

# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary

### October 2015

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 Speed	Res Speed	Res Dir	Peak		2 Minute		
																				Speed		Dir	Speed	Dir
1	2	3	4A	4B	5	6	7	8		11	12	13	14	15	16	17	18	19	20	21	22	23		
1	55.8	38.5	47.1	45.5	41	84	17	0	.....	0	0.00	0.0	30.35	30.14	30.258	0.1	0.1	22	15	NNW	7	33	140	
2	51.1	33.2	42.1	41.8	36	80	23	0	.....	0	0.00	0.0	30.46	30.32	30.394	0.3	0.3	24	19	N	8	31	116	
3	56.4	29.8	43.1	41.1	35	81	22	0	.....	0	0.00	0.0	30.52	30.44	30.474	0.2	0.2	38	16	N	8	30	157	
4	59.6	31.4	45.5	43.0	36	81	19	0	.....	0	0.00	0.0	30.47	30.26	30.389	0.0	0.0	0	0	NNE	0	34	143	
5	60.0	32.4	46.2	45.8	39	80	19	0	.....	0	0.00	0.0	30.27	30.09	30.189	0.0	0.0	230	5	S	2	218	111	
6	58.7	42.2	50.5	50.4	47	89	14	0	.....	0	0.00	0.0	30.09	29.93	30.003	0.0	0.0	286	6	WNW	2	289	65	
7	65.2	47.4	56.3	53.8	49	84	9	0	.....	0	0.00	0.0	30.03	29.89	29.922	0.8	0.6	262	18	WNW	8	292	92	
8	56.5	32.1	44.3	42.6	37	81	20	0	.....	0	0.00	0.0	30.16	30.03	30.101	0.2	0.2	295	12	W	8	306	149	
9	56.7	36.7	46.7	45.7	45	97	18	0	.....	0	0.72	0.0	30.05	29.64	29.815	1.5	1.0	248	21	W	10	211	19	
10	51.3	35.9	43.6	42.3	37	82	21	0	.....	0	0.00	0.0	30.13	29.92	30.019	0.6	0.5	300	14	WNW	8	303	134	
11	63.4	40.6	52.0	51.1	43	74	13	0	.....	0	T	0.0	29.95	29.67	29.774	2.2	2.2	212	20	SSW	10	214	104	
12	73.5*	51.4	62.5*	60.4	48	65	2	0	.....	0	0.00	0.0	29.72	29.56	29.664	2.4	2.4	211	23	S	10	217	132	
13	65.1	51.2	58.1	56.4	50	80	7	0	.....	0	0.13	0.0	29.56	29.34	29.428	2.0	2.0	214	25	S	13	204	59	
14	52.7	32.6	42.6	47.4	44	88	22	0	.....	0	0.07	0.0	29.80	29.41	29.593	2.0	1.5	249	14	SW	8	306	35	
15	58.9	29.4	44.2	43.6	38	81	21	0	.....	0	0.06	0.0	29.87	29.71	29.804	2.8	2.8	216	18	SSW	10	288	118	
16	49.1	34.6	41.8	42.9	40	90	23	0	.....	0	0.16	0.0	29.92	29.68	29.818	1.8	1.5	258	19	W	9	254	49	
17	41.1	29.2	35.1	35.9	34	91	30	0	.....	0	0.15	T	30.14	29.84	29.977	1.0	0.9	279	21	WSW	11	261	54	
18	37.7	23.9	30.8*	29.6	25	85	34	0	.....	T	T	0.3	30.34	30.13	30.229	0.5	0.5	319	20	NW	9	300	87	
19	44.4	17.8*	31.1	32.1	24	73	34	0	.....	0	0.05	0.0	30.39	30.00	30.244	2.6	2.6	207	27	S	12	204	113	
20	59.6	39.4	49.5	49.3	42	77	15	0	.....	0	0.03	0.0	30.14	29.96	30.010	5.3	5.0	216	26	SW	13	207	49	
21	52.9	39.9	46.4	45.8	33	61	18	0	.....	0	0.01	0.0	30.31	30.13	30.231	0.2	0.1	274	12	S	5	295	75	
22	64.8	43.6	54.2	54.7	46	74	10	0	.....	0	0.10	0.0	30.14	29.86	29.976	4.5	3.8	229	28	S	15	210	64	
23	43.6	26.3	34.9	35.6	29	76	30	0	.....	0	T	T	30.37	30.05	30.239	0.8	0.8	327	21	N	10	314	44	
24	49.1	24.4	36.7	38.0	30	75	28	0	.....	0	0.00	0.0	30.37	29.95	30.212	3.7	3.7	203	33	SSW	14	210	85	
25	53.9	39.0	46.5	45.9	42	87	18	0	.....	0	0.22	0.0	30.23	29.81	29.977	6.0	4.5	221	37	S	17	205	27	
26	45.9	26.0	36.0	36.5	31	80	29	0	.....	0	0.00	0.0	30.51	30.23	30.400	0.1	0.1	332	10	WNW	4	312	106	
27	50.1	23.6	36.8	34.4	27	78	28	0	.....	0	0.02	0.0	30.58	30.48	30.516	0.1	0.1	220	7	SSW	5	238	94	
28	51.4	28.0	39.7	39.8	36	88	25	0	.....	0	0.48	0.0	30.49	29.63	30.168	2.8	2.8	181	27	SE	12	176	22	
29	60.9	41.9	51.4	51.8	47	85	13	0	.....	0	0.78	0.0	29.63	29.34	29.428	4.1	3.4	243	28	NW	15	275	40	
30	46.0	30.7	38.4	39.4	32	74	26	0	.....	0	0.02	0.0	30.11	29.49	29.814	4.1	3.7	292	32	WNW	17	301	53	
31	46.2	25.2	35.7	35.7	28	76	29	0	.....	0	0.00	0.0	30.18	29.96	30.097	0.2	0.2	204	8	SW	4	217	82	
<b>Sum</b>	<b>Sum</b>	-----	-----	---	----		<b>Ttl</b>	<b>Ttl</b>					<b>Total</b>	<b>Total</b>	<b>For the month:</b>					---				
	1682	1058					637	0	<b>Number of Days</b>				3.00	0.3	30.58	29.34	30.038	1.7	1.3	230	37	S	17	205
<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>		
	54.2	34.1	44.2	43.8	38	80.6	----	----	≥.01 inch	15			36.00	0.3	27	29	-----	----	----	---	25	25	84	
<b>Number of Days</b>							<b>Season to Date</b>	<b>Snow, Ice ≥1.0 inch</b>	0	<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>			795	401	<b>Thunder</b>	0	<b>Precipitation</b>		<b>Snow, Ice Plts</b>												
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----			<b>Heavy Fog</b>	1	1.22	28-29	0.3	18	T			18							
0	0	15	0	----	----			<b>Clear</b>	3	<b>Partly Cloudy</b>		12	<b>Cloudy</b>		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: 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

## October 2015: 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								
OCT 01										OCT 02										OCT 03									
01	0	30.14	0.00	44	42	93	02	0	0	0	30.33	0.00	39	37	92	02	0	0	0	30.46	0.00	32	31	93	03	0	0		
04	0	30.17	0.00	43	41	92	36	0	1	0	30.33	0.00	36	35	94	04	0	0	0	30.46	0.00	31	30	95	03	0	0		
07	7	30.21	0.00	40	38	94	02	0	0	5	30.36	0.00	34	33	96	06	0	0	5	30.49	0.00	31	30	97	05	0	0		
10	209	30.27	0.00	45	41	86	09	0	0	229	30.40	0.00	45	38	78	01	0	0	415	30.51	0.00	44	38	78	14	0	7		
13	559	30.28	0.00	54	44	71	01	3	13	260	30.40	0.00	50	37	60	34	1	10	650	30.50	0.00	53	38	57	07	0	1		
16	220	30.29	0.00	51	41	68	04	0	0	162	30.40	0.00	49	36	60	00	3	14	309	30.45	0.00	56	38	51	03	0	5		
19	0	30.32	0.00	46	41	83	02	0	0	0	30.44	0.00	43	36	75	03	0	0	0	30.46	0.00	43	38	82	03	0	0		
22	0	30.34	0.00	40	38	92	03	0	0	0	30.45	0.00	39	35	86	02	0	0	0	30.48	0.00	36	35	95	03	0	0		
OCT 04										OCT 05										OCT 06									
01	0	30.47	0.00	35	34	96	03	0	0	0	30.27	0.00	37	35	93	03	0	0	0	30.08	0.00	45	44	96	06	0	0		
04	0	30.45	0.00	33	32	96	03	0	0	0	30.25	0.00	36	33	89	03	0	0	0	30.04	0.00	45	43	96	06	0	0		
07	9	30.45	0.00	32	31	97	03	0	0	5	30.25	0.00	33	31	95	03	0	0	0	30.03	0.00	47	46	97	06	0	0		
10	260	30.45	0.00	48	41	76	08	0	0	378	30.24	0.00	49	40	70	21	0	1	127	30.03	0.00	52	49	92	30	0	1		
13	501	30.40	0.00	56	38	51	00	0	0	322	30.19	0.00	57	42	58	26	0	2	274	30.01	0.00	55	48	78	30	0	0		
16	276	30.32	0.00	60	38	44	07	0	0	192	30.13	0.00	59	43	56	06	0	0	257	29.96	0.00	58	48	70	29	0	0		
19	0	30.31	0.00	42	39	88	03	0	0	0	30.12	0.00	51	45	82	06	0	0	0	29.95	0.00	52	49	89	29	0	0		
22	0	30.29	0.00	37	36	94	03	0	0	0	30.10	0.00	46	44	93	06	0	0	0	29.94	0.00	50	48	94	29	0	0		
OCT 07										OCT 08										OCT 09									
01	0	29.92	0.00	49	48	96	29	0	0	0	30.04	0.00	44	38	78	02	0	1	0	30.02	0.00	39	38	96	13	0	0		
04	0	29.90	0.00	50	49	96	29	0	0	0	30.07	0.00	35	33	95	03	0	0	0	29.94	0.00	37	37	97	13	0	0		
07	0	29.90	0.00	48	47	95	19	0	0	0	30.12	0.00	32	31	96	03	0	0	0	29.83	0.10	46	46	97	14	1	8		
10	220	29.92	0.00	55	51	87	21	0	8	388	30.15	0.00	48	40	73	35	0	0	35	29.75	0.00	47	46	98	19	1	8		
13	236	29.90	0.00	62	51	68	28	4	12	592	30.14	0.00	52	38	59	27	2	7	67	29.67	0.00	55	54	98	21	7	13		
16	98	29.90	0.00	58	50	73	30	0	4	309	30.10	0.00	56	40	54	34	0	2	37	29.65	0.04	56	56	97	23	2	10		
19	0	29.93	0.00	52	47	83	29	0	2	0	30.10	0.00	39	36	90	07	0	0	0	29.79	0.00	43	43	97	29	1	14		
22	0	29.98	0.00	53	48	83	02	0	2	0	30.10	0.00	37	36	96	07	0	0	0	29.88	0.00	44	43	97	31	0	9		
OCT 10										OCT 11										OCT 12									
01	0	29.93	0.00	43	42	95	29	3	10	0	29.93	0.00	42	38	87	20	0	5	0	29.72	0.00	55	47	74	21	3	9		
04	0	29.97	0.00	42	41	95	31	1	5	0	29.87	0.00	43	37	79	21	1	9	0	29.70	0.00	52	45	79	20	1	8		
07	0	30.06	0.00	39	37	93	01	1	5	0	29.83	0.00	44	38	79	20	2	11	0	29.71	0.00	52	45	77	20	5	14		
10	125	30.13	0.00	39	34	81	00	1	5	153	29.79	0.00	50	41	72	19	5	11	348	29.72	0.00	62	49	63	21	4	13		
13	547	30.09	0.00	47	32	56	25	1	10	241	29.75	0.00	57	45	64	22	3	16	513	29.68	0.00	70	51	52	21	2	15		
16	285	30.01	0.00	51	36	58	26	0	7	283	29.67	0.00	62	48	60	25	0	11	276	29.62	0.00	73	51	46	19	0	12		
19	0	29.98	0.00	37	35	90	20	0	0	0	29.69	0.00	55	48	77	21	0	0	0	29.60	0.00	63	48	58	19	0	9		
22	0	29.97	0.00	36	35	96	20	0	0	0	29.71	0.00	51	46	84	20	0	5	0	29.60	0.00	59	47	64	19	0	4		
OCT 13										OCT 14										OCT 15									
01	0	29.55	0.00	55	46	71	21	0	0	0	29.42	0.00	51	50	95	20	3	12	0	29.81	0.00	33	31	95	31	0	0		
04	0	29.49	0.00	54	46	74	20	0	0	0	29.42	0.00	52	50	94	22	3	10	0	29.81	0.00	31	30	96	31	0	0		
07	0	29.45	0.00	54	47	76	21	3	8	0	29.46	0.00	52	50	91	19	4	9	0	29.85	0.00	31	30	97	25	0	0		
10	155	29.40	0.00	59	49	70	21	4	9	62	29.55	0.08	47	46	95	32	4	13	350	29.87	0.00	45	39	81	20	7	13		
13	171	29.37	0.00	63	53	72	21	3	12	93	29.63	0.00	48	44	86	30	1	10	515	29.83	0.00	55	40	57	21	5	13		
16	79	29.35	0.00	60	56	89	21	0	4	95	29.68	0.00	47	41	80	30	0	0	91	29.78	0.00	55	42	62	21	6	13		
19	0	29.38	0.05	52	50	93	20	0	7	0	29.73	0.00	44	39	84	31	0	0	0	29.77	0.00	47	42	84	20	2	7		
22	0	29.42	0.00	51	50	95	22	0	5	0	29.79	0.00	39	33	79	31	0	5	0	29.77	0.00	51	42	73	27	7	18		
OCT 16										OCT 17										OCT 18									
01	0	29.70	0.00	46	44	94	21	3	11	0	29.84	0.06	39	38	97	20	1	6	0	30.14	0.00	27	25	92	02	0	0		
04	0	29.70	0.00	47	43	86	22	5	11	0	29.84	0.00	40	39	96	21	0	0	0	30.14	0.00	25	23	95	02	0	0		
07	0	29.76	0.00	43	40	90	28	5	16	0	29.87	0.00	40	36	88	25	4	15	0	30.18	0.00	28	27	95	30	0	0		
10	51	29.83	0.00	43	40	88	30	1	10	56	29.96	0.00	35	34	96	29	0	6	47	30.24	0.00	32	26	79	33	1	9		
13	63	29.86	0.00	46	40	79	34	0	11	70	30.01	0.00	33	32	95	02	0	0	188	30.23	0.00	36	23	58	32	3	9		
16	301	29.88	0.00	45	43	92	30	0	0	86	30.02	0.00	34	32	92	31	1	6	37	30.24	0.00	33	25	72	35	0	9		
19	0	29.91	0.00	36	35	95	30	0	0	0	30.08	0.00	34	30	85	31	2	11	0	30.29	0.00	30	27	90	30	0	0		
22	0	29.88	0.00	36	35	96	30	0	0	0	30.13	0.00	30	25	84	02	0	1	0	30.33	0.00	28	24	85	31	0	4		

### MAXIMUM SHORT DURATION PRECIPITATION

<b>Time Period (minutes)</b>	5	10	15	20	30	45	60	80	100	120	150	180
<b>Precipitation</b>	0.44	0.44	0.44	0.44	0.44	0.44	0.45	0.45	0.46	0.46	0.46	0.50
<b>Ended: Date</b>	29	29	29	29	29	29	29	29	29	29	29	09
<b>Ended: Time</b>	1559	1559	1559	1559	1559	1559	1559	1559	1559	1559	1559	0913

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

## October 2015: 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						
OCT 19									OCT 20									OCT 21									
01	0	30.34	0.00	22	20	90	30	0	0	0	30.00	0.00	44	31	60	20	7	16	0	30.15	0.00	48	35	61	04	0	2
04	0	30.36	0.00	21	18	88	30	0	0	0	29.96	0.00	41	37	85	20	10	24	0	30.20	0.00	44	29	56	03	0	1
07	0	30.38	0.00	18	16	93	30	0	0	0	29.97	0.00	42	40	93	20	8	15	0	30.25	0.00	40	29	65	00	0	0
10	290	30.38	0.00	32	25	76	21	1	6	76	29.99	0.00	46	41	83	21	8	18	315	30.31	0.00	48	29	48	03	0	0
13	489	30.29	0.00	39	26	60	17	1	13	264	29.98	0.00	55	45	68	21	8	13	362	30.28	0.00	51	30	45	29	1	4
16	223	30.14	0.00	43	26	51	21	6	14	74	29.99	0.00	59	48	67	24	1	8	32	30.25	0.00	48	34	58	28	2	5
19	0	30.06	0.00	41	28	61	20	2	15	0	30.05	0.00	55	47	74	25	4	12	0	30.24	0.00	45	37	72	26	0	0
22	0	30.03	0.00	40	33	76	19	9	20	0	30.10	0.00	53	47	79	32	0	2	0	30.19	0.00	43	41	91	26	0	0
OCT 22									OCT 23									OCT 24									
01	0	30.11	0.00	48	43	83	21	0	7	0	30.08	0.00	40	33	75	31	2	10	0	30.34	0.00	27	25	94	03	0	0
04	0	30.05	0.00	54	49	82	21	9	18	0	30.11	0.00	36	28	73	30	3	9	0	30.32	0.00	25	24	95	03	0	0
07	0	30.00	0.00	52	50	94	19	3	11	0	30.17	0.00	36	30	79	31	0	16	0	30.31	0.00	29	27	91	19	0	1
10	113	29.94	0.00	56	50	81	19	7	20	81	30.24	0.00	37	28	72	32	0	0	160	30.28	0.00	39	32	74	19	5	11
13	527	29.90	0.00	63	52	68	21	7	16	183	30.29	0.00	39	29	67	02	1	16	241	30.21	0.00	48	33	56	19	3	19
16	60	29.88	0.00	64	47	55	25	6	19	165	30.30	0.00	41	30	64	03	0	6	44	30.16	0.00	46	33	61	19	2	16
19	0	29.96	0.00	55	40	57	28	5	13	0	30.31	0.00	32	27	83	03	0	0	0	30.11	0.00	44	33	65	19	5	13
22	0	30.00	0.00	50	38	62	32	1	8	0	30.36	0.00	27	25	93	03	0	0	0	30.04	0.00	46	36	69	20	11	33
OCT 25									OCT 26									OCT 27									
01	0	29.93	0.00	45	41	83	20	7	26	0	30.24	0.00	39	34	83	32	0	0	0	30.52	0.00	28	27	95	04	0	0
04	0	29.85	0.00	46	44	93	19	12	28	0	30.30	0.00	37	34	88	03	0	0	0	30.50	0.00	26	25	95	04	0	0
07	0	29.81	0.00	47	45	93	20	9	23	0	30.36	0.00	32	30	92	05	0	0	0	30.53	0.00	25	24	95	04	0	0
10	54	29.87	0.00	50	48	93	21	8	16	387	30.44	0.00	39	33	79	00	0	0	287	30.57	0.00	35	32	92	04	0	0
13	114	29.94	0.00	48	46	93	30	5	15	548	30.44	0.00	43	32	65	02	0	5	346	30.54	0.00	47	30	50	21	2	7
16	49	30.04	0.00	45	40	84	35	1	16	204	30.42	0.00	45	31	56	33	1	5	155	30.49	0.00	49	25	39	29	0	0
19	0	30.13	0.00	44	37	76	30	8	16	0	30.45	0.00	31	27	84	04	0	0	0	30.49	0.00	35	27	73	25	0	0
22	0	30.21	0.00	41	35	79	31	0	0	0	30.49	0.00	27	25	93	04	0	0	0	30.49	0.00	31	28	87	25	0	0
OCT 28									OCT 29									OCT 30									
01	0	30.49	0.00	30	26	87	25	0	0	0	29.54	0.00	52	50	95	17	5	13	0	29.49	0.00	44	36	74	23	5	13
04	0	30.44	0.00	29	26	91	25	0	0	0	29.40	0.00	54	53	96	20	0	6	0	29.52	0.00	46	39	76	25	5	12
07	0	30.37	0.00	30	29	94	25	0	0	0	29.40	0.00	56	55	97	20	4	10	0	29.68	0.00	39	34	81	29	13	26
10	111	30.29	0.00	46	37	72	15	3	21	14	29.40	0.00	58	57	97	26	8	16	162	29.81	0.00	39	31	73	29	3	15
13	74	30.24	0.00	44	40	86	15	2	9	28	29.34	0.00	59	54	84	26	2	10	200	29.89	0.00	39	30	70	28	9	21
16	12	30.02	0.00	43	40	91	17	5	18	102	29.40	0.33	50	38	64	25	7	26	116	29.93	0.00	43	28	57	30	4	13
19	0	29.88	0.08	47	44	91	18	7	19	0	29.44	0.00	48	35	60	26	7	15	0	30.00	0.00	35	27	73	26	0	0
22	0	29.75	0.04	49	46	90	17	2	19	0	29.49	0.00	43	36	76	25	3	15	0	30.07	0.00	32	27	82	27	0	0
OCT 31																											
01	0	30.09	0.00	28	26	90	27	0	0																		
04	0	30.11	0.00	26	24	92	27	0	0																		
07	0	30.15	0.00	28	26	92	27	0	0																		
10	278	30.17	0.00	38	30	74	18	0	0																		
13	237	30.13	0.00	45	31	56	17	2	7																		
16	114	30.09	0.00	45	31	58	26	0	4																		
19	0	30.05	0.00	38	31	75	19	0	0																		
22	0	30.01	0.00	39	31	72	19	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

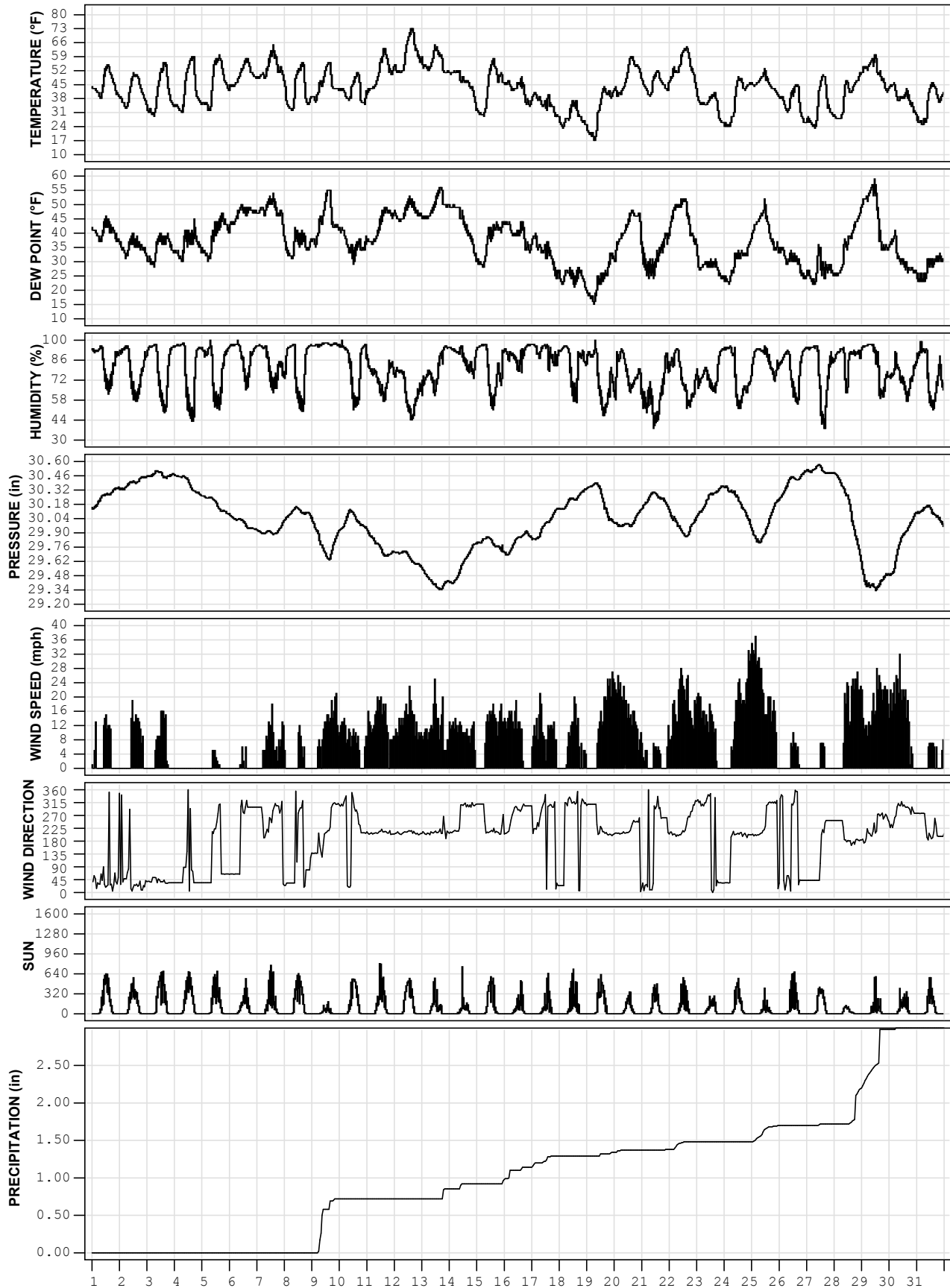
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01	0	30.034	40	37	87	1.3	21	1.0
04	0	30.021	39	36	89	1.5	22	1.4
07	1	30.038	39	36	91	2.0	23	1.5
10	191	30.061	45	39	80	2.3	22	1.8
13	306	30.046	51	40	67	2.5	25	1.6
16	153	30.018	51	39	65	1.6	25	1.0
19	0	30.034	44	38	80	1.4	25	1.0
22	0	30.044	41	37	85	1.1	23	0.8

## HOURLY PRECIPITATION (Water Equivalent) October 2015: Westford

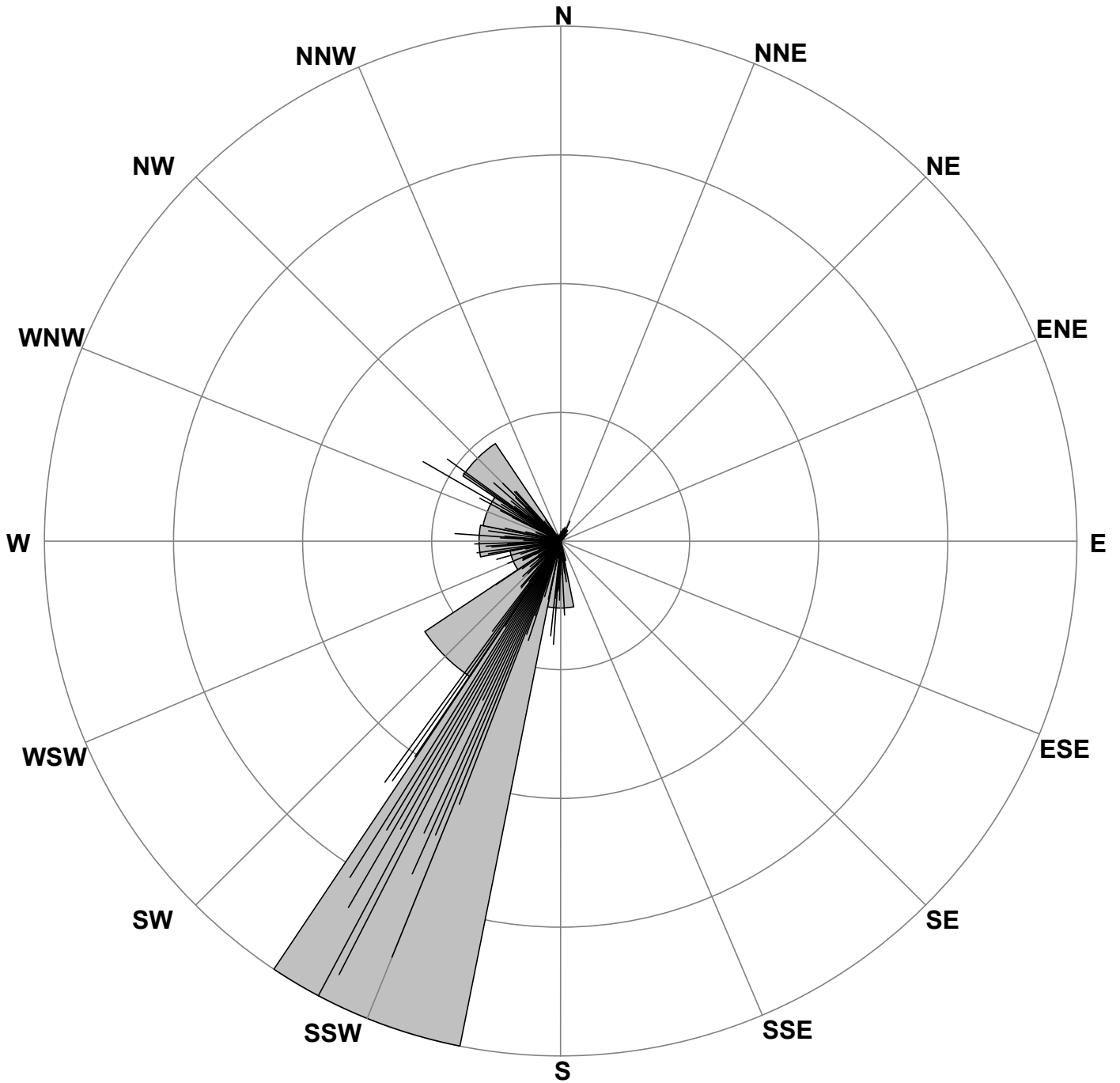
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01																								01	
02																									02
03																									03
04																									04
05																									05
06																									06
07																									07
08																									08
09						0.02	0.15	0.09	0.24	0.08					0.11			0.01	0.02						09
10																									10
11																									11
12																									12
13																		0.12	0.01						13
14									0.05	0.02															14
15																						0.04	0.02		15
16	0.01			0.01	0.10																				16
17	0.02	0.02	0.02							0.01	0.01		0.02	0.04	0.02	0.02	0.01								17
18																									18
19												0.03								0.01	0.01				19
20			0.02			0.01																			20
21																				0.01					21
22					0.02	0.02	0.02	0.01	0.01		0.01		0.01												22
23																									23
24																									24
25		0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.03	0.03	0.01	0.01	0.01	0.01			0.01				0.01		25	
26																									26
27										0.01	0.01														27
28														0.01	0.01	0.02	0.01	0.01	0.32	0.02	0.03	0.03	0.01	0.01	28
29	0.03	0.03	0.04	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.45									29
30						0.02																			30
31																									31
<b>Sum</b>	0.06	0.06	0.09	0.05	0.16	0.11	0.20	0.13	0.29	0.19	0.10	0.07	0.05	0.07	0.05	0.60	0.02	0.01	0.46	0.05	0.05	0.04	0.06	0.03	<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.)

# HOURLY-BY-HOURLY DATA October 2015: Westford



**Wind Rose: October 2015  
Westford**



**Maximum direction of wind: 62.3 miles from 208°  
Maximum sector of wind: 596.3 miles from SSW  
1277.3 total miles of wind**