

# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary

### September 2010

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 hv 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 Mean Index	
	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
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	89.0*	69.1	79.0*	77.8	67	70	0	14	.....	0	0.00	0.0	29.98	29.83	29.918	1.5	1.5	220	14	SSW	8	206	0
2	87.7	66.7	77.2	76.7	67	73	0	13	.....	0	T	0.0	29.88	29.80	29.844	1.1	1.1	217	14	W	8	215	0
3	88.8	68.2	78.5	75.8	67	75	0	14	.....	0	0.00	0.0	29.80	29.43	29.636	1.7	1.7	209	21	SSW	9	218	0
4	74.1	56.9	65.5	65.8	55	69	0	1	.....	0	0.00	0.0	29.57	29.38	29.438	4.5	4.3	273	25	WNW	15	299	0
5	63.8	54.0	58.9	57.2	47	70	6	0	.....	0	0.03	0.0	29.98	29.56	29.755	4.3	4.2	257	26	WNW	14	278	0
6	71.3	49.3	60.3	59.4	51	74	5	0	.....	0	0.05	0.0	30.10	29.98	30.046	1.9	1.8	217	17	S	9	226	0
7	78.1	57.1	67.6	66.7	57	73	0	3	..3.....	0	0.17	0.0	30.05	29.72	29.933	2.4	2.4	210	27	SSE	12	228	0
8	72.3	56.3	64.3	63.8	57	80	1	0	..3.....	0	0.35	0.0	29.80	29.60	29.638	4.0	3.5	257	21	WNW	14	286	0
9	58.8	53.2	56.0	56.0	54	92	9	0	.....	0	0.37	0.0	29.74	29.61	29.656	1.1	0.9	304	15	NW	9	309	0
10	67.8	50.5	59.2	55.5	51	86	5	0	.....	0	0.00	0.0	29.91	29.74	29.824	0.6	0.5	1	12	N	6	307	0
11	73.4	46.1	59.8	57.2	49	78	5	0	.....	0	0.01	0.0	30.03	29.90	29.971	0.5	0.4	329	9	NNE	6	293	0
12	66.1	46.7	56.4	56.6	51	83	8	0	.....	0	0.03	0.0	30.00	29.95	29.978	2.0	1.9	200	18	SSW	9	189	0
13	66.0	52.3	59.1	56.7	53	88	6	0	..3.....	0	0.08	0.0	29.95	29.77	29.848	2.6	2.6	214	16	S	8	216	0
14	61.6	47.4	54.5	54.3	50	87	10	0	.....	0	0.19	0.0	29.87	29.75	29.810	1.4	1.2	248	14	W	7	300	0
15	58.0	45.6	51.8	50.3	46	85	13	0	.....	0	0.35	0.0	30.11	29.85	29.987	1.9	1.9	302	18	WNW	9	312	2
16	62.6	40.3	51.4	50.9	47	87	13	0	.....	0	0.60	0.0	30.10	29.68	29.945	0.7	0.6	212	12	SE	6	225	107
17	60.7	41.5	51.1	49.9	47	91	13	0	.....	0	0.04	0.0	30.15	29.68	29.953	0.5	0.4	353	10	N	5	25	74
18	66.4	37.1*	51.8	52.3	46	80	13	0	.....	0	0.00	0.0	30.22	30.04	30.133	1.6	1.5	217	18	W	10	215	232
19	69.0	43.0	56.0	56.9	51	80	9	0	.....	0	0.01	0.0	30.10	30.02	30.059	0.5	0.3	287	9	SW	5	320	150
20	63.9	42.2	53.1	51.8	43	74	12	0	.....	0	0.01	0.0	30.09	30.01	30.042	0.9	0.8	337	18	NW	11	315	226
21	63.2	38.4	50.8*	52.2	43	73	14	0	.....	0	T	0.0	30.16	29.82	30.007	3.5	3.5	211	27	S	13	228	117
22	66.1	53.6	59.8	60.8	54	78	5	0	.....	0	0.06	0.0	30.05	29.79	29.871	3.1	2.8	223	19	SSW	11	210	55
23	63.0	43.7	53.4	53.1	48	83	11	0	.....	0	0.02	0.0	30.23	30.04	30.150	0.2	0.1	333	7	WSW	5	292	148
24	78.0	52.4	65.2	67.6	62	84	0	0	.....	0	0.30	0.0	30.09	29.62	29.823	3.7	3.7	213	22	SW	12	210	112
25	73.8	55.6	64.7	64.4	55	71	0	0	.....	0	T	0.0	29.90	29.60	29.726	4.3	4.0	275	28	WNW	17	298	118
26	60.8	52.8	56.8	55.2	52	90	8	0	.....	0	0.01	0.0	30.14	29.90	30.046	0.5	0.3	331	9	WNW	6	307	71
27	62.5	48.1	55.3	55.9	52	89	9	0	.....	0	0.47	0.0	30.14	29.83	30.038	0.6	0.6	185	12	SE	5	136	64
28	75.1	57.7	66.4	66.2	63	91	0	2	.....	0	0.35	0.0	29.83	29.52	29.655	1.6	1.5	207	16	SW	8	204	69
29	67.9	51.2	59.6	61.2	57	85	5	0	.....	0	0.00	0.0	29.94	29.61	29.802	1.8	1.8	228	14	SSW	9	216	57
30	71.9	51.1	61.5	58.9	58	96	3	0	.....	0	1.41	0.0	29.93	29.42	29.749	1.3	0.7	249	26	SW	13	274	26
Sum	Sum	-----	-----	---	----	Ttl	Ttl	Number of Days		For the month:													---
2082	1528					183	47			4.91	0.0	30.23	29.38	29.876	1.9	1.4	241	28	WNW	17	298		
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl		Date	Date	-----	----	----	----	Date	Date	Avg			
69.4	50.9	60.2	59.6	53	81.1	----	----	≥.01 inch		21	38.54	0.0	23	4	-----	----	----	----	25	25	54		
Number of Days						Season to Date		Snow, Ice ≥1.0 inch		0	Greatest in 24 Hours and Dates						Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date						
Max Temperature			Min Temperature			234	482	Thunder		3	Precipitation			Snow, Ice Plts									
≥ 90°F		≤ 32°F		≤ 32°F		≤ 0°F		----	----	Heavy Fog		0	1.41	30	0.0	-	0		-				
0		0		0		0		----	----	Clear		5	Partly Cloudy		10	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

## September 2010: Westford

Hour	SEP 01									SEP 02									SEP 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	0	29.97	0.00	74	65	73	21	0	7	0	29.87	0.00	69	63	82	20	0	5	0	29.79	0.00	73	66	80	23	0	2
04	0	29.96	0.00	70	64	79	20	2	4	0	29.86	0.00	71	63	78	21	0	6	0	29.76	0.00	69	64	85	21	1	5
07	0	29.97	0.00	70	63	80	21	2	6	0	29.88	0.00	69	64	83	23	0	5	0	29.75	0.00	69	64	84	20	0	5
10	0	29.97	0.00	80	69	70	20	0	9	0	29.88	0.00	81	70	69	21	2	8	0	29.70	0.00	80	70	72	20	4	13
13	0	29.92	0.00	87	70	58	20	2	9	0	29.84	0.00	86	71	60	20	3	12	0	29.62	0.00	87	69	56	21	5	13
16	0	29.87	0.00	88	69	53	25	2	8	0	29.82	0.00	85	71	64	23	0	7	0	29.55	0.00	84	68	59	19	1	8
19	0	29.83	0.00	82	70	67	14	0	5	0	29.81	0.00	79	69	71	21	0	3	0	29.50	0.00	75	68	77	18	0	1
22	0	29.86	0.00	74	65	72	21	1	4	0	29.82	0.00	75	69	80	21	0	1	0	29.47	0.00	70	65	84	22	0	3
SEP 04									SEP 05									SEP 06									
01	0	29.44	0.00	71	65	83	03	1	4	0	29.58	0.00	57	46	66	24	5	18	0	29.99	0.00	56	47	71	26	1	10
04	0	29.42	0.00	67	61	82	32	0	0	0	29.62	0.00	56	43	63	28	8	18	0	30.02	0.00	52	47	85	20	1	6
07	0	29.40	0.00	63	59	87	30	0	3	0	29.67	0.00	55	45	71	23	1	6	0	30.07	0.00	51	47	87	21	1	7
10	0	29.39	0.00	70	55	59	27	4	13	0	29.73	0.00	59	50	73	28	6	15	0	30.10	0.00	64	52	66	22	0	9
13	0	29.38	0.00	73	51	47	28	10	19	0	29.77	0.00	61	47	60	26	7	15	0	30.06	0.00	67	53	59	17	4	13
16	0	29.43	0.00	65	51	60	28	8	17	0	29.81	0.00	62	48	61	23	1	13	0	30.04	0.00	64	53	67	21	1	8
19	0	29.50	0.00	60	47	63	25	8	13	0	29.85	0.00	55	50	84	21	2	6	0	30.04	0.00	60	54	80	19	0	4
22	0	29.54	0.00	58	47	68	25	7	23	0	29.93	0.00	55	47	75	22	1	13	0	30.04	0.00	61	52	72	21	1	5
SEP 07									SEP 08									SEP 09									
01	0	30.03	0.00	58	54	89	21	1	5	0	29.73	0.13	65	62	89	15	4	12	0	29.62	0.00	56	54	91	22	1	5
04	0	30.02	0.00	59	53	81	21	1	7	0	29.65	0.00	65	61	87	21	3	13	0	29.61	0.00	56	54	93	26	1	3
07	0	30.02	0.00	61	53	75	20	2	8	0	29.62	0.00	65	61	86	23	6	17	0	29.63	0.00	55	53	92	30	0	5
10	0	30.02	0.00	62	57	85	20	2	9	0	29.63	0.00	64	58	81	30	11	21	0	29.65	0.00	56	54	94	32	1	4
13	0	29.94	0.00	73	61	65	23	5	12	0	29.61	0.00	68	57	69	24	5	15	0	29.65	0.00	59	54	86	23	1	7
16	0	29.87	0.00	78	60	54	22	5	14	0	29.62	0.00	64	55	71	31	10	17	0	29.65	0.00	58	54	87	29	3	9
19	0	29.83	0.00	73	60	63	19	2	4	0	29.63	0.00	61	52	73	25	4	10	0	29.68	0.07	56	54	94	04	2	5
22	0	29.75	0.00	70	59	68	20	0	7	0	29.63	0.00	57	53	88	24	1	4	0	29.72	0.00	54	53	95	35	0	7
SEP 10									SEP 11									SEP 12									
01	0	29.74	0.00	53	51	95	00	1	7	0	29.91	0.00	50	48	92	01	0	0	0	29.98	0.00	48	46	93	05	0	0
04	0	29.76	0.00	51	50	95	02	0	5	0	29.93	0.00	47	45	94	01	0	1	0	29.97	0.00	47	45	94	05	0	0
07	0	29.81	0.00	51	49	94	31	0	8	0	29.98	0.00	46	45	95	00	0	0	0	29.99	0.00	56	51	86	23	0	5
10	0	29.83	0.00	54	50	86	34	1	7	0	30.02	0.00	61	51	69	31	1	7	0	29.99	0.00	65	53	66	23	4	9
13	0	29.84	0.00	59	54	82	29	1	6	0	30.01	0.00	70	54	58	29	3	8	0	29.99	0.00	65	54	68	17	4	12
16	0	29.83	0.00	65	52	63	33	0	6	0	29.96	0.00	73	54	51	30	1	5	0	29.97	0.00	60	53	80	22	1	9
19	0	29.86	0.00	59	53	79	30	0	6	0	29.97	0.00	57	51	81	31	0	0	0	29.98	0.00	57	53	84	21	2	10
22	0	29.89	0.00	56	51	85	32	0	1	0	29.97	0.00	52	48	88	04	0	0	0	29.97	0.00	57	51	80	22	3	12
SEP 13									SEP 14									SEP 15									
01	0	29.94	0.00	54	51	92	21	3	12	0	29.78	0.00	52	50	93	23	1	5	0	29.86	0.00	47	45	93	21	0	0
04	0	29.90	0.00	54	51	91	19	3	10	0	29.75	0.00	51	48	91	21	0	3	0	29.89	0.11	48	47	95	31	0	3
07	0	29.90	0.00	54	52	92	19	3	12	0	29.79	0.00	52	50	93	19	1	6	0	29.95	0.00	48	46	94	28	1	13
10	0	29.88	0.00	58	54	86	22	7	16	0	29.82	0.00	55	51	86	26	1	7	0	29.98	0.00	52	47	84	31	5	11
13	0	29.84	0.00	59	55	86	21	2	10	0	29.82	0.00	59	54	83	30	0	7	0	30.01	0.00	56	44	64	29	7	13
16	0	29.78	0.00	65	58	77	22	2	9	0	29.81	0.00	61	54	78	31	2	6	0	30.01	0.00	53	45	75	28	4	9
19	0	29.79	0.00	57	53	86	19	0	4	0	29.84	0.00	53	50	90	28	1	5	5	30.04	0.00	51	45	81	30	0	3
22	0	29.80	0.07	55	52	90	19	0	8	0	29.86	0.00	52	48	86	27	0	2	0	30.10	0.00	47	45	92	26	0	3
SEP 16									SEP 17									SEP 18									
01	0	30.08	0.00	47	43	87	22	0	0	0	29.69	0.00	52	50	95	03	0	3	0	30.16	0.00	40	39	94	31	0	0
04	0	30.08	0.00	41	39	93	22	0	0	0	29.76	0.00	49	47	95	02	1	8	0	30.16	0.00	40	38	95	31	0	0
07	16	30.10	0.00	44	43	95	21	0	6	0	29.86	0.00	47	46	95	01	0	8	14	30.21	0.00	37	36	95	31	0	0
10	292	30.05	0.00	54	47	78	22	2	9	79	29.97	0.00	49	47	96	35	0	9	580	30.21	0.00	54	50	86	20	1	7
13	431	29.97	0.00	59	48	66	22	4	9	287	30.02	0.00	53	50	91	02	0	6	782	30.13	0.00	64	51	63	23	2	16
16	62	29.90	0.00	55	51	86	21	0	0	202	30.04	0.00	58	51	79	35	0	1	482	30.08	0.00	66	50	57	24	7	14
19	0	29.77	0.06	53	51	94	06	0	2	0	30.08	0.00	50	46	87	31	0	0	0	30.06	0.00	58	49	73	22	1	7
22	0	29.70	0.15	52	51	95	03	1	3	0	30.12	0.00	43	41	94	31	0	0	0	30.07	0.00	57	50	78	20	3	8

### MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.31	0.45	0.59	0.62	0.66	0.70	0.74	0.78	0.85	0.86	0.87	0.87
Ended: Date	30	30	30	30	30	30	30	30	30	30	30	30
Ended: Time	2155	2200	2204	2207	2217	2229	2247	2306	2328	2338	2351	2351

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 2010: Westford

Hour	Wind			Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity			Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity			Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity		
	Direction	Speed	Gust						Direction	Speed	Gust						Direction	Speed	Gust						Direction	Speed	Gust
SEP 19									SEP 20									SEP 21									
01	0	30.06	0.00	58	51	78	19	0	4	0	30.03	0.00	43	41	94	20	0	0	0	30.09	0.00	45	39	82	04	0	1
04	0	30.05	0.00	56	52	88	21	0	3	0	30.01	0.00	46	45	95	20	0	0	0	30.09	0.00	40	38	93	04	0	2
07	5	30.08	0.00	56	53	88	31	0	3	18	30.04	0.00	44	42	94	03	0	5	19	30.12	0.00	41	39	94	22	0	3
10	123	30.09	0.00	57	53	86	32	0	4	575	30.09	0.00	56	48	74	02	1	5	149	30.13	0.00	52	44	73	22	2	10
13	958	30.07	0.00	65	54	68	28	4	6	853	30.06	0.00	63	44	51	01	1	9	130	30.08	0.00	57	45	66	20	2	7
16	476	30.02	0.00	68	52	58	34	2	7	499	30.01	0.00	63	41	44	02	3	11	132	29.93	0.00	60	46	59	21	8	24
19	5	30.03	0.00	53	46	79	20	0	0	0	30.02	0.00	51	40	67	31	0	4	0	29.85	0.00	59	46	61	20	7	17
22	0	30.05	0.00	44	41	90	20	0	0	0	30.06	0.00	50	41	73	02	1	5	0	29.83	0.00	62	46	56	20	7	17
SEP 22									SEP 23									SEP 24									
01	0	29.82	0.00	60	47	63	22	4	18	0	30.05	0.00	52	48	88	31	0	1	0	30.05	0.00	53	50	91	18	0	0
04	0	29.80	0.00	60	49	68	20	7	18	0	30.10	0.00	49	47	94	31	0	0	0	29.95	0.00	57	55	95	19	3	10
07	11	29.85	0.00	58	50	75	21	3	9	14	30.17	0.00	44	42	94	03	0	0	9	29.92	0.00	62	60	93	21	4	12
10	86	29.87	0.00	57	54	89	23	1	7	255	30.22	0.00	52	47	82	10	0	4	84	29.90	0.00	65	62	90	21	4	11
13	283	29.85	0.00	65	57	76	19	5	11	628	30.21	0.00	62	49	62	27	1	6	645	29.81	0.00	75	67	76	21	7	18
16	88	29.84	0.00	65	59	80	21	3	8	183	30.16	0.00	61	48	63	05	0	1	193	29.73	0.00	77	69	76	21	3	14
19	0	29.88	0.00	62	59	89	22	2	5	0	30.14	0.00	53	49	86	09	0	0	0	29.68	0.00	74	67	77	20	3	11
22	0	29.99	0.00	57	52	84	31	1	7	0	30.13	0.00	53	48	84	06	0	5	0	29.66	0.00	76	68	74	24	5	17
SEP 25									SEP 26									SEP 27									
01	0	29.60	0.00	74	67	79	21	5	16	0	29.92	0.00	55	50	83	31	0	3	0	30.13	0.00	54	51	91	17	0	0
04	0	29.61	0.00	73	63	71	26	4	10	0	29.94	0.00	53	50	91	31	0	0	0	30.11	0.00	54	50	87	17	0	4
07	21	29.66	0.00	65	54	67	29	14	25	5	30.00	0.00	54	52	94	31	0	0	12	30.12	0.00	48	46	92	13	0	0
10	561	29.70	0.00	66	53	61	29	9	16	67	30.07	0.00	56	54	93	02	0	3	543	30.11	0.00	61	53	76	15	2	8
13	327	29.73	0.00	61	54	80	30	6	13	262	30.08	0.00	59	54	86	30	6	9	193	30.06	0.00	60	53	78	20	2	7
16	137	29.76	0.00	61	50	68	29	9	18	128	30.09	0.00	57	53	87	26	0	5	88	29.99	0.00	59	55	85	15	0	5
19	0	29.82	0.00	58	51	76	25	0	7	0	30.10	0.00	55	52	90	02	0	0	0	29.94	0.10	56	54	93	10	0	2
22	0	29.87	0.00	58	50	75	27	0	4	0	30.13	0.00	53	52	94	02	0	0	0	29.89	0.08	56	55	95	18	3	8
SEP 28									SEP 29									SEP 30									
01	0	29.82	0.04	58	56	95	23	0	7	0	29.63	0.00	67	66	95	23	1	8	0	29.92	0.00	52	51	95	17	0	2
04	0	29.73	0.00	60	59	96	21	1	6	0	29.67	0.00	63	59	87	23	4	9	0	29.92	0.00	54	53	96	17	0	0
07	9	29.70	0.00	64	62	94	21	1	9	0	29.74	0.00	59	54	85	21	1	7	0	29.89	0.00	54	53	96	17	0	0
10	107	29.68	0.00	66	65	95	24	0	3	151	29.81	0.00	61	56	83	22	4	10	58	29.84	0.04	57	56	96	17	0	0
13	265	29.63	0.00	73	67	81	19	2	10	146	29.84	0.00	64	56	76	25	2	8	98	29.77	0.06	60	59	97	05	1	3
16	190	29.57	0.00	74	67	77	18	2	12	111	29.86	0.00	65	57	77	27	2	7	21	29.68	0.07	62	61	96	10	0	0
19	0	29.56	0.00	68	66	95	27	1	7	0	29.91	0.00	60	55	84	27	0	3	0	29.54	0.00	63	62	97	14	2	8
22	0	29.59	0.00	68	66	95	22	2	11	0	29.92	0.00	54	51	91	18	0	0	0	29.51	2.77	68	66	93	26	11	24

### 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

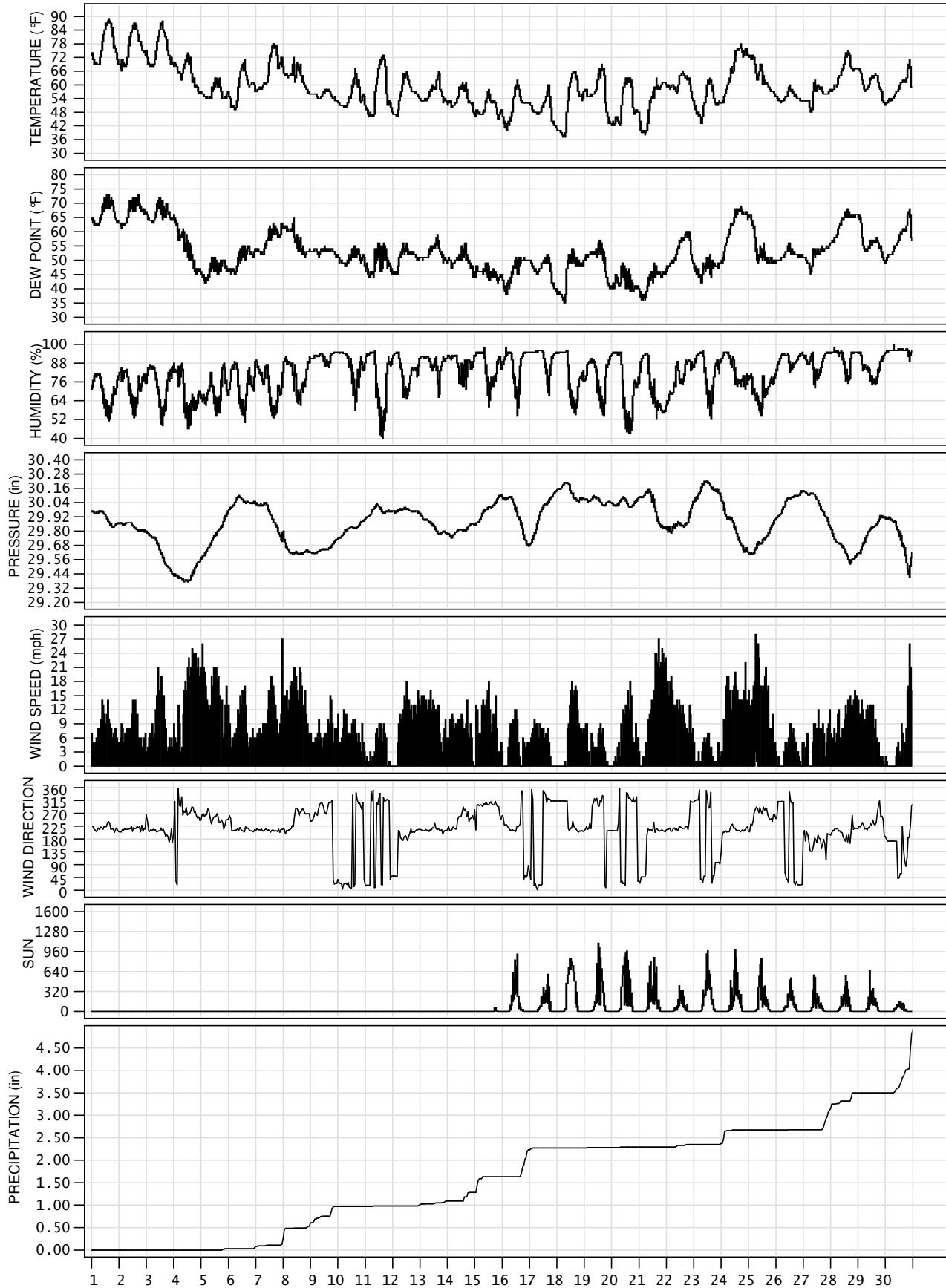
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01	0	29.876	56	52	86	1.0	22	0.8
04	0	29.871	55	51	88	1.3	23	1.0
07	5	29.897	55	51	88	1.4	24	1.1
10	124	29.911	61	54	80	2.6	26	1.9
13	210	29.887	66	55	71	3.5	25	2.5
16	100	29.857	66	55	70	2.7	27	1.9
19	0	29.851	60	54	81	1.3	23	1.0
22	0	29.862	58	53	83	1.5	24	1.3

## HOURLY PRECIPITATION (Water Equivalent) September 2010: Westford

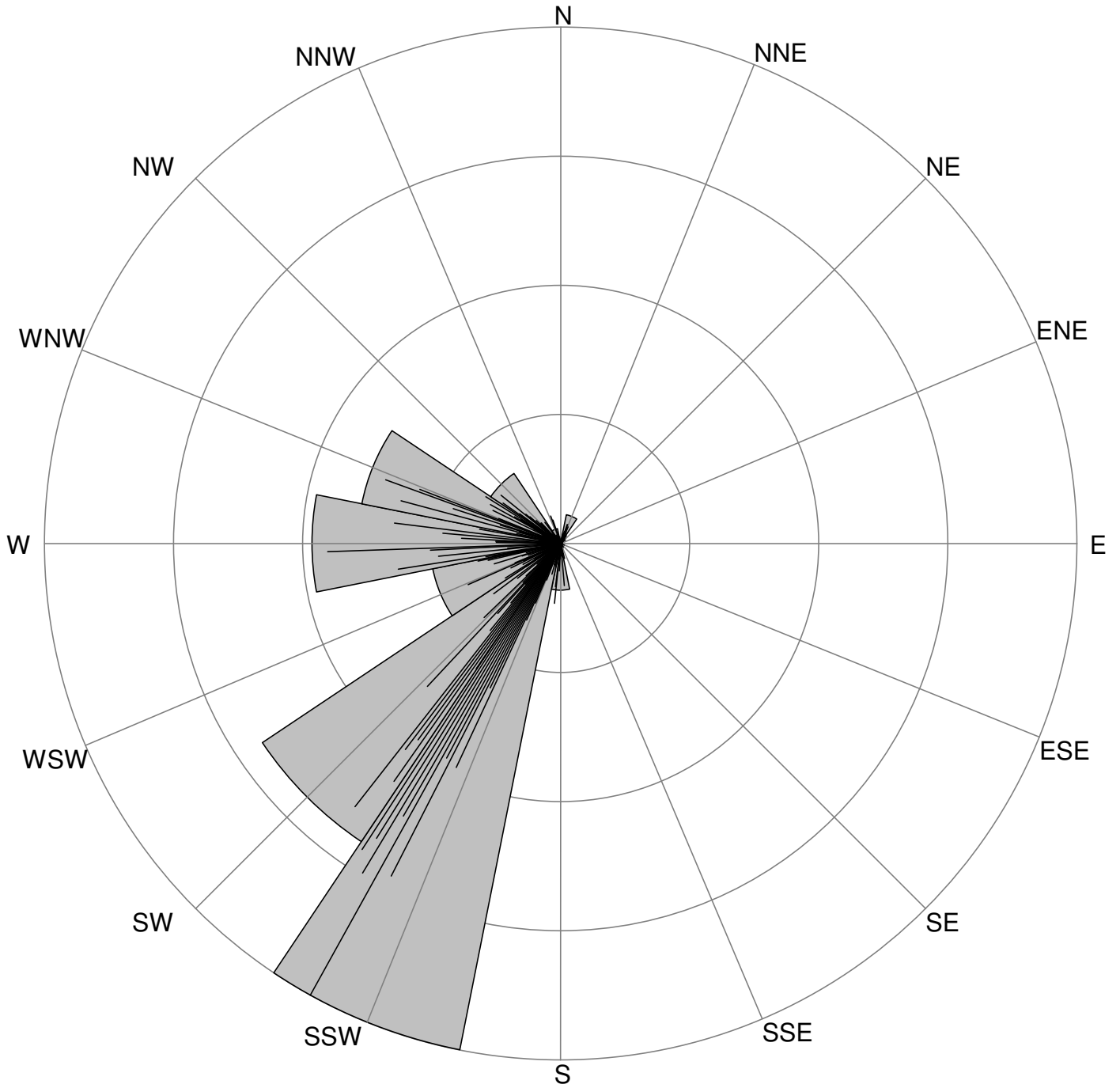
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01																								01	
02																									02
03																									03
04																									04
05																			0.01		0.02				05
06																							0.02	0.03	06
07		0.01						0.01	0.01												0.02	0.02	0.12	0.07	07
08	0.20	0.03							0.01												0.02	0.02		0.07	08
09	0.01		0.04	0.04		0.02		0.02	0.01	0.01								0.10	0.08	0.03	0.01				09
10																									10
11																									11
12								0.01																	12
13	0.01				0.01								0.01	0.01						0.01		0.02	0.01	0.02	13
14															0.09				0.09	0.01					14
15		0.15	0.12	0.04			0.04																		15
16																0.01	0.07	0.14	0.04	0.14	0.02	0.15	0.03		16
17	0.02	0.01	0.01																						17
18																									18
19			0.01																						19
20								0.01																	20
21																									21
22									0.02	0.02							0.01	0.01							22
23																							0.02		23
24		0.09	0.19		0.01					0.01															24
25																									25
26											0.01														26
27																									27
28	0.10				0.01			0.02	0.04							0.02	0.05	0.10	0.08	0.05	0.09	0.04	0.04	28	
29																									29
30								0.02	0.04	0.04		0.03	0.07	0.06	0.08	0.03	0.07	0.07		0.02	0.01	0.44	0.32	0.11	30
Sum	0.34	0.29	0.37	0.08	0.03	0.02	0.05	0.07	0.12	0.10	0.01	0.03	0.08	0.07	0.17	0.04	0.17	0.51	0.37	0.28	0.13	0.72	0.45	0.41	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 September 2010: Westford



Wind Rose: September 2010  
**Westford**



Maximum direction of wind: 66.1 miles from 209°  
Maximum sector of wind: 420.7 miles from SSW  
1345.8 total miles of wind