

# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary

### February 2006

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

Date	Temperature					Humidity	Deg F		Precip Ty	Snow Cvr	Precip		Pressure			Wind						Sun										
	Maximum	Minimum	Average	Mean	Dew Point		Mean	Heating Base 65°F			Cooling Base 65°F	Water Equivalent	Ice Pellets Snow	Adj. to Sea Level			Avg	Res	Res	Peak			Minute									
														Maximum	Minimum	Mean				Speed	Dir		Speed	Dir	Speed	Dir						
1	2	3	4A	4B	5	6	7	8	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	29.7	25.4	27.6	27.3	24	89	38	0	.....	1	0.06	0.6	29.91	29.76	29.867	0.7	0.6	339	11	NNW	0	0										
2	40.8	26.0	33.4	33.4	26	75	32	0	.....	T	0.00	0.0	29.92	29.85	29.890	3.0	2.7	180	19	S	0	0										
3	44.9	34.9	39.9	39.9	35	84	25	0	.....	0	0.27	0.0	29.86	29.41	29.638	4.9	4.2	186	25	SSE	9	193										
4	44.8	30.9	37.8	40.0	31	72	27	0	.....	0	0.00	0.0	29.93	29.42	29.762	2.5	1.3	188	25	E	0	0										
5	47.6	30.9	39.2	40.2	35	82	26	0	.....	0	0.46	T	29.42	29.10	29.191	4.9	3.6	193	25	SSE	0	0										
6	31.8	17.0	24.4	26.0	16	68	41	0	.....	5	0.35	4.6	29.59	29.23	29.418	8.0	7.1	237	37	WSW	0	0										
7	19.7	12.9	16.3	16.1	6	64	49	0	.....	4	T	T	29.95	29.59	29.801	4.6	4.2	276	17	W	0	0										
8	17.2	5.4	11.3	12.8	5	72	54	0	.....	4	0.00	0.0	30.01	29.95	29.979	1.6	1.5	314	14	WNW	0	0										
9	14.8	3.4	9.1	9.8	2	70	56	0	.....	4	0.01	0.1	30.00	29.91	29.966	1.2	0.9	319	14	W	0	0										
10	12.8	-1.0	5.9	5.6	-4	66	59	0	.....	3	0.02	0.4	30.14	29.98	30.081	1.7	1.6	293	14	NNW	0	0										
11	21.8	-3.1	9.3	9.1	-3	60	56	0	.....	3	0.00	0.0	30.22	30.01	30.135	0.5	0.3	7	7	SE	0	0										
12	18.3	5.0	11.6	11.1	2	65	54	0	.....	3	0.00	0.0	30.01	29.64	29.763	1.2	1.1	329	17	NW	0	0										
13	25.4	6.9	16.1	17.5	6	60	49	0	.....	2	T	T	29.71	29.65	29.682	4.6	4.1	200	22	WSW	0	0										
14	33.4	23.6	28.5	27.6	21	76	37	0	.....	3	0.08	1.0	29.95	29.68	29.843	5.4	5.3	198	21	SSW	0	0										
15	48.9	33.4	41.2*	40.3	26	57	24	0	.....	T	0.00	0.0	30.19	29.92	29.997	7.5	6.4	205	28	S	0	0										
16	39.2	18.6	28.9	26.8	23	85	36	0	.....6...	T	T	T	30.27	29.84	30.160	1.5	0.8	269	17	S	0	0										
17	49.6*	11.1	30.3	31.2	20	64	35	0	.....	T	0.12	T	30.06	29.34	29.720	12.2	8.3	233	47	W	0	0										
18	11.1	-3.3*	3.9*	2.4	-9	59	61	0	.....	1	0.06	0.6	30.21	29.95	30.103	4.5	4.3	315	26	WNW	0	0										
19	21.0	-1.6	9.7	11.4	-1	58	56	0	.....	1	0.00	0.0	30.22	30.01	30.133	5.5	4.9	258	24	WSW	0	0										
20	25.6	12.8	19.2	19.3	8	61	46	0	.....	1	T	T	30.02	29.89	29.950	5.3	4.8	223	20	SW	0	0										
21	29.1	19.1	24.1	23.2	15	71	41	0	.....	1	0.05	0.8	29.92	29.75	29.823	4.0	3.8	192	21	SSW	0	0										
22	33.8	17.8	25.8	27.0	16	65	39	0	.....	T	0.00	0.0	29.99	29.84	29.926	3.1	2.7	191	16	S	0	0										
23	38.6	26.7	32.6	31.4	24	74	32	0	.....	0	T	T	29.84	29.61	29.753	3.2	2.6	193	16	S	0	0										
24	30.0	7.9	19.0	20.0	11	68	46	0	.....	3	0.28	3.4	30.27	29.60	29.922	6.5	5.2	281	30	WNW	0	0										
25	15.4	1.5	8.4	9.2	2	74	57	0	.....	6	0.68	3.6	30.29	29.82	30.052	1.2	0.9	5	14	NW	0	0										
26	11.9	0.0	5.9	5.6	-4	64	59	0	.....	6	0.04	0.4	30.13	29.99	30.054	4.9	4.7	304	29	WNW	0	0										
27	11.7	-2.2	4.7	5.1	-14	43	60	0	.....	6	0.00	0.0	29.99	29.76	29.862	6.6	6.3	288	25	WNW	0	0										
28	16.4	3.9	10.1	10.1	-9	43	55	0	.....	5	T	T	29.76	29.61	29.695	7.1	6.6	266	29	NW	0	0										
Sum	Sum	-----	-----	---	----	Ttl	Ttl			For the month:																	---					
785	364					1250	0	Number of Days		2.48	15.5	30.29	29.10	29.863	4.2	2.6	240	47	W	9	193											
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg												
28.0	13.0	20.5	20.7	11	67.4	----	----	≥.01 inch		13	6.92	81.2	25	5	-----	----	----	---	17	3												
Number of Days							Season to Date		Snow, Ice ≥1.0 inch		Greatest in 24 Hours and Dates					Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date																
Max Temperature			Min Temperature			5362	0	Thunder		0	Precipitation		Snow, Ice Plts																			
≥ 90°F	< 32°F	< 32°F	< 0°F	----	----	Heavy Fog	0	0.00	-	4.6	6	6		25+																		
0	18	26	6	----	----	Clear	2	Partly Cloudy		11	Cloudy		15																			

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/m<sup>2</sup> 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 2006: 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
FEB 01									FEB 02									FEB 03									
01		29.77	0.00	27	26	94	00	0	2	29.88	0.00	27	23	85	20	1	2	29.85	0.00	38	31	77	18	2	5		
04		29.82	0.00	26	24	93	02	1	3	29.89	0.00	28	22	78	18	2	5	29.81	0.00	35	33	90	06	0	3		
07		29.86	0.00	26	25	94	00	0	2	29.91	0.00	28	23	80	20	2	5	29.75	0.00	37	33	84	15	7	11		
10		29.90	0.00	28	26	90	33	0	2	29.90	0.00	34	25	69	18	6	11	29.55	0.00	39	36	86	15	7	25		
13		29.89	0.00	29	24	81	02	1	3	29.90	0.00	37	26	64	20	6	11	29.44	0.00	41	36	82	18	6	13		
16		29.89	0.00	29	25	84	00	0	0	29.88	0.00	41	28	61	15	4	8	29.45	0.00	41	41	99	20	7	13		
19		29.90	0.00	27	25	90	00	0	0	29.89	0.00	33	29	84	00	0	0	29.58	0.00	44	40	85	20	6	11		
22		29.89	0.00	26	23	88	00	0	0	29.86	0.00	38	29	71	15	3	6	29.69	0.00	43	34	69	24	12	19		
FEB 04									FEB 05									FEB 06									
01		29.78	0.00	40	33	76	24	8	12	29.37	0.00	42	39	89	20	5	10	29.25	0.00	30	14	51	22	8	19		
04		29.86	0.00	38	30	75	24	4	7	29.20	0.00	47	42	84	15	4	12	29.30	0.00	27	17	66	20	9	21		
07		29.89	0.00	33	29	86	00	0	0	29.22	0.00	41	40	97	20	3	7	29.40	0.00	25	17	73	24	8	17		
10		29.92	0.00	39	31	71	06	2	4	29.11	0.00	45	42	91	18	3	6	29.43	0.00	28	14	57	24	10	20		
13		29.82	0.00	43	32	65	00	2	6	29.15	0.00	38	36	94	18	1	3	29.41	0.00	30	13	49	24	10	22		
16		29.74	0.00	43	33	67	00	0	0	29.14	0.00	40	28	64	20	6	17	29.47	0.00	27	19	72	27	11	20		
19		29.62	0.00	45	30	56	13	2	10	29.19	0.00	37	30	77	24	5	12	29.52	0.00	25	19	78	24	7	14		
22		29.52	0.00	41	36	83	18	6	13	29.19	0.00	34	27	75	20	6	12	29.54	0.00	19	17	91	31	5	12		
FEB 07									FEB 08									FEB 09									
01		29.62	0.00	16	10	78	31	3	8	29.95	0.00	15	7	70	29	2	7	29.98	0.00	9	4	79	00	0	0		
04		29.68	0.00	15	6	68	24	4	8	29.96	0.00	13	5	70	31	3	7	29.97	0.00	9	4	78	00	0	0		
07		29.74	0.00	13	6	72	24	2	7	29.98	0.00	12	4	72	00	1	3	29.98	0.00	6	1	82	00	0	0		
10		29.80	0.00	16	6	66	24	7	14	29.99	0.00	14	6	68	31	3	7	29.99	0.00	11	3	69	27	2	5		
13		29.81	0.00	18	4	53	29	6	11	29.97	0.00	17	5	61	31	3	8	29.94	0.00	14	1	54	24	1	5		
16		29.86	0.00	19	5	54	29	7	12	29.97	0.00	16	6	64	31	1	5	29.91	0.00	12	2	63	00	2	7		
19		29.92	0.00	16	6	63	29	1	4	29.99	0.00	11	5	78	00	0	1	29.97	0.00	8	3	79	00	0	2		
22		29.94	0.00	15	5	64	31	3	10	30.01	0.00	7	2	81	31	0	2	29.98	0.00	9	1	70	31	2	6		
FEB 10									FEB 11									FEB 12									
01		29.99	0.00	7	0	74	27	1	3	30.14	0.00	-1	-9	70	00	0	0	29.98	0.00	5	-2	72	00	0	0		
04		30.01	0.00	7	2	80	29	2	5	30.14	0.00	-2	-7	80	00	0	0	29.87	0.00	6	-1	70	00	0	0		
07		30.07	0.00	3	-3	75	27	3	6	30.18	0.00	-1	-8	73	00	0	0	29.85	0.00	8	0	70	00	0	0		
10		30.13	0.00	5	-6	62	31	3	8	30.20	0.00	14	0	52	15	0	2	29.78	0.00	14	1	55	31	1	3		
13		30.10	0.00	9	-5	51	31	2	3	30.15	0.00	19	-1	40	00	2	6	29.68	0.00	16	4	59	33	2	10		
16		30.08	0.00	11	-5	47	27	2	5	30.11	0.00	21	0	39	31	1	5	29.65	0.00	17	6	62	33	4	9		
19		30.12	0.00	3	-6	65	00	0	0	30.12	0.00	13	-1	54	04	0	1	29.68	0.00	11	1	63	31	2	6		
22		30.14	0.00	-1	-7	74	00	0	0	30.06	0.00	10	-0	62	02	0	2	29.67	0.00	9	2	73	29	0	2		
FEB 13									FEB 14									FEB 15									
01		29.66	0.00	8	-1	65	22	1	2	29.69	0.00	25	16	71	18	6	18	29.96	0.00	34	23	63	18	7	15		
04		29.68	0.00	8	-1	65	22	1	3	29.72	0.00	24	18	77	20	6	14	29.96	0.00	35	24	64	18	9	20		
07		29.70	0.00	8	-2	64	20	2	6	29.79	0.00	24	20	83	20	4	10	29.95	0.00	35	24	64	18	8	16		
10		29.70	0.00	17	4	56	18	5	11	29.88	0.00	25	22	85	20	4	6	29.93	0.00	40	25	55	18	10	19		
13		29.66	0.00	23	13	67	18	6	12	29.88	0.00	28	24	86	20	4	8	29.92	0.00	45	26	46	20	12	20		
16		29.68	0.00	25	7	46	24	8	14	29.88	0.00	31	21	68	20	4	9	29.99	0.00	47	27	46	24	6	12		
19		29.70	0.00	24	8	51	20	2	6	29.93	0.00	31	22	69	22	4	10	30.08	0.00	43	27	52	27	4	10		
22		29.68	0.00	24	14	65	18	5	14	29.94	0.00	32	21	64	20	7	13	30.14	0.00	42	30	61	24	4	10		
FEB 16									FEB 17									FEB 18									
01		30.21	0.00	37	30	75	00	0	0	29.80	0.00	38	31	76	18	6	12	30.01	0.00	9	1	67	09	1	5		
04		30.26	0.00	34	30	84	31	1	5	29.61	0.00	48	35	61	15	13	24	29.95	0.00	7	1	77	00	2	8		
07		30.26	0.00	29	27	93	00	0	0	29.49	0.00	49	37	65	20	14	33	30.03	0.00	3	-3	74	31	5	18		
10		30.25	0.00	27	21	80	29	4	10	29.34	0.00	46	43	91	18	9	20	30.11	0.00	3	-13	48	31	7	14		
13		30.21	0.00	21	19	90	29	6	12	29.59	0.00	29	15	55	24	16	34	30.15	0.00	2	-14	45	31	6	14		
16		30.15	0.00	19	17	89	29	1	2	29.83	0.00	16	6	64	27	16	28	30.14	0.00	2	-15	44	31	5	11		
19		30.08	0.00	21	18	86	00	0	2	29.99	0.00	15	1	53	29	13	21	30.20	0.00	-2	-15	52	29	3	6		
22		29.93	0.00	24	21	86	18	6	11	30.05	0.00	13	2	61	29	5	17	30.19	0.00	-2	-12	61	29	1	3		

**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  
February 2006: 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
FEB 19									FEB 20									FEB 21									
01		30.22	0.00	-1	-13	54	29	1	3	30.01	0.00	16	6	64	24	5	10	29.87	0.00	21	8	57	20	4	8		
04		30.19	0.00	2	-10	58	20	4	7	29.98	0.00	15	6	68	20	5	8	29.83	0.00	21	9	59	18	4	8		
07		30.20	0.00	5	-4	67	24	4	8	29.98	0.00	14	7	74	20	5	11	29.80	0.00	20	10	63	18	5	12		
10		30.21	0.00	10	-2	59	29	6	12	29.98	0.00	19	9	65	20	8	13	29.81	0.00	22	15	74	20	5	17		
13		30.13	0.00	17	1	49	27	8	14	29.94	0.00	23	11	60	22	8	17	29.76	0.00	26	14	60	20	9	16		
16		30.06	0.00	20	4	50	24	8	16	29.90	0.00	25	10	53	24	5	10	29.77	0.00	25	23	89	20	4	10		
19		30.05	0.00	18	7	61	24	6	11	29.91	0.00	23	8	51	22	8	16	29.84	0.00	24	20	86	00	0	0		
22		30.03	0.00	17	7	63	24	9	17	29.91	0.00	22	9	57	24	2	4	29.89	0.00	25	21	84	22	2	6		
FEB 22									FEB 23									FEB 24									
01		29.92	0.00	24	21	89	20	1	3	29.84	0.00	30	18	61	18	3	5	29.60	0.00	30	27	89	18	7	19		
04		29.94	0.00	24	18	78	24	3	7	29.80	0.00	32	22	67	15	7	13	29.66	0.00	26	15	64	24	4	8		
07		29.98	0.00	18	15	86	18	2	5	29.79	0.00	30	23	75	18	3	6	29.69	0.00	24	16	71	22	5	11		
10		29.98	0.00	27	13	56	20	6	11	29.77	0.00	34	26	74	20	5	8	29.81	0.00	24	21	91	31	8	21		
13		29.94	0.00	30	14	51	20	7	13	29.73	0.00	37	27	68	24	3	7	29.97	0.00	20	10	65	31	12	21		
16		29.89	0.00	32	13	46	18	4	7	29.72	0.00	34	28	79	00	2	7	30.09	0.00	19	1	44	29	10	19		
19		29.90	0.00	30	17	59	20	0	3	29.74	0.00	28	22	78	00	0	0	30.20	0.00	14	1	54	31	5	17		
22		29.86	0.00	30	18	60	18	4	9	29.67	0.00	29	27	91	18	3	9	30.25	0.00	12	-2	54	29	5	12		
FEB 25									FEB 26									FEB 27									
01		30.28	0.00	7	-2	65	00	0	0	30.09	0.00	7	3	82	31	2	9	29.98	0.00	-0	-11	60	31	6	12		
04		30.24	0.00	5	-3	68	00	0	0	30.10	0.00	2	-4	77	00	0	0	29.94	0.00	-0	-11	59	29	9	18		
07		30.16	0.00	2	-5	74	00	0	0	30.12	0.00	1	-7	70	00	0	0	29.93	0.00	-2	-14	57	29	6	11		
10		30.09	0.00	10	-3	56	04	2	5	30.11	0.00	7	-2	67	31	7	13	29.89	0.00	5	-14	42	29	8	16		
13		29.94	0.00	12	7	80	04	1	6	30.02	0.00	11	-7	43	31	8	19	29.81	0.00	10	-14	33	29	7	16		
16		29.82	0.00	15	12	87	00	2	6	30.00	0.00	9	-5	53	27	11	20	29.80	0.00	11	-17	26	27	11	18		
19		29.88	0.00	15	11	86	00	1	6	30.01	0.00	5	-6	58	29	6	14	29.80	0.00	9	-17	30	27	4	8		
22		30.01	0.00	7	2	79	31	2	10	29.99	0.00	3	-11	53	29	10	19	29.77	0.00	8	-8	47	24	4	8		
FEB 28																											
01		29.76	0.00	7	-13	39	27	8	14																		
04		29.75	0.00	5	-13	42	24	4	11																		
07		29.74	0.00	5	-11	49	24	5	12																		
10		29.73	0.00	10	-11	39	27	9	21																		
13		29.65	0.00	15	-12	28	24	9	19																		
16		29.62	0.00	15	-16	23	27	8	14																		
19		29.65	0.00	14	-3	47	29	5	12																		
22		29.68	0.00	11	-1	57	29	8	19																		

**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**

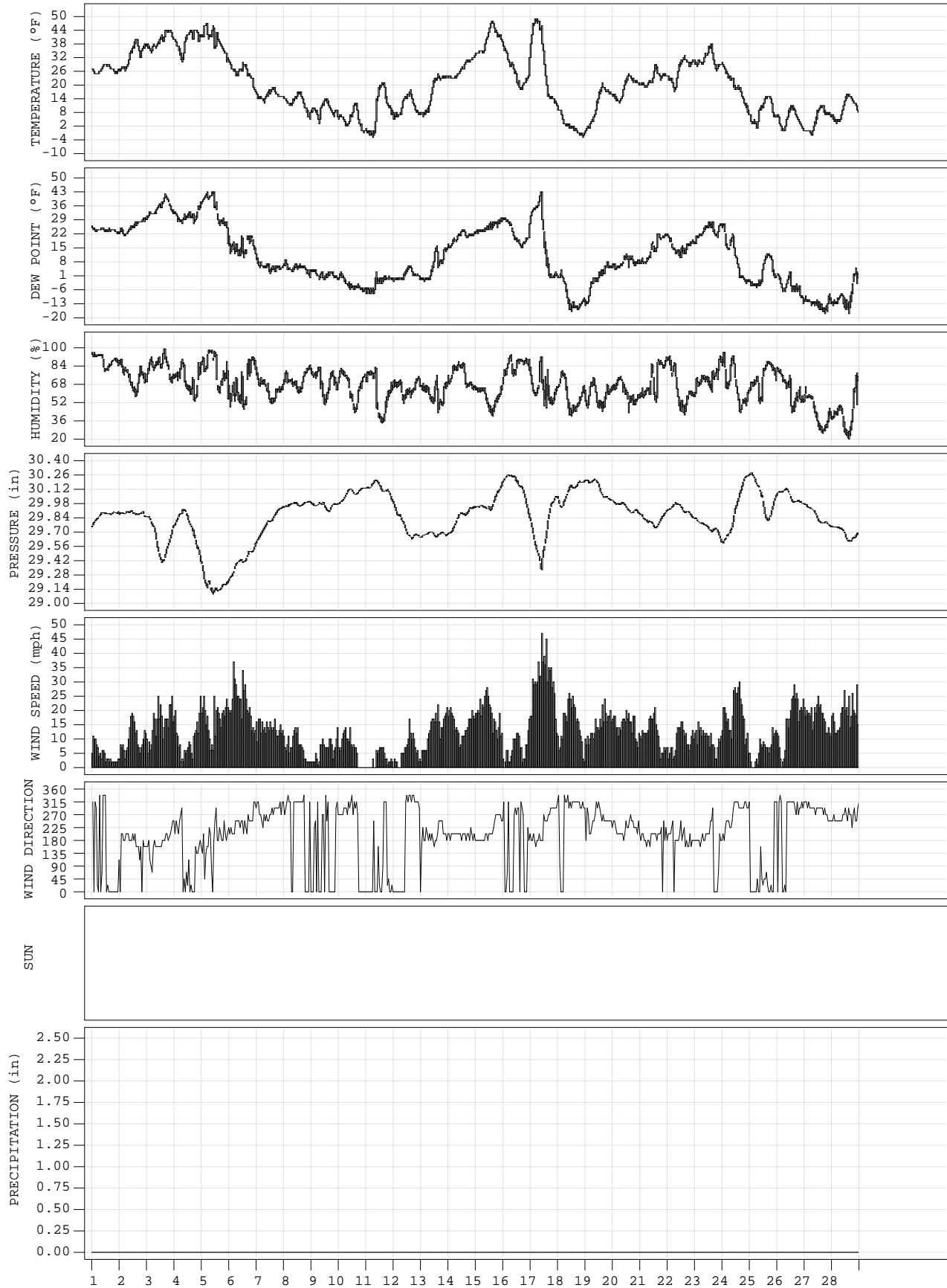
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01		29.874	19	11	71	3.1	22	2.1
04		29.862	19	11	71	3.6	21	2.3
07		29.873	18	11	75	3.4	22	2.5
10		29.867	22	12	67	5.3	24	2.9
13		29.841	24	11	60	5.9	25	3.9
16		29.838	24	11	60	5.4	26	4.1
19		29.874	21	11	66	3.0	26	2.4
22		29.873	20	11	69	4.1	25	2.7

HOURLY PRECIPITATION (Water Equivalent)  
**February 2006: Westford**

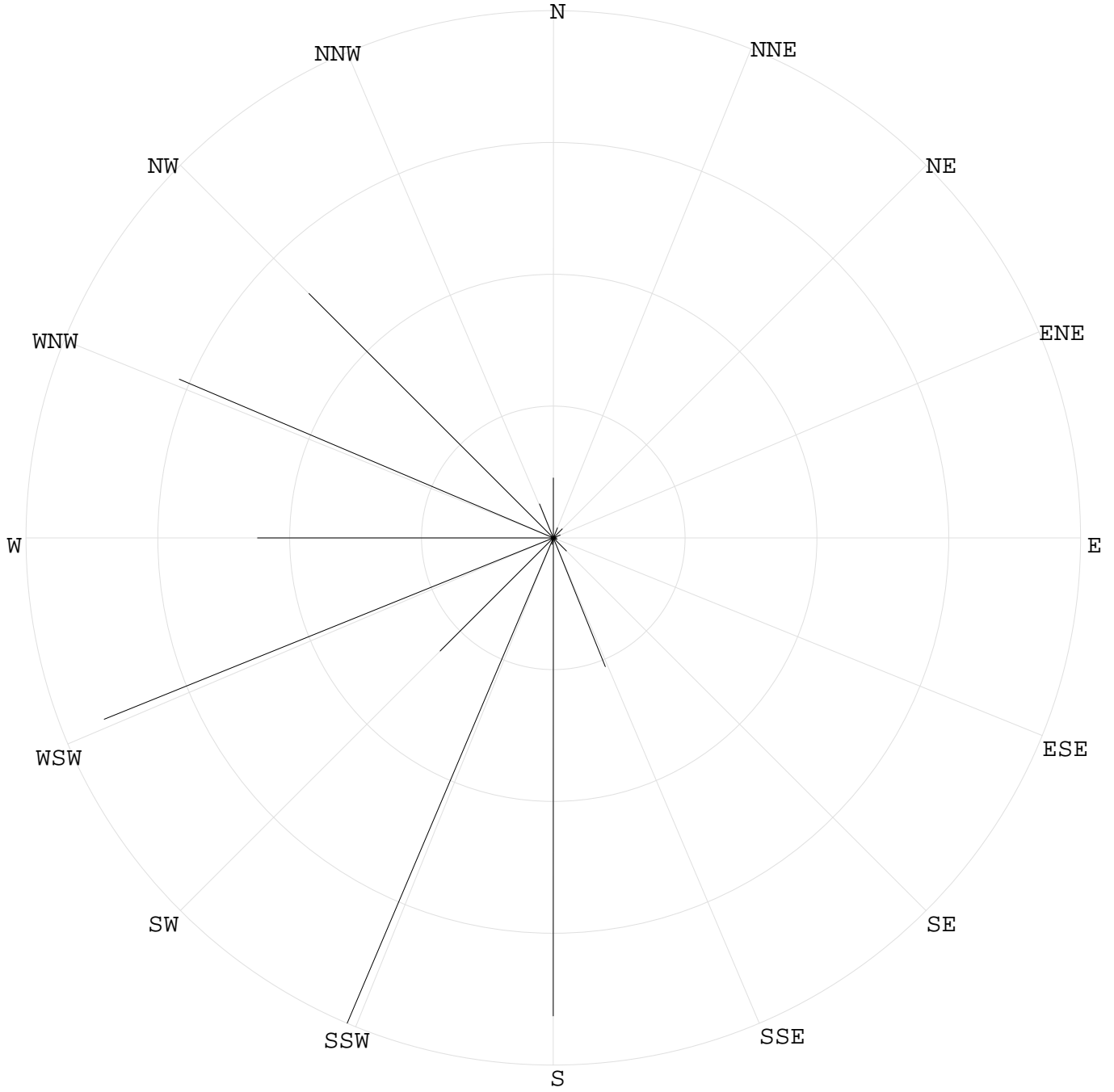
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01																								01	
02																									02
03																									03
04																									04
05																									05
06																									06
07																									07
08																									08
09																									09
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23																									23
24																									24
25																									25
26																									26
27																									27
28																									28
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.)

HOURLY-BY-HOURLY DATA  
February 2006: Westford



Wind Rose: February 2006  
Westford



Maximum direction of wind: 497.5 miles from 203°.  
2827.6 total miles of wind.