

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

May 2018

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	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	66.3	41.8	54.1	52.0	44	77	11	0	.....	0	0.02	0.0	30.00	29.90	29.948	0.9	0.8	221	14	W	10	293	203
2	84.2	55.4	69.8	68.9	45	44	0	5	.....	0	T	0.0	29.90	29.75	29.825	4.8	4.5	237	30	W	13	272	217
3	68.0	57.1	62.5	61.6	57	85	2	0	.....	0	0.25	0.0	29.87	29.79	29.826	1.1	0.9	248	16	W	9	259	44
4	74.5	51.5	63.0	60.0	56	87	1	0	.23.....	0	0.58	0.0	29.89	29.37	29.696	3.7	3.2	230	41	WSW	23	259	91	
5	71.7	42.6	57.1	57.0	41	58	7	0	.....	0	0.00	0.0	29.94	29.58	29.878	4.3	4.1	265	40	WSW	23	273	274
6	67.1	53.0	60.0	59.5	45	58	5	0	.....	0	0.00	0.0	29.97	29.86	29.914	0.9	0.4	291	14	NE	7	307	182
7	60.9	39.2	50.1	50.6	32	52	15	0	.....	0	0.00	0.0	30.18	29.91	30.079	0.6	0.6	343	13	NE	6	324	304
8	74.6	35.3	54.9	56.2	32	44	10	0	.....	0	0.00	0.0	30.22	30.08	30.157	0.9	0.8	245	15	W	9	296	306
9	81.4	42.9	62.2	64.6	42	46	3	0	.....	0	0.00	0.0	30.13	29.91	30.037	1.0	1.0	217	16	SSW	10	209	298
10	73.1	54.4	63.8	64.4	48	55	1	0	.....	0	0.00	0.0	29.93	29.52	29.703	4.8	4.4	217	29	SW	15	224	129
11	57.4	34.4	45.9*	44.6	31	59	19	0	.....	0	0.00	0.0	30.14	29.69	29.994	1.7	1.6	330	22	W	11	320	278
12	63.4	32.1*	47.8	48.8	29	50	17	0	.....	0	0.00	0.0	30.17	30.01	30.100	0.7	0.6	274	15	WNW	9	286	294
13	71.7	37.0	54.3	56.3	36	54	10	0	.....	0	0.00	0.0	30.15	29.88	30.031	1.6	1.5	224	22	SSW	11	210	303
14	76.6	48.5	62.5	61.8	50	67	2	0	.....	0	0.00	0.0	29.92	29.74	29.830	3.3	3.3	217	20	SW	11	212	287
15	62.6	47.7	55.1	57.8	52	82	9	0	.....	0	0.49	0.0	29.98	29.65	29.775	1.2	0.8	262	21	WNW	12	304	70
16	72.4	35.5	54.0	56.2	43	64	11	0	.....	0	0.00	0.0	30.12	29.90	30.008	2.9	2.9	215	23	SSW	12	215	300
17	66.8	45.6	56.2	58.9	49	72	8	0	.....	0	0.00	0.0	30.19	29.88	29.983	2.3	1.4	230	21	S	11	209	192
18	64.7	35.7	50.2	50.5	32	52	14	0	.....	0	0.00	0.0	30.39	30.19	30.317	0.7	0.5	332	18	NW	8	307	311
19	63.9	39.8	51.9	51.3	40	70	13	0	.....	0	0.14	0.0	30.32	29.84	30.140	2.0	2.0	203	27	WSW	13	203	128
20	65.6	48.5	57.0	58.0	53	85	7	0	.....	0	0.26	0.0	30.03	29.73	29.869	2.5	1.8	236	27	S	13	211	110
21	76.2	42.4	59.3	60.0	44	60	6	0	.....	0	0.00	0.0	30.13	30.02	30.071	1.1	1.0	279	22	WNW	9	279	303
22	67.0	49.5	58.3	56.5	51	83	6	0	.....	0	0.30	0.0	30.10	29.81	29.985	1.2	1.2	214	25	SSW	14	229	87
23	72.7	46.0	59.3	60.8	52	75	5	0	.....	0	0.01	0.0	29.96	29.81	29.870	0.9	0.7	266	18	WNW	9	290	293
24	71.7	46.6	59.1	57.5	38	51	5	0	.....	0	0.00	0.0	30.12	29.90	30.021	0.2	0.2	301	13	NW	5	303	281
25	80.5	55.4	68.0	66.1	54	66	0	3	.....	0	0.17	0.0	29.90	29.66	29.759	2.2	1.9	239	22	W	11	269	156
26	67.1	57.3	62.2	62.5	60	91	3	0	.....	0	0.28	0.0	29.92	29.63	29.752	0.1	0.1	244	12	WSW	5	243	80
27	65.8	52.1	59.0	58.3	50	75	6	0	.....	0	T	0.0	30.05	29.92	30.007	1.2	1.2	190	22	SW	8	205	137
28	72.6	51.7	62.1	61.6	54	76	2	0	.....	0	0.00	0.0	30.01	29.83	29.919	2.6	2.6	217	22	S	13	215	214
29	77.0	52.9	65.0	65.6	57	76	0	0	.....	0	0.04	0.0	30.06	29.85	29.973	0.4	0.3	286	13	WNW	8	290	267
30	84.1	44.0	64.0	66.6	53	64	1	0	.....	0	0.00	0.0	30.09	29.93	30.021	0.9	0.9	219	20	SSW	8	225	294
31	80.2	64.3	72.3*	72.0	58	62	0	7	.....	0	0.00	0.0	29.96	29.76	29.871	3.8	3.8	215	26	SSW	11	218	284
Sum	Sum	-----	-----	---	----		Ttl	Ttl			Total	Total	For the month:					---						
	2202	1440					199	15	Number of Days		2.54	0.0	30.39	29.37	29.947	1.8	1.4	235	41	WSW	23	259		
Avg	Avg	Avg	Mean	Avg	Avg		----	----	Precip		Season Ttl	Date	Date	-----	----	----	----	Date	Date	Avg				
	71.0	46.5	58.7	58.9	46	65.9	----	----	≥.01 inch	11	17.77	100.7	18	4	-----	----	----	4	4	217				
Number of Days							Season to Date	Snow, Ice ≥1.0 inch	0	Greatest in 24 Hours and Dates					Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date									
Max Temperature			Min Temperature			7571	15	Thunder	1	Precipitation		Snow, Ice Plts												
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	1	0.60	3- 4	0.0	-	0					-							
0	0	1	0	----	----	Clear	7	Partly Cloudy			13	Cloudy			9									

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

May 2018: 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
MAY 01																											
00	0	29.96	0.00	42	41	96	29	2	5	0	29.90	0.00	57	42	58	21	4	11	0	29.81	0.00	68	51	54	26	4	12
03	0	29.95	0.00	42	41	96	30	0	0	0	29.87	0.00	58	39	49	21	8	14	0	29.82	0.00	59	53	82	31	0	0
06	0	29.98	0.00	42	41	96	30	0	0	21	29.86	0.00	59	38	46	22	10	19	7	29.82	0.00	57	53	87	31	0	0
09	134	29.99	0.00	44	43	96	30	0	0	100	29.88	0.00	66	43	44	21	4	12	11	29.85	0.00	64	54	70	22	4	7
12	844	29.98	0.00	55	47	75	20	3	8	814	29.81	0.00	79	48	34	22	5	20	84	29.83	0.11	60	59	94	21	1	4
15	738	29.93	0.00	64	46	53	20	0	8	459	29.75	0.00	83	48	29	27	5	20	35	29.81	0.00	64	62	94	20	0	0
18	25	29.92	0.00	60	48	63	21	0	2	35	29.78	0.00	74	50	43	27	10	28	9	29.81	0.00	66	59	79	25	4	12
21	0	29.90	0.00	57	47	70	21	0	6	0	29.81	0.00	70	50	49	25	4	15	0	29.84	0.10	61	59	94	31	6	11
MAY 02																											
MAY 03																											
MAY 04																											
MAY 05																											
MAY 06																											
MAY 07																											
MAY 08																											
MAY 09																											
MAY 10																											
MAY 11																											
MAY 12																											
MAY 13																											
MAY 14																											
MAY 15																											
MAY 16																											
MAY 17																											
MAY 18																											

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.20	0.24	0.25	0.26	0.28	0.31	0.47	0.51	0.55	0.56	0.56	0.56
Ended: Date	04	04	04	04	04	04	04	04	04	04	04	04
Ended: Time	1952	1953	1955	2000	2011	2026	1955	2011	2029	2029	2029	2029

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

May 2018: Westford

Hour	MAY 19									MAY 20									MAY 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	30.31	0.00	43	35	75	05	0	0	0	29.84	0.00	55	52	92	20	9	23	0	30.03	0.00	49	42	79	28	0	0
03	0	30.30	0.00	44	36	74	21	0	6	0	29.77	0.00	57	54	92	20	3	14	0	30.07	0.00	45	41	86	24	0	0
06	26	30.30	0.00	41	37	85	16	1	4	14	29.74	0.00	58	56	95	21	4	20	18	30.09	0.00	43	40	90	22	0	0
09	396	30.26	0.00	59	39	46	22	0	9	32	29.81	0.08	58	56	96	26	0	9	559	30.13	0.00	60	43	52	26	1	10
12	352	30.18	0.00	63	27	25	18	0	13	371	29.85	0.00	58	57	95	35	0	0	863	30.09	0.00	69	46	43	19	0	13
15	132	30.11	0.10	53	45	75	20	2	11	937	29.91	0.00	63	58	83	31	2	12	705	30.04	0.00	73	44	35	30	5	14
18	51	30.00	0.00	49	47	93	20	5	13	172	29.94	0.00	61	52	72	30	0	9	334	30.03	0.00	75	49	39	30	0	6
21	0	29.90	0.00	50	48	95	22	5	20	0	30.00	0.00	53	48	82	28	0	9	0	30.06	0.00	59	47	63	32	0	0
MAY 22									MAY 23									MAY 24									
00	0	30.09	0.00	56	46	68	28	0	0	0	29.82	0.00	54	53	96	22	2	13	0	29.96	0.00	49	43	80	32	0	0
03	0	30.09	0.00	50	46	84	28	0	0	0	29.83	0.00	53	52	96	21	0	0	0	29.99	0.00	49	34	56	33	0	0
06	25	30.08	0.00	53	48	83	28	0	0	26	29.86	0.00	53	52	96	21	0	0	21	30.06	0.00	47	38	69	02	0	0
09	267	30.05	0.00	61	50	68	22	3	10	547	29.87	0.00	61	57	87	23	0	7	214	30.12	0.00	54	40	59	32	0	2
12	204	30.02	0.00	66	50	56	21	6	18	865	29.86	0.00	69	58	70	29	3	14	860	30.11	0.00	62	32	32	29	0	7
15	134	29.98	0.00	59	55	88	19	0	0	726	29.87	0.00	72	57	59	31	0	6	763	30.04	0.00	69	34	28	26	1	8
18	32	29.89	0.00	55	54	94	18	1	8	232	29.87	0.00	71	50	48	29	1	11	251	29.98	0.00	71	39	31	27	0	1
21	0	29.83	0.00	55	53	95	21	5	12	0	29.92	0.00	58	40	52	32	0	0	0	29.94	0.00	52	43	71	06	0	0
MAY 25									MAY 26									MAY 27									
00	0	29.90	0.00	56	43	63	22	0	5	0	29.66	0.00	60	58	95	21	0	0	0	29.92	0.00	57	56	96	04	0	0
03	0	29.85	0.00	59	45	59	20	2	11	0	29.63	0.00	62	57	83	22	0	6	0	29.94	0.00	52	51	96	04	0	0
06	42	29.84	0.00	59	47	66	20	2	11	18	29.65	0.00	61	58	92	21	0	0	30	29.97	0.00	57	53	86	16	0	7
09	564	29.81	0.00	70	55	58	21	4	14	197	29.69	0.00	67	63	87	20	0	0	376	30.02	0.00	63	52	69	18	4	16
12	294	29.74	0.00	77	56	48	24	3	15	206	29.75	0.42	64	61	91	11	0	1	529	30.05	0.00	66	54	67	14	0	13
15	121	29.70	0.00	71	59	64	28	6	15	271	29.80	0.00	63	61	94	02	2	8	169	30.04	0.00	61	50	68	20	3	15
18	72	29.66	0.00	74	56	54	25	2	12	149	29.83	0.00	65	62	89	03	0	1	54	30.03	0.00	57	48	71	14	0	9
21	0	29.69	0.00	63	57	81	28	3	11	0	29.88	0.00	59	58	95	04	0	0	0	30.04	0.00	56	42	60	26	0	6
MAY 28									MAY 29									MAY 30									
00	0	30.01	0.00	53	43	67	21	1	11	0	29.86	0.00	63	60	91	23	3	9	0	30.05	0.00	54	46	75	04	0	0
03	0	29.98	0.00	52	43	70	19	2	11	0	29.88	0.00	62	60	94	22	0	6	0	30.07	0.00	46	42	88	04	0	0
06	37	29.97	0.00	53	44	72	19	1	11	23	29.92	0.00	60	59	96	21	0	0	23	30.09	0.00	45	43	92	04	0	0
09	246	29.96	0.00	57	50	78	21	2	14	763	29.97	0.00	65	63	94	01	0	6	566	30.08	0.00	69	52	56	23	0	5
12	608	29.92	0.00	67	58	74	23	4	16	234	30.02	0.00	71	61	70	30	4	13	877	30.05	0.00	78	52	40	18	1	9
15	373	29.87	0.00	71	61	73	21	3	18	791	30.00	0.00	76	60	59	32	3	10	782	29.99	0.00	84	63	49	21	1	19
18	309	29.86	0.00	72	62	72	22	5	10	216	30.00	0.00	74	54	50	01	0	1	199	29.94	0.00	80	60	51	19	3	15
21	0	29.84	0.00	65	61	87	20	5	11	0	30.04	0.00	56	50	79	32	0	0	0	29.94	0.00	70	59	68	22	0	0
MAY 31																											
00	0	29.96	0.00	71	57	62	22	3	20																		
03	0	29.95	0.00	67	50	53	22	1	16																		
06	44	29.94	0.00	64	43	45	21	3	22																		
09	570	29.92	0.00	72	55	57	24	0	16																		
12	849	29.88	0.00	77	63	63	22	4	26																		
15	364	29.83	0.00	77	66	70	22	4	20																		
18	165	29.80	0.00	75	65	72	21	4	18																		
21	0	29.78	0.00	71	64	79	21	5	15																		

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

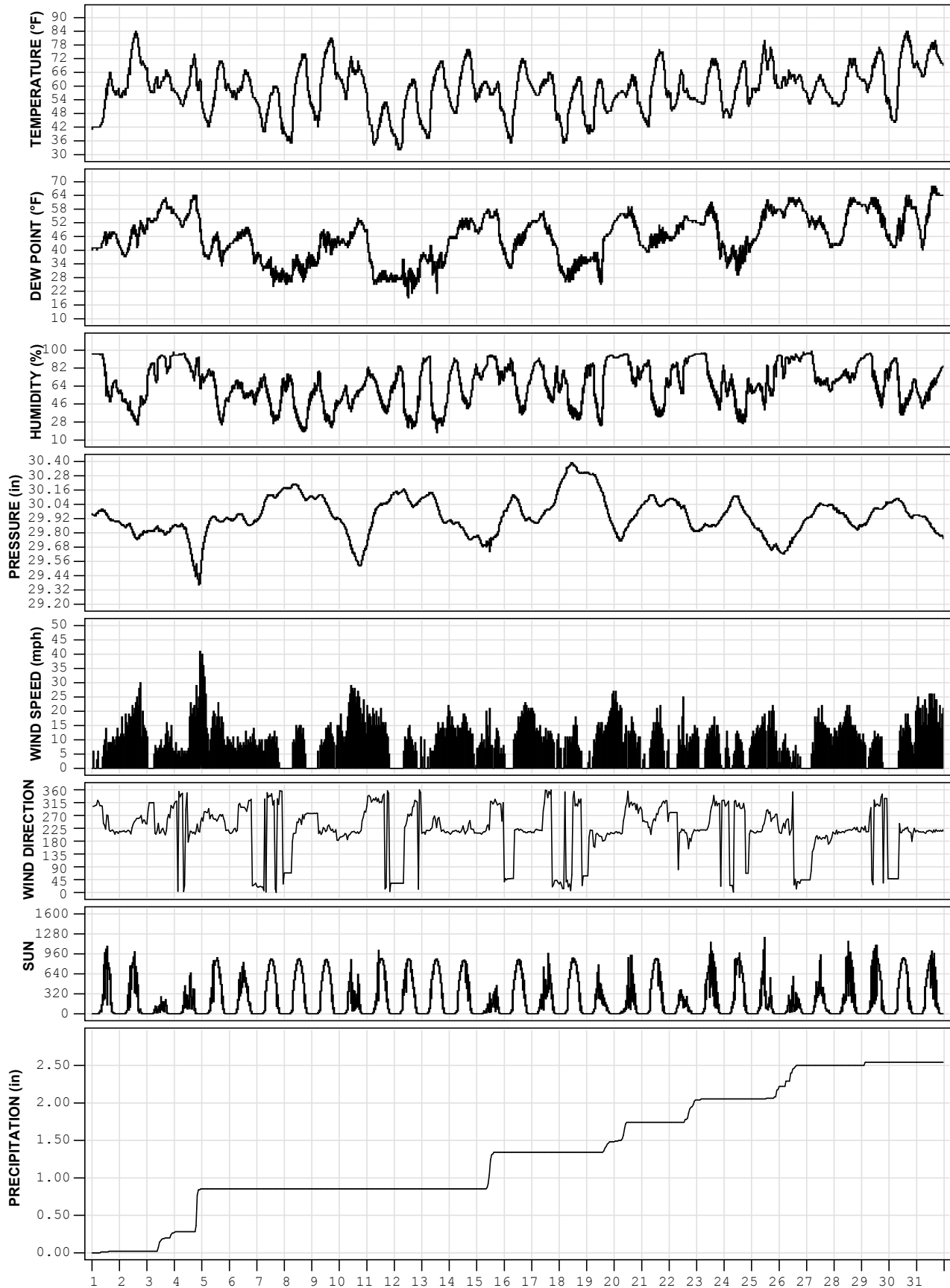
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
00	0	29.944	54	45	73	2.0	23	1.5
03	0	29.951	51	43	77	1.1	24	0.8
06	21	29.971	49	43	80	1.4	23	1.0
09	384	29.990	59	47	66	2.1	24	1.6
12	606	29.969	65	47	57	2.1	23	1.6
15	546	29.933	68	49	55	2.2	25	1.5
18	194	29.906	67	48	53	2.2	24	1.8
21	0	29.918	58	47	69	1.7	24	1.3

HOURLY PRECIPITATION (Water Equivalent) May 2018: Westford

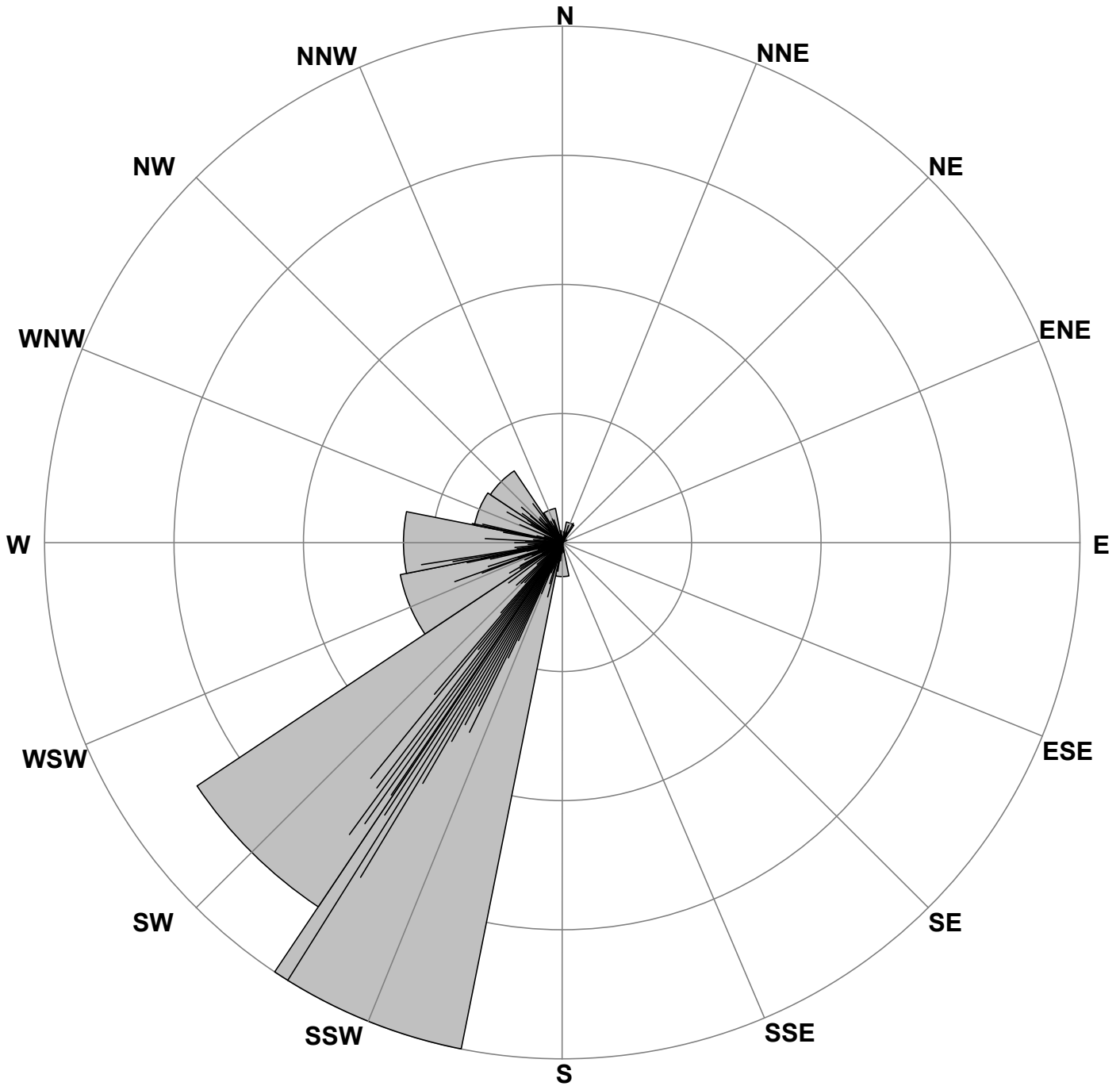
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01							0.01								0.01									01	
02																								02	
03																								03	
04	0.01								0.05	0.07	0.02	0.02	0.01		0.01					0.08	0.41	0.04	0.02	04	
05																							0.01	0.01	05
06																								06	
07																								07	
08																								08	
09																								09	
10																								10	
11																								11	
12																								12	
13																								13	
14																								14	
15								0.02	0.05	0.12	0.20	0.07	0.01	0.02										15	
16																								16	
17																								17	
18																								18	
19															0.02	0.04	0.02	0.03	0.01	0.02				19	
20	0.01			0.01			0.02	0.05	0.09	0.06	0.02													20	
21																								21	
22													0.04			0.02	0.06	0.06	0.02	0.01	0.03	0.04	0.02	22	
23				0.01																				23	
24																								24	
25												0.01							0.02		0.09	0.01	0.04	25	
26						0.07				0.11		0.05	0.01	0.02	0.02									26	
27																								27	
28																								28	
29			0.04																					29	
30																								30	
31																								31	
Sum	0.02	0.00	0.04	0.02	0.00	0.07	0.02	0.06	0.11	0.27	0.21	0.27	0.11	0.08	0.07	0.07	0.08	0.09	0.11	0.46	0.14	0.15	0.04	0.05	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 May 2018: Westford



**Wind Rose: May 2018
Westford**



**Maximum direction of wind: 81.0 miles from 212°
Maximum sector of wind: 449.3 miles from SSW
1355.2 total miles of wind**