

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

January 2007

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 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						Sun	
	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		11	12	13	14	15	16	17	18	19	20	21	22	23	
1	41.1	28.8	34.9	36.3	34	91	30	0	.....	2	0.39	0.0	30.06	29.60	29.807	3.8	3.2	171	22	S	8	162
2	38.3	24.5	31.4	30.2	23	73	33	0	.....	1	0.00	0.0	30.17	29.59	29.960	6.2	4.9	284	32	W	0	0
3	41.1	26.0	33.5	33.8	22	63	31	0	.....	1	0.00	0.0	30.19	29.96	30.072	6.3	6.1	189	26	S	0	0
4	47.0	34.7	40.9	41.1	25	53	24	0	.....	T	0.00	0.0	30.01	29.82	29.931	5.7	5.6	188	27	S	0	0
5	53.5	43.6	48.5*	50.1	42	76	16	0	.....	0	0.25	0.0	29.82	29.62	29.719	6.8	6.6	186	29	S	0	0
6	56.7*	37.5	47.1	49.7	47	90	17	0	.2.....	0	1.06	0.0	29.85	29.30	29.516	5.7	4.5	240	35	SW	0	0	
7	40.3	32.5	36.4	36.6	25	63	28	0	.....	T	T	0.0	30.25	29.85	30.112	4.0	3.2	267	24	W	0	0
8	41.3	32.5	36.9	37.1	32	83	28	0	.....	0	0.38	0.0	29.98	29.30	29.512	7.3	5.6	209	28	S	13	239
9	34.0	25.3	29.6	30.9	20	64	35	0	.....	T	T	0.0	29.73	29.47	29.585	6.0	5.7	247	27	WSW	0	0
10	25.3	7.4	16.3	16.3	7	65	49	0	.....	3	0.16	3.2	30.36	29.73	30.014	5.3	5.1	302	27	W	0	0
11	30.7	1.3	16.0	16.5	6	63	49	0	.....	2	0.00	0.0	30.53	30.18	30.385	7.1	6.8	180	38	S	0	0
12	40.2	30.6	35.4	34.0	26	72	29	0	.....	T	0.00	0.0	30.18	30.00	30.103	7.6	7.4	190	34	S	0	0
13	41.1	11.4	26.2	25.1	22	87	39	0	.....	T	0.19	0.1	30.35	29.97	30.190	2.3	1.0	278	24	SSW	0	0
14	24.1	12.8	18.5	19.7	16	84	46	0	.....	2	0.15	1.5	30.33	30.21	30.274	0.1	0.1	5	5	N	0	0
15	29.0	14.3	21.7	20.7	18	88	43	0	...4.6...	6	0.75	3.6	30.31	29.70	29.942	1.0	0.4	333	12	NW	0	0	
16	14.3	-4.3	5.0	8.5	3	80	60	0	.....	9	0.13	3.6	30.39	29.76	30.052	2.2	2.1	308	21	NW	0	0
17	5.6	-8.4	-1.4	-3.3	-11	69	66	0	.....	8	0.01	0.1	30.73	30.39	30.621	1.4	1.1	297	14	WNW	0	0
18	28.2	5.4	16.8	19.1	11	71	48	0	.....	7	0.00	0.0	30.63	29.93	30.324	7.3	7.2	187	32	S	0	0
19	28.8	24.7	26.8	27.1	25	92	38	0	.....	10	0.20	2.8	29.93	29.55	29.660	3.0	1.6	232	24	WNW	0	0
20	24.7	2.4	13.6	10.2	1	66	51	0	.....	8	0.07	0.7	30.24	29.56	29.872	8.9	8.6	299	30	WNW	0	0
21	12.1	-3.3	4.4	3.5	-7	62	60	0	.....	8	0.00	0.0	30.40	30.14	30.294	1.3	1.1	318	19	NW	0	0
22	21.1	4.7	12.9	10.8	3	70	52	0	.....	7	T	T	30.14	29.79	29.936	0.4	0.1	63	8	SSW	0	0
23	23.6	5.4	14.5	15.7	9	75	50	0	.....	7	0.00	0.0	29.86	29.75	29.795	2.7	2.6	184	17	S	0	0
24	24.7	0.3	12.5	16.8	8	68	52	0	.....	7	0.08	1.0	29.98	29.74	29.878	3.1	1.4	248	22	NW	0	0
25	2.8	-8.4	-2.8	-2.1	-11	67	68	0	.....	7	0.00	0.0	29.95	29.86	29.903	1.8	1.7	314	21	NW	0	0
26	-2.4	-13.0	-7.7*	-6.7	-16	65	73	0	.....	8	0.05	0.5	30.00	29.87	29.926	2.8	2.7	309	17	NNW	0	0
27	9.5	-13.5*	-2.0	-0.2	-9	67	67	0	.....	8	0.01	0.1	29.97	29.64	29.779	0.2	0.2	14	6	ENE	0	0
28	15.6	-0.6	7.5	7.7	1	74	57	0	.....	9	0.05	1.0	29.75	29.62	29.687	0.3	0.3	323	7	NW	0	0
29	13.8	-2.4	5.7	3.5	-6	65	59	0	.....	8	0.00	0.0	29.90	29.70	29.804	0.5	0.5	305	11	WNW	0	0
30	10.2	-10.3	-0.1	-0.1	-14	53	65	0	.....	8	0.00	0.0	29.99	29.85	29.913	0.1	0.0	58	6	SSE	0	0
31	22.2	-3.9	9.2	9.1	1	71	56	0	.....	8	T	T	29.96	29.80	29.879	1.9	1.7	206	20	SSW	0	0
Sum	Sum	-----	-----	---	----		Ttl	Ttl					For the month:						---				
838	338						1419	0	Number of Days			3.93	18.2	30.73	29.30	29.950	3.7	2.1	231	38	S	13	239
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip			Season Ttl	Date	Date	-----	----	----		Date	Date		Avg	
27.0	10.9	19.0	19.3	11	71.9	----	----		≥.01 inch	16		3.93	35.4	17	8	-----	----	----		11	8		
Number of Days							Season to Date	Snow, Ice ≥1.0 inch	7	Greatest in 24 Hours and Dates						Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date							
Max Temperature			Min Temperature			4215	0	Thunder	0	Precipitation			Snow, Ice Plts										
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----			Heavy Fog	1	0.00	-	3.6	16	10			19						
0	20	26	11	----	----			Clear	4	Partly Cloudy			13	Cloudy	14								

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

January 2007: Westford

Hour	JAN 01									JAN 02									JAN 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		30.01	0.00	32	23	69	15	7	12		29.59	0.00	38	35	88	20	4	6		30.16	0.00	27	19	73	20	5	12
04		29.92	0.00	33	30	92	00	0	0		29.68	0.00	34	31	87	29	13	22		30.18	0.00	26	21	81	18	5	12
07		29.92	0.00	35	33	92	18	9	18		29.86	0.00	30	22	74	31	10	20		30.18	0.00	29	22	75	18	7	15
10		29.89	0.00	38	35	92	18	4	11		30.00	0.00	30	21	69	27	10	18		30.11	0.00	35	22	57	20	9	25
13		29.75	0.00	41	37	86	15	6	13		30.03	0.00	29	19	65	31	8	20		29.99	0.00	39	22	49	18	11	21
16		29.71	0.00	40	37	91	18	3	6		30.12	0.00	28	16	60	31	2	7		29.99	0.00	39	22	52	18	7	14
19		29.70	0.00	37	36	98	13	0	3		30.17	0.00	25	18	76	20	2	5		30.00	0.00	37	23	56	20	6	11
22		29.63	0.00	37	36	99	15	2	5		30.17	0.00	26	19	73	20	4	7		29.99	0.00	36	22	55	18	3	7
JAN 04									JAN 05									JAN 06									
01		29.97	0.00	36	23	57	20	3	5		29.80	0.00	46	32	59	18	9	21		29.58	0.00	53	53	100	24	0	2
04		29.98	0.00	37	22	53	18	3	7		29.79	0.00	46	33	60	18	5	8		29.48	0.00	51	50	99	00	0	0
07		30.00	0.00	37	21	53	18	5	13		29.72	0.00	49	34	57	18	7	14		29.44	0.00	52	51	98	20	5	11
10		30.00	0.00	39	24	54	20	7	13		29.70	0.00	50	40	69	18	9	16		29.40	0.00	54	54	100	15	4	8
13		29.90	0.00	46	27	48	18	8	16		29.67	0.00	52	45	79	18	9	18		29.31	0.00	57	57	100	18	4	11
16		29.89	0.00	44	26	49	20	8	13		29.70	0.00	53	48	82	18	4	9		29.45	0.00	51	41	69	24	14	28
19		29.89	0.00	44	27	50	20	9	17		29.71	0.00	53	50	90	18	5	12		29.62	0.00	43	39	88	29	7	17
22		29.86	0.00	46	28	49	18	8	18		29.69	0.00	53	53	100	18	5	11		29.78	0.00	39	33	79	27	8	17
JAN 07									JAN 08									JAN 09									
01		29.89	0.00	37	28	70	24	5	13		29.90	0.00	36	31	83	15	6	11		29.48	0.00	34	24	68	24	8	20
04		30.02	0.00	37	25	62	27	8	17		29.70	0.00	35	33	92	15	4	10		29.53	0.00	32	21	64	27	10	18
07		30.15	0.00	36	26	66	27	5	10		29.55	0.00	37	34	90	15	9	19		29.56	0.00	30	20	67	22	7	13
10		30.25	0.00	36	25	64	27	4	10		29.42	0.00	38	35	89	18	7	17		29.59	0.00	32	18	55	22	4	11
13		30.20	0.00	39	22	50	27	5	9		29.32	0.00	40	39	97	22	7	18		29.55	0.00	33	18	52	24	3	7
16		30.20	0.00	36	21	54	00	0	0		29.38	0.00	40	34	79	24	7	14		29.59	0.00	31	24	75	20	3	6
19		30.17	0.00	34	26	70	18	0	2		29.44	0.00	38	25	60	24	10	18		29.65	0.00	28	19	68	22	3	7
22		30.05	0.00	38	24	57	13	4	12		29.46	0.00	36	27	71	24	9	20		29.69	0.00	28	20	70	27	6	12
JAN 10									JAN 11									JAN 12									
01		29.75	0.00	24	17	77	31	7	13		30.38	0.00	6	-1	70	29	2	7		30.16	0.00	31	15	51	18	11	24
04		29.79	0.00	21	10	61	29	3	8		30.47	0.00	5	-1	77	00	0	0		30.14	0.00	32	17	54	20	10	19
07		29.85	0.00	22	11	64	31	2	7		30.52	0.00	2	-3	81	00	0	0		30.13	0.00	32	19	58	20	8	17
10		29.97	0.00	16	11	81	29	8	17		30.52	0.00	13	3	64	18	7	16		30.12	0.00	33	25	74	18	6	13
13		30.00	0.00	17	4	55	29	7	13		30.44	0.00	21	7	55	18	7	18		30.08	0.00	34	28	80	18	6	10
16		30.11	0.00	13	6	71	31	7	14		30.33	0.00	25	12	58	18	9	19		30.10	0.00	34	30	86	18	5	8
19		30.26	0.00	10	-3	56	27	10	16		30.27	0.00	27	14	57	18	18	32		30.09	0.00	37	32	83	18	6	12
22		30.33	0.00	9	-1	63	29	5	10		30.19	0.00	30	13	48	18	15	27		30.05	0.00	39	35	86	20	6	11
JAN 13									JAN 14									JAN 15									
01		29.98	0.00	41	38	88	20	8	17		30.31	0.00	15	12	89	00	0	0		30.29	0.00	19	14	80	00	1	3
04		29.98	0.00	40	39	98	27	2	6		30.27	0.00	17	13	84	15	0	3		30.22	0.00	20	14	76	00	0	2
07		30.08	0.00	33	32	97	31	4	12		30.27	0.00	19	15	84	00	0	0		30.14	0.00	20	16	85	02	0	2
10		30.22	0.00	24	22	92	00	2	7		30.29	0.00	21	17	87	33	0	2		30.00	0.00	20	18	90	04	1	3
13		30.24	0.00	21	17	83	31	2	9		30.22	0.00	23	19	85	00	0	0		29.77	0.00	26	24	91	15	1	3
16		30.29	0.00	20	12	72	31	3	7		30.25	0.00	23	19	85	00	0	2		29.71	0.00	29	28	96	15	1	2
19		30.35	0.00	14	10	82	00	0	3		30.28	0.00	21	15	79	00	1	5		29.71	0.00	19	17	91	27	4	7
22		30.35	0.00	12	9	86	00	0	0		30.30	0.00	20	14	79	00	0	0		29.77	0.00	15	12	88	00	1	4
JAN 16									JAN 17									JAN 18									
01		29.78	0.00	14	10	87	31	1	6		30.41	0.00	-5	-13	69	29	4	10		30.60	0.00	9	2	72	20	3	6
04		29.84	0.00	12	9	87	00	0	2		30.51	0.00	-7	-13	71	29	4	12		30.52	0.00	9	3	74	18	6	12
07		29.95	0.00	11	8	86	31	0	1		30.60	0.00	-8	-15	70	31	2	6		30.49	0.00	12	5	72	18	5	11
10		30.03	0.00	10	6	83	33	0	2		30.67	0.00	-3	-11	70	00	0	2		30.42	0.00	20	11	69	18	10	20
13		30.04	0.00	12	7	81	31	1	4		30.67	0.00	1	-8	65	00	1	3		30.29	0.00	24	12	59	18	12	21
16		30.11	0.00	8	2	76	31	3	10		30.71	0.00	-1	-9	68	00	0	0		30.22	0.00	25	16	70	20	9	24
19		30.22	0.00	4	-4	70	31	6	12		30.73	0.00	-6	-12	76	00	0	0		30.14	0.00	25	19	76	18	9	17
22		30.33	0.00	-1	-9	69	31	5	13		30.65	0.00	2	-5	71	22	1	4		30.00	0.00	27	20	75	20	6	12

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.

OBSERVATIONS AT 3-HOUR INTERVALS January 2007: 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		29.90	0.00	28	22	78	18	4	9		29.57	0.00	24	20	86	29	7	18		30.26	0.00	2	-8	64	29	6	13
04		29.82	0.00	27	26	95	18	3	7		29.63	0.00	18	12	78	29	9	26		30.33	0.00	-1	-8	70	31	2	7
07		29.70	0.00	26	25	94	18	2	6		29.73	0.00	11	3	71	29	11	21		30.37	0.00	-3	-9	74	00	0	2
10		29.64	0.00	28	26	92	18	3	6		29.83	0.00	8	-2	65	31	11	25		30.39	0.00	4	-8	57	00	2	7
13		29.58	0.00	28	26	92	20	3	6		29.87	0.00	8	-2	63	29	9	20		30.33	0.00	10	-7	46	27	2	5
16		29.57	0.00	28	26	93	29	2	6		29.97	0.00	7	-7	53	31	12	24		30.26	0.00	10	-7	46	04	1	3
19		29.58	0.00	27	26	95	31	5	10		30.11	0.00	5	-8	55	29	9	18		30.26	0.00	5	-5	65	00	0	0
22		29.57	0.00	26	24	92	29	5	8		30.19	0.00	4	-7	61	31	5	12		30.18	0.00	4	-4	68	00	0	0
JAN 22									JAN 23									JAN 24									
01		30.12	0.00	5	-4	66	00	0	0		29.78	0.00	9	5	83	00	0	0		29.75	0.00	24	18	78	20	7	14
04		30.06	0.00	7	-4	60	00	0	0		29.81	0.00	7	3	83	00	0	0		29.75	0.00	25	20	83	20	6	12
07		30.03	0.00	6	1	79	00	0	2		29.83	0.00	7	3	83	00	0	0		29.83	0.00	21	18	87	31	8	17
10		29.98	0.00	12	4	69	04	0	2		29.84	0.00	15	8	74	18	2	3		29.92	0.00	20	11	70	31	4	8
13		29.88	0.00	19	6	55	15	2	5		29.80	0.00	20	8	59	18	4	7		29.91	0.00	21	7	52	31	2	6
16		29.83	0.00	16	8	69	29	1	3		29.77	0.00	21	10	60	20	4	8		29.92	0.00	17	0	47	33	1	3
19		29.83	0.00	11	6	79	29	0	1		29.77	0.00	22	13	69	18	5	10		29.97	0.00	7	-2	64	00	1	7
22		29.81	0.00	9	6	86	00	0	0		29.76	0.00	23	19	82	20	6	13		29.98	0.00	3	-4	73	00	0	0
JAN 25									JAN 26									JAN 27									
01		29.93	0.00	-0	-7	73	27	0	2		29.88	0.00	-5	-12	72	29	2	8		29.96	0.00	-12	-19	70	00	0	0
04		29.91	0.00	-5	-10	78	00	0	0		29.88	0.00	-6	-13	71	31	3	8		29.91	0.00	-11	-18	71	00	0	0
07		29.94	0.00	-8	-14	75	00	0	0		29.88	0.00	-7	-14	69	29	3	7		29.85	0.00	-8	-16	67	00	0	0
10		29.93	0.00	-1	-9	68	00	0	2		29.92	0.00	-6	-15	64	31	4	11		29.80	0.00	-1	-13	57	00	0	2
13		29.87	0.00	1	-12	53	31	1	5		29.91	0.00	-4	-17	52	31	3	7		29.71	0.00	6	-6	58	02	1	3
16		29.87	0.00	0	-11	58	00	1	7		29.94	0.00	-3	-17	51	29	3	6		29.68	0.00	9	-2	62	00	0	2
19		29.89	0.00	-1	-7	73	29	5	10		30.00	0.00	-9	-18	61	00	0	0		29.70	0.00	7	0	73	00	0	0
22		29.88	0.00	-4	-15	58	31	4	12		29.99	0.00	-11	-19	68	00	0	0		29.67	0.00	7	1	73	00	0	0
JAN 28									JAN 29									JAN 30									
01		29.62	0.00	8	2	76	00	0	0		29.71	0.00	-0	-5	78	00	0	0		29.91	0.00	-4	-16	56	00	0	0
04		29.63	0.00	9	4	82	00	0	0		29.73	0.00	-1	-6	79	00	0	0		29.93	0.00	-7	-17	62	00	0	0
07		29.70	0.00	5	-0	80	00	0	0		29.80	0.00	1	-4	79	00	0	0		29.96	0.00	-8	-16	67	00	0	0
10		29.74	0.00	9	2	71	00	0	0		29.84	0.00	4	-1	79	00	0	0		29.98	0.00	-1	-16	49	06	1	2
13		29.68	0.00	14	3	61	31	2	5		29.80	0.00	12	-5	45	29	2	6		29.91	0.00	8	-14	35	29	0	2
16		29.69	0.00	13	2	60	31	2	4		29.80	0.00	11	-6	46	33	0	5		29.87	0.00	8	-13	37	04	1	3
19		29.72	0.00	4	-2	76	00	0	0		29.85	0.00	3	-8	60	00	0	0		29.89	0.00	2	-11	53	00	0	0
22		29.70	0.00	-1	-6	79	00	0	0		29.88	0.00	1	-12	53	29	1	5		29.86	0.00	2	-9	61	00	0	0
JAN 31																											
01		29.84	0.00	-2	-8	74	00	0	0																		
04		29.85	0.00	1	-5	77	00	0	0																		
07		29.87	0.00	2	-4	74	18	2	7																		
10		29.89	0.00	10	0	64	18	5	7																		
13		29.82	0.00	19	2	46	20	6	13																		
16		29.84	0.00	21	10	61	27	9	19																		
19		29.93	0.00	14	9	81	09	0	2																		
22		29.96	0.00	7	3	84	04	0	2																		

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

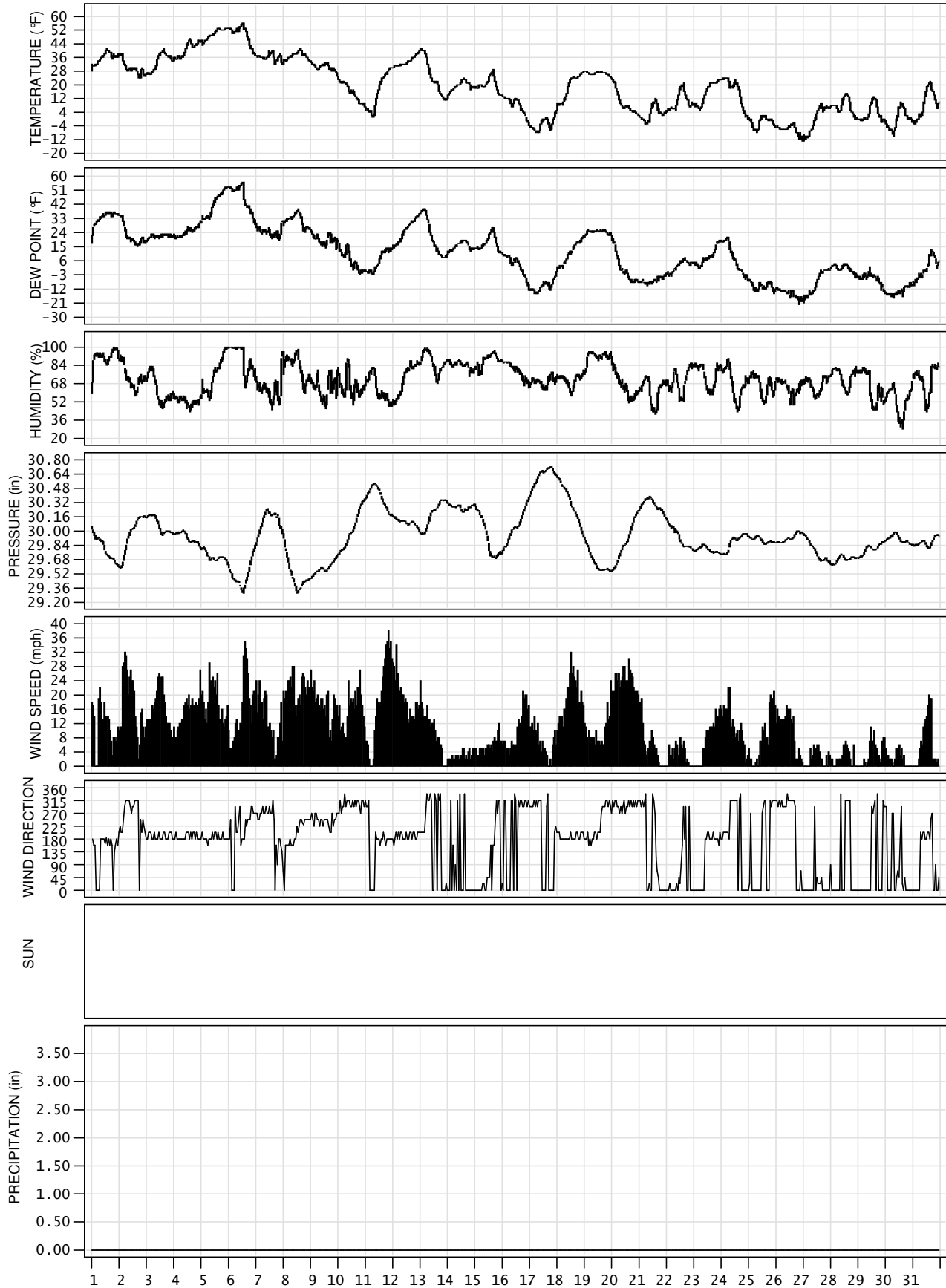
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01		29.944	18	11	74	3.5	22	2.2
04		29.943	17	11	76	3.1	25	2.0
07		29.965	17	10	76	3.6	23	1.9
10		29.976	19	12	72	4.0	22	2.1
13		29.920	23	12	64	4.4	22	2.4
16		29.932	22	12	66	3.9	24	2.3
19		29.964	19	11	72	3.9	23	2.4
22		29.959	18	11	73	3.5	23	2.1

HOURLY PRECIPITATION (Water Equivalent) January 2007: Westford

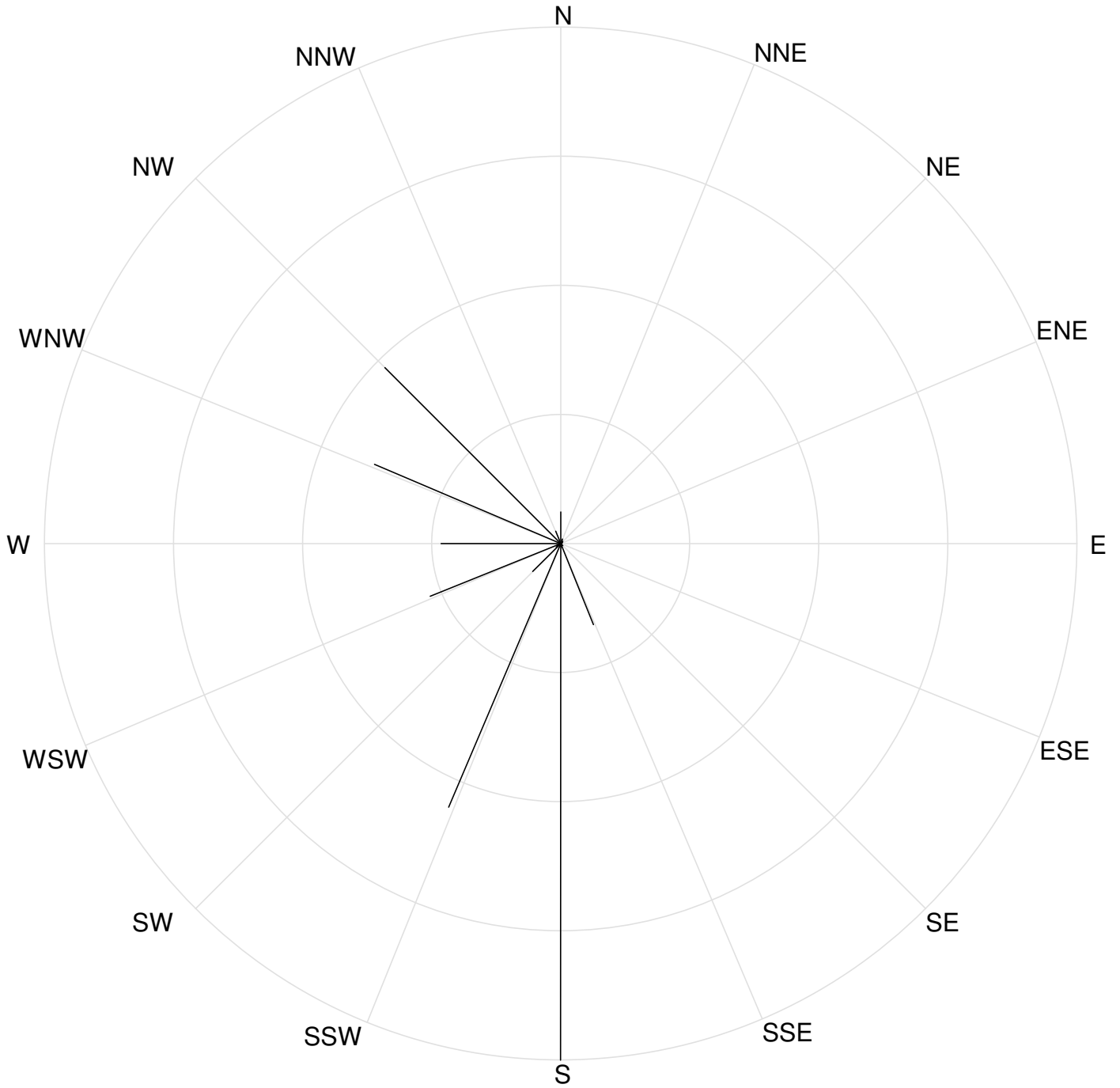
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01																								01	
02																									02
03																									03
04																									04
05																									05
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30																									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 2007: Westford



Wind Rose: January 2007
Westford



Maximum direction of wind: 817.0 miles from 180°.
2715.8 total miles of wind.