

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

February 2012

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	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	44.1	30.6	37.3	38.8	33	81	27	0	.....	1	0.28	0.1	29.98	29.67	29.780	3.5	2.6	231	19	WNW	11	319	7
2	30.6	10.9	20.8	20.7	16	80	44	0	.....	1	0.02	0.2	30.31	29.97	30.129	1.1	1.1	351	14	NNW	7	325	44
3	27.2	11.2	19.2	21.7	16	77	46	0	.....	1	0.01	0.5	30.42	30.23	30.333	1.3	1.2	229	10	WNW	6	214	69
4	27.2	6.9	17.1	19.4	12	73	48	0	.....	1	0.09	1.5	30.31	30.17	30.227	1.6	1.5	330	18	NNW	9	300	109
5	26.5	5.0	15.8	17.5	10	72	49	0	.....	1	0.00	0.0	30.20	29.97	30.129	1.8	1.4	239	13	S	8	216	99
6	45.5*	23.4	34.4	33.8	23	66	30	0	.....	1	0.00	0.0	29.98	29.76	29.854	5.4	5.0	233	21	W	15	283	96
7	36.3	12.1	24.2	24.7	16	68	41	0	.....	1	T	T	30.27	29.85	30.069	2.9	2.8	335	19	WNW	10	310	87
8	31.2	6.3	18.8	20.1	8	59	46	0	.....	1	0.00	0.0	30.28	30.02	30.165	3.1	3.0	211	14	SW	9	219	110
9	40.9	19.7	30.3	29.2	16	58	34	0	.....	1	0.00	0.0	30.03	29.95	29.996	2.7	2.5	231	14	WSW	9	232	113
10	38.9	23.8	31.4	30.8	18	58	33	0	.....	1	0.00	0.0	30.01	29.84	29.942	2.7	2.3	226	18	SSW	9	216	104
11	29.8	3.5	16.6	14.0	7	75	48	0	.....	1	0.04	0.5	29.85	29.76	29.808	1.1	0.9	327	10	WNW	7	311	65
12	11.8	1.4*	6.6*	5.6	-4	64	58	0	.....	1	0.01	0.1	29.85	29.77	29.801	2.9	2.6	315	19	WNW	9	315	82
13	28.9	11.8	20.3	21.0	11	66	44	0	.....	1	0.01	0.1	29.89	29.75	29.812	2.1	1.6	255	15	WSW	9	251	90
14	37.2	20.7	29.0	30.5	19	63	36	0	.....	1	0.00	0.0	30.02	29.89	29.967	4.2	3.9	213	17	SW	11	216	104
15	38.3	28.3	33.3	33.6	29	82	32	0	.....	1	0.02	0.1	30.22	30.02	30.121	1.4	1.3	222	11	W	6	273	41
16	42.7	29.0	35.9	34.8	29	79	29	0	.....	1	0.04	T	30.23	29.86	30.088	3.1	3.1	210	19	S	11	199	82
17	39.0	31.6	35.3	35.3	27	74	29	0	.....	1	0.06	T	29.89	29.81	29.848	5.7	5.1	239	23	W	15	269	54
18	36.9	24.5	30.7	31.3	21	67	34	0	.....	T	0.00	0.0	30.01	29.82	29.879	3.4	3.2	284	20	WSW	10	283	103
19	32.3	20.0	26.1	25.2	16	68	39	0	.....	T	T	T	30.09	30.01	30.049	1.7	1.6	332	13	NNW	8	283	115
20	29.7	10.9	20.3	19.9	12	71	44	0	.....	T	T	0.2	30.30	30.07	30.203	0.6	0.5	330	12	WNW	5	282	101
21	39.6	16.3	27.9	28.6	18	66	37	0	.....	T	T	T	30.31	29.71	30.055	3.7	3.6	200	23	SSW	13	206	108
22	45.5	32.6	39.0*	38.2	30	73	25	0	.....	T	0.11	T	29.71	29.37	29.522	5.8	5.4	219	22	SW	13	270	78
23	37.5	27.8	32.6	32.9	29	86	32	0	.....	1	0.32	1.6	29.73	29.33	29.494	0.9	0.9	284	13	WNW	8	297	53
24	35.1	24.4	29.7	30.0	26	86	35	0	.....	6	0.40	5.0	29.73	29.14	29.532	1.4	1.3	186	21	S	11	180	27
25	32.8	17.2	25.0	25.8	20	79	40	0	.....	7	0.08	1.2	29.89	29.07	29.360	7.5	7.0	282	29	WNW	18	293	4
26	25.5	8.8	17.2	16.4	3	57	47	0	.....	5	T	T	30.43	29.89	30.271	2.1	1.9	305	16	WNW	10	293	91
27	39.6	5.6	22.6	24.6	15	66	42	0	.....	5	0.02	0.3	30.42	29.96	30.164	3.6	3.2	217	24	WSW	12	206	54
28	33.4	13.0	23.2	22.6	15	72	42	0	.....	4	0.04	0.8	30.39	30.05	30.300	3.2	2.8	317	20	NW	12	299	135
29	32.7	11.8	22.3	23.7	14	67	42	0	.....	4	T	0.2	30.38	29.87	30.189	0.5	0.4	70	10	S	5	19	105
Sum	Sum	-----	-----	---	----		Ttl	Ttl					For the month:										---	
997	489						1133	0					1.55	12.4	30.43	29.07	29.968	2.8	1.8	250	29	WNW	18	293
Avg	Avg	Avg	Mean	Avg	Avg	----	----						Season Ttl	Date	Date	-----	----	----	---	Date	Date	Avg		
34.4	16.9	25.6	25.9	17	70.8	----	----						4.19	55.5	26	25	-----	----	----	---	25	25	80	
Number of Days							Season to Date		Snow, Ice ≥1.0 inch		4		Greatest in 24 Hours and Dates					Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date						
Max Temperature			Min Temperature			4868	0	Thunder		0	Precipitation		Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----			Heavy Fog		0	0.00	-	5.0	24						7			25	
0	11	28	0	----	----			Clear		3	Partly Cloudy		10	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: 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 2012: Westford

Hour	FEB 01									FEB 02									FEB 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	29.83	0.00	38	29	70	20	5	7	0	29.98	0.00	28	25	89	02	4	10	0	30.32	0.00	14	9	83	02	0	0
04	0	29.76	0.00	41	32	70	20	5	9	0	30.04	0.00	25	20	81	01	1	7	0	30.34	0.00	12	7	83	02	0	0
07	0	29.71	0.00	43	35	75	21	5	9	0	30.06	0.00	23	19	83	01	1	5	0	30.39	0.00	16	12	85	02	0	0
10	11	29.72	0.00	41	36	82	18	0	3	77	30.11	0.00	24	19	81	00	0	4	341	30.41	0.00	23	16	75	21	2	5
13	62	29.68	0.00	43	38	82	21	4	10	186	30.11	0.00	25	18	76	30	0	4	167	30.36	0.00	26	17	68	26	2	4
16	0	29.75	0.00	40	37	90	31	3	8	72	30.15	0.00	21	12	70	01	0	10	37	30.30	0.00	27	18	68	19	5	9
19	0	29.85	0.00	34	32	92	25	0	4	0	30.22	0.00	13	8	80	02	0	3	0	30.29	0.00	26	19	76	20	3	6
22	0	29.91	0.00	33	30	87	32	5	19	0	30.29	0.00	11	7	83	02	0	4	0	30.27	0.00	27	20	76	21	0	2
FEB 04									FEB 05									FEB 06									
01	0	30.21	0.00	26	23	87	21	0	0	0	30.16	0.00	7	3	82	05	0	0	0	29.96	0.00	24	15	68	22	6	10
04	0	30.22	0.00	25	21	87	33	3	8	0	30.16	0.00	6	1	81	05	0	0	0	29.92	0.00	27	18	69	21	6	14
07	0	30.28	0.00	19	11	73	32	4	9	0	30.18	0.00	9	5	84	05	0	0	0	29.88	0.00	28	20	72	20	6	11
10	346	30.29	0.00	20	11	69	31	4	9	348	30.20	0.00	18	12	79	29	1	3	490	29.87	0.00	33	24	70	22	5	12
13	439	30.22	0.00	24	11	58	02	1	7	439	30.14	0.00	25	12	59	27	1	7	436	29.78	0.00	41	26	55	21	9	16
16	88	30.19	0.00	25	11	55	34	0	5	86	30.09	0.00	26	13	58	30	1	4	88	29.76	0.00	45	26	46	26	10	17
19	0	30.20	0.00	15	8	74	05	0	0	0	30.07	0.00	25	14	64	21	5	10	0	29.84	0.00	32	26	77	03	1	2
22	0	30.20	0.00	9	4	81	05	0	0	0	30.03	0.00	25	15	66	21	5	8	0	29.83	0.00	36	27	68	26	6	10
FEB 07									FEB 08									FEB 09									
01	0	29.86	0.00	35	27	72	32	4	11	0	30.27	0.00	11	3	69	31	0	0	0	30.03	0.00	22	14	70	21	0	0
04	0	29.89	0.00	33	26	74	30	7	12	0	30.26	0.00	7	1	75	31	0	0	0	29.99	0.00	21	12	70	17	1	4
07	0	29.97	0.00	29	21	72	34	6	14	0	30.27	0.00	10	1	68	21	2	4	0	30.01	0.00	22	14	70	19	3	5
10	394	30.06	0.00	25	15	67	35	3	9	355	30.26	0.00	20	8	57	22	6	12	355	30.02	0.00	31	19	61	23	6	11
13	149	30.09	0.00	25	15	67	02	2	12	462	30.16	0.00	29	10	44	20	4	10	457	29.98	0.00	36	20	50	25	6	11
16	100	30.14	0.00	24	12	62	31	2	8	127	30.08	0.00	31	11	43	21	7	11	109	29.96	0.00	40	17	38	24	4	10
19	0	30.22	0.00	16	7	65	00	1	5	0	30.05	0.00	27	13	55	20	6	13	0	29.98	0.00	31	15	51	19	2	4
22	0	30.25	0.00	14	5	67	29	0	0	0	30.03	0.00	25	14	63	22	3	6	0	30.01	0.00	25	14	62	21	0	0
FEB 10									FEB 11									FEB 12									
01	0	30.01	0.00	26	14	58	19	2	4	0	29.84	0.00	30	19	63	28	2	5	0	29.78	0.00	5	-3	67	33	3	9
04	0	30.00	0.00	26	15	62	20	2	5	0	29.81	0.00	27	23	85	26	3	4	0	29.77	0.00	4	-5	66	31	1	9
07	0	29.99	0.00	26	15	63	18	3	5	0	29.81	0.00	13	8	81	00	2	6	5	29.78	0.00	2	-6	71	33	3	11
10	355	29.99	0.00	33	19	55	26	2	8	144	29.84	0.00	13	7	76	29	2	5	192	29.81	0.00	3	-4	73	34	3	14
13	448	29.91	0.00	37	21	51	24	5	10	258	29.79	0.00	16	7	66	35	1	7	483	29.78	0.00	7	-4	61	34	5	12
16	69	29.88	0.00	37	19	48	22	3	7	128	29.77	0.00	13	4	67	32	1	7	123	29.80	0.00	8	-6	53	32	4	19
19	0	29.90	0.00	32	18	56	29	2	4	0	29.79	0.00	5	-1	77	02	0	0	0	29.83	0.00	7	-4	60	29	2	9
22	0	29.86	0.00	29	21	70	30	0	2	0	29.80	0.00	4	-1	77	01	0	0	0	29.84	0.00	10	0	64	24	2	7
FEB 13									FEB 14									FEB 15									
01	0	29.80	0.00	12	3	66	25	5	10	0	29.90	0.00	28	19	68	24	9	17	0	30.03	0.00	31	26	79	20	5	9
04	0	29.76	0.00	13	4	65	21	5	11	0	29.94	0.00	25	17	72	26	0	0	0	30.05	0.00	31	29	89	20	2	5
07	0	29.79	0.00	14	9	81	20	1	5	5	29.97	0.00	21	15	76	20	3	5	5	30.07	0.00	30	27	90	20	4	7
10	260	29.81	0.00	22	14	71	29	2	7	406	29.99	0.00	32	19	59	19	9	17	153	30.11	0.00	36	28	73	20	2	7
13	420	29.79	0.00	28	13	52	32	3	9	334	29.95	0.00	35	20	54	20	5	12	118	30.13	0.00	37	29	72	24	0	4
16	81	29.81	0.00	27	13	54	30	0	0	70	29.95	0.00	35	20	54	18	4	9	37	30.15	0.00	36	30	78	27	0	4
19	0	29.85	0.00	22	13	68	30	0	3	0	29.98	0.00	34	18	52	18	3	9	0	30.19	0.00	34	31	88	27	0	2
22	0	29.86	0.00	25	16	68	23	2	6	0	30.01	0.00	32	22	66	20	5	10	0	30.22	0.00	33	30	89	26	0	0
FEB 16									FEB 17									FEB 18									
01	0	30.22	0.00	33	29	85	26	0	3	0	29.83	0.00	35	33	92	20	8	16	0	29.85	0.00	32	23	69	28	4	7
04	0	30.21	0.00	32	28	83	26	2	4	0	29.82	0.00	35	33	92	20	8	15	0	29.87	0.00	31	23	74	25	5	11
07	5	30.22	0.00	30	26	85	21	1	3	0	29.85	0.00	35	33	92	20	5	14	9	29.89	0.00	30	22	70	25	5	15
10	174	30.18	0.00	36	28	72	20	3	6	408	29.88	0.00	38	25	59	25	9	23	120	29.87	0.00	32	22	67	26	6	13
13	318	30.08	0.00	42	28	57	22	5	9	77	29.84	0.00	37	25	60	27	3	12	230	29.83	0.00	37	21	52	28	7	10
16	26	30.00	0.00	38	27	65	21	5	10	65	29.85	0.00	37	22	56	26	6	11	74	29.82	0.00	34	21	58	33	3	7
19	0	29.96	0.00	33	30	89	20	2	8	0	29.86	0.00	34	25	70	23	8	14	0	29.90	0.00	29	20	69	35	3	9
22	0	29.91	0.00	34	32	92	21	6	13	0	29.85	0.00	33	24	70	26	5	14	0	29.95	0.00	28	20	73	31	1	7

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	00	00	00	00	00	00	00	00	00	00	00	00
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.

OBSERVATIONS AT 3-HOUR INTERVALS

February 2012: 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
01	0	30.03	0.00	24	17	74	33	3	13	0	30.08	0.00	19	12	76	30	0	4	0	30.31	0.00	19	14	81	03	0	0
04	0	30.03	0.00	23	17	75	35	2	6	0	30.09	0.00	16	11	80	30	0	5	0	30.29	0.00	20	15	80	19	2	4
07	5	30.07	0.00	22	15	75	05	0	4	12	30.15	0.00	12	8	83	02	0	2	16	30.24	0.00	17	12	81	19	0	2
10	327	30.08	0.00	27	16	62	32	3	8	406	30.22	0.00	19	12	71	00	1	4	432	30.17	0.00	31	19	63	17	6	9
13	443	30.05	0.00	30	19	63	33	5	10	343	30.23	0.00	23	10	57	32	2	8	313	30.02	0.00	36	16	44	19	9	18
16	162	30.02	0.00	31	16	54	35	1	9	167	30.25	0.00	29	14	52	03	0	2	81	29.89	0.00	37	17	45	19	7	13
19	0	30.04	0.00	24	15	69	01	0	1	0	30.27	0.00	22	14	72	03	0	0	0	29.84	0.00	35	19	53	19	3	8
22	0	30.06	0.00	21	14	73	31	4	6	0	30.29	0.00	20	15	81	03	0	0	0	29.78	0.00	33	26	74	18	5	13
FEB 22									FEB 23									FEB 24									
01	0	29.68	0.00	34	29	80	20	7	14	0	29.38	0.00	34	32	91	29	4	8	0	29.72	0.00	28	24	86	23	0	3
04	0	29.59	0.00	36	30	78	20	11	18	0	29.34	0.00	33	31	93	11	0	0	0	29.72	0.00	25	23	89	23	0	0
07	5	29.56	0.00	37	30	77	20	9	20	0	29.36	0.00	32	31	94	11	0	0	7	29.68	0.00	27	24	91	23	1	3
10	260	29.54	0.00	39	32	74	21	6	14	47	29.42	0.00	33	31	94	32	1	6	118	29.67	0.00	34	28	78	09	0	2
13	151	29.50	0.00	42	25	51	28	6	15	128	29.47	0.00	36	31	80	29	0	5	58	29.55	0.00	33	25	70	18	5	20
16	16	29.44	0.00	42	26	52	23	4	9	39	29.55	0.00	34	30	84	32	2	8	9	29.42	0.00	31	28	87	19	1	7
19	0	29.47	0.00	37	32	84	21	2	6	0	29.66	0.00	32	25	76	29	0	4	0	29.33	0.00	31	28	89	22	2	7
22	0	29.43	0.00	35	33	91	19	4	6	0	29.72	0.00	29	24	79	23	0	3	0	29.24	0.00	33	31	94	21	0	0
FEB 25									FEB 26									FEB 27									
01	0	29.11	0.00	33	31	94	20	2	9	0	29.94	0.00	16	7	69	29	4	12	0	30.41	0.00	8	0	71	11	0	0
04	0	29.07	0.00	31	30	93	19	0	6	0	30.09	0.00	12	5	71	28	2	7	0	30.39	0.00	8	1	74	12	0	0
07	0	29.14	0.00	29	22	75	24	8	20	5	30.22	0.00	10	3	71	29	2	6	12	30.33	0.00	6	0	77	11	0	1
10	9	29.22	0.00	26	21	81	26	11	18	56	30.30	0.00	18	5	56	35	1	6	188	30.22	0.00	26	13	57	20	5	13
13	12	29.32	0.00	26	19	77	29	9	17	454	30.32	0.00	22	-1	36	30	4	10	216	30.04	0.00	34	20	55	19	8	16
16	5	29.46	0.00	23	15	72	30	6	15	67	30.37	0.00	24	2	38	02	1	7	60	29.99	0.00	37	22	55	20	6	18
19	0	29.63	0.00	21	15	76	29	10	21	0	30.41	0.00	18	2	50	04	0	3	0	29.97	0.00	38	25	59	19	6	12
22	0	29.81	0.00	19	13	79	29	9	21	0	30.42	0.00	15	4	62	12	0	3	0	30.03	0.00	33	29	84	28	3	8
FEB 28									FEB 29																		
01	0	30.06	0.00	33	28	79	26	7	18	0	30.36	0.00	14	9	80	10	0	0									
04	0	30.13	0.00	27	23	87	33	9	20	0	30.34	0.00	14	8	77	10	0	0									
07	7	30.28	0.00	20	15	81	30	9	17	19	30.32	0.00	12	7	81	10	0	0									
10	369	30.38	0.00	20	12	70	34	3	15	345	30.30	0.00	27	13	56	10	1	3									
13	584	30.37	0.00	24	11	58	32	5	12	350	30.20	0.00	33	15	48	04	2	4									
16	134	30.38	0.00	27	12	52	04	1	5	86	30.11	0.00	32	16	52	03	1	5									
19	0	30.38	0.00	18	10	71	10	0	0	0	30.02	0.00	29	18	61	05	1	3									
22	0	30.38	0.00	13	8	79	10	0	0	0	29.93	0.00	29	22	75	05	1	3									

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

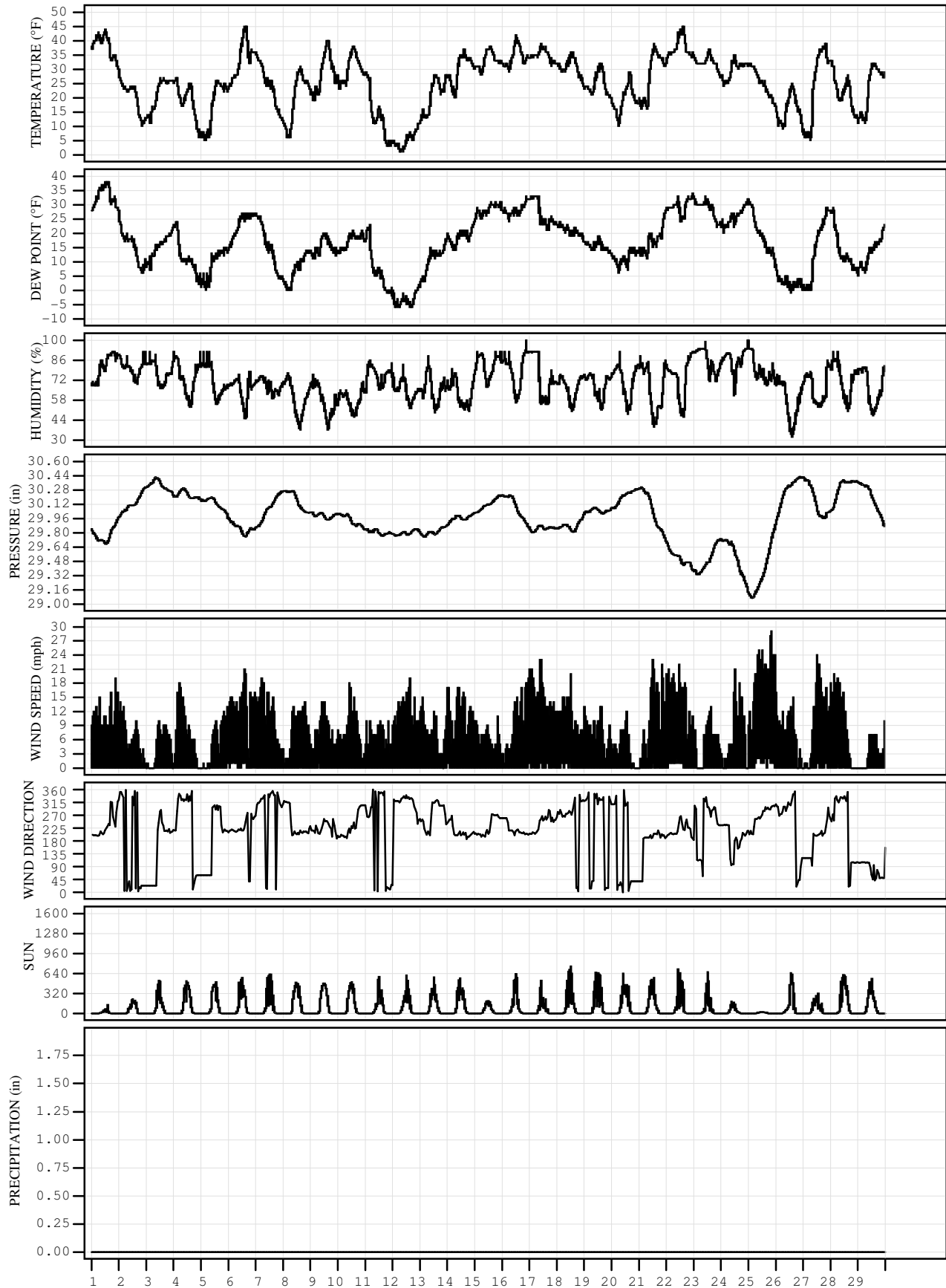
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01	0	29.965	24	18	76	2.9	25	1.9
04	0	29.962	23	17	78	2.6	24	1.6
07	4	29.983	21	16	79	2.9	24	1.8
10	258	29.999	27	18	69	3.6	25	2.3
13	294	29.955	31	18	59	4.1	26	2.4
16	76	29.943	31	17	59	3.0	25	1.9
19	0	29.966	26	17	70	2.2	23	1.5
22	0	29.973	25	18	76	2.3	25	1.6

HOURLY PRECIPITATION (Water Equivalent) February 2012: Westford

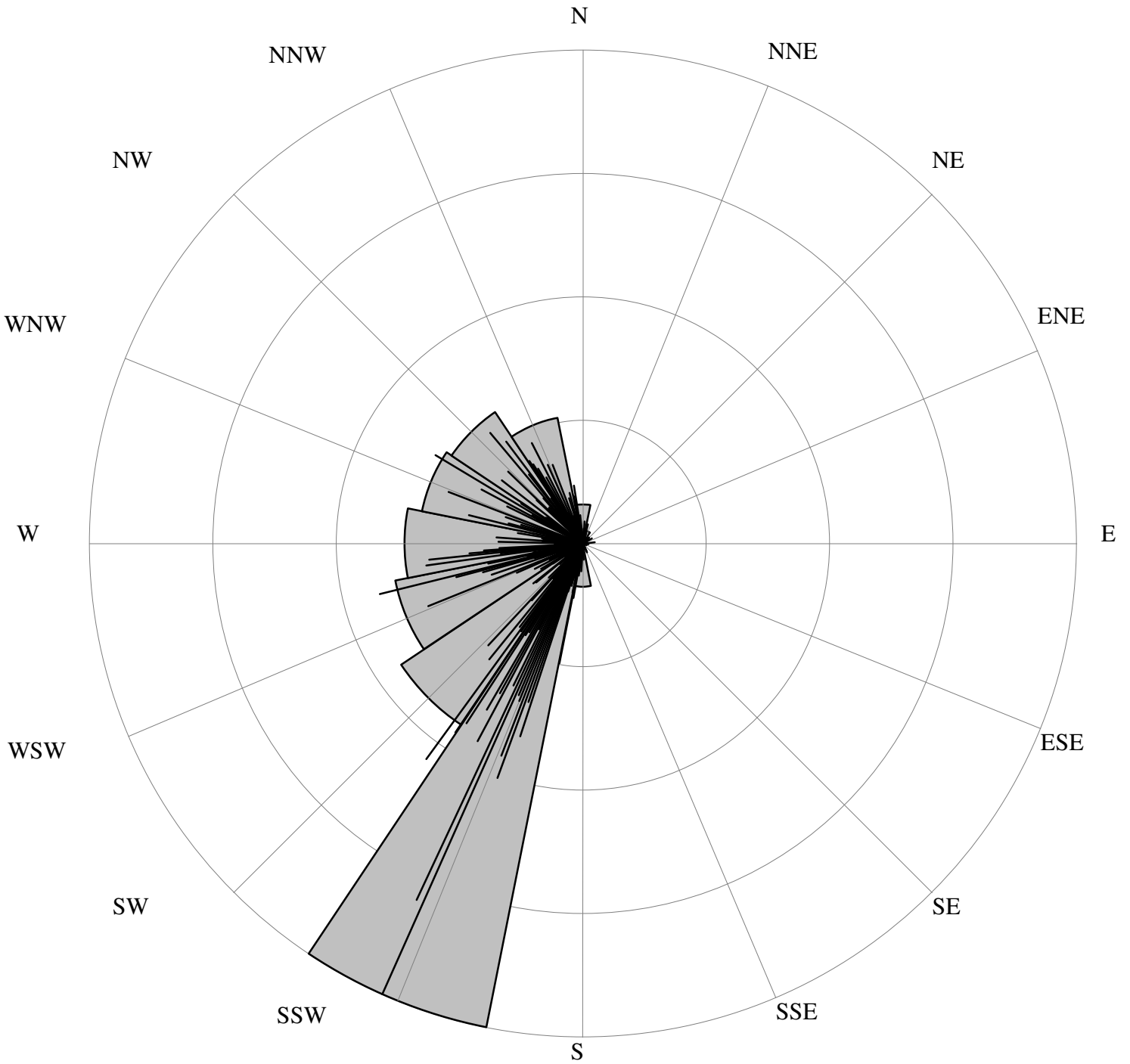
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01																								01	
02																									02
03																									03
04																									04
05																									05
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29																									29
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 2012: Westford



Wind Rose: February 2012
Westford



Maximum direction of wind: 81.8 miles from 204°
Maximum sector of wind: 585.6 miles from SSW
1949.1 total miles of wind