

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

October 2012

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		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	55.7	49.2	52.5	52.4	51	95	12	0	.....	0	0.78	0.0	29.87	29.50	29.661	1.6	1.5	223	17	SW	8	210	35
2	63.6	51.1	57.3	56.2	53	89	7	0	.....	0	0.01	0.0	30.01	29.87	29.948	0.7	0.7	211	16	SW	7	215	69
3	65.3	52.7	59.0	59.5	58	95	6	0	.....	0	0.08	0.0	30.09	30.00	30.038	0.0	0.0	94	6	E	1	98	48
4	65.1	53.3	59.2	61.1	60	97	6	0	..3.....	0	0.44	0.0	30.09	29.95	30.032	0.2	0.1	248	9	NW	6	296	26	
5	72.3*	52.7	62.5*	61.3	57	86	2	0	.....	0	0.02	0.0	29.96	29.81	29.890	1.7	1.7	212	17	SW	9	213	106
6	60.3	45.9	53.1	51.4	48	89	12	0	.....	0	0.55	0.0	29.88	29.64	29.750	1.0	0.8	257	21	SW	9	253	25
7	52.7	41.0	46.9	45.2	38	77	18	0	.....	0	0.09	0.0	30.05	29.89	29.983	0.8	0.7	261	14	W	7	278	80
8	55.1	36.0	45.5	43.9	37	78	19	0	.....	0	0.07	0.0	30.27	30.05	30.174	0.4	0.3	273	9	S	5	300	139
9	58.0	31.2	44.6	45.0	38	78	20	0	.....	0	0.01	0.0	30.27	30.04	30.190	1.1	1.1	201	16	WSW	9	221	122
10	55.2	43.1	49.1	49.2	45	85	16	0	.....	0	0.33	0.0	30.05	29.66	29.837	1.7	1.4	219	22	W	11	242	44
11	52.8	39.3	46.0	45.0	33	64	19	0	.....	0	0.01	0.0	30.01	29.76	29.934	2.7	2.5	265	24	W	12	308	116
12	46.7	29.4	38.1*	39.4	29	68	27	0	.....	0	0.12	T	30.36	29.87	30.113	2.2	1.6	280	21	WNW	10	317	67
13	50.5	26.9*	38.7	38.1	26	64	26	0	.....	0	0.00	0.0	30.42	30.18	30.326	0.9	0.8	230	23	SSW	11	216	141
14	59.0	36.6	47.8	46.8	43	87	17	0	.....	0	0.32	0.0	30.19	29.73	29.937	5.0	5.0	204	29	WSW	14	212	16
15	67.4	51.6	59.5	59.2	51	73	5	0	.....	0	0.02	0.0	29.73	29.51	29.582	5.3	4.7	215	30	S	14	201	68
16	52.8	33.1	42.9	42.5	34	72	22	0	.....	0	0.00	0.0	29.86	29.55	29.702	2.8	2.8	296	21	NW	11	289	33
17	59.0	30.5	44.8	43.4	34	71	20	0	.....	0	0.00	0.0	29.96	29.86	29.920	0.3	0.3	215	8	SW	4	208	128
18	68.6	41.8	55.2	54.9	37	53	9	0	.....	0	0.00	0.0	29.97	29.88	29.930	2.0	1.9	199	17	S	8	214	123
19	57.8	51.9	54.9	54.7	49	83	10	0	.....	0	1.60	0.0	29.95	29.64	29.818	1.9	1.9	179	21	ESE	10	177	24
20	69.4	41.9	55.7	57.1	52	86	9	0	..3.....	0	0.08	0.0	29.66	29.53	29.596	1.7	1.5	234	23	NW	13	310	91	
21	54.6	40.6	47.6	47.9	41	79	17	0	.....	0	0.01	0.0	29.87	29.66	29.760	3.6	3.3	248	24	W	15	287	35
22	58.1	41.7	49.9	48.9	40	72	15	0	.....	0	0.00	0.0	30.01	29.86	29.934	1.7	1.7	317	19	NW	10	304	91
23	55.3	35.2	45.3	44.6	38	79	20	0	.....	0	0.00	0.0	30.14	30.01	30.085	0.1	0.1	348	8	N	5	27	105
24	59.6	29.8	44.7	43.2	33	71	20	0	.....	0	0.01	0.0	30.20	30.11	30.159	0.0	0.0	44	10	NNE	3	24	114
25	64.4	37.1	50.8	50.5	40	68	14	0	.....	0	0.00	0.0	30.20	30.11	30.157	2.6	2.6	205	20	SSW	11	220	69
26	61.9	51.5	56.7	55.4	49	80	8	0	.....	0	0.00	0.0	30.12	30.03	30.083	5.9	5.8	210	21	S	12	221	93
27	66.2	47.1	56.6	56.4	51	82	8	0	.2.....	0	0.00	0.0	30.07	29.92	29.993	0.7	0.6	208	18	SSW	8	203	77	
28	59.2	47.8	53.5	52.2	48	86	11	0	.....	0	0.00	0.0	29.99	29.84	29.926	0.3	0.2	324	9	NNE	5	293	62
29	62.3	46.7	54.5	54.2	47	78	10	0	.....	0	0.03	0.0	29.85	29.29	29.613	2.6	2.5	41	30	ENE	13	52	37
30	67.9	54.0	61.0	59.8	53	79	4	0	.....	0	0.67	0.0	29.49	29.29	29.418	1.0	0.5	127	20	N	8	37	59
31	54.0	43.0	48.5	47.7	44	86	16	0	.....	0	0.16	0.0	29.46	29.36	29.417	2.0	2.0	212	22	SSW	12	222	37
Sum	Sum	-----	-----	---	----		Ttl	Ttl	Number of Days				For the month:										---	
1851	1314						425	0				5.41	T	30.42	29.29	29.900	1.8	1.2	227	30	S	15	287	
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip		Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg			
59.7	42.4	51.0	50.6	44	79.0	----	----		≥.01 inch	21	37.33	T	13	29	-----	----	----	---	15+	21	73			
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			654	461	Thunder	2	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----			Heavy Fog	1	1.61	19-20	T	12	0					-					
0	0	5	0	----	----			Clear	0	Partly Cloudy		12	Cloudy		19									

NOTES:

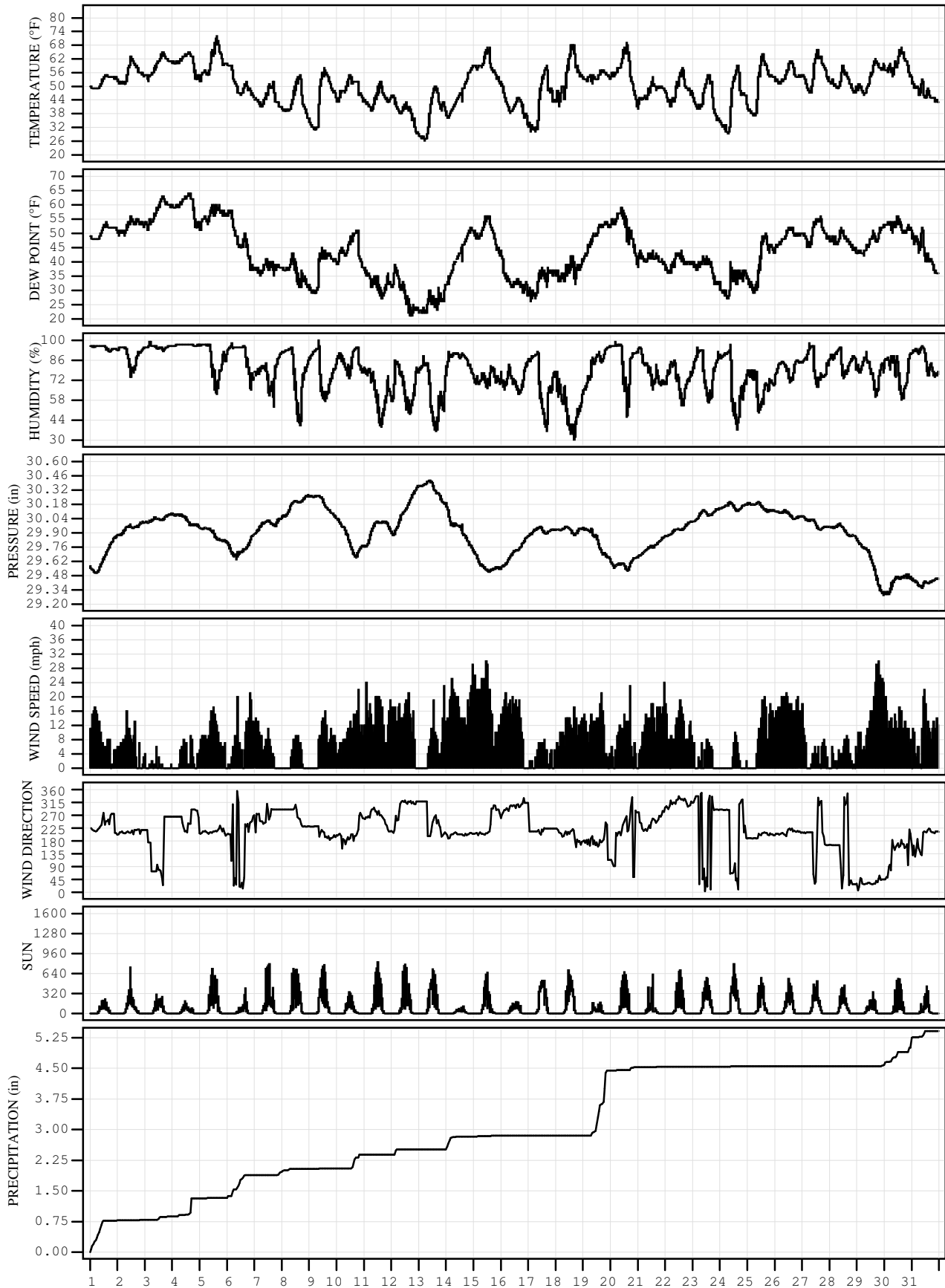
Units are: Temperature=°F, Wind=mph, Pressure=Inches Hg, Precipitation=inches.
 Data in column 4A are (MAX+MIN) ÷ 2, whereas columns 4B, 5, 6, 15, 16, 23 are means via continuous observations for 24 hours.
 Column 5: Dew point is calculated from temperature and humidity and is continuously averaged for 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.

HOURLY PRECIPITATION (Water Equivalent) October 2012: Westford

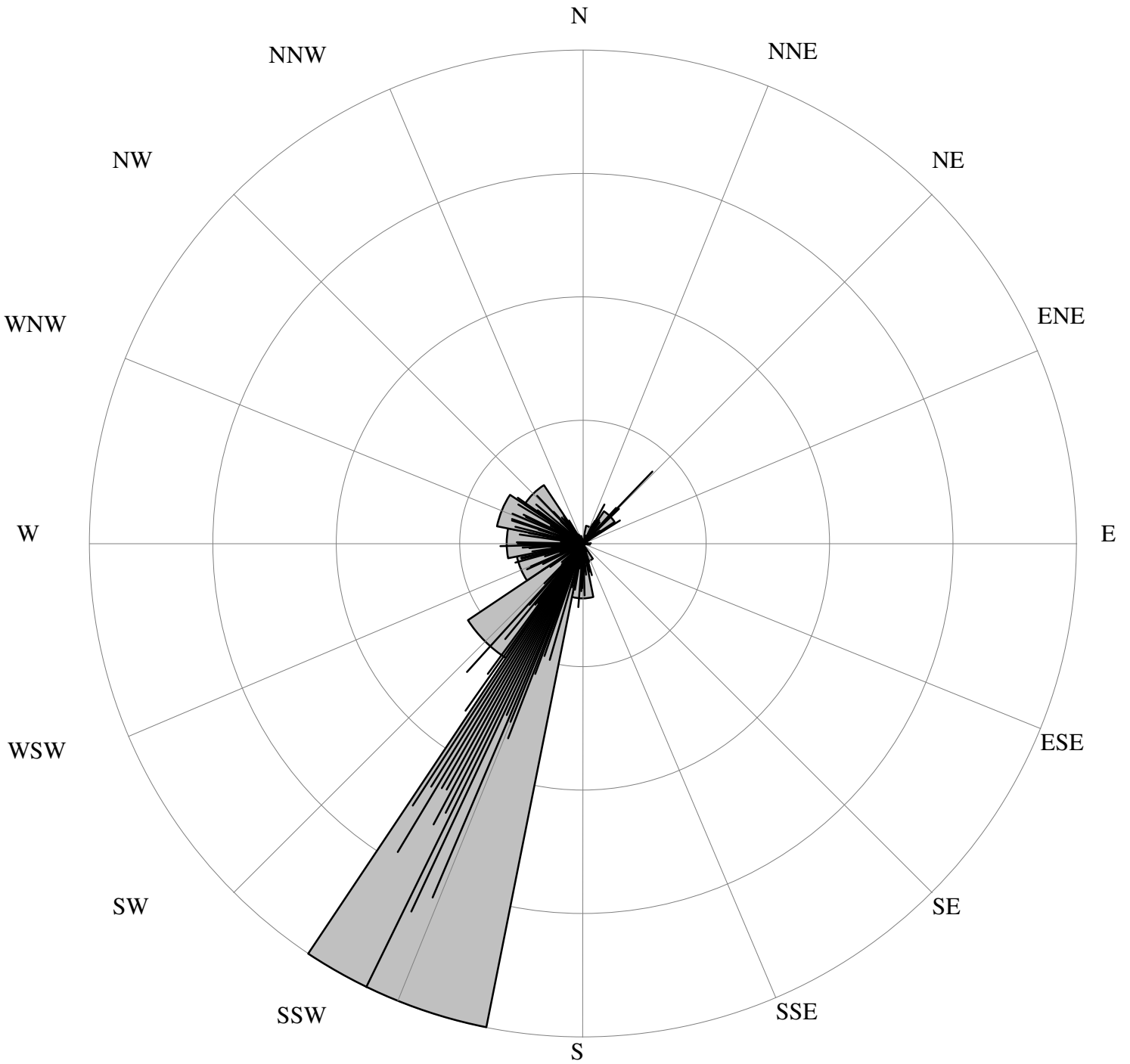
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date	
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12		
01	0.07	0.08	0.05	0.05	0.04	0.06	0.07	0.07	0.08	0.11	0.07	0.02												0.01	01	
02																				0.01						02
03												0.02	0.04	0.01						0.01						03
04						0.04						0.01	0.01	0.01	0.04	0.34										04
05	0.01							0.01																		05
06	0.04				0.12	0.05			0.03	0.06	0.06	0.08	0.02	0.02	0.06	0.01										06
07																					0.01	0.04	0.02	0.02		07
08	0.02	0.01					0.01	0.02	0.01																	08
09										0.01																09
10														0.03	0.09	0.10	0.04			0.07						10
11																										11
12				0.10	0.02																					12
13																										13
14	0.07	0.07	0.08	0.06	0.02	0.01				0.01																14
15				0.01											0.01											15
16																										16
17																										17
18																										18
19								0.07	0.01	0.01	0.03	0.14	0.20	0.13	0.16	0.02	0.01	0.05	0.32	0.39	0.06				19	
20						0.01												0.04	0.02		0.01					20
21																0.01										21
22																										22
23																										23
24										0.01																24
25																										25
26																										26
27																										27
28																										28
29																										29
30	0.06	0.01	0.01		0.01		0.07	0.02	0.01		0.04	0.09										0.01	0.01	0.01	0.01	30
31	0.01						0.01				0.04	0.04	0.06									0.11		0.24		31
Sum	0.28	0.17	0.14	0.22	0.21	0.19	0.18	0.17	0.15	0.23	0.24	0.42	0.26	0.19	0.32	0.18	0.40	0.09	0.34	0.48	0.08	0.16	0.03	0.28	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
October 2012: Westford



Wind Rose: October 2012
Westford



Maximum direction of wind: 65.2 miles from 206°
Maximum sector of wind: 600.2 miles from SSW
1312.0 total miles of wind