

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

July 2019

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
1	2	3	4A	4B	5	6	7	8		11	12	13	14	15	16	17	18	19	20	21	22	23	
1	80.6	54.8	67.7	67.3	61	81	0	3	.....	0	0.01	0.0	29.90	29.78	29.846	0.2	0.2	302	13	W	5	301	301
2	83.1	61.8	72.4	71.1	63	76	0	8	.....	0	0.01	0.0	29.78	29.67	29.714	0.4	0.3	263	14	SSW	5	287	281
3	85.6	59.9	72.8	71.9	63	76	0	8	.....	0	0.00	0.0	29.92	29.73	29.807	0.1	0.0	322	11	NNW	3	315	295
4	88.4	57.7	73.1	72.7	63	75	0	8	.....	0	0.00	0.0	30.05	29.92	30.001	0.0	0.0	260	7	W	1	257	259
5	86.8	60.6	73.7	75.2	64	70	0	9	.....	0	0.00	0.0	30.05	29.89	29.987	0.5	0.5	211	15	S	5	207	217
6	84.9	58.6	71.8	73.5	69	86	0	7	..3.....	0	0.42	0.0	29.89	29.74	29.806	0.4	0.3	256	24	WNW	7	299	176
7	74.5	48.7	61.6*	62.2	53	74	3	0	.....	0	0.00	0.0	29.98	29.86	29.937	0.1	0.1	333	13	N	4	292	309
8	80.0	46.4*	63.2	63.7	53	73	2	0	.....	0	0.00	0.0	29.99	29.89	29.951	0.0	0.0	296	11	WNW	2	285	301
9	82.9	51.8	67.4	67.9	57	71	0	3	.....	0	0.00	0.0	30.02	29.93	29.965	0.2	0.1	288	11	NW	4	285	282
10	85.5	57.5	71.5	71.2	61	73	0	7	.....	0	0.00	0.0	30.00	29.89	29.950	0.0	0.0	269	10	WNW	4	303	275
11	81.2	59.7	70.4	71.4	65	82	0	6	..3.....	0	0.31	0.0	29.89	29.66	29.781	0.3	0.3	218	18	SSW	8	309	134
12	79.7	59.7	69.7	68.2	65	90	0	5	.....	0	0.30	0.0	29.78	29.62	29.675	0.2	0.1	244	13	SSW	5	206	165
13	83.0	58.4	70.7	70.7	63	79	0	6	.....	0	0.05	0.0	29.84	29.75	29.797	0.5	0.4	268	20	NW	12	296	274
14	76.7	56.0	66.3	67.5	61	81	0	2	.....	0	0.00	0.0	29.96	29.76	29.852	0.4	0.4	303	18	W	7	285	220
15	78.7	54.3	66.5	65.7	58	78	0	2	.....	0	0.00	0.0	30.02	29.95	29.984	0.1	0.1	304	12	WNW	4	302	283
16	80.0	54.5	67.3	68.5	62	80	0	3	.....	0	T	0.0	30.00	29.83	29.919	0.8	0.8	212	19	SSW	7	210	187
17	80.2	62.3	71.2	71.4	68	90	0	6	.....	0	1.85	0.0	29.90	29.76	29.821	0.3	0.2	215	22	N	7	47	115
18	82.7	54.8	68.7	68.9	63	83	0	4	.....	0	0.00	0.0	29.96	29.79	29.886	0.0	0.0	263	10	NW	3	290	276
19	87.0	65.8	76.4	76.1	70	83	0	12	.....	0	0.00	0.0	29.80	29.67	29.720	0.8	0.8	223	18	WSW	7	210	228
20	91.0*	70.3	80.7*	80.0	73	79	0	16	..3.....	0	0.00	0.0	29.74	29.61	29.681	0.4	0.3	243	14	W	5	280	258
21	85.8	63.6	74.7	76.4	69	80	0	10	.....	0	T	0.0	29.79	29.59	29.664	0.5	0.4	276	19	W	6	276	192
22	67.0	58.3	62.6	63.3	59	87	2	0	.....	0	0.00	0.0	29.90	29.79	29.836	0.0	0.0	222	8	SSW	2	213	91
23	78.7	56.9	67.8	65.2	59	82	0	3	.....	0	0.01	0.0	29.89	29.78	29.817	0.1	0.1	308	13	W	5	299	233
24	75.8	50.5	63.2	63.6	57	79	1	0	.....	0	0.00	0.0	29.99	29.88	29.937	0.1	0.1	310	12	NW	5	289	279
25	81.1	51.6	66.3	66.3	58	78	0	2	.....	0	0.00	0.0	30.11	29.99	30.044	0.0	0.0	279	6	WNW	1	311	263
26	85.4	56.0	70.7	70.0	61	77	0	6	.....	0	0.00	0.0	30.21	30.11	30.172	0.0	0.0	226	10	SSW	3	210	270
27	87.1	56.5	71.8	71.1	62	77	0	7	..3.....	0	0.19	0.0	30.21	30.02	30.127	0.2	0.2	217	14	S	6	221	265
28	84.1	61.8	72.9	70.9	67	87	0	8	..3.....	0	0.06	0.0	30.04	29.85	29.925	0.3	0.3	214	16	SW	6	208	167
29	88.5	63.5	76.0	73.8	67	81	0	12	..3.....	0	0.01	0.0	29.89	29.81	29.863	0.2	0.2	254	12	W	5	272	267
30	89.1	65.3	77.2	74.6	68	82	0	12	..3.....	0	0.31	0.0	29.91	29.77	29.857	0.6	0.6	219	30	WSW	15	265	242
31	81.2	60.9	71.0	70.3	66	87	0	6	..3.....	0	0.09	0.0	29.98	0.00	29.929	0.2	0.1	229	11	N	4	193	178
Sum	Sum	-----	-----	---	----	Ttl	Ttl	Number of Days		Total	Total	For the month:										---	
2556	1799					8	181			3.62	0.0	30.21	0.00	29.879	0.3	0.2	244	30	WSW	15	265		
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg			
82.5	58.0	70.2	70.0	63	79.8	----	----	≥.01 inch	13	28.52	0.0	27	31	-----	----	----	---	30	30	235			
Number of Days						Season to Date		Snow, Ice ≥1.0 inch		Greatest in 24 Hours and Dates				Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date									
Max Temperature			Min Temperature			8	213	Thunder		7		Precipitation		Snow, Ice Plts									
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog		0		1.85	17	0.0		-		0							
1	0	0	0	----	----	Clear		10		Partly Cloudy		16		Cloudy		5							

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

July 2019: Westford

Hour	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	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	Direction	Speed	Gust																																																																																																																																																																																																	
JUL 01									JUL 02									JUL 03																																																																																																																																																																																																													
00	0	29.84	0.00	59	58	94	35	0	0	0	29.78	0.00	65	60	86	26	0	0	0	29.73	0.00	62	59	91	30	0	0	03	0	29.87	0.00	57	55	96	35	0	0	0	29.73	0.00	65	59	80	19	0	4	0	29.75	0.00	62	60	92	21	0	0	06	32	29.89	0.00	56	55	96	35	0	0	11	29.75	0.00	63	59	89	19	0	4	28	29.77	0.00	60	59	95	21	0	0	09	422	29.89	0.00	66	62	86	31	0	6	536	29.73	0.00	73	62	70	21	3	11	522	29.81	0.00	76	68	75	18	0	0	12	926	29.88	0.00	75	64	69	29	3	9	851	29.70	0.00	78	64	62	30	1	11	882	29.82	0.00	82	67	61	31	0	1	15	802	29.84	0.00	79	62	57	34	0	6	812	29.68	0.00	81	68	64	31	0	10	770	29.82	0.00	84	67	56	29	1	8	18	206	29.79	0.00	79	64	60	34	0	0	141	29.68	0.00	80	66	61	30	0	7	128	29.82	0.00	83	68	61	32	0	0	21	0	29.80	0.00	64	60	86	27	0	0	0	29.68	0.00	66	61	86	30	0	0	0	29.85	0.00	65	59	82	31	0	0
JUL 04									JUL 05									JUL 06																																																																																																																																																																																																													
00	0	29.92	0.00	61	58	92	31	0	0	0	30.04	0.00	63	60	92	25	0	0	0	29.89	0.00	73	62	70	21	0	0	03	0	29.96	0.00	59	57	93	29	0	0	0	30.04	0.00	61	59	93	25	0	0	0	29.84	0.00	71	68	90	22	0	0	06	18	29.98	0.00	58	57	95	02	0	0	30	30.04	0.00	68	63	83	20	0	4	30	29.83	0.00	71	69	94	20	0	4	09	397	30.02	0.00	79	67	68	20	0	0	559	30.03	0.00	80	67	65	21	1	9	90	29.81	0.00	77	72	86	18	1	9	12	752	30.04	0.00	85	68	58	18	0	1	768	30.01	0.00	83	66	56	22	2	11	522	29.76	0.00	83	74	74	27	4	14	15	805	30.01	0.00	85	66	52	28	0	0	410	29.97	0.00	84	67	58	20	1	4	476	29.77	0.00	74	71	92	02	1	8	18	153	30.00	0.00	86	67	54	25	0	0	153	29.92	0.00	82	67	61	20	0	1	134	29.75	0.00	77	71	84	01	0	0	21	0	30.02	0.00	68	62	82	25	0	0	0	29.90	0.00	75	61	62	20	0	0	0	29.82	0.00	69	63	81	02	1	8
JUL 07									JUL 08									JUL 09																																																																																																																																																																																																													
00	0	29.86	0.00	59	55	88	01	0	0	0	29.95	0.00	51	49	92	00	0	0	0	29.94	0.00	58	52	79	00	0	0	03	0	29.89	0.00	55	51	87	00	0	0	0	29.97	0.00	48	47	94	00	0	0	0	29.93	0.00	55	52	91	00	0	0	06	0	29.92	0.00	49	48	93	00	0	0	0	29.97	0.00	47	45	95	00	0	0	0	29.97	0.00	53	50	92	00	0	0	09	399	29.97	0.00	62	55	78	00	0	5	381	29.98	0.00	59	56	90	00	0	0	249	30.00	0.00	65	58	77	00	0	0	12	820	29.97	0.00	71	55	56	00	0	0	800	29.99	0.00	73	57	58	29	0	7	783	29.99	0.00	76	62	61	29	0	3	15	880	29.96	0.00	74	57	55	31	1	7	869	29.93	0.00	77	53	43	29	0	2	807	29.95	0.00	82	64	55	00	0	0	18	116	29.93	0.00	72	57	59	00	0	0	125	29.91	0.00	77	59	53	29	0	2	191	29.94	0.00	80	60	50	27	0	5	21	21	29.93	0.00	64	55	73	00	0	0	28	29.92	0.00	67	58	72	00	0	0	30	29.95	0.00	69	60	73	00	0	0
JUL 10									JUL 11									JUL 12																																																																																																																																																																																																													
00	0	29.97	0.00	64	56	76	00	0	0	0	29.90	0.00	61	58	90	00	0	0	0	29.69	0.01	64	62	93	00	0	0	03	0	29.97	0.00	61	57	87	00	0	0	0	29.88	0.00	61	58	90	00	0	0	0	29.65	0.00	64	62	95	00	0	0	06	0	29.98	0.00	58	56	93	00	0	0	0	29.85	0.00	64	60	87	20	0	1	0	29.63	0.00	65	63	96	00	0	0	09	329	30.00	0.00	71	61	73	18	0	1	290	29.83	0.00	75	67	77	00	0	0	82	29.64	0.00	67	66	96	20	0	5	12	644	29.98	0.00	80	66	62	00	0	0	503	29.79	0.00	80	71	72	20	1	8	674	29.65	0.00	76	69	78	31	0	2	15	844	29.94	0.00	84	60	44	29	0	5	289	29.76	0.00	80	71	74	20	1	9	369	29.66	0.00	78	70	77	31	0	5	18	235	29.92	0.00	84	61	46	00	0	0	200	29.70	0.00	78	68	71	00	0	0	109	29.68	0.00	69	67	92	00	0	0	21	22	29.90	0.00	72	65	77	00	0	0	9	29.67	0.00	74	67	79	20	2	11	27	29.73	0.00	67	63	87	29	0	6
JUL 13									JUL 14									JUL 15																																																																																																																																																																																																													
00	0	29.78	0.00	60	58	94	00	0	0	0	29.80	0.00	69	61	76	20	0	5	0	29.95	0.00	58	55	88	00	0	0	03	0	29.78	0.00	62	61	95	00	0	0	0	29.77	0.00	61	58	90	00	0	0	0	29.96	0.00	57	54	92	00	0	0	06	0	29.79	0.00	59	58	96	00	0	0	0	29.79	0.00	62	61	95	00	0	0	0	29.97	0.00	55	53	93	00	0	0	10	349	29.83	0.00	67	66	94	00	0	0	145	29.82	0.00	68	63	85	29	0	4	237	30.00	0.00	64	60	84	00	0	0	12	842	29.83	0.00	77	68	76	20	0	5	981	29.85	0.00	75	65	70	29	1	6	780	30.01	0.00	73	61	66	29	0	5	15	873	29.80	0.00	81	66	62	27	1	8	876	29.87	0.00	76	66	73	31	2	15	861	30.00	0.00	77	60	56	29	0	3	18	141	29.76	0.01	82	69	63	20	2	10	181	29.88	0.00	71	62	72	33	0	9	125	29.97	0.00	76	60	57	00	0	0	21	5	29.77	0.00	74	62	65	27	0	2	28	29.92	0.00	68	58	71	31	1	7	25	29.97	0.00	69	62	77	00	0	0
JUL 16									JUL 17									JUL 18																																																																																																																																																																																																													
00	0	30.00	0.00	57	55	94	36	0	0	0	29.83	0.00	72	66	81	22	0	0	0	29.90	0.00	62	61	96	01	0	0	03	0	29.99	0.00	55	54	95	36	0	0	0	29.81	0.00	72	66	82	26	0	6	0	29.89	0.00	58	57	96	01	0	0	06	25	30.00	0.00	56	55	96	21	0	0	5	29.80	0.00	69	67	93	21	0	0	26	29.93	0.00	56	54	96	02	0	0	09	504	29.97	0.00	73	63	72	24	0	8	171	29.83	0.00	70	69	95	23	0	7	517	29.94	0.00	69	63	82	02	0	0	12	253	29.94	0.00	72	62	70	21	2	12	974	29.81	0.00	78	74	87	20	0	9	977	29.93	0.00	78	65	64	29	0	0	15	759	29.89	0.00	77	65	68	21	4	13	234	29.79	0.00	77	73	87	21	0	2	846	29.87	0.00	81	68	65	27	0	0	18	77	29.83	0.00	79	69	71	21	1	13	113	29.81	0.00	72	71	95	10	0	0	227	29.85	0.00	80	68	67	16	0	0	21	0	29.83	0.00	74	67	78	21	0	0	0	29.85	0.00	67	65	92	01	0	0	0	29.82	0.11	68	65	91	18	0	0

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	1.22	1.61	1.97	2.16	2.49	2.53	2.64	3.54	4.37	4.76	4.88	5.00
Ended: Date	19	19	18	18	18	18	18	18	18	18	18	18
Ended: Time	0449	0451	1822	1824	2322	2336	2351	2259	2322	2336	2322	2351

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

July 2019: Westford

Hour	JUL 19									JUL 20									JUL 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	29.80	0.07	66	64	94	19	0	6	0	29.69	0.00	76	71	85	25	0	6	0	29.63	0.00	76	72	86	20	0	8
03	0	29.77	0.08	67	64	90	21	0	10	0	29.69	0.00	73	70	90	22	0	2	0	29.61	0.00	79	71	77	25	5	12
06	16	29.77	0.00	66	65	94	20	0	7	19	29.73	0.00	71	68	93	21	0	0	0	29.62	0.00	75	70	84	27	0	10
09	489	29.74	0.00	74	69	85	22	3	14	408	29.74	0.00	82	74	78	20	1	9	91	29.63	0.00	77	71	82	26	0	4
12	812	29.70	0.00	83	75	76	24	2	11	821	29.71	0.00	86	75	69	29	1	8	209	29.66	0.00	79	72	81	28	0	19
15	274	29.68	0.00	85	77	77	26	0	7	758	29.66	0.00	90	74	60	18	1	8	784	29.66	0.00	84	70	63	29	1	11
18	151	29.67	0.00	83	76	80	22	0	0	90	29.63	0.00	86	76	74	22	0	0	142	29.69	0.00	79	70	73	29	0	0
21	0	29.68	0.00	78	71	79	24	0	0	0	29.63	0.00	79	73	83	22	0	0	0	29.75	0.00	67	62	85	31	0	0
JUL 22									JUL 23									JUL 24									
00	0	29.79	0.00	64	61	90	31	0	0	0	29.81	0.00	59	57	94	34	0	0	0	29.89	0.00	62	58	88	33	0	0
03	0	29.82	0.00	62	59	90	07	0	0	0	29.79	0.00	58	57	95	34	0	0	0	29.89	0.00	55	53	93	00	0	0
06	28	29.84	0.00	59	57	94	03	0	0	11	29.80	0.00	57	56	96	34	0	0	11	29.93	0.00	51	49	95	00	0	0
09	308	29.84	0.00	67	60	78	06	0	0	439	29.82	0.00	63	61	95	34	0	0	501	29.96	0.00	68	57	67	00	0	0
12	272	29.87	0.00	65	60	83	20	0	8	160	29.81	0.00	74	63	67	34	0	2	193	29.95	0.00	73	61	66	27	0	7
15	176	29.84	0.00	64	59	85	21	0	0	773	29.80	0.00	79	62	57	31	0	0	773	29.93	0.00	75	59	57	02	1	9
18	102	29.81	0.00	66	60	82	21	0	0	366	29.82	0.00	72	58	62	23	0	0	299	29.93	0.00	70	59	69	01	0	0
21	0	29.83	0.00	62	59	91	34	0	0	0	29.86	0.00	61	57	87	28	0	0	0	29.96	0.00	58	55	88	01	0	0
JUL 25									JUL 26									JUL 27									
00	0	29.99	0.00	55	54	94	01	0	0	0	30.11	0.00	60	57	91	20	0	0	0	30.18	0.00	61	60	94	01	0	0
03	0	30.00	0.00	53	51	95	01	0	0	0	30.14	0.00	58	56	94	20	0	0	0	30.18	0.00	58	56	95	01	0	0
06	21	30.02	0.00	52	51	96	01	0	0	18	30.17	0.00	56	55	95	20	0	0	18	30.19	0.00	57	55	95	01	0	0
09	464	30.07	0.00	68	61	77	20	0	0	466	30.20	0.00	71	64	77	26	0	0	448	30.20	0.00	74	63	69	20	0	7
12	809	30.06	0.00	77	61	59	31	0	1	802	30.20	0.00	80	65	59	20	0	0	784	30.17	0.00	83	67	59	21	0	0
15	840	30.04	0.00	81	63	55	21	0	0	721	30.18	0.00	84	61	45	33	0	0	731	30.09	0.00	87	65	48	23	0	4
18	148	30.04	0.00	77	61	57	27	0	2	120	30.16	0.00	82	65	56	01	0	0	135	30.03	0.00	82	65	57	15	0	9
21	0	30.08	0.00	65	60	85	22	0	2	0	30.18	0.00	66	62	88	01	0	0	0	30.04	0.00	68	64	86	21	0	0
JUL 28									JUL 29									JUL 30									
00	0	30.04	0.00	63	61	94	22	0	0	0	29.88	0.00	67	65	95	14	0	0	0	29.86	0.00	69	66	92	22	0	0
03	0	29.99	0.00	63	61	95	21	0	6	0	29.88	0.00	65	64	96	18	0	0	0	29.84	0.00	68	65	90	21	0	0
06	14	29.96	0.00	65	62	91	20	0	12	11	29.88	0.00	64	63	96	22	0	1	16	29.86	0.00	70	66	87	21	0	6
09	638	29.95	0.00	74	68	82	23	0	9	299	29.89	0.00	75	70	87	22	0	11	452	29.88	0.00	79	70	74	19	0	6
12	847	29.92	0.00	81	70	69	20	0	11	192	29.89	0.00	80	68	67	26	1	9	817	29.87	0.00	86	73	66	24	1	9
15	281	29.87	0.00	73	70	89	21	0	0	765	29.85	0.00	87	69	55	25	0	0	714	29.80	0.00	89	72	58	23	2	11
18	132	29.86	0.00	76	72	87	05	0	0	121	29.82	0.00	81	66	62	22	0	0	60	29.85	0.00	74	71	90	17	0	0
21	0	29.89	0.08	70	68	94	14	0	0	0	29.84	0.00	67	64	90	22	0	0	0	29.88	0.00	68	66	92	21	0	0
JUL 31																											
00	0	29.90	0.00	66	64	92	21	0	0																		
03	0	29.89	0.00	67	64	92	20	0	0																		
06	18	29.91	0.00	65	63	95	23	0	0																		
09	482	29.94	0.00	75	70	85	19	0	5																		
12	984	29.95	0.00	78	69	75	30	1	7																		
15	26	29.93	0.00	72	65	79	01	1	11																		
18	155	29.92	0.00	76	69	79	21	0	0																		
21	0	29.96	0.05	66	63	91	21	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

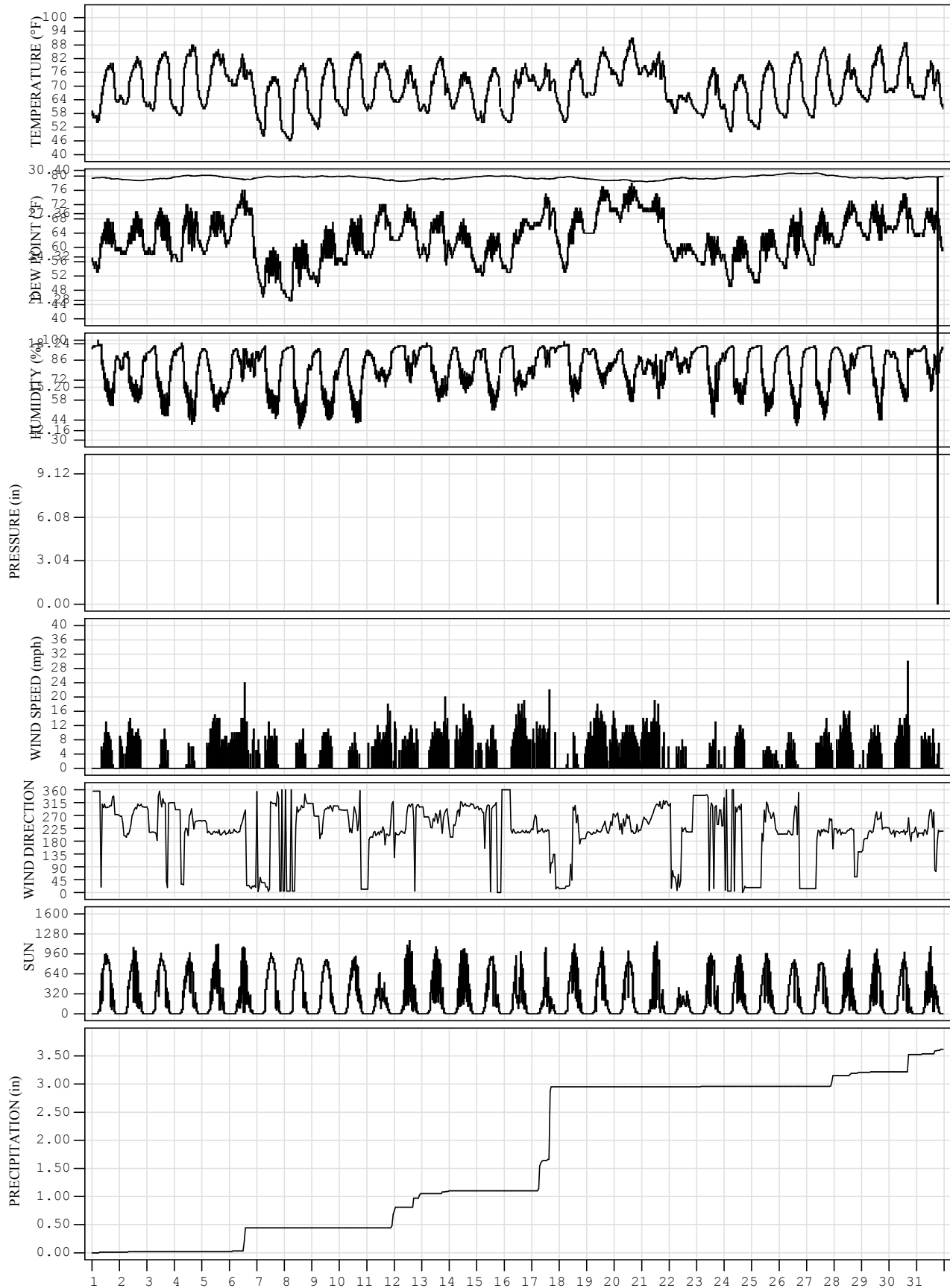
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
00	0	29.883	63	60	89	0.0	0	0.0
03	0	29.876	62	59	91	0.2	25	0.2
06	13	29.888	60	58	93	0.0	21	0.0
09	376	29.902	71	65	80	0.3	21	0.3
12	691	29.894	78	66	68	0.6	26	0.5
15	652	29.866	80	66	63	0.6	26	0.3
18	154	29.850	78	66	68	0.1	21	0.1
21	6	29.869	68	63	82	0.1	25	0.0

HOURLY PRECIPITATION (Water Equivalent) July 2019: Westford

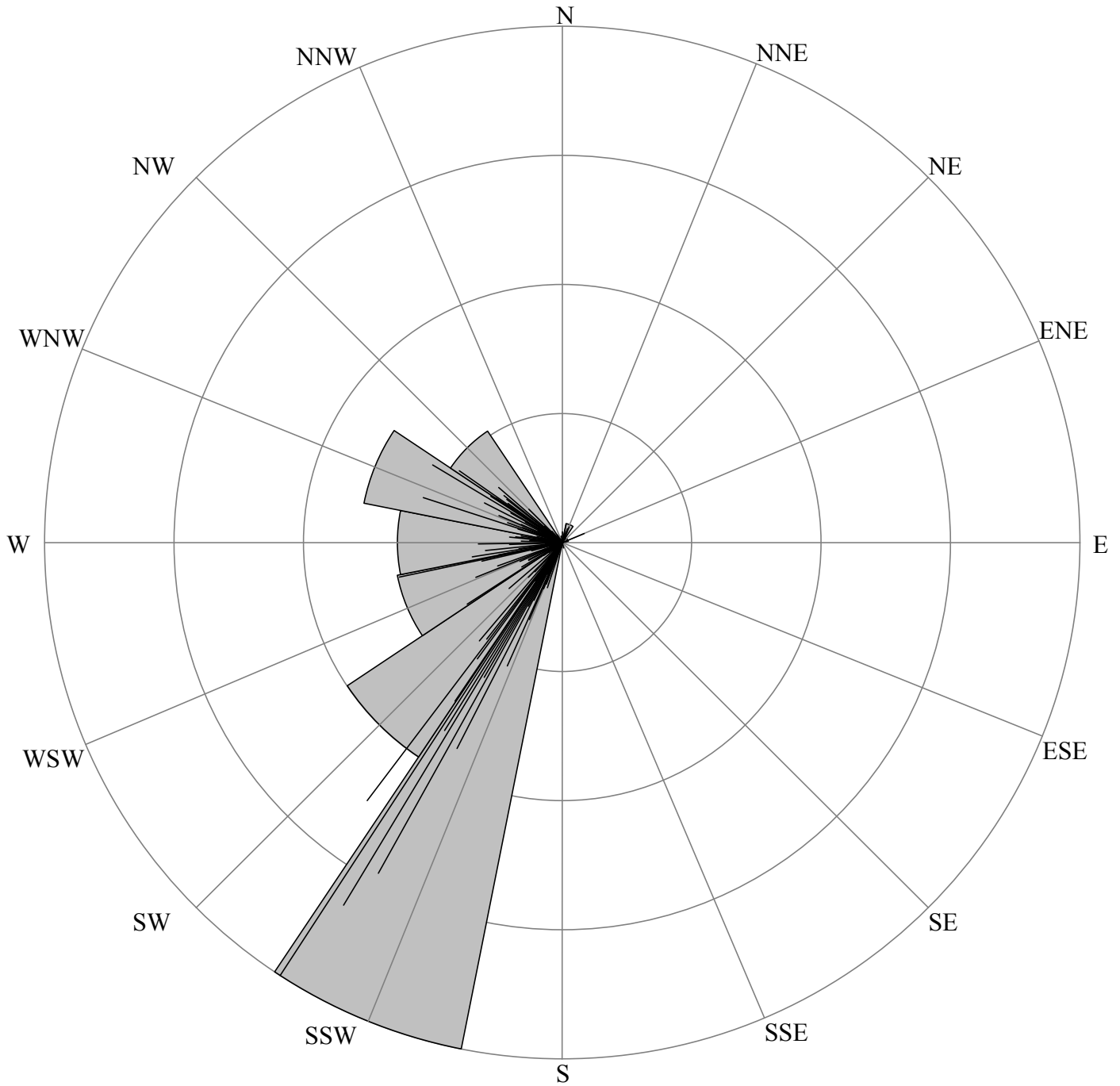
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date	
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12		
01							0.01																		01	
02								0.01																		02
03																										03
04																										04
05																										05
06			0.01										0.17	0.24												06
07																										07
08																										08
09																										09
10																										10
11																										11
12	0.06															0.16					0.04	0.20	0.07		12	
13																	0.03				0.05	0.03			13	
14																					0.01		0.01			14
15																										15
16																										16
17						0.04	0.40	0.06	0.03	0.01				0.02		1.21	0.08									17
18																										18
19																										19
20																										20
21																										21
22																										22
23			0.01																							23
24																										24
25																										25
26																										26
27														0.02	0.02						0.01	0.06	0.12			27
28																					0.02					28
29								0.01																		29
30																0.31										30
31					0.01											0.05	0.01					0.02				31
Sum	0.06	0.00	0.01	0.01	0.01	0.04	0.41	0.08	0.03	0.01	0.00	0.00	0.17	0.28	0.02	1.26	0.55	0.04	0.00	0.00	0.06	0.15	0.35	0.08	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
July 2019: Westford



Wind Rose: July 2019
Westford



Maximum direction of wind: 13.8 miles from 213°
Maximum sector of wind: 66.2 miles from SSW
189.9 total miles of wind