

# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary

### November 2003

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 Mean Index
	Maximum	Minimum	Average	Mean	Dew Point		Heating	Cooling			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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	23
1	62.4	40.1	51.3	55.6	48	75	14	0	.....	0	0.00	0.0	30.22	29.98	30.078	4.7	3.2	213	20	S	13	184	
2	42.8	40.2	41.5	41.8	39	90	24	0	.....	0	0.17	0.0	30.27	30.13	30.204	0.2	0.1	151	8	S	3	56	
3	46.5	38.9	42.7	42.9	42	98	23	0	1.....	0	0.19	0.0	30.22	30.08	30.129	0.5	0.3	3	13	N	0	0	
4	40.5	32.1	36.3	35.0	32	89	29	0	.....	0	0.06	0.0	30.36	30.09	30.252	2.8	0.6	124	21	SSE	6	198	
5	53.6	40.3	46.9	46.8	45	93	19	0	.....	0	0.18	0.0	30.09	29.90	29.993	10.1	8.9	184	31	S	0	0	
6	46.0	35.8	40.9	39.7	35	84	25	0	.....	0	0.00	0.0	30.20	30.05	30.132	0.9	0.8	334	12	WNW	0	0	
7	49.2	29.8	39.5	39.0	29	69	26	0	.....	0	0.00	0.0	30.10	29.93	30.035	5.0	4.2	247	32	W	7	299	
8	31.2	15.9	23.6	22.8	10	59	42	0	.....	0	0.02	0.2	30.55	30.09	30.374	5.5	5.4	304	26	NW	0	0	
9	33.4	15.4	24.4	24.6	9	51	41	0	.....	0	0.00	0.0	30.67	30.49	30.578	3.5	2.7	274	19	WNW	0	0	
10	42.2	22.2	32.2	31.3	20	63	33	0	.....	0	0.00	0.0	30.48	30.28	30.393	4.1	3.9	188	20	S	5	189	
11	40.6	28.1	34.3	35.1	26	70	31	0	.....	0	0.07	0.0	30.28	29.81	30.049	6.2	6.0	178	32	SSW	0	0	
12	53.5	40.6	47.0	45.1	42	87	18	0	.....	0	0.00	0.0	29.84	29.38	29.747	3.1	2.7	184	17	S	0	0	
13	50.1	25.8	37.9	39.3	34	83	28	0	.3.....	0	0.90	1.7	29.39	28.90	29.081	10.0	7.8	233	38	WSW	23	273	
14	25.8	18.0	21.9*	22.0	14	72	44	0	.....	0	0.09	1.2	29.74	29.29	29.561	12.9	12.6	283	39	W	0	0	
15	28.2	18.6	23.4	23.3	13	64	42	0	.....	0	T	T	30.12	29.75	29.956	4.9	4.5	290	24	NW	0	0	
16	36.8	19.1	27.9	27.0	20	75	38	0	.....	0	0.00	0.0	30.25	30.12	30.209	0.2	0.1	326	6	W	0	0	
17	37.9	25.1	31.5	30.5	24	77	34	0	.....	0	0.00	0.0	30.34	30.21	30.259	0.2	0.2	34	6	NE	0	0	
18	46.5	32.4	39.5	40.3	35	81	26	0	.....	0	0.00	0.0	30.35	30.02	30.236	4.7	4.5	169	24	S	0	0	
19	58.7	44.5	51.6*	50.7	46	83	14	0	.....	0	0.84	0.0	30.01	29.35	29.669	8.6	8.1	165	33	S	11	151	
20	44.5	34.3	39.4	39.2	37	90	26	0	.....	0	0.84	0.0	29.89	29.52	29.727	3.0	2.7	320	17	WNW	0	0	
21	52.6	27.8	40.2	38.2	34	85	25	0	.....	0	0.00	0.0	30.06	29.86	29.928	0.3	0.1	315	7	S	0	0	
22	45.2	29.1	37.2	35.5	33	90	28	0	.2.....	0	0.00	0.0	30.22	30.06	30.166	0.5	0.4	335	8	N	0	0	
23	54.5	27.5	41.0	41.4	32	71	24	0	.....	0	0.00	0.0	30.22	29.99	30.132	2.3	2.1	184	16	S	0	0	
24	59.2	34.7	47.0	48.4	30	50	19	0	.....	0	0.03	0.0	29.98	29.62	29.811	8.2	6.4	181	28	SE	0	0	
25	35.2	24.7	30.0	30.4	25	81	36	0	.....	0	0.10	1.0	30.10	29.78	29.986	2.6	2.3	257	19	W	0	0	
26	37.5	27.0	32.3	31.6	24	74	33	0	.....	0	0.05	0.0	30.21	30.06	30.101	4.0	3.9	190	18	S	8	186	
27	47.3	25.3	36.3	35.8	28	76	29	0	.....	0	0.05	0.0	30.26	29.98	30.172	0.6	0.1	178	11	SE	0	0	
28	54.2	38.9	46.6	44.4	40	86	19	0	.....	0	0.29	0.0	29.98	29.03	29.634	4.8	4.4	164	25	S	0	0	
29	53.5	26.0	39.8	34.5	29	79	26	0	.....	0	0.64	0.2	29.64	28.84	29.140	9.1	8.1	245	35	SSW	0	0	
30	37.2	29.5	33.4	33.3	28	82	32	0	.....	0	0.00	0.0	29.71	29.57	29.651	6.1	5.8	202	24	S	8	199	
Sum	Sum	-----	-----	---	----	Ttl	Ttl																---
1347	888					848	0	Number of Days		4.52	4.3	30.67	28.84	29.979	4.3	2.5	217	39	W	23	273		
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl	Date	Date	-----	----	----	---	Date	Date	Avg				
44.9	29.6	37.2	36.8	30	77.5	----	----	>.01 inch	16	40.85	4.3	9	29	-----	----	----	---	14	13				
Number of Days								Season to Date	Snow, Ice >1.0 inch	3	Greatest in 24 Hours and Dates						Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date						
Max Temperature				Min Temperature				1725	316	Thunder	1	Precipitation			Snow, Ice Plts								
> 90°F	< 32°F	< 32°F	< 0°F	----	----	Heavy Fog	1	1.66	19-20	1.7	13	0						-					
0	3	18	0	----	----	Clear	6	Partly Cloudy	7	Cloudy	17												

**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

November 2003: 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																																																																																																																																																																																									
NOV 01																						NOV 02																						NOV 03																																																																																																																																																																		
01	30.01	0.00	60	49	67	18	9	16	30.22	0.00	41	37	85	00	0	0	30.12	0.00	42	42	98	00	0	0	04	29.99	0.00	59	50	72	18	9	14	30.23	0.00	42	34	72	02	0	0	1	30.10	0.00	43	42	98	04	0	1	07	30.00	0.00	59	51	75	20	8	14	30.25	0.00	41	37	85	00	0	0	1	30.11	0.00	43	43	98	04	0	2	10	30.03	0.00	60	54	79	24	3	7	30.25	0.01	41	39	93	00	0	0	0	30.12	0.00	46	46	98	18	0	2	13	30.05	0.00	62	53	73	27	5	8	30.21	0.00	42	40	93	18	0	2	0	30.11	0.00	46	45	98	00	0	0	16	30.12	0.00	55	46	71	29	4	12	30.18	0.00	42	41	94	20	0	1	0	30.13	0.00	43	42	96	31	1	3	19	30.20	0.00	50	44	77	31	2	7	30.16	0.00	43	42	97	06	0	2	0	30.13	0.00	42	41	97	00	0	2	22	30.21	0.00	44	38	78	00	1	6	30.15	0.00	42	42	98	06	0	1	0	30.19	0.00	40	39	97	33	0	3
NOV 04																						NOV 05																						NOV 06																																																																																																																																																																		
01	30.22	0.00	38	37	96	00	1	3	30.09	0.00	41	37	88	15	7	17	30.07	0.00	45	42	88	33	0	3	04	30.27	0.00	35	32	89	00	2	8	30.07	0.00	41	38	89	18	10	17	10	30.11	0.00	40	35	85	31	1	5	07	30.34	0.00	33	30	88	00	1	3	30.04	0.00	43	41	91	18	9	17	9	30.16	0.00	38	35	89	02	0	3	10	30.34	0.00	30	26	71	00	3	8	30.03	0.00	44	43	95	18	11	19	11	30.20	0.00	41	35	78	31	2	7	13	30.31	0.01	32	30	90	00	0	2	29.93	0.00	50	49	95	18	12	26	12	30.16	0.00	42	35	78	33	2	6	16	30.25	0.00	33	31	95	00	0	0	29.91	0.00	53	51	93	20	11	24	11	30.15	0.00	40	34	81	04	0	2	19	30.20	0.00	36	33	87	18	7	16	29.90	0.00	53	52	97	18	8	17	8	30.12	0.00	37	34	88	00	0	0	22	30.09	0.00	39	36	88	15	8	14	30.00	0.00	48	47	94	31	6	12	6	30.09	0.00	36	34	92	00	0	0
NOV 07																						NOV 08																						NOV 09																																																																																																																																																																		
01	30.08	0.00	36	32	86	00	0	2	30.11	0.00	29	15	56	29	9	20	30.56	0.00	20	9	62	27	3	7	04	30.07	0.00	31	29	92	00	0	0	30.20	0.00	24	19	82	31	3	8	3	30.60	0.00	20	6	55	29	6	13	07	30.08	0.00	34	30	87	15	4	7	30.31	0.00	21	4	47	29	11	19	11	30.66	0.00	16	6	65	27	0	2	10	30.06	0.00	43	36	75	20	4	10	30.37	0.00	24	8	50	29	9	18	9	30.67	0.00	25	6	63	29	4	11	13	29.97	0.00	48	30	50	24	8	17	30.41	0.00	24	10	55	31	7	16	7	30.59	0.00	32	6	34	24	5	8	16	29.94	0.00	46	27	47	24	6	10	30.48	0.00	23	8	51	29	7	17	7	30.55	0.00	31	11	43	24	6	14	19	30.02	0.00	40	23	49	24	11	22	30.51	0.00	21	7	54	29	3	12	3	30.51	0.00	29	16	57	24	5	11	22	30.06	0.00	35	28	76	33	8	18	30.53	0.00	17	9	69	27	1	2	1	30.50	0.00	25	11	55	18	2	4
NOV 10																						NOV 11																						NOV 12																																																																																																																																																																		
01	30.48	0.00	24	13	64	18	3	5	30.27	0.00	31	18	58	18	3	8	29.83	0.00	41	39	92	20	5	11	04	30.46	0.00	23	17	76	18	3	6	30.25	0.00	28	18	65	00	0	0	0	29.82	0.00	42	40	93	18	7	17	07	30.46	0.00	25	19	77	18	4	10	30.20	0.00	34	16	48	15	3	7	3	29.83	0.00	42	40	92	18	5	11	10	30.44	0.00	34	23	64	18	7	13	30.14	0.00	36	17	46	18	8	16	8	29.83	0.00	46	43	88	20	5	10	13	30.36	0.00	41	23	48	20	4	7	30.01	0.01	34	31	90	13	5	10	5	29.77	0.00	52	44	73	09	2	5	16	30.32	0.00	38	23	53	18	3	11	29.91	0.00	34	29	82	18	6	12	6	29.75	0.00	48	44	86	00	0	0	19	30.34	0.00	32	21	63	18	3	5	29.84	0.00	37	35	90	18	14	28	14	29.69	0.00	44	43	97	13	2	6	22	30.30	0.00	34	18	51	18	4	8	29.82	0.00	40	37	90	18	12	21	21	29.54	0.00	47	42	81	15	3	10
NOV 13																						NOV 14																						NOV 15																																																																																																																																																																		
01	29.29	0.00	48	45	87	15	8	17	29.33	0.00	24	23	93	27	16	31	29.76	0.00	21	12	65	29	4	8	04	29.15	0.01	47	46	95	18	7	14	29.45	0.00	21	18	88	27	13	21	21	29.84	0.00	20	11	67	24	5	10	07	29.13	0.00	44	36	73	22	6	13	29.53	0.00	18	15	87	27	12	24	24	29.91	0.00	19	10	68	29	7	13	10	29.03	0.00	42	34	73	24	8	17	29.56	0.00	20	12	72	29	14	28	28	29.95	0.00	23	14	68	29	10	19	13	28.95	0.00	39	27	62	20	9	18	29.57	0.00	24	12	60	29	16	27	27	29.96	0.00	26	16	64	31	7	19	16	28.93	0.00	35	32	88	22	8	16	29.61	0.00	24	12	59	29	11	19	19	30.01	0.00	27	16	61	31	5	10	19	29.02	0.00	32	31	97	27	12	21	29.67	0.00	24	10	56	29	16	28	28	30.07	0.00	24	14	64	27	1	4	22	29.18	0.00	29	28	96	27	14	27	29.72	0.00	22	12	64	27	8	16	16	30.10	0.00	24	12	59	00	0	0
NOV 16																						NOV 17																						NOV 18																																																																																																																																																																		
01	30.13	0.00	22	14	69	22	0	1	30.21	0.00	27	22	83	00	0	0	30.34	0.00	33	29	88	00	0	0	04	30.18	0.00	22	16	77	00	0	0	30.22	0.00	25	22	87	00	0	0	0	30.34	0.00	33	29	86	00	0	0	07	30.23	0.00	20	15	80	00	0	0	30.24	0.00	26	22	82	00	1	3	3	30.35	0.00	35	30	82	15	3	6	10	30.24	0.00	31	22	68	33	1	3	30.26	0.00	35	23	60	02	2	4	4	30.33	0.00	40	35	84	18	6	16	13	30.21	0.00	34	22	62	15	0	2	30.24	0.00	36	24	61	00	0	0	0	30.25	0.00	44	39	84	18	10	24	16	30.22	0.00	30	23	76	00	0	0	30.26	0.00	33	27	77	00	0	0	0	30.17	0.00	46	39	76	15	7	20	19	30.24	0.00	27	22	81	00	0	0	30.31	0.00	30	25	83	06	0	2	2	30.11	0.00	46	39	77	18	9	18	22	30.22	0.00	27	23	87	00	0	0	30.31	0.00	30	25	82	00	0	0	0	30.06	0.00	45	37	73	13	6	12

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Ended: Date	02	02	02	02	02	02	02	02	02	02	02	02
Ended: Time	1718	1718	1718	1718	1741	1741	1741	1741	1741	1741	1741	1741

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

November 2003: Westford

Hour	NOV 19								NOV 20								NOV 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
01	29.99	0.00	46	39	76	20	5	11	29.55	0.01	43	42	96	29	1	6	29.89	0.00	32	30	91	31	1	2		
04	29.89	0.00	48	40	74	18	10	19	29.58	0.01	40	39	95	31	2	5	29.89	0.00	30	29	96	00	0	0		
07	29.85	0.00	48	42	80	15	9	17	29.65	0.01	39	38	95	00	2	8	29.89	0.00	28	26	93	00	0	0		
10	29.77	0.00	50	45	81	15	8	20	29.70	0.00	40	38	95	00	2	8	29.90	0.00	40	34	79	20	5	7		
13	29.64	0.00	54	48	81	15	6	13	29.72	0.00	39	38	96	31	3	7	29.87	0.00	50	36	58	06	1	4		
16	29.47	0.00	54	49	85	15	10	20	29.81	0.00	39	36	89	31	3	12	29.92	0.00	48	38	68	00	0	0		
19	29.40	0.00	57	51	79	15	10	25	29.89	0.00	38	32	78	31	5	12	30.00	0.00	38	36	91	00	0	0		
22	29.38	0.02	56	56	97	18	5	12	29.88	0.00	37	31	80	31	0	1	30.06	0.00	38	36	91	00	0	0		
NOV 22								NOV 23								NOV 24										
01	30.08	0.00	36	36	97	00	0	0	30.19	0.00	29	28	95	00	0	0	29.97	0.00	46	31	55	00	0	0		
04	30.14	0.00	33	32	97	00	0	0	30.19	0.00	30	28	94	00	0	0	29.95	0.00	46	31	56	15	11	16		
07	30.18	0.00	32	31	97	00	0	2	30.22	0.00	28	26	94	11	0	2	29.92	0.00	43	30	59	18	8	14		
10	30.22	0.00	35	35	98	00	0	3	30.20	0.00	44	34	67	20	3	10	29.89	0.00	49	28	44	18	9	14		
13	30.16	0.00	45	34	67	00	2	5	30.11	0.00	53	34	47	18	8	14	29.74	0.00	58	30	34	18	10	17		
16	30.16	0.00	40	32	73	29	1	3	30.09	0.00	52	34	51	18	3	7	29.67	0.00	54	26	34	13	8	12		
19	30.19	0.00	34	31	87	00	0	0	30.07	0.00	46	33	60	18	4	10	29.62	0.00	50	31	49	15	12	18		
22	30.21	0.00	31	30	95	15	1	5	30.02	0.00	45	30	55	18	1	5	29.72	0.00	46	36	68	27	10	18		
NOV 25								NOV 26								NOV 27										
01	29.80	0.00	33	31	95	27	3	8	30.09	0.00	28	23	82	20	2	5	30.22	0.00	33	26	76	20	2	5		
04	29.84	0.00	32	31	96	20	1	2	30.08	0.00	29	23	78	20	4	10	30.23	0.00	28	25	87	00	0	0		
07	29.92	0.00	30	26	85	27	1	5	30.08	0.00	28	23	80	18	1	5	30.26	0.00	25	23	90	00	0	0		
10	30.03	0.00	31	26	82	24	5	10	30.08	0.00	32	25	75	18	7	17	30.25	0.00	37	28	70	00	0	0		
13	30.04	0.01	32	23	70	27	4	8	30.07	0.00	36	26	67	20	6	16	30.17	0.00	46	27	47	20	1	5		
16	30.08	0.00	30	21	69	24	2	5	30.09	0.00	36	26	67	20	4	8	30.15	0.00	41	31	66	06	0	1		
19	30.10	0.00	28	20	72	22	1	3	30.13	0.00	32	24	71	18	3	6	30.11	0.00	38	34	87	09	1	2		
22	30.08	0.00	25	21	86	13	0	1	30.18	0.00	32	25	75	20	1	4	30.01	0.00	40	30	68	13	0	2		
NOV 28								NOV 29								NOV 30										
01	29.96	0.00	39	30	69	20	0	3	28.99	0.00	51	51	98	22	0	2	29.62	0.00	32	24	72	20	3	10		
04	29.93	0.00	41	37	85	18	7	14	28.84	0.00	45	44	98	27	1	3	29.61	0.00	34	27	76	24	3	7		
07	29.91	0.00	41	40	94	15	4	8	28.88	0.00	38	33	82	20	9	25	29.62	0.00	34	27	78	20	7	16		
10	29.83	0.00	40	36	88	06	2	5	28.92	0.00	36	29	75	20	9	19	29.68	0.00	32	28	86	20	10	19		
13	29.67	0.01	43	40	89	11	1	5	29.07	0.00	30	21	69	24	11	21	29.66	0.00	34	29	83	20	7	17		
16	29.47	0.01	44	42	91	15	9	14	29.26	0.00	26	22	83	27	11	22	29.69	0.00	32	30	93	18	7	12		
19	29.31	0.00	50	47	91	15	9	19	29.43	0.00	28	17	63	27	14	24	29.71	0.00	34	30	84	18	3	7		
22	29.14	0.00	53	50	87	15	7	16	29.59	0.00	27	17	64	24	5	11	29.62	0.00	35	31	83	18	4	8		

WEATHER NOTES

SUMMARY BY HOUR

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.

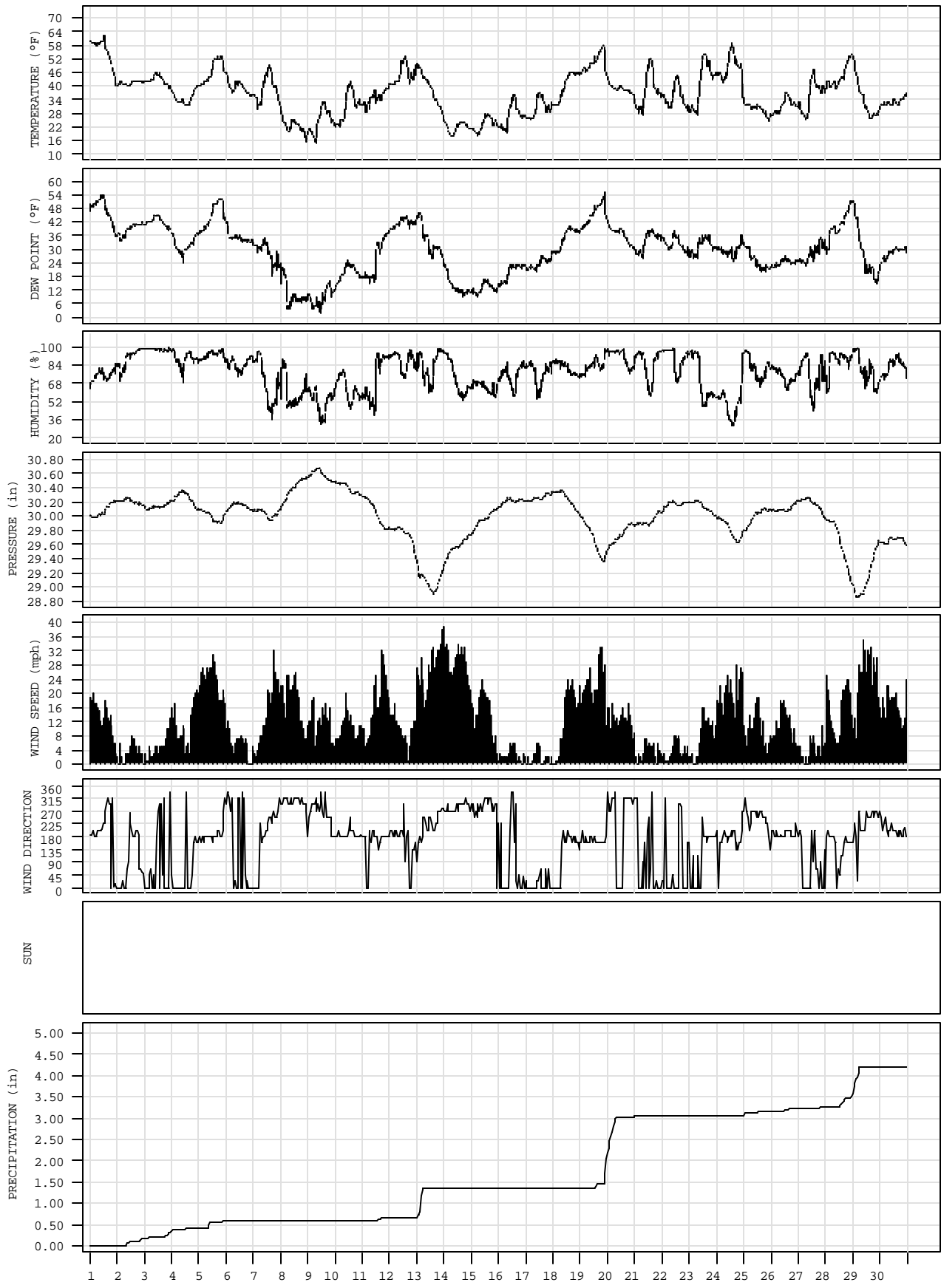
Hour	Averages						Resultant wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01	29.982	36	30	81	2.8	22	1.7	
04	29.984	34	30	83	3.5	20	2.3	
07	30.007	33	28	81	3.8	21	2.4	
10	30.011	38	30	75	5.2	22	3.1	
13	29.967	41	31	69	5.1	22	2.8	
16	29.959	39	31	73	4.4	22	2.5	
19	29.966	37	30	77	5.2	21	3.0	
22	29.965	36	30	79	3.6	22	1.7	

**HOURLY PRECIPITATION (Water Equivalent)  
November 2003: Westford**

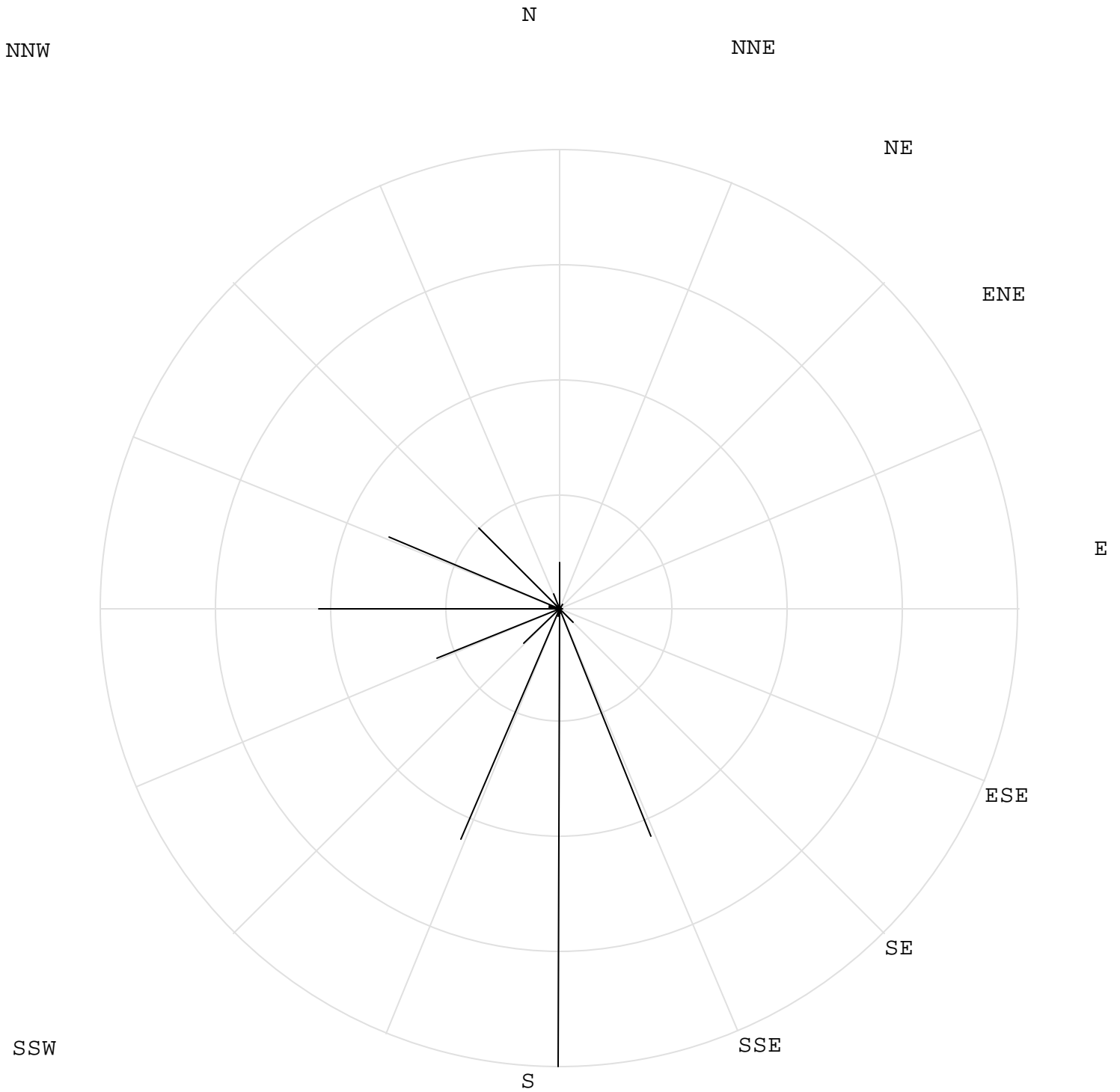
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date	
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12		
01																								01		
02													0.01					0.02			0.02	0.02		0.01	02	
03	0.02			0.01			0.02		0.06	0.02	0.01		0.01							0.05	0.02	0.01		0.05	03	
04	0.03												0.01	0.01	0.01						0.03	0.02			04	
05									0.06	0.06			0.01												05	
06																									06	
07																									07	
08																									08	
09																									09	
10																									10	
11																									11	
12														0.04			0.01	0.01	0.01						12	
13	0.05		0.08	0.38	0.14	0.02									0.01			0.01							13	
14																									14	
15																									15	
16																									16	
17																									17	
18																									18	
19					0.01										0.01	0.07	0.01				0.01		0.22	0.36	0.15	19
20	0.10	0.15	0.13	0.11	0.14	0.09	0.06	0.03	0.01				0.01											0.01	0.01	20
21																										21
22																										22
23																										23
24																									0.03	24
25	0.06												0.03	0.01												25
26												0.01		0.02	0.01	0.01										26
27											0.01		0.01	0.05	0.04	0.04	0.03	0.01	0.01	0.01	0.01					27
28					0.01																		0.05	0.04		28
29	0.20	0.05	0.12	0.04	0.11	0.12																				29
30																										30
Sum	0.46	0.20	0.33	0.54	0.41	0.23	0.08	0.03	0.13	0.08	0.02	0.02	0.09	0.14	0.13	0.06	0.04	0.05	0.03	0.03	0.11	0.28	0.42	0.29	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  
November 2003: Westford



Wind Rose: November 2003  
Westford



Maximum direction of wind: 775.2 miles from 180°.  
3109.6 total miles of wind.