

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

March 2014

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			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	27.9	-3.8	12.0	16.9	1	50	53	0	.....	11	0.00	0.0	30.38	29.98	30.162	4.3	4.3	210	29	SW	15	210	82
2	27.1	3.6	15.4	14.6	7	73	49	0	.....	12	0.06	2.5	30.13	29.99	30.070	1.1	1.0	328	20	NW	13	313	108
3	12.0	-5.8	3.1*	4.2	-6	62	62	0	.....	12	0.00	0.0	30.31	30.05	30.197	1.1	1.0	318	17	WNW	10	296	174
4	18.8	-5.4	6.7	7.4	-2	66	58	0	.....	11	0.01	0.2	30.33	30.25	30.293	0.2	0.1	214	9	S	5	207	118
5	17.9	-1.8	8.0	9.7	4	77	57	0	.....	11	0.01	0.5	30.59	30.26	30.383	0.2	0.2	338	14	NW	6	328	147
6	25.0	-7.9*	8.5	9.2	-7	53	56	0	.....	11	0.00	0.0	30.69	30.42	30.577	0.1	0.0	233	8	S	2	305	184
7	36.0	14.2	25.1	25.9	4	40	40	0	.....	11	0.00	0.0	30.42	29.86	30.137	4.3	4.3	210	23	WSW	12	217	185
8	33.8	18.7	26.3	28.0	19	70	38	0	.....	11	T	T	29.90	29.77	29.838	1.0	0.5	230	15	SSW	7	203	44
9	27.4	8.0	17.7	18.6	7	62	47	0	.....	11	0.00	0.0	30.00	29.82	29.921	0.4	0.4	325	13	NW	6	313	197
10	34.1	19.3	26.7	26.9	23	84	38	0	.....	12	0.11	1.3	29.83	29.43	29.666	2.4	2.4	201	25	W	10	212	45
11	40.7	31.2	36.0	35.6	30	82	29	0	.....	11	0.07	T	29.68	29.39	29.528	2.2	1.7	243	22	SSW	10	291	45
12	33.3	12.3	22.8	23.7	21	88	42	0	.....	20	0.76	9.0	29.69	29.32	29.548	1.8	1.8	18	25	NNE	12	20	12
13	13.5	3.5	8.5	7.6	3	80	56	0	.....	24	0.34	6.5	29.95	29.33	29.626	3.9	3.5	341	24	NNE	12	325	54
14	36.2	2.2	19.2	18.9	9	64	46	0	.....	24	0.00	0.0	30.04	29.64	29.884	6.3	6.3	202	41	SSE	18	199	116
15	41.7	22.9	32.3	35.2	27	73	32	0	.....	24	0.33	3.7	29.88	29.52	29.639	4.9	3.8	223	29	SSW	15	204	27
16	22.9	1.6	12.2	10.9	0	62	52	0	.....	22	0.00	0.0	30.24	29.88	30.128	3.5	3.5	321	22	WNW	14	321	124
17	20.7	-4.5	8.1	8.0	-5	58	57	0	.....	22	0.00	0.0	30.23	30.12	30.173	0.4	0.3	312	12	W	7	292	202
18	35.0	-1.6	16.7	16.6	2	55	48	0	.....	21	0.00	0.0	30.33	30.19	30.280	0.2	0.1	348	9	N	4	294	210
19	37.3	15.8	26.5	28.7	13	53	38	0	.....	20	T	T	30.28	29.82	30.101	2.9	2.9	190	21	SSE	11	193	69
20	37.4	30.6	34.0	33.8	29	82	31	0	.....	20	0.09	0.7	29.82	29.55	29.614	4.5	4.0	236	28	WNW	13	255	43
21	35.9	23.9	29.9	29.4	19	66	35	0	.....	20	T	T	29.98	29.62	29.818	4.0	3.8	294	26	WNW	16	307	110
22	33.7	18.5	26.1	27.1	22	80	38	0	.....	20	0.04	0.2	29.99	29.55	29.793	2.6	1.6	242	28	S	17	305	37
23	32.1	7.0	19.5	18.0	8	64	45	0	.....	20	T	T	30.15	29.85	30.033	3.4	2.7	315	23	NW	14	322	206
24	24.6	2.8	13.7	12.7	-2	53	51	0	.....	19	0.00	0.0	30.20	30.05	30.125	0.9	0.8	321	15	NW	9	312	221
25	31.9	5.9	18.9	19.8	7	58	46	0	.....	19	0.00	0.0	30.08	29.92	29.991	1.8	1.8	206	19	S	9	215	212
26	24.1	13.7	18.9	19.5	8	61	46	0	.....	19	0.00	0.0	30.11	29.86	29.931	4.1	4.0	323	33	W	18	311	127
27	33.0	5.9	19.5	21.9	4	47	45	0	.....	19	0.00	0.0	30.29	30.08	30.191	2.2	1.8	224	20	NW	10	212	190
28	41.8*	29.9	35.8	35.9	32	85	29	0	.....	17	0.00	T	30.08	29.76	29.894	7.9	7.8	203	32	SW	17	213	28
29	41.7	33.5	37.6*	36.9	32	84	27	0	.....	15	0.00	0.0	30.27	30.00	30.155	0.4	0.3	8	16	NW	6	299	101
30	38.7	28.3	33.5	33.8	32	95	31	0	...4.6...	14	0.72	T	30.00	29.79	29.843	1.7	1.7	22	18	N	8	20	55	
31	36.0	27.2	31.6	30.3	26	85	33	0	.....	14	0.00	0.0	30.17	29.90	30.045	3.0	2.9	14	22	NNE	10	21	74
Sum	Sum	-----	-----	---	----	Ttl	Ttl						For the month:						---					
952	350					1355	0	Number of Days		2.54	24.6	30.69	29.32	29.987	2.5	1.2	249	41	SSE	18	199			
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl	Date	Date	-----	----	----	----	Date	Date	Avg					
30.7	11.3	21.0	21.5	12	68.2	----	----	≥.01 inch	11	8.19	88.2	6	12	-----	----	----	----	14	14	114				
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			7323	0	Thunder	0	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----			Heavy Fog	0	0.00	-	9.0	12	24			13+							
0	14	30	7	----	----			Clear	7	Partly Cloudy		6	Cloudy		18									

NOTES:
 Units are: 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/m² 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

March 2014: Westford

Hour	MAR 01									MAR 02									MAR 03								
	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
01	0	30.37	0.00	-3	-10	70	12	0	0	0	30.00	0.00	26	15	61	25	1	9	0	30.06	0.00	6	-3	66	33	0	0
04	0	30.32	0.00	4	-7	59	20	1	6	0	30.04	0.00	19	16	88	32	8	16	0	30.08	0.00	3	-3	76	25	0	0
07	23	30.28	0.00	9	-5	53	21	0	0	7	30.09	0.00	13	10	86	02	1	8	16	30.14	0.00	1	-4	81	29	2	9
10	160	30.22	0.00	17	-0	46	21	5	12	95	30.11	0.00	15	9	76	33	2	5	515	30.20	0.00	6	-6	57	33	7	15
13	304	30.10	0.00	23	1	39	21	6	24	260	30.06	0.00	18	8	65	35	1	9	635	30.22	0.00	11	-6	47	35	1	6
16	197	30.05	0.00	27	6	40	21	6	16	141	30.07	0.00	15	3	57	33	0	4	269	30.24	0.00	12	-6	45	00	1	4
19	0	30.02	0.00	27	9	46	20	7	14	0	30.07	0.00	7	-0	72	03	0	0	0	30.29	0.00	2	-9	61	05	0	0
22	0	30.00	0.00	28	12	51	20	4	13	0	30.07	0.00	6	-2	69	03	0	0	0	30.30	0.00	-4	-13	66	06	0	0
MAR 04									MAR 05									MAR 06									
01	0	30.30	0.00	-3	-11	68	29	0	0	0	30.27	0.00	10	7	89	06	0	0	0	30.59	0.00	-4	-8	83	03	0	0
04	0	30.30	0.00	-3	-11	67	21	0	2	0	30.27	0.00	10	7	89	02	0	0	0	30.61	0.00	-7	-11	82	03	0	0
07	18	30.33	0.00	-4	-9	76	20	0	0	18	30.29	0.00	6	3	88	02	0	0	16	30.66	0.00	-6	-10	82	03	0	0
10	431	30.33	0.00	11	-4	51	18	2	7	323	30.34	0.00	15	7	71	32	0	4	541	30.68	0.00	12	-10	35	00	0	2
13	341	30.27	0.00	16	-2	44	22	0	1	636	30.36	0.00	16	6	67	32	1	11	659	30.61	0.00	21	-8	27	35	0	1
16	102	30.27	0.00	17	1	49	32	0	7	274	30.42	0.00	16	5	62	02	1	11	288	30.55	0.00	24	-3	30	28	0	1
19	0	30.29	0.00	11	7	84	30	0	0	0	30.50	0.00	5	-1	74	00	0	0	0	30.50	0.00	14	-2	49	21	0	0
22	0	30.27	0.00	10	7	88	04	0	0	0	30.56	0.00	1	-6	73	03	0	0	0	30.45	0.00	11	-3	52	20	0	1
MAR 07									MAR 08									MAR 09									
01	0	30.40	0.00	14	-3	45	19	0	3	0	29.86	0.00	29	17	60	20	4	10	0	29.89	0.00	16	9	74	03	0	0
04	0	30.31	0.00	16	-7	35	21	3	7	0	29.80	0.00	31	20	64	21	3	8	0	29.89	0.00	12	8	83	00	0	0
07	16	30.26	0.00	17	-4	39	19	6	19	12	29.78	0.00	31	22	70	22	0	2	0	29.94	0.00	8	4	84	02	0	0
10	548	30.22	0.00	25	1	36	21	10	22	88	29.82	0.00	32	24	74	34	1	5	417	29.99	0.00	19	7	59	01	0	3
13	659	30.10	0.00	33	5	30	22	4	16	84	29.82	0.00	29	26	89	33	2	11	680	29.99	0.00	23	7	51	00	0	9
16	281	30.01	0.00	36	10	34	21	7	14	84	29.84	0.00	29	19	67	01	0	7	461	29.93	0.00	27	6	42	02	1	5
19	0	29.97	0.00	32	13	45	21	3	10	0	29.88	0.00	21	14	73	01	0	0	0	29.90	0.00	21	5	49	00	0	0
22	0	29.91	0.00	31	15	53	21	3	8	0	29.89	0.00	22	12	64	31	1	4	0	29.85	0.00	21	9	60	01	0	0
MAR 10									MAR 11									MAR 12									
01	0	29.81	0.00	19	17	89	18	1	4	0	29.42	0.00	33	31	96	20	5	15	0	29.66	0.00	30	26	86	03	0	0
04	0	29.73	0.00	20	18	92	20	2	9	0	29.39	0.00	33	32	95	20	4	10	0	29.66	0.00	32	27	82	00	0	0
07	0	29.72	0.00	21	19	91	21	3	7	0	29.44	0.00	36	33	89	25	4	12	0	29.68	0.00	30	28	91	05	0	0
10	32	29.72	0.00	24	21	88	19	3	9	35	29.50	0.00	37	33	85	26	1	9	35	29.68	0.00	27	24	89	01	4	11
13	169	29.69	0.00	29	24	79	19	2	7	72	29.55	0.00	38	31	77	28	4	10	39	29.61	0.00	23	21	90	01	4	16
16	139	29.62	0.00	33	25	73	18	1	8	265	29.58	0.00	40	30	66	31	1	9	25	29.43	0.00	19	16	91	00	3	15
19	0	29.58	0.00	33	26	74	19	0	6	0	29.63	0.00	38	28	68	31	1	5	0	29.38	0.00	15	13	91	02	3	16
22	0	29.51	0.00	32	30	91	20	9	17	0	29.66	0.00	33	26	77	02	0	0	0	29.36	0.00	15	12	91	00	1	16
MAR 13									MAR 14									MAR 15									
01	0	29.38	0.00	9	7	89	34	6	19	0	29.97	0.00	4	-4	69	20	0	4	0	29.60	0.00	37	22	53	20	9	24
04	0	29.42	0.00	6	4	89	35	2	16	0	30.00	0.00	5	-4	68	22	0	0	0	29.56	0.00	37	23	56	19	7	17
07	0	29.50	0.00	4	2	88	00	5	17	0	30.04	0.00	3	-4	71	21	0	3	0	29.54	0.00	38	25	59	21	8	17
10	47	29.58	0.00	5	2	87	00	5	16	207	30.02	0.00	14	6	69	20	4	13	107	29.55	0.00	40	29	65	21	4	15
13	104	29.64	0.00	8	4	85	30	1	20	392	29.91	0.00	22	11	62	20	8	19	53	29.59	0.00	40	31	71	25	4	11
16	192	29.69	0.00	13	6	75	32	2	16	329	29.78	0.00	28	15	58	20	12	34	19	29.65	0.00	34	31	89	01	0	3
19	0	29.80	0.00	9	-0	65	29	2	15	0	29.72	0.00	32	20	63	20	14	32	0	29.73	0.00	30	28	92	33	1	10
22	0	29.92	0.00	7	-2	65	26	1	4	0	29.70	0.00	34	21	59	19	12	34	0	29.83	0.00	26	25	94	31	2	14
MAR 16									MAR 17									MAR 18									
01	0	29.91	0.00	19	14	80	33	7	19	0	30.22	0.00	2	-7	66	29	0	0	0	30.20	0.00	3	-4	74	02	0	0
04	0	29.98	0.00	14	8	76	34	2	10	0	30.19	0.00	1	-8	67	31	0	0	0	30.23	0.00	1	-5	75	02	0	0
07	0	30.08	0.00	9	3	76	33	1	9	0	30.19	0.00	-3	-9	75	31	0	0	5	30.28	0.00	3	-3	77	04	0	0
10	167	30.17	0.00	10	0	64	32	6	14	457	30.20	0.00	10	-5	51	21	0	0	459	30.32	0.00	15	-1	49	05	1	4
13	404	30.18	0.00	14	-2	49	33	5	13	686	30.16	0.00	15	-4	42	30	4	10	717	30.31	0.00	27	0	31	30	1	3
16	202	30.18	0.00	12	-2	52	33	4	15	499	30.13	0.00	21	-1	38	34	1	4	501	30.29	0.00	33	6	32	02	0	8
19	5	30.20	0.00	8	-6	53	32	1	10	0	30.13	0.00	14	-2	48	05	0	0	5	30.30	0.00	27	11	51	05	0	0
22	0	30.23	0.00	3	-9	56	33	0	0	0	30.18	0.00	6	-2	71	02	0	0	0	30.30	0.00	22	10	58	07	0	0

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	01	01	01	01	01	01	01	01	01	01	01	01
Ended: Time	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000

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.

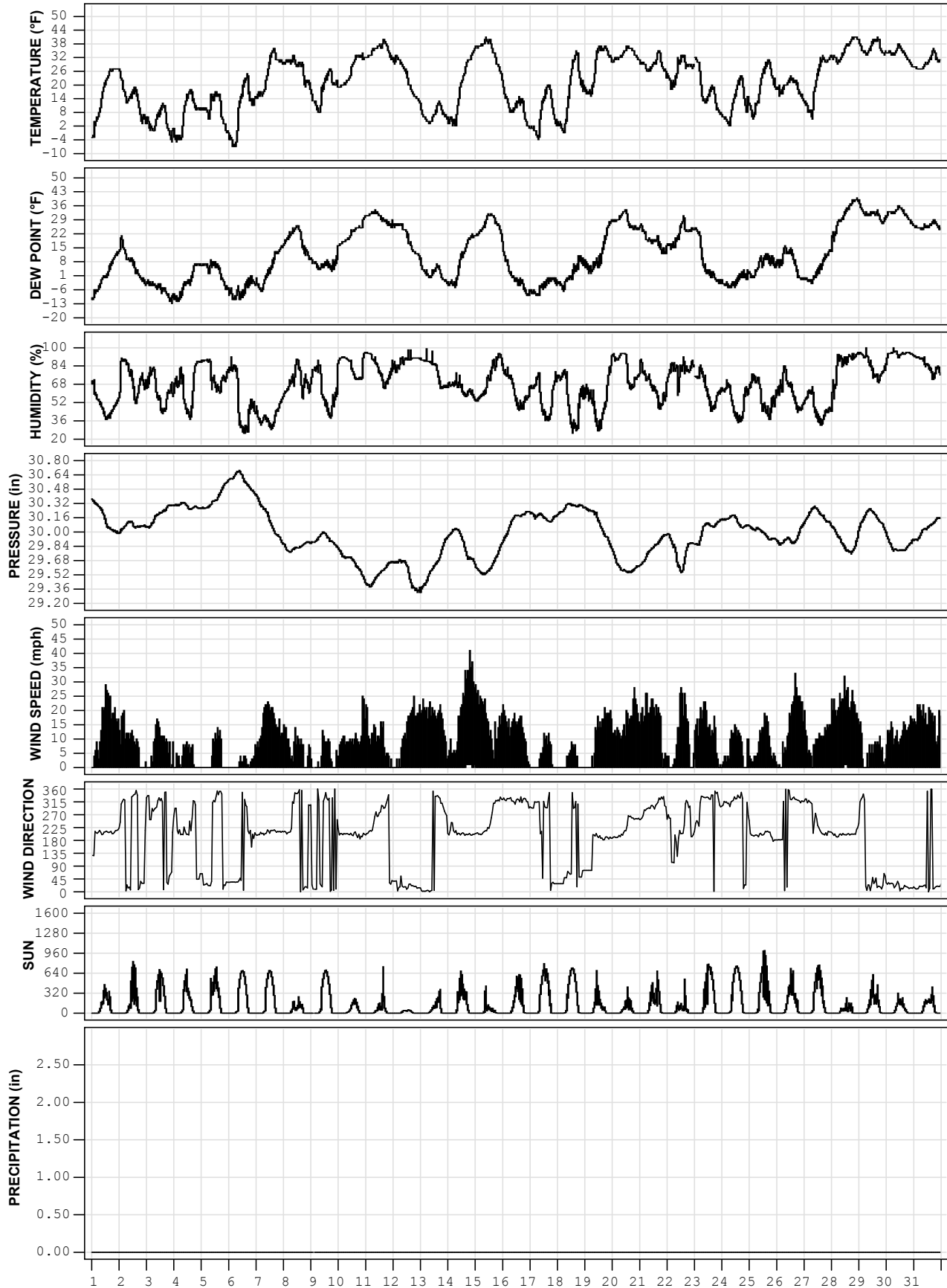
HOURLY PRECIPITATION (Water Equivalent) March 2014: Westford

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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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

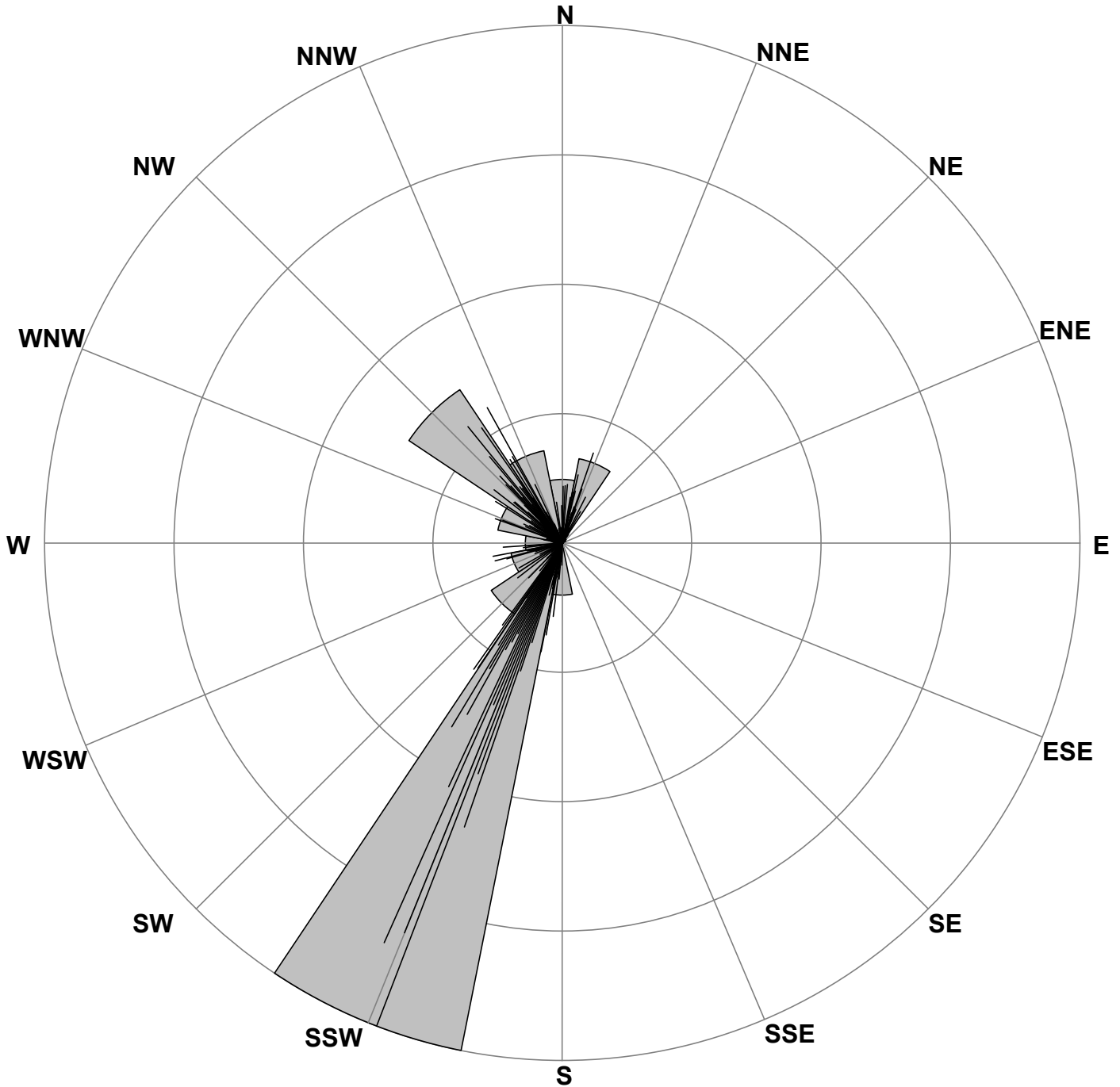
During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA

March 2014: Westford



**Wind Rose: March 2014
Westford**



**Maximum direction of wind: 103.9 miles from 201°
Maximum sector of wind: 777.2 miles from SSW
1864.9 total miles of wind**