

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

March 2010

Station: Westford
 Latitude: 44° 37' 39" N Longitude: 73° 02' 29" W Elevation (Ground): 850 feet Time Zone: Eastern

Date	Temperature					Humidity Mean	Deg. Days		Precip Ty 1 fog 2 hv 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						Sun Mean Index	
	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		Minute		
																			Speed	Dir	Speed		Dir	Speed	Dir
1	2	3	4A	4B	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	37.0	31.0	34.0	33.7	30	86	31	0	.....	10	0.05	0.8	29.88	29.64	29.750	3.0	3.0	1	18	NE	9	330
2	43.2	28.5	35.9	34.9	27	74	29	0	.....	9	0.00	0.0	29.94	29.82	29.889	1.2	1.0	356	13	N	6	337
3	36.3	25.4	30.8	31.3	25	77	34	0	.....	9	0.00	0.0	29.83	29.68	29.744	1.5	1.4	349	17	NNE	7	18
4	36.9	20.6	28.8	29.5	20	68	36	0	.....	9	0.00	0.0	29.94	29.68	29.796	2.8	2.8	17	22	NE	11	30
5	34.2	19.6	26.9	26.5	14	59	38	0	.....	9	0.00	0.0	30.17	29.94	30.087	2.0	2.0	11	18	NE	8	32
6	45.3	19.0	32.1	33.2	12	44	33	0	.....	7	0.00	0.0	30.17	29.98	30.094	1.5	1.2	306	15	WNW	8	301
7	49.0	29.8	39.4	38.7	24	56	25	0	.....	6	0.00	0.0	29.98	29.79	29.875	3.5	3.4	252	16	WSW	11	257
8	46.3	34.5	40.4	40.1	27	59	24	0	.....	5	0.00	0.0	29.80	29.69	29.750	6.0	5.2	283	26	WNW	18	302
9	39.4	23.2	31.3	31.4	18	58	34	0	.....	5	0.00	0.0	29.99	29.78	29.914	1.9	1.8	334	15	NW	9	311
10	45.3	20.6	32.9	32.6	16	52	32	0	.....	3	0.00	0.0	30.07	29.99	30.031	0.6	0.2	268	7	WNW	5	311
11	53.4	25.4	39.4	38.3	22	53	26	0	.....	2	0.00	0.0	30.11	30.06	30.078	0.6	0.3	195	10	SSW	6	214
12	46.9	35.5	41.2	40.7	32	70	23	0	.....	2	0.00	0.0	30.19	30.10	30.161	1.3	1.2	173	16	S	10	193
13	49.8	30.7	40.3	41.2	20	43	24	0	.....	2	0.00	0.0	30.17	29.96	30.091	1.1	0.5	137	13	SSE	7	172
14	45.1	36.2	40.6	40.6	32	72	24	0	.....	1	0.15	0.0	29.97	29.84	29.875	1.9	1.8	19	19	NNE	8	27
15	54.2	33.6	43.9	39.9	27	63	21	0	.....	1	0.03	0.0	29.99	29.81	29.887	1.1	1.0	4	17	N	9	22
16	55.1	26.1	40.6	41.6	24	52	24	0	.....	1	0.00	0.0	30.04	29.98	30.000	0.8	0.8	349	14	NW	6	347
17	57.5	31.5	44.5	46.0	27	49	20	0	.....	T	0.00	0.0	29.99	29.73	29.885	3.1	2.6	266	17	W	11	267
18	55.8	41.0	48.4	47.4	31	54	16	0	.....	T	0.00	0.0	29.73	29.64	29.671	3.6	3.3	259	20	WNW	12	261
19	63.0*	36.4	49.7*	50.5	33	54	15	0	.....	0	0.00	0.0	29.78	29.69	29.721	3.4	3.0	227	22	SSW	13	218
20	52.2	36.5	44.4	44.3	34	66	20	0	.....	0	T	0.0	30.12	29.76	29.919	2.3	1.4	278	14	WNW	9	309
21	37.5	31.4	34.4	33.9	28	78	30	0	.2.4.....	0	0.04	T	30.19	30.05	30.121	0.2	0.1	358	8	NNE	4	215	
22	41.2	31.5	36.4	36.6	35	94	28	0	.2.....	0	0.46	0.0	30.10	29.95	30.038	0.6	0.6	23	12	NE	5	24	
23	42.9	30.4	36.7	38.6	37	93	28	0	.2.....	0	1.13	0.0	29.96	29.52	29.661	2.2	1.7	6	21	NE	10	326	
24	45.4	28.7	37.1	34.2	28	81	28	0	.....	0	0.11	1.1	29.87	29.54	29.706	5.0	4.4	317	23	NW	13	314
25	52.7	31.9	42.3	41.8	28	59	22	0	.....	0	0.00	0.0	29.89	29.66	29.785	5.5	4.5	219	27	S	16	209
26	33.6	13.6	23.6*	21.0	5	50	41	0	.....	0	0.00	0.0	30.22	29.75	30.012	3.4	3.4	10	25	NNE	10	324
27	35.9	12.9*	24.4	24.8	7	48	40	0	.....	0	0.00	0.0	30.44	30.22	30.334	1.1	0.4	271	13	WSW	6	292
28	42.3	28.6	35.4	36.1	20	53	29	0	.....	0	0.10	0.0	30.27	29.99	30.130	7.0	6.9	205	34	SW	19	213
29	47.8	35.7	41.8	40.4	38	92	23	0	.....	0	0.43	0.0	29.99	29.71	29.811	2.4	1.2	215	16	N	12	332
30	40.0	32.9	36.5	37.2	36	93	28	0	.....	0	0.25	0.0	29.94	29.74	29.851	2.5	2.5	24	17	NNE	8	27
31	44.6	36.3	40.4	40.3	39	94	24	0	.2.....	0	0.11	0.0	30.00	29.72	29.852	1.2	1.2	356	14	N	7	18	
Sum	Sum	-----	-----	---	----	Ttl	Ttl															---	
1410	899					850	0		Number of Days		2.86	1.9	30.44	29.52	29.920	2.4	0.9	291	34	SW	19	213	
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip		Season Ttl	Date	Date	-----	----	----	---		Date	Date		Avg	
45.5	29.0	37.2	37.0	26	66.0	----	----		≥.01 inch	11	8.26	103.3	27	23	-----	----	----	---	28	28			
Number of Days						Season to Date	Snow, Ice ≥1.0 inch	1	Greatest in 24 Hours and Dates						Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date								
Max Temperature			Min Temperature			6281	0	Thunder	0	Precipitation			Snow, Ice Plts										
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	4	1.50	22-23	1.1	24	10						1					
0	0	21	0	----	----	Clear	9	Partly Cloudy			6	Cloudy			16								

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: Sunshine index 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 2010: 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
MAR 01									MAR 02									MAR 03									
01		29.65	0.00	31	30	93	00	2	8	29.87	0.00	34	29	83	03	1	3	29.83	0.00	32	26	76	36	0	0		
04		29.65	0.00	31	30	93	35	4	10	29.88	0.00	32	27	84	35	0	3	29.79	0.00	32	26	78	35	0	2		
07		29.68	0.00	31	29	93	01	4	11	29.91	0.00	29	26	89	33	0	0	29.79	0.00	27	23	86	30	2	4		
10		29.73	0.00	33	30	91	00	4	10	29.93	0.00	33	27	79	31	4	8	29.76	0.00	30	24	80	30	2	6		
13		29.75	0.00	35	30	82	35	3	13	29.89	0.00	41	28	60	33	2	9	29.71	0.00	35	27	72	35	1	7		
16		29.79	0.00	37	30	77	35	3	8	29.89	0.00	40	27	59	01	3	11	29.68	0.00	36	28	71	01	3	13		
19		29.85	0.00	36	30	79	00	5	11	29.88	0.00	35	27	72	03	1	5	29.72	0.00	30	24	77	03	2	9		
22		29.87	0.00	35	30	81	02	2	6	29.85	0.00	33	26	74	04	0	2	29.71	0.00	30	24	76	02	2	7		
MAR 04									MAR 05									MAR 06									
01		29.69	0.00	27	21	78	03	0	6	29.96	0.00	26	16	66	02	3	8	30.17	0.00	20	11	67	05	0	1		
04		29.70	0.00	23	17	79	01	0	2	29.99	0.00	22	15	73	03	1	6	30.16	0.00	24	12	58	05	0	2		
07		29.75	0.00	22	17	81	04	3	7	30.05	0.00	20	12	70	02	1	6	30.17	0.00	23	13	66	04	0	0		
10		29.77	0.00	32	20	63	03	5	16	30.10	0.00	30	13	50	00	4	11	30.17	0.00	39	12	32	03	2	5		
13		29.78	0.00	35	24	63	34	5	12	30.11	0.00	34	16	48	35	5	14	30.08	0.00	44	11	26	32	3	10		
16		29.82	0.00	35	23	60	02	3	13	30.12	0.00	33	17	51	00	4	13	30.03	0.00	44	14	29	34	2	9		
19		29.90	0.00	31	19	62	02	3	8	30.17	0.00	26	12	55	04	1	4	30.02	0.00	37	12	36	29	0	4		
22		29.92	0.00	29	17	61	02	4	15	30.17	0.00	24	11	57	04	0	3	30.00	0.00	34	12	41	25	4	7		
MAR 07									MAR 08									MAR 09									
01		29.98	0.00	32	19	57	26	1	4	29.79	0.00	39	25	58	25	6	15	29.80	0.00	33	18	55	32	0	4		
04		29.95	0.00	32	21	62	25	3	9	29.76	0.00	38	26	63	25	5	10	29.82	0.00	29	16	59	33	4	9		
07		29.95	0.00	31	19	61	20	0	4	29.78	0.00	35	26	68	25	6	11	29.90	0.00	27	16	63	32	1	6		
10		29.92	0.00	40	23	51	28	1	5	29.77	0.00	41	28	61	24	8	13	29.94	0.00	33	18	54	32	6	11		
13		29.84	0.00	45	28	51	26	4	11	29.72	0.00	45	25	45	30	15	25	29.93	0.00	37	18	46	34	3	8		
16		29.79	0.00	48	30	49	25	4	9	29.70	0.00	46	27	48	30	10	20	29.93	0.00	39	20	46	01	4	8		
19		29.80	0.00	41	28	60	26	1	6	29.73	0.00	41	28	60	29	5	13	29.98	0.00	29	19	65	04	0	3		
22		29.79	0.00	40	28	62	24	4	9	29.77	0.00	37	25	62	34	2	8	29.98	0.00	25	17	70	07	0	0		
MAR 10									MAR 11									MAR 12									
01		30.00	0.00	25	16	67	19	1	3	30.06	0.00	26	16	65	07	0	2	30.12	0.00	36	28	73	07	0	2		
04		30.00	0.00	24	14	66	18	0	0	30.07	0.00	27	17	65	06	0	0	30.12	0.00	36	30	81	06	0	0		
07		30.03	0.00	21	14	74	18	0	0	30.07	0.00	28	16	60	08	0	4	30.14	0.00	37	30	74	08	0	1		
10		30.06	0.00	38	19	45	18	0	1	30.09	0.00	43	20	39	04	0	4	30.17	0.00	43	33	66	05	0	4		
13		30.04	0.00	41	15	34	07	2	6	30.07	0.00	52	25	35	21	3	8	30.17	0.00	45	35	67	16	1	5		
16		30.01	0.00	45	12	26	34	1	3	30.07	0.00	51	27	39	19	3	6	30.18	0.00	45	35	68	16	5	12		
19		30.04	0.00	34	17	48	02	0	0	30.09	0.00	41	29	61	10	0	0	30.19	0.00	40	33	76	14	0	5		
22		30.06	0.00	28	18	65	07	0	0	30.09	0.00	37	27	67	10	0	0	30.18	0.00	41	28	59	17	4	11		
MAR 13									MAR 14									MAR 15									
01		30.16	0.00	38	24	55	16	3	7	29.96	0.00	40	15	37	03	3	14	29.84	0.00	35	32	91	00	0	0		
04		30.14	0.00	38	20	47	15	2	7	29.90	0.00	39	21	48	34	1	5	29.82	0.00	34	32	91	01	0	0		
07		30.15	0.00	32	23	69	08	0	0	29.86	0.00	40	29	65	35	0	5	29.84	0.00	34	31	87	31	0	0		
10		30.15	0.00	41	19	42	02	2	4	29.88	0.00	41	33	75	02	3	11	29.88	0.00	38	30	71	32	3	5		
13		30.08	0.00	47	16	29	15	2	6	29.86	0.00	44	35	70	00	2	10	29.89	0.00	45	28	51	35	2	7		
16		30.06	0.00	47	23	39	16	0	1	29.85	0.00	43	37	82	05	3	7	29.89	0.00	54	23	30	00	1	17		
19		30.03	0.00	44	18	35	04	2	6	29.86	0.00	40	37	88	02	2	14	29.94	0.00	43	22	43	02	0	4		
22		29.99	0.00	42	14	32	07	1	7	29.87	0.00	40	36	87	35	1	10	29.98	0.00	38	21	50	06	0	0		
MAR 16									MAR 17									MAR 18									
01		29.98	0.00	35	18	50	05	0	1	29.98	0.00	38	26	61	33	0	2	29.72	0.00	46	27	47	24	5	12		
04		29.98	0.00	33	21	60	05	0	1	29.96	0.00	38	25	60	20	1	4	29.66	0.00	44	26	50	24	4	14		
07		30.01	0.00	26	18	72	05	0	0	29.95	0.00	37	25	60	19	2	5	29.66	0.00	43	27	53	25	5	10		
10		30.04	0.00	42	27	56	01	0	3	29.95	0.00	47	27	45	24	2	7	29.67	0.00	46	30	53	27	6	14		
13		30.02	0.00	52	24	34	34	5	9	29.91	0.00	52	27	37	33	5	11	29.66	0.00	54	34	47	27	4	11		
16		29.98	0.00	55	27	34	01	2	8	29.83	0.00	57	27	31	30	6	11	29.64	0.00	55	35	46	32	2	6		
19		29.99	0.00	44	28	52	33	0	0	29.78	0.00	51	29	44	24	1	4	29.66	0.00	49	35	59	03	0	1		
22		30.00	0.00	39	28	65	33	0	1	29.76	0.00	50	30	47	25	7	17	29.69	0.00	43	35	72	12	0	1		

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.03	0.06	0.08	0.10	0.13	0.17	0.20	0.25	0.31	0.38	0.45	0.52
Ended: Date	23	23	23	23	23	23	23	23	23	23	23	23
Ended: Time	0505	0638	0642	0647	0651	0654	0654	0647	0640	0647	0706	0734

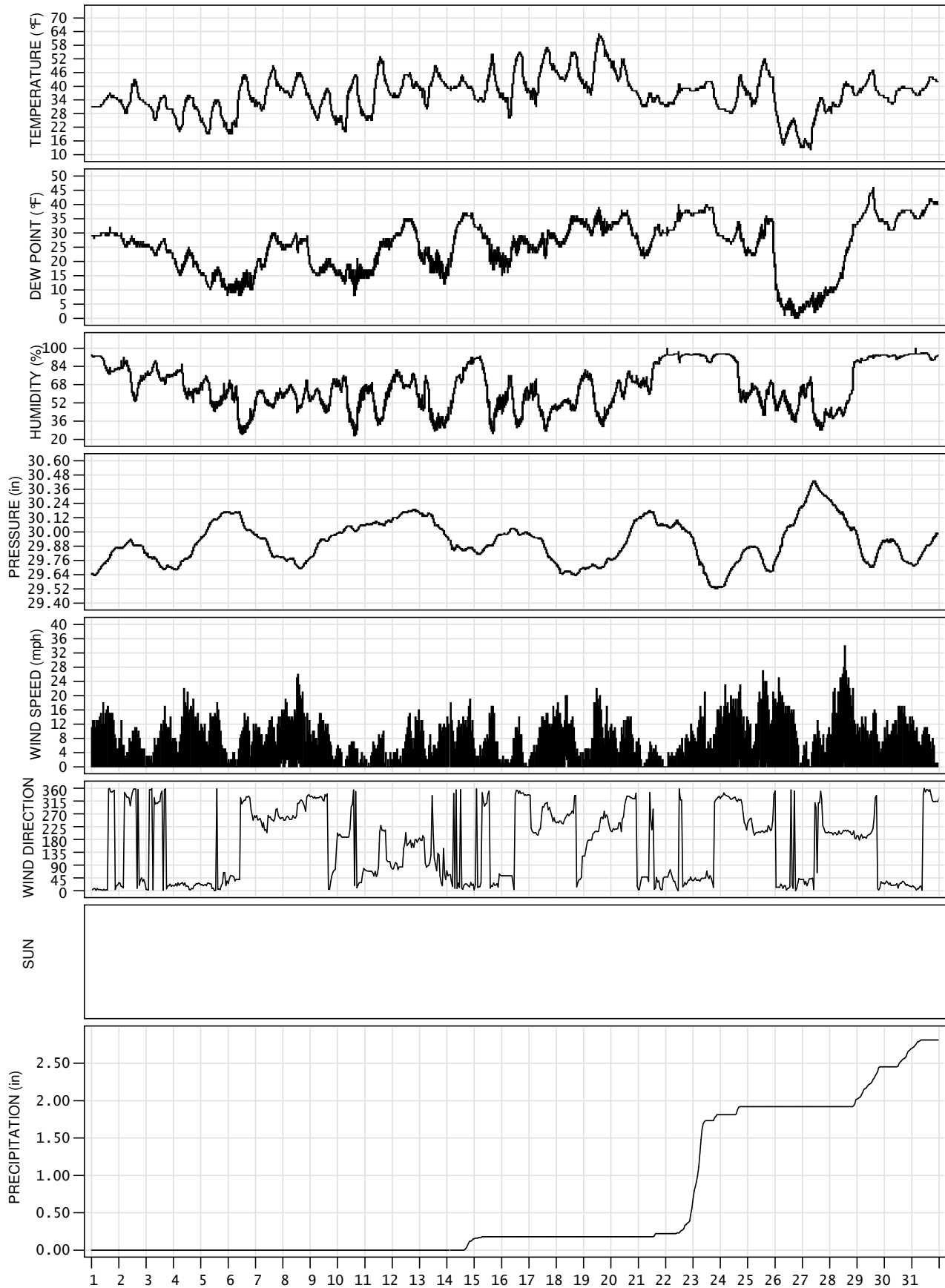
The precipitation amounts may occur at any time during the month. The time indicated is the ending time of the interval. Date and time are not entered for trace amounts.

HOURLY PRECIPITATION (Water Equivalent) March 2010: Westford

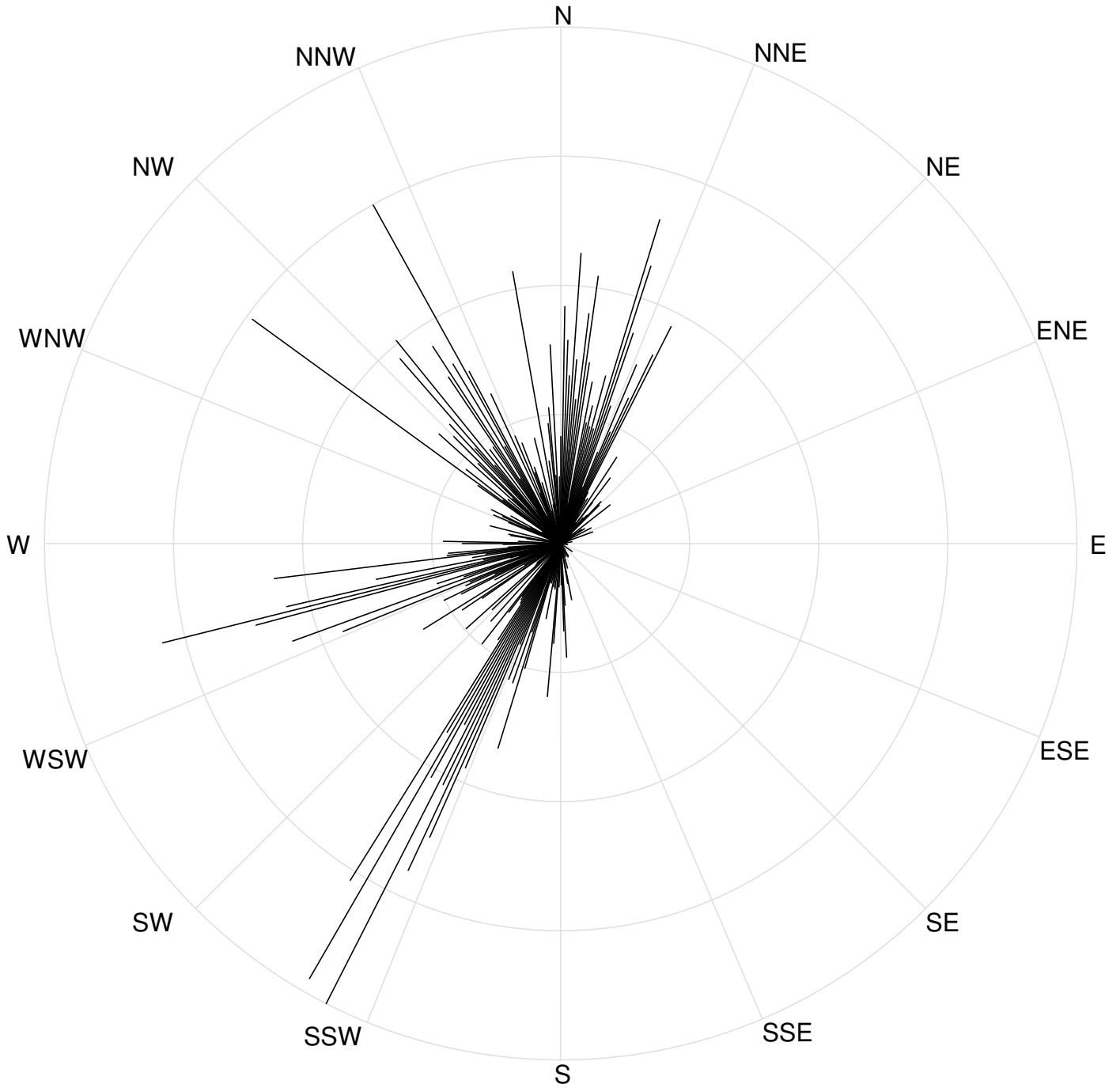
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date	
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12		
01																								01		
02																									02	
03																									03	
04																									04	
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11																									11	
12																									12	
13																									13	
14																									14	
15	0.01			0.01			0.01								0.01	0.02	0.03	0.03	0.03		0.01	0.02		15		
16																									16	
17																									17	
18																									18	
19																									19	
20																									20	
21																									21	
22														0.01	0.01	0.03									22	
23	0.11	0.06	0.06	0.08	0.12	0.18	0.19	0.13	0.08	0.01	0.01		0.02	0.01	0.01	0.02	0.04	0.01	0.02	0.01	0.02	0.02	0.08	0.08	0.13	23
24															0.01	0.05	0.04	0.01								24
25																										25
26																										26
27																										27
28																										28
29	0.01	0.01	0.01	0.03	0.03	0.04	0.01	0.01	0.02	0.02	0.01	0.01	0.02	0.03	0.02	0.03	0.03	0.03	0.05	0.01		0.01	0.03	0.05	0.01	29
30													0.01	0.04	0.02	0.01	0.02	0.01	0.01	0.02	0.04	0.03	0.01	0.02	0.01	30
31	0.01	0.01	0.02	0.02	0.03		0.01	0.01																		31
Sum	0.14	0.08	0.09	0.14	0.18	0.22	0.22	0.15	0.10	0.06	0.02	0.02	0.08	0.08	0.12	0.12	0.11	0.08	0.16	0.11	0.08	0.13	0.17	0.15	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 2010: Westford



Wind Rose: March 2010
Westford



Maximum direction of wind: 40.2 miles from 207°.
1780.6 total miles of wind.