

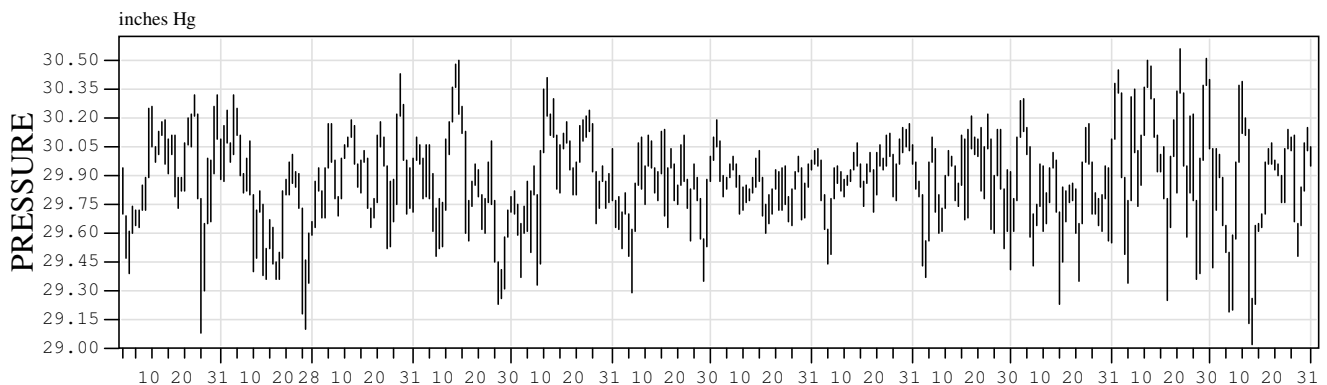
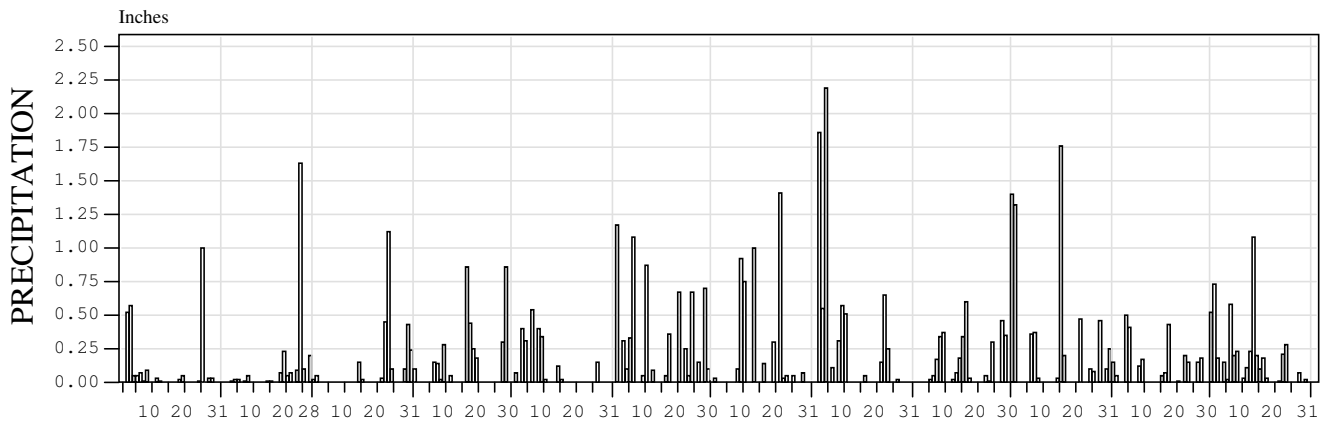
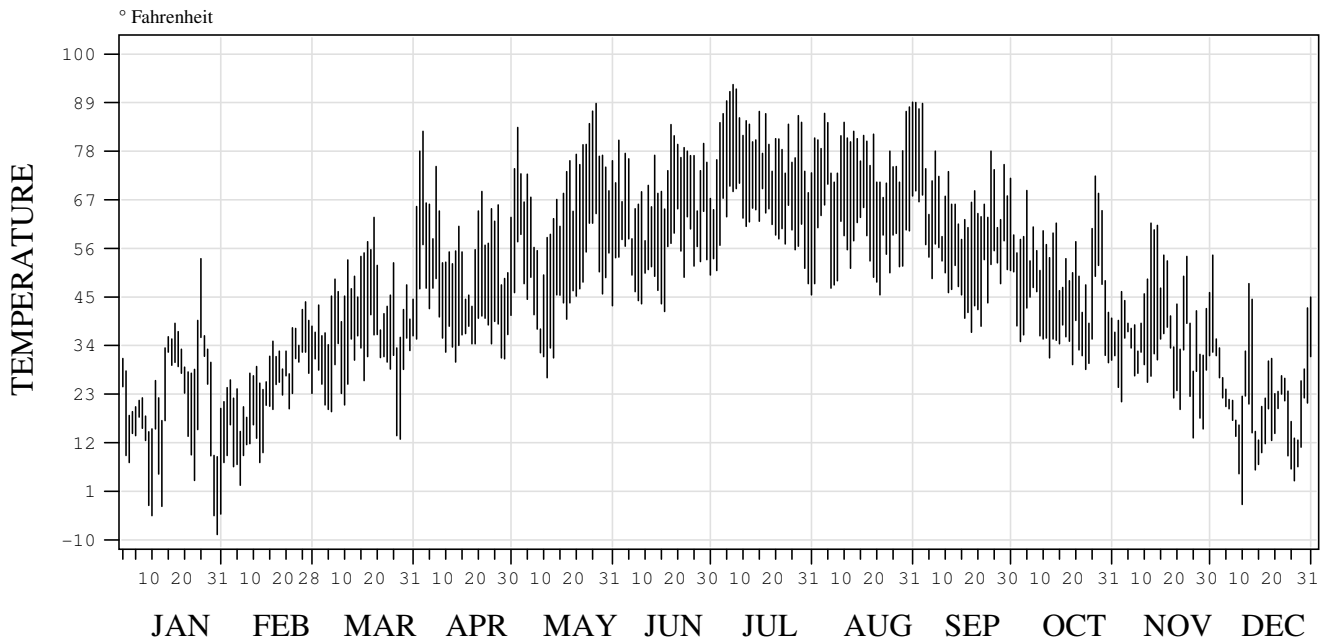
# 2010

# LOCAL CLIMATOLOGICAL DATA

## Annual Summary with Comparative Data

### Westford

### Daily Data



# METEOROLOGICAL DATA FOR 2010

## 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	26.9	29.5	45.5	59.4	70.1	72.4	81.2	78.6	69.4	54.6	43.5	27.1	54.8
-Daily Maximum	14.2	18.2	29.0	38.8	46.2	53.2	61.0	56.8	50.9	37.6	28.6	16.2	37.6
-Daily Minimum	20.6	23.9	37.2	49.1	58.1	62.8	71.1	67.7	60.2	46.1	36.0	21.6	46.2
-Monthly Dew Point	15.5	16.9	25.6	35.0	45.6	56.2	62.8	59.5	53.4	38.8	28.4	17.3	37.9
<b>Extremes</b>													
-Highest	53.8	43.9	63.0	82.5	88.8	84.0	93.2	89.2	89.0	72.4	61.7	54.6	93.2
-Date	25	26	19	3	26	18	7	31	1	26	12	1	JUL 7
-Lowest	-8.9	2.4	12.9	30.4	26.8	41.7	45.5	45.6	37.1	28.6	13.2	-2.1	-8.9
-Date	30	6	27	13	11	16	31	21	18	23	25	10	JAN 30
<b>DEGREE DAYS</b>													
Heating Base 65°F	1369	1143	850	474	245	101	19	32	183	575	860	1332	7183
Cooling Base 65°F	0	0	0	5	40	46	218	126	47	0	0	0	482
<b>SOLAR RADIATION (W/m2)</b>													
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.3	84.3	53.7	26.7	18.2
<b>NUMBER OF DAYS</b>													
<b>Sunrise to Sunset</b>													
-Clear	4	1	9	9	11	3	9	10	5	2	7	2	72
-Partly Cloudy	4	9	6	12	12	13	14	14	10	11	5	4	114
-Cloudy	23	18	16	9	8	14	8	7	15	18	18	25	179
<b>Precipitation</b>													
.01 inches or more	18	18	11	11	12	23	13	14	21	15	17	24	197
<b>Snow, Ice pellets</b>													
1.0 inches or more	4	8	1	2	1	0	0	0	0	0	1	14	31
<b>Thunderstorms</b>													
	0	0	0	2	3	2	7	4	3	0	0	0	21
<b>Heavy Fog, visibility</b>													
¼ mile or less	1	0	4	0	0	0	1	2	0	1	1	0	10
<b>TEMPERATURE:</b>													
<b>-Maximum</b>													
90°F and above	0	0	0	0	0	0	3	0	0	0	0	0	3
32°F and below	21	18	0	0	0	0	0	0	0	0	3	23	65
<b>-Minimum</b>													
32°F and below	29	26	21	3	4	0	0	0	0	8	20	30	141
0°F and below	6	0	0	0	0	0	0	0	0	0	0	1	7
<b>PRESSURE</b>													
<b>Average</b>													
-Monthly	29.913	29.763	29.920	29.845	29.922	29.821	29.865	29.925	29.876	29.825	30.047	29.827	29.879
<b>Extremes</b>													
-Highest	30.33	30.32	30.44	30.50	30.42	30.15	30.19	30.17	30.23	30.30	30.56	30.40	30.56
-Date	30	4	27	14	11	16	2	30	23	4	21	10	NOV 21
-Lowest	29.08	29.10	29.52	29.24	29.34	29.29	29.61	29.44	29.38	29.24	29.25	29.02	29.02
-Date	25	26	23	26	8	6	17	5	4	15	17	13	DEC 13
<b>RELATIVE HUMIDITY (%)</b>													
<b>Average</b>													
-Monthly	80.5	75.2	66.0	63.6	65.1	81.9	77.4	79.1	81.1	78.3	75.6	82.3	75.5
<b>-Local Time</b>													
Hour 01	83	79	70	72	74	90	85	87	87	82	78	85	81
Hour 07	82	81	74	75	76	90	86	89	88	87	82	84	83
Hour 13	77	66	58	54	55	70	67	66	70	69	66	77	66
Hour 19	80	76	66	58	59	77	74	78	82	77	76	83	74
<b>PRECIPITATION</b>													
<b>Water Equivalent</b>													
-Total	2.69	2.71	2.86	3.58	2.46	7.10	4.92	7.31	4.91	5.78	3.13	4.81	52.26
-Greatest (24 hrs)	1.03	0.00	1.50	0.88	0.54	1.18	1.53	2.42	1.41	1.79	0.81	0.85	2.42
-Date	24-25	1	22-23	27-28	6	1	9-10	3- 4	30	15-16	4- 5	3- 4	AUG 3- 4
<b>Snow, Ice pellets</b>													
-Total	41.8	36.7	1.9	15.2	1.0	0.0	0.0	0.0	0.0	0.6	1.2	53.3	151.7
-Greatest (day)	14.2	18.8	1.1	7.9	1.0	0.0	0.0	0.0	0.0	0.6	1.0	11.5	18.8
-Date	2	24	24	27	9	1	1	1	1	31	27	6	FEB 24
<b>WIND</b>													
<b>Resultant</b>													
-Direction	245	311	296	270	271	257	251	240	239	278	250	270	264
-Speed	1.6	1.4	0.9	1.7	1.5	1.1	1.2	1.0	1.4	1.2	1.5	1.2	1.2
Average Speed	2.5	2.3	2.4	3.2	2.4	1.7	1.7	1.4	1.9	2.2	2.9	2.6	2.2
<b>Maximum One-minute</b>													
<b>Average</b>													
-Direction	S	NW	SSW	NW	NW	NW	WNW	WNW	WNW	W	WNW	NW	S
-Speed	23	15	19	18	20	14	22	15	17	17	21	10	23
-Date	25	7	28	29	6	29	21	6	25	28	20	28	JAN 25
<b>Peak Gust</b>													
-Direction	S	WNW	SW	S	NW	WNW	W	WNW	WNW	NE	SW	S	S
-Speed	45	25	34	32	32	25	35	26	28	31	37	39	45
-Date	25	4	28	4	6	29	21	2	25	15	22	1	JAN 25

# 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	26.7	30.9	39.7	54.1	66.2	75.8	79.2	77.7	69.7	55.6	44.0	32.0	54.3
-Daily Maximum	9.1	12.2	20.9	33.7	43.8	53.5	57.7	56.1	48.7	37.8	29.4	17.2	35.0
-Daily Minimum	17.9	21.6	30.3	43.9	55.0	64.6	68.5	66.9	59.2	46.7	36.7	24.6	44.7
-Monthly Dew Point	4.9	5.5	10.2	16.3	23.0	28.0	30.5	29.7	26.4	19.9	15.0	8.9	18.2
<b>Extremes</b>													
-Record Highest	59.6	59.0	76.0	87.1	88.8	100.0	103.0	98.0	91.0	80.3	72.0	63.0	103.0
-Year	2008	1999	1998	2009	2010	1995	1995	1995	2002	2007	1996	1998	JUL 1995
-Record Lowest	-29.0	-18.1	-15.3	11.7	26.4	35.0	43.0	38.0	25.0	19.0	0.0	-18.4	-29.0
-Year	1997	2003	2003	2003	2005	2001	2000	1995	2000	2002	2000	2004	JAN 1997
<b>MEAN DEGREE DAYS</b>													
Heating Base 65°F	1451	1203	1076	614	320	84	23	48	196	562	837	1236	7649
Cooling Base 65°F	0	0	0	2	12	72	119	100	25	1	0	0	330
<b>MEAN SOLAR RADIATION</b>													
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	5.3	3.4	1.7	1.1
<b>MEAN NUMBER OF DAYS</b>													
<b>Sunrise to Sunset</b>													
-Clear	18.0	16.1	18.4	17.4	17.2	16.6	16.8	17.9	18.3	17.3	16.8	16.7	207.3
-Partly Cloudy	4.6	5.0	5.2	5.2	6.9	7.6	8.1	8.3	6.4	4.8	4.1	3.3	69.5
-Cloudy	8.1	6.5	7.3	6.3	6.2	4.3	4.1	3.8	4.5	8.2	8.6	10.5	78.5
<b>Precipitation ≥ .01"</b>													
Snow, Ice plts. ≥ 1.0"	16.8	12.7	13.9	13.3	15.8	14.7	14.9	13.1	12.6	15.8	16.7	17.6	177.7
Thunderstorms	9.2	6.2	5.3	2.3	0.3	0.0	0.0	0.0	0.0	0.4	3.7	9.6	37.0
Heavy Fog, vis. ≤ ¼ mi	0.0	0.1	0.3	1.0	2.5	4.9	5.8	4.7	1.4	0.5	0.3	0.1	21.6
	0.1	0.0	0.7	0.0	0.5	0.3	0.1	0.6	0.3	0.6	0.5	0.2	3.7
<b>TEMPERATURE:</b>													
<b>-Maximum</b>													
90°F and above	0.0	0.0	0.0	0.0	0.0	1.4	1.3	1.3	0.1	0.0	0.0	0.0	4.1
32°F and below	19.5	14.2	7.3	0.7	0.0	0.0	0.0	0.0	0.0	0.1	3.2	15.3	60.3
<b>-Minimum</b>													
32°F and below	29.1	26.0	25.9	13.2	2.1	0.0	0.0	0.0	0.5	9.5	18.3	27.8	152.4
0°F and below	9.5	5.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.0	19.7
<b>PRESSURE</b>													
Average	15.991	15.971	15.989	15.955	15.955	14.928	14.936	14.961	15.007	14.976	15.006	14.988	15.388
<b>Extremes</b>													
-Record Highest	30.85	30.89	30.77	30.69	30.52	30.29	30.34	30.34	30.54	30.72	30.67	30.76	30.89
-Year	2005	2003	2007	2003	2005	2008	2004	2003	2008	2008	2003	2006	FEB 2003
-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>													
Average	38.5	36.2	35.1	33.7	36.7	39.3	40.1	40.7	40.4	39.9	38.2	39.2	38.2
<b>-Monthly</b>													
-Local Time													
Hour 01	41	39	38	37	41	44	45	45	44	43	40	40	41
Hour 07	41	39	39	39	42	44	45	46	46	44	41	41	42
Hour 13	35	31	31	29	31	33	34	34	33	34	33	36	33
Hour 19	39	37	35	31	34	37	38	39	41	40	39	39	37
<b>PRECIPITATION</b>													
<b>Water Equivalent</b>													
-Mean	3.09	2.33	2.95	3.04	3.96	4.70	5.26	5.22	4.09	4.67	3.65	3.82	46.79
-Maximum Monthly	6.88	3.88	4.84	6.05	7.92	12.15	7.65	11.43	8.87	8.38	5.35	7.77	12.15
-Year	1998	2008	2001	2000	2006	1998	1996	2004	2002	2006	2007	2003	JUN 1998
-Minimum Monthly	1.28	0.83	1.05	0.00	0.00	0.00	3.10	1.54	1.65	1.45	1.92	1.32	0.00
-Year	2004	2004	1996				2006	2002	2001	2004	2008	1998	
-Greatest (24 hrs)	2.85	0.95	1.50	1.39	2.58	3.08	2.58	6.05	2.65	1.92	1.87	2.24	6.05
-Year	1998	2000	2010	2007	2009	1998	1996	1995	1999	2007	2009	1996	AUG 1995
<b>Snow, Ice pellets</b>													
-Mean	26.4	20.2	18.2	7.0	0.3	0.0	0.0	0.0	0.0	1.4	8.3	29.7	111.7
-Maximum Monthly	41.8	40.1	41.6	21.7	2.2	0.0	0.0	0.0	0.0	6.5	20.5	69.8	69.8
-Year	2010	2008	2001	1996	1996	1995	1995	1995	1995	2005	2002	2003	DEC 2003
-Minimum Monthly	15.5	9.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.5	0.0
-Year	1996	1999	2010	1999	1997	1995	1995	1995	1995	1996	2006	1999	JUN 1995
-Greatest (day)	14.2	23.6	16.2	13.4	2.0	0.0	0.0	0.0	0.0	4.5	9.8	15.0	23.6
-Year	2010	2007	2006	2000	1996	1995	1995	1995	1995	2005	2002	1997	FEB 2007
<b>WIND</b>													
<b>Resultant</b>													
-Direction	233	268	263	253	254	244	236	235	232	252	240	245	246
-Speed	1.9	1.5	1.3	1.7	1.5	1.0	1.1	1.0	1.2	1.2	1.6	1.7	1.4
Average Speed	1.8	1.8	2.0	2.0	1.4	0.9	0.8	0.8	1.0	1.3	1.8	1.9	1.5
<b>Maximum One-minute</b>													
<b>Average</b>													
-Direction	WSW	S	S	WSW	SSW	W	WNW	W	W	S	S	SSW	WSW
-Speed	26	27	24	28	22	19	22	20	23	23	24	25	28
-Year	2008	2008	2003	2008	2009	2008	2010	2007	2008	2009	2007	2008	APR 2008
<b>Peak Gust</b>													
-Direction	WSW	W	WNW	W	SSW	W	W	W	W	SW	W	S	W
-Speed	45	47	44	40	39	44	35	34	40	40	39	45	47
-Year	2008	2006	2009	2008	2004	2004	2010	2007	2008	2003	2003	2004	FEB 2006

\* Length of record: June 1995 to December 2010

## 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
2002	2.80	2.35	2.46	3.79	4.49	9.09	4.92	1.54	8.87	3.97	4.21	2.69	51.18
2003	1.52	1.56	3.72	2.82	4.75	2.76	3.67	6.26	2.81	6.46	4.52	7.77	48.62
2004	1.28	0.83	2.94	2.10	3.59	3.86	6.66	11.43	2.58	1.45	3.09	4.94	44.75
2005	3.25	2.99	2.41	3.68	1.40	4.38	5.22	5.35	4.09	8.00	4.80	3.54	49.11
2006	4.44	2.48	2.02	3.82	7.92	9.50	3.10	4.24	4.15	8.38	3.06	4.67	57.78
2007	3.93	3.13	3.11	4.42	2.72	2.64	4.81	3.50	2.96	7.33	5.35	3.62	47.52
2008	1.91	3.88	3.85	2.88	2.75	5.82	7.58	3.14	2.01	5.40	1.92	3.66	44.80
2009	2.18	2.39	2.07	2.79	7.36	4.58	6.01	3.97	3.38	3.86	4.21	3.25	46.05
2010	2.69	2.71	2.86	3.58	2.46	7.10	4.92	7.31	4.91	5.78	3.13	4.81	52.26

### 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	30.0	17.1	20.0	5.0	0.0	0.0	94.1
2002-03	0.0	0.0	0.0	0.0	20.5	15.4	26.3	12.8	13.4	8.4	0.0	0.0	96.8
2003-04	0.0	0.0	0.0	T	4.3	69.8	22.5	12.0	10.5	3.9	1.5	0.0	124.5
2004-05	0.0	0.0	0.0	0.0	2.5	28.4	27.5	28.4	24.0	T	0.0	0.0	110.8
2005-06	0.0	0.0	0.0	6.5	5.2	30.1	23.9	15.5	21.5	3.2	0.0	0.0	105.9
2006-07	0.0	0.0	0.0	3.0	0.1	14.1	18.2	32.7	24.3	16.1	0.0	0.0	108.5
2007-08	0.0	0.0	0.0	0.0	9.5	41.2	19.3	40.1	10.5	1.0	T	0.0	121.6
2008-09	0.0	0.0	0.0	3.0	9.2	29.5	24.8	20.2	9.5	2.0	T	0.0	98.2
2009-10	0.0	0.0	0.0	T	T	22.9	41.8	36.7	1.9	15.2	1.0	0.0	119.5
2010-11	0.0	0.0	0.0	0.6	1.2	53.3							

## 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
2002	26.4	25.2	31.6	46.5	52.5	61.7	68.5	68.6	61.9	44.0	34.9	22.9	45.4
2003	10.1	15.0	28.4	39.9	53.8	62.8	68.1	68.3	60.4	45.3	37.2	23.5	42.7
2004	5.8	19.4	32.4	42.2	55.9	60.6	67.3	65.0	59.3	46.5	35.1	21.0	42.5
2005	13.2	21.9	26.8	45.4	50.5	68.3	69.6	67.9	61.6	48.4	37.8	21.6	44.4
2006	27.0	20.5	30.1	44.2	56.2	63.4	70.7	64.4	57.7	44.8	41.0	29.8	45.8
2007	19.0	12.7	27.4	41.0	54.6	64.7	66.4	66.2	61.4	52.2	33.7	22.3	43.5
2008	23.2	21.2	26.8	48.8	52.7	65.5	68.5	65.3	59.6	45.5	36.5	22.7	44.7
2009	12.8	21.5	31.5	45.3	54.6	61.9	65.5	67.8	57.6	44.5	41.3	23.3	44.0
2010	20.6	23.9	37.2	49.1	58.1	62.8	71.1	67.7	60.2	46.1	36.0	21.6	46.2

### 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	1206	1122	1044	504	388	123	6704
2002-03	30	38	148	662	790	1270	1710	1408	1148	767	363	135	8469
2003-04	19	59	170	629	848	1303	1841	1337	1024	678	312	147	8367
2004-05	26	75	191	589	910	1377	1614	1220	1198	604	466	59	8329
2005-06	21	36	153	534	833	1351	1184	1250	1092	632	296	105	7487
2006-07	5	93	217	634	724	1086	1419	1457	1159	711	342	75	7922
2007-08	34	58	140	395	929	1316	1287	1258	1173	482	369	68	7509
2008-09	10	37	190	596	851	1301	1610	1206	1027	585	324	120	7857
2009-10	43	47	219	626	701	1283	1369	1143	850	474	245	101	7101
2010-11	19	32	183	575	860	1332							

## 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
2002	0	0	0	16	7	30	125	128	55	4	0	0	365
2003	0	0	0	0	1	56	99	144	16	0	0	0	316
2004	0	0	0	5	15	28	82	59	2	0	0	0	191
2005	0	0	0	0	0	143	150	110	37	5	0	0	445
2006	0	0	0	0	19	52	176	65	4	0	0	0	316
2007	0	0	0	2	30	74	88	104	45	3	0	0	346
2008	0	0	0	3	0	92	127	57	36	0	0	0	315
2009	0	0	0	3	8	36	67	147	10	0	0	0	271
2010	0	0	0	5	40	46	218	126	47	0	0	0	482

**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
			44° 37' 39"	73° 02' 29"	850	0	0	0	0	0	0

**INSTRUMENTATION DETAIL**

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

The following equipment is used for measuring meteorological data at this station:

Davis Vantage Pro/Vue

**OBSERVER NOTES**

None.