

# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary

### May 2021

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	49.2	31.8	40.5*	39.6	30	72	24	0	.....	0	0.17	T	29.87	29.51	29.757	4.6	4.2	258	22	WSW	13	254	239
2	61.8	39.6	50.7	50.8	39	64	14	0	.....	0	0.00	0.0	29.81	29.57	29.656	3.8	2.7	234	21	S	14	260	234
3	49.3	41.1	45.2	45.0	36	71	20	0	.....	0	0.04	0.0	29.92	29.79	29.858	0.2	0.2	357	11	W	5	282	50
4	56.7	41.7	49.2	49.8	45	83	15	0	.....	0	0.03	0.0	29.80	29.67	29.738	1.2	1.1	158	15	SSE	8	164	76
5	55.8	45.4	50.6	51.1	49	94	14	0	.....	0	0.90	0.0	29.74	29.61	29.654	2.5	1.3	207	17	W	10	268	47
6	56.5	39.7	48.1	46.9	35	66	16	0	.....	0	0.02	0.0	29.95	29.74	29.861	5.3	5.2	275	26	W	13	264	281
7	63.3	31.1	47.2	48.8	32	57	18	0	.....	0	0.00	0.0	29.96	29.82	29.900	0.9	0.5	352	14	NW	8	3	259
8	56.9	43.0	50.0	51.4	37	59	15	0	.....	0	0.00	0.0	29.86	29.78	29.815	1.3	0.9	260	15	W	9	272	136
9	61.2	37.9	49.6	49.5	38	68	15	0	.....	0	0.00	0.0	29.92	29.82	29.871	1.8	1.6	242	15	W	10	253	225
10	62.8	44.0	53.4	52.2	40	65	11	0	.....	0	0.07	0.0	29.90	29.77	29.827	2.2	2.0	264	16	W	11	238	241
11	55.3	39.2	47.3	45.6	37	74	18	0	.....	0	0.19	0.0	29.93	29.85	29.884	4.4	4.2	233	28	W	14	254	185
12	61.5	38.8	50.1	49.0	39	73	14	0	.....	0	0.12	0.0	30.14	29.93	30.048	2.6	2.4	262	22	W	11	263	222
13	68.5	36.2	52.4	54.4	36	53	12	0	.....	0	0.00	0.0	30.19	30.08	30.133	1.7	1.6	279	20	W	10	278	314
14	73.7	41.3	57.5	59.2	40	52	7	0	.....	0	0.00	0.0	30.14	30.06	30.107	2.5	2.0	243	18	WSW	12	259	296
15	76.9	43.5	60.2	61.3	37	42	4	0	.....	0	0.00	0.0	30.16	30.08	30.120	2.5	2.0	221	17	SSE	11	271	286
16	72.7	45.2	58.9	59.2	42	57	6	0	.....	0	T	0.0	30.19	30.12	30.157	2.0	1.7	260	25	W	14	248	304
17	76.5	43.1	59.8	60.7	45	62	5	0	.....	0	0.01	0.0	30.25	30.13	30.189	1.0	0.9	248	13	WSW	8	275	296
18	76.0	52.3	64.1	64.1	49	58	1	0	.....	0	0.00	0.0	30.23	30.11	30.170	2.1	2.0	262	16	W	10	250	282
19	80.1	48.0	64.0	64.6	47	57	1	0	.....	0	0.00	0.0	30.31	30.17	30.258	0.7	0.6	285	12	W	7	276	288
20	89.0*	52.3	70.6	70.1	55	62	0	6	.....	0	0.00	0.0	30.37	30.28	30.322	1.1	1.1	185	14	S	8	185	289
21	88.4	64.3	76.4*	74.8	59	59	0	11	.....	0	0.00	0.0	30.37	30.19	30.296	2.0	1.8	184	15	S	8	175	288
22	82.5	64.1	73.3	72.3	62	72	0	9	.....	0	0.07	0.0	30.19	29.90	30.036	1.6	1.4	218	13	WNW	8	252	189
23	70.6	43.0	56.8	61.0	56	84	8	0	.....	0	0.14	0.0	30.15	29.79	29.914	2.4	1.4	281	24	NW	13	280	96
24	70.6	38.2	54.4	54.0	42	68	10	0	.....	0	0.00	0.0	30.27	30.09	30.174	1.0	0.9	219	13	S	8	260	323
25	77.0	46.0	61.5	64.1	56	75	3	0	.....	0	0.00	0.0	30.09	29.87	29.987	4.4	4.4	178	23	SSE	13	168	223
26	82.5	64.8	73.7	72.0	64	77	0	9	..3.....	0	0.06	0.0	29.88	29.64	29.757	3.8	3.7	184	23	SSE	11	180	192
27	65.1	42.4	53.8	55.2	44	67	11	0	.....	0	0.00	0.0	30.11	29.70	29.929	1.9	1.7	285	18	W	10	282	241
28	50.8	31.6	41.2	43.2	32	67	23	0	.....	0	0.00	0.0	30.18	30.06	30.118	0.5	0.4	312	13	NNW	6	267	182
29	65.5	37.0	51.3	50.8	36	60	13	0	.....	0	0.00	0.0	30.19	30.04	30.103	0.9	0.8	22	14	N	8	346	268
30	58.4	36.8	47.6	48.2	41	80	17	0	.....	0	0.15	0.0	30.28	30.19	30.238	0.4	0.4	18	10	NNE	5	5	114
31	57.9	41.8	49.9	49.0	47	94	15	0	.....	0	0.11	0.0	30.21	30.10	30.149	0.2	0.1	268	13	W	6	270	75
Sum	Sum	-----	-----	---	----	Ttl	Ttl			Total	Total	For the month:										---	
2073	1345					330	35		Number of Days	2.08	T	30.37	29.51	30.001	2.0	1.3	241	28	W	14	254		
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip	Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg			
66.9	43.4	55.1	55.4	43	67.4	----	----		≥.01 inch	14	11.77	76.7	20	1	-----	----	---		11	11	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			7248	35	Thunder	1	Precipitation			Snow, Ice Plts										
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	0.90	5	T	1	0					-						
0	0	3	0	----	----	Clear	9	Partly Cloudy	10	Cloudy	12												

**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

## May 2021: 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
MAY 01																														
00	0	29.51	0.00	34	32	95	20	5	10	0	29.77	0.00	41	34	77	22	1	9	0	29.81	0.00	49	40	70	28	0	1			
03	0	29.62	0.00	36	35	96	29	6	10	0	29.64	0.00	40	35	83	17	0	2	0	29.84	0.00	47	38	69	28	0	0			
06	0	29.75	0.00	33	31	94	25	5	12	11	29.57	0.00	43	35	73	17	6	13	0	29.86	0.00	44	30	58	35	1	4			
09	72	29.84	0.00	32	27	80	26	9	15	418	29.58	0.00	53	40	61	18	5	11	146	29.90	0.00	46	29	51	35	0	2			
12	877	29.86	0.00	42	33	70	28	4	13	555	29.60	0.00	56	43	63	25	3	10	90	29.91	0.00	46	32	58	33	0	1			
15	807	29.82	0.00	47	29	49	26	5	11	882	29.64	0.00	59	40	49	25	13	19	113	29.89	0.00	43	39	86	05	1	5			
18	144	29.77	0.00	47	29	48	26	5	12	54	29.69	0.00	60	41	50	29	4	11	60	29.85	0.00	45	38	78	03	0	0			
21	0	29.75	0.00	43	32	66	17	2	7	0	29.76	0.00	50	39	65	28	3	8	0	29.83	0.00	45	39	82	02	3	5			
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	1.01	1.01	1.01	1.02	1.04	1.08	1.10	1.10	1.10	1.10	1.10	1.10
Ended: Date	12	12	12	12	12	12	12	12	12	12	12	12
Ended: Time	0300	0300	0300	0300	0300	0300	0300	0300	0300	0300	0300	0300

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 2021: 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	30.17	0.00	58	46	63	24	0	3	0	30.30	0.00	56	50	80	02	0	0	0	30.32	0.00	65	57	74	28	0	0
03	0	30.18	0.00	54	45	74	29	0	0	0	30.32	0.00	53	49	85	02	0	0	0	30.32	0.00	66	54	65	18	3	9
06	18	30.25	0.00	48	43	84	29	0	0	35	30.35	0.00	54	51	90	02	0	0	30	30.34	0.00	65	53	65	16	3	11
09	483	30.30	0.00	63	51	66	29	0	0	417	30.36	0.00	72	56	56	17	2	10	519	30.36	0.00	72	56	57	17	4	15
12	705	30.30	0.00	74	44	34	25	4	9	884	30.34	0.00	83	59	44	21	0	10	870	30.33	0.00	81	60	48	19	3	10
15	824	30.27	0.00	77	46	33	22	4	4	788	30.30	0.00	87	58	37	20	1	9	657	30.28	0.00	88	64	46	26	1	7
18	197	30.27	0.00	80	53	39	32	0	6	81	30.29	0.00	80	56	44	28	1	8	269	30.24	0.00	86	65	50	24	0	1
21	0	30.27	0.00	62	51	67	02	0	0	0	30.31	0.00	67	57	70	28	0	0	0	30.23	0.00	71	61	71	25	0	0
MAY 22									MAY 23									MAY 24									
00	0	30.19	0.00	69	61	76	16	0	4	0	29.90	0.00	66	64	94	17	1	6	0	30.15	0.00	43	40	89	05	0	0
03	0	30.14	0.00	65	57	76	19	2	4	0	29.85	0.00	65	64	94	23	1	5	0	30.16	0.00	38	37	95	05	0	0
06	14	30.11	0.00	67	59	77	18	2	4	33	29.81	0.00	66	63	89	21	3	10	16	30.21	0.00	39	37	93	07	0	1
09	243	30.10	0.00	71	62	74	17	2	6	79	29.80	0.00	68	63	85	25	5	12	563	30.26	0.00	57	44	63	16	1	4
12	599	30.05	0.00	79	64	59	19	3	7	46	29.84	0.17	61	59	94	32	1	11	914	30.24	0.00	63	45	52	23	3	8
15	988	29.98	0.00	82	66	59	24	2	8	290	29.94	0.00	57	52	82	31	3	12	849	30.17	0.00	68	42	38	23	2	6
18	174	29.94	0.00	77	64	65	23	1	6	390	29.98	0.00	62	49	63	31	2	17	380	30.11	0.00	70	44	40	23	1	5
21	0	29.92	0.00	72	63	74	26	1	10	0	30.07	0.00	52	45	77	33	0	0	0	30.11	0.00	53	45	75	17	0	0
MAY 25									MAY 26									MAY 27									
00	0	30.09	0.00	46	43	90	17	0	0	0	29.88	0.00	70	62	76	16	3	13	0	29.70	0.00	65	59	80	20	1	5
03	0	30.08	0.00	53	48	85	17	5	10	0	29.86	0.00	69	62	79	18	5	11	0	29.75	0.00	63	54	73	20	3	8
06	26	30.07	0.00	52	49	88	16	3	15	28	29.83	0.00	68	62	82	21	3	13	7	29.83	0.00	58	51	78	34	2	12
09	529	30.04	0.00	61	53	75	18	8	20	508	29.82	0.00	73	65	76	17	7	17	146	29.93	0.00	50	42	72	08	0	10
12	622	30.00	0.00	67	58	75	18	3	14	854	29.75	0.00	82	69	66	18	6	17	1030	30.00	0.00	55	44	67	25	8	14
15	181	29.94	0.00	72	60	66	16	5	16	916	29.67	0.00	78	71	79	16	4	12	856	29.98	0.00	61	44	54	26	2	16
18	169	29.89	0.00	77	64	64	15	3	14	95	29.64	0.00	73	64	74	17	6	23	394	29.99	0.00	58	41	53	26	1	14
21	0	29.89	0.00	71	62	73	17	4	12	0	29.67	0.00	70	61	71	21	3	10	0	30.04	0.00	44	36	72	29	0	4
MAY 28									MAY 29									MAY 30									
00	0	30.11	0.00	43	31	64	33	0	7	0	30.09	0.00	40	36	85	21	0	0	0	30.19	0.00	41	36	83	00	0	1
03	0	30.10	0.00	38	28	68	34	0	9	0	30.05	0.00	40	36	85	21	0	0	0	30.22	0.00	38	36	93	00	0	0
06	32	30.15	0.00	33	28	83	33	0	2	30	30.06	0.00	38	36	91	21	0	0	21	30.26	0.00	38	37	96	00	0	0
09	396	30.17	0.00	43	31	61	27	0	4	621	30.10	0.00	52	36	56	02	1	5	413	30.27	0.00	55	41	59	35	3	9
12	330	30.15	0.00	49	33	54	25	0	6	896	30.12	0.00	58	35	41	34	0	9	285	30.26	0.00	58	40	51	01	1	4
15	308	30.12	0.00	48	33	56	28	0	7	942	30.10	0.00	62	34	35	02	4	9	123	30.25	0.00	58	47	66	35	0	1
18	139	30.07	0.00	50	33	52	21	0	5	383	30.11	0.00	64	33	31	00	2	7	56	30.23	0.00	50	45	84	05	0	0
21	0	30.07	0.00	43	37	80	21	0	0	0	30.15	0.00	48	38	68	00	0	1	0	30.22	0.09	47	45	94	33	0	2
MAY 31																											
00	0	30.21	0.00	46	45	96	35	0	0																		
03	0	30.16	0.00	43	42	96	35	0	0																		
06	0	30.16	0.00	45	44	97	35	0	0																		
09	49	30.18	0.00	48	47	97	26	0	0																		
12	134	30.16	0.17	50	49	96	34	0	0																		
15	216	30.14	0.00	52	50	95	28	2	13																		
18	246	30.11	0.00	55	51	86	05	0	2																		
21	0	30.12	0.00	49	47	93	06	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

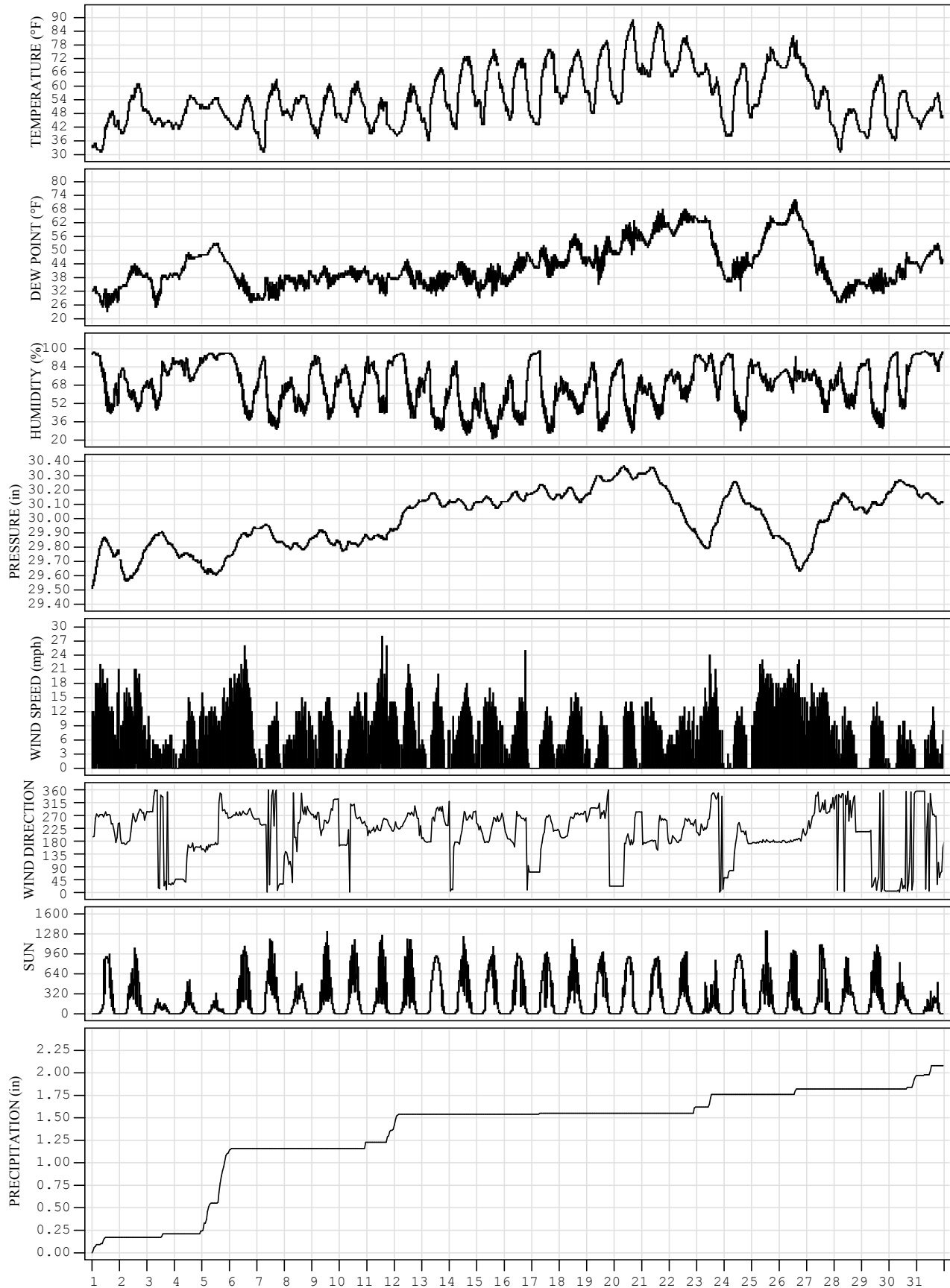
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
00	0	29.990	50	43	78	0.8	20	0.7
03	0	29.983	48	42	81	1.2	22	0.8
06	18	30.003	46	42	84	1.2	21	0.9
09	352	30.029	56	44	66	2.8	22	1.5
12	636	30.021	62	45	57	3.1	25	2.4
15	613	29.994	64	44	52	3.3	27	2.4
18	202	29.979	63	44	53	2.1	26	1.4
21	0	29.999	54	44	70	0.8	24	0.5

## HOURLY PRECIPITATION (Water Equivalent) May 2021: Westford

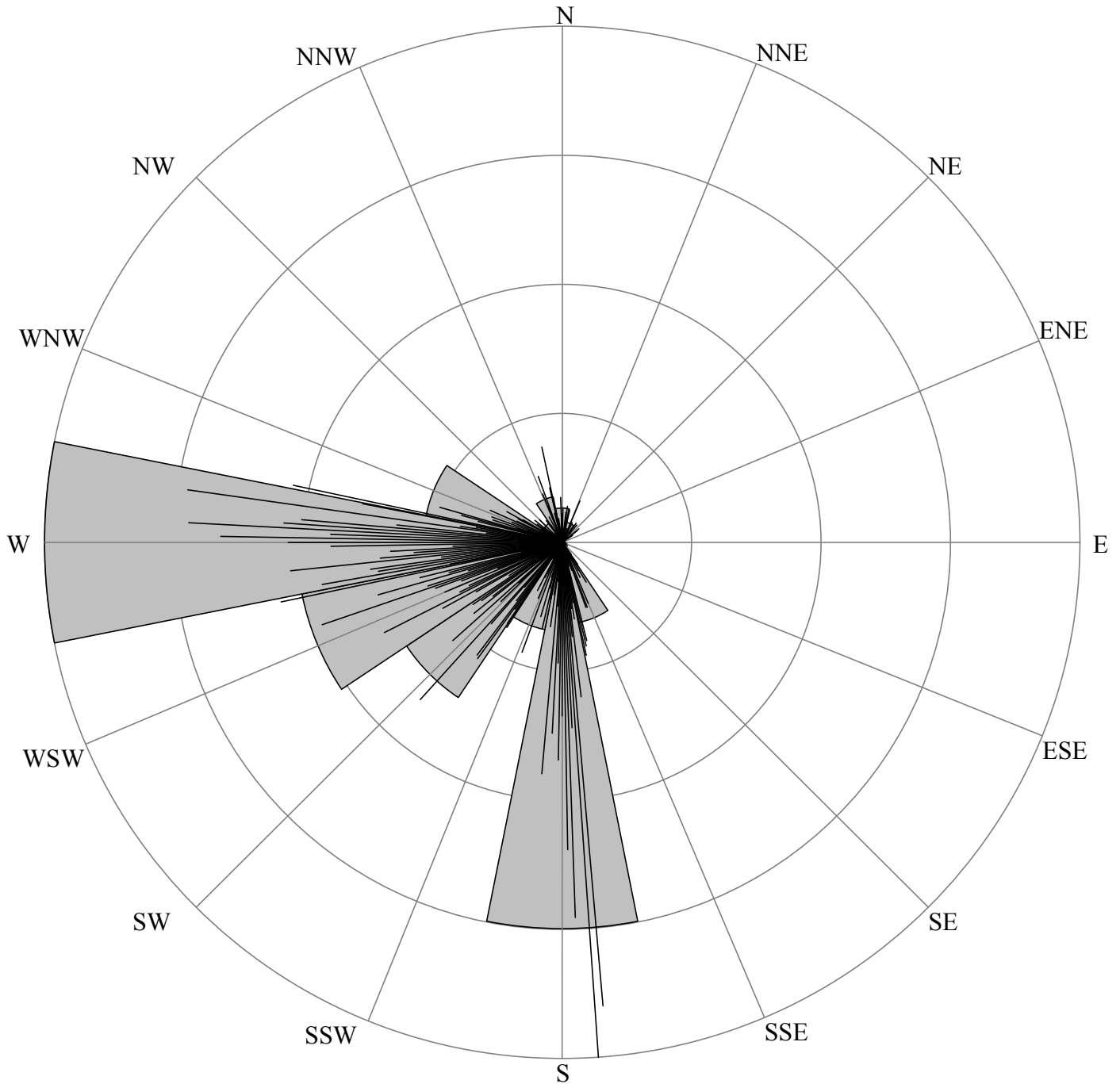
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01	0.02	0.04	0.01	0.02				0.01		0.04	0.02	0.01													01
02													0.01	0.03											02
03																									03
04																							0.03		04
05	0.01	0.08		0.04	0.09	0.05	0.03	0.01						0.01	0.11	0.10	0.08	0.06	0.05	0.05	0.07	0.02	0.01	0.03	05
06	0.01	0.01																							06
07																									07
08																									08
09																									09
10																							0.07		10
11																									11
12	0.06	0.04	0.01	0.01													0.06	0.01	0.05	0.01			0.01	0.05	12
13																									13
14																									14
15																									15
16																									16
17							0.01																		17
18																									18
19																									19
20																									20
21																									21
22																						0.06	0.01		22
23										0.03	0.07	0.04													23
24																									24
25																									25
26														0.04	0.02										26
27																									27
28																									28
29																									29
30															0.02						0.04	0.05	0.03	0.01	30
31							0.01					0.04	0.06												31
Sum	0.10	0.17	0.02	0.07	0.09	0.05	0.05	0.02	0.00	0.04	0.05	0.12	0.11	0.08	0.13	0.12	0.08	0.12	0.06	0.10	0.12	0.13	0.16	0.09	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 2021: Westford



Wind Rose: May 2021  
Westford



Maximum direction of wind: 47.4 miles from 176°  
Maximum sector of wind: 435.2 miles from W  
1524.2 total miles of wind