

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

February 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	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	26.9	-4.8	11.0	8.8	2	74	54	0	.....	8	0.00	0.0	30.28	30.00	30.181	0.3	0.3	19	10	N	6	352	103
2	24.3	19.2	21.8	22.0	20	91	43	0	.....	20	0.73	11.6	30.00	29.48	29.697	2.9	2.9	344	20	N	11	351	7
3	27.8	22.7	25.3	25.1	24	94	39	0	.....6	19	0.14	1.6	29.63	29.45	29.515	2.8	2.5	311	17	WNW	9	271	9
4	30.8	15.9	23.3	24.3	21	88	41	0	.....	17	0.01	T	29.82	29.63	29.762	1.7	1.7	287	12	W	8	280	33
5	37.2	16.1	26.7	29.1	26	88	38	0	.....	17	0.18	1.2	29.77	29.48	29.591	4.1	3.5	182	27	SSE	15	168	26
6	28.9	19.5	24.2	24.1	16	71	40	0	.....	16	T	T	30.12	29.66	29.846	5.5	5.1	219	24	W	15	241	54
7	29.1	8.0	18.6	19.7	14	79	46	0	.....	16	0.06	1.5	30.12	29.83	29.961	2.8	2.0	204	19	S	10	260	42
8	20.7	3.4	12.1	11.4	1	65	53	0	.....	15	T	0.2	30.39	30.03	30.284	2.5	2.3	266	20	W	12	275	120
9	22.9	4.0	13.4	13.6	10	84	51	0	.....	16	0.10	1.3	30.38	30.17	30.255	0.3	0.2	162	8	SSE	6	173	26
10	21.8	4.5	13.1	14.5	8	76	51	0	.....	17	0.04	2.2	30.29	30.20	30.256	1.9	1.8	269	16	WNW	10	270	71
11	19.1	-0.4	9.4	11.3	2	66	55	0	.....	15	0.00	0.0	30.36	30.24	30.279	2.5	2.5	286	19	W	11	275	124
12	10.8	-7.5	1.7*	-0.2	-9	65	63	0	.....	15	0.00	0.0	30.44	30.34	30.386	1.1	0.8	298	14	W	7	286	98
13	13.6	-8.6*	2.5	3.6	-5	66	62	0	.....	14	0.00	0.0	30.48	30.24	30.400	0.6	0.4	328	8	N	5	270	102
14	24.8	8.8	16.8	15.1	9	77	48	0	.....	14	T	T	30.33	30.19	30.255	1.4	1.3	181	14	S	9	165	43
15	21.9	6.2	14.0	15.6	12	84	51	0	.....	14	0.02	0.5	30.33	30.05	30.243	0.1	0.1	287	7	WSW	4	251	49
16	34.3	10.6	22.4	24.0	21	87	42	0	.....6	17	0.63	3.5	30.05	29.44	29.692	4.1	2.9	246	31	WSW	20	261	44
17	20.1	2.1	11.1	10.7	0	63	54	0	.....	16	0.00	0.0	30.49	29.91	30.287	2.9	2.7	254	20	WSW	14	257	144
18	23.7	6.3	15.0	15.5	7	70	50	0	.....	16	0.00	0.0	30.52	30.32	30.435	0.2	0.2	5	7	N	4	63	72
19	28.1	13.4	20.8	21.2	16	79	44	0	.....	16	0.02	0.6	30.33	30.01	30.150	0.4	0.4	208	10	WNW	6	249	59
20	23.5	14.7	19.1	18.5	13	80	45	0	.....	16	T	0.3	30.23	30.01	30.063	2.2	1.9	270	14	WNW	9	266	90
21	28.4	9.6	19.0	18.6	9	68	46	0	.....	15	T	T	30.49	30.23	30.394	2.1	1.9	273	15	W	8	274	150
22	29.7	10.3	20.0	25.2	19	76	45	0	.....	16	0.12	0.8	30.33	29.54	29.885	5.7	5.7	169	30	SSE	14	171	40
23	38.2	29.0	33.6	32.6	29	86	31	0	.....	15	0.04	0.3	29.68	29.44	29.527	4.1	3.9	188	18	S	10	171	69
24	41.9*	33.0	37.5*	37.5	30	74	27	0	.....	13	T	T	29.91	29.47	29.716	5.0	4.3	198	27	S	14	176	95
25	39.7	15.2	27.5	24.4	17	73	37	0	.....	13	0.08	1.5	30.22	29.49	29.969	5.0	4.6	281	25	SW	14	220	71
26	31.5	8.3	19.9	20.5	10	65	45	0	.....	13	0.00	0.0	30.45	30.22	30.373	1.4	0.9	201	14	W	8	258	162
27	39.2	23.5	31.4	33.5	27	79	33	0	.....	12	0.06	T	30.33	29.84	30.073	6.6	5.6	185	35	S	18	167	42
28	41.2	27.9	34.6	37.0	28	71	30	0	.....	11	0.00	0.0	30.27	29.76	30.114	2.4	1.9	177	18	SW	11	163	95
Sum	Sum	-----	-----	---	----	Ttl	Ttl						Total	Total	For the month:						---			
780	311					1264	0		Number of Days				2.23	27.1	30.52	29.44	30.057	2.6	1.5	228	35	S	20	261
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip				Season Ttl	Date	Date	-----	----	---		Date	Date	Avg		
27.9	11.1	19.5	19.9	13	76.5	----	----		≥.01 inch	14			4.24	64.5	18	23	-----	----	---		27	16	73	
Number of Days						Season to Date	Snow, Ice ≥1.0 inch	8	Greatest in 24 Hours and Dates						Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date									
Max Temperature			Min Temperature			5352	0	Thunder	0	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	0.00	-	11.6	2	20		2										
0	21	27	4	----	----	Clear	5	Partly Cloudy	8	Cloudy	15													

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 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																																																								
FEB 01																												FEB 02																												FEB 03																											
FEB 04																												FEB 05																												FEB 06																											
FEB 07																												FEB 08																												FEB 09																											
FEB 10																												FEB 11																												FEB 12																											
FEB 13																												FEB 14																												FEB 15																											
FEB 16																												FEB 17																												FEB 18																											

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 2021: 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	30.33	0.00	18	11	74	34	0	2	0	30.01	0.00	19	17	91	28	0	10	0	30.23	0.00	18	14	82	29	3	7
03	0	30.27	0.00	15	9	78	34	0	0	0	30.02	0.00	16	14	89	28	3	7	0	30.30	0.00	18	13	81	28	2	13
06	0	30.24	0.00	15	10	81	34	0	2	0	30.02	0.00	15	11	84	28	0	2	0	30.38	0.00	17	11	77	27	5	9
09	151	30.22	0.00	20	13	75	05	0	1	86	30.01	0.00	19	13	78	22	4	8	202	30.45	0.00	16	9	72	28	1	6
12	234	30.15	0.00	27	17	67	07	0	4	204	30.02	0.00	21	14	74	35	0	4	621	30.49	0.00	24	9	53	28	5	10
15	107	30.08	0.00	28	19	70	31	0	0	118	30.04	0.00	21	14	72	28	4	14	250	30.45	0.00	27	10	50	27	1	10
18	0	30.03	0.00	25	20	83	31	0	0	0	30.11	0.00	19	12	74	28	0	0	0	30.42	0.00	19	9	67	33	0	0
21	0	30.02	0.00	24	21	91	18	0	5	0	30.17	0.00	19	14	81	26	3	9	0	30.39	0.00	13	5	72	33	2	4
FEB 22									FEB 23									FEB 24									
00	0	30.33	0.00	10	5	77	18	1	4	0	29.54	0.00	29	28	94	18	6	12	0	29.68	0.00	33	31	93	18	5	8
03	0	30.24	0.00	19	9	66	17	3	7	0	29.53	0.00	30	28	93	17	3	7	0	29.76	0.00	36	31	84	23	6	16
06	0	30.12	0.00	23	10	59	15	2	12	0	29.54	0.00	31	28	90	19	3	5	0	29.85	0.00	34	29	82	23	5	10
09	65	30.03	0.00	26	17	71	16	8	18	18	29.53	0.00	31	28	87	19	2	4	353	29.91	0.00	38	28	68	18	6	11
12	148	29.83	0.00	29	16	59	17	5	12	134	29.46	0.00	35	29	77	18	5	15	369	29.83	0.00	42	28	58	18	4	13
15	63	29.72	0.00	29	24	82	17	7	19	160	29.45	0.00	36	27	70	18	6	12	102	29.71	0.00	40	28	64	17	1	9
18	0	29.62	0.00	29	26	87	17	8	17	0	29.51	0.00	32	30	92	18	6	11	0	29.62	0.00	39	30	70	17	11	25
21	0	29.58	0.00	30	28	94	18	5	12	0	29.60	0.00	32	30	94	19	3	9	0	29.48	0.00	40	31	71	17	10	16
FEB 25									FEB 26									FEB 27									
00	0	29.49	0.00	39	33	79	21	4	11	0	30.22	0.00	16	6	63	29	1	5	0	30.32	0.00	25	16	69	16	4	7
03	0	29.70	0.00	29	26	91	30	4	19	0	30.28	0.00	15	10	78	28	3	8	0	30.26	0.00	28	18	65	16	6	16
06	0	29.87	0.00	25	22	91	28	4	11	0	30.36	0.00	11	6	81	30	0	1	0	30.19	0.00	32	19	59	16	7	24
09	49	29.97	0.00	24	21	88	28	6	18	348	30.44	0.00	19	8	62	30	0	0	46	30.11	0.00	33	28	80	17	11	21
12	127	30.01	0.00	26	20	77	25	3	13	657	30.41	0.00	26	8	46	14	0	3	334	29.92	0.00	36	31	82	16	7	17
15	70	30.05	0.00	27	16	62	30	4	16	392	30.42	0.00	31	11	42	17	5	9	51	29.85	0.00	36	35	94	16	7	22
18	0	30.12	0.00	20	5	50	29	3	13	0	30.43	0.00	25	14	63	17	0	2	0	29.93	0.00	39	36	89	22	6	15
21	0	30.18	0.00	17	5	60	26	3	10	0	30.39	0.00	19	12	74	08	1	3	0	30.08	0.00	37	30	76	27	9	19
FEB 28																											
00	0	30.17	0.00	35	30	82	30	0	7																		
03	0	30.22	0.00	35	29	79	25	0	5																		
06	0	30.25	0.00	31	27	85	28	0	0																		
09	223	30.26	0.00	36	29	76	26	0	3																		
12	381	30.21	0.00	40	29	64	18	2	8																		
15	179	30.10	0.00	41	29	64	18	3	9																		
18	0	30.00	0.00	38	28	67	16	3	6																		
21	0	29.88	0.00	40	28	62	17	7	12																		

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	30.068	17	12	81	1.9	24	1.1
03	0	30.074	16	11	81	2.1	26	1.2
06	0	30.080	16	11	82	1.7	23	0.9
09	116	30.088	19	13	78	3.2	21	2.0
12	288	30.052	25	15	67	3.2	22	1.7
15	147	30.022	26	16	68	3.3	22	1.9
18	0	30.037	21	15	76	2.6	22	1.7
21	0	30.045	19	13	80	2.5	24	1.6

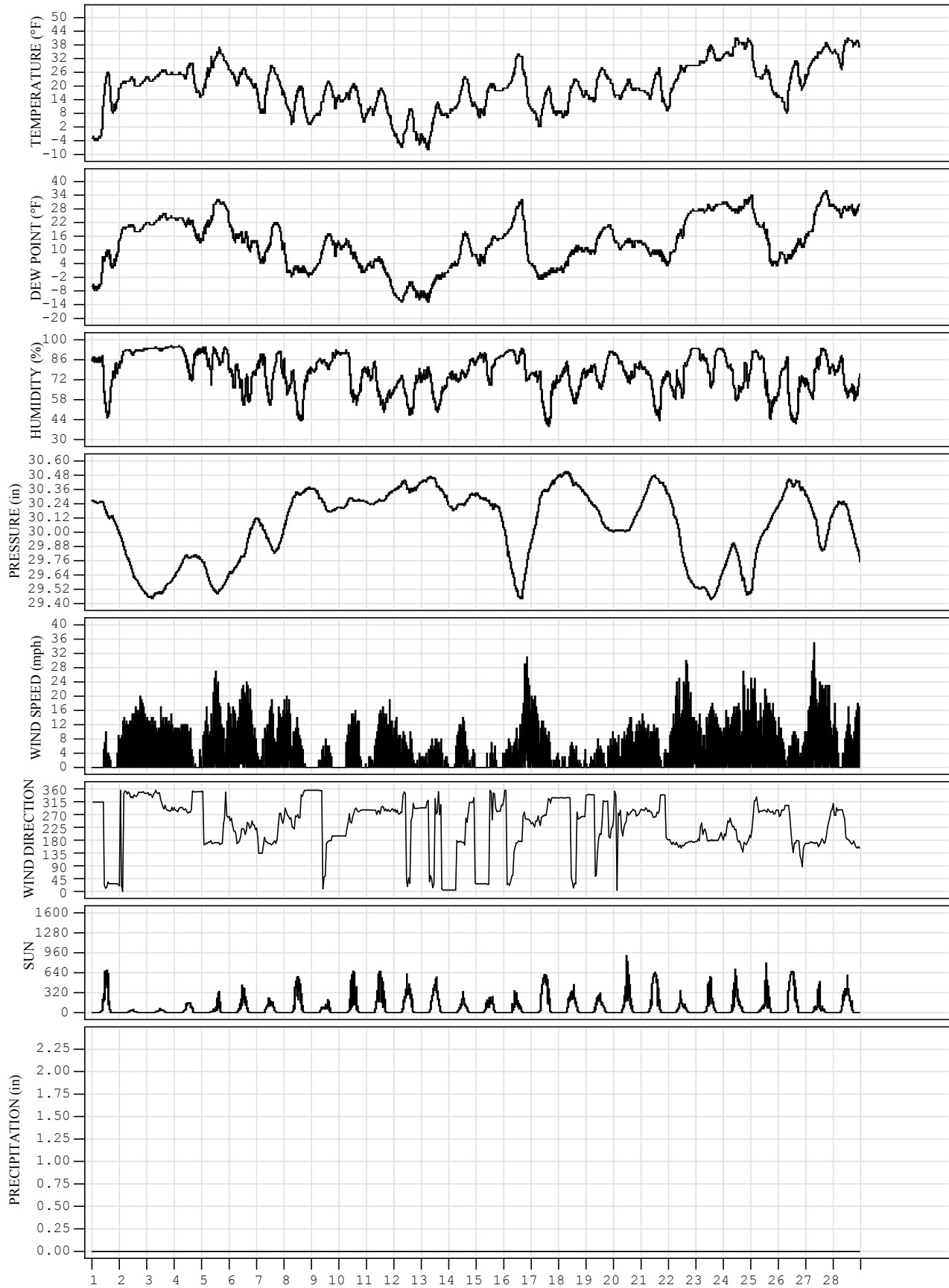
HOURLY PRECIPITATION (Water Equivalent) February 2021: Westford

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																								01	
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27																									27
28																									28
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

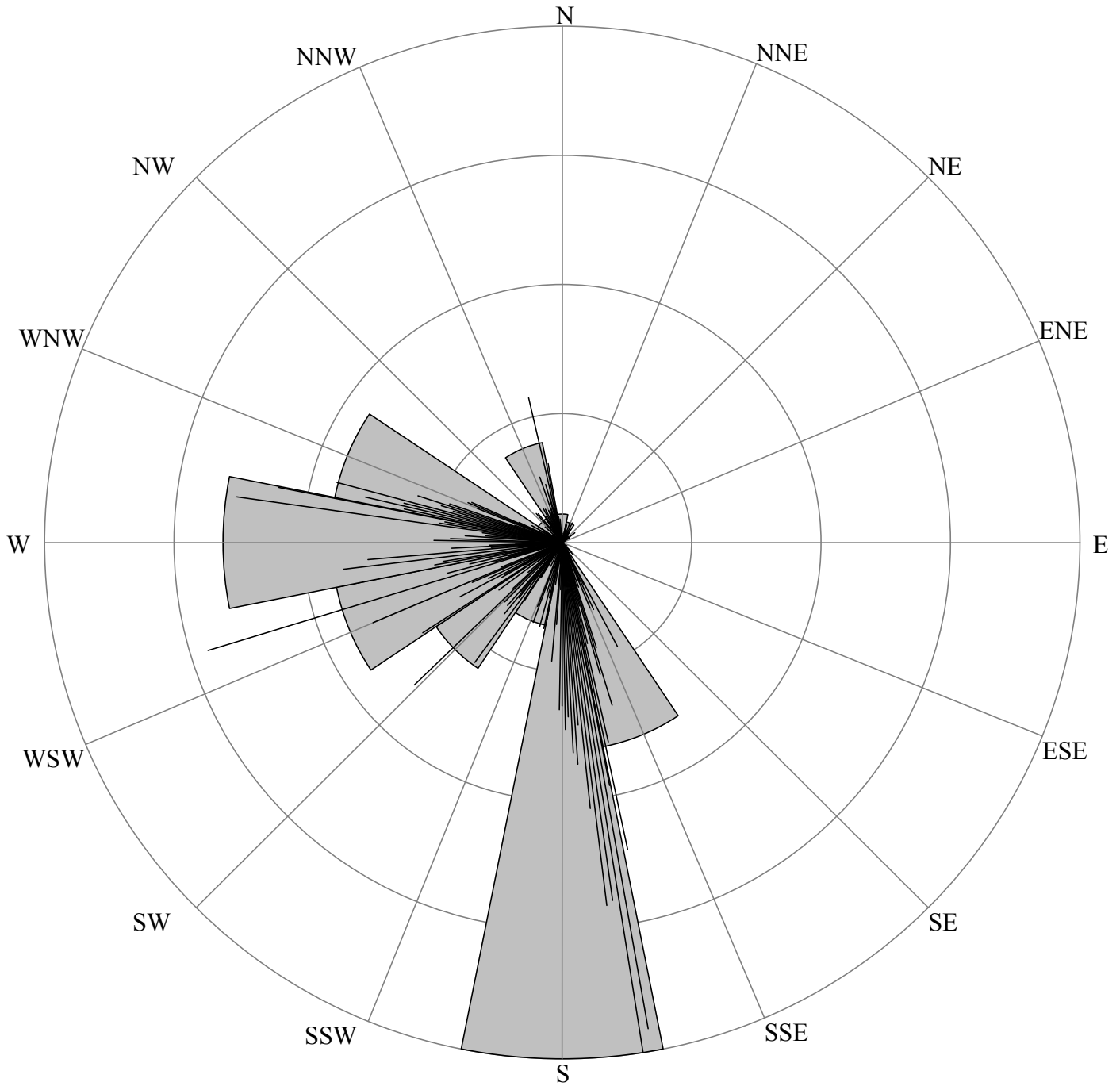
During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA

February 2021: Westford



Wind Rose: February 2021
Westford



Maximum direction of wind: 61.3 miles from 171°
Maximum sector of wind: 461.7 miles from S
1747.8 total miles of wind