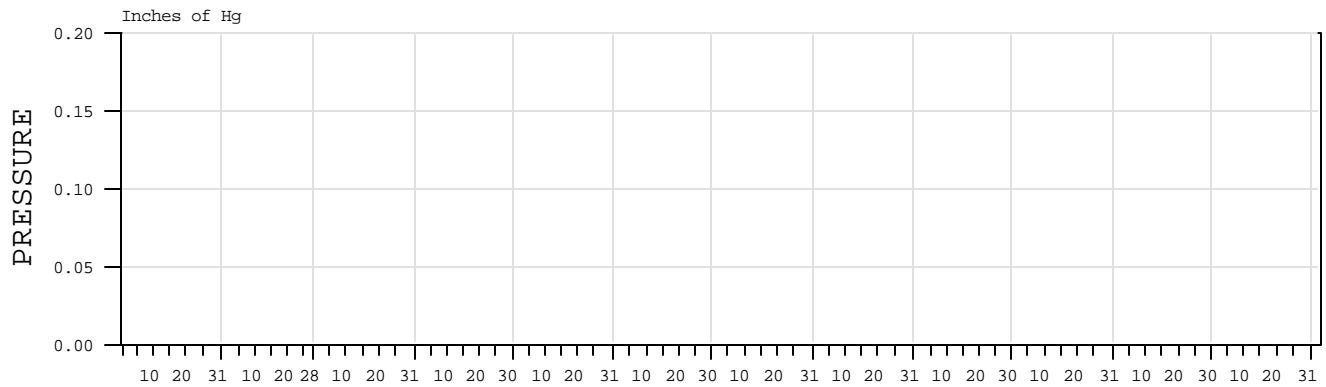
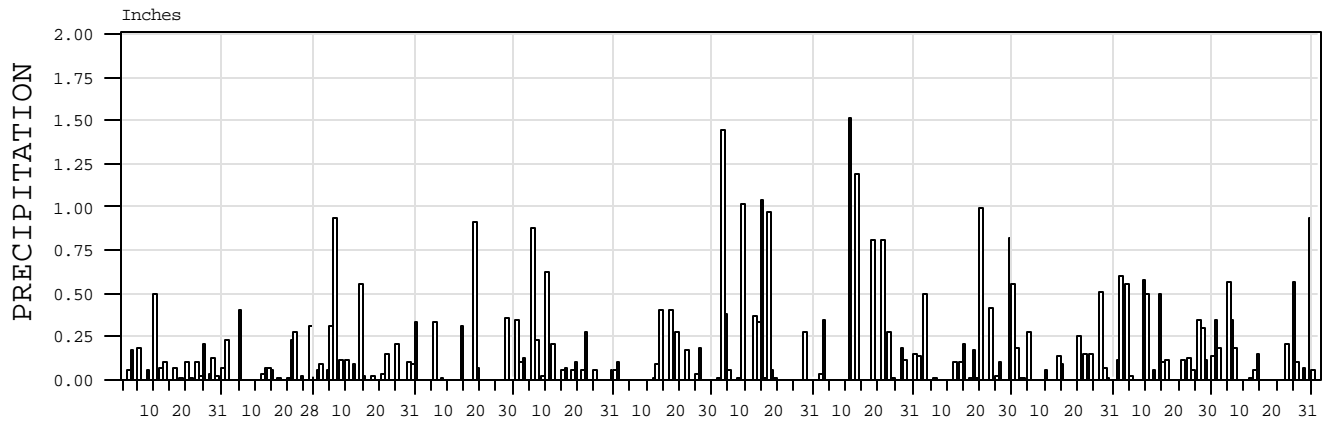
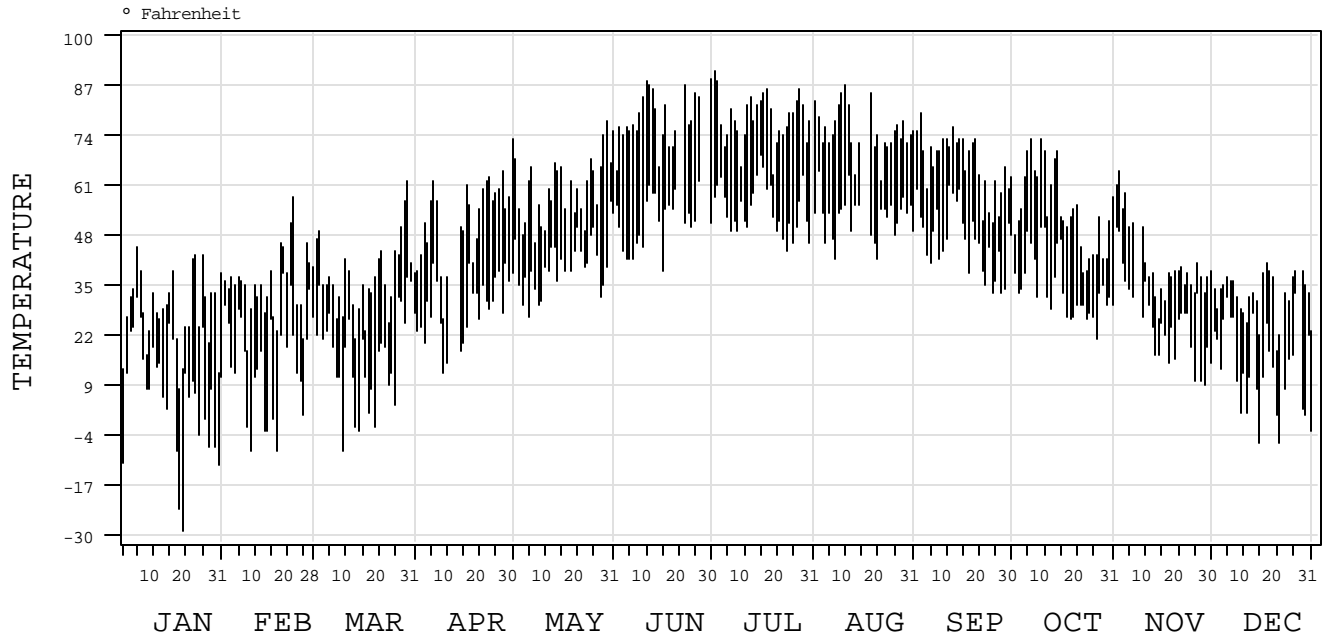


1997

LOCAL CLIMATOLOGICAL DATA

Annual Summary with Comparative Data
Westford
Daily Data



METEOROLOGICAL DATA FOR 1997

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
TEMPERATURE													
Average													
-Daily Maximum	28.6	35.5	37.4	52.8	60.4	78.5	78.6	75.3	66.6	54.8	41.1	32.3	53.5
-Daily Minimum	7.4	15.7	16.9	29.4	40.4	51.5	54.9	52.8	46.7	34.5	25.7	13.7	32.5
-Monthly	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
-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	45.0	58.0	62.0	73.0	78.0	89.0	91.0	87.0	80.0	73.0	65.0	41.0	91.0
-Date	5	22	29	30	29	30	1	10	2	6	2	17	JUL 1
-Lowest	-29.0	-8.0	-8.0	12.0	27.0	39.0	44.0	42.0	33.0	21.0	9.0	-6.0	-29.0
-Date	19	9	9	9	5	15	23	7	24	26	28	15	JAN 19
DEGREE DAYS BASE 65°F													
Heating	1463	1112	1181	652	445	59	44	67	265	639	893	1227	8047
Cooling	0	0	0	0	0	53	90	36	7	0	0	0	186
SUNSHINE INDEX													
	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
NUMBER OF DAYS													
Sunrise to Sunset													
-Clear	31	28	31	27	30	25	30	28	30	31	28	29	348
-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	23	15	18	8	21	10	14	12	21	14	20	15	191
Snow, Ice pellets													
1.0 inches or more	19	15	7	1	0	0	0	0	0	1	7	11	61
Thunderstorms													
	0	1	0	0	3	5	6	6	0	1	1	0	23
Heavy Fog, visibility													
¼ mile or less	0	0	0	0	0	0	0	0	0	0	0	0	0
TEMPERATURE:													
-Maximum													
90°F and above	0	0	0	0	0	0	1	0	0	0	0	0	1
32°F and below	19	10	9	1	0	0	0	0	0	0	3	12	54
-Minimum													
32°F and below	31	25	28	16	5	0	0	0	0	16	21	28	170
0°F and below	9	6	4	0	0	0	0	0	0	0	0	3	22
PRESSURE													
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
RELATIVE HUMIDITY (%)													
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
PRECIPITATION													
Water Equivalent													
-Total	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
-Greatest (24 hrs)	0.50	0.40	0.95	0.91	0.89	0.41	1.44	1.52	0.99	0.52	0.60	0.93	1.52
-Date	10	5	6	18	6	17	3	11	20	27	2	30	AUG 11
Snow, Ice pellets													
-Total	31.9	11.2	24.2	9.8	0.0	0.0	0.0	0.0	0.0	4.7	17.3	40.9	140.0
-Greatest (day)	9.4	2.5	9.5	8.3	0.0	0.0	0.0	0.0	0.0	4.0	5.2	15.0	15.0
-Date	10	5	6	18	7	1	1	1	1	24	14	30	DEC 30
WIND													
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
TEMPERATURE													
Average													
-Daily Maximum	27.6	32.5	38.0	51.5	62.6	79.8	81.4	79.7	68.2	56.3	40.3	32.6	54.2
-Daily Minimum	6.3	12.8	16.4	31.0	40.8	53.4	57.3	54.8	46.9	37.6	25.6	17.3	33.4
-Monthly	16.9	22.7	27.2	41.2	51.7	66.6	69.3	67.2	57.6	47.0	32.9	24.9	43.8
-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													
-Record Highest	59.0	58.0	62.0	73.0	81.0	100.0	103.0	98.0	87.0	75.0	72.0	56.0	103.0
-Year	1996	1997	1997	1996	1996	1995	1995	1995	1995	1995	1996	1996	JUL 1995
-Record Lowest	-29.0	-13.0	-8.0	12.0	27.0	39.0	44.0	38.0	32.0	21.0	5.0	-10.0	-29.0
-Year	1997	1996	1997	1997	1997	1995	1997	1995	1995	1997	1995	1996	JAN 1997
MEAN DEGREE DAYS													
Heating (base 65°F)	1496	1216	1179	659	418	46	21	37	236	535	948	1223	8013
Cooling (base 65°F)	0	0	0	0	5	88	137	99	13	0	0	0	342
MEAN SUNSHINE INDEX													
	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
MEAN NUMBER OF DAYS													
Sunrise to Sunset													
-Clear	31.0	28.5	31.0	27.5	30.5	28.3	29.0	29.7	29.0	29.3	29.3	30.3	353.5
-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
Precipitation ≥ .01"	18.0	15.0	14.5	14.5	20.5	10.7	16.0	9.3	15.0	15.0	20.7	20.0	189.2
Snow, Ice plts. ≥ 1.0"	12.5	10.0	8.0	6.5	1.0	0.0	0.0	0.0	0.0	0.3	11.3	16.3	66.0
Thunderstorms	0.0	0.5	0.0	1.0	4.0	3.3	6.3	4.7	0.7	1.0	0.3	0.0	21.8
Heavy Fog, vis. ≤ ¼ mi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3
TEMPERATURE:													
-Maximum													
90°F and above	0.0	0.0	0.0	0.0	0.0	4.0	4.0	4.3	0.0	0.0	0.0	0.0	12.3
32°F and below	19.0	13.0	8.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	5.3	14.0	60.3
-Minimum													
32°F and below	30.0	26.0	28.5	14.5	4.0	0.0	0.0	0.0	1.0	10.0	22.3	27.7	164.0
0°F and below	12.0	9.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	28.3
PRESSURE													
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													
-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
RELATIVE HUMIDITY (%)													
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
PRECIPITATION													
Water Equivalent													
-Mean	2.95	2.02	2.19	3.02	2.51	1.75	5.88	6.09	3.69	4.13	4.27	4.10	42.60
-Maximum Monthly	3.86	2.22	3.34	6.03	5.01	3.88	7.65	10.18	4.28	6.48	4.41	5.13	10.18
-Year	1996	1996	1997	1996	1996	1996	1996	1995	1997	1995	1997	1996	AUG 1995
-Minimum Monthly	2.05	1.82	1.05	0.00	0.00	0.00	3.92	2.63	3.15	2.04	4.15	3.39	0.00
-Year	1997	1997	1996				1995	1996	1995	1997	1996	1995	
-Greatest (24 hrs)	1.83	0.57	0.95	0.91	1.20	1.30	2.58	6.05	1.01	1.42	1.56	2.24	6.05
-Year	1996	1996	1997	1997	1996	1996	1996	1995	1995	1995	1995	1996	AUG 1995
Snow, Ice pellets													
-Mean	23.7	13.3	18.6	15.8	1.1	0.0	0.0	0.0	0.0	1.6	17.0	34.0	185.0
-Maximum Monthly	31.9	15.3	24.2	21.7	2.2	0.0	0.0	0.0	0.0	4.7	19.8	46.0	46.0
-Year	1997	1996	1997	1996	1996	1995	1995	1995	1995	1997	1996	1995	DEC 1995
-Minimum Monthly	15.5	11.2	13.0	9.8	0.0	0.0	0.0	0.0	0.0	0.0	13.9	15.0	0.0
-Year	1996	1997	1996	1997	1997	1995	1995	1995	1995	1996	1995	1996	JUN 1995
-Greatest (day)	9.4	4.5	9.5	8.3	2.0	0.0	0.0	0.0	0.0	4.0	5.2	15.0	15.0
-Year	1997	1996	1997	1997	1996	1995	1995	1995	1995	1997	1997	1997	DEC 1997
WIND													
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
-Year	1996	1996	1996	1996	1996	1995	1995	1995	1995	1995	1995	1995	JUN 1995
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
-Year	1996	1996	1996	1996	1996	1995	1995	1995	1995	1995	1995	1995	JUN 1995

* Length of record: June 1995 to December 1997

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

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							

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

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							

Westford

COOLING DEGREE DAYS: Base 65°F

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total
1995	0	0	0	0	10	160	248	182	9	0	0	0	599
1996	0	0	0	0	0	52	74	78	23	0	0	0	237
1997	0	0	0	0	0	53	90	36	7	0	0	0	186

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