.68	0.00	13	10	88	01	0	0									
06	0	29.49	0.00	21	15	78	21	7	16	0	29.70	0.00	11	8	86	31	0	3									
09	32	29.55	0.00	20	17	87	18	4	10	90	29.77	0.00	12	8	82	33	2	5									
12	114	29.57	0.00	24	17	75	21	8	20	206	29.80	0.00	15	8	72	22	3	11									
15	120	29.59	0.00	25	20	82	21	8	15	209	29.82	0.00	17	9	69	25	2	10									
18	0	29.64	0.00	23	13	66	20	5	14	0	29.89	0.00	14	10	82	29	0	8									
21	0	29.67	0.00	20	16	83	18	2	9	0	29.96	0.00	14	7	76	27	0	0									

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	29.966	21	15	79	2.3	21	1.7
03	0	29.953	20	15	80	2.0	21	1.3
06	0	29.954	19	15	82	2.5	20	1.7
09	117	29.968	22	16	78	3.2	20	2.2
12	288	29.946	26	18	72	4.2	21	2.9
15	150	29.920	28	18	70	3.2	20	2.3
18	0	29.949	23	16	76	2.5	20	1.9
21	0	29.969	21	16	79	2.8	20	2.1

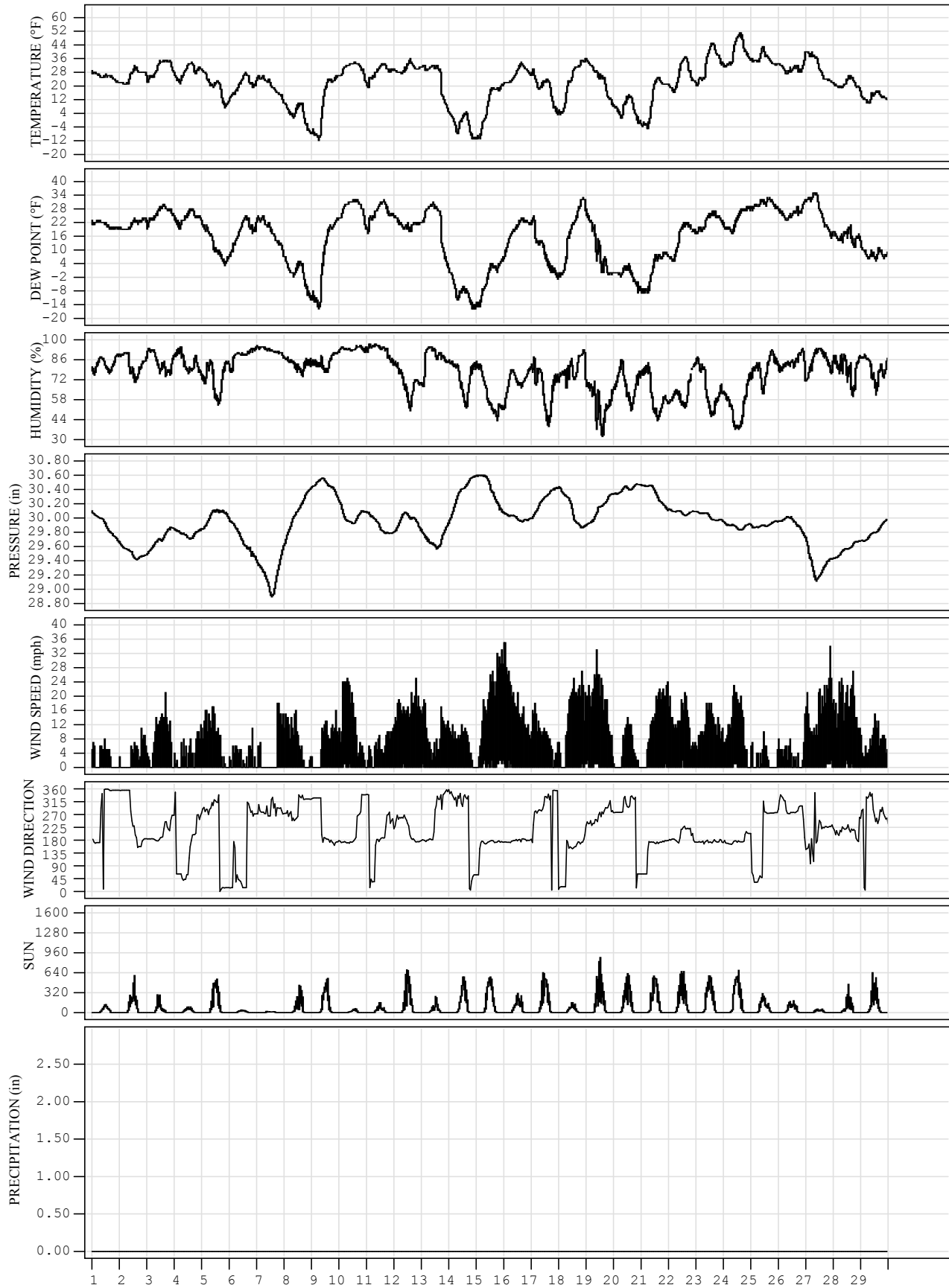
HOURLY PRECIPITATION (Water Equivalent) February 2020: Westford

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
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

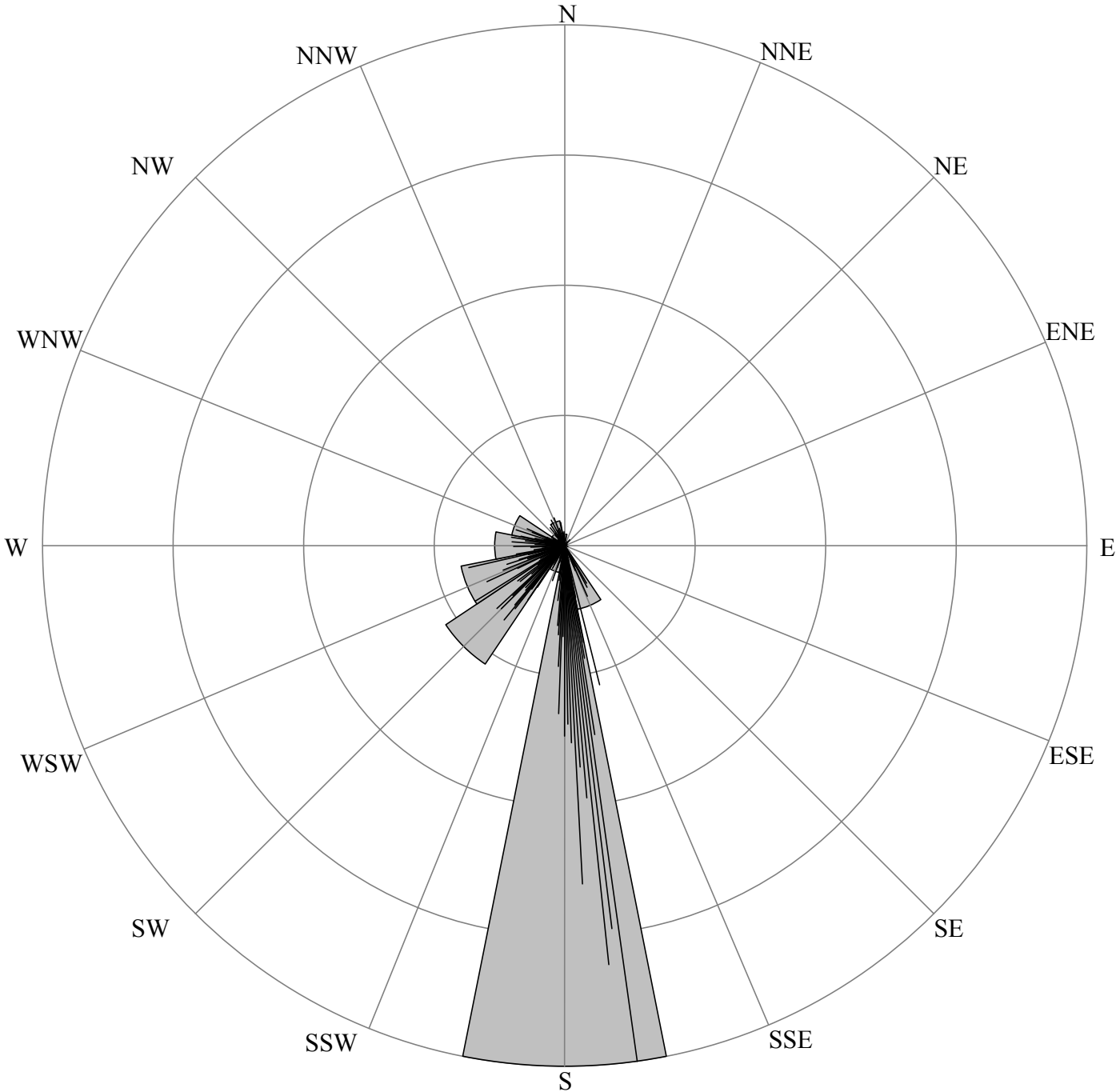
During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA

February 2020: Westford



Wind Rose: February 2020
Westford



Maximum direction of wind: 136.7 miles from 172°
Maximum sector of wind: 1002.1 miles from S
2006.4 total miles of wind