

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

February 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 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	35.9	25.8	30.9	30.7	23	74	34	0	.....	1	T	T	29.83	29.69	29.762	6.1	5.9	210	25	SSW	15	203	51
2	27.1	-1.1	13.0	6.9	-0	72	52	0	.....	3	0.15	2.0	30.23	29.78	30.007	3.7	3.6	318	23	WNW	14	293	70
3	21.3	-9.1*	6.1*	8.2	2	74	59	0	.....	3	0.01	0.1	30.25	30.12	30.208	1.7	1.6	216	21	S	11	206	64
4	31.8	21.3	26.5	27.9	22	80	38	0	.....	4	0.16	1.4	30.12	29.63	29.911	4.8	4.8	207	32	S	13	210	25
5	31.9	5.7	18.8	18.0	12	77	46	0	.....	5	0.13	1.3	30.17	29.55	29.900	1.5	1.4	308	24	WNW	14	297	45
6	25.0	11.0	18.0	17.4	12	79	47	0	.....	5	0.03	0.2	30.50	30.17	30.288	1.3	1.2	215	15	S	8	209	72
7	21.7	5.9	13.8	14.7	12	90	51	0	.....	11	0.60	5.7	30.50	29.93	30.222	0.5	0.4	311	20	NW	9	321	6
8	20.4	5.9	13.1	12.7	8	80	52	0	.....	11	0.00	0.0	30.31	30.10	30.244	0.4	0.4	267	12	NW	6	298	33
9	22.1	4.8	13.5	16.1	10	77	51	0	.....	0	0.00	0.0	30.46	30.25	30.370	3.0	2.8	213	15	W	9	216	68
10	35.4	21.8	28.6	28.0	26	92	36	0	.....	0	0.00	0.0	30.26	30.05	30.136	3.7	3.5	211	21	SSW	12	215	18
11	42.4	19.3	30.9	27.6	26	93	34	0	.....	0	0.00	0.0	30.14	29.68	29.947	2.0	2.0	212	28	SSW	15	216	20
12	39.6	15.4	27.5	25.4	17	70	37	0	.....	8	0.38	T	30.67	29.83	30.310	2.7	2.6	315	27	NW	15	302	108
13	25.1	6.3	15.7	17.3	5	61	49	0	.....	8	0.00	0.0	30.81	30.39	30.674	0.9	0.9	210	22	SSW	10	206	115
14	38.1	24.5	31.3	31.2	23	71	33	0	.....	7	0.00	0.0	30.39	29.92	30.095	5.2	5.1	209	29	WSW	12	218	71
15	49.8	32.8	41.3	40.7	36	83	23	0	.....	5	0.00	0.0	29.92	29.53	29.674	4.1	3.9	213	23	S	12	206	52
16	44.5	14.6	29.6	31.2	28	86	35	0	.....	5	0.15	2.0	30.15	29.53	29.702	1.2	1.2	327	23	NW	10	338	15
17	30.2	6.7	18.5	21.4	11	67	46	0	.....	5	T	T	30.34	29.97	30.182	2.6	2.6	209	27	SSW	15	208	105
18	34.2	21.4	27.8	28.0	23	83	37	0	.....	6	0.15	1.2	30.41	29.92	30.184	1.3	1.1	247	13	WSW	7	266	45
19	42.8	20.9	31.8	34.4	27	75	33	0	.....	3	0.03	0.0	30.40	30.12	30.247	6.0	6.0	206	33	S	18	205	101
20	53.7	39.5	46.6	46.6	45	95	18	0	.....	1	0.38	0.0	30.13	30.05	30.097	4.9	4.9	206	24	S	11	203	19
21	65.7*	29.0	47.3	49.9	44	81	17	0	.....	T	0.01	0.0	30.52	29.94	30.150	6.8	4.1	238	26	S	17	214	60
22	29.0	16.3	22.6	24.0	17	74	42	0	.....	T	0.00	0.0	30.72	30.52	30.644	0.0	0.0	307	10	NW	2	307	45
23	36.0	14.5	25.3	27.0	22	83	39	0	.....	T	0.09	0.0	30.71	29.96	30.358	3.4	3.4	208	32	SW	17	209	48
24	39.5	23.2	31.4	33.5	29	85	33	0	.....	T	T	T	30.27	29.97	30.134	1.3	1.0	281	19	WNW	8	311	62
25	35.9	23.4	29.7	31.4	28	88	35	0	...4.6...	T	0.24	0.1	30.25	29.85	29.985	1.7	1.6	193	24	SSE	9	163	21	
26	42.0	31.9	36.9	36.3	28	73	28	0	.....	T	0.00	0.0	30.16	29.91	30.026	2.7	2.4	266	22	N	13	286	102
27	47.6	26.2	36.9	37.9	25	61	28	0	.....	T	0.00	0.0	30.27	29.98	30.148	2.8	2.4	226	19	SSW	9	213	148
28	57.0	39.8	48.4*	46.9	30	52	16	0	.....	0	0.00	0.0	29.99	29.69	29.832	4.2	4.1	213	21	S	12	222	108
Sum	Sum	-----	-----	---	----		Ttl	Ttl					Total	Total	For the month:					---				
1026	498						1049	0	Number of Days				2.51	14.0	30.81	29.53	30.123	2.9	2.2	225	33	S	18	205
Avg	Avg	Avg	Mean	Avg	Avg	Avg	----	----	Precip				Season Ttl	Date	Date	-----	----	---		Date	Date	Avg		
36.6	17.8	27.2	27.5	21	77.7	----	----	----	≥.01 inch	14			6.59	63.2	13	15	-----	----	---		19	19	61	
Number of Days							Season to Date	Snow, Ice ≥1.0 inch	6	Greatest in 24 Hours and Dates					Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date									
Max Temperature			Min Temperature			5444	0	Thunder	0	Precipitation		Snow, Ice Plts												
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	----	----	Heavy Fog	0	0.00	-	5.7	7	11			7+							
0	11	25	2	----	----	----	----	Clear	2	Partly Cloudy		13	Cloudy		13									

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

February 2018: Westford

Hour	FEB 19			FEB 20			FEB 21			FEB 22			FEB 23			FEB 24			FEB 25			FEB 26			FEB 27			FEB 28													
	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	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust					
00	0	30.39	0.00	22	19	87	21	0	0	0	30.12	0.00	40	38	93	20	6	16	0	30.10	0.00	53	50	90	21	6	12														
03	0	30.34	0.00	28	21	75	18	4	9	0	30.10	0.00	41	40	95	20	8	13	0	30.05	0.00	57	52	83	20	8	21														
06	0	30.35	0.00	28	20	71	20	4	10	0	30.11	0.00	43	42	96	20	6	11	0	30.03	0.00	56	52	85	21	9	22														
09	264	30.31	0.00	34	23	63	19	14	33	47	30.11	0.00	45	44	96	18	2	9	272	30.02	0.00	60	53	79	20	9	20														
12	490	30.24	0.00	39	27	60	20	7	23	46	30.07	0.00	47	46	96	20	8	18	160	29.96	0.00	65	54	69	21	11	23														
15	90	30.18	0.00	42	30	62	19	7	24	53	30.07	0.00	49	47	94	19	4	11	19	30.13	0.00	47	45	91	31	5	18														
18	0	30.16	0.00	38	32	80	21	3	12	0	30.11	0.00	50	49	95	19	4	11	0	30.33	0.00	40	34	79	31	8	18														
21	0	30.14	0.00	38	35	87	19	8	20	0	30.10	0.00	53	50	92	20	7	13	0	30.42	0.00	34	27	77	32	7	15														
00	0	30.52	0.00	29	23	78	34	0	0	0	30.70	0.00	17	14	87	03	0	0	0	29.97	0.00	35	33	93	21	4	16														
03	0	30.58	0.00	25	19	79	02	0	0	0	30.67	0.00	16	14	91	03	0	0	0	30.00	0.00	35	34	95	23	1	6														
06	0	30.61	0.00	24	16	72	34	0	0	0	30.61	0.00	15	13	92	03	0	0	0	30.06	0.00	38	32	77	28	2	14														
09	83	30.66	0.00	25	16	70	01	0	0	137	30.54	0.00	25	19	75	21	0	0	58	30.11	0.00	35	32	91	30	2	12														
12	174	30.66	0.00	27	18	68	32	0	0	121	30.41	0.00	34	20	58	19	1	7	79	30.15	0.00	35	30	83	33	1	9														
15	79	30.66	0.00	27	17	67	33	0	0	51	30.20	0.00	33	24	69	20	6	16	243	30.16	0.00	38	29	71	33	0	8														
18	0	30.67	0.00	24	15	69	03	0	0	0	30.08	0.00	33	31	92	23	0	0	0	30.21	0.00	30	25	81	01	0	0														
21	0	30.70	0.00	18	14	83	03	0	0	0	30.01	0.00	35	32	91	21	12	25	0	30.26	0.00	25	22	87	04	0	0														
00	0	30.25	0.00	24	22	92	04	0	0	0	29.91	0.00	35	33	91	22	2	9	0	30.16	0.00	32	25	76	23	0	4														
03	0	30.20	0.00	26	23	88	09	0	0	0	29.93	0.00	34	33	94	20	1	7	0	30.19	0.00	31	23	71	31	1	7														
06	0	30.09	0.00	31	25	78	18	0	0	0	29.98	0.00	35	31	84	26	4	10	0	30.25	0.00	29	21	72	27	0	6														
09	37	30.00	0.00	30	26	83	17	2	15	91	30.01	0.00	36	28	71	23	2	12	330	30.27	0.00	34	24	65	24	1	7														
12	46	29.89	0.00	32	28	86	18	6	18	294	30.01	0.00	41	29	60	30	1	16	598	30.20	0.00	43	26	52	21	3	10														
15	21	29.90	0.00	33	31	92	26	0	4	142	30.03	0.00	41	25	52	31	8	16	388	30.11	0.00	47	26	44	22	3	10														
18	0	29.87	0.00	34	32	91	19	0	9	0	30.09	0.00	36	26	65	28	0	1	0	30.06	0.00	41	26	55	20	2	11														
21	0	29.89	0.00	34	32	93	19	0	7	0	30.13	0.00	35	26	70	26	1	8	0	30.03	0.00	42	28	58	21	5	14														
00	0	29.99	0.00	42	29	60	22	4	12																																
03	0	29.97	0.00	42	29	60	21	5	15																																
06	0	29.95	0.00	41	29	62	21	7	11																																
09	69	29.92	0.00	42	28	57	20	3	9																																
12	374	29.83	0.00	51	31	45	23	3	11																																
15	380	29.73	0.00	57	31	37	20	6	16																																
18	0	29.72	0.00	50	29	44	23	0	5																																
21	0	29.69	0.00	49	30	48	20	4	9																																

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	30.129	26	21	82	2.8	23	2.2
03	0	30.130	25	20	83	2.4	21	1.9
06	0	30.139	24	19	81	2.1	22	1.6
09	96	30.158	26	20	78	3.3	21	2.5
12	252	30.122	31	22	72	3.7	22	2.9
15	145	30.089	32	23	70	3.7	23	2.5
18	0	30.103	28	22	77	1.8	24	1.1
21	0	30.115	28	21	78	3.2	22	2.5

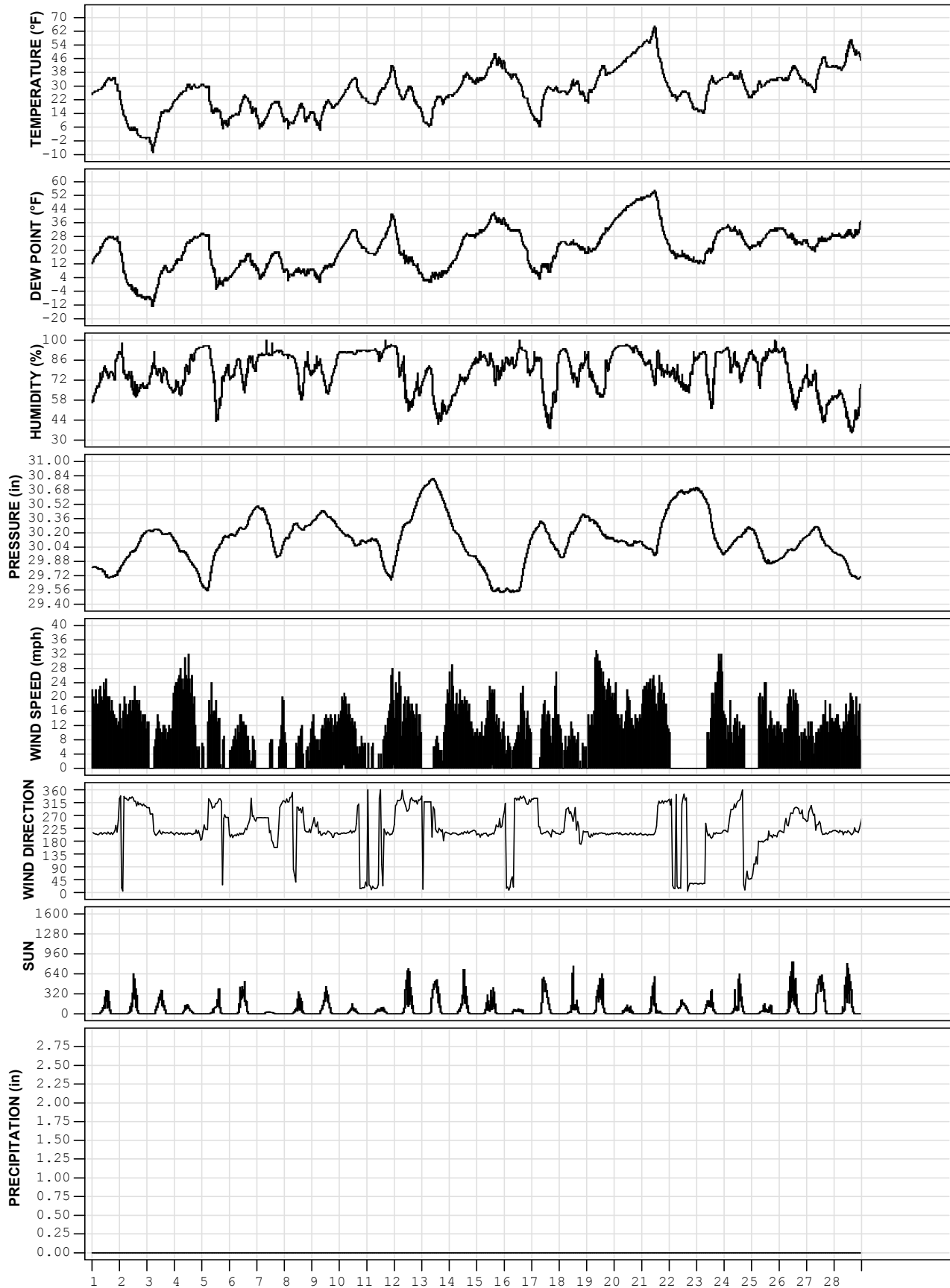
HOURLY PRECIPITATION (Water Equivalent) February 2018: Westford

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																								01	
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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

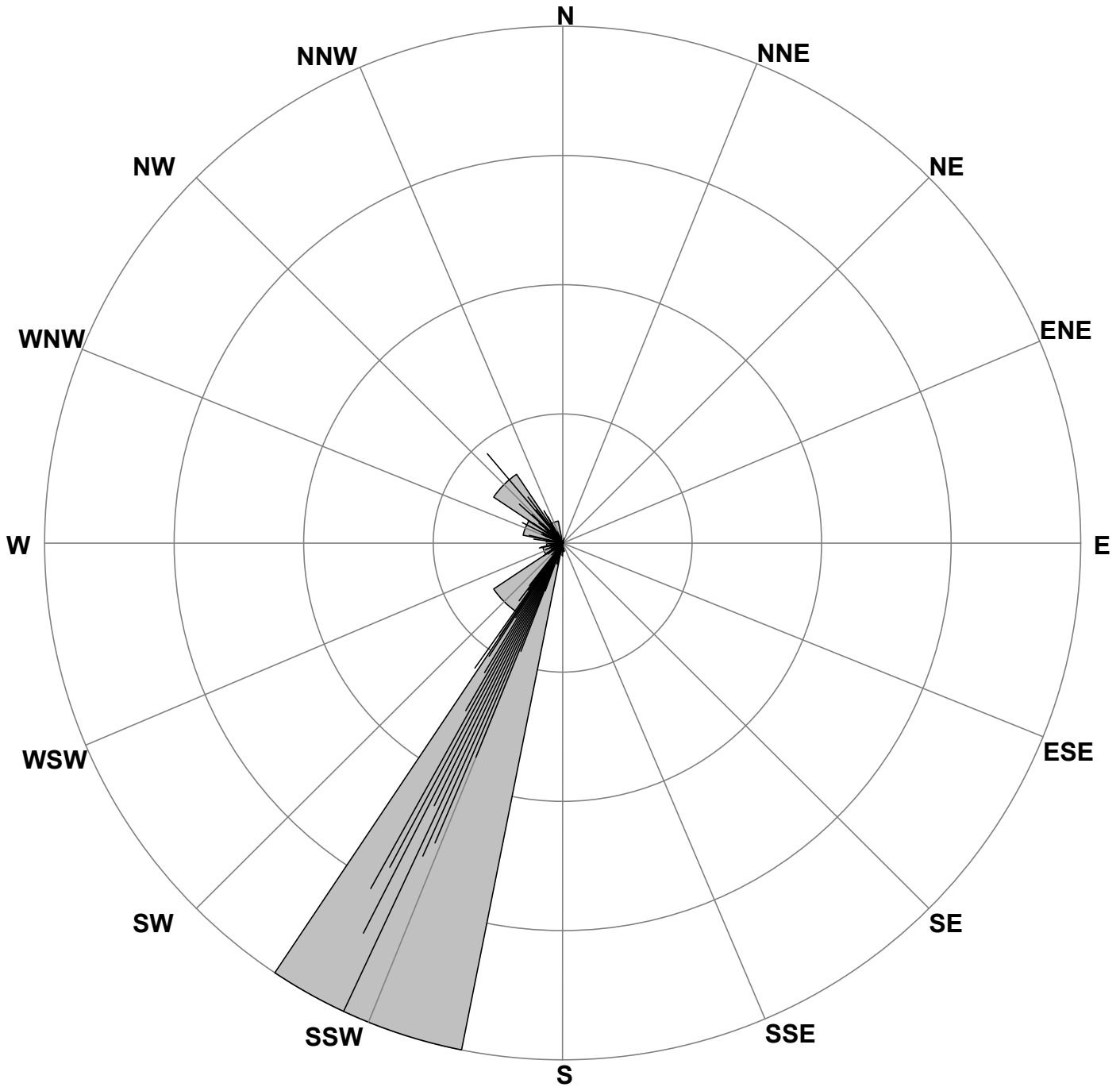
During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA

February 2018: Westford



**Wind Rose: February 2018
Westford**



**Maximum direction of wind: 173.2 miles from 205°
Maximum sector of wind: 1258.3 miles from SSW
1927.9 total miles of wind**