

# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary

### November 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	Res	Res	Peak		Minute		
																			Speed	Dir	Speed		Dir
1	2	3	4A	4B	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	53.3	39.6	46.4*	47.2	37	68	18	0	.....	0	0.10	0.0	30.20	29.76	29.932	6.0	4.3	224	30	S	16	183	
2	49.9	28.7	39.3	36.7	25	65	25	0	.....	0	0.01	0.0	30.45	30.20	30.359	0.7	0.5	304	13	W	7	283	
3	46.3	28.8	37.5	35.8	26	69	27	0	.....	0	0.00	0.0	30.33	29.70	30.042	1.6	1.4	354	13	NNW	8	333	
4	49.7	29.1	39.4	39.3	29	68	25	0	.....	0	0.00	0.0	29.89	29.69	29.783	2.5	2.0	271	15	WNW	9	270	
5	52.6	29.2	40.9	41.0	30	67	24	0	.....	0	0.02	0.0	29.95	29.71	29.871	2.9	2.8	182	31	S	16	193	
6	48.2	34.9	41.6	40.6	35	80	23	0	.....	0	0.69	0.0	29.72	29.58	29.630	3.7	3.3	189	24	S	14	172	
7	38.4	31.8	35.1	34.2	27	76	30	0	.....	0	0.11	T	30.13	29.64	29.917	5.2	4.1	262	22	S	15	278	
8	37.4	28.2	32.8	31.4	22	67	32	0	.....	0	0.00	T	30.20	30.13	30.175	1.1	0.8	289	14	WNW	10	276	
9	41.8	23.1	32.4	30.2	22	72	32	0	.....	0	0.00	0.0	30.22	30.13	30.172	0.4	0.3	73	9	NE	5	53	
10	37.6	22.3	29.9	28.3	20	71	35	0	.....	0	0.00	0.0	30.23	30.14	30.186	1.7	1.7	4	17	N	8	23	
11	37.4	21.6	29.5	28.3	19	70	35	0	.....	0	0.00	0.0	30.32	30.22	30.282	1.2	1.1	345	12	NW	6	314	
12	46.2	25.1	35.7	35.0	24	67	29	0	.....	0	0.10	0.0	30.29	29.83	30.126	5.2	5.2	189	30	SSW	18	188	
13	47.6	35.6	41.6	40.5	35	80	23	0	.....	0	0.01	0.0	29.95	29.79	29.893	5.7	3.9	229	28	S	16	198	
14	55.1*	38.6	46.8	48.0	38	68	18	0	.....	0	0.08	0.0	29.87	29.57	29.706	11.0	10.9	192	37	S	24	195	
15	50.7	34.6	42.6	39.4	38	93	22	0	.....	0	1.30	0.0	29.63	29.46	29.525	2.4	1.4	343	16	NNW	9	194	
16	37.4	26.7	32.1	30.7	28	89	33	0	.....	3	0.13	2.9	29.68	29.44	29.543	7.7	7.2	297	32	WSW	17	295	
17	34.2	25.7	30.0	28.5	20	70	35	0	.....	2	0.01	0.0	30.16	29.68	29.914	6.5	6.4	253	22	WSW	15	243	
18	35.5	18.5	27.0	26.1	20	77	37	0	.....	2	0.01	0.0	30.51	30.16	30.390	0.6	0.3	358	7	NW	5	356	
19	38.7	14.6*	26.7	26.5	19	74	38	0	.....	2	0.03	0.0	30.55	30.24	30.444	2.2	2.1	176	17	SSW	10	202	
20	35.1	29.8	32.4	33.0	29	86	32	0	...4....	3	0.13	1.0	30.24	29.94	30.039	7.5	7.4	180	32	S	20	187	
21	34.8	32.4	33.6	33.8	32	94	31	0	.....	3	0.92	0.0	30.08	29.88	29.975	0.8	0.3	75	6	S	4	179	
22	33.8	24.5	29.1	30.9	29	94	35	0	.....6..	2	0.56	0.0	29.90	29.56	29.750	2.3	2.2	305	19	W	11	298	
23	24.5	16.9	20.7	19.8	16	84	44	0	.....	5	0.00	3.5	30.32	29.89	30.115	6.0	5.9	299	21	W	14	292	
24	26.5	14.6	20.6*	21.0	12	68	44	0	.....	4	T	T	30.44	30.19	30.341	4.7	3.2	213	25	S	14	188	
25	39.5	26.2	32.9	31.6	22	67	32	0	.....	2	0.01	0.0	30.20	30.08	30.138	7.0	6.9	191	26	S	15	200	
26	38.5	34.4	36.5	36.2	31	82	28	0	.....	1	0.86	0.0	30.10	29.63	29.945	3.9	3.6	185	19	S	12	184	
27	39.8	29.0	34.4	34.2	31	87	30	0	.....	2	0.14	1.0	30.03	29.56	29.777	4.8	4.3	261	25	SW	17	275	
28	29.1	17.6	23.4	21.4	16	80	41	0	.....	2	0.02	0.8	30.48	30.03	30.333	2.5	2.1	325	21	WNW	12	305	
29	39.1	23.3	31.2	34.1	26	71	34	0	.....	1	0.08	0.0	30.16	29.74	29.880	11.2	10.2	203	34	S	22	182	
30	32.0	24.3	28.1	28.0	18	66	37	0	.....	1	0.03	0.3	30.13	29.86	30.003	8.3	7.2	232	30	SW	18	199	
Sum	Sum	-----	-----	---	----	Ttl	Ttl																---
1211	810					929	0		Number of Days		5.35	9.5	30.55	29.44	30.006	4.2	2.5	229	37	S	24	195	
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip		Season Ttl	Date	Date	-----	----	----	---	Date	Date			Avg	
40.4	27.0	33.7	33.1	26	75.7	----	----		≥.01 inch	22	43.90	9.5	19	16	-----	----	----	---	14	14			
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			1556	346	Thunder	0	Precipitation			Snow, Ice Plts										
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	1.34	14-15	3.5	23												
0	4	24	0	----	----	Clear	3	Partly Cloudy			11	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: 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  
November 2007: Westford**

Hour	NOV 01									NOV 02									NOV 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	29.84	0.00	53	40	62	18	13	19	30.23	0.00	38	24	57	28	4	10	30.31	0.00	30	23	74	28	0	0			
04	29.77	0.00	52	42	67	17	9	27	30.29	0.00	32	23	70	30	0	0	30.27	0.00	31	23	74	33	0	0			
07	29.88	0.11	42	39	88	28	10	16	30.37	0.00	31	24	78	01	0	0	30.23	0.00	29	23	77	02	0	0			
10	29.92	0.00	42	39	91	20	1	4	30.44	0.00	40	28	62	01	0	3	30.15	0.00	36	25	64	04	2	5			
13	29.91	0.00	48	43	82	18	8	15	30.42	0.00	45	28	51	05	1	5	30.02	0.00	45	24	44	05	4	7			
16	29.92	0.00	50	31	48	25	3	12	30.38	0.00	49	28	43	01	1	5	29.89	0.00	43	29	58	33	2	7			
19	30.03	0.00	47	34	61	27	3	12	30.38	0.00	33	27	77	32	0	0	29.82	0.00	37	31	78	32	2	5			
22	30.14	0.00	42	27	54	30	5	14	30.35	0.00	32	25	77	28	0	2	29.74	0.00	34	30	83	34	3	10			
NOV 04									NOV 05									NOV 06									
01	29.70	0.00	34	30	85	30	3	8	29.89	0.00	33	26	77	18	2	4	29.72	0.18	41	37	88	17	4	13			
04	29.70	0.00	30	27	87	20	3	7	29.90	0.00	30	26	84	14	0	0	29.61	0.00	41	37	88	17	4	15			
07	29.75	0.00	33	27	80	23	4	10	29.93	0.00	31	27	84	11	0	0	29.62	0.00	42	39	91	27	10	19			
10	29.79	0.00	41	30	64	28	4	10	29.94	0.00	45	33	65	19	4	9	29.63	0.00	41	39	91	19	0	4			
13	29.77	0.00	49	32	52	29	5	11	29.89	0.00	52	35	52	17	7	11	29.59	0.00	45	38	75	21	2	6			
16	29.80	0.00	47	25	41	30	1	4	29.86	0.00	48	33	55	18	5	11	29.60	0.00	43	30	60	22	0	5			
19	29.85	0.00	41	29	63	06	0	2	29.82	0.00	43	28	57	13	1	5	29.65	0.00	38	30	73	19	1	5			
22	29.88	0.00	38	30	73	04	0	0	29.75	0.00	47	31	54	18	5	17	29.66	0.00	36	29	77	18	6	10			
NOV 07									NOV 08									NOV 09									
01	29.64	0.00	38	29	68	18	5	13	30.13	0.00	31	23	72	28	1	6	30.19	0.00	27	23	83	05	0	0			
04	29.68	0.00	34	32	92	20	4	9	30.15	0.00	31	23	72	30	0	4	30.18	0.00	27	22	82	04	0	0			
07	29.79	0.00	37	34	89	26	11	17	30.18	0.00	30	24	78	10	0	3	30.20	0.00	23	20	87	05	0	0			
10	29.92	0.00	35	27	73	26	7	17	30.20	0.00	33	19	57	30	3	6	30.20	0.00	36	24	63	08	2	4			
13	29.97	0.00	34	25	70	26	6	14	30.17	0.00	34	21	58	12	0	4	30.15	0.00	41	22	48	29	0	2			
16	30.03	0.00	34	25	71	30	2	10	30.16	0.00	33	20	58	16	1	3	30.14	0.00	36	20	52	09	0	2			
19	30.09	0.00	33	24	69	29	3	7	30.19	0.00	31	21	68	10	1	3	30.15	0.00	28	21	77	09	0	0			
22	30.12	0.00	32	24	70	28	1	6	30.20	0.00	29	21	71	03	0	2	30.16	0.00	26	20	79	08	0	0			
NOV 10									NOV 11									NOV 12									
01	30.15	0.00	23	19	85	02	0	0	30.23	0.00	27	21	76	33	0	4	30.28	0.00	26	20	76	16	1	2			
04	30.15	0.00	25	20	82	02	0	3	30.25	0.00	24	19	80	00	1	4	30.27	0.00	26	20	77	19	0	3			
07	30.18	0.00	22	19	87	09	0	0	30.30	0.00	22	18	86	35	1	5	30.25	0.00	27	21	78	06	0	2			
10	30.20	0.00	32	24	72	03	2	7	30.31	0.00	32	19	58	35	3	10	30.24	0.00	38	22	52	18	6	11			
13	30.18	0.00	37	19	49	04	5	13	30.29	0.00	37	19	47	33	2	9	30.14	0.00	44	23	42	17	7	14			
16	30.18	0.00	32	19	57	00	6	13	30.30	0.00	34	20	55	01	0	4	30.06	0.00	41	25	54	20	6	13			
19	30.22	0.00	28	18	68	00	1	9	30.27	0.00	26	19	74	09	0	1	29.97	0.00	40	28	62	19	9	19			
22	30.22	0.00	27	18	71	34	0	4	30.30	0.00	24	19	80	13	0	0	29.87	0.00	38	34	85	18	11	21			
NOV 13									NOV 14									NOV 15									
01	29.82	0.00	38	36	91	19	13	23	29.86	0.00	41	31	67	19	5	10	29.61	0.08	51	49	93	19	7	13			
04	29.80	0.00	40	38	93	20	11	16	29.85	0.00	40	29	63	19	7	12	29.58	0.06	46	43	91	35	1	3			
07	29.89	0.00	41	39	92	30	2	10	29.79	0.00	41	31	68	18	7	15	29.54	0.06	40	38	91	00	4	12			
10	29.94	0.00	41	37	85	28	5	14	29.73	0.00	48	33	54	19	16	26	29.53	0.16	35	33	92	00	2	9			
13	29.92	0.00	46	34	63	31	6	13	29.61	0.00	54	37	53	20	15	33	29.50	0.00	36	34	93	33	1	5			
16	29.92	0.00	45	32	61	19	1	3	29.58	0.00	55	44	65	19	16	31	29.50	0.00	36	34	93	01	0	3			
19	29.94	0.00	36	31	82	19	4	6	29.62	0.00	54	46	74	19	13	28	29.46	0.08	37	35	94	00	2	6			
22	29.90	0.00	38	31	75	18	6	11	29.62	0.00	53	47	83	18	12	17	29.50	0.00	37	36	94	32	3	11			
NOV 16									NOV 17									NOV 18									
01	29.46	0.00	37	35	93	34	3	10	29.69	0.00	27	21	78	25	10	20	30.17	0.00	26	19	74	25	0	3			
04	29.47	0.05	36	34	93	33	5	13	29.77	0.00	26	21	80	26	9	13	30.25	0.00	24	19	81	22	0	2			
07	29.49	0.00	32	31	94	31	8	17	29.84	0.00	26	19	75	23	8	14	30.33	0.00	21	17	86	08	0	0			
10	29.50	0.00	32	30	94	29	11	21	29.90	0.00	28	20	74	24	8	16	30.42	0.00	30	22	72	06	3	4			
13	29.53	0.00	30	27	90	30	9	24	29.92	0.00	31	22	70	23	4	15	30.43	0.00	34	22	63	18	2	4			
16	29.58	0.00	28	24	85	28	6	21	29.97	0.00	32	19	58	28	3	10	30.46	0.00	32	22	66	00	0	3			
19	29.62	0.00	27	22	83	27	8	18	30.04	0.00	30	19	62	23	5	10	30.49	0.00	24	19	81	04	0	0			
22	29.66	0.00	27	22	81	25	6	12	30.11	0.00	28	19	69	24	2	6	30.50	0.00	24	19	82	07	2	5			

**MAXIMUM SHORT DURATION PRECIPITATION**

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.05	0.06	0.08	0.10	0.13	0.16	0.20	0.26	0.30	0.35	0.42	0.49
Ended: Date	06	06	06	06	06	26	26	26	26	26	26	26
Ended: Time	0705	0707	0712	0719	0729	2208	2216	2236	2236	2227	2245	2233

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

## November 2007: Westford

Hour	NOV 19									NOV 20									NOV 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		30.51	0.00	18	15	88	14	0	0	30.22	0.00	30	21	67	16	5	12	30.07	0.00	33	32	94	14	1	2		
04		30.51	0.00	17	14	89	03	0	0	30.08	0.00	32	23	68	17	10	20	30.03	0.00	34	32	94	05	1	3		
07		30.53	0.00	15	12	89	03	0	0	30.00	0.00	30	28	91	16	8	18	30.03	0.00	33	31	94	15	0	0		
10		30.52	0.00	31	23	72	18	2	7	29.97	0.00	33	30	92	18	13	23	30.00	0.06	33	32	94	07	2	4		
13		30.45	0.00	36	22	56	19	7	15	29.95	0.00	34	32	90	19	15	25	29.92	0.13	34	33	94	30	1	3		
16		30.40	0.00	34	23	64	07	0	3	30.00	0.06	35	32	91	19	8	14	29.92	0.00	34	33	94	03	0	0		
19		30.36	0.00	31	20	66	17	4	7	30.06	0.00	35	33	92	16	3	4	29.94	0.00	34	33	94	04	1	3		
22		30.30	0.00	29	20	68	17	5	11	30.06	0.00	34	33	94	14	2	4	29.91	0.04	34	33	95	32	1	3		
NOV 22									NOV 23									NOV 24									
01		29.87	0.10	34	32	95	05	0	3	29.92	0.00	24	21	88	31	6	14	30.32	0.00	17	11	77	30	6	13		
04		29.82	0.04	33	31	95	31	0	2	29.98	0.00	21	18	86	29	8	17	30.38	0.00	17	10	72	28	4	12		
07		29.77	0.00	33	31	95	29	0	2	30.04	0.00	19	15	83	28	9	21	30.43	0.00	16	9	73	30	1	5		
10		29.71	0.00	33	32	95	31	1	3	30.09	0.00	20	17	88	29	6	13	30.44	0.00	20	11	69	26	4	9		
13		29.60	0.04	33	31	95	30	1	4	30.11	0.00	21	17	85	29	6	11	30.37	0.00	24	12	59	20	4	7		
16		29.63	0.00	30	29	95	30	4	12	30.18	0.00	19	14	79	31	4	12	30.31	0.00	23	12	61	16	4	10		
19		29.76	0.00	28	26	93	32	7	19	30.25	0.00	18	12	79	28	6	19	30.27	0.00	24	14	66	18	8	18		
22		29.86	0.00	25	23	91	27	5	11	30.29	0.00	17	13	84	28	3	7	30.23	0.00	26	17	69	18	8	19		
NOV 25									NOV 26									NOV 27									
01		30.16	0.00	26	18	71	18	9	21	30.05	0.00	36	21	53	18	7	15	29.59	0.05	36	34	94	24	0	3		
04		30.14	0.00	27	20	73	18	9	18	30.02	0.00	37	25	62	18	8	16	29.58	0.00	33	32	94	28	3	5		
07		30.16	0.00	29	20	69	18	7	15	30.03	0.00	36	32	85	18	6	13	29.72	0.00	32	31	95	29	5	14		
10		30.17	0.00	31	22	68	19	9	19	30.06	0.00	36	33	86	18	6	12	29.78	0.00	35	32	88	25	4	12		
13		30.15	0.00	33	24	69	18	7	11	30.00	0.00	38	34	85	18	5	10	29.78	0.00	40	33	77	25	13	20		
16		30.13	0.00	36	24	61	19	3	6	29.95	0.00	36	34	91	13	0	0	29.86	0.00	34	30	88	25	10	16		
19		30.12	0.00	35	25	65	19	8	16	29.82	0.09	35	33	93	06	1	2	29.88	0.00	33	29	82	25	3	7		
22		30.10	0.00	34	24	65	18	7	13	29.68	0.19	36	35	94	10	1	4	29.94	0.00	31	28	91	35	0	4		
NOV 28									NOV 29									NOV 30									
01		30.07	0.00	28	26	91	32	1	6	30.10	0.00	29	20	70	19	3	10	29.99	0.00	27	16	63	25	12	24		
04		30.22	0.00	25	22	86	32	4	14	29.99	0.00	33	21	61	17	9	24	30.04	0.00	27	17	65	25	9	17		
07		30.36	0.00	19	14	81	31	4	11	29.88	0.00	36	24	61	18	15	31	30.11	0.00	26	16	66	25	6	11		
10		30.46	0.00	19	13	78	33	2	10	29.82	0.00	37	28	71	18	14	29	30.12	0.00	27	17	65	23	5	13		
13		30.48	0.00	21	13	71	01	1	5	29.76	0.00	38	32	77	20	11	25	30.03	0.00	32	17	53	17	10	16		
16		30.43	0.00	20	12	73	07	0	2	29.75	0.06	36	33	88	20	8	16	29.92	0.00	31	18	58	20	7	18		
19		30.37	0.00	19	14	80	12	0	1	29.87	0.00	32	28	85	24	9	25	29.89	0.00	32	19	59	20	12	27		
22		30.26	0.00	20	16	85	05	0	0	29.93	0.00	30	19	62	23	7	19	29.96	0.00	26	22	84	29	12	27		

### 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

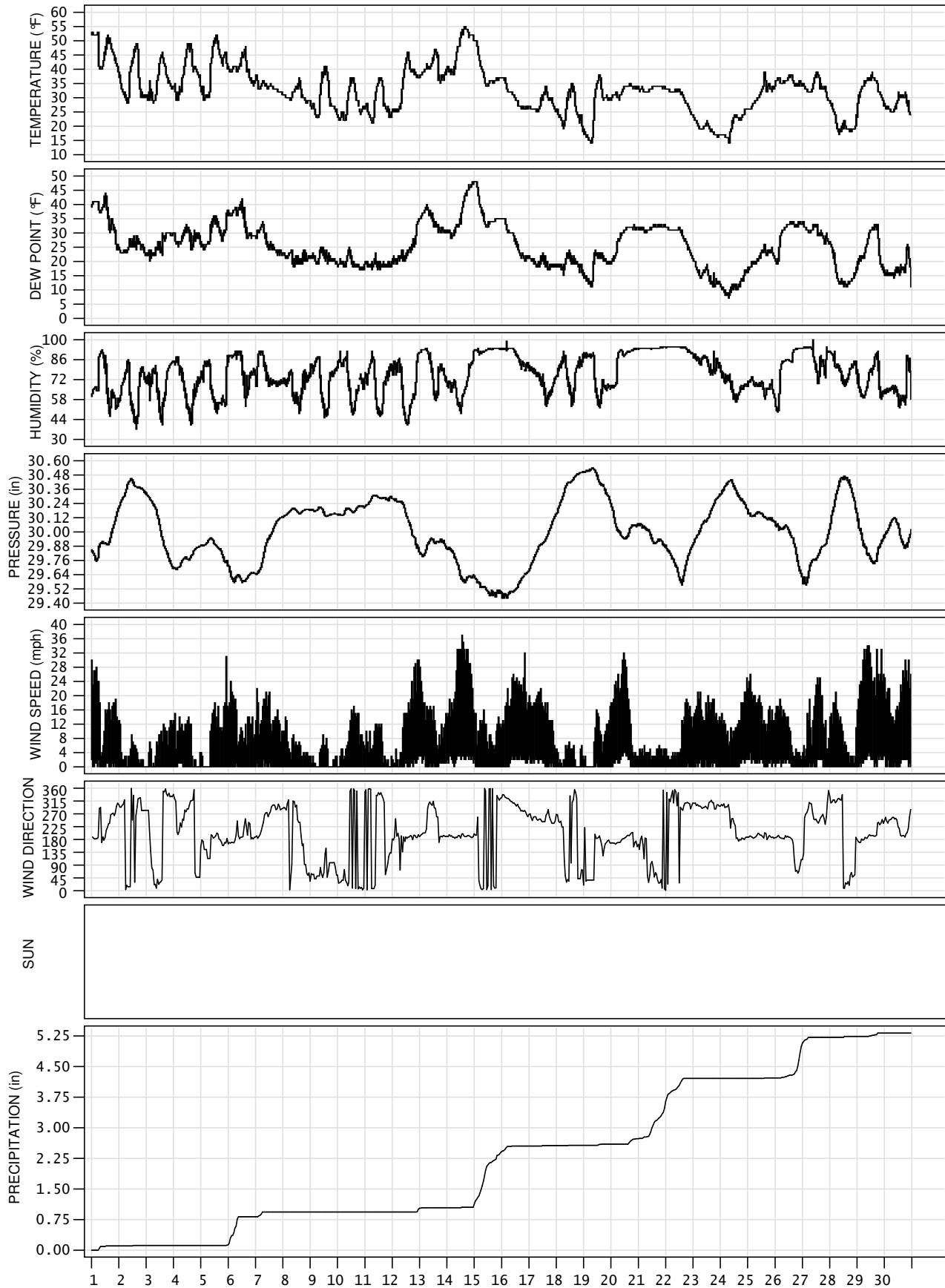
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01		29.993	32	26	78	4.0	22	2.7
04		29.991	31	25	80	3.9	21	2.4
07		30.021	30	25	83	4.2	25	2.5
10		30.037	34	27	75	4.8	23	2.7
13		30.000	37	27	67	5.5	22	3.3
16		29.995	36	26	67	3.5	23	2.1
19		30.008	33	26	75	3.8	22	2.4
22		30.006	32	26	78	3.9	22	2.2

## HOURLY PRECIPITATION (Water Equivalent) November 2007: Westford

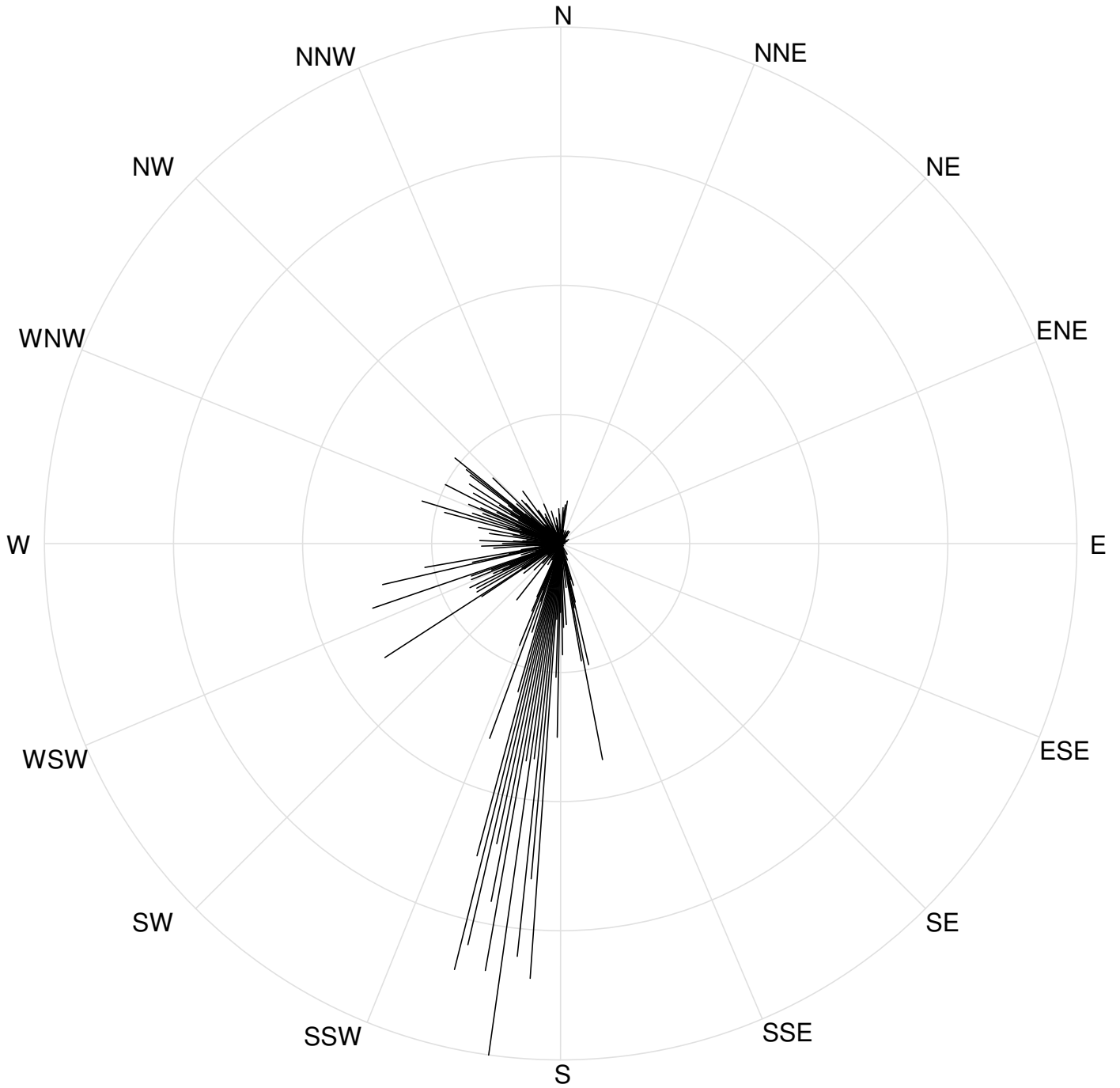
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01							0.04	0.05					0.01											01	
02													0.01											02	
03																								03	
04																								04	
05																					0.01	0.01		05	
06	0.04	0.12	0.06	0.01	0.07	0.11	0.04	0.18	0.06															06	
07			0.02	0.01	0.03	0.05																		07	
08																								08	
09																								09	
10																								10	
11																								11	
12																								12	
13		0.01																				0.01	0.06	0.03	13
14													0.01											14	
15	0.08	0.04	0.05	0.04	0.06	0.09	0.10	0.11	0.14	0.12	0.10	0.04	0.04	0.02		0.02	0.03	0.01	0.02	0.09	0.01	0.02	0.04	0.03	15
16	0.01	0.01	0.03	0.04	0.03				0.01																16
17												0.01													17
18											0.01														18
19													0.01	0.01											19
20																0.01	0.03	0.04	0.02	0.02	0.01		0.01		20
21	0.01			0.01	0.02			0.01	0.01	0.05	0.06	0.10	0.06	0.07	0.04	0.01	0.02	0.04	0.02	0.04	0.04	0.04	0.10	0.17	21
22	0.09	0.07	0.03	0.02	0.03	0.02	0.01	0.01	0.01	0.04	0.03	0.03	0.06	0.05	0.05	0.01									22
23																									23
24																									24
25																0.01									25
26						0.01	0.01		0.01	0.01	0.01	0.01	0.01			0.01	0.02	0.05	0.04	0.12	0.13	0.18	0.15	0.09	26
27	0.03	0.04	0.01	0.01	0.04	0.01																			27
28													0.02												28
29											0.01		0.01	0.01		0.01		0.04							29
30																									30
Sum	0.26	0.29	0.20	0.14	0.28	0.29	0.20	0.36	0.24	0.22	0.22	0.19	0.24	0.16	0.10	0.10	0.11	0.16	0.10	0.26	0.18	0.26	0.36	0.40	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 November 2007: Westford



Wind Rose: November 2007  
**Westford**



Maximum direction of wind: 116.4 miles from 188°.  
3047.7 total miles of wind.