

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

February 2022

Station: Westford

Latitude: 44° 37' 38" 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 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	33.1	3.9	18.5	19.3	10	70	46	0	.....	6	0.00	0.0	30.56	30.35	30.461	3.0	3.0	165	23	S	12	180	109
2	40.6	25.8	33.2	35.0	27	73	31	0	.....	4	0.00	0.0	30.35	30.09	30.241	10.1	10.1	173	35	SSE	17	173	85
3	39.5	12.3	25.9	28.0	25	90	39	0	.....	6	0.47	3.8	30.32	30.08	30.212	3.9	1.3	215	26	SSE	14	173	14
4	12.4	5.0	8.7	8.9	6	87	56	0	.....	16	0.87	10.3	30.26	30.05	30.125	1.7	1.5	315	14	N	6	284	9
5	11.2	-5.8	2.7*	5.0	-1	77	62	0	.....	16	0.03	0.8	30.56	30.05	30.279	2.0	2.0	286	20	W	11	263	103
6	20.7	-7.2*	6.8	9.1	0	68	58	0	.....	15	0.00	0.0	30.60	30.36	30.490	4.9	4.9	171	36	SSE	15	170	74
7	33.8	19.4	26.6	26.5	20	77	38	0	.....	13	0.00	0.0	30.37	30.03	30.224	5.4	5.4	172	29	SSE	14	179	80
8	30.8	22.7	26.8	27.2	24	88	38	0	.....	12	T	T	30.04	29.82	29.887	0.8	0.7	246	15	SW	8	233	37
9	39.3	17.9	28.6	29.9	21	71	36	0	.....	11	0.00	0.0	29.98	29.79	29.880	5.0	4.7	181	27	SSE	13	172	119
10	38.2	31.3	34.8	36.1	30	79	30	0	.....	10	0.00	0.0	29.81	29.61	29.703	6.3	5.8	190	24	S	15	242	33
11	45.7	29.5	37.6	37.4	26	64	27	0	.....	9	0.00	0.0	29.89	29.65	29.773	6.1	5.9	177	31	S	17	177	74
12	44.7	6.7	25.7	32.2	24	72	39	0	.....	7	T	T	30.19	29.65	29.840	5.0	3.5	230	25	W	15	254	39
13	12.8	-0.7	6.1	4.9	-2	74	59	0	.....	7	T	T	30.28	30.12	30.209	1.4	1.2	307	13	NNW	8	257	136
14	9.5	-1.9	3.8	2.1	-7	67	61	0	.....	7	0.01	0.1	30.35	30.08	30.164	2.2	2.1	286	20	W	11	266	107
15	18.3	-2.5	7.9	6.5	-1	69	57	0	.....	7	T	T	30.69	30.35	30.523	2.5	1.9	215	15	S	9	248	90
16	39.5	-1.2	19.1	23.7	14	67	45	0	.....	6	0.00	0.0	30.67	30.07	30.362	9.3	9.2	172	46	S	23	165	74
17	48.0	36.4	42.2*	44.1	39	81	23	0	.....	2	0.14	0.0	30.07	29.31	29.792	9.8	9.6	174	35	SSE	18	166	19
18	36.4	-0.3	18.1	14.6	12	89	47	0	...4.6...	3	0.91	2.8	30.04	29.22	29.692	3.0	2.9	297	26	W	12	288	51	
19	25.7	-1.7	12.0	14.6	9	79	53	0	.....	3	0.06	0.3	30.24	29.63	29.850	8.1	5.9	211	34	SSE	17	271	36
20	30.4	-2.0	14.2	14.8	4	64	51	0	.....	3	0.00	0.0	30.36	29.92	30.165	7.9	7.1	175	44	S	21	171	82
21	40.0	22.7	31.4	32.9	21	62	33	0	.....	2	0.00	0.0	30.37	30.02	30.222	4.5	3.9	178	26	SSE	15	171	59
22	49.7	18.1	33.9	35.5	29	79	31	0	.....	1	0.21	0.0	30.36	29.62	30.059	3.6	3.5	169	28	S	13	179	75
23	52.1*	8.8	30.4	34.2	28	79	34	0	.....	1	T	T	30.36	29.63	29.904	8.1	6.6	250	41	W	25	251	118
24	20.6	3.8	12.2	10.3	0	65	52	0	.....	1	0.00	0.0	30.58	30.36	30.497	1.9	1.7	288	18	WSW	10	273	156
25	17.1	0.3	8.7	10.6	6	83	56	0	.....	9	0.55	8.9	30.47	29.98	30.224	1.7	1.1	323	18	WNW	10	276	9
26	24.4	-2.7	10.8	13.2	6	74	54	0	.....	7	0.00	0.0	30.42	30.03	30.291	3.8	3.8	173	19	S	9	165	123
27	30.6	9.8	20.2	20.8	15	78	44	0	.....	7	0.06	1.1	30.03	29.65	29.843	6.3	4.2	221	32	WNW	20	284	55
28	15.0	-3.4	5.8	4.9	-5	64	59	0	.....	6	0.00	0.0	30.33	30.00	30.246	2.4	2.3	285	19	W	10	279	181
Sum	Sum	-----	-----	---	----	Ttl	Ttl						Total	Total	For the month:						---			
860	245					1259	0		Number of Days				3.31	28.1	30.69	29.22	30.113	4.7	3.2	198	46	S	25	251
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip				Season Ttl	Date	Date	-----	----	---		Date	Date	Avg		
30.7	8.8	19.7	20.8	14	74.6	----	----		≥.01 inch	10	4.55	66.7	15	18	-----	----	---			16	23	77		
Number of Days						Season to Date	Snow, Ice ≥1.0 inch	5	Greatest in 24 Hours and Dates						Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date									
Max Temperature			Min Temperature			5542	0	Thunder	0	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----			Heavy Fog	0	0.00	-	10.3	4	16			4+							
0	14	27	12	----	----			Clear	6	Partly Cloudy		7	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 2022: Westford

Hour	FEB 01						FEB 02						FEB 03														
	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity									
00	0	30.48	0.00	8	4	83	08	0	0	0	30.35	0.00	26	19	75	14	5	13	0	30.11	0.00	39	34	83	17	9	20
03	0	30.50	0.00	7	4	84	08	0	0	0	30.34	0.00	28	22	77	16	14	30	0	30.09	0.00	38	34	88	16	5	22
06	0	30.51	0.00	4	1	88	08	0	0	0	30.31	0.00	31	24	76	16	16	29	0	30.12	0.00	37	35	92	19	6	16
09	30	30.55	0.00	9	6	86	06	0	0	67	30.30	0.00	32	26	77	16	7	23	26	30.20	0.00	35	33	94	29	2	8
12	540	30.49	0.00	29	13	50	16	6	17	520	30.27	0.00	38	28	65	18	9	23	79	30.24	0.00	30	28	93	29	5	10
15	130	30.41	0.00	33	15	47	16	6	15	111	30.18	0.00	40	28	61	17	7	19	23	30.28	0.00	23	20	89	35	5	12
18	0	30.40	0.00	27	16	61	15	5	13	0	30.19	0.00	39	30	72	17	9	19	0	30.31	0.00	19	17	91	30	1	5
21	0	30.38	0.00	27	17	65	15	7	21	0	30.13	0.00	40	33	75	16	15	28	0	30.30	0.00	16	13	90	29	2	8

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 2022: 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	30.00	0.00	-0	-4	85	25	0	0	0	30.24	0.00	8	0	71	27	9	18	0	30.02	0.00	30	16	54	16	10	28
03	0	29.89	0.00	8	4	84	21	2	14	0	30.31	0.00	3	-3	73	27	3	8	0	30.07	0.00	31	17	55	17	11	21
06	0	29.76	0.00	13	9	84	16	8	24	0	30.33	0.00	-1	-5	83	27	0	0	0	30.12	0.00	31	18	58	17	9	16
09	18	29.71	0.00	17	14	88	16	10	20	322	30.33	0.00	8	0	69	17	4	14	202	30.19	0.00	34	20	58	18	7	16
12	114	29.66	0.00	23	19	84	17	9	20	248	30.23	0.00	15	4	61	17	7	20	276	30.25	0.00	38	22	52	18	1	7
15	167	29.74	0.00	23	15	69	22	8	19	360	30.07	0.00	23	9	56	17	12	34	204	30.26	0.00	40	25	55	04	0	4
18	0	29.86	0.00	20	13	74	29	11	19	0	29.98	0.00	26	11	54	17	14	35	0	30.31	0.00	34	26	72	00	1	5
21	0	30.10	0.00	10	3	71	26	9	19	0	29.93	0.00	28	14	55	15	15	30	0	30.37	0.00	29	24	81	33	1	5
FEB 22									FEB 23									FEB 24									
00	0	30.35	0.00	23	17	77	25	1	7	0	29.63	0.00	48	47	96	17	10	18	0	30.36	0.00	9	2	73	29	3	10
03	0	30.31	0.00	19	14	81	25	0	0	0	29.64	0.00	49	47	95	16	2	9	0	30.41	0.00	7	0	74	31	3	11
06	0	30.28	0.00	19	15	84	25	0	3	0	29.66	0.00	49	48	95	15	5	12	0	30.47	0.00	5	-1	77	26	1	10
09	299	30.23	0.00	32	25	73	18	3	11	56	29.71	0.00	51	41	69	23	10	18	294	30.53	0.00	8	0	69	33	2	6
12	257	30.12	0.00	44	30	58	17	2	7	657	29.78	0.00	39	30	70	25	19	38	619	30.58	0.00	13	-0	55	26	2	9
15	128	29.99	0.00	48	37	66	15	10	20	40	29.94	0.00	27	21	79	25	2	10	313	30.52	0.00	20	-2	38	34	3	5
18	0	29.85	0.00	41	39	91	14	4	9	0	30.16	0.00	18	12	76	29	10	21	0	30.53	0.00	13	1	57	33	1	5
21	0	29.67	0.00	41	40	94	15	4	10	0	30.31	0.00	11	4	72	28	7	14	0	30.53	0.00	7	-0	70	00	0	0
FEB 25									FEB 26									FEB 27									
00	0	30.46	0.00	9	2	71	00	0	0	0	30.38	0.00	0	-3	85	27	0	0	0	30.03	0.00	21	13	73	17	6	12
03	0	30.39	0.00	11	2	67	01	1	4	0	30.38	0.00	2	-1	87	27	0	0	0	29.95	0.00	21	15	78	16	4	8
06	0	30.29	0.00	12	7	81	02	0	2	0	30.41	0.00	-3	-6	84	18	2	4	0	29.88	0.00	21	16	84	18	4	9
09	19	30.11	0.00	13	10	88	00	1	6	69	30.41	0.00	9	5	84	17	5	11	195	29.80	0.00	23	19	85	18	5	15
12	28	30.04	0.00	16	13	88	03	1	4	436	30.35	0.00	18	9	65	16	3	11	120	29.70	0.00	28	21	74	21	7	24
15	26	30.01	0.00	17	14	88	04	0	3	320	30.25	0.00	24	9	53	17	6	12	91	29.65	0.00	31	23	74	21	9	22
18	0	30.19	0.00	7	4	86	28	3	12	0	30.18	0.00	21	11	66	16	5	12	0	29.85	0.00	17	10	72	25	9	16
21	0	30.34	0.00	4	1	87	27	3	8	0	30.14	0.00	21	13	70	17	6	11	0	29.91	0.00	12	6	75	26	1	7
FEB 28																											
00	0	30.00	0.00	10	3	72	27	3	16																		
03	0	30.09	0.00	4	-4	70	27	2	10																		
06	0	30.19	0.00	0	-7	70	27	4	11																		
09	380	30.28	0.00	3	-6	66	31	5	12																		
12	701	30.30	0.00	9	-3	56	29	4	9																		
15	429	30.28	0.00	13	-5	44	26	1	9																		
18	0	30.31	0.00	7	-5	59	28	0	0																		
21	0	30.33	0.00	0	-6	73	28	0	2																		

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	30.127	18	12	77	4.3	19	2.8
03	0	30.114	17	12	80	3.3	18	2.0
06	0	30.118	17	12	82	3.7	18	2.6
09	134	30.129	20	14	79	4.5	19	3.0
12	306	30.103	25	16	69	5.6	20	3.8
15	168	30.075	27	16	65	5.8	20	3.6
18	0	30.110	22	14	72	4.7	21	2.6
21	0	30.131	19	13	75	4.6	19	3.2

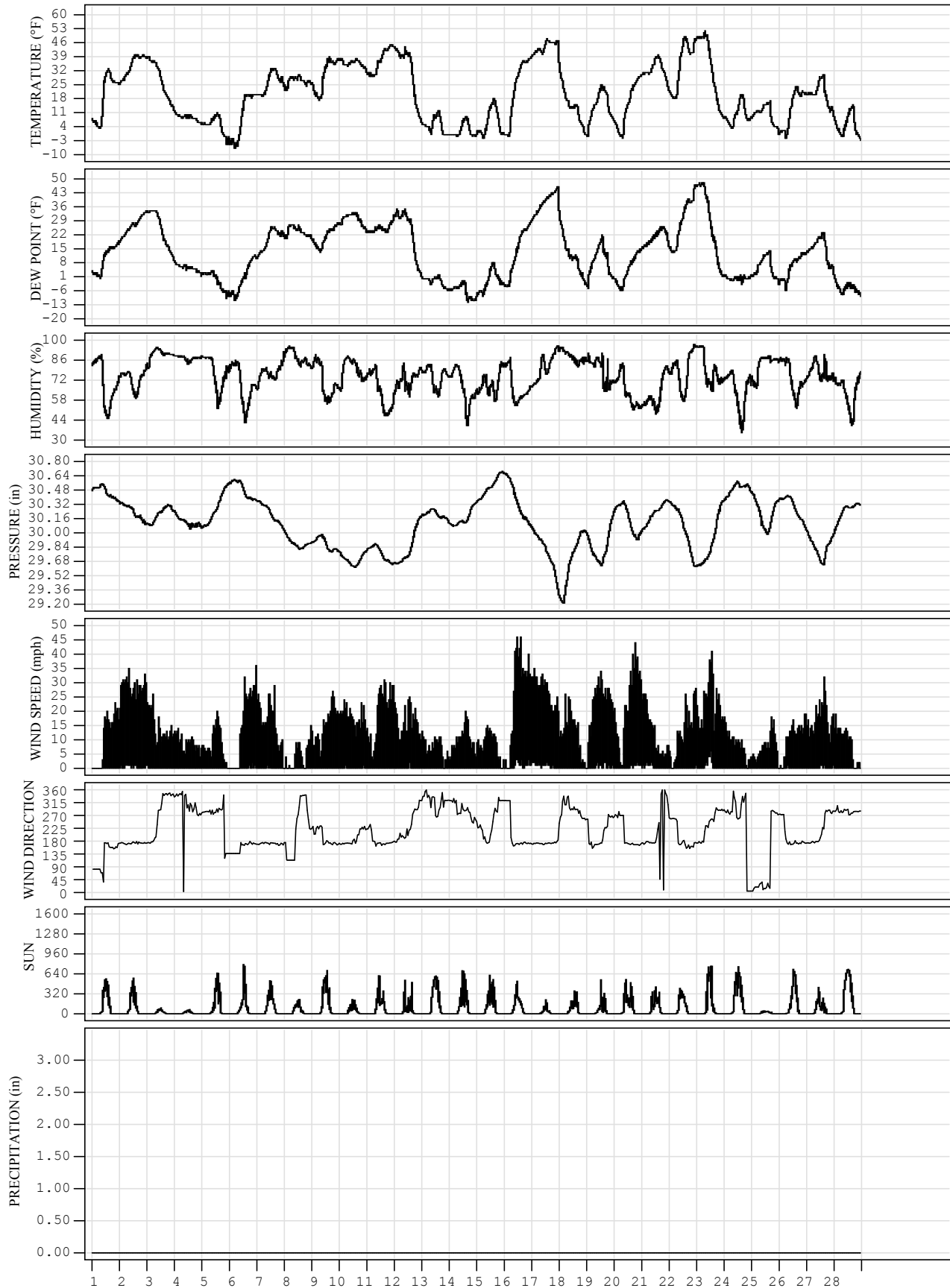
HOURLY PRECIPITATION (Water Equivalent) February 2022: Westford

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																									02
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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

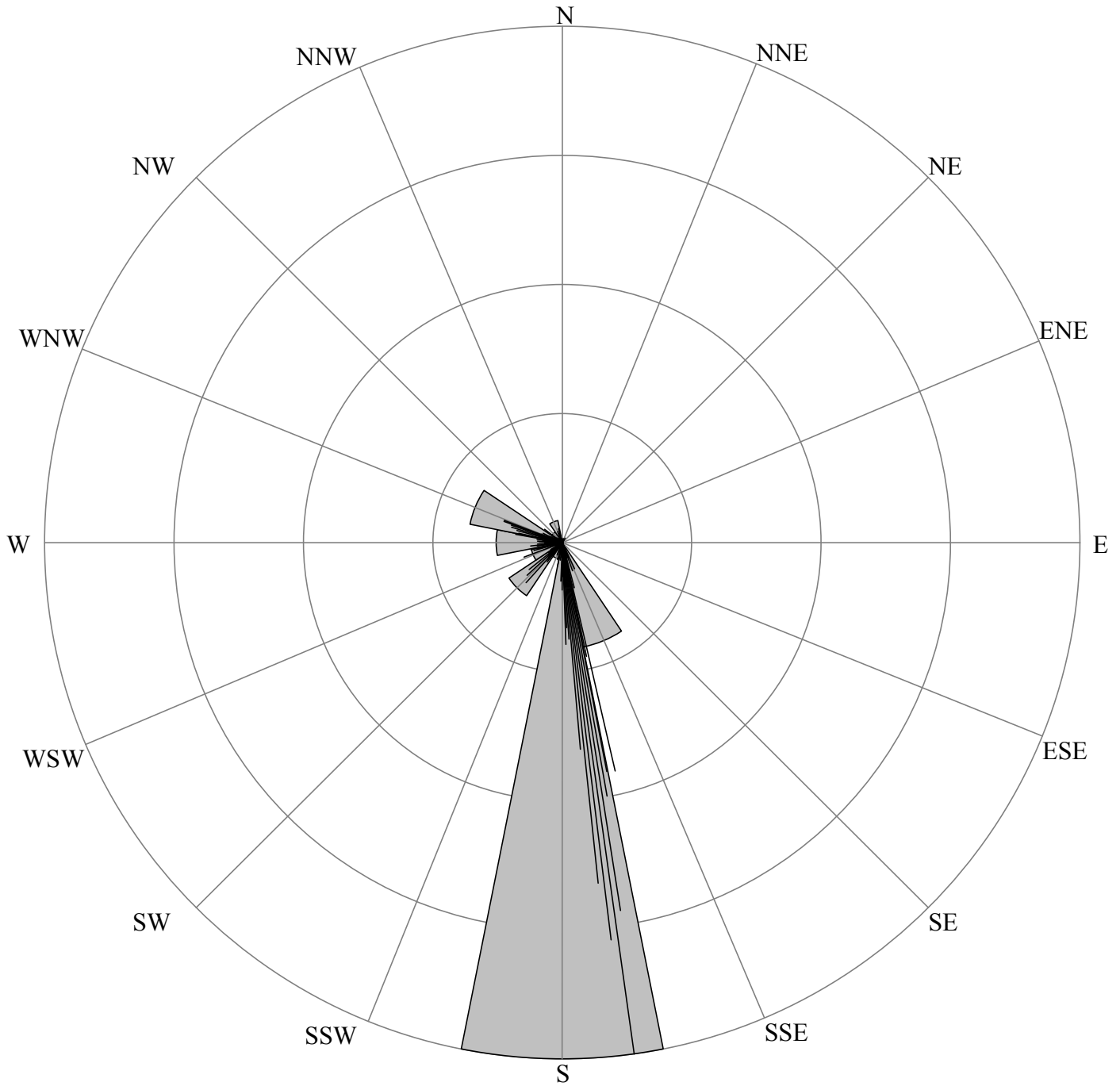
During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA

February 2022: Westford



Wind Rose: February 2022
Westford



Maximum direction of wind: 314.5 miles from 172°
Maximum sector of wind: 1727.4 miles from S
3136.7 total miles of wind