

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

September 2009

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 Speed	Res Speed	Res Dir	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	72.9	41.7	57.3	55.9	48	77	7	0	.....	0	0.00	0.0	30.28	30.19	30.235	0.7	0.6	241	9	S	5	296
2	76.4	46.9	61.7	60.5	53	77	3	0	.....	0	0.00	0.0	30.27	30.15	30.219	1.1	1.1	211	12	WSW	7	220
3	79.6	50.5	65.0	63.5	56	78	0	1	.....	0	0.00	0.0	30.16	30.01	30.093	0.6	0.5	227	10	SSW	5	208
4	79.9*	52.5	66.2	64.5	57	80	0	2	.....	0	0.00	0.0	30.05	29.99	30.024	0.2	0.2	322	9	WNW	5	308
5	70.4	45.2	57.8	58.5	52	80	7	0	.....	0	0.00	0.0	30.26	30.05	30.155	0.8	0.7	327	16	NW	9	302
6	71.3	42.3	56.8	55.2	47	76	8	0	.....	0	0.00	0.0	30.39	30.26	30.324	0.4	0.3	307	11	WNW	7	305
7	75.8	48.6	62.2	60.9	54	78	2	0	.....	0	0.00	0.0	30.28	30.10	30.184	2.0	2.0	216	13	S	8	218
8	79.7	52.6	66.1	64.4	58	81	0	2	.....	0	0.00	0.0	30.12	30.02	30.079	1.0	0.6	237	11	WNW	5	285
9	74.8	47.0	60.9	59.2	51	77	4	0	.....	0	0.00	0.0	30.30	30.09	30.191	0.5	0.5	13	10	W	5	303
10	72.8	45.1	59.0	57.0	48	74	6	0	.....	0	0.00	0.0	30.44	30.30	30.392	0.9	0.8	209	15	WSW	7	237
11	70.4	42.5	56.5	55.6	47	76	8	0	.....	0	0.00	0.0	30.38	30.16	30.287	0.2	0.1	83	8	E	5	44
12	70.6	53.9	62.3	60.8	57	87	2	0	.....	0	T	0.0	30.16	29.90	30.029	0.2	0.1	16	6	NNE	3	17
13	66.2	51.4	58.8	58.6	56	91	6	0	.....	0	0.08	0.0	29.90	29.83	29.854	0.6	0.4	291	13	WSW	7	293
14	70.6	44.3	57.4	57.5	51	80	7	0	.....	0	0.02	0.0	29.90	29.75	29.835	1.1	0.9	258	13	NW	8	305
15	65.6	50.3	57.9	58.3	52	81	7	0	.....	0	0.00	0.0	30.09	29.76	29.912	1.1	0.5	314	14	S	6	300
16	67.0	43.6	55.3	54.7	48	81	9	0	.....	0	0.00	0.0	30.31	30.08	30.237	0.4	0.4	342	11	WNW	6	301
17	68.3	41.8	55.1	54.0	48	81	10	0	.....	0	0.00	0.0	30.30	29.99	30.177	1.2	1.2	217	12	SE	6	223
18	62.3	44.5	53.4	52.5	48	84	11	0	.....	0	0.31	0.0	30.07	29.83	29.914	3.7	2.6	274	28	WNW	13	309
19	61.2	38.2	49.7	47.8	40	76	15	0	.....	0	0.00	0.0	30.27	30.07	30.202	1.9	1.9	311	17	NW	10	317
20	70.4	35.7	53.1	50.9	41	73	12	0	.....	0	0.00	0.0	30.32	30.20	30.260	1.2	1.2	224	14	SSW	9	221
21	76.8	41.0	58.9	57.5	48	73	6	0	.....	0	0.00	0.0	30.28	30.17	30.222	0.9	0.9	211	10	SSE	6	223
22	71.6	59.0	65.3	63.6	57	80	0	1	.....	0	0.04	0.0	30.17	30.07	30.134	4.0	4.0	212	21	SW	11	203
23	72.7	63.8	68.2*	67.0	64	90	0	4	.....	0	0.72	0.0	30.07	29.83	29.950	3.7	3.2	220	21	SW	12	214
24	68.9	47.5	58.2	57.5	51	81	6	0	.....	0	0.00	0.0	30.08	29.89	30.003	0.9	0.8	317	14	WNW	8	305
25	58.6	35.9	47.3	47.8	41	79	17	0	.....	0	0.01	0.0	30.37	30.08	30.263	1.2	1.2	22	14	NNE	7	14
26	62.5	32.0*	47.3	48.3	39	73	17	0	.....	0	0.00	0.0	30.36	29.92	30.182	3.1	3.1	211	22	S	12	205
27	59.8	48.6	54.2	54.4	52	93	10	0	.....	0	1.53	0.0	29.92	29.42	29.663	1.6	1.4	200	20	SSW	11	207
28	66.8	47.1	57.0	57.0	54	91	8	0	.....	0	0.41	0.0	29.46	29.32	29.406	2.0	1.6	225	22	W	13	288
29	59.0	47.1	53.0	51.7	48	89	12	0	.....	0	0.20	0.0	29.50	29.32	29.384	2.7	2.6	214	23	SSW	11	205
30	51.7	40.3	46.0*	44.3	40	85	19	0	.....	0	0.06	0.0	29.85	29.50	29.723	2.8	2.8	295	18	WNW	10	287
Sum	Sum	-----	-----	---	----	Ttl	Ttl						For the month:										---
2075	1381					219	10		Number of Days		3.38	0.0	30.44	29.32	30.051	1.4	0.9	242	28	WNW	13	309	
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip		Season Ttl		Date	Date	-----	----	----	---	Date	Date		Avg	
69.2	46.0	57.6	56.6	50	80.8	----	----		≥.01 inch	10	34.73	0.0	10	29	-----	----	----	---	18	18			
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			309	271	Thunder	0	Precipitation			Snow, Ice Plts										
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	1.53	27	0.0	-	0						-					
0	0	1	0	----	----	Clear	9	Partly Cloudy			12	Cloudy			9								

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

September 2009: 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		30.20	0.00	46	44	92	29	0	0		30.25	0.00	50	48	94	22	0	1		30.16	0.00	55	52	88	20	0	0
04		30.21	0.00	43	41	94	20	0	0		30.25	0.00	47	46	95	22	0	0		30.14	0.00	51	49	93	29	0	0
07		30.25	0.00	43	41	95	20	0	0		30.26	0.00	48	46	95	22	0	2		30.15	0.00	51	50	95	26	0	0
10		30.28	0.00	61	52	72	20	2	9		30.27	0.00	63	54	72	20	4	9		30.14	0.00	68	59	73	20	1	7
13		30.26	0.00	68	51	54	31	0	8		30.24	0.00	72	56	57	19	3	10		30.10	0.00	75	60	60	21	2	6
16		30.22	0.00	72	52	49	27	3	7		30.18	0.00	76	57	53	21	3	9		30.04	0.00	78	59	52	21	1	7
19		30.20	0.00	64	56	75	23	0	0		30.15	0.00	68	57	68	20	0	4		30.01	0.00	69	61	76	20	0	0
22		30.24	0.00	50	48	92	23	0	0		30.16	0.00	58	53	84	21	1	5		30.03	0.00	57	55	93	20	0	0
SEP 04									SEP 05									SEP 06									
01		30.04	0.00	56	54	95	20	0	0		30.05	0.00	60	58	92	22	0	0		30.27	0.00	46	45	94	07	0	0
04		30.02	0.00	54	52	95	21	0	0		30.06	0.00	55	53	94	22	0	0		30.31	0.00	44	42	93	06	0	0
07		30.03	0.00	53	52	96	21	0	0		30.13	0.00	50	48	95	22	0	0		30.36	0.00	43	41	93	06	0	0
10		30.04	0.00	71	61	71	08	1	3		30.18	0.00	62	54	76	28	2	8		30.39	0.00	60	47	62	06	0	2
13		30.02	0.00	78	61	56	00	0	5		30.18	0.00	68	55	63	31	3	6		30.36	0.00	67	51	56	28	0	5
16		30.00	0.00	79	59	50	00	1	6		30.17	0.00	69	51	54	32	2	9		30.32	0.00	71	50	48	27	3	5
19		30.00	0.00	68	60	75	02	0	0		30.19	0.00	60	50	69	04	0	2		30.29	0.00	61	52	74	30	0	0
22		30.04	0.00	57	56	94	02	0	0		30.25	0.00	47	44	91	08	0	0		30.29	0.00	51	46	85	20	0	4
SEP 07									SEP 08									SEP 09									
01		30.27	0.00	49	46	90	21	0	2		30.10	0.00	57	54	91	20	1	5		30.10	0.00	55	53	94	08	0	1
04		30.25	0.00	52	48	85	20	2	7		30.10	0.00	56	54	93	21	3	7		30.12	0.00	49	47	95	10	0	0
07		30.24	0.00	54	50	85	20	3	8		30.10	0.00	53	51	94	20	0	0		30.16	0.00	49	48	96	10	0	1
10		30.22	0.00	62	56	80	20	1	9		30.11	0.00	68	60	75	19	3	7		30.21	0.00	64	55	74	32	0	1
13		30.19	0.00	69	58	68	22	4	7		30.08	0.00	76	59	56	01	1	5		30.21	0.00	71	60	69	01	0	9
16		30.13	0.00	76	57	52	29	3	5		30.03	0.00	77	64	64	31	1	9		30.20	0.00	74	52	46	01	1	9
19		30.10	0.00	65	57	76	18	0	0		30.03	0.00	68	61	79	05	0	0		30.23	0.00	62	50	67	11	0	2
22		30.12	0.00	59	56	89	20	1	8		30.07	0.00	58	56	94	05	0	0		30.28	0.00	52	47	87	09	0	1
SEP 10									SEP 11									SEP 12									
01		30.31	0.00	46	43	91	17	0	1		30.37	0.00	45	43	90	20	0	0		30.15	0.00	54	52	93	10	0	0
04		30.36	0.00	48	46	94	21	0	0		30.35	0.00	44	42	93	19	0	1		30.10	0.00	54	52	94	10	0	0
07		30.41	0.00	45	44	95	21	0	0		30.36	0.00	43	41	93	22	0	0		30.09	0.00	55	53	93	05	0	4
10		30.43	0.00	65	50	60	18	3	13		30.33	0.00	58	49	74	11	0	5		30.07	0.00	60	56	84	04	1	5
13		30.42	0.00	70	49	48	25	1	8		30.28	0.00	67	45	45	20	0	6		30.02	0.00	70	61	74	12	0	2
16		30.39	0.00	72	50	46	22	3	8		30.23	0.00	70	49	48	08	0	1		29.97	0.00	70	62	77	33	0	4
19		30.40	0.00	60	50	68	23	0	4		30.22	0.00	59	53	80	19	0	1		29.95	0.00	65	61	88	29	0	0
22		30.40	0.00	51	46	84	17	0	1		30.18	0.00	55	52	91	14	0	0		29.93	0.00	59	57	94	24	0	1
SEP 13									SEP 14									SEP 15									
01		29.90	0.00	60	59	96	23	0	1		29.87	0.00	52	50	92	30	8	13		29.77	0.00	60	57	92	21	5	9
04		29.87	0.00	55	54	95	23	0	1		29.88	0.00	47	45	92	21	0	1		29.77	0.00	59	56	93	24	1	5
07		29.85	0.00	55	54	96	20	1	5		29.89	0.00	44	43	95	20	0	3		29.83	0.00	56	54	92	02	1	8
10		29.84	0.00	61	59	94	26	2	6		29.89	0.00	61	49	67	27	1	5		29.90	0.00	58	51	78	02	2	8
13		29.85	0.00	63	61	93	30	3	5		29.84	0.00	65	50	58	20	1	5		29.93	0.00	63	52	68	33	1	9
16		29.83	0.00	66	59	80	32	1	5		29.78	0.00	71	56	60	28	3	8		29.96	0.00	64	50	62	31	2	9
19		29.84	0.00	60	56	86	03	0	2		29.78	0.00	61	55	79	29	0	5		30.01	0.00	54	49	85	05	0	0
22		29.86	0.00	52	50	94	03	0	0		29.78	0.00	59	56	90	21	1	6		30.07	0.00	52	49	87	03	0	1
SEP 16									SEP 17									SEP 18									
01		30.10	0.00	48	45	91	00	0	0		30.30	0.00	44	42	94	08	0	0		29.98	0.00	51	48	91	21	3	7
04		30.14	0.00	50	49	94	01	0	0		30.28	0.00	45	44	95	20	0	3		29.92	0.00	51	48	91	22	1	6
07		30.21	0.00	49	47	93	01	0	1		30.27	0.00	42	41	95	20	0	0		29.85	0.00	51	49	94	20	5	12
10		30.27	0.00	56	51	84	31	0	4		30.26	0.00	58	51	77	18	2	8		29.84	0.00	52	51	94	22	3	12
13		30.27	0.00	66	52	61	00	2	7		30.20	0.00	65	53	66	29	3	8		29.85	0.00	57	56	95	29	6	14
16		30.27	0.00	65	49	56	04	1	6		30.11	0.00	68	51	54	25	3	7		29.88	0.00	60	48	63	30	9	28
19		30.29	0.00	56	48	75	01	0	0		30.05	0.00	56	49	77	20	0	4		29.95	0.00	52	43	70	32	1	11
22		30.30	0.00	48	44	86	08	0	0		30.02	0.00	52	48	87	20	2	10		30.04	0.00	47	40	79	31	4	11

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.05	0.07	0.10	0.13	0.18	0.26	0.33	0.42	0.53	0.62	0.76	0.88
Ended: Date	23	23	23	27	27	27	27	27	27	27	27	27
Ended: Time	1718	2134	2138	2229	2232	2239	2239	2226	2239	2236	2247	2243

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 2009: Westford

Hour	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						Direction	Speed	Gust													
SEP 19												SEP 20												SEP 21											
01	30.09	0.00	45	39	81	31	4	13	30.27	0.00	38	36	94	27	0	0	30.24	0.00	44	41	88	21	0	0											
04	30.12	0.00	42	39	86	30	5	12	30.29	0.00	38	37	95	21	0	4	30.24	0.00	42	40	94	21	0	0											
07	30.18	0.00	43	39	85	31	2	12	30.30	0.00	36	34	94	24	0	0	30.27	0.00	41	40	94	21	0	0											
10	30.23	0.00	51	41	70	33	0	9	30.31	0.00	53	44	72	21	7	14	30.27	0.00	62	51	69	17	3	7											
13	30.25	0.00	57	44	62	28	5	12	30.26	0.00	66	41	40	31	5	10	30.23	0.00	73	55	53	25	1	8											
16	30.22	0.00	61	44	53	31	0	9	30.21	0.00	70	41	35	23	3	9	30.19	0.00	76	55	48	20	1	6											
19	30.23	0.00	47	41	79	35	0	0	30.22	0.00	55	43	64	21	1	4	30.17	0.00	62	51	67	20	1	4											
22	30.26	0.00	39	36	91	27	0	1	30.22	0.00	47	42	83	21	0	2	30.18	0.00	58	50	76	21	2	6											
SEP 22												SEP 23												SEP 24											
01	30.17	0.00	60	51	72	20	3	10	30.07	0.00	66	62	87	21	1	10	29.90	0.00	63	61	95	33	1	12											
04	30.16	0.00	60	52	74	20	4	10	30.04	0.00	66	62	87	21	5	11	29.95	0.00	55	53	91	02	0	1											
07	30.15	0.00	60	54	81	21	8	17	30.02	0.00	64	61	91	21	6	13	30.02	0.00	48	47	94	06	0	0											
10	30.16	0.00	60	57	90	21	6	12	30.00	0.00	68	65	88	21	8	14	30.04	0.00	60	52	75	30	2	4											
13	30.15	0.00	68	60	76	22	7	17	29.94	0.00	71	65	81	22	7	13	30.02	0.00	66	54	67	35	1	8											
16	30.09	0.00	72	62	72	22	5	11	29.86	0.06	67	65	93	21	2	6	29.99	0.00	68	51	54	34	1	7											
19	30.11	0.00	66	60	83	20	3	10	29.84	0.00	67	66	96	21	5	8	30.01	0.00	54	47	77	32	0	1											
22	30.10	0.00	65	61	86	21	3	9	29.85	0.06	66	64	95	31	1	6	30.07	0.00	48	44	86	31	0	4											
SEP 25												SEP 26												SEP 27											
01	30.08	0.00	50	46	86	01	0	3	30.35	0.00	35	34	94	02	0	0	29.90	0.00	50	46	85	20	6	15											
04	30.12	0.00	47	45	90	03	1	7	30.33	0.00	33	32	94	02	0	0	29.86	0.00	49	47	92	21	2	13											
07	30.22	0.00	45	41	85	05	1	11	30.31	0.00	33	32	95	01	0	0	29.78	0.00	51	49	94	18	1	5											
10	30.29	0.00	48	42	80	00	1	12	30.27	0.00	53	42	67	22	4	11	29.73	0.00	54	52	95	15	1	7											
13	30.33	0.00	52	42	68	00	1	10	30.17	0.00	60	45	57	21	8	14	29.64	0.00	58	56	93	20	0	8											
16	30.32	0.00	58	40	52	01	4	8	30.07	0.00	62	41	46	20	5	17	29.56	0.00	59	57	92	12	2	8											
19	30.34	0.00	45	39	81	02	0	1	30.02	0.00	54	43	66	19	2	9	29.48	0.20	57	55	94	06	0	2											
22	30.36	0.00	38	36	92	02	0	0	29.99	0.00	54	44	69	21	3	15	29.43	0.23	57	55	95	02	0	0											
SEP 28												SEP 29												SEP 30											
01	29.43	0.00	56	55	96	29	3	7	29.40	0.00	49	47	94	19	3	7	29.51	0.00	51	49	93	28	1	6											
04	29.42	0.00	56	55	96	31	2	7	29.38	0.00	48	46	93	20	0	6	29.59	0.00	46	43	88	29	8	15											
07	29.43	0.00	55	54	96	21	0	0	29.39	0.00	48	46	92	20	2	8	29.68	0.00	42	38	86	29	2	10											
10	29.45	0.00	60	59	96	21	3	12	29.37	0.00	57	50	76	20	6	21	29.74	0.00	44	40	85	29	4	12											
13	29.38	0.00	66	56	71	19	1	15	29.35	0.00	55	48	78	19	4	17	29.76	0.00	44	39	81	29	6	11											
16	29.33	0.00	60	57	90	20	1	5	29.32	0.04	52	49	91	19	5	11	29.78	0.00	45	38	76	29	6	12											
19	29.38	0.00	59	56	92	21	2	7	29.39	0.00	52	50	93	24	3	9	29.82	0.00	42	37	82	29	3	10											
22	29.39	0.00	50	48	93	22	0	1	29.46	0.00	52	50	93	24	0	4	29.84	0.00	41	36	81	28	2	7											

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

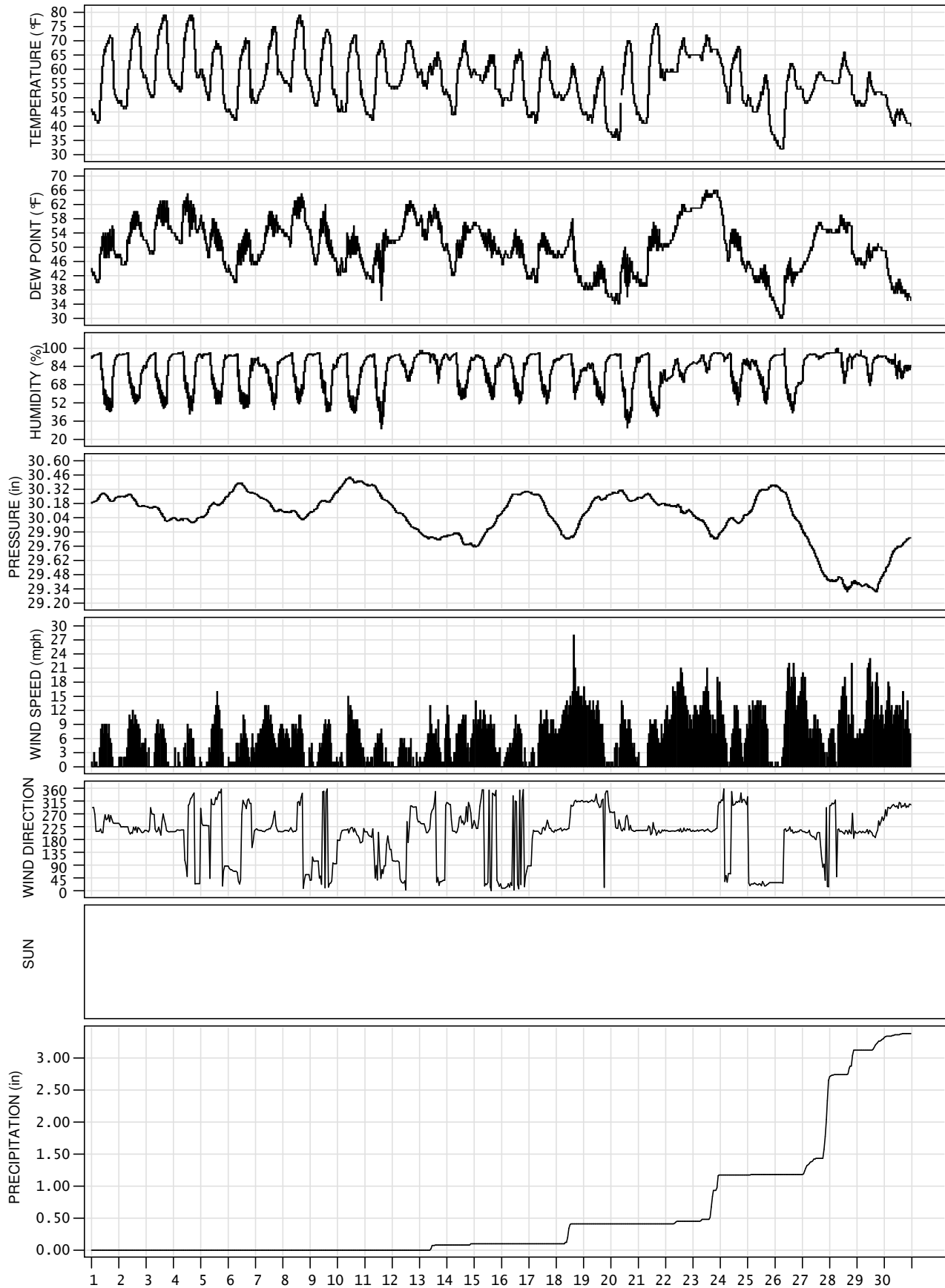
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01		30.053	51	49	91	1.3	25	0.8
04		30.054	50	47	92	1.1	25	0.8
07		30.073	48	46	93	1.1	22	0.8
10		30.085	59	52	78	2.4	22	1.7
13		30.059	65	53	66	2.5	26	1.7
16		30.020	67	53	61	2.4	27	1.4
19		30.024	59	52	78	0.7	23	0.6
22		30.041	52	49	88	0.7	24	0.5

HOURLY PRECIPITATION (Water Equivalent) September 2009: Westford

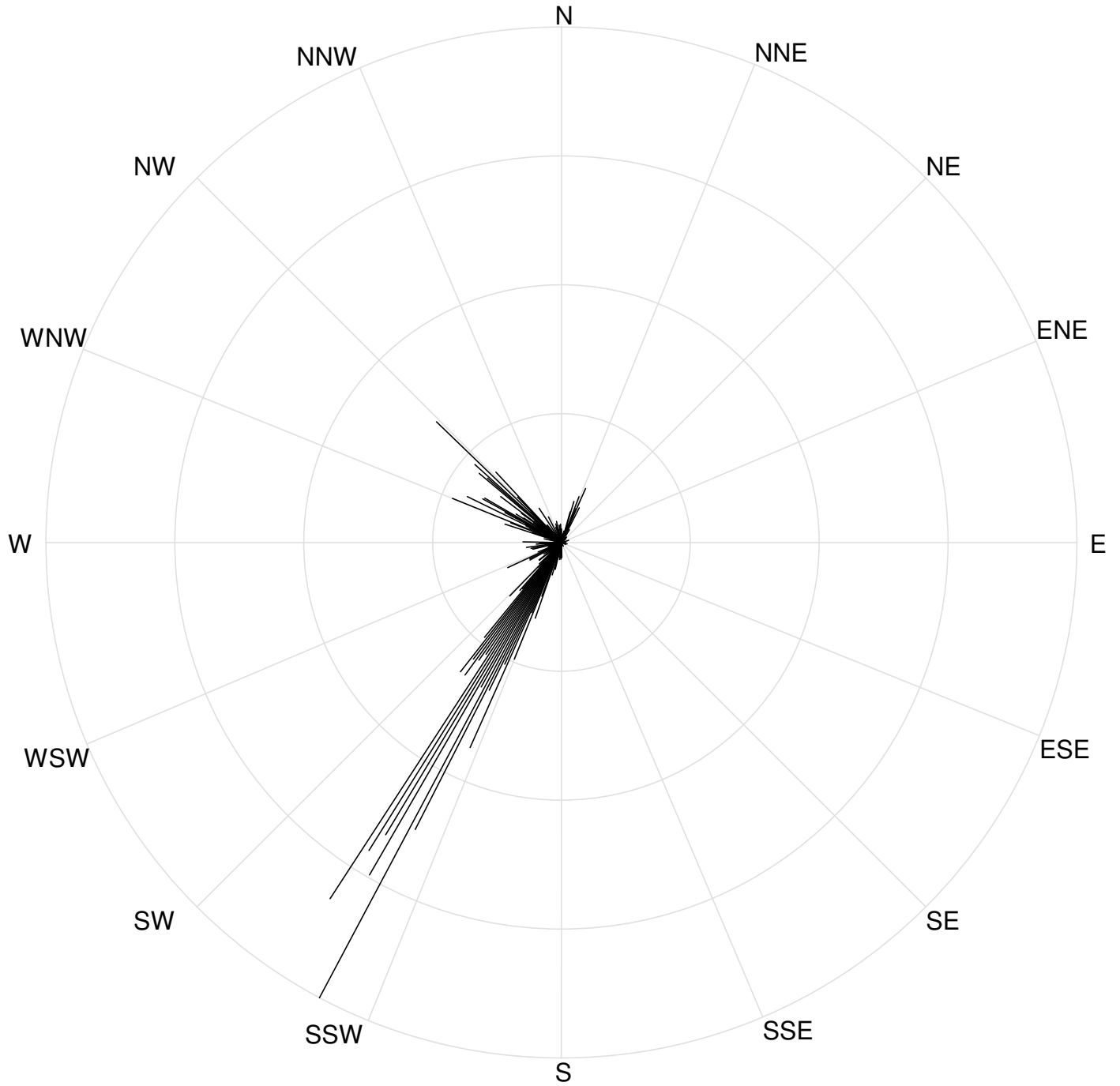
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01																								01	
02																									02
03																									03
04																									04
05																									05
06																									06
07																									07
08																									08
09																									09
10																									10
11																									11
12																									12
13											0.02	0.05		0.01											13
14																				0.02					14
15																									15
16																									16
17																									17
18								0.02		0.08	0.14	0.06	0.01												18
19																									19
20																									20
21																									21
22								0.01	0.01	0.02	0.01														22
23								0.02							0.03	0.16	0.17	0.09			0.04	0.19	0.01		23
24																									24
25			0.01																						25
26																									26
27	0.01	0.04	0.05	0.04	0.01	0.02	0.02	0.01	0.01	0.03		0.01						0.14	0.20	0.27	0.29	0.32	0.06	27	
28	0.01	0.01		0.01															0.17	0.08					28
29														0.01	0.03	0.04	0.02	0.03	0.02	0.01	0.02	0.01	0.02		29
30	0.01	0.01					0.01		0.01					0.01		0.01		0.02	0.02	0.02					30
Sum	0.03	0.06	0.06	0.05	0.01	0.02	0.04	0.06	0.04	0.14	0.19	0.07	0.01	0.03	0.06	0.22	0.28	0.14	0.16	0.37	0.42	0.50	0.34	0.08	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 2009: Westford



Wind Rose: September 2009
Westford



Maximum direction of wind: 65.3 miles from 208°.
1027.0 total miles of wind.