

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

June 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 hvly 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	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	75.6	59.0	67.3	67.2	64	89	0	3	..3.....	0	0.45	0.0	29.97	29.83	29.884	1.5	1.1	249	19	W	13	294	
2	79.2	60.5	69.8	67.7	65	90	0	5	..3.....	0	0.06	0.0	29.87	29.74	29.811	0.5	0.3	223	10	SW	4	178	
3	76.5	57.3	66.9	65.3	61	88	0	2	1.....	0	0.01	0.0	29.78	29.70	29.738	1.5	1.3	139	18	S	8	126	
4	66.8	56.5	61.7	60.7	57	89	3	0	.....	0	0.46	0.0	29.70	29.32	29.499	1.6	1.5	163	20	SSW	9	197
5	74.0	51.0	62.5	62.7	58	86	2	0	..3.....	0	0.15	0.0	29.56	29.28	29.347	5.1	4.3	210	22	S	12	251	
6	56.2	40.1	48.1*	47.4	39	74	17	0	.....	0	0.00	0.0	29.94	29.56	29.791	3.3	3.3	281	20	W	12	275
7	63.1	39.6*	51.3	52.4	44	75	13	0	.....	0	0.00	0.0	30.05	29.91	29.971	0.8	0.5	209	10	WNW	6	184
8	87.2	49.1	68.1	72.0	59	65	0	3	..3.....	0	0.02	0.0	29.91	29.61	29.766	3.6	3.3	192	21	S	17	328	
9	74.6	58.4	66.5	62.6	61	84	0	2	..3.....	0	0.18	0.0	29.93	29.74	29.863	1.4	1.3	305	17	W	13	299	
10	76.0	51.7	63.9	62.5	56	80	1	0	.....	0	T	0.0	30.00	29.91	29.959	0.2	0.1	304	8	WSW	6	273
11	81.8	54.8	68.3	67.4	60	79	0	4	.....	0	0.00	0.0	30.04	29.91	29.980	0.8	0.7	305	15	W	9	296
12	84.3	58.4	71.4	70.8	61	73	0	6	.....	0	0.00	0.0	30.00	29.93	29.962	0.8	0.6	328	14	W	8	281
13	76.5	55.4	66.0	66.0	57	75	0	1	.....	0	0.00	0.0	30.09	29.93	30.002	1.1	0.5	342	13	N	7	280
14	75.8	49.6	62.7	62.6	53	73	2	0	.....	0	0.00	0.0	30.14	29.97	30.065	1.2	0.4	237	11	S	10	10
15	78.6	48.9	63.8	64.3	55	75	1	0	.....	0	0.00	0.0	30.05	29.89	29.978	0.7	0.4	267	12	W	8	274
16	82.8	54.4	68.6	68.6	56	68	0	4	..3.....	0	0.04	0.0	29.93	29.76	29.852	1.6	1.4	231	11	S	8	222	
17	76.7	55.0	65.8	65.7	56	78	0	1	..3.....	0	0.01	0.0	29.90	29.73	29.785	2.5	1.7	209	13	SW	8	283	
18	75.4	48.6	62.0	62.2	51	68	3	0	.....	0	0.00	0.0	30.04	29.88	29.964	0.7	0.5	297	11	W	8	286
19	87.4	55.7	71.6	70.3	61	75	0	7	..3.....	0	0.42	0.0	29.98	29.68	29.836	2.3	2.2	183	19	S	10	197	
20	70.9	59.2	65.1	66.0	59	80	0	0	.....	0	0.15	0.0	29.83	29.67	29.757	3.3	2.7	271	20	S	13	274
21	70.1	52.8	61.4	60.6	54	79	3	0	..3.....	0	0.15	0.0	29.84	29.67	29.768	0.8	0.5	306	12	WNW	0	0	
22	64.7	53.8	59.2	57.5	50	79	5	0	.....	0	0.02	0.0	29.75	29.66	29.692	3.1	2.7	310	24	WNW	11	293
23	66.0	49.2	57.6	56.6	45	66	7	0	.....	0	0.00	0.0	29.86	29.73	29.791	4.8	4.7	285	18	WNW	13	279
24	72.3	47.3	59.8	59.5	48	67	5	0	.....	0	0.00	0.0	30.00	29.85	29.933	2.2	2.0	268	11	W	9	267
25	82.6	58.3	70.4	69.7	60	74	0	6	.....	0	0.10	0.0	30.08	29.98	30.024	1.0	0.9	201	13	ESE	9	149
26	90.3	64.7	77.5	77.1	63	63	0	13	.....	0	0.00	0.0	30.07	29.95	30.009	2.5	2.1	231	14	W	9	278
27	90.5*	69.1	79.8*	79.4	67	67	0	15	.....	0	0.00	0.0	29.95	29.69	29.829	2.6	2.4	207	16	S	7	265
28	79.4	55.4	67.4	69.1	63	81	0	2	..3.....	0	0.37	0.0	29.95	29.67	29.759	3.2	2.5	267	21	W	12	291	
29	70.4	43.5	57.0	58.8	47	66	8	0	.....	0	0.00	0.0	30.02	29.88	29.957	1.1	0.9	302	16	W	8	279
30	67.4	51.9	59.7	58.8	49	73	5	0	.....	0	0.05	0.0	29.98	29.88	29.924	2.2	2.2	283	17	W	14	277
Sum	Sum	-----	-----	---	----	Ttl	Ttl	Number of Days		For the month:													---
2273	1609					75	74			2.64	0.0	30.14	29.28	29.850	1.9	1.1	249	24	WNW	17	328		
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl		Date	Date	-----	----	----	----	Date	Date	Avg			
75.8	53.6	64.7	64.4	56	75.9	----	----	≥.01 inch	16	19.95	108.5	14	5	-----	----	----	----	22	8				
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			7959	106	Thunder	10	Precipitation			Snow, Ice Plts										
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	0.56	19-20	0.0	-	0						-					
2	0	0	0	----	----	Clear	8	Partly Cloudy			17	Cloudy	5										

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 June 2007: Westford

Hour	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Wind			Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Wind			Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Wind				
						Humidity	Direction	Speed						Humidity	Direction	Speed						Humidity	Direction	Speed		
JUN 01									JUN 02									JUN 03								
01		29.96	0.12	61	61	100	24	2	5	29.85	0.00	62	62	100	17	0	0	29.76	0.00	61	60	99	01	0	0	
04		29.90	0.00	62	62	100	20	4	10	29.86	0.00	61	61	100	00	0	1	29.75	0.00	58	58	100	01	0	0	
07		29.92	0.00	63	63	100	19	2	5	29.85	0.00	62	62	100	17	0	0	29.76	0.00	62	62	100	01	0	2	
10		29.90	0.00	69	64	82	25	2	5	29.85	0.00	69	65	88	20	2	6	29.77	0.00	66	66	100	23	1	3	
13		29.87	0.00	74	65	73	29	6	8	29.82	0.00	74	66	76	26	0	5	29.73	0.00	76	67	74	08	1	6	
16		29.86	0.00	75	66	72	26	1	7	29.76	0.00	76	66	70	03	0	1	29.70	0.00	72	63	74	12	5	14	
19		29.83	0.00	73	65	77	29	0	3	29.75	0.00	73	68	86	28	2	6	29.71	0.00	66	59	80	16	1	10	
22		29.85	0.00	63	63	98	35	0	0	29.78	0.00	65	64	97	19	0	2	29.72	0.00	62	56	81	16	5	10	
JUN 04									JUN 05									JUN 06								
01		29.69	0.00	59	54	84	14	0	6	29.30	0.00	58	58	100	20	3	12	29.58	0.00	50	43	79	28	5	13	
04		29.65	0.00	58	55	91	08	0	5	29.31	0.00	57	57	100	19	6	12	29.68	0.00	43	37	78	28	8	19	
07		29.60	0.05	57	56	96	11	0	3	29.34	0.00	60	60	99	19	7	12	29.75	0.00	43	37	80	27	3	10	
10		29.54	0.00	62	57	84	18	3	12	29.34	0.00	66	63	89	18	5	12	29.83	0.00	43	37	78	29	3	10	
13		29.47	0.00	67	58	75	13	4	20	29.30	0.00	73	64	73	18	4	12	29.82	0.00	50	39	67	29	4	11	
16		29.41	0.00	65	58	80	15	0	7	29.28	0.00	73	63	70	16	3	11	29.84	0.00	54	38	56	31	3	11	
19		29.36	0.04	60	59	96	35	1	6	29.35	1.14	65	62	92	23	7	14	29.87	0.00	52	40	64	28	0	6	
22		29.34	0.00	58	58	99	03	0	0	29.51	0.00	53	47	79	27	5	12	29.92	0.00	46	41	83	22	0	1	
JUN 07									JUN 08									JUN 09								
01		29.94	0.00	44	39	82	24	0	1	29.88	0.00	57	45	65	18	1	6	29.77	0.00	64	62	95	04	0	6	
04		29.94	0.00	43	40	90	13	1	5	29.88	0.00	60	51	72	19	2	7	29.76	0.00	61	61	100	03	0	0	
07		30.00	0.00	45	42	90	16	1	6	29.85	0.00	63	54	73	19	6	10	29.85	0.00	62	62	99	28	2	10	
10		30.03	0.00	58	46	65	20	2	6	29.81	0.00	71	60	68	18	6	20	29.90	0.00	67	64	89	27	2	6	
13		30.03	0.00	63	45	53	30	3	5	29.75	0.00	81	66	62	20	5	11	29.91	0.00	72	63	75	02	1	8	
16		29.98	0.00	60	47	63	29	0	0	29.67	0.00	86	67	53	17	5	13	29.90	0.00	0	0	0	00	0	0	
19		29.94	0.00	56	50	81	29	0	0	29.64	0.00	82	65	57	16	3	7	29.91	0.00	74	60	61	34	0	0	
22		29.93	0.00	53	47	80	20	0	0	29.68	0.00	75	65	71	18	1	5	29.93	0.00	63	54	71	32	0	0	
JUN 10									JUN 11									JUN 12								
01		29.91	0.00	58	54	88	00	0	0	29.99	0.00	56	55	99	14	0	0	29.96	0.00	62	59	90	00	0	0	
04		29.94	0.00	53	49	88	00	0	0	29.99	0.00	55	55	99	14	0	0	29.95	0.00	61	56	85	00	0	0	
07		29.99	0.00	52	48	88	00	0	0	30.02	0.00	55	55	99	14	0	0	29.99	0.00	61	59	92	09	0	0	
10		29.96	0.00	73	59	61	30	0	5	30.03	0.00	72	64	76	01	1	3	29.99	0.00	77	63	62	04	0	5	
13		29.94	0.00	73	57	58	00	0	0	29.99	0.00	77	68	74	28	5	12	29.97	0.00	82	68	63	34	1	10	
16		29.94	0.00	73	62	68	34	2	2	29.93	0.00	81	61	50	34	4	10	29.93	0.00	83	62	49	35	3	8	
19		29.95	0.00	67	62	86	17	0	0	29.92	0.00	78	57	49	35	0	3	29.95	0.00	75	62	63	04	0	0	
22		29.97	0.00	60	58	95	14	0	0	29.96	0.00	66	57	74	00	0	0	29.96	0.00	65	60	84	19	1	2	
JUN 13									JUN 14									JUN 15								
01		29.95	0.00	59	56	90	18	0	0	30.11	0.00	53	51	93	19	1	6	29.99	0.00	54	51	89	00	0	0	
04		29.96	0.00	62	62	98	26	0	0	30.11	0.00	50	48	92	18	3	6	30.00	0.00	49	49	97	00	0	0	
07		30.01	0.00	60	60	97	29	0	1	30.12	0.00	52	49	89	10	0	0	30.04	0.00	54	54	99	00	0	0	
10		30.03	0.00	68	61	78	29	2	7	30.10	0.00	67	55	65	30	1	3	30.05	0.00	72	61	70	23	1	3	
13		30.00	0.00	74	57	55	03	1	7	30.05	0.00	73	56	55	06	0	10	29.97	0.00	76	60	57	29	0	2	
16		30.00	0.00	75	55	49	02	3	7	30.01	0.00	75	54	49	01	0	5	29.93	0.00	78	59	53	26	4	6	
19		30.01	0.00	72	51	48	06	0	3	29.99	0.00	72	53	51	35	0	2	29.90	0.00	76	59	56	29	0	1	
22		30.05	0.00	56	50	80	18	1	1	30.01	0.00	56	52	87	00	0	0	29.89	0.00	60	54	80	29	0	0	
JUN 16									JUN 17									JUN 18								
01		29.91	0.00	55	53	93	29	0	0	29.79	0.00	63	60	89	15	2	8	29.90	0.00	51	45	80	01	0	0	
04		29.90	0.00	56	54	92	20	1	3	29.75	0.00	61	58	90	20	4	8	29.91	0.00	52	46	80	01	0	0	
07		29.90	0.00	61	55	80	15	5	7	29.77	0.00	63	59	86	20	2	7	29.98	0.00	49	43	80	01	0	0	
10		29.88	0.00	73	61	66	18	1	8	29.78	0.00	67	60	78	20	3	7	30.04	0.00	68	62	80	07	2	2	
13		29.88	0.00	77	63	62	27	3	3	29.76	0.00	71	62	74	20	5	8	30.00	0.00	73	55	54	29	0	8	
16		29.79	0.00	82	58	45	29	4	10	29.74	0.00	76	-32	0	25	4	6	29.98	0.00	73	55	53	28	2	6	
19		29.76	0.00	79	57	47	27	1	5	29.79	0.00	68	63	83	02	1	5	29.95	0.00	72	51	48	09	0	0	
22		29.77	0.00	69	-36	0	17	0	1	29.87	0.00	59	53	80	05	0	0	29.97	0.00	60	52	75	09	0	0	

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.23	0.27	0.27	0.32	0.33	0.38	0.38	0.41	0.42	0.42	0.42	0.44
Ended: Date	19	19	19	19	19	19	01	01	01	01	01	01
Ended: Time	1750	1800	1800	1808	1813	1823	0148	0156	0214	0214	0214	0343

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

June 2007: Westford

Hour	JUN 19									JUN 20									JUN 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		29.98	0.00	61	55	81	00	0	0		29.71	0.00	69	66	92	22	5	13		29.84	0.00	59	54	83	29	0	2
04		29.94	0.00	58	54	85	00	0	0		29.67	0.01	66	66	98	22	1	3		29.83	0.00	56	52	87	27	0	2
07		29.94	0.00	57	55	92	00	0	0		29.74	0.00	63	62	97	22	1	5		29.84	0.00	57	53	89	24	1	5
10		29.89	0.00	75	59	58	00	0	0		29.75	0.00	65	63	92	29	6	13		29.81	0.00	65	54	67	06	0	3
13		29.82	0.00	83	66	56	20	5	10		29.78	0.00	68	54	59	29	5	8		29.76	0.00	65	52	63	27	0	2
16		29.69	0.00	87	67	52	20	4	11		29.77	0.00	70	56	60	27	6	11		29.71	0.00	66	52	61	00	0	0
19		29.74	0.00	69	68	95	00	0	0		29.79	0.00	66	54	65	27	3	8		29.68	0.00	64	56	73	29	0	2
22		29.73	0.00	69	67	93	18	3	6		29.83	0.00	62	53	73	29	2	4		29.69	0.00	56	54	95	00	0	0
JUN 22									JUN 23									JUN 24									
01		29.66	0.00	55	53	93	00	0	0		29.74	0.00	55	44	65	31	4	13		29.86	0.00	53	44	72	28	6	6
04		29.67	0.00	54	52	92	29	2	6		29.74	0.00	52	42	69	30	4	12		29.90	0.00	48	41	76	19	1	5
07		29.68	0.00	54	52	92	29	3	8		29.80	0.00	49	42	76	28	5	10		29.94	0.00	50	43	76	20	2	5
10		29.69	0.00	56	55	94	00	0	0		29.80	0.00	56	47	71	27	7	10		29.97	0.00	62	48	61	21	0	0
13		29.68	0.00	62	54	77	29	3	6		29.80	0.00	59	50	71	26	3	3		29.94	0.00	68	51	54	29	6	6
16		29.69	0.00	63	50	62	29	10	16		29.79	0.00	64	43	47	27	13	13		29.95	0.00	69	48	46	28	5	5
19		29.71	0.00	60	47	61	29	7	18		29.82	0.00	62	45	53	30	5	5		29.96	0.00	66	55	69	29	0	0
22		29.75	0.00	56	45	65	29	5	12		29.85	0.00	55	44	65	29	3	6		29.99	0.00	58	55	88	29	0	0
JUN 25									JUN 26									JUN 27									
01		30.00	0.00	60	53	77	18	0	3		30.03	0.00	68	58	69	18	2	6		29.95	0.00	75	61	63	20	2	7
04		30.03	0.00	58	57	94	18	0	0		30.04	0.00	67	57	71	19	3	7		29.93	0.00	71	61	72	19	3	10
07		30.07	0.00	60	58	94	22	0	0		30.05	0.00	68	60	74	18	3	7		29.91	0.00	72	65	79	20	2	7
10		30.06	0.00	71	63	77	17	2	8		30.05	0.00	79	65	62	18	4	12		29.89	0.00	83	70	66	21	3	8
13		30.03	0.00	78	63	61	14	2	7		30.02	0.00	85	69	58	28	4	10		29.84	0.00	87	70	57	25	4	8
16		29.98	0.00	81	65	59	26	0	5		29.97	0.00	89	68	50	24	3	8		29.73	0.00	90	71	54	21	1	12
19		30.00	0.00	81	63	55	26	1	3		29.95	0.00	87	68	53	00	0	0		29.69	0.00	83	70	65	21	3	13
22		30.02	0.00	71	58	63	16	1	2		29.96	0.00	77	60	56	21	2	7		29.72	0.00	77	67	70	18	3	6
JUN 28									JUN 29									JUN 30									
01		29.69	0.00	72	67	83	18	6	12		29.94	0.00	53	45	74	35	1	6		29.92	0.00	55	51	89	19	0	2
04		29.67	0.00	69	68	95	23	0	2		29.96	0.00	48	44	88	35	0	0		29.90	0.00	54	51	92	29	3	3
07		29.69	0.00	68	68	99	18	0	3		30.01	0.00	47	46	97	35	0	0		29.92	0.00	53	52	95	28	0	0
10		29.71	0.00	77	71	81	23	2	7		30.01	0.00	60	47	61	00	0	4		29.97	0.00	59	50	72	30	10	12
13		29.74	0.00	77	68	74	28	8	19		29.99	0.00	66	46	50	26	6	7		29.95	0.00	65	46	50	26	6	13
16		29.78	0.00	72	64	77	29	6	16		29.93	0.00	69	48	47	27	0	3		29.91	0.00	66	46	49	28	3	6
19		29.84	0.00	63	57	79	30	2	8		29.89	0.00	69	48	47	25	0	3		29.88	0.00	66	48	53	26	0	4
22		29.91	0.00	60	51	72	32	0	5		29.90	0.00	51	48	89	27	0	2		29.92	0.00	56	47	73	01	0	0

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		29.853	59	54	85	1.4	23	0.9
04		29.850	57	53	89	1.5	23	1.1
07		29.878	57	54	90	1.5	21	1.1
10		29.881	67	59	75	2.4	24	1.4
13		29.854	72	59	64	3.2	27	2.1
16		29.818	71	53	54	3.2	28	2.0
19		29.818	70	57	66	1.2	27	0.8
22		29.846	61	51	77	1.1	23	0.6

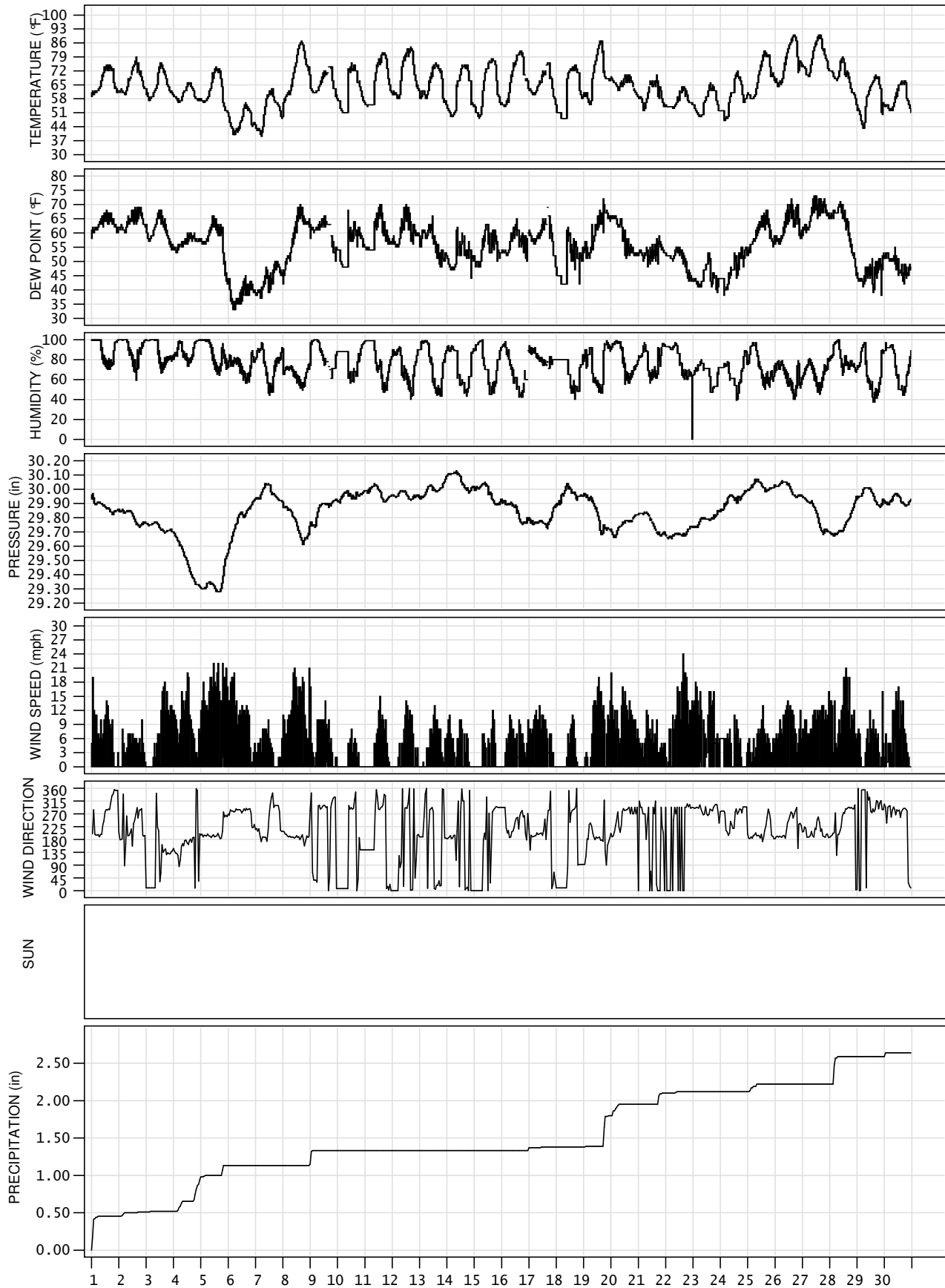
HOURLY PRECIPITATION (Water Equivalent) June 2007: Westford

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	0.16	0.25	0.01	0.02		0.01																		01	
02			0.01	0.02	0.02												0.01							02	
03				0.01																				03	
04				0.01	0.04	0.02	0.04	0.02																04	
05			0.01	0.01														0.02	0.07	0.07	0.05	0.02	0.06	0.04	05
06																								06	
07																								07	
08																								08	
09	0.17	0.01																					0.02	09	
10																								10	
11																								11	
12																								12	
13																								13	
14																								14	
15																								15	
16																								16	
17											0.01												0.04	17	
18																								18	
19		0.01																						19	
20		0.06		0.03	0.02	0.02	0.02											0.25	0.15			0.01		20	
21																								21	
22																								22	
23									0.01	0.01											0.01			23	
24																								24	
25		0.01	0.04		0.02			0.03																25	
26																								26	
27																								27	
28				0.25	0.10		0.02																	28	
29																								29	
30	0.05																							30	
Sum	0.38	0.34	0.07	0.35	0.20	0.05	0.08	0.05	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.38	0.32	0.13	0.06	0.03	0.06	0.10	Sum	

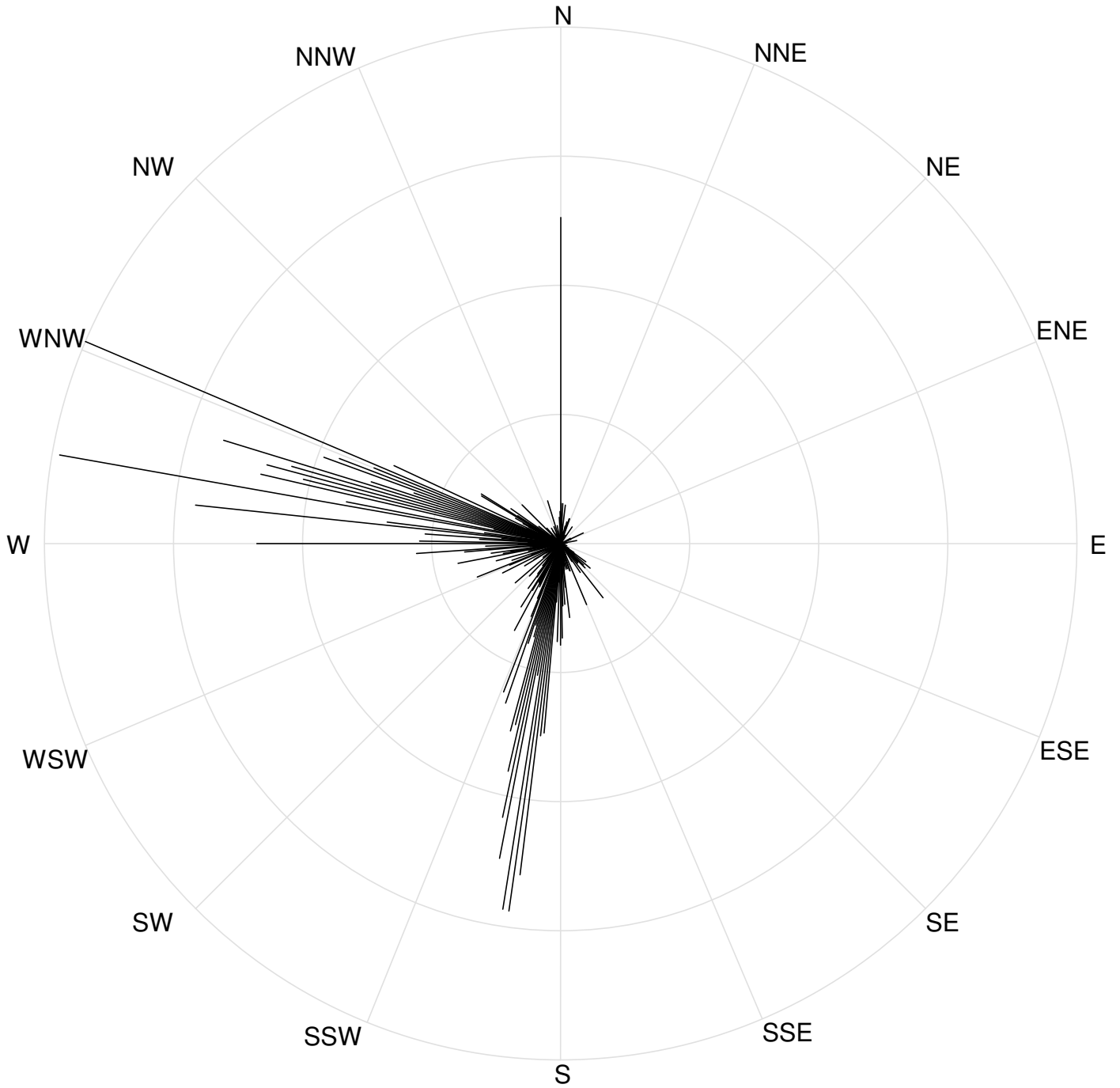
During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA

June 2007: Westford



Wind Rose: June 2007
Westford



Maximum direction of wind: 50.6 miles from 293°.
1385.5 total miles of wind.