

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

April 2020

Station: Westford

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

Date	Temperature						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	Humidity 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
	1	2	3	4A	4B	5				6	7	8	10	11	12	13	14	15	16	17		18	19	20	21	22	23
1	47.1	23.0	35.0	34.4	27	74	30	0	.....	0	0.00	0.0	29.94	29.82	29.868	1.9	1.7	307	18	NNW	8	260	181
2	38.5	31.5	35.0	34.8	32	90	29	0	.....	0	0.32	T	29.83	29.69	29.776	2.6	2.6	321	19	NNW	9	298	58
3	51.3	36.9	44.1	44.2	41	89	21	0	.....	0	0.14	0.0	29.95	29.66	29.795	2.0	2.0	341	20	N	10	346	80
4	55.2	33.5	44.4	43.3	38	83	20	0	.....	0	0.02	0.0	30.02	29.94	29.980	0.5	0.5	310	11	W	8	268	130
5	52.3	35.9	44.1	44.6	39	82	21	0	.....	0	0.02	0.0	29.99	29.90	29.958	1.7	1.2	229	13	SSE	8	291	57
6	54.5	31.7	43.1	42.9	26	56	21	0	.....	0	0.00	0.0	30.06	29.86	29.956	3.0	2.8	260	19	W	12	283	243
7	56.8	30.8	43.8	44.2	23	46	21	0	.....	0	0.00	0.0	29.88	29.64	29.792	2.1	2.0	267	18	W	11	275	248
8	52.3	29.2	40.8	41.2	24	52	24	0	.....	0	0.00	0.0	29.64	29.54	29.576	1.5	1.3	288	16	W	10	272	173
9	48.0	34.3	41.1	39.9	32	75	24	0	.....	0	0.38	0.0	29.57	29.01	29.238	2.8	2.0	225	27	W	17	254	33
10	37.0	32.1	34.5	34.1	30	86	30	0	.....	0	0.19	T	29.55	29.05	29.222	5.4	4.6	264	24	WSW	15	269	65
11	43.5	29.8	36.6	34.7	24	66	28	0	.....	0	0.00	T	29.95	29.55	29.745	6.7	6.5	260	23	W	14	261	123
12	56.5	28.9	42.7	43.4	28	56	22	0	.....	0	0.00	0.0	30.07	29.96	30.019	4.9	4.8	172	24	S	13	175	159
13	60.7	43.7	52.2*	53.9	47	80	12	0	.....	0	0.31	0.0	29.98	29.23	29.557	6.4	5.2	181	37	SW	24	221	46
14	46.2	36.2	41.2	40.4	21	48	24	0	.....	0	T	T	29.97	29.68	29.901	6.8	6.6	234	34	WSW	21	224	187
15	41.6	28.1	34.8	35.0	17	51	30	0	.....	0	T	T	29.93	29.80	29.865	5.4	5.2	242	24	W	14	272	202
16	40.6	22.8	31.7	31.6	21	66	33	0	.....	0	0.01	T	30.05	29.89	29.965	4.1	4.0	248	26	WSW	13	248	182
17	41.6	27.0	34.3	33.2	22	64	30	0	.....	0	T	T	30.10	29.94	30.029	4.6	4.5	233	20	WSW	12	255	139
18	49.2	24.3	36.8	36.7	22	58	28	0	.....	0	0.00	0.0	29.94	29.74	29.819	1.3	1.1	272	15	W	10	253	197
19	57.1	29.5	43.3	43.3	30	60	21	0	.....	0	0.00	0.0	29.78	29.52	29.629	6.2	5.2	197	26	SSE	15	171	175
20	45.8	25.9	35.8	35.5	19	53	29	0	.....	0	0.00	0.0	29.79	29.62	29.697	3.2	3.1	298	20	W	12	281	283
21	51.2	25.3	38.3	36.9	24	60	27	0	.....	0	0.13	0.0	29.63	29.28	29.432	5.3	4.4	209	36	S	19	190	86
22	34.6	20.7*	27.6*	27.9	16	61	37	0	.....	0	0.01	0.6	29.89	29.50	29.658	8.1	7.9	262	31	W	18	251	84
23	48.5	24.0	36.3	34.5	7	33	28	0	.....	0	0.00	0.0	29.99	29.89	29.950	4.2	4.0	262	22	W	12	261	294
24	57.1	25.6	41.3	41.2	16	38	23	0	.....	0	0.00	0.0	29.95	29.76	29.846	1.8	1.6	309	18	W	10	270	243
25	60.8	34.9	47.9	48.3	17	31	17	0	.....	0	0.00	0.0	30.06	29.87	30.001	1.3	1.2	291	13	W	9	261	293
26	56.6	37.8	47.2	46.6	29	53	17	0	.....	0	0.16	0.0	30.06	29.94	30.008	1.6	1.4	2	17	N	9	356	116
27	44.2	36.6	40.4	39.8	35	83	24	0	.....	0	0.40	0.0	30.09	29.94	30.014	2.6	2.6	348	20	N	12	11	92
28	55.7	32.6	44.1	43.6	28	57	20	0	.....	0	0.00	0.0	30.15	30.05	30.085	1.8	1.8	294	15	W	10	279	282
29	66.0*	29.4	47.7	49.5	29	51	17	0	.....	0	0.00	0.0	30.21	30.09	30.152	3.0	2.9	149	22	SSE	11	161	236
30	50.1	44.7	47.4	47.9	39	71	17	0	.....	0	0.04	0.0	30.11	29.79	29.986	6.4	6.4	150	29	SSE	14	147	49
Sum	Sum	-----	-----	---	----	Ttl	Ttl						Total	Total	For the month:						---			
1501	927					725	0		Number of Days				2.13	0.6	30.21	29.01	29.817	3.6	2.2	242	37	SW	24	221
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip				Season Ttl	Date	Date	-----	----	---		Date	Date	Avg		
50.0	30.9	40.5	40.2	27	62.4	----	----		≥0.1 inch	13			11.90	81.7	29	9	-----	----	---		13	13	158	
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			7487	0	Thunder	0	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	0.56	26-27	0.6	22						0							
0	0	19	0	----	----	Clear	6	Partly Cloudy			7	Cloudy			17									

- 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

April 2020: 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						Direction	Speed	Gust			
APR 01									APR 02									APR 03															
00	0	29.94	0.00	30	20	67	34	0	0	0	0	29.82	0.00	34	29	84	31	1	8	0	0	29.69	0.04	37	36	96	31	1	5				
03	0	29.90	0.00	27	21	81	34	0	0	0	0	29.80	0.00	32	29	87	32	1	9	0	0	29.66	0.00	38	37	97	02	3	8				
06	0	29.88	0.00	25	21	83	34	0	0	0	0	29.80	0.00	32	29	89	33	2	10	0	0	29.66	0.00	39	38	97	34	2	13				
09	369	29.89	0.00	34	27	74	34	0	2	141	29.81	0.00	34	31	88	32	4	11	234	29.75	0.00	44	43	97	33	4	11						
12	682	29.87	0.00	40	30	65	27	4	11	306	29.77	0.00	38	33	83	32	5	15	211	29.79	0.00	48	43	81	33	7	15						
15	555	29.83	0.00	46	32	57	29	5	17	113	29.75	0.00	36	34	93	30	4	12	195	29.82	0.00	51	43	74	34	3	14						
18	46	29.84	0.00	38	31	73	33	2	14	21	29.75	0.00	36	35	95	30	6	12	39	29.89	0.00	49	44	84	32	0	0						
21	0	29.86	0.00	36	30	79	34	1	9	0	29.76	0.10	36	35	95	33	2	13	0	29.94	0.00	45	42	88	29	0	5						
APR 04									APR 05									APR 06															
00	0	29.95	0.00	40	38	91	00	0	3	0	29.99	0.00	37	33	87	30	0	0	0	0	29.99	0.00	41	38	86	29	3	9					
03	0	29.96	0.00	39	36	89	00	0	0	0	29.98	0.00	39	36	89	30	0	0	0	0	29.98	0.00	36	33	91	29	4	8					
06	0	29.98	0.00	34	32	93	00	0	0	0	29.97	0.00	39	36	89	30	0	0	0	0	30.02	0.00	32	30	89	29	0	1					
09	155	30.01	0.00	41	38	92	00	0	0	67	29.98	0.00	46	37	71	20	0	5	403	30.06	0.00	40	29	66	26	2	6						
12	373	30.01	0.00	45	43	93	29	0	5	151	29.95	0.00	52	40	64	16	4	8	773	30.00	0.00	47	18	32	23	6	12						
15	533	29.97	0.00	54	43	68	34	3	8	60	29.91	0.00	49	43	81	22	2	10	691	29.92	0.00	53	18	25	29	4	12						
18	162	29.97	0.00	53	40	63	00	2	9	23	29.92	0.00	48	44	86	26	1	10	95	29.88	0.00	50	21	31	25	7	15						
21	0	29.98	0.00	41	36	81	30	0	0	0	29.97	0.00	45	43	93	28	1	9	0	29.88	0.00	47	24	40	23	2	11						
APR 07									APR 08									APR 09															
00	0	29.87	0.00	40	25	54	21	3	10	0	29.64	0.00	38	25	58	35	0	0	0	0	29.57	0.00	38	27	65	03	0	0					
03	0	29.85	0.00	38	24	58	23	0	2	0	29.58	0.00	35	24	63	35	0	0	0	0	29.47	0.00	37	22	54	03	0	0					
06	0	29.85	0.00	31	24	74	24	0	0	0	29.54	0.00	31	22	69	03	0	0	0	0	29.41	0.00	40	25	55	14	1	7					
09	404	29.87	0.00	43	26	51	25	3	8	429	29.58	0.00	41	26	55	30	1	5	90	29.27	0.00	47	35	61	13	2	10						
12	777	29.83	0.00	52	21	30	30	2	11	394	29.56	0.00	50	28	43	28	4	10	60	29.12	0.09	42	39	89	11	0	2						
15	694	29.75	0.00	56	21	25	26	10	15	701	29.57	0.00	52	21	30	28	6	11	86	29.02	0.04	44	42	93	15	2	10						
18	216	29.70	0.00	55	20	25	29	3	9	44	29.58	0.00	45	20	36	35	2	6	18	29.12	0.00	37	33	88	27	6	19						
21	0	29.70	0.00	42	22	44	35	0	1	0	29.61	0.00	41	25	54	03	0	0	0	29.15	0.00	35	31	85	26	2	5						
APR 10									APR 11									APR 12															
00	0	29.11	0.00	36	30	81	22	5	14	0	29.55	0.00	34	29	84	28	9	16	0	0	29.96	0.00	32	25	76	17	4	9					
03	0	29.07	0.00	35	29	81	24	7	15	0	29.60	0.00	33	28	82	28	3	10	0	0	29.97	0.00	30	23	77	17	5	9					
06	0	29.05	0.00	34	28	77	23	9	13	0	29.66	0.00	30	24	78	25	7	18	0	0	30.02	0.00	31	23	71	17	6	13					
09	84	29.08	0.00	32	30	89	27	6	17	120	29.73	0.00	30	23	73	25	9	17	429	30.06	0.00	41	27	57	16	9	17						
12	100	29.14	0.04	35	32	90	31	3	15	246	29.76	0.00	34	23	63	24	10	15	710	30.06	0.00	52	30	43	17	9	17						
15	107	29.26	0.00	33	32	94	31	3	14	346	29.77	0.00	40	22	49	26	6	16	178	30.04	0.00	53	31	42	16	5	18						
18	90	29.37	0.00	37	34	89	30	1	12	265	29.81	0.00	43	22	43	29	2	16	47	30.04	0.00	52	31	44	18	2	16						
21	0	29.49	0.00	35	32	89	25	9	16	0	29.89	0.00	37	25	62	24	4	8	0	30.01	0.00	51	31	46	15	4	7						
APR 13									APR 14									APR 15															
00	0	29.98	0.00	51	32	47	15	4	9	0	29.68	0.00	44	33	67	22	13	32	0	0	29.93	0.00	36	12	37	23	0	3					
03	0	29.88	0.00	52	38	58	12	1	9	0	29.82	0.00	39	31	71	24	9	19	0	0	29.88	0.00	36	20	52	23	5	13					
06	0	29.77	0.00	49	46	89	12	5	11	0	29.88	0.00	37	23	56	21	5	13	0	0	29.87	0.00	30	23	76	17	4	10					
10	81	29.58	0.04	51	48	88	13	8	14	127	29.93	0.00	38	26	63	22	10	22	457	29.90	0.00	35	18	49	22	7	17						
12	471	29.43	0.00	55	53	91	15	7	18	831	29.96	0.00	43	21	42	23	8	18	1046	29.85	0.00	40	12	31	23	9	17						
15	105	29.30	0.00	58	55	90	14	7	16	628	29.94	0.00	44	18	34	23	8	14	315	29.82	0.00	40	13	33	28	8	21						
18	42	29.23	0.00	61	57	88	17	7	25	211	29.91	0.00	44	16	32	25	6	11	345	29.82	0.00	37	18	47	25	10	18						
21	0	29.42	0.00	56	51	82	23	14	23	0	29.94	0.00	39	16	38	23	6	10	0	29.87	0.00	32	21	63	23	3	10						
APR 16									APR 17									APR 18															
00	0	29.90	0.00	29	25	85	25	4	19	0	30.05	0.00	28	23	79	21	4	8	0	0	29.94	0.00	29	24	80	23	0	0					
03	0	29.90	0.00	28	23	84	23	0	5	0	30.06	0.00	29	22	75	23	6	16	0	0	29.88	0.00	28	23	83	32	0	0					
06	0	29.94	0.00	24	21	86	25	0	0	0	30.07	0.00	28	19	69	23	6	11	0	0	29.84	0.00	25	21	88	32	0	0					
09	455	29.98	0.00	33	24	69	23	2	7	526	30.09	0.00	33	22	63	24	8	15	431	29.86	0.00	36	26	65	34	0	2						
12	220	29.98	0.00	33	22	64	22	3	13	492	30.08	0.00	36	21	55	22	9	18	376	29.83	0.00	43	22	44	27	2	10						
15	921	29.96	0.00	40	22	47	27	6	13	364	30.00	0.00	42	20	41	24	7	16	575	29.77	0.00	47	21	36	25	2	7						
18	83	29.97	0.00	37	16	41	26	7	24	109	29.98	0.00	37	24	59	22	6	12	232	29.75	0.00	48	19	31	29	2	8						
21	0	30.02	0.00	32	20	60	23	7	13	0	29.96	0.00	33	24	68	23	1	4	0	29.77	0.00	34	20	56	35	0	0						

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.04	0.07	0.08	0.09	0.10	0.11	0.13	0.16	0.18	0.20	0.23	0.27
Ended: Date	21	21	21	13	13	09	09	09	09	09	09	27
Ended: Time	1416	1421	1423	1900	1900	1142	1155	1218	1235	1253	1324	0341

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

April 2020: Westford

Table with columns for Hour, Sunshine, Pressure, Rainfall rate, Temperature, Dew Point, Humidity, Direction, Speed, Gust. Data is organized by date from APR 19 to APR 30.

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

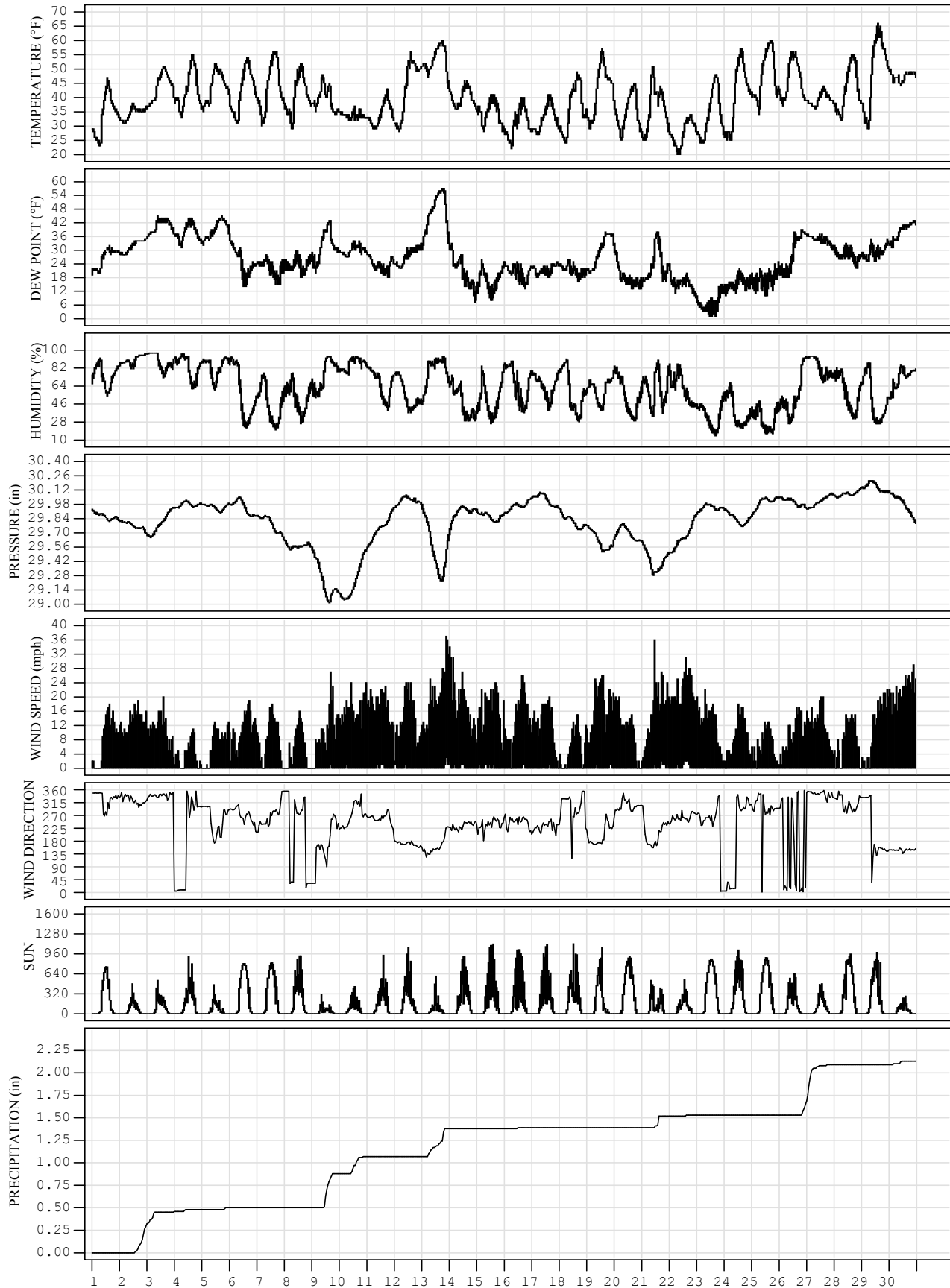
Table with columns for Hour, Sunshine, Pressure, Temperature, Dew Point, Humidity, Wind Speed, Direction, Speed. It provides summary data for each hour from 00 to 21.

HOURLY PRECIPITATION (Water Equivalent) April 2020: Westford

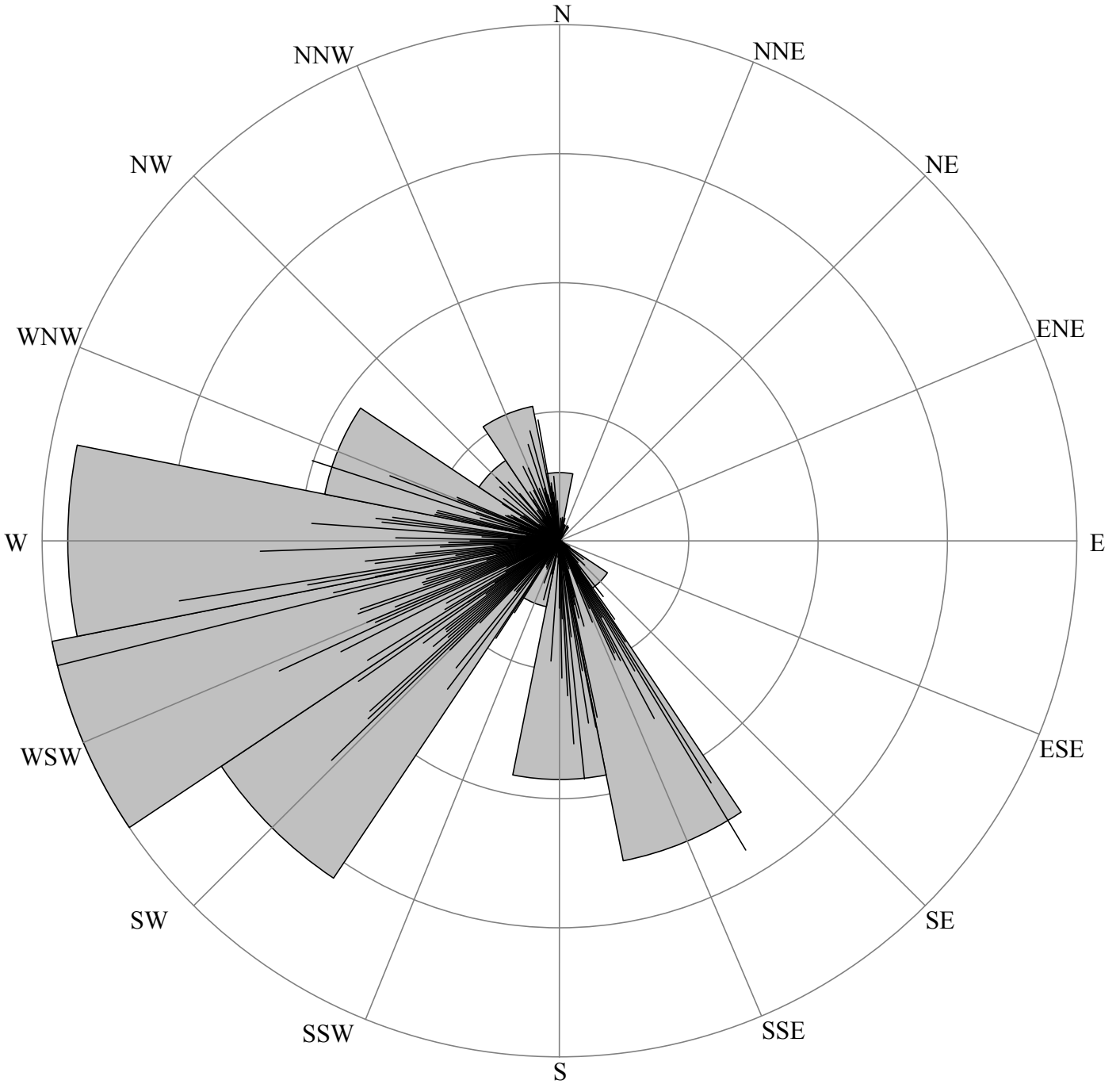
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01																								01	
02														0.01	0.01	0.02	0.03	0.02	0.02	0.04	0.06	0.05	0.03	0.03	02
03	0.01	0.01	0.03		0.02	0.05	0.01																0.01	0.03	03
04									0.01	0.01															04
05																			0.01	0.01					05
06																									06
07																									07
08																									08
09											0.01	0.12	0.07	0.05	0.04	0.03	0.03	0.03							09
10											0.02	0.04	0.03		0.04	0.02	0.03				0.01				10
11																									11
12																									12
13					0.03	0.02	0.02	0.01	0.02		0.01	0.01		0.02	0.01	0.02		0.10	0.04						13
14																									14
15																									15
16											0.01														16
17																									17
18																									18
19																									19
20																									20
21											0.02		0.01	0.10											21
22														0.01											22
23																									23
24																									24
25																									25
26																									26
27	0.07	0.10	0.08	0.07	0.03	0.01		0.02		0.01						0.01			0.02	0.03	0.03	0.04	0.04	0.04	27
28																									28
29																									29
30				0.01						0.02	0.01														30
Sum	0.08	0.11	0.11	0.08	0.05	0.09	0.03	0.02	0.04	0.05	0.05	0.20	0.11	0.07	0.22	0.08	0.11	0.06	0.12	0.11	0.11	0.08	0.07	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
April 2020: Westford



Wind Rose: April 2020
Westford



Maximum direction of wind: 71.6 miles from 256°
Maximum sector of wind: 508.3 miles from WSW
2622.5 total miles of wind