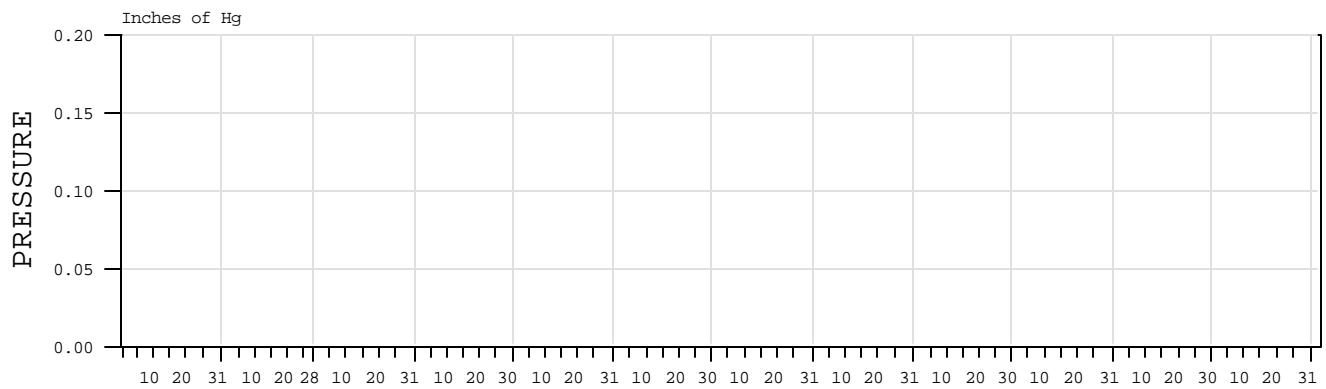
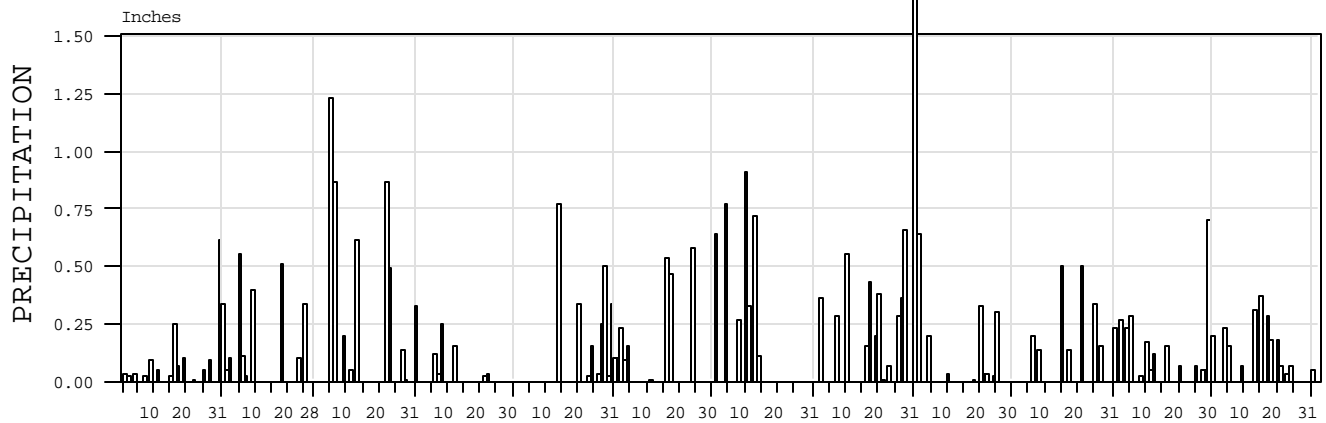
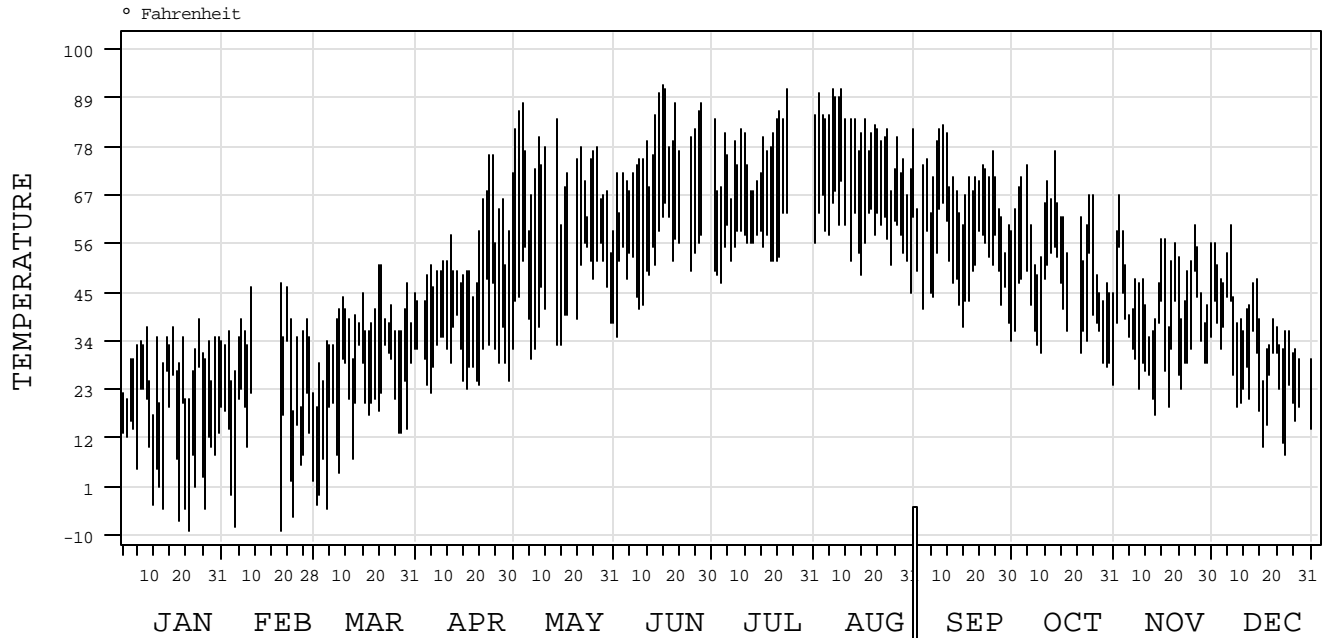


# 2001

## LOCAL CLIMATOLOGICAL DATA

Annual Summary with Comparative Data  
**Westford**  
Daily Data



# METEOROLOGICAL DATA FOR 2001

## Westford

Latitude: 44° 37' 39" N Longitude: 73° 02' 29" W Elevation (Ground): 850 feet Time Zone: Eastern

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
<b>TEMPERATURE</b>													
Average													
-Daily Maximum	29.9	34.0	38.1	55.0	72.2	78.4	77.1	81.2	69.5	59.0	48.4	39.9	56.9
-Daily Minimum	10.1	11.1	18.6	31.2	44.2	52.5	55.5	59.0	49.7	40.3	32.6	25.3	35.8
-Monthly	20.0	22.6	28.4	43.1	58.2	65.4	66.3	70.1	59.6	49.6	40.5	32.6	46.4
-Monthly Dew Point	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Extremes													
-Highest	39.0	47.0	51.0	76.0	88.0	92.0	91.0	91.0	83.0	77.0	67.0	60.0	92.0
-Date	24	18	20	23	3	15	23	6	9	13	2	6	JUN 15
-Lowest	-9.0	-9.0	-4.0	22.0	30.0	35.0	47.0	45.0	34.0	24.0	17.0	8.0	-9.0
-Date	21	18	4	5	6	1	3	30	30	31	13	23	JAN 21
<b>DEGREE DAYS BASE 65°F</b>													
Heating	1403	852	1143	643	190	62	27	19	189	422	743	917	6610
Cooling	0	0	0	0	6	67	52	164	27	1	0	0	317
<b>SUNSHINE INDEX</b>													
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>NUMBER OF DAYS</b>													
Sunrise to Sunset													
-Clear	31	20	31	29	26	24	23	30	29	27	30	28	328
-Partly Cloudy	0	0	0	0	0	0	0	0	0	0	0	0	0
-Cloudy	0	0	0	0	0	0	0	0	0	0	0	0	0
Precipitation													
.01 inches or more	21	12	11	7	11	8	9	13	9	12	18	17	148
Snow, Ice pellets													
1.0 inches or more	14	5	7	0	0	0	0	0	0	0	1	6	33
Thunderstorms													
	0	0	0	2	1	0	4	5	1	0	0	0	13
Heavy Fog, visibility													
¼ mile or less	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TEMPERATURE:</b>													
-Maximum													
90°F and above	0	0	0	0	0	3	1	3	0	0	0	0	7
32°F and below	17	5	4	0	0	0	0	0	0	0	0	7	33
-Minimum													
32°F and below	31	19	29	20	2	0	0	0	0	6	18	22	147
0°F and below	6	4	3	0	0	0	0	0	0	0	0	0	13
<b>PRESSURE</b>													
Average													
-Monthly	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Extremes													
-Highest	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
-Date	1	1	1	1	1	1	1	1	1	1	1	1	JAN 1
-Lowest	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
-Date	1	1	1	1	1	1	1	1	1	1	1	1	JAN 1
<b>RELATIVE HUMIDITY (%)</b>													
Average													
-Monthly	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-Local Time													
Hour 01	0	0	0	0	0	0	0	0	0	0	0	0	0
Hour 07	0	0	0	0	0	0	0	0	0	0	0	0	0
Hour 13	0	0	0	0	0	0	0	0	0	0	0	0	0
Hour 19	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>PRECIPITATION</b>													
Water Equivalent													
-Total	1.98	2.27	4.84	0.65	2.63	2.20	4.04	6.07	1.65	2.39	2.72	2.35	33.79
-Greatest (24 hrs)	0.61	0.55	1.23	0.25	0.78	0.59	0.91	0.00	0.65	0.51	0.71	0.38	1.23
-Date	30	5	5	8	14	24	10	1	1	21	29	15	MAR 5
Snow, Ice pellets													
-Total	30.9	18.4	41.6	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.3	17.8	112.9
-Greatest (day)	3.6	5.1	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.7	4.6	14.0
-Date	31	5	5	1	1	1	1	1	1	8	12	15	MAR 5
<b>WIND</b>													
Resultant													
-Direction	0	0	0	0	0	0	0	0	0	0	0	0	0
-Speed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Average Speed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maximum One-minute													
Average													
-Direction	N	N	N	N	N	N	N	N	N	N	N	N	N
-Speed	0	0	0	0	0	0	0	0	0	0	0	0	0
-Date	1	1	1	1	1	1	1	1	1	1	1	1	JAN 1
Peak Gust													
-Direction	N	N	N	N	N	N	N	N	N	N	N	N	N
-Speed	0	0	0	0	0	0	0	0	0	0	0	0	0
-Date	1	1	1	1	1	1	1	1	1	1	1	1	JAN 1

# MEANS AND EXTREMES\*

## Westford

Latitude: 44° 37' 39" N Longitude: 73° 02' 29" W Elevation (Ground): 850 feet Time Zone: Eastern

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
<b>TEMPERATURE</b>													
Average													
-Daily Maximum	28.7	34.4	40.6	53.7	68.6	78.5	80.2	78.5	68.9	56.5	43.5	34.3	55.5
-Daily Minimum	8.1	13.1	20.1	31.8	43.5	53.7	56.9	55.4	47.7	37.7	29.0	18.3	34.6
-Monthly	18.4	23.7	30.4	42.8	56.0	66.1	68.5	67.0	58.3	47.1	36.3	26.3	45.1
-Monthly Dew Point	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Extremes</b>													
-Record Highest	59.0	59.0	76.0	76.0	88.0	100.0	103.0	98.0	90.0	77.0	72.0	63.0	103.0
-Year	1996	1999	1998	2001	1998	1995	1995	1995	1999	2001	1996	1998	JUL 1995
-Record Lowest	-29.0	-13.0	-8.0	12.0	27.0	35.0	43.0	38.0	25.0	21.0	0.0	-11.0	-29.0
-Year	1997	1996	1997	1997	1997	2001	2000	1995	2000	1997	2000	1998	JAN 1997
<b>MEAN DEGREE DAYS</b>													
Heating (base 65°F)	1421	1108	1071	628	283	59	23	42	217	536	849	1165	7401
Cooling (base 65°F)	0	0	0	0	9	85	111	93	21	0	0	0	319
<b>MEAN SUNSHINE INDEX</b>													
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>MEAN NUMBER OF DAYS</b>													
<b>Sunrise to Sunset</b>													
-Clear	30.3	26.7	30.7	28.0	29.3	27.0	26.7	29.6	28.6	29.4	29.3	29.9	345.4
-Partly Cloudy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-Cloudy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Precipitation ≥ .01"</b>													
Snow, Ice plts. ≥ 1.0"	17.8	12.7	14.8	11.8	15.7	12.4	14.4	11.9	13.7	14.3	17.9	17.3	174.7
Thunderstorms	11.2	6.8	7.2	2.7	0.3	0.0	0.0	0.0	0.0	0.3	6.3	10.0	44.7
Heavy Fog, vis. ≤ ¼ mi	0.0	0.2	0.7	0.7	3.7	4.3	6.0	4.3	1.1	0.6	0.3	0.0	21.7
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
<b>TEMPERATURE:</b>													
<b>-Maximum</b>													
90°F and above	0.0	0.0	0.0	0.0	0.0	2.3	2.1	2.3	0.1	0.0	0.0	0.0	6.9
32°F and below	16.7	9.3	5.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.0	12.4	47.4
<b>-Minimum</b>													
32°F and below	29.2	24.7	26.2	15.7	3.0	0.0	0.0	0.0	0.7	9.7	18.7	26.4	154.2
0°F and below	10.5	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.9	22.7
<b>PRESSURE</b>													
<b>Average</b>													
-Monthly	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>Extremes</b>													
-Record Highest	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
-Year	1996	1996	1996	1996	1996	1995	1995	1995	1995	1995	1995	1995	JUN 1995
-Record Lowest	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
-Year	1996	1996	1996	1996	1996	1995	1995	1995	1995	1995	1995	1995	JUN 1995
<b>RELATIVE HUMIDITY (%)</b>													
<b>Average</b>													
-Monthly	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>-Local Time</b>													
Hour 01	0	0	0	0	0	0	0	0	0	0	0	0	0
Hour 07	0	0	0	0	0	0	0	0	0	0	0	0	0
Hour 13	0	0	0	0	0	0	0	0	0	0	0	0	0
Hour 19	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>PRECIPITATION</b>													
<b>Water Equivalent</b>													
-Mean	3.72	2.11	3.14	2.62	3.66	3.64	5.32	5.26	4.25	3.45	3.45	3.16	43.77
-Maximum Monthly	6.88	3.16	4.84	6.05	7.29	12.15	7.65	10.18	8.33	6.48	4.41	5.13	12.15
-Year	1998	2000	2001	2000	2000	1998	1996	1995	1999	1995	1997	1996	JUN 1998
-Minimum Monthly	1.98	0.96	1.05	0.00	0.00	0.00	3.24	2.63	1.65	2.04	2.11	1.32	0.00
-Year	2001	1999	1996				2000	1996	2001	1997	1998	1998	
-Greatest (24 hrs)	2.85	0.95	1.23	1.34	2.33	3.08	2.58	6.05	2.65	1.42	1.56	2.24	6.05
-Year	1998	2000	2001	2000	2000	1998	1996	1995	1999	1995	1995	1996	AUG 1995
<b>Snow, Ice pellets</b>													
-Mean	27.1	14.7	23.0	8.4	0.4	0.0	0.0	0.0	0.0	1.4	11.4	24.4	170.7
-Maximum Monthly	34.3	23.5	41.6	21.7	2.2	0.0	0.0	0.0	0.0	4.7	19.8	46.0	46.0
-Year	1999	2000	2001	1996	1996	1995	1995	1995	1995	1997	1996	1995	DEC 1995
-Minimum Monthly	15.5	9.8	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.5	0.0
-Year	1996	1999	2000	1999	1997	1995	1995	1995	1995	1996	1998	1999	JUN 1995
-Greatest (day)	11.0	9.2	14.0	13.4	2.0	0.0	0.0	0.0	0.0	4.1	7.0	15.0	15.0
-Year	2000	2000	2001	2000	1996	1995	1995	1995	1995	2000	1999	1997	DEC 1997
<b>WIND</b>													
<b>Resultant</b>													
-Direction	0	0	0	0	0	0	0	0	0	0	0	0	0
-Speed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Average Speed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maximum One-minute													
<b>Average</b>													
-Direction	N	N	N	N	N	N	N	N	N	N	N	N	N
-Speed	0	0	0	0	0	0	0	0	0	0	0	0	0
-Year	1996	1996	1996	1996	1996	1995	1995	1995	1995	1995	1995	1995	JUN 1995
<b>Peak Gust</b>													
-Direction	N	N	N	N	N	N	N	N	N	N	N	N	N
-Speed	0	0	0	0	0	0	0	0	0	0	0	0	0
-Year	1996	1996	1996	1996	1996	1995	1995	1995	1995	1995	1995	1995	JUN 1995

\* Length of record: June 1995 to December 2001

## Westford

### PRECIPITATION (inches)

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
1995						1.36	3.92	10.18	3.15	6.48	4.24	3.39	32.72
1996	3.86	2.22	1.05	6.03	5.01	3.88	7.65	2.63	3.64	3.88	4.15	5.13	49.13
1997	2.05	1.82	3.34	0.00	0.00	0.00	6.06	5.47	4.28	2.04	4.41	3.78	33.25
1998	6.88	2.22	3.78	2.24	3.22	12.15	7.25	6.20	5.64	3.03	2.11	1.32	56.04
1999	4.61	0.96	2.79	0.76	3.83	2.95	5.07	2.80	8.33	3.82	3.35	1.73	41.00
2000	2.92	3.16	3.01	6.05	7.29	2.94	3.24	3.48	3.04	2.48	3.16	4.43	45.20
2001	1.98	2.27	4.84	0.65	2.63	2.20	4.04	6.07	1.65	2.39	2.72	2.35	33.79

### SNOWFALL (inches)

Year	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Total
1994-95												0.0	0.0
1995-96	0.0	0.0	0.0	0.1	13.9	46.0	15.5	15.3	13.0	21.7	2.2	0.0	127.7
1996-97	0.0	0.0	0.0	0.0	19.8	15.0	31.9	11.2	24.2	9.8	0.0	0.0	111.9
1997-98	0.0	0.0	0.0	4.7	17.3	40.9	21.9	9.9	24.6	0.2	0.0	0.0	119.5
1998-99	0.0	0.0	0.0	0.0	2.0	7.6	34.3	9.8	25.2	0.0	0.0	0.0	78.9
1999-00	0.0	0.0	0.0	0.0	10.3	2.5	27.8	23.5	9.3	18.9	0.0	0.0	92.3
2000-01	0.0	0.0	0.0	4.3	13.4	40.8	30.9	18.4	41.6	0.0	0.0	0.0	149.4
2001-02	0.0	0.0	0.0	0.9	3.3	17.8							

## Westford

### TEMPERATURE °F

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
1995						69.5	74.0	70.9	56.3	51.1	33.4	19.6	53.5
1996	15.9	19.8	27.3	41.4	53.0	65.3	67.2	66.8	59.9	45.2	32.0	32.2	43.8
1997	18.0	25.6	27.1	41.1	50.4	65.0	66.8	64.1	56.7	44.6	33.4	23.0	43.0
1998	21.5	27.4	33.4	45.0	60.7	66.1	68.3	66.1	59.0	47.6	38.2	30.9	47.0
1999	18.6	24.0	30.4	44.3	57.9	68.2	71.5	65.3	61.5	44.1	40.4	27.3	46.1
2000	16.4	22.9	35.5	41.8	55.8	62.9	65.6	65.5	55.2	47.4	36.0	18.8	43.6
2001	20.0	22.6	28.4	43.1	58.2	65.4	66.3	70.1	59.6	49.6	40.5	32.6	46.4

### HEATING DEGREE DAYS: Base 65°F

Year	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Total
1994-95												33	33
1995-96	0	13	262	424	954	1416	1528	1320	1177	665	391	47	8197
1996-97	18	31	180	542	998	1027	1463	1112	1181	652	445	59	7708
1997-98	44	67	265	639	893	1227	1224	1060	954	588	158	69	7188
1998-99	13	53	196	528	784	1032	1444	1154	1049	588	212	46	7099
1999-00	12	50	169	657	696	1139	1466	1147	923	634	299	99	7291
2000-01	45	58	260	537	877	1395	1403	852	1143	643	190	62	7465
2001-02	27	19	189	422	743	917							

## Westford

### COOLING DEGREE DAYS: Base 65°F

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total
1995						160	248	182	9	0	0	0	599
1996	0	0	0	0	10	52	74	78	23	0	0	0	237
1997	0	0	0	0	0	53	90	36	7	0	0	0	186
1998	0	0	0	0	16	93	92	78	14	0	0	0	293
1999	0	0	0	0	15	132	164	52	56	0	0	0	419
2000	0	0	0	0	7	40	54	64	8	0	0	0	173
2001	0	0	0	0	6	67	52	164	27	1	0	0	317

**STATION LOCATION AND INSTRUMENTATION**  
**Westford**

Location	Occupied from	Occupied to	Latitude North	Longitude West	Elevation Above (ft)						
					Sea Level	Ground					
						Wind	Sun	Temp	Humidity	Rain	Barometer
22 Penny Ln Westford, VT 05494	Aug. 2001	Present	44° 37' 39"	73° 02' 29"	850	12	0	5	5	5	5

**INSTRUMENTATION DETAIL**

Units are: Temperature=°F, Wind=mph, Pressure=inches Hg, Precipitation=inches.

Davis VantagePro.

Wind:

Electronic sensors:

Instantaneous speed to 125 mph and direction to nearest 7°, greater of 2 mph or ±5%.

Temperature:

Electronic sensor: -40° to 140°F, ±1°F.

Humidity:

Electronic sensor: 0 to 100% RH, ±3%.

Barometer:

Electronic sensor: 26.00 to 32.00 inches Hg, ±0.05".

Rainfall:

4-inch diameter electronic tipping bucket rain gauge. Resolution 0.01", ±4%.

Sunshine:

Not recorded.

Snow, ice pellets, glaze and other meteorological phenomenon not recorded by the Weather Computer are manually observed and recorded in the station record.

**OBSERVER NOTES**