

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

December 2011

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	Res	Res	Peak			Minute	
																				Speed	Speed		Dir	Speed	Dir	Speed	Dir
1	2	3	4A	4B	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	34.6	23.9	29.2	28.6	21	74	35	0	.....	0	0.01	T	30.28	29.86	30.168	1.5	1.2	331	17	WNW	10	305	65
2	36.2	27.0	31.6	31.5	26	80	33	0	.....	1	0.01	1.0	30.53	30.21	30.289	3.3	2.0	236	16	NW	9	305	19
3	37.2	18.9	28.1	29.7	21	71	37	0	.....	0	0.03	0.0	30.65	30.44	30.562	2.6	2.4	199	20	S	12	194	70
4	47.5	35.8	41.6	41.9	30	62	23	0	.....	0	0.00	0.0	30.44	30.18	30.294	10.7	10.7	202	33	SSW	20	210	60
5	50.6*	44.1	47.3*	47.2	39	72	17	0	.....	0	0.10	0.0	30.23	30.07	30.171	5.3	5.3	208	23	S	14	210	15
6	44.2	31.6	37.9	36.8	35	94	27	0	.2.....	0	0.29	0.0	30.07	29.96	30.013	0.5	0.5	331	9	N	5	306	9	
7	34.5	29.8	32.1	32.3	31	95	32	0	.....	1	0.09	0.7	29.96	29.67	29.825	0.4	0.4	338	7	NW	4	330	14
8	34.7	24.2	29.5	29.0	23	79	35	0	.....	2	0.24	2.4	30.13	29.65	29.888	4.0	2.8	272	28	W	15	288	42
9	35.2	30.4	32.8	33.0	25	73	32	0	.....	2	0.00	0.0	30.21	30.10	30.146	6.1	6.1	208	21	SW	11	206	31
10	35.0	21.6	28.3	27.7	18	68	36	0	.....	2	0.00	1.2	30.38	30.08	30.240	3.1	2.6	287	17	WNW	11	327	56
11	32.3	15.8	24.0	26.0	16	67	41	0	.....	2	0.00	0.0	30.54	30.38	30.455	5.0	4.8	211	23	SSW	14	206	62
12	40.7	26.6	33.7	32.9	17	51	31	0	.....	1	0.00	0.0	30.47	30.37	30.409	5.6	5.6	211	26	S	13	210	66
13	37.1	24.7	30.9	31.3	21	67	34	0	.....	1	T	T	30.37	30.30	30.349	0.4	0.4	201	6	S	3	196	23
14	38.6	31.9	35.2	34.3	31	87	29	0	.2.....	T	0.02	0.2	30.38	30.11	30.301	0.8	0.8	189	18	S	8	194	24	
15	47.4	37.6	42.5	42.7	38	84	22	0	.....	0	0.20	0.0	30.11	29.50	29.722	10.9	10.8	202	36	S	19	194	7
16	46.9	26.7	36.8	36.9	30	76	28	0	.....	0	T	T	30.05	29.50	29.843	6.0	5.2	283	46	SW	23	249	15
17	26.7	5.0	15.9	16.6	11	79	49	0	.....	2	0.07	2.4	30.24	30.00	30.150	1.4	1.3	339	13	NW	7	318	19
18	20.5	0.2	10.4	9.9	1	68	54	0	.....	2	0.00	0.0	30.31	30.18	30.253	0.6	0.5	201	11	SSW	7	215	65
19	36.6	15.1	25.8	29.0	19	66	39	0	.....	1	0.06	T	30.18	29.75	29.885	8.3	7.6	212	36	SW	20	204	26
20	32.0	13.9	22.9	21.8	13	69	42	0	.....	1	T	T	30.22	29.88	30.106	2.3	2.1	327	25	NNW	12	320	55
21	45.2	21.5	33.4	36.0	32	85	31	0	...4....	0	0.23	T	30.08	29.53	29.801	5.2	5.2	204	20	S	10	207	10	
22	45.6	30.6	38.1	36.5	32	85	26	0	.....	0	0.11	0.0	30.06	29.53	29.906	2.4	2.0	285	23	NW	13	323	57
23	33.8	12.5	23.1	26.9	24	89	41	0	.....	2	0.20	2.2	30.27	29.89	30.032	1.5	1.4	342	19	WNW	9	322	5
24	13.8	0.6	7.2*	7.1	1	77	57	0	.....	2	T	0.4	30.51	30.27	30.434	0.1	0.1	5	6	N	2	3	47
25	30.9	3.8	17.3	22.3	16	78	47	0	.....	2	0.02	0.3	30.41	29.80	30.078	4.8	4.8	198	24	SSW	14	196	15
26	31.1	23.4	27.3	27.2	21	79	38	0	.....	3	0.00	0.7	30.16	29.80	30.060	3.0	1.9	286	16	NW	9	312	42
27	40.4	28.3	34.4	34.8	27	74	31	0	.....	2	0.28	0.0	30.04	29.15	29.717	5.9	5.8	205	25	SW	15	221	28
28	40.7	6.9	23.8	25.6	22	87	41	0	.....	7	0.42	7.5	29.72	29.14	29.375	5.5	4.8	274	23	NW	14	284	14
29	17.9	0.5	9.2	7.0	0	74	55	0	.....	5	0.00	0.0	30.04	29.72	29.905	1.8	1.7	272	16	W	10	287	65
30	28.0	-0.1*	13.9	13.8	9	81	51	0	.....	4	0.02	0.6	30.08	29.98	30.038	0.1	0.1	88	6	S	3	187	15
31	38.3	27.2	32.8	32.8	31	91	32	0	.2.....	1	0.14	0.0	29.98	29.80	29.887	0.5	0.3	197	9	S	5	190	15	
Sum	Sum	-----	-----	---	----	Ttl	Ttl						For the month:										---	
1114	640					1126	0						2.54	19.6	30.65	29.14	30.074	3.5	2.5	228	46	SW	23	249
Avg	Avg	Avg	Mean	Avg	Avg	----	----						Season Ttl	Date	Date	-----	----	---	Date	Date	Avg			
35.9	20.6	28.3	28.7	22	76.9	----	----						54.16	25.4	3	28	-----	----	---	16	16	34		
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			2415	405	Thunder	0	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	3	0.38	5- 6	7.5	28	7			28									
0	9	28	2	----	----	Clear	5	Partly Cloudy			7	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/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

December 2011: Westford

Hour	DEC 01									DEC 02									DEC 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	29.91	0.00	32	25	76	32	8	13	0	30.24	0.00	27	22	79	19	4	7	0	30.52	0.00	27	22	81	04	0	5
04	0	30.03	0.00	29	20	70	34	2	8	0	30.23	0.00	31	24	76	21	4	6	0	30.59	0.00	25	21	83	33	0	3
07	0	30.15	0.00	25	18	77	01	0	3	0	30.22	0.00	31	24	74	20	5	10	0	30.64	0.00	19	16	85	33	0	0
10	137	30.23	0.00	29	21	71	34	3	6	69	30.22	0.00	35	26	69	19	3	7	237	30.65	0.00	29	22	75	08	0	1
13	299	30.20	0.00	33	21	60	32	1	4	26	30.21	0.00	33	28	84	20	2	7	288	30.56	0.00	34	24	65	20	5	13
16	11	30.22	0.00	30	22	70	01	0	0	7	30.27	0.00	33	30	91	21	3	7	7	30.53	0.00	34	23	66	17	2	6
19	0	30.27	0.00	25	20	81	02	0	0	0	30.38	0.00	32	30	92	31	0	9	0	30.52	0.00	34	20	56	19	5	11
22	0	30.27	0.00	25	21	85	02	0	0	0	30.49	0.00	29	24	82	32	4	11	0	30.46	0.00	35	22	58	19	8	20
DEC 04									DEC 05									DEC 06									
01	0	30.43	0.00	36	22	55	19	10	21	0	30.21	0.00	46	36	68	21	6	18	0	30.05	0.11	44	42	92	16	0	0
04	0	30.40	0.00	36	23	59	19	14	27	0	30.21	0.00	45	37	73	20	8	17	0	30.03	0.08	44	42	94	32	1	7
07	0	30.37	0.00	37	27	67	19	11	21	0	30.21	0.00	46	38	74	19	9	18	0	30.02	0.00	39	37	94	05	1	8
10	209	30.34	0.00	41	31	67	19	14	25	83	30.23	0.00	45	40	81	20	6	15	44	30.04	0.00	38	36	95	35	0	2
13	267	30.23	0.00	46	33	59	20	11	29	98	30.18	0.00	49	39	69	21	7	13	35	30.00	0.00	35	34	95	33	1	4
16	14	30.19	0.00	46	33	59	19	12	23	0	30.11	0.00	50	38	65	21	5	11	0	30.00	0.00	32	31	95	31	3	7
19	0	30.23	0.00	46	34	63	20	12	24	0	30.13	0.00	50	40	68	23	1	10	0	30.00	0.00	32	31	95	33	0	2
22	0	30.22	0.00	46	35	66	20	9	20	0	30.11	0.00	46	41	84	21	0	0	0	29.98	0.00	32	31	95	33	0	3
DEC 07									DEC 08									DEC 09									
01	0	29.95	0.00	32	30	95	33	0	0	0	29.65	0.00	28	26	94	33	5	10	0	30.14	0.00	31	25	78	21	7	16
04	0	29.92	0.00	32	31	95	33	1	4	0	29.68	0.00	26	24	93	31	2	9	0	30.17	0.00	32	24	73	21	9	17
07	0	29.92	0.00	32	31	95	33	0	1	0	29.76	0.00	25	22	89	28	0	0	0	30.19	0.00	31	24	77	20	6	11
10	51	29.90	0.00	33	32	95	33	0	2	7	29.86	0.00	30	26	86	24	5	12	95	30.21	0.00	32	25	76	21	6	14
13	74	29.81	0.00	34	33	95	33	1	3	636	29.93	0.00	34	26	72	25	3	8	163	30.12	0.00	35	25	66	19	7	17
16	0	29.76	0.00	32	31	95	33	0	3	11	30.00	0.00	31	19	60	28	1	8	5	30.11	0.00	34	25	68	21	8	15
19	0	29.73	0.00	32	31	95	34	1	6	0	30.07	0.00	30	20	66	21	4	8	0	30.13	0.00	34	26	72	20	4	11
22	0	29.69	0.00	32	31	95	01	1	6	0	30.10	0.00	28	22	78	21	5	8	0	30.11	0.00	34	27	74	19	4	12
DEC 10									DEC 11									DEC 12									
01	0	30.09	0.00	35	27	74	22	6	12	0	30.39	0.00	24	15	70	25	2	7	0	30.41	0.00	31	18	60	20	9	23
04	0	30.13	0.00	32	29	88	28	1	3	0	30.44	0.00	21	14	75	26	0	7	0	30.44	0.00	31	17	57	20	6	17
07	0	30.22	0.00	26	21	83	32	5	10	0	30.49	0.00	16	11	80	24	0	0	0	30.46	0.00	30	17	57	21	9	16
10	313	30.26	0.00	27	18	67	34	3	9	246	30.54	0.00	26	16	66	21	5	12	230	30.45	0.00	34	18	50	21	6	14
13	387	30.23	0.00	31	15	51	29	7	11	244	30.49	0.00	31	16	55	20	7	13	306	30.40	0.00	40	18	41	21	6	13
16	9	30.27	0.00	28	13	54	28	2	10	11	30.45	0.00	29	19	65	20	6	13	11	30.39	0.00	37	16	43	21	4	11
19	0	30.31	0.00	24	12	62	26	2	6	0	30.42	0.00	29	18	63	21	7	20	0	30.38	0.00	33	15	47	20	4	9
22	0	30.36	0.00	24	15	68	27	1	6	0	30.42	0.00	30	18	63	20	8	18	0	30.38	0.00	30	13	50	19	3	5
DEC 13									DEC 14									DEC 15									
01	0	30.36	0.00	25	14	61	19	0	0	0	30.34	0.00	32	28	86	19	0	0	0	30.05	0.00	38	33	84	18	5	16
04	0	30.36	0.00	28	16	60	19	2	6	0	30.34	0.00	32	30	90	19	0	0	0	29.94	0.00	39	34	83	20	13	29
07	0	30.35	0.00	26	16	65	19	0	0	0	30.36	0.00	33	31	92	19	0	0	0	29.84	0.00	41	35	77	19	15	35
10	77	30.37	0.00	33	19	56	20	0	3	107	30.38	0.00	34	33	94	19	0	1	26	29.77	0.00	43	36	76	20	10	22
13	93	30.32	0.00	36	25	65	20	0	1	137	30.33	0.00	36	33	88	19	2	4	21	29.63	0.00	43	38	81	20	14	29
16	0	30.32	0.00	34	27	73	19	0	0	7	30.29	0.00	36	32	84	17	0	1	0	29.58	0.00	45	40	85	20	8	25
19	0	30.35	0.00	33	27	78	19	0	0	0	30.24	0.00	33	29	84	17	1	4	0	29.56	0.00	45	42	90	21	8	19
22	0	30.34	0.00	33	27	81	19	0	0	0	30.17	0.00	37	31	78	19	3	8	0	29.52	0.00	46	44	93	20	10	18
DEC 16									DEC 17									DEC 18									
01	0	29.50	0.00	46	42	85	23	6	13	0	30.01	0.00	26	22	84	00	2	5	0	30.22	0.00	5	0	82	05	0	0
04	0	29.57	0.00	42	35	76	24	7	23	0	30.05	0.00	24	20	86	35	2	7	0	30.24	0.00	2	-2	81	05	0	0
07	0	29.71	0.00	39	33	78	26	10	24	0	30.12	0.00	19	12	75	32	3	8	0	30.28	0.00	1	-4	80	04	0	0
10	47	29.89	0.00	38	30	73	29	12	22	37	30.17	0.00	19	12	75	34	2	8	267	30.30	0.00	13	8	80	05	0	0
13	83	29.94	0.00	37	28	70	31	7	16	69	30.17	0.00	18	10	72	32	5	11	304	30.25	0.00	19	2	48	06	0	2
16	0	30.00	0.00	34	26	70	29	6	12	5	30.20	0.00	16	8	71	02	0	5	11	30.26	0.00	16	2	53	30	0	0
19	0	30.03	0.00	31	24	77	33	0	2	0	30.23	0.00	9	3	79	05	0	0	0	30.27	0.00	9	0	67	30	1	3
22	0	30.01	0.00	29	23	79	03	0	4	0	30.23	0.00	6	2	82	04	0	0	0	30.22	0.00	12	2	62	19	1	6

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.02	0.02	0.03	0.04	0.05	0.06	0.07	0.09	0.11	0.12	0.15	0.16
Ended: Date	05	05	06	06	06	06	06	06	06	06	06	06
Ended: Time	2325	2325	0120	0110	0120	0127	0120	0127	0120	0110	0120	0110

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

December 2011: Westford

Hour	DEC 19									DEC 20									DEC 21								
	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Wind Direction	Wind Speed	Wind Gust	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Wind Direction	Wind Speed	Wind Gust	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Wind Direction	Wind Speed	Wind Gust
01	0	30.15	0.00	17	5	60	20	6	14	0	29.91	0.00	31	25	77	33	6	11	0	30.05	0.00	23	14	67	20	2	7
04	0	30.08	0.00	20	7	55	18	5	14	0	30.02	0.00	25	17	72	31	5	11	0	29.99	0.00	29	17	61	18	5	17
07	0	29.98	0.00	24	10	56	20	11	21	0	30.14	0.00	22	14	72	34	1	6	0	29.97	0.00	32	28	84	21	9	18
10	95	29.83	0.00	28	18	66	20	14	36	163	30.21	0.00	22	12	66	30	3	10	39	29.91	0.00	35	33	91	20	8	16
13	54	29.76	0.00	34	23	65	21	9	19	304	30.16	0.00	24	12	59	02	1	5	35	29.78	0.00	38	36	91	20	6	11
16	0	29.75	0.00	35	25	67	21	9	15	9	30.13	0.00	22	10	58	20	0	5	0	29.67	0.00	40	38	93	18	5	11
19	0	29.76	0.00	36	28	71	21	6	14	0	30.14	0.00	15	8	73	20	0	0	0	29.58	0.00	43	41	94	19	7	14
22	0	29.81	0.00	34	31	87	32	2	11	0	30.11	0.00	16	10	79	20	0	0	0	29.55	0.00	44	43	95	20	4	14
DEC 22									DEC 23									DEC 24									
01	0	29.55	0.00	45	44	95	22	6	14	0	29.97	0.00	33	30	89	14	0	0	0	30.28	0.00	11	7	82	01	0	6
04	0	29.76	0.00	33	31	94	33	5	12	0	29.90	0.00	32	29	90	09	0	0	0	30.34	0.00	9	5	83	01	0	0
07	0	29.89	0.00	35	33	93	22	3	7	0	29.90	0.00	33	31	93	09	0	0	0	30.42	0.00	6	1	82	01	0	1
10	135	29.97	0.00	38	34	85	32	1	5	18	29.93	0.00	33	31	93	30	1	3	202	30.49	0.00	8	1	73	01	0	3
13	292	29.96	0.00	42	33	71	27	3	8	12	29.96	0.00	29	28	93	33	2	6	200	30.49	0.00	12	2	64	00	0	4
16	9	30.00	0.00	38	28	66	32	2	4	0	30.09	0.00	24	20	87	02	3	9	7	30.50	0.00	9	1	70	00	0	4
19	0	30.04	0.00	31	28	87	10	0	0	0	30.20	0.00	20	16	85	34	5	16	0	30.48	0.00	2	-3	81	00	0	0
22	0	29.98	0.00	31	29	90	10	0	0	0	30.25	0.00	15	11	83	00	1	5	0	30.45	0.00	1	-4	81	10	0	0
DEC 25									DEC 26									DEC 27									
01	0	30.39	0.00	9	3	79	19	3	11	0	29.81	0.00	30	27	88	20	1	4	0	30.03	0.00	30	23	77	21	6	16
04	0	30.30	0.00	12	7	78	19	4	8	0	29.90	0.00	29	26	91	34	3	12	0	29.96	0.00	31	24	76	20	8	17
07	0	30.21	0.00	19	12	76	19	9	21	0	30.04	0.00	25	22	88	31	3	10	0	29.87	0.00	33	24	70	19	8	17
10	51	30.15	0.00	23	16	75	20	9	22	53	30.16	0.00	26	21	81	31	4	7	121	29.84	0.00	35	25	66	22	11	20
13	49	30.00	0.00	25	19	78	19	8	16	144	30.15	0.00	29	20	69	26	4	8	88	29.72	0.00	38	26	62	21	7	21
16	5	29.94	0.00	28	21	76	20	5	11	14	30.16	0.00	28	19	69	27	1	2	0	29.67	0.00	38	27	64	20	7	17
19	0	29.90	0.00	30	23	75	19	5	12	0	30.15	0.00	24	18	77	21	2	4	0	29.55	0.00	34	31	86	21	0	3
22	0	29.83	0.00	30	28	92	19	2	7	0	30.11	0.00	25	19	79	19	3	6	0	29.27	0.00	40	36	87	20	5	11
DEC 28									DEC 29									DEC 30									
01	0	29.15	0.00	40	37	90	19	3	7	0	29.74	0.00	6	2	81	26	6	13	0	30.03	0.00	1	-3	80	07	0	0
04	0	29.18	0.00	39	37	93	25	5	16	0	29.80	0.00	2	-3	79	24	0	3	0	30.04	0.00	1	-4	80	07	0	0
07	0	29.21	0.00	37	35	91	24	1	9	0	29.86	0.00	2	-3	78	23	0	2	0	30.06	0.00	4	-1	80	07	0	0
10	39	29.28	0.00	34	30	85	25	4	7	248	29.92	0.00	10	4	77	27	3	7	63	30.08	0.00	12	6	78	07	0	5
13	56	29.35	0.00	22	18	86	29	9	21	306	29.90	0.00	15	6	65	32	4	12	35	30.02	0.00	18	13	80	08	0	3
16	0	29.48	0.00	15	12	85	28	6	17	12	29.95	0.00	14	4	65	28	0	0	7	30.04	0.00	22	17	81	09	0	0
19	0	29.59	0.00	13	10	85	27	5	18	0	30.00	0.00	7	0	73	07	0	2	0	30.04	0.00	22	18	83	09	0	0
22	0	29.66	0.00	10	6	83	26	6	16	0	30.01	0.00	3	-3	77	07	0	1	0	30.01	0.00	25	23	92	09	0	2
DEC 31																											
01	0	29.97	0.00	28	25	87	13	0	0																		
04	0	29.90	0.00	28	26	91	13	0	0																		
07	0	29.86	0.00	33	29	88	21	0	5																		
10	35	29.87	0.00	36	33	90	21	2	3																		
13	53	29.81	0.00	37	35	92	19	3	5																		
16	9	29.85	0.00	35	33	93	20	0	0																		
19	0	29.89	0.00	34	32	94	20	0	0																		
22	0	29.96	0.00	32	31	94	31	0	0																		

WEATHER NOTES

NOTES:
 Units are: 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
01	0	30.049	28	22	79	3.5	23	2.5
04	0	30.062	27	21	79	3.7	22	2.5
07	0	30.088	26	21	80	3.8	22	3.0
10	114	30.110	30	23	77	4.3	23	3.2
13	166	30.067	32	23	71	4.6	23	3.2
16	6	30.070	30	22	72	3.2	22	2.4
19	0	30.083	28	22	77	2.6	22	2.1
22	0	30.067	28	22	80	2.5	21	2.1

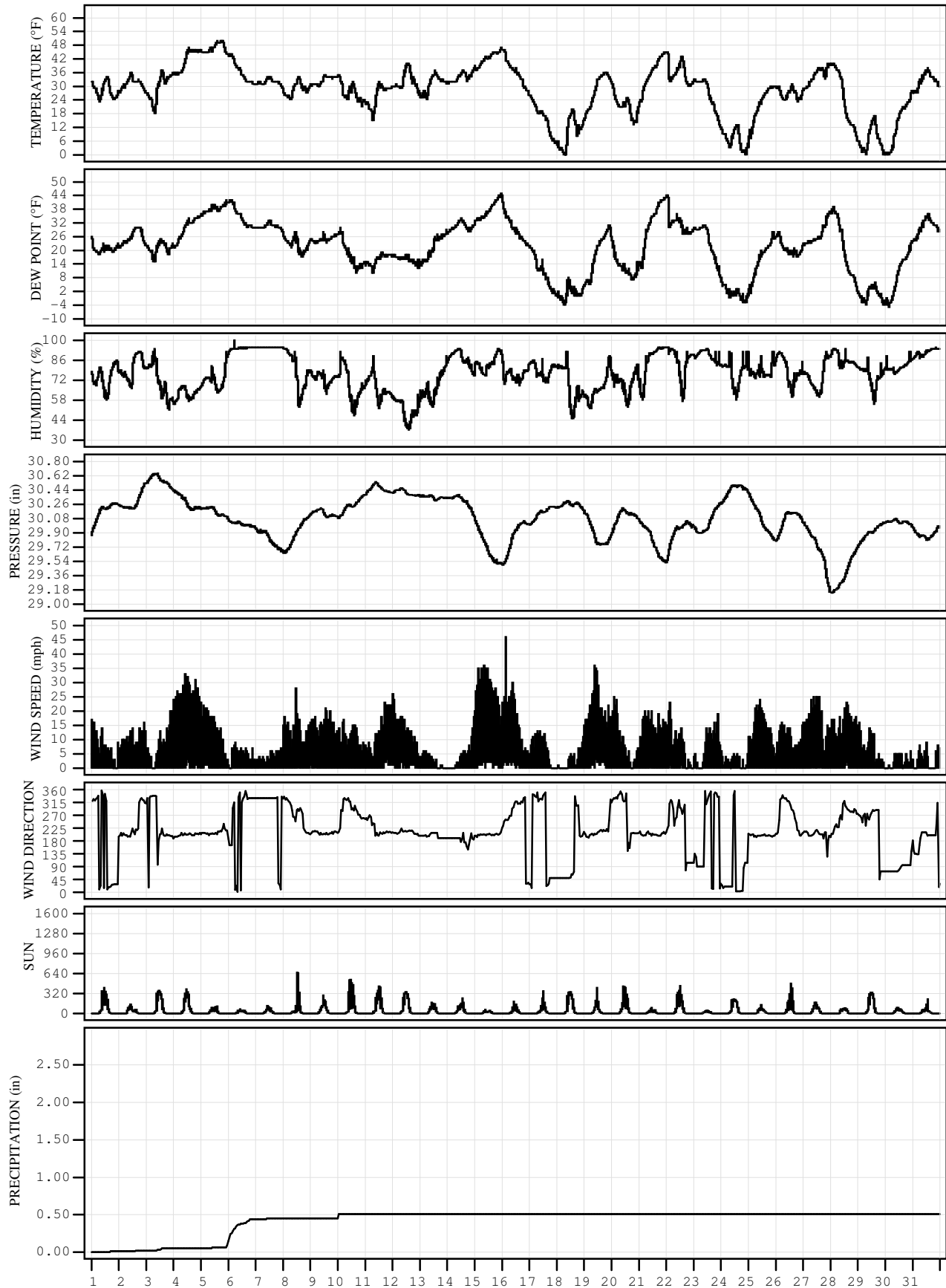
HOURLY PRECIPITATION (Water Equivalent) December 2011: Westford

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
05																										05
06	0.05	0.04	0.01	0.03	0.03	0.01	0.02	0.02	0.01																	06
07																										07
08																										08
09																										09
10	0.06																									10
11																										11
12																										12
13																										13
14																										14
15																										15
16																										16
17																										17
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25																										25
26																										26
27																										27
28																										28
29																										29
30																										30
31																										31
Sum	0.11	0.04	0.01	0.03	0.03	0.01	0.02	0.02	0.01	0.03	0.01	0.00	0.01	0.02	0.01	0.01	0.02	0.01	0.02	0.00	0.00	0.00	0.03	0.06	Sum	

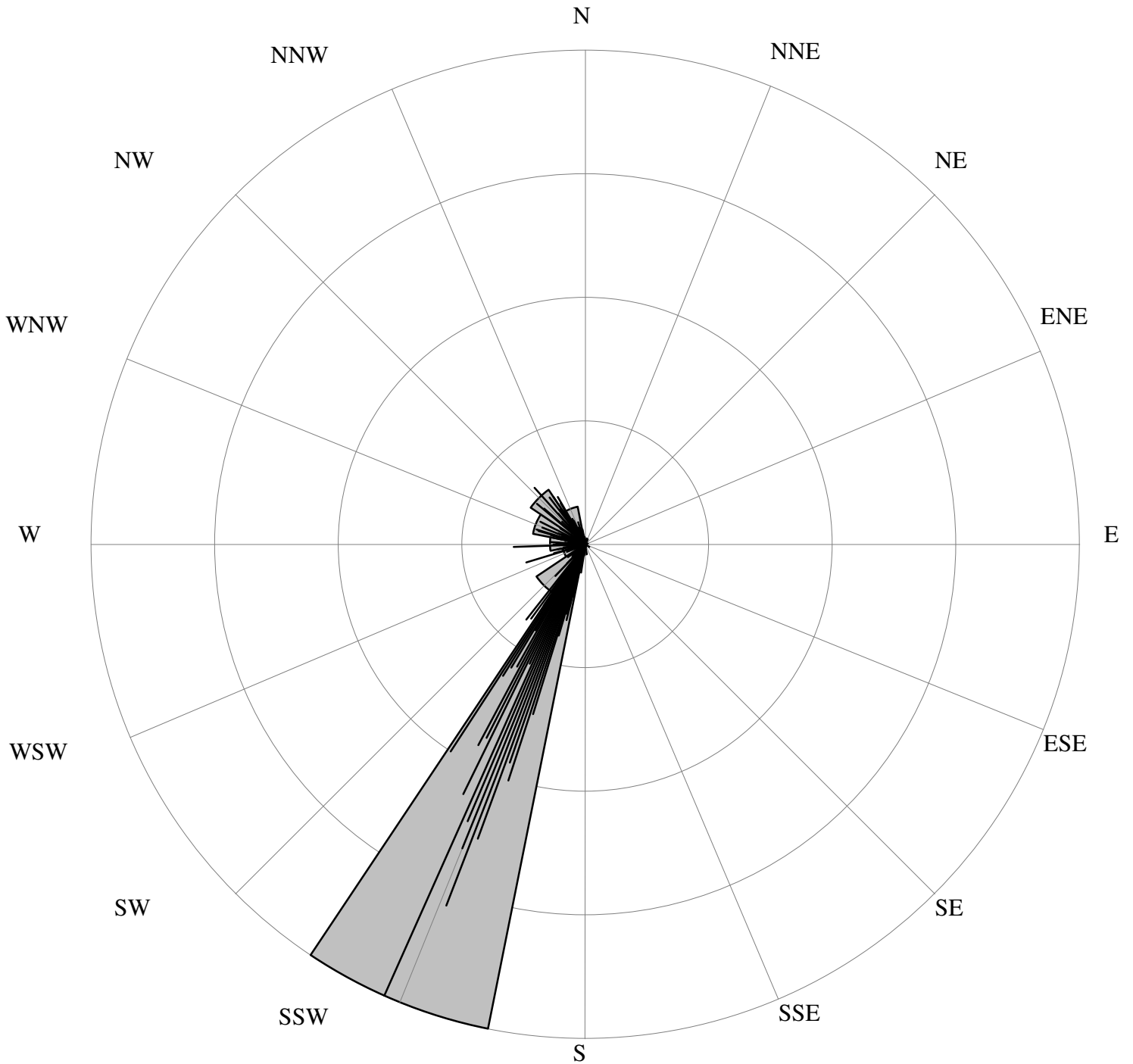
During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA

December 2011: Westford



Wind Rose: December 2011
Westford



Maximum direction of wind: 183.1 miles from 204°
Maximum sector of wind: 1642.8 miles from SSW
2633.0 total miles of wind