

# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary

### September 2011

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	Res	Res	Peak			Minute	
																				Speed	Speed		Dir	Speed
1	2	3	4A	4B	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	78.7	52.5	65.6	65.1	59	82	0	1	.....	0	0.00	0.0	30.18	30.04	30.109	0.7	0.6	217	14	S	7	231	162	
2	79.5	60.4	70.0	69.5	61	74	0	5	.....	0	0.00	0.0	30.05	29.85	29.980	2.4	2.3	214	20	SW	10	213	222	
3	84.8*	66.8	75.8*	72.5	66	80	0	11	.....	0	0.00	0.0	29.86	29.80	29.819	2.8	2.8	219	19	S	10	208	158	
4	83.3	67.8	75.6	74.3	71	89	0	11	.3.....	0	0.05	0.0	29.83	29.66	29.728	2.7	2.7	216	22	S	13	211	153	
5	68.6	59.9	64.3	65.4	64	95	0	0	.....	0	1.11	0.0	29.86	29.66	29.740	1.1	0.8	239	20	SSW	7	239	32	
6	67.0	53.6	60.3	58.9	56	90	4	0	.....	0	0.44	0.0	30.20	29.85	30.043	0.5	0.4	4	12	N	6	304	118	
7	61.8	53.8	57.8	57.7	56	95	7	0	.....	0	0.36	0.0	30.23	30.06	30.164	0.2	0.1	205	11	WSW	5	202	43	
8	71.9	56.7	64.3	62.1	59	91	0	0	.....	0	0.08	0.0	30.11	29.95	30.040	0.3	0.2	341	9	NW	6	291	118	
9	78.6	53.1	65.8	64.6	58	81	0	1	.2.....	0	0.00	0.0	29.96	29.76	29.846	0.6	0.6	311	11	WNW	7	297	202	
10	66.8	43.0	54.9	55.9	48	76	10	0	.....	0	0.00	0.0	30.06	29.83	29.965	0.5	0.4	350	12	WNW	6	301	217	
11	73.7	40.6	57.1	57.2	51	82	7	0	.....	0	0.00	0.0	30.07	29.89	30.000	1.7	1.7	216	15	SW	8	218	206	
12	79.7	59.2	69.4	66.1	61	84	0	5	.3.....	0	0.04	0.0	29.92	29.84	29.883	1.9	1.8	221	13	SW	7	97	186	
13	78.3	58.4	68.4	68.4	62	81	0	3	.3.....	0	0.22	0.0	29.87	29.64	29.743	3.6	3.5	215	25	S	13	222	174	
14	72.1	51.8	61.9	61.2	56	83	3	0	.....	0	0.05	0.0	29.92	29.74	29.850	0.7	0.7	299	14	NW	8	309	163	
15	56.1	43.6	49.8	50.6	49	94	15	0	.....	0	0.55	0.0	30.03	29.87	29.935	0.7	0.7	311	16	NNW	8	302	25	
16	54.9	38.6	46.8*	45.9	39	77	18	0	.....	0	0.00	0.0	30.34	30.03	30.201	2.7	2.7	307	18	NW	11	272	127	
17	63.3	35.7*	49.5	48.0	40	78	15	0	.....	0	0.00	0.0	30.48	30.34	30.420	0.3	0.2	307	9	SE	5	311	195	
18	67.8	37.9	52.9	50.9	43	77	12	0	.....	0	0.00	0.0	30.50	30.35	30.429	0.2	0.1	258	9	SW	5	231	205	
19	67.5	37.7	52.6	52.5	44	76	12	0	.....	0	0.00	0.0	30.36	29.99	30.199	0.8	0.8	221	15	S	8	228	194	
20	65.3	51.3	58.3	56.3	53	88	7	0	.....	0	0.46	0.0	30.11	29.93	29.990	3.1	3.1	213	19	SSW	11	207	65	
21	73.1	54.5	63.8	61.6	56	84	1	0	.2.....	0	0.00	0.0	30.20	30.08	30.134	1.1	1.1	214	16	WSW	7	210	171	
22	73.9	61.6	67.8	66.5	63	88	0	3	.....	0	0.10	0.0	30.08	29.99	30.037	1.6	1.6	210	17	S	8	218	86	
23	75.3	51.8	63.6	64.5	60	87	1	0	.....	0	0.06	0.0	30.13	29.96	30.062	0.1	0.0	257	7	W	4	219	140	
24	71.2	64.0	67.6	66.8	66	96	0	3	.....	0	0.40	0.0	30.07	29.92	29.977	0.1	0.1	341	5	N	4	297	63	
25	77.2	54.4	65.8	65.6	60	85	0	1	.....	0	0.00	0.0	30.13	30.01	30.063	0.2	0.2	333	9	WNW	5	297	157	
26	77.9	51.2	64.6	61.5	54	81	0	0	.....	0	0.00	0.0	30.03	29.93	29.982	0.2	0.2	327	9	W	6	296	179	
27	79.8	47.1	63.5	62.2	56	82	1	0	.....	0	0.00	0.0	29.98	29.91	29.956	0.1	0.0	343	7	W	4	279	170	
28	72.7	61.9	67.3	66.3	58	75	0	3	.....	0	0.00	0.0	29.99	29.88	29.937	1.4	1.3	186	16	S	8	201	91	
29	65.6	57.1	61.3	61.8	58	87	3	0	.....	0	1.27	0.0	29.88	29.44	29.635	1.4	1.2	207	20	SW	8	243	38	
30	68.9	53.3	61.1	58.9	54	84	4	0	.....	0	0.01	0.0	29.67	29.49	29.573	2.5	2.4	211	22	SSW	11	205	121	
<b>Sum</b>	<b>Sum</b>	-----	-----	---	----	<b>Ttl</b>	<b>Ttl</b>	<b>Number of Days</b>		<b>For the month:</b>													----	
2155	1579					120	47			5.20	0.0	30.50	29.44	29.981	1.2	0.9	228	25	S	13	211			
<b>Avg</b>	<b>Avg</b>	<b>Avg</b>	<b>Mean</b>	<b>Avg</b>	<b>Avg</b>	----	----	<b>Precip</b>		<b>Season Ttl</b>		<b>Date</b>	<b>Date</b>	-----	----	----	---	<b>Date</b>	<b>Date</b>	<b>Avg</b>				
71.8	52.6	62.2	61.3	56	84.1	----	----	≥.01 inch	15	45.40	0.0	18	29	-----	----	----	---	13	4	139				
<b>Number of Days</b>						<b>Season to Date</b>		<b>Snow, Ice ≥1.0 inch</b>		<b>0</b>		<b>Greatest in 24 Hours and Dates</b>					<b>Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date</b>							
<b>Max Temperature</b>			<b>Min Temperature</b>			139	403	<b>Thunder</b>		<b>3</b>		<b>Precipitation</b>		<b>Snow, Ice Plts</b>										
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	<b>Heavy Fog</b>		<b>2</b>		1.43	5- 6	0.0		-			0							
0	0	0	0	----	----	<b>Clear</b>		<b>6</b>		<b>Partly Cloudy</b>		11		<b>Cloudy</b>			13							

**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/m^2 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

## September 2011: 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
SEP 01									SEP 02									SEP 03									
01	0	30.18	0.00	54	52	94	04	0	0	0	30.05	0.00	61	58	90	19	0	1	0	29.81	0.00	67	61	80	21	4	17
04	0	30.16	0.00	54	53	95	04	0	0	0	30.03	0.00	65	60	85	20	1	5	0	29.80	0.00	68	62	80	20	4	15
07	16	30.15	0.00	55	54	96	06	0	0	30	30.05	0.00	62	58	86	22	0	4	30	29.82	0.00	67	61	81	20	4	13
10	649	30.15	0.00	72	60	66	22	2	5	503	30.04	0.00	71	60	70	18	5	15	267	29.83	0.00	70	64	81	21	7	12
13	840	30.10	0.00	79	64	61	25	3	10	708	29.99	0.00	76	63	64	22	5	17	422	29.82	0.00	77	69	76	22	2	7
16	610	30.06	0.00	77	64	64	22	3	10	489	29.94	0.00	78	63	59	22	4	10	446	29.82	0.00	84	72	68	30	2	6
19	11	30.05	0.00	71	64	80	19	0	5	14	29.90	0.00	72	60	67	21	4	11	14	29.82	0.00	76	70	83	27	0	0
22	0	30.06	0.00	67	61	81	20	0	5	0	29.88	0.00	69	60	74	21	4	10	0	29.82	0.00	70	68	94	27	0	0
SEP 04									SEP 05									SEP 06									
01	0	29.82	0.00	69	68	96	24	0	4	0	29.69	0.00	68	66	92	20	1	4	0	29.88	0.00	60	59	96	32	2	4
04	0	29.77	0.00	70	68	94	21	0	0	0	29.68	0.00	68	66	94	25	0	5	0	29.90	0.18	58	57	97	02	0	1
07	33	29.77	0.00	71	70	95	20	1	7	14	29.68	0.00	67	65	94	23	6	10	21	29.94	0.00	54	53	96	10	0	1
10	469	29.72	0.00	79	74	83	19	6	13	58	29.72	0.00	67	66	96	22	1	10	160	30.03	0.00	57	55	94	02	1	7
13	701	29.71	0.00	82	74	79	20	4	13	35	29.75	2.33	65	63	93	31	5	9	148	30.08	0.00	62	57	83	03	0	5
16	132	29.68	0.00	78	72	80	21	5	14	53	29.75	0.00	64	63	96	31	0	3	315	30.11	0.00	66	58	76	02	1	8
19	12	29.67	0.00	77	72	84	21	2	11	5	29.80	0.00	63	62	96	02	0	5	18	30.15	0.00	59	55	87	02	0	1
22	0	29.70	0.00	70	67	91	22	3	10	0	29.83	0.00	61	60	96	32	0	3	0	30.18	0.00	55	53	93	02	0	1
SEP 07									SEP 08									SEP 09									
01	0	30.18	0.00	54	53	95	02	0	2	0	30.09	0.00	58	56	96	21	1	4	0	29.94	0.00	61	60	96	31	0	0
04	0	30.16	0.00	54	53	96	02	0	0	0	30.08	0.00	57	57	97	07	0	4	0	29.92	0.00	60	59	97	31	0	0
07	7	30.22	0.00	56	55	96	03	0	0	26	30.09	0.00	57	56	96	08	0	0	30	29.88	0.00	54	53	96	31	0	0
10	125	30.20	0.00	59	58	96	20	0	0	141	30.09	0.00	61	60	96	08	0	0	624	29.87	0.00	63	62	96	31	0	9
13	149	30.18	0.00	61	59	93	18	0	0	313	30.04	0.00	71	63	76	04	1	6	991	29.82	0.00	74	63	69	02	0	6
16	44	30.12	0.07	59	57	93	17	0	7	292	30.01	0.00	68	63	86	30	0	5	482	29.76	0.00	78	60	54	32	0	6
19	0	30.14	0.00	59	57	95	21	0	3	12	29.98	0.00	66	62	88	31	0	0	11	29.77	0.00	68	59	74	31	0	0
22	0	30.11	0.00	58	57	96	18	0	0	0	29.96	0.00	59	58	95	31	0	0	0	29.83	0.00	63	57	82	31	4	7
SEP 10									SEP 11									SEP 12									
01	0	29.85	0.00	59	55	86	03	0	6	0	30.07	0.00	43	41	94	03	0	0	0	29.90	0.00	60	57	91	22	2	7
04	0	29.88	0.00	53	48	83	03	2	7	0	30.06	0.00	41	40	95	03	0	0	0	29.90	0.00	60	58	93	22	3	10
07	14	29.94	0.00	46	43	91	03	0	0	16	30.07	0.00	44	43	96	03	0	1	32	29.90	0.00	60	59	95	21	3	9
10	545	29.98	0.00	62	51	68	07	1	6	496	30.06	0.00	62	52	72	21	3	13	422	29.91	0.00	69	61	75	22	4	9
13	791	29.99	0.00	65	51	62	33	1	9	766	30.01	0.00	69	57	66	24	7	13	682	29.89	0.00	75	64	68	23	2	9
16	489	29.99	0.00	66	49	55	04	0	4	471	29.95	0.00	74	57	57	24	1	11	432	29.84	0.00	79	65	61	24	0	8
19	9	30.01	0.00	56	47	71	03	0	4	12	29.92	0.00	65	58	78	22	0	9	12	29.86	0.00	65	61	88	04	0	4
22	0	30.06	0.00	46	44	92	03	0	0	0	29.90	0.00	61	56	86	21	2	9	0	29.88	0.00	62	61	94	20	0	4
SEP 13									SEP 14									SEP 15									
01	0	29.87	0.00	60	58	94	20	0	3	0	29.75	0.00	61	59	93	32	0	5	0	29.91	0.00	54	53	96	30	0	0
04	0	29.83	0.00	58	56	93	21	1	3	0	29.77	0.00	60	59	95	20	1	5	0	29.88	0.00	55	54	96	30	0	3
07	30	29.79	0.00	62	60	93	23	1	7	11	29.83	0.00	57	56	96	31	0	6	0	29.92	0.14	52	50	95	31	2	8
10	454	29.78	0.00	71	64	79	22	2	13	132	29.87	0.00	60	56	87	26	0	2	56	29.93	0.05	50	49	95	31	1	5
13	694	29.72	0.00	76	64	65	21	9	16	896	29.89	0.00	69	57	66	30	4	9	49	29.93	0.08	50	49	95	31	2	14
16	415	29.64	0.00	78	65	65	20	5	25	434	29.88	0.00	71	56	59	30	4	6	49	29.93	0.00	48	47	95	31	0	4
19	5	29.65	0.00	73	64	73	21	4	12	5	29.87	0.00	61	55	80	30	0	1	0	29.96	0.00	49	47	94	21	0	4
22	0	29.68	0.00	68	64	87	24	0	3	0	29.92	0.00	52	50	93	30	0	0	0	30.02	0.00	46	41	82	31	3	8
SEP 16									SEP 17									SEP 18									
01	0	30.04	0.00	43	39	86	34	0	9	0	30.36	0.00	39	36	91	31	0	1	0	30.46	0.00	41	39	93	30	0	0
04	0	30.09	0.00	44	40	87	30	2	10	0	30.38	0.00	38	36	93	31	0	1	0	30.46	0.00	39	37	94	30	0	0
07	5	30.15	0.00	44	40	86	29	4	9	14	30.42	0.00	37	35	94	20	0	1	12	30.48	0.00	38	37	95	30	0	0
10	158	30.21	0.00	47	40	78	31	5	13	485	30.47	0.00	55	43	63	20	0	4	475	30.50	0.00	57	45	65	02	0	3
13	334	30.24	0.00	50	39	66	30	5	17	722	30.44	0.00	60	41	50	06	0	1	726	30.45	0.00	65	44	48	22	1	6
16	469	30.23	0.00	55	41	60	31	4	11	441	30.41	0.00	63	42	47	31	3	7	520	30.38	0.00	67	46	48	23	1	5
19	0	30.27	0.00	48	37	64	31	3	10	0	30.42	0.00	49	44	83	30	0	0	0	30.36	0.00	54	46	76	31	0	1
22	0	30.32	0.00	39	36	88	31	0	0	0	30.44	0.00	45	42	91	30	0	0	0	30.36	0.00	44	41	91	31	0	0

## MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.22	0.38	0.47	0.52	0.58	0.65	0.69	0.71	0.73	0.74	0.75	0.82
Ended: Date	29	05	05	05	05	05	05	05	05	05	05	29
Ended: Time	2214	1308	1311	1311	1320	1331	1341	1400	1419	1419	1458	2215

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

## September 2011: Westford

Hour	SEP 19									SEP 20									SEP 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	30.35	0.00	41	39	93	31	0	0	0	29.98	0.00	57	45	65	21	6	19	0	30.12	0.00	58	57	96	22	0	8
04	0	30.32	0.00	39	38	94	31	0	0	0	29.95	0.06	52	48	85	20	3	13	0	30.14	0.00	56	55	96	20	0	3
07	12	30.31	0.00	38	37	95	31	0	0	9	29.93	0.00	52	50	94	20	2	13	9	30.17	0.00	56	55	97	21	1	7
10	478	30.28	0.00	59	49	69	21	3	4	65	29.96	0.08	54	53	95	20	5	16	163	30.20	0.00	58	57	97	22	4	9
13	657	30.21	0.00	65	48	54	23	3	10	271	29.97	0.00	58	56	95	21	5	12	650	30.15	0.00	70	57	64	13	0	9
16	413	30.11	0.00	67	48	50	22	7	12	193	29.99	0.00	62	58	87	23	4	9	417	30.12	0.00	73	58	60	21	1	10
19	0	30.05	0.00	54	47	78	14	0	1	0	30.03	0.00	59	55	87	20	0	0	0	30.10	0.00	61	55	80	21	0	0
22	0	30.02	0.00	55	45	70	21	2	7	0	30.08	0.00	56	54	95	20	0	1	0	30.09	0.00	56	52	86	19	0	0
SEP 22									SEP 23									SEP 24									
01	0	30.07	0.00	65	60	84	21	3	11	0	30.06	0.00	64	62	96	21	0	2	0	29.95	0.00	64	63	96	02	0	1
04	0	30.05	0.00	64	59	86	20	5	13	0	30.09	0.00	57	55	93	30	1	7	0	29.92	0.15	64	64	97	02	0	0
07	12	30.04	0.00	62	59	89	19	0	8	14	30.11	0.00	52	51	95	27	0	0	11	29.93	0.00	64	63	97	03	0	0
10	353	30.05	0.00	68	63	83	18	1	11	415	30.12	0.00	69	62	81	20	0	0	72	29.98	0.00	67	66	97	03	0	0
13	237	30.04	0.00	69	66	91	18	1	7	550	30.08	0.00	72	62	70	35	0	7	158	29.99	0.00	69	67	96	29	1	5
16	167	30.00	0.00	74	67	79	23	1	9	253	30.03	0.00	74	63	69	02	0	0	62	29.97	0.00	71	69	93	30	0	0
19	0	30.02	0.00	67	65	92	21	0	5	0	30.02	0.00	64	61	90	03	0	0	0	30.01	0.00	67	65	94	29	0	0
22	0	30.04	0.00	66	64	96	21	0	1	0	30.00	0.00	64	63	96	10	0	0	0	30.05	0.00	67	66	97	29	0	0
SEP 25									SEP 26									SEP 27									
01	0	30.07	0.00	65	64	97	29	0	1	0	30.01	0.00	54	53	95	10	0	0	0	29.96	0.00	51	50	95	03	0	0
04	0	30.07	0.00	62	61	96	29	1	3	0	30.00	0.00	53	52	96	10	0	0	0	29.96	0.00	49	48	96	03	0	0
07	12	30.11	0.00	61	60	96	29	0	0	14	30.02	0.00	52	51	96	10	0	0	9	29.97	0.00	48	47	96	03	0	0
10	190	30.12	0.00	66	63	91	35	0	5	441	30.00	0.00	67	64	92	10	0	1	431	29.98	0.00	65	60	84	04	0	0
13	638	30.07	0.00	75	63	68	31	1	5	629	29.99	0.00	74	57	56	29	1	8	606	29.96	0.00	76	59	56	10	0	1
16	262	30.04	0.00	77	61	58	35	0	3	380	29.94	0.00	76	56	51	02	0	7	346	29.93	0.00	79	61	55	12	0	1
19	0	30.02	0.00	63	58	84	05	0	1	0	29.94	0.00	60	53	79	03	0	0	0	29.93	0.00	63	59	85	08	0	0
22	0	30.02	0.00	57	55	93	10	0	0	0	29.96	0.00	53	51	93	03	0	0	0	29.96	0.00	64	61	91	17	0	6
SEP 28									SEP 29									SEP 30									
01	0	29.96	0.00	66	60	82	16	1	5	0	29.85	0.00	62	55	76	15	3	14	0	29.50	0.00	57	56	96	21	6	10
04	0	29.95	0.00	66	58	76	21	1	11	0	29.78	0.00	60	56	86	20	3	11	0	29.54	0.00	54	53	95	21	2	10
07	9	29.96	0.00	64	57	80	18	4	12	5	29.73	0.00	62	56	82	19	4	10	14	29.55	0.00	54	52	95	20	4	10
10	230	29.98	0.00	67	59	75	15	5	12	58	29.70	0.09	62	58	85	17	0	10	250	29.57	0.00	58	53	84	20	3	19
13	260	29.96	0.00	71	61	71	21	0	10	93	29.61	0.00	62	60	91	18	0	1	629	29.57	0.00	66	56	69	18	4	19
16	123	29.91	0.00	70	60	71	20	0	10	90	29.52	0.00	65	60	83	20	1	7	322	29.58	0.00	66	54	64	21	3	12
19	0	29.91	0.00	66	57	74	14	0	6	0	29.45	0.11	62	60	93	16	1	3	0	29.62	0.00	58	52	83	21	0	1
22	0	29.89	0.00	63	55	77	15	0	2	0	29.46	0.00	58	57	95	30	0	1	0	29.65	0.00	57	53	89	21	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

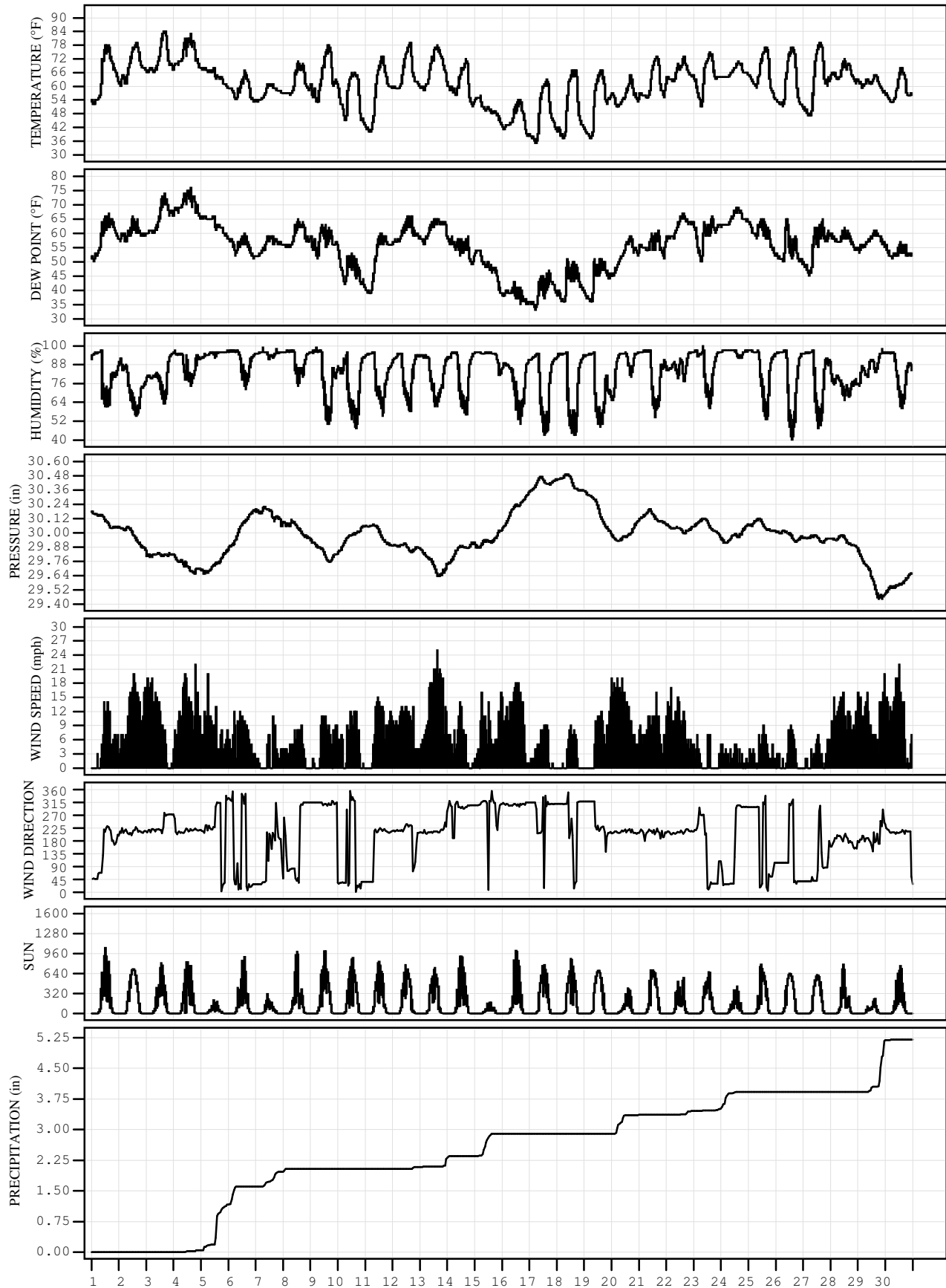
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01	0	29.990	57	54	91	1.0	21	0.8
04	0	29.984	56	54	92	1.0	22	0.7
07	16	29.998	55	53	93	1.2	22	0.9
10	312	30.010	63	58	83	2.0	21	1.5
13	512	29.989	68	58	72	2.3	25	1.6
16	320	29.955	70	59	68	1.6	24	1.2
19	5	29.958	62	57	83	0.5	23	0.3
22	0	29.973	58	55	89	0.6	25	0.4

## HOURLY PRECIPITATION (Water Equivalent) September 2011: Westford

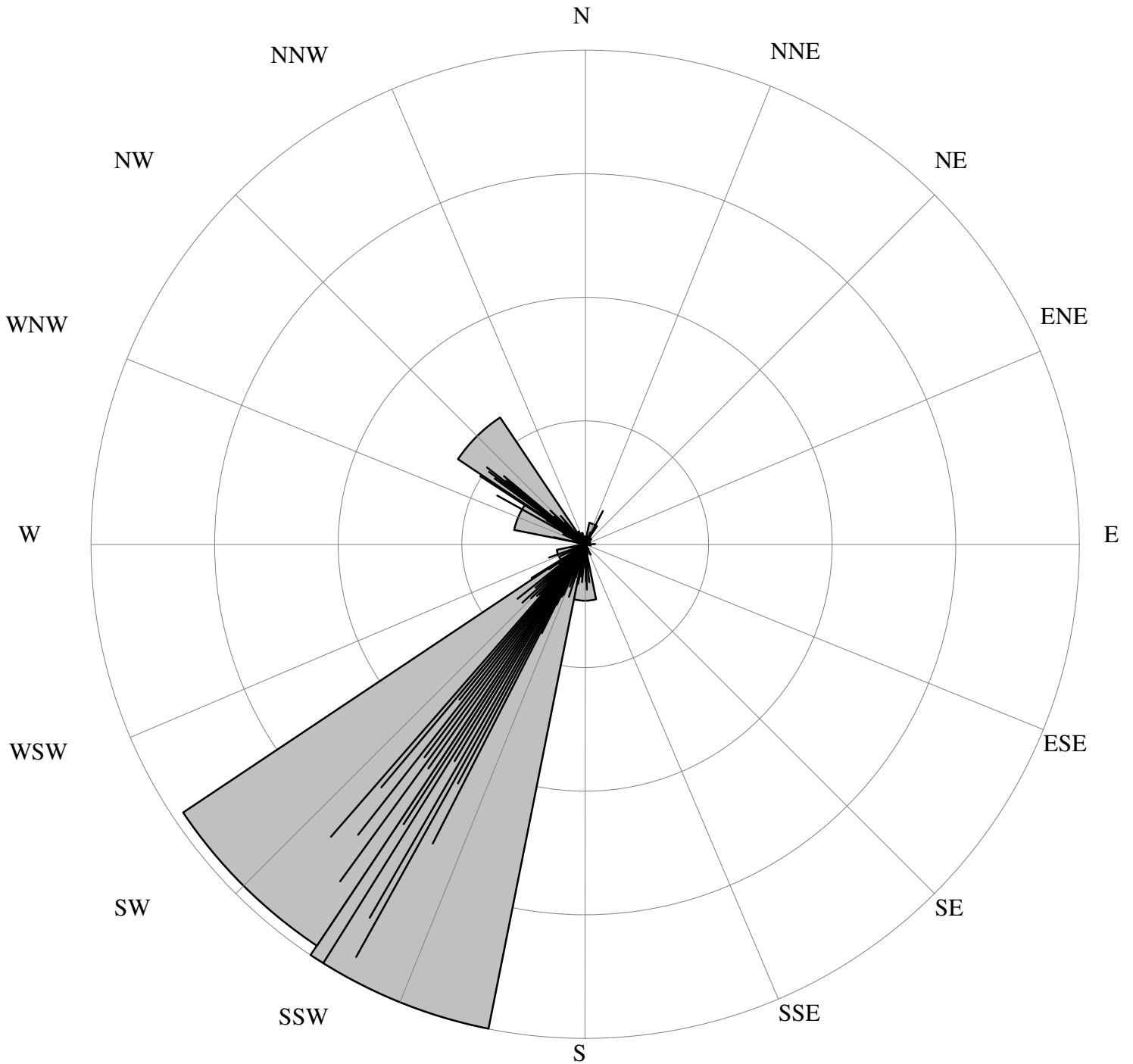
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date		
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12			
01																									01		
02																										02	
03																										03	
04											0.01	0.01														04	
05			0.08		0.02	0.01	0.01		0.02				0.16	0.54	0.04	0.03	0.02	0.06	0.04	0.03	0.01	0.03				05	
06	0.01	0.01	0.11	0.12	0.11	0.06	0.02																			06	
07							0.02	0.02	0.06	0.01	0.01		0.01	0.02	0.02	0.05	0.07	0.04	0.02	0.01						07	
08	0.03	0.04							0.01																		08
09									0.01																		09
10																											10
11																											11
12																		0.02	0.02								12
13			0.01																								13
14	0.04	0.01																		0.03			0.16	0.02			14
15				0.01			0.04	0.10	0.08	0.11	0.06	0.05	0.04	0.04	0.02												15
16																											16
17																											17
18																											18
19																											19
20				0.02	0.12	0.08	0.02	0.03	0.02	0.09	0.06	0.01												0.01			20
21																											21
22													0.02				0.02	0.05			0.01						22
23							0.01												0.01		0.02						23
24	0.04	0.06	0.01	0.14	0.05	0.04	0.02				0.02	0.01	0.01														24
25																											25
26																											26
27																											27
28																											28
29									0.02	0.02	0.07	0.02					0.01	0.13	0.33	0.26	0.03	0.36	0.02			29	
30				0.01																							30
<b>Sum</b>	0.12	0.12	0.21	0.29	0.31	0.19	0.13	0.16	0.19	0.23	0.18	0.15	0.26	0.60	0.08	0.08	0.09	0.15	0.26	0.39	0.32	0.07	0.55	0.07	<b>Sum</b>		

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  
September 2011: Westford



Wind Rose: September 2011  
Westford



Maximum direction of wind: 50.3 miles from 212°  
Maximum sector of wind: 317.4 miles from SSW  
868.1 total miles of wind