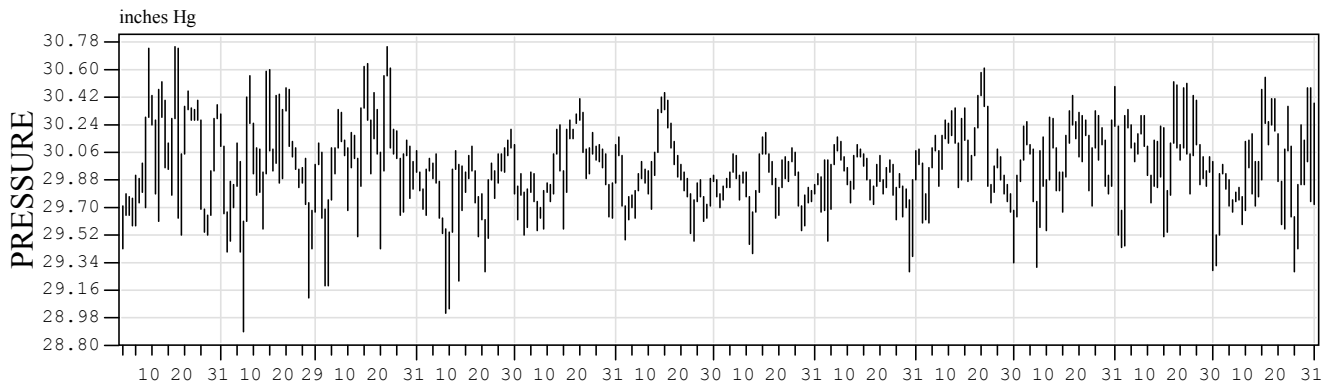
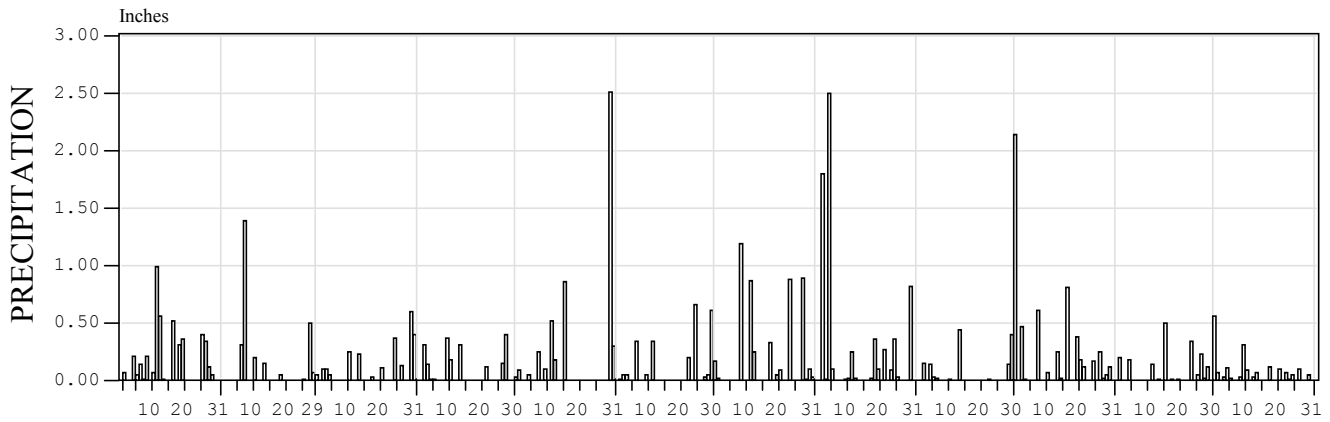
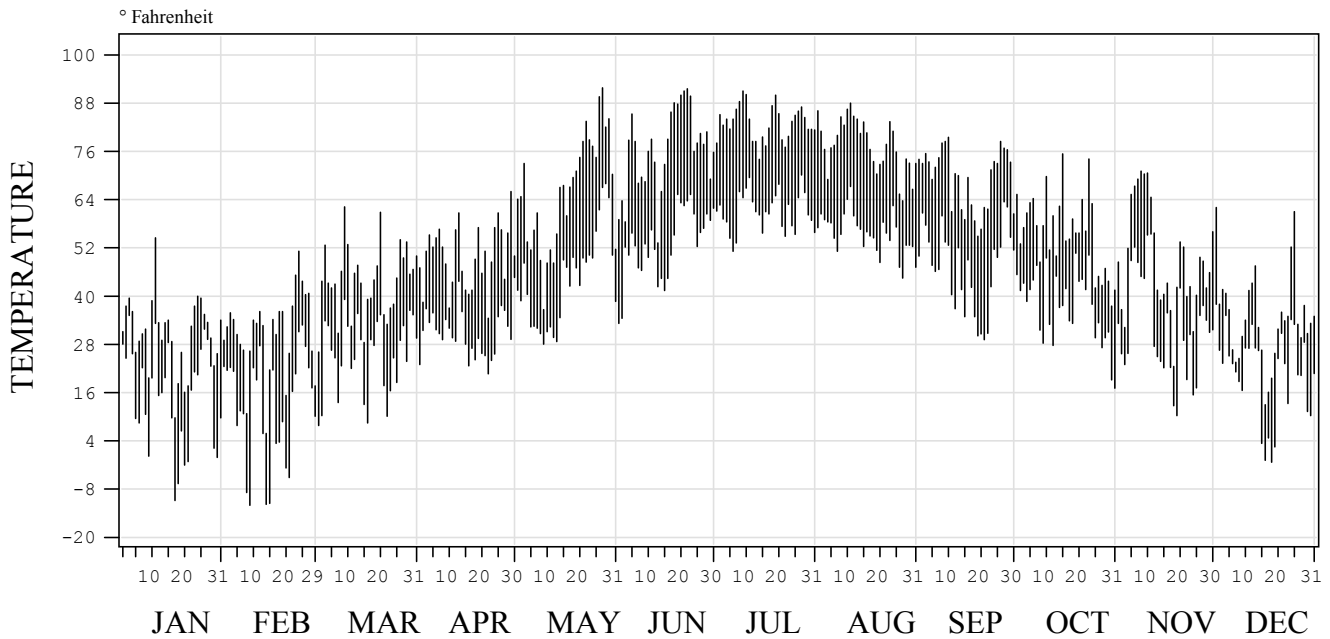


2020

LOCAL CLIMATOLOGICAL DATA

Annual Summary with Comparative Data

Westford Daily Data



METEOROLOGICAL DATA FOR 2020

Westford

Latitude: 44° 37' 38" 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	30.7	31.0	43.9	50.0	66.2	76.4	83.1	77.6	69.3	55.9	49.1	34.6	55.7
-Daily Minimum	15.3	12.3	25.1	30.9	44.0	52.9	61.0	55.6	47.0	37.4	32.0	20.9	36.2
-Monthly	23.0	21.7	34.5	40.5	55.1	64.7	72.0	66.6	58.2	46.6	40.5	27.8	45.9
-Monthly Dew Point	19.2	16.1	24.6	26.8	40.5	56.3	65.2	60.5	51.9	40.8	33.4	22.8	38.2
Extremes													
-Highest	54.6	51.3	62.2	66.0	91.8	91.7	91.1	88.1	79.5	75.4	71.2	62.1	91.8
-Date	11	24	9	29	27	22	9	11	10	15	8	1	May 27
-Lowest	-10.8	-12.0	7.9	20.7	28.1	33.2	51.3	44.5	29.2	17.1	10.4	-1.4	-12.0
-Date	17	9	1	22	9	1	6	27	21	31	19	18	Feb 9
DEGREE DAYS													
Heating Base 65°F	1289	1253	936	725	343	104	0	41	217	563	725	1145	7341
Cooling Base 65°F	0	0	0	0	49	103	225	99	23	0	0	0	499
SOLAR RADIATION (W/m²)	28.2	67.6	125.6	157.9	229.3	224.5	214.3	185.1	135.7	80.8	44.4	27.0	126.7
NUMBER OF DAYS													
Sunrise to Sunset													
-Clear	2	3	6	6	9	9	6	8	8	6	3	1	67
-Partly Cloudy	8	9	9	7	12	10	21	13	15	9	6	8	127
-Cloudy	21	16	15	17	10	11	4	10	7	16	21	22	170
Precipitation													
.01 inches or more	18	10	15	13	15	15	14	17	12	19	17	16	181
Snow, Ice pellets													
1.0 inches or more	8	4	1	0	1	0	0	0	0	0	2	5	21
Thunderstorms	0	0	0	0	3	3	5	5	1	2	0	0	19
Heavy Fog, visibility													
¼ mile or less	0	0	1	0	1	1	0	0	0	0	0	1	4
TEMPERATURE:													
-Maximum													
90°F and above	0	0	0	0	2	4	3	0	0	0	0	0	9
32°F and below	16	14	3	0	0	0	0	0	0	0	3	13	49
-Minimum													
32°F and below	29	28	21	19	8	0	0	0	4	9	17	26	161
0°F and below	6	6	0	0	0	0	0	0	0	0	0	2	14
PRESSURE													
Average													
-Monthly	30.049	29.952	30.073	29.817	29.945	29.910	29.855	29.890	30.030	30.041	30.040	29.943	29.962
Extremes													
-Highest	30.76	30.61	30.75	30.21	30.42	30.45	30.19	30.16	30.62	30.50	30.52	30.55	30.76
-Date	17	15	22	29	20	15	16	7	21	31	18	16	Jan 17
-Lowest	29.43	28.90	29.20	29.01	29.53	29.48	29.41	29.28	29.35	29.32	29.29	29.28	28.90
-Date	1	7	4	9	3	24	12	29	30	7	30	25	Feb 7
RELATIVE HUMIDITY (%)													
Average													
-Monthly	84.1	77.0	69.4	62.4	62.5	77.2	82.0	84.6	83.1	81.3	76.1	80.2	76.7
Local Time													
Hour 00	86	79	74	69	73	88	91	94	91	87	79	81	83
Hour 06	88	82	80	74	78	93	95	95	93	88	81	82	86
Hour 12	79	71	61	54	50	66	70	73	70	72	68	75	68
Hour 18	84	77	63	53	51	63	71	75	77	79	76	81	71
PRECIPITATION													
Water Equivalent													
-Total	4.50	2.81	2.46	2.13	4.99	2.67	4.79	6.88	3.55	3.69	2.50	1.36	42.33
-Greatest (24 hrs)	0.00	0.00	0.64	0.56	2.53	0.75	1.19	2.51	2.53	0.83	0.57	0.15	2.53
-Date	1	5	29-30	26-27	29-30	29-30	8	4	29-30	15-16	30	4- 5	May 29-30
Snow, Ice pellets													
-Total	23.7	22.4	4.8	0.6	3.0	0.0	0.0	0.0	0.0	T	4.1	10.4	69.0
-Greatest (day)	6.2	15.0	4.0	0.6	2.5	0.0	0.0	0.0	0.0	T	1.8	3.0	15.0
-Date	16	7	23	22	9					27	25	9	Feb 7
WIND													
Resultant													
-Direction	201	203	209	242	240	224	207	234	200	198	197	202	211
-Speed	1.6	2.0	1.9	2.2	2.0	0.8	0.8	0.7	1.0	1.8	3.3	2.6	1.7
Average Speed	2.5	2.9	3.5	3.6	3.0	1.1	1.0	0.9	1.4	2.7	4.5	4.0	2.6
Maximum Two-minute													
Average													
-Direction	S	WSW	WSW	SW	W	W	S	WSW	S	S	W	SSE	SW
-Speed	21	19	21	24	18	19	12	19	14	18	19	20	24
-Date	10	19	20	13	9	6	17	2	16	23	2	24	Apr 13
Peak Gust													
-Direction	S	SSE	S	SW	S	WNW	S	SW	SSE	SSE	SSE	S	WNW
-Speed	41	35	37	37	33	44	28	30	34	37	41	40	44
-Date	10	16	13	13	1	6	17	2	13	15	30	24	Jun 6

MEANS AND EXTREMES*

Westford

Latitude: 44° 37' 38" 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	26.5	31.9	38.8	49.2	66.2	74.6	83.2	78.3	65.3	53.3	40.7	33.1	53.4
-Daily Minimum	9.6	13.7	21.9	31.0	44.2	51.1	59.0	55.9	45.2	36.4	25.9	17.3	34.3
-Monthly	18.1	22.8	30.3	40.1	55.2	62.8	71.1	67.1	55.3	44.9	33.3	25.2	43.8
-Monthly Dew Point	13.8	16.8	21.5	29.2	43.5	54.4	63.2	60.6	51.1	39.1	27.6	20.9	36.8
Extremes													
-Record Highest	57.3	65.7	62.2	72.8	91.8	91.7	93.5	90.8	89.0	79.6	71.2	62.1	93.5
-Year	2018	2018	2020	2019	2020	2020	2018	2018	2018	2018	2020	2020	Jul 2018
-Record Lowest	-19.2	-12.0	1.0	15.1	28.1	33.2	46.4	43.1	0.0	0.0	-2.7	-6.7	-19.2
-Year	2018	2020	2019	2018	2020	2020	2019	2018	2019	2019	2018	2019	Jan 2018
MEAN DEGREE DAYS													
Heating Base 65°F	1447	1190	1067	738	314	116	5	31	247	588	943	1225	7909
Cooling Base 65°F	0	0	0	0	22	61	190	103	31	1	0	0	408
MEAN SOLAR RADIATION													
	22.7	48.2	85.0	101.2	131.5	148.7	149.7	188.5	144.6	71.2	38.2	30.8	96.7
MEAN NUMBER OF DAYS													
Sunrise to Sunset													
-Clear	2.3	3.3	4.3	2.7	3.3	5.7	5.3	8.7	5.3	3.7	2.3	2.0	49.0
-Partly Cloudy	5.0	5.0	6.0	6.3	7.3	7.3	12.3	14.0	11.7	8.7	6.0	10.3	100.0
-Cloudy	13.3	10.3	9.7	10.7	10.0	7.0	3.0	6.3	7.3	15.3	21.7	18.3	133.0
Precipitation ≥ .01"													
Snow, Ice plts. ≥ 1.0"	12.0	8.3	11.0	18.7	15.0	15.0	11.7	17.0	11.3	18.0	18.3	17.3	173.7
Thunderstorms	6.3	3.0	1.7	0.3	0.3	0.0	0.0	0.0	0.0	0.0	5.0	4.7	21.3
Heavy Fog, vis. ≤ ¼ mi	0.0	0.3	0.3	0.0	2.0	2.7	4.0	6.0	1.3	0.7	0.0	0.0	17.3
	0.0	0.3	0.3	1.0	1.3	0.7	0.0	0.3	0.0	0.0	1.0	0.7	5.7
TEMPERATURE:													
-Maximum													
90°F and above	0.0	0.0	0.0	0.0	0.7	1.3	3.0	0.7	0.0	0.0	0.0	0.0	5.7
32°F and below	20.3	14.0	8.0	0.7	0.0	0.0	0.0	0.0	1.3	1.0	7.7	15.3	68.3
-Minimum													
32°F and below	29.7	26.7	26.3	19.0	3.7	0.0	0.0	0.0	2.7	9.0	22.3	28.0	167.3
0°F and below	9.3	5.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.0	0.3	2.7	19.7
PRESSURE													
Average													
-Monthly	30.045	30.049	30.004	29.886	29.930	29.874	29.910	29.908	30.068	28.890	30.014	29.997	29.881
Extremes													
-Record Highest	30.83	30.81	30.75	30.49	30.46	30.45	30.31	30.34	30.62	30.50	30.62	30.72	30.83
-Year	2018	2018	2020	2019	2019	2020	2018	2019	2020	2020	2018	2019	Jan 2018
-Record Lowest	29.26	28.90	29.20	29.01	29.37	29.43	29.41	29.28	0.00	0.00	29.16	28.92	0.00
-Year	2019	2020	2020	2020	2018	2019	2020	2020	2019	2019	2019	2019	Sep 2019
RELATIVE HUMIDITY (%)													
Average													
-Monthly	81.9	76.6	71.5	69.4	68.6	76.5	78.8	83.0	77.5	78.8	79.4	81.7	77.0
-Local Time													
Hour 00	56	53	49	50	53	58	60	92	83	87	82	84	67
Hour 06	57	54	52	52	55	62	63	95	83	89	84	85	69
Hour 12	52	46	41	39	40	44	46	70	70	72	73	76	56
Hour 18	55	50	42	39	40	43	47	74	75	80	79	82	59
PRECIPITATION													
Water Equivalent													
-Mean	3.26	1.89	1.93	3.72	4.58	3.45	3.31	4.69	3.08	6.36	4.32	2.43	43.03
-Maximum Monthly	5.28	2.85	2.49	5.20	6.22	4.20	4.79	6.88	3.55	9.55	5.45	3.68	9.55
-Year	2019	2019	2019	2018	2019	2019	2020	2020	2020	2019	2018	2018	Oct 2019
-Minimum Monthly	0.00	0.00	0.85	2.13	2.54	2.67	1.51	2.68	2.44	3.69	2.50	1.36	0.00
-Year			2018	2020	2018	2020	2018	2018	2019	2020	2020	2020	
-Greatest (24 hrs)	0.00	0.00	0.64	0.94	2.53	1.11	1.85	2.51	2.53	3.08	1.56	0.15	3.08
-Year			2020	2019	2020	2019	2019	2020	2020	2019	2019	2020	Oct 2019
Snow, Ice pellets													
-Mean	23.8	12.8	8.0	0.8	1.0	0.0	0.0	0.0	0.0	T	15.7	11.6	73.8
-Maximum Monthly	47.8	22.4	19.2	1.9	3.0	0.0	0.0	0.0	0.0	T	27.5	14.6	47.8
-Year	2019	2020	2019	2019	2020					2018	2018	2019	Jan 2019
-Minimum Monthly	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	9.9	0.0
-Year										2020	2018	2018	
-Greatest (day)	12.0	15.0	7.0	1.2	2.5	0.0	0.0	0.0	0.0	T	9.0	4.2	15.0
-Year	2019	2020	2019	2019	2020					2018	2018	2019	Feb 2020
WIND													
Resultant													
-Direction	216	220	218	244	241	230	210	237	208	208	208	206	218
-Speed	1.0	1.4	1.3	1.5	1.2	0.5	0.4	0.5	0.8	1.5	2.3	2.1	1.2
Average Speed	1.6	1.9	2.0	2.0	1.4	0.6	0.4	0.5	1.0	2.2	3.2	3.0	1.7
Maximum Two-minute													
Average													
-Direction	N	N	N	N	N	N	N	WSW	SSW	WNW	SW	SSE	N
-Speed	35	33	30	38	41	24	24	19	17	19	24	20	41
-Year	2018	2018	2018	2018	2018	2018	2018	2020	2019	2018	2019	2020	May 2018
Peak Gust													
-Direction	S	W	S	N	N	WNW	WSW	SW	S	SSE	SW	S	WNW
-Speed	41	41	37	38	41	44	30	30	37	37	41	40	44
-Year	2020	2019	2020	2018	2018	2020	2019	2020	2019	2020	2019	2020	Jun 2020

* Length of record: January 2018 to December 2020

Westford

PRECIPITATION (inches)

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
2018	0.00	0.00	0.85	5.20	2.54	3.48	1.51	2.68	3.26	5.85	5.45	3.68	34.50
2019	5.28	2.85	2.49	3.84	6.22	4.20	3.62	4.50	2.44	9.55	5.00	2.26	52.25
2020	4.50	2.81	2.46	2.13	4.99	2.67	4.79	6.88	3.55	3.69	2.50	1.36	42.33

SNOWFALL (inches)

Year	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Total
2017-18							0.0	0.0	0.0	0.0	0.0	0.0	0.0
2018-19	0.0	0.0	0.0	T	27.5	9.9	47.8	15.9	19.2	1.9	0.0	0.0	122.2
2019-20	0.0	0.0	0.0	0.0	15.6	14.6	23.7	22.4	4.8	0.6	3.0	0.0	84.7
2020-21	0.0	0.0	0.0	T	4.1	10.4							

Westford

TEMPERATURE °F

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
2018	17.2	27.2	28.9	37.4	58.8	61.8	71.1	68.9	61.2	44.6	30.2	23.3	44.2
2019	14.0	19.4	27.6	42.4	51.7	62.1	70.2	65.9	46.4	43.4	29.2	24.4	41.4
2020	23.0	21.7	34.5	40.5	55.1	64.7	72.0	66.6	58.2	46.6	40.5	27.8	45.9

HEATING DEGREE DAYS: Base 65°F

Year	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Total
2017-18							1481	1049	1112	816	197	135	4790
2018-19	8	15	174	627	1037	1280	1571	1267	1152	672	401	108	8312
2019-20	8	36	350	574	1066	1250	1289	1253	936	725	343	104	7934
2020-21	0	41	217	563	725	1145							

Westford

COOLING DEGREE DAYS: Base 65°F

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total
2018	0	0	0	0	16	48	163	136	69	4	0	0	436
2019	0	0	0	0	1	31	181	74	1	0	0	0	288
2020	0	0	0	0	49	103	225	99	23	0	0	0	499

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	2001		44° 37' 38"N	73° 02' 29"W	850	22	5	5	5	5	5

INSTRUMENTATION DETAIL

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

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

Davis Vantage Pro

OBSERVER NOTES

None.