

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

January 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	10.0	-7.6	1.2	2.6	-2	81	64	0	.....	9	T	0.1	30.45	30.11	30.308	0.5	0.4	5	12	N	4	300	54
2	-7.1	-13.3	-10.2	-9.9	-14	81	75	0	.....	10	0.12	1.3	30.44	30.05	30.279	0.2	0.2	359	9	N	3	308	22
3	-5.9	-16.9	-11.4*	-11.3	-16	79	77	0	.....	11	0.05	0.5	30.42	30.03	30.225	1.0	1.0	358	14	NW	7	328	61
4	19.8	-12.0	3.9	8.3	-2	63	61	0	.....	9	0.00	0.0	30.41	30.08	30.227	5.8	5.8	205	35	SW	15	201	42
5	38.2	19.7	29.0	25.9	17	68	36	0	.....6...	9	0.05	0.0	30.21	29.67	30.093	2.3	2.3	201	18	SSW	10	170	28
6	46.6	16.6	31.6	34.9	30	82	33	0	.2.....	5	0.78	T	29.68	29.19	29.372	6.5	4.9	245	33	W	18	278	17	
7	16.6	3.8	10.2	7.5	-4	60	54	0	.....	5	T	T	30.03	29.44	29.756	8.3	8.1	262	38	NW	22	289	52
8	15.9	4.2	10.0	9.4	2	70	55	0	.....	5	T	T	30.37	30.03	30.275	2.2	2.2	213	18	SSW	9	216	48
9	21.3	9.1	15.2	14.5	7	71	50	0	.....	5	T	T	30.59	30.35	30.500	1.0	0.8	274	18	WNW	11	289	65
10	32.5	13.2	22.8	24.3	19	80	42	0	.....	5	0.01	0.2	30.48	30.13	30.317	3.6	3.6	208	21	SW	11	214	33
11	50.9*	31.2	41.1*	42.4	41	94	24	0	.....	3	1.14	0.0	30.14	29.07	29.544	4.8	4.5	213	35	WSW	19	252	8
12	44.1	33.1	38.6	36.4	30	76	26	0	.....	2	T	T	29.89	29.16	29.549	4.1	4.1	264	28	WNW	13	256	23
13	44.7	28.8	36.8	38.1	27	65	28	0	.....	1	0.00	0.0	29.95	29.68	29.822	6.7	6.6	205	32	SSW	16	210	39
14	44.1	33.0	38.5	39.5	37	92	26	0	.....	T	0.35	0.0	29.74	29.63	29.662	3.5	3.2	208	24	SSE	12	192	12
15	42.7	26.6	34.7	34.2	30	84	30	0	.....	T	0.04	0.4	29.90	29.74	29.829	1.9	1.8	208	22	SW	13	202	56
16	28.9	23.6	26.3	26.6	25	93	38	0	.....	3	0.11	2.4	29.94	29.87	29.897	0.1	0.1	14	8	W	4	289	7
17	34.6	19.5	27.0	27.6	24	87	37	0	.....	3	0.00	0.0	29.89	29.80	29.850	2.4	2.4	207	18	S	11	216	36
18	39.8	18.0	28.9	28.1	23	81	36	0	.....	1	0.00	0.0	29.84	29.64	29.731	0.3	0.1	277	10	WNW	6	326	82
19	27.3	21.8	24.5	24.8	22	88	40	0	.....	3	0.22	2.5	29.67	29.36	29.485	3.7	3.7	213	25	SSE	12	215	23
20	27.5	-4.7	11.4	10.2	6	84	53	0	.....	7	0.24	4.9	29.97	29.37	29.623	0.6	0.3	298	13	SW	7	210	9
21	0.2	-16.7	-8.3	-8.3	-15	74	74	0	.....	6	T	T	30.14	29.96	30.091	0.1	0.0	31	10	NNE	3	37	81
22	-3.2	-18.4*	-10.8	-12.2	-17	79	76	0	.....	6	0.00	0.0	30.09	29.92	30.011	0.2	0.2	4	10	NW	5	329	96
23	7.3	-13.0	-2.8	-3.1	-9	77	68	0	.....	6	0.00	0.0	30.22	30.01	30.100	0.1	0.1	277	8	WNW	3	290	87
24	12.9	-10.6	1.1	1.2	-8	67	64	0	.....	6	0.00	0.0	30.28	29.78	30.119	1.9	1.9	206	26	SW	12	209	96
25	19.0	12.6	15.8	16.1	9	73	49	0	.....	4	0.03	0.3	29.78	29.25	29.460	4.7	4.7	208	27	SSW	15	214	25
26	18.2	-5.9	6.2	4.4	-5	63	59	0	.....	4	0.00	0.0	29.73	29.27	29.636	2.7	2.3	288	27	NW	17	302	81
27	27.5	1.9	14.7	17.0	6	62	50	0	.....	4	T	T	29.96	29.29	29.633	5.1	4.4	248	35	W	22	279	49
28	14.6	1.1	7.9	7.0	-7	53	57	0	.....	4	0.00	0.0	30.21	29.96	30.119	2.7	2.5	252	24	W	12	297	102
29	14.6	-0.2	7.2	8.0	-5	56	57	0	.....	3	0.00	0.0	30.15	29.90	30.030	1.9	1.7	231	19	SW	10	276	94
30	24.6	3.2	13.9	15.8	4	62	51	0	.....	3	0.00	0.0	30.33	29.92	30.180	3.8	3.8	206	30	SSW	13	198	107
31	32.7	21.7	27.2	26.3	13	57	37	0	.....	3	0.00	0.0	30.14	29.88	29.980	4.0	3.8	215	30	SSW	14	205	53
Sum	Sum	-----	-----	---	----	Ttl	Ttl						For the month:						---					
741	223					1527	0	Number of Days		3.14	12.6	30.59	29.07	29.926	2.8	2.3	228	38	NW	22	279			
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl	Date	Date	-----	----	----	----	Date	Date	Avg					
23.9	7.2	15.6	15.7	9	74.3	----	----	≥.01 inch	12	3.14	36.4	9	11	-----	----	----	7	27	51					
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			4655	0	Thunder	0	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	1	0.00	-	4.9	20				11		3							
0	20	29	11	----	----	Clear	4	Partly Cloudy			10	Cloudy			17									

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

January 2014: Westford

Hour	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																																																																																																																																																																																																										
JAN 01										JAN 02										JAN 03																																																																																																																																																																																																											
01	0	30.12	0.00	6	4	90	12	0	0	0	30.43	0.00	-7	-12	78	02	0	0	0	30.05	0.00	-11	-15	83	02	1	7	04	0	30.17	0.00	7	4	87	03	0	0	0	30.41	0.00	-9	-13	82	01	0	0	0	30.03	0.00	-11	-14	83	04	1	8	07	0	30.23	0.00	4	2	88	23	0	0	0	30.40	0.00	-11	-14	83	02	0	0	0	30.10	0.00	-12	-16	82	35	1	9	10	251	30.32	0.00	8	3	81	32	2	5	79	30.36	0.00	-8	-13	79	31	0	1	121	30.20	0.00	-11	-16	77	34	1	9	13	214	30.32	0.00	10	3	72	00	1	4	69	30.25	0.00	-8	-13	80	01	0	1	297	30.24	0.00	-7	-14	70	01	1	10	16	9	30.37	0.00	3	-2	78	02	0	3	7	30.17	0.00	-11	-16	81	34	0	3	35	30.33	0.00	-9	-16	71	07	0	0	19	0	30.43	0.00	-4	-9	80	03	1	9	0	30.15	0.00	-12	-16	82	35	0	3	0	30.40	0.00	-16	-20	83	11	0	0	22	0	30.45	0.00	-8	-13	77	36	0	0	0	30.10	0.00	-11	-14	83	33	0	3	0	30.40	0.00	-15	-19	84	11	0	0
JAN 04										JAN 05										JAN 06																																																																																																																																																																																																											
01	0	30.40	0.00	-11	-16	80	20	3	6	0	30.16	0.00	20	9	61	19	6	16	0	29.61	0.00	39	37	92	18	7	18	04	0	30.37	0.00	-5	-11	74	19	1	7	0	30.16	0.00	21	11	64	21	3	9	0	29.44	0.00	42	39	91	19	5	15	07	0	30.35	0.00	-1	-9	69	19	3	17	0	30.18	0.00	21	11	65	20	2	8	0	29.25	0.00	45	43	90	21	2	19	10	104	30.28	0.00	7	-2	66	19	10	21	97	30.21	0.00	25	12	59	20	6	15	12	29.26	0.00	46	45	97	24	6	13	13	371	30.12	0.00	16	-1	48	20	12	33	95	30.14	0.00	28	14	56	19	2	9	77	29.29	0.00	34	29	81	27	8	24	16	11	30.10	0.00	19	4	50	20	10	23	12	30.11	0.00	28	20	71	09	0	0	11	29.37	0.00	30	21	70	26	6	20	19	0	30.10	0.00	18	6	59	20	8	23	0	30.03	0.00	28	23	81	08	0	0	0	29.41	0.00	25	15	66	28	14	20	22	0	30.10	0.00	19	8	60	20	5	22	0	29.84	0.00	31	29	93	17	0	0	0	29.42	0.00	22	16	77	26	3	18
JAN 07										JAN 08										JAN 09																																																																																																																																																																																																											
01	0	29.47	0.00	14	3	60	27	13	23	0	30.07	0.00	4	-1	78	22	3	11	0	30.36	0.00	12	6	76	21	1	4	04	0	29.56	0.00	9	-1	64	26	13	24	0	30.16	0.00	6	-2	72	21	2	10	0	30.39	0.00	13	8	81	22	0	5	07	0	29.64	0.00	7	-6	54	29	14	25	0	30.24	0.00	6	-1	74	19	3	10	0	30.46	0.00	15	8	75	24	3	7	10	123	29.75	0.00	7	-3	63	28	12	21	125	30.33	0.00	8	1	72	20	4	12	287	30.57	0.00	16	6	65	30	6	16	13	127	29.78	0.00	7	-7	51	26	9	18	84	30.30	0.00	15	3	59	20	2	8	153	30.55	0.00	18	7	61	34	0	1	16	18	29.86	0.00	6	-7	55	25	6	26	18	30.33	0.00	14	5	67	20	0	3	21	30.56	0.00	18	6	59	25	0	1	19	0	29.91	0.00	5	-6	62	23	7	15	0	30.35	0.00	11	4	70	20	1	4	0	30.55	0.00	11	5	76	25	0	0	22	0	29.99	0.00	4	-4	69	23	1	10	0	30.36	0.00	12	5	71	20	2	8	0	30.53	0.00	14	7	76	20	0	3
JAN 10										JAN 11										JAN 12																																																																																																																																																																																																											
01	0	30.47	0.00	15	8	75	21	0	4	0	30.09	0.00	31	28	87	18	0	8	0	29.19	0.00	43	37	79	27	5	20	04	0	30.41	0.00	17	10	72	20	1	7	0	29.96	0.00	37	34	86	17	3	10	0	29.29	0.00	39	32	76	25	5	17	07	0	30.38	0.00	20	11	68	20	4	14	0	29.80	0.00	35	34	96	19	4	12	0	29.37	0.00	36	31	79	25	9	27	10	135	30.36	0.00	23	20	88	21	3	15	37	29.66	0.00	43	42	98	20	8	17	39	29.53	0.00	35	30	82	24	1	6	13	207	30.27	0.00	27	23	83	21	11	19	9	29.42	0.00	47	46	98	19	5	15	156	29.55	0.00	37	30	77	26	6	12	16	18	30.25	0.00	29	25	84	21	6	14	0	29.31	0.00	43	43	98	22	0	0	11	29.68	0.00	36	26	68	26	2	16	19	0	30.24	0.00	30	26	84	19	4	7	0	29.16	0.00	50	49	98	19	7	16	0	29.80	0.00	34	25	69	28	7	17	22	0	30.20	0.00	32	28	85	20	5	10	0	29.14	0.00	50	49	98	26	11	23	0	29.86	0.00	34	26	74	27	1	10
JAN 13										JAN 14										JAN 15																																																																																																																																																																																																											
01	0	29.91	0.00	33	26	74	24	1	8	0	29.67	0.00	43	35	76	20	7	24	0	29.75	0.00	33	29	86	30	1	3	04	0	29.94	0.00	30	25	83	22	3	8	0	29.64	0.00	41	37	86	20	6	13	0	29.82	0.00	31	28	91	32	0	0	07	0	29.90	0.00	31	25	79	19	2	11	0	29.65	0.00	41	36	84	20	6	12	0	29.82	0.00	28	26	94	16	0	0	10	207	29.89	0.00	37	27	66	19	9	18	70	29.65	0.00	41	39	95	18	2	12	193	29.85	0.00	36	30	79	19	4	10	13	95	29.80	0.00	42	25	51	20	6	24	32	29.65	0.00	41	39	96	20	4	9	348	29.79	0.00	42	32	69	21	6	18	16	28	29.76	0.00	44	26	48	21	8	23	5	29.63	0.00	40	39	97	20	0	0	5	29.82	0.00	40	32	73	21	4	11	19	0	29.74	0.00	44	31	59	20	9	25	0	29.66	0.00	37	37	97	30	0	0	0	29.86	0.00	36	32	87	27	0	0	22	0	29.70	0.00	44	31	60	20	9	32	0	29.72	0.00	35	35	97	30	3	13	0	29.88	0.00	31	30	95	01	0	0
JAN 16										JAN 17										JAN 18																																																																																																																																																																																																											
01	0	29.90	0.00	28	26	94	35	0	0	0	29.87	0.00	24	23	96	06	0	0	0	29.83	0.00	25	21	88	20	0	0	04	0	29.89	0.00	27	26	95	06	0	0	0	29.86	0.00	20	18	93	10	0	0	0	29.82	0.00	22	20	90	20	0	0	07	0	29.91	0.00	26	24	93	32	0	0	0	29.87	0.00	24	23	95	21	0	4	0	29.78	0.00	18	16	92	20	0	0	10	23	29.93	0.00	28	26	91	06	0	0	42	29.86	0.00	28	25	91	18	0	5	278	29.76	0.00	29	24	81	20	0	4	13	26	29.89	0.00	28	26	92	07	0	4	113	29.80	0.00	31	25	77	21	7	16	253	29.67	0.00	38	24	55	13	0	1	16	7	29.87	0.00	28	25	92	02	0	5	28	29.83	0.00	32	25	77	19	4	12	40	29.65	0.00	36	25	65	31	0	0	19	0	29.89	0.00	26	24	93	06	0	0	0	29.85	0.00	29	24	82	20	2	7	0	29.68	0.00	29	25	84	32	2	9	22	0	29.89	0.00	25	23	95	06	0	0	0	29.85	0.00	30	24	79	21	2	8	0	29.68	0.00	28	25	88	06	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	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

January 2014: Westford

Hour	JAN 19									JAN 20									JAN 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	29.66	0.00	27	25	92	06	0	0	0	29.39	0.00	27	23	85	22	2	13	0	29.98	0.00	-5	-10	79	28	0	0
04	0	29.65	0.00	27	25	93	22	0	2	0	29.44	0.00	19	16	90	01	2	12	0	30.05	0.00	-10	-15	80	01	0	0
07	0	29.59	0.00	25	22	89	26	0	0	0	29.50	0.00	15	13	91	03	0	5	0	30.10	0.00	-13	-17	83	04	0	0
10	19	29.52	0.00	25	23	93	20	2	9	19	29.58	0.00	13	10	87	01	0	3	308	30.11	0.00	-6	-13	72	07	1	5
13	128	29.40	0.00	24	20	84	22	9	20	26	29.56	0.00	11	7	81	01	0	5	258	30.12	0.00	-2	-13	59	29	0	0
16	14	29.37	0.00	23	19	85	21	8	17	35	29.69	0.00	6	1	79	34	0	3	76	30.10	0.00	-1	-11	61	02	0	1
19	0	29.36	0.00	23	19	83	21	9	20	0	29.83	0.00	-1	-6	78	01	0	0	0	30.12	0.00	-11	-17	75	00	0	1
22	0	29.37	0.00	25	21	82	21	7	12	0	29.91	0.00	-2	-8	73	29	1	12	0	30.13	0.00	-13	-18	80	01	0	0
JAN 22									JAN 23									JAN 24									
01	0	30.08	0.00	-16	-20	83	03	0	0	0	30.02	0.00	-12	-16	83	08	0	0	0	30.21	0.00	-7	-12	78	21	0	1
04	0	30.05	0.00	-17	-20	82	02	0	0	0	30.05	0.00	-8	-12	83	07	0	0	0	30.24	0.00	-9	-13	81	25	0	0
07	0	30.04	0.00	-18	-21	83	03	0	1	0	30.07	0.00	-10	-13	84	08	0	0	0	30.28	0.00	-10	-14	82	00	0	0
10	297	30.03	0.00	-9	-14	79	35	1	8	334	30.09	0.00	1	-4	78	28	3	8	320	30.26	0.00	-2	-9	70	29	1	7
13	452	29.93	0.00	-5	-13	66	34	2	9	394	30.08	0.00	7	-3	63	20	0	0	434	30.16	0.00	5	-6	60	21	2	9
16	67	29.97	0.00	-5	-12	69	01	1	5	37	30.10	0.00	4	-3	70	32	0	0	83	30.04	0.00	9	-6	50	19	2	9
19	0	29.99	0.00	-14	-17	83	08	0	0	0	30.16	0.00	-4	-8	82	02	0	0	0	29.97	0.00	9	-2	61	20	3	15
22	0	30.01	0.00	-13	-17	84	07	0	0	0	30.21	0.00	-4	-10	76	32	0	3	0	29.84	0.00	12	-1	54	20	10	23
JAN 25									JAN 26									JAN 27									
01	0	29.76	0.00	13	-0	56	20	6	22	0	29.32	0.00	12	8	83	33	3	13	0	29.63	0.00	15	8	73	20	4	12
04	0	29.67	0.00	13	1	59	20	9	19	0	29.53	0.00	-1	-10	66	27	1	10	0	29.50	0.00	20	14	77	20	4	14
07	0	29.57	0.00	14	1	55	21	5	17	0	29.64	0.00	-5	-13	68	24	2	13	0	29.33	0.00	22	15	74	21	7	17
10	98	29.52	0.00	16	7	67	21	4	14	311	29.71	0.00	-1	-12	59	29	6	14	77	29.42	0.00	27	20	74	20	4	16
13	90	29.39	0.00	18	13	82	20	3	15	436	29.70	0.00	6	-9	49	20	1	3	459	29.61	0.00	22	5	48	25	11	32
16	18	29.32	0.00	18	15	88	21	3	14	42	29.70	0.00	7	-6	54	19	0	0	74	29.73	0.00	18	-2	41	28	3	16
19	0	29.29	0.00	18	14	84	20	5	17	0	29.71	0.00	8	-2	62	21	0	1	0	29.85	0.00	10	-2	58	30	0	12
22	0	29.25	0.00	18	14	86	20	6	14	0	29.71	0.00	12	1	62	19	2	6	0	29.93	0.00	6	-6	56	27	0	4
JAN 28									JAN 29									JAN 30									
01	0	29.97	0.00	4	-13	45	26	2	6	0	30.14	0.00	5	-7	56	21	0	5	0	30.17	0.00	10	3	72	21	1	4
04	0	30.01	0.00	3	-9	57	26	3	10	0	30.08	0.00	2	-9	60	20	0	1	0	30.23	0.00	6	2	80	19	0	0
07	0	30.10	0.00	2	-9	59	25	3	11	0	30.05	0.00	-0	-10	62	20	0	0	0	30.28	0.00	7	3	82	20	0	5
10	332	30.20	0.00	7	-7	51	24	5	13	336	30.02	0.00	8	-8	48	19	6	19	304	30.32	0.00	15	5	66	20	6	17
13	455	30.15	0.00	13	-7	40	26	5	20	450	29.90	0.00	13	-5	43	21	4	12	411	30.24	0.00	22	10	61	20	3	15
16	90	30.15	0.00	13	-3	49	23	4	11	47	29.94	0.00	14	-1	52	25	6	16	91	30.16	0.00	23	6	46	20	1	11
19	0	30.16	0.00	8	-4	58	20	2	10	0	30.01	0.00	11	-1	58	22	1	7	0	30.10	0.00	21	3	46	20	3	10
22	0	30.17	0.00	7	-5	56	22	2	12	0	30.09	0.00	10	1	68	24	1	6	0	30.01	0.00	22	5	48	19	11	23
JAN 31																											
01	0	29.90	0.00	23	4	45	21	9	27																		
04	0	29.89	0.00	22	6	50	20	7	20																		
07	0	29.92	0.00	22	7	51	21	5	13																		
10	97	29.96	0.00	25	9	50	22	4	17																		
13	214	29.96	0.00	30	15	54	22	3	8																		
16	33	30.00	0.00	31	20	62	23	1	13																		
19	0	30.06	0.00	28	18	67	21	0	1																		
22	0	30.12	0.00	29	20	69	26	0	7																		

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

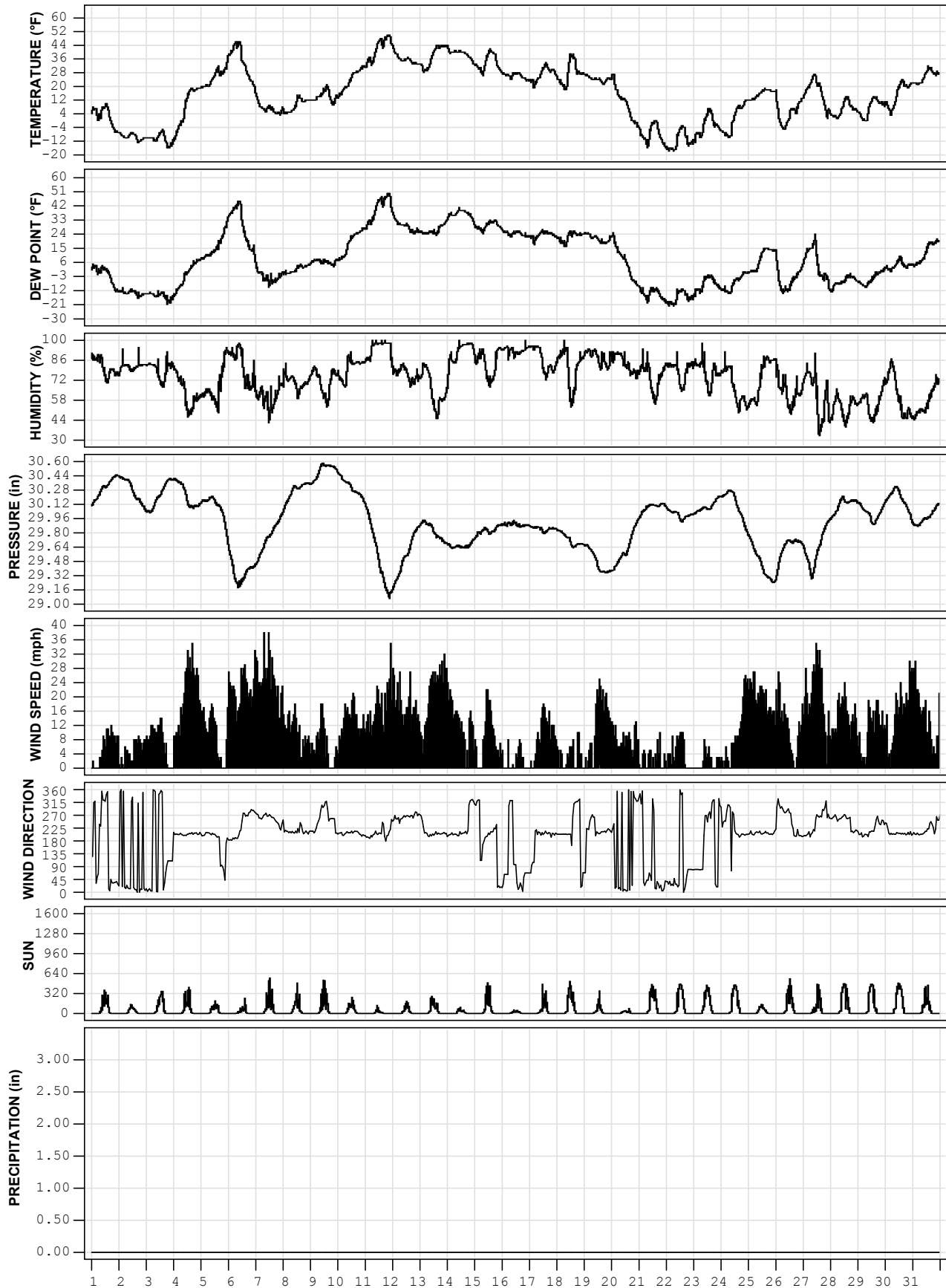
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01	0	29.921	14	8	77	2.4	23	1.9
04	0	29.926	13	7	78	2.3	22	1.8
07	0	29.929	12	7	78	2.4	23	1.9
10	164	29.952	17	10	75	3.8	23	2.8
13	224	29.904	20	10	67	4.0	23	3.4
16	32	29.913	19	10	68	2.5	23	2.1
19	0	29.931	16	9	74	2.8	23	2.2
22	0	29.931	16	9	76	2.7	22	2.3

HOURLY PRECIPITATION (Water Equivalent) January 2014: Westford

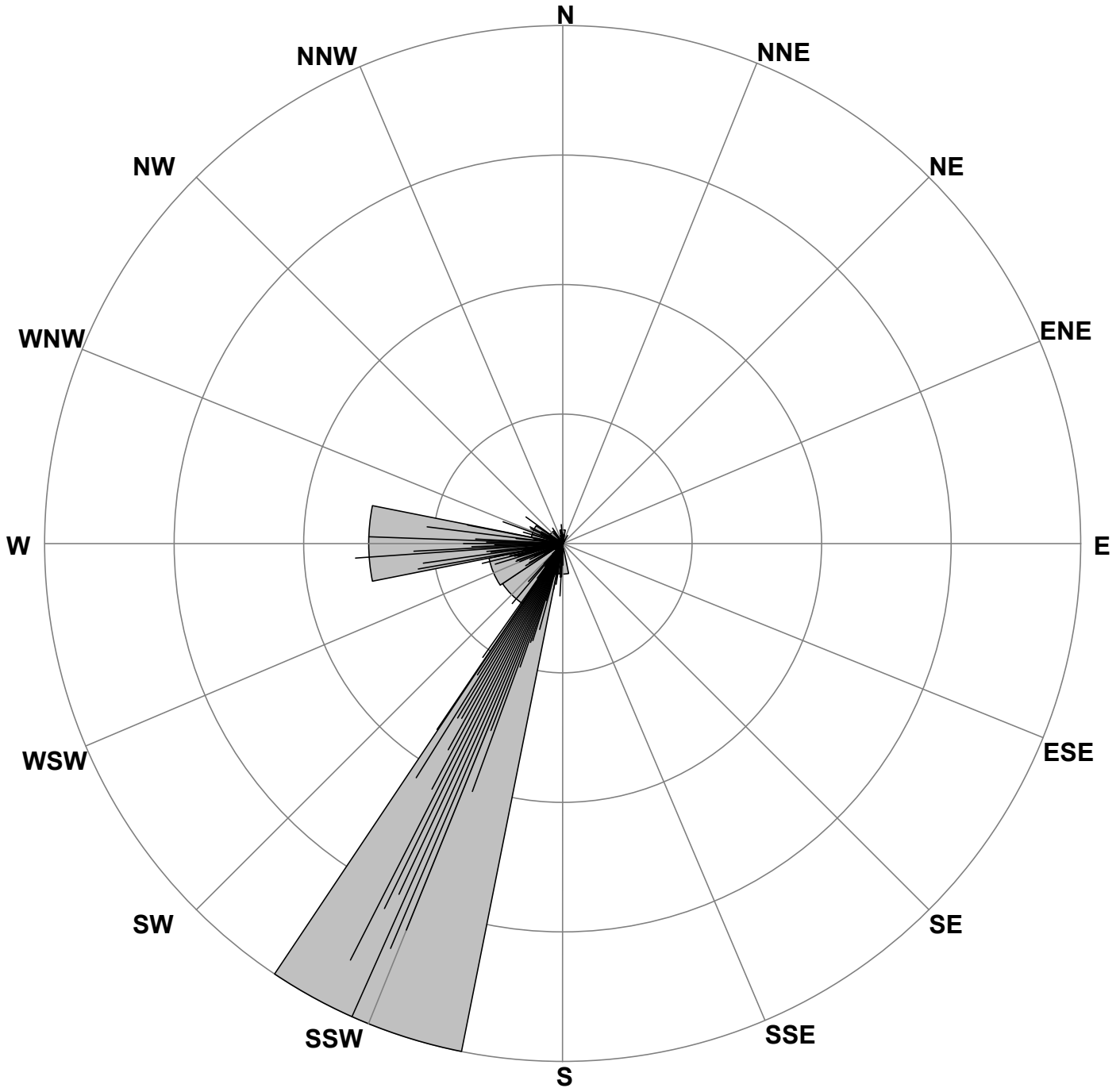
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01																								01	
02																									02
03																									03
04																									04
05																									05
06																									06
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29																									29
30																									30
31																									31
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 January 2014: Westford



**Wind Rose: January 2014
Westford**



**Maximum direction of wind: 116.2 miles from 204°
Maximum sector of wind: 1121.9 miles from SSW
2084.7 total miles of wind**