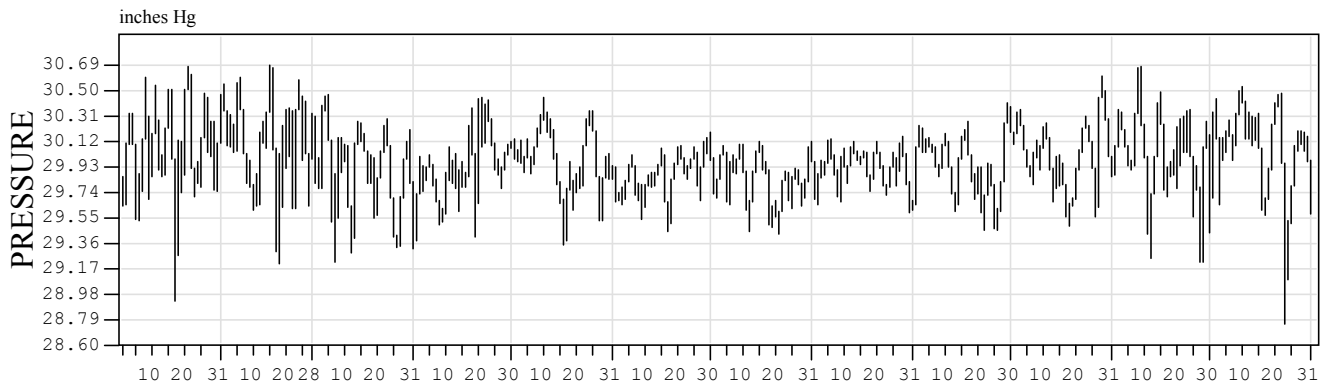
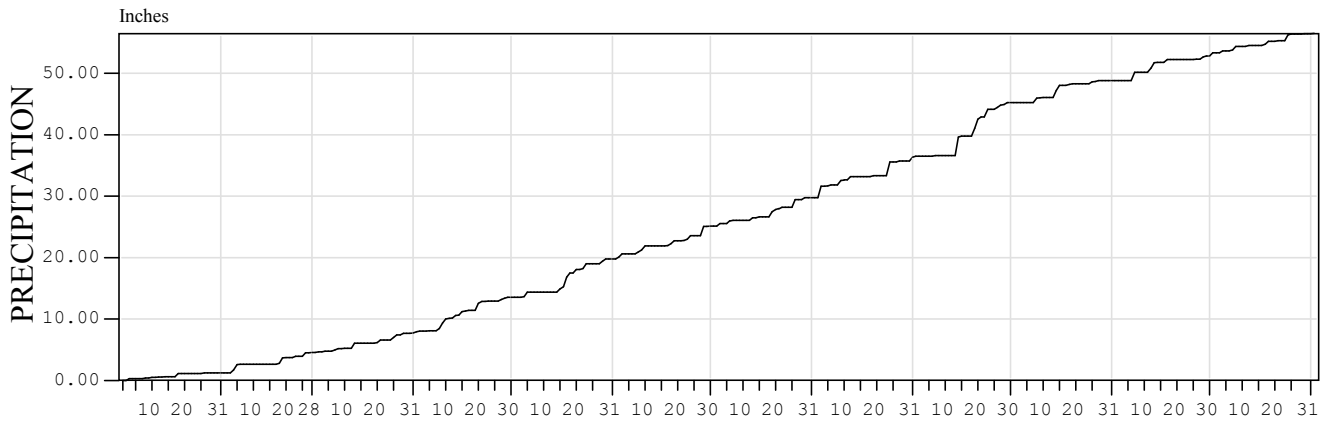
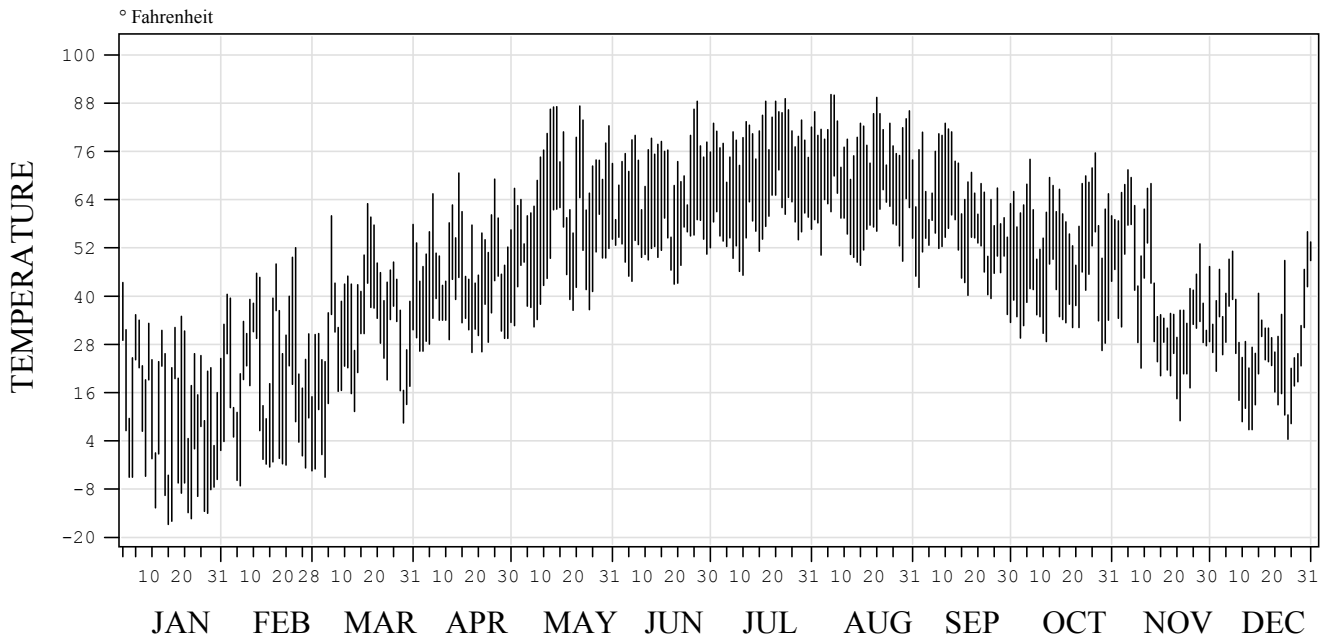


2022

LOCAL CLIMATOLOGICAL DATA

Annual Summary with Comparative Data

Westford Daily Data



METEOROLOGICAL DATA FOR 2022

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	22.0	30.7	41.5	53.3	71.7	73.6	80.7	80.4	67.9	61.7	47.7	34.6	55.5
-Daily Minimum	-0.6	8.8	22.2	33.4	46.6	51.7	57.5	57.9	49.2	38.0	31.6	21.7	34.8
-Monthly	10.7	19.7	31.8	43.3	59.2	62.7	69.1	69.1	58.6	49.8	39.7	28.2	45.2
-Monthly Dew Point	5.0	13.7	24.8	31.7	47.3	55.7	61.3	62.9	54.0	41.2	32.3	23.2	37.8
Extremes													
-Highest	43.4	52.1	63.1	70.7	87.3	88.6	89.2	90.2	83.0	75.7	71.4	56.0	90.2
-Date	1	23	17	14	21	26	23	6	10	26	5	30	Aug 6
-Lowest	-16.9	-7.2	-5.1	26.0	32.4	43.0	45.2	47.8	33.5	26.5	9.0	4.4	-16.9
-Date	15	6	4	18	7	19	10	15	30	28	21	24	Jan 15
DEGREE DAYS													
Heating Base 65°F	1679	1259	1018	643	219	87	13	9	206	462	750	1132	7477
Cooling Base 65°F	0	0	0	0	48	28	147	144	21	1	0	0	389
SOLAR RADIATION (W/m²)													
	49.4	76.6	116.6	158.9	230.3	221.3	238.6	191.6	119.9	105.0	52.4	30.3	132.6
NUMBER OF DAYS													
Sunrise to Sunset													
-Clear	10	6	2	6	8	6	8	9	6	8	6	3	78
-Partly Cloudy	4	7	12	7	15	17	18	16	9	11	6	8	130
-Cloudy	17	15	17	17	7	7	4	6	13	10	18	20	151
Precipitation													
.01 inches or more	12	10	15	18	11	16	14	14	18	14	12	13	167
Snow, Ice pellets													
1.0 inches or more	5	5	3	2	0	0	0	0	0	0	1	5	21
Thunderstorms	0	0	0	2	4	1	4	6	3	1	0	0	21
Heavy Fog, visibility													
¼ mile or less	1	0	0	0	0	0	1	0	1	0	0	0	3
TEMPERATURE:													
-Maximum													
90°F and above	0	0	0	0	0	0	0	2	0	0	0	0	2
32°F and below	26	14	8	0	0	0	0	0	0	0	3	15	66
-Minimum													
32°F and below	31	27	23	15	1	0	0	0	0	7	19	26	149
0°F and below	19	12	2	0	0	0	0	0	0	0	0	0	33
PRESSURE													
Average													
-Monthly	30.055	30.113	29.913	29.931	29.981	29.874	29.849	29.929	29.952	30.025	30.029	30.063	29.976
Extremes													
-Highest	30.69	30.69	30.48	30.45	30.45	30.19	30.13	30.17	30.42	30.62	30.68	30.54	30.69
-Date	21	15	5	21	10	30	31	28	29	28	9	10	Feb 15
-Lowest	28.93	29.22	29.23	29.38	29.35	29.45	29.43	29.59	29.46	29.50	29.23	28.76	28.76
-Date	17	18	7	1	16	17	21	30	26	18	27	23	Dec 23
RELATIVE HUMIDITY (%)													
Average													
-Monthly	75.7	74.6	75.5	68.5	69.2	79.7	78.9	85.0	88.7	77.3	75.7	80.6	77.5
Local Time													
Hour 00	79	77	80	75	79	89	89	93	94	84	79	80	83
Hour 06	79	82	84	80	85	92	92	95	96	88	81	84	86
Hour 12	71	68	68	60	56	68	68	74	80	64	69	76	68
Hour 18	75	73	71	59	58	68	67	77	85	75	75	80	72
PRECIPITATION													
Water Equivalent													
-Total	1.24	3.31	3.34	5.64	6.22	5.39	4.60	6.74	8.74	3.58	4.54	3.11	56.45
-Greatest (24 hrs)	0.00	0.00	0.17	1.23	1.88	1.53	1.23	2.22	3.17	1.95	1.50	0.00	3.17
-Date	1	1	31	7-8	16-17	27	25	23-24	13-14	13-14	11-12	1	Sep 13-14
Snow, Ice pellets													
-Total	16.3	28.1	11.8	6.1	0.0	0.0	0.0	0.0	0.0	0.0	2.6	13.9	78.8
-Greatest (day)	5.5	10.3	6.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0	2.6	3.9	10.3
-Date	17	4	12	19							16	17	Feb 4
WIND													
Resultant													
-Direction	199	195	214	236	206	215	214	201	227	189	204	187	205
-Speed	1.7	3.2	2.6	2.0	1.0	1.2	1.1	0.6	0.7	1.4	2.9	2.7	1.7
Average Speed	3.1	4.7	3.9	3.4	2.0	1.6	1.4	0.8	1.0	1.8	4.0	3.6	2.6
Maximum Two-minute													
Average													
-Direction	WSW	WSW	WSW	S	W	W	W	SW	W	WSW	WSW	SSE	WSW
-Speed	23	25	21	20	15	13	14	13	11	15	19	20	25
-Date	9	23	6	21	22	18	12	30	22	27	20	3	Feb 23
Peak Gust													
-Direction	S	S	SW	SSE	SSE	S	SSE	WSW	W	SSE	SSE	S	S
-Speed	41	46	39	39	32	31	26	23	29	26	35	49	49
-Date	27	16	6	15	26	16	25	30	22	12	6	3	Dec 3

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	25.5	30.9	40.2	51.4	67.4	75.2	81.1	79.2	66.9	56.4	42.6	33.9	54.2
-Daily Minimum	8.3	12.2	21.9	32.4	44.6	52.3	58.2	57.1	47.0	38.3	27.3	18.8	34.9
-Monthly	16.9	21.5	31.1	41.9	56.0	63.8	69.7	68.2	57.0	47.4	35.0	26.3	44.6
-Monthly Dew Point	12.6	15.5	22.0	30.8	44.3	55.5	62.4	61.9	52.6	41.3	28.9	21.7	37.4
Extremes													
-Record Highest	57.3	65.7	71.2	75.9	91.8	91.7	93.5	90.8	89.0	79.6	71.4	62.1	93.5
-Year	2018	2018	2021	2021	2020	2020	2018	2018	2018	2018	2022	2020	Jul 2018
-Record Lowest	-19.2	-12.0	-5.1	15.1	28.1	33.2	45.2	43.1	0.0	0.0	-2.7	-6.7	-19.2
-Year	2018	2020	2022	2018	2020	2020	2022	2018	2019	2019	2018	2019	Jan 2018
MEAN DEGREE DAYS													
Heating Base 65°F	1483	1218	1044	684	298	97	14	24	218	522	892	1188	7683
Cooling Base 65°F	0	0	0	0	30	69	159	130	26	1	0	0	415
MEAN SOLAR RADIATION	28.9	58.8	104.0	124.2	168.4	179.7	171.6	188.2	137.7	78.9	43.6	31.0	109.6
MEAN NUMBER OF DAYS													
Sunrise to Sunset													
-Clear	3.8	4.2	5.6	4.2	5.4	6.6	5.8	8.8	5.6	5.0	3.4	2.8	61.2
-Partly Cloudy	4.6	6.0	7.0	7.4	9.4	10.6	13.0	14.6	11.4	9.4	6.8	9.8	110.0
-Cloudy	16.4	12.2	11.8	12.2	9.8	6.8	5.6	6.4	9.2	14.2	19.8	18.2	142.6
Precipitation ≥ .01"													
Snow, Ice plts. ≥ 1.0"	13.2	9.8	11.6	17.6	14.0	14.6	13.6	15.8	12.8	17.0	17.0	17.0	174.0
Thunderstorms	6.2	4.4	1.8	1.2	0.2	0.0	0.0	0.0	0.0	0.0	3.6	4.8	22.2
Heavy Fog, vis. ≤ ¼ mi	0.0	0.2	0.4	0.4	2.2	2.8	3.6	5.4	2.0	0.8	0.0	0.0	17.8
	0.4	0.2	0.2	0.6	0.8	0.4	0.4	0.4	0.2	0.2	0.6	0.4	4.8
TEMPERATURE:													
-Maximum													
90°F and above	0.0	0.0	0.0	0.0	0.4	1.4	1.8	1.0	0.0	0.0	0.0	0.0	4.6
32°F and below	22.8	15.4	8.4	0.6	0.0	0.0	0.0	0.0	0.8	0.6	6.2	14.4	69.2
-Minimum													
32°F and below	30.2	26.8	25.2	16.2	3.0	0.0	0.0	0.0	1.6	7.8	21.2	27.8	159.8
0°F and below	10.6	6.2	0.6	0.0	0.0	0.0	0.0	0.0	0.8	0.6	0.2	1.6	20.6
PRESSURE													
Average													
-Monthly	30.034	30.064	29.996	29.885	29.954	29.876	29.900	29.925	30.018	29.327	30.013	30.002	29.916
Extremes													
-Record Highest	30.83	30.81	30.75	30.49	30.46	30.45	30.31	30.34	30.62	30.62	30.68	30.72	30.83
-Year	2018	2018	2020	2019	2019	2020	2018	2019	2020	2022	2022	2019	Jan 2018
-Record Lowest	28.93	28.90	29.20	29.01	29.35	29.39	29.41	29.28	0.00	0.00	29.16	28.76	0.00
-Year	2022	2020	2020	2020	2022	2021	2020	2020	2019	2019	2019	2022	Sep 2019
RELATIVE HUMIDITY (%)													
Average													
-Monthly	81.3	76.2	70.7	69.2	68.5	77.0	80.3	83.9	81.6	80.6	78.9	81.3	77.4
-Local Time													
Hour 00	67	63	59	60	63	70	72	93	87	88	82	83	74
Hour 06	68	65	62	63	67	73	75	95	88	90	84	84	76
Hour 12	61	55	49	48	46	53	56	72	73	72	72	76	61
Hour 18	65	60	51	47	46	52	57	75	79	81	78	81	64
PRECIPITATION													
Water Equivalent													
-Mean	2.61	2.24	2.11	4.17	4.41	3.86	3.87	5.03	4.34	5.84	4.36	2.61	45.44
-Maximum Monthly	5.28	3.31	3.34	5.64	6.22	5.39	4.84	6.88	8.74	9.55	5.45	3.68	9.55
-Year	2019	2022	2022	2022	2019	2022	2021	2020	2022	2019	2018	2018	Oct 2019
-Minimum Monthly	0.00	0.00	0.85	2.13	2.08	2.67	1.51	2.68	2.44	3.58	2.50	1.36	0.00
-Year			2018	2020	2021	2020	2018	2018	2019	2022	2020	2020	
-Greatest (24 hrs)	0.00	0.00	0.71	1.23	2.53	1.53	1.85	2.51	3.17	3.08	1.56	0.15	3.17
-Year			2021	2022	2020	2022	2019	2020	2022	2019	2019	2020	Sep 2022
Snow, Ice pellets													
-Mean	22.1	18.7	7.7	3.6	0.6	0.0	0.0	0.0	0.0	T	11.5	12.7	76.9
-Maximum Monthly	47.8	28.1	19.2	9.3	3.0	0.0	0.0	0.0	0.0	T	27.5	14.6	47.8
-Year	2019	2022	2019	2021	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	2.6	9.9	0.0
-Year											2022	2018	
-Greatest (day)	12.0	15.0	7.0	4.7	2.5	0.0	0.0	0.0	0.0	T	9.0	4.3	15.0
-Year	2019	2020	2019	2022	2020					2018	2018	2021	Feb 2020
WIND													
Resultant													
-Direction	207	203	215	240	224	212	213	206	213	198	205	196	210
-Speed	1.3	2.2	2.4	1.8	1.1	1.0	0.8	0.5	0.8	1.2	2.6	2.4	1.5
Average Speed	1.9	2.6	2.9	2.4	1.6	1.0	0.7	0.7	1.0	1.9	3.3	3.2	1.9
Maximum Two-minute													
Average													
-Direction	N	N	N	N	N	N	N	WSW	SSW	WNW	SW	WSW	N
-Speed	35	33	30	38	41	24	24	19	17	19	24	22	41
-Year	2018	2018	2018	2018	2018	2018	2018	2020	2019	2018	2019	2021	May 2018
Peak Gust													
-Direction	S	S	SW	SSE	N	WNW	WSW	SW	S	SSE	SW	S	S
-Speed	41	46	39	39	41	44	30	30	37	37	41	49	49
-Year	2020	2022	2022	2022	2018	2020	2019	2020	2019	2020	2019	2022	Dec 2022

* Length of record: January 2018 to December 2022

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
2021	2.01	2.23	1.43	4.02	2.08	3.55	4.84	4.34	3.72	6.52	4.29	2.62	41.65
2022	1.24	3.31	3.34	5.64	6.22	5.39	4.60	6.74	8.74	3.58	4.54	3.11	56.45

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	22.9	27.1	2.9	9.3	T	0.0	76.7
2021-22	0.0	0.0	0.0	0.0	7.7	14.6	16.3	28.1	11.8	6.1	0.0	0.0	84.6
2022-23	0.0	0.0	0.0	0.0	2.6	13.9							

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
2021	19.6	19.5	32.5	45.9	55.1	67.6	65.9	70.4	60.5	52.4	35.2	28.0	46.1
2022	10.7	19.7	31.8	43.3	59.2	62.7	69.1	69.1	58.6	49.8	39.7	28.2	45.2

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	1397	1264	1000	566	330	49	7297
2021-22	42	19	142	383	884	1134	1679	1259	1018	643	219	87	7509
2022-23	13	9	206	462	750	1132							

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
2021	0	0	0	0	35	136	81	196	14	0	0	0	462
2022	0	0	0	0	48	28	147	144	21	1	0	0	389

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.