

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

February 2003

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			Wind						Sun			
	Maximum	Minimum	Average	Mean	Dew Point		Mean	Heating			Cooling	Water Equivalent	Ice Pellets	Snow	Adj. to Sea Level			Avg	Res	Res	Peak			Minute		Mean Index
															Maximum	Minimum	Mean				Speed	Dir		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	38	27	32.7	32.5	28	84	33	0	.....6...	0	0.04	T	30.07	29.71	29.891	0.3	0.2	39	4	NE	2	23			
2	32	26	28.9	28.8	26	91	37	0	.....	0	0.08	1.8	29.72	29.58	29.654	3.8	3.8	320	22	NW	13	293			
3	32	20	25.9	26.0	16	66	40	0	.....	0	0.00	0.0	29.91	29.69	29.837	2.3	2.2	310	24	W	13	305			
4	37	24	30.4	31.8	25	76	35	0	.....6...	0	0.34	1.0	29.70	29.16	29.347	8.3	6.1	197	35	WSW	25	241			
5	24	7	15.3	13.6	0	55	50	0	.....	0	0.00	0.0	30.19	29.34	29.814	9.7	9.4	263	31	W	22	240			
6	22	4	13.0	14.5	1	55	52	0	.....	0	0.00	0.0	30.31	30.11	30.224	5.3	4.7	190	20	S	13	176			
7	22	5	13.5	16.7	8	70	52	0	.....	0	0.02	0.4	30.11	29.84	29.931	4.0	2.6	202	20	SSW	14	194			
8	24	5	14.3	15.4	2	56	51	0	.....	0	0.00	0.0	29.94	29.83	29.880	7.0	6.9	189	24	SSW	17	188			
9	24	14	19.3	18.4	7	62	46	0	.....	0	0.09	2.5	29.98	29.79	29.867	6.5	5.4	207	22	SSW	17	190			
10	27	10	18.4	20.5	13	72	47	0	.....	0	0.03	0.0	29.94	29.41	29.688	5.4	4.8	187	26	W	17	292			
11	13	-13	0.2	-0.5	-19	43	65	0	.....	0	0.01	0.0	29.96	29.50	29.825	2.4	1.7	304	26	NW	12	315			
12	17	-3	6.9	7.4	-7	54	59	0	.....	0	0.07	1.5	29.84	29.48	29.647	5.8	4.4	248	34	WSW	17	248			
13	-1	-14	-7.4	-8.0	-23	47	72	0	.....	0	0.00	T	30.05	29.84	29.937	1.2	1.1	314	13	WNW	5	293			
14	5	-14	-4.8	-5.8	-21	48	69	0	.....	0	T	T	30.26	30.04	30.154	1.3	1.0	294	14	NW	6	315			
15	-1	-15	-7.8	-8.3	-23	48	72	0	.....	0	0.00	0.0	30.74	30.27	30.506	1.5	1.4	320	18	WNW	6	293			
16	-1	-18*	-9.6*	-10.2	-30	37	74	0	.....	0	0.00	0.0	30.89	30.66	30.788	0.4	0.3	335	10	N	3	0			
17	18	-9	4.4	6.5	-15	37	61	0	.....	0	0.00	0.0	30.67	30.17	30.437	0.3	0.1	7	7	S	3	203			
18	28	15	21.5	20.6	11	68	44	0	.....	0	0.04	0.5	30.16	30.03	30.092	0.3	0.0	166	7	N	2	45			
19	36	23	29.3	29.8	24	78	36	0	.....	0	0.00	0.0	30.16	29.97	30.065	6.8	6.4	192	30	S	16	180			
20	40	23	31.4	32.0	17	56	34	0	.....	0	0.00	0.0	30.20	30.00	30.084	6.6	5.4	213	25	WSW	14	248			
21	44*	29	36.0*	35.0	21	57	29	0	.....	0	0.00	0.0	30.01	29.91	29.961	3.6	3.4	192	14	S	8	180			
22	40	26	33.3	32.6	26	77	32	0	.....6...	0	0.17	0.3	29.93	29.39	29.768	0.4	0.2	171	12	SSE	7	154			
23	38	11	24.6	28.3	25	88	41	0	.....	0	0.66	4.5	29.72	28.99	29.246	6.0	3.4	276	32	WNW	16	293			
24	18	2	10.1	10.2	0	64	55	0	.....	0	0.01	0.3	30.20	29.74	30.057	1.7	1.4	292	25	WNW	13	293			
25	8	-4	1.9	2.8	-10	57	64	0	.....	0	T	T	30.51	30.11	30.352	3.3	3.2	302	28	W	14	270			
26	16	-11	2.6	3.1	-11	52	63	0	.....	0	0.00	0.0	30.51	30.31	30.422	1.8	1.6	178	14	SSW	8	180			
27	29	-0	14.4	14.1	-1	54	51	0	.....	0	0.00	0.0	30.33	30.13	30.242	1.4	1.3	189	13	S	7	180			
28	35	8	21.1	20.4	8	59	44	0	.....	0	0.00	0.0	30.16	30.08	30.129	0.6	0.4	291	10	WNW	5	270			
Sum	Sum	-----	-----	---	----	Ttl	Ttl																	---		
663	176					1408	0		Number of Days		1.56	12.8	30.89	28.99	29.994	3.5	2.0	228	35	WSW	25	241				
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip		Season Ttl	Date	Date	-----	----	----	----	----	----	Date	Date	Avg				
23.7	6.3	15.0	15.3	4	61.1	----	----		>.01 inch	12	3.08	75.0	16	23	-----	----	----	----			4	4				
Number of Days						Season to Date	Snow, Ice >1.0 inch	5	Greatest in 24 Hours and Dates						Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date											
Max Temperature			Min Temperature			5997	0	Thunder	0	Precipitation			Snow, Ice Plts													
> 90°F	< 32°F	< 32°F	< 0°F	----	----	Heavy Fog	0	0.66	23	4.5	23	0						-								
0	20	28	10	----	----	Clear	10	Partly Cloudy	8	Cloudy	10															

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

February 2003: Westford

Hour	% Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	% Humidity	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
FEB 01																											
01	30.07	0.00	29	24	81	09	0	1		29.70	0.00	30	29	94	01	0	1		29.71	0.00	28	25	86	29	9	16	
04	30.02	0.00	27	24	86	00	0	0		29.68	0.00	28	26	92	33	0	3		29.79	0.00	25	20	81	30	4	12	
07	29.98	0.00	29	25	85	00	0	0		29.69	0.00	26	24	90	32	2	8		29.85	0.00	22	17	80	32	1	8	
10	29.96	0.00	32	27	82	04	1	4		29.67	0.00	26	24	90	32	3	11		29.90	0.00	25	13	62	30	3	10	
13	29.85	0.00	37	30	76	04	1	3		29.59	0.00	28	25	87	32	4	16		29.86	0.00	30	11	44	02	1	3	
16	29.82	0.00	37	31	78	01	0	0		29.60	0.00	30	27	91	33	5	17		29.90	0.00	28	12	49	35	0	1	
19	29.80	0.00	33	32	94	06	0	0		29.63	0.00	31	29	94	31	6	17		29.89	0.00	25	14	62	02	0	0	
22	29.74	0.00	33	32	96	13	0	0		29.66	0.00	31	27	85	30	7	14										
FEB 02																											
FEB 03																											
FEB 04																											
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FEB 17																											
FEB 18																											

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ended: Date	00	00	00	00	00	00	00	00	00	00	00	00
Ended: Time	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000

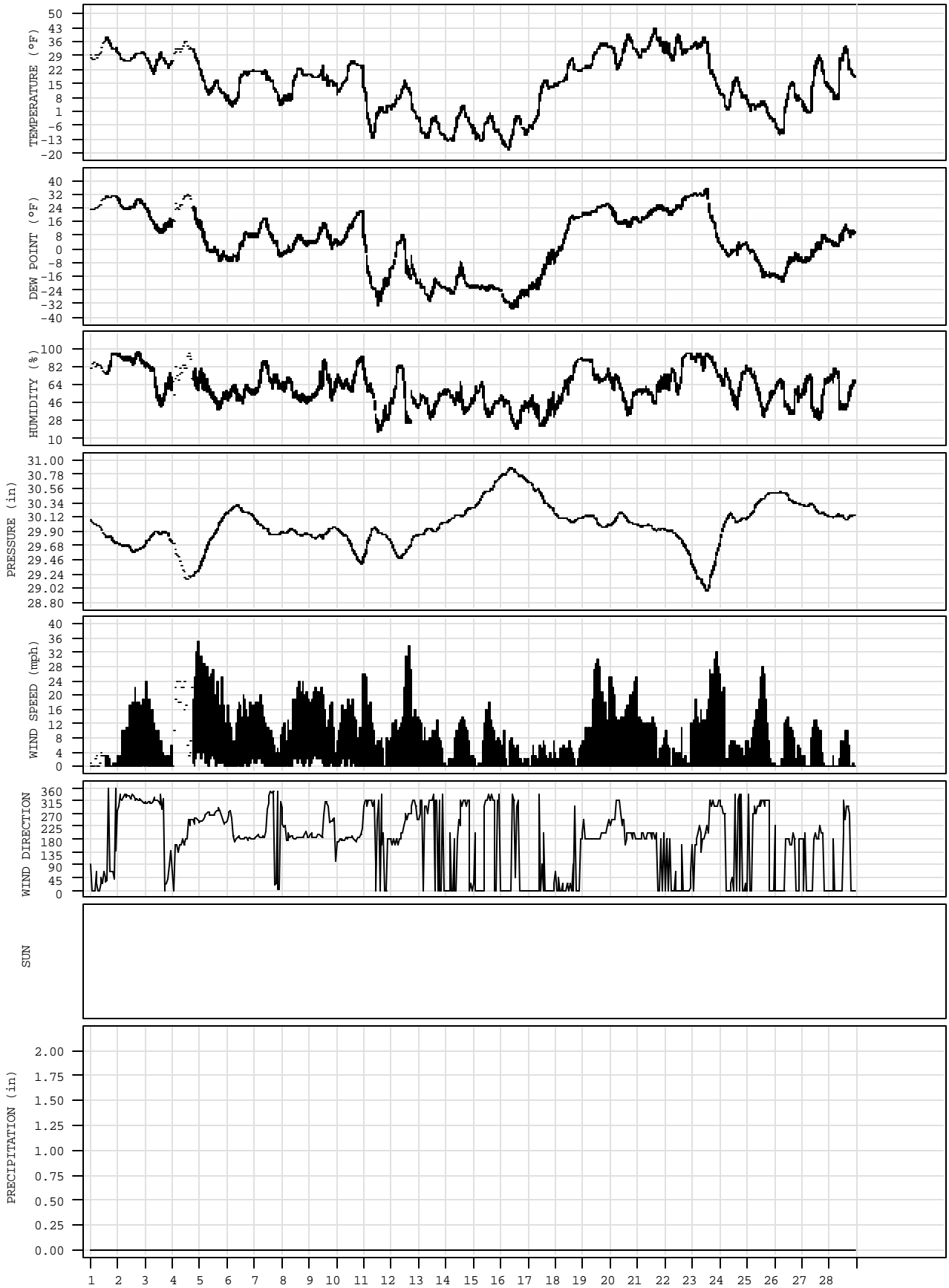
The precipitation amounts may occur at any time during the month. The time indicated is the ending time of the interval. Date and time are not entered for trace amounts.

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

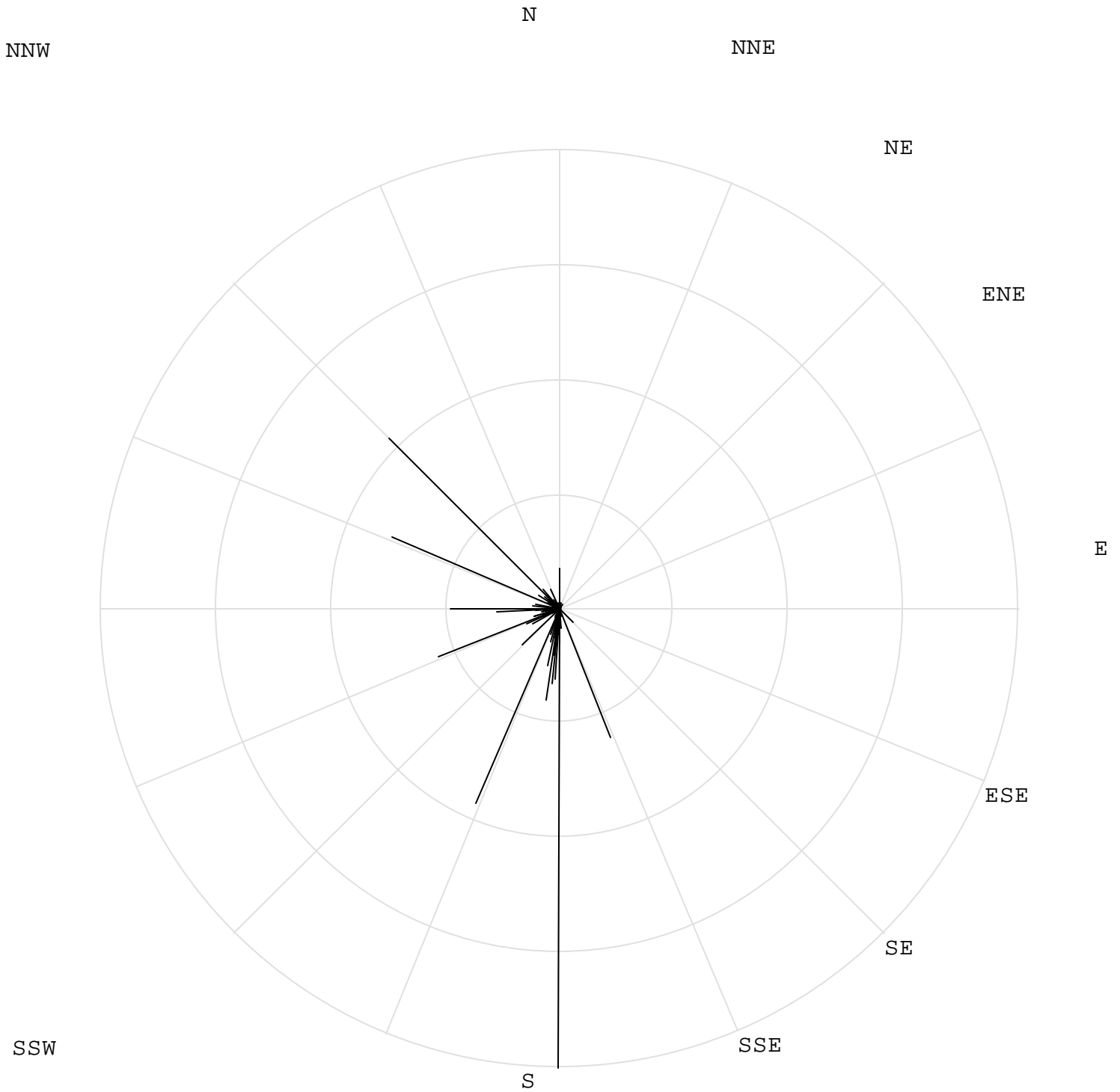
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
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Sum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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.)

HOURLY-BY-HOURLY DATA
February 2003: Westford



Wind Rose: February 2003
Westford



Maximum direction of wind: 360.9 miles from 180°.
2344.6 total miles of wind.