

METEOROLOGICAL DATA FOR 2018

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	25.4	36.6	35.7	46.0	71.0	73.4	84.2	79.6	71.7	52.1	36.1	32.6	53.7
-Daily Minimum	9.0	17.8	22.1	28.8	46.5	50.1	58.1	58.3	50.7	37.1	24.3	14.1	34.7
-Monthly	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
-Monthly Dew Point	12.3	21.1	21.6	28.1	46.1	53.3	61.7	62.7	55.3	39.4	26.3	20.1	37.3
Extremes													
-Highest	57.3	65.7	50.0	70.5	84.2	88.9	93.5	90.8	89.0	79.6	50.8	54.8	93.5
-Date	12	21	29	24	2	30	1	6	5	10	6	21	Jul 1
-Lowest	-19.2	-9.1	1.2	15.1	32.1	37.7	46.7	43.1	34.3	25.0	-2.7	-4.6	-19.2
-Date	7	3	18	5	12	11	19	31	23	26	23	13	Jan 7
DEGREE DAYS													
Heating Base 65°F	1481	1049	1112	816	197	135	8	15	174	627	1037	1280	7931
Cooling Base 65°F	0	0	0	0	16	48	163	136	69	4	0	0	436
SOLAR RADIATION (W/m²)													
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	172.8	138.9	59.9	30.6	32.4	36.2
NUMBER OF DAYS													
Sunrise to Sunset													
-Clear	0	0	0	0	0	0	0	6	5	2	2	3	18
-Partly Cloudy	0	0	0	0	0	0	0	14	14	7	4	10	49
-Cloudy	0	0	0	0	0	0	0	7	10	20	24	18	79
Precipitation													
.01 inches or more	0	0	3	23	11	12	8	19	10	19	21	19	145
Snow, Ice pellets													
1.0 inches or more	0	0	0	0	0	0	0	0	0	0	6	3	9
Thunderstorms													
	0	0	0	0	0	0	0	7	1	0	0	0	8
Heavy Fog, visibility													
¼ mile or less	0	0	0	0	0	0	0	1	0	0	3	1	5
TEMPERATURE:													
-Maximum													
90°F and above	0	0	0	0	0	0	5	2	0	0	0	0	7
32°F and below	21	11	11	2	0	0	0	0	0	0	11	19	75
-Minimum													
32°F and below	29	25	29	23	1	0	0	0	0	11	22	30	170
0°F and below	8	2	0	0	0	0	0	0	0	0	1	3	14
PRESSURE													
Average													
-Monthly	30.086	30.124	29.918	29.916	29.936	29.869	29.997	29.935	30.119	29.955	29.988	30.044	29.991
Extremes													
-Highest	30.83	30.81	30.74	30.48	30.39	30.25	30.31	30.31	30.54	30.43	30.62	30.69	30.83
-Date	15	13	26	15	18	26	8	31	24	8	15	27	Jan 15
-Lowest	29.35	29.53	29.28	29.23	29.37	29.49	29.64	29.52	29.63	29.43	29.22	29.03	29.03
-Date	4	15	14	4	4	13	17	22	21	20	28	22	Dec 22
RELATIVE HUMIDITY (%)													
Average													
-Monthly	80.1	77.7	76.9	73.2	65.9	75.5	74.6	83.6	83.8	83.8	84.2	84.9	78.7
Local Time													
Hour 00	0	0	0	0	0	0	0	91	92	87	86	88	37
Hour 06	0	0	0	0	0	0	0	95	92	88	88	89	38
Hour 12	0	0	0	0	0	0	0	71	72	78	80	77	32
Hour 18	0	0	0	0	0	0	0	75	79	82	83	85	34
PRECIPITATION													
Water Equivalent													
-Total	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
-Greatest (24 hrs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	1.20	1.90	1.09	0.00	1.90
-Date			1	1	1	1	1	17-18	21	2- 3	2- 3	1	Oct 2- 3
Snow, Ice pellets													
-Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	27.5	9.9	37.4
-Greatest (day)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	9.0	1.9	9.0
-Date										21	16	24	Nov 16
WIND													
Resultant													
-Direction	0	0	0	0	0	0	0	246	225	252	265	241	249
-Speed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	1.2	1.3	1.0	0.3
Average Speed													
Maximum Two-minute	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	1.7	1.9	1.8	0.5
Average													
-Direction	N	N	N	N	N	N	N	WNW	WNW	WNW	W	WNW	N
-Speed	35	33	30	38	41	24	24	12	15	19	22	17	41
-Date	27	19	17	4	4	13	6	22	22	18	10	18	May 4
Peak Gust													
-Direction	N	N	N	N	N	N	N	W	SW	WNW	W	WNW	N
-Speed	36	33	30	38	41	24	24	27	32	32	33	33	41
-Date	10	19	17	4	4	13	6	29	21	16	10	18	May 4

MEANS AND EXTREMES*

Westford

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	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
TEMPERATURE													
Average													
-Daily Maximum	25.4	36.6	35.7	46.0	71.0	73.4	84.2	79.6	71.7	52.1	36.1	32.6	53.7
-Daily Minimum	9.0	17.8	22.1	28.8	46.5	50.1	58.1	58.3	50.7	37.1	24.3	14.1	34.7
-Monthly	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
-Monthly Dew Point	12.3	21.1	21.6	28.1	46.1	53.3	61.7	62.7	55.3	39.4	26.3	20.1	37.3
Extremes													
-Record Highest	57.3	65.7	50.0	70.5	84.2	88.9	93.5	90.8	89.0	79.6	50.8	54.8	93.5
-Year	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	Jul 2018
-Record Lowest	-19.2	-9.1	1.2	15.1	32.1	37.7	46.7	43.1	34.3	25.0	-2.7	-4.6	-19.2
-Year	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	Jan 2018
MEAN DEGREE DAYS													
Heating Base 65°F	1481	1049	1112	816	197	135	8	15	174	627	1037	1280	7931
Cooling Base 65°F	0	0	0	0	16	48	163	136	69	4	0	0	436
MEAN SOLAR RADIATION													
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	172.8	138.9	59.9	30.6	32.4	36.2
MEAN NUMBER OF DAYS													
Sunrise to Sunset													
-Clear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	5.0	2.0	2.0	3.0	18.0
-Partly Cloudy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	7.0	4.0	10.0	49.0
-Cloudy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	10.0	20.0	24.0	18.0	79.0
Precipitation ≥ .01"													
Snow, Ice plts. ≥ 1.0"	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	3.0	9.0
Thunderstorms	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	1.0	0.0	0.0	0.0	8.0
Heavy Fog, vis. ≤ ¼ mi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	3.0	1.0	5.0
TEMPERATURE:													
-Maximum													
90°F and above	0.0	0.0	0.0	0.0	0.0	0.0	5.0	2.0	0.0	0.0	0.0	0.0	7.0
32°F and below	21.0	11.0	11.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	19.0	75.0
-Minimum													
32°F and below	29.0	25.0	29.0	23.0	1.0	0.0	0.0	0.0	0.0	11.0	22.0	30.0	170.0
0°F and below	8.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.0	14.0
PRESSURE													
Average													
-Monthly	30.086	30.124	29.918	29.916	29.936	29.869	29.997	29.935	30.119	29.955	29.988	30.044	29.991
Extremes													
-Record Highest	30.83	30.81	30.74	30.48	30.39	30.25	30.31	30.31	30.54	30.43	30.62	30.69	30.83
-Year	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	Jan 2018
-Record Lowest	29.35	29.53	29.28	29.23	29.37	29.49	29.64	29.52	29.63	29.43	29.22	29.03	29.03
-Year	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	Dec 2018
RELATIVE HUMIDITY (%)													
Average													
-Monthly	80.1	77.7	76.9	73.2	65.9	75.5	74.6	83.6	83.8	83.8	84.2	84.9	78.7
-Local Time													
Hour 00	0	0	0	0	0	0	0	91	92	87	86	88	37
Hour 06	0	0	0	0	0	0	0	95	92	88	88	89	38
Hour 12	0	0	0	0	0	0	0	71	72	78	80	77	32
Hour 18	0	0	0	0	0	0	0	75	79	82	83	85	34
PRECIPITATION													
Water Equivalent													
-Mean	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
-Maximum Monthly	0.00	0.00	0.85	5.20	2.54	3.48	1.51	2.68	3.26	5.85	5.45	3.68	5.85
-Year			2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	Oct 2018
-Minimum Monthly	0.00	0.00	0.85	5.20	2.54	3.48	1.51	2.68	3.26	5.85	5.45	3.68	0.00
-Year			2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	
-Greatest (24 hrs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	1.20	1.90	1.09	0.00	1.90
-Year								2018	2018	2018	2018		Oct 2018
Snow, Ice pellets													
-Mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	27.5	9.9	37.4
-Maximum Monthly	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	27.5	9.9	27.5
-Year										2018	2018	2018	Nov 2018
-Minimum Monthly	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	27.5	9.9	0.0
-Year										2018	2018	2018	
-Greatest (day)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	9.0	1.9	9.0
-Year										2018	2018	2018	Nov 2018
WIND													
Resultant													
-Direction	0	0	0	0	0	0	0	246	225	252	265	241	249
-Speed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	1.2	1.3	1.0	0.3
Average Speed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	1.7	1.9	1.8	0.5
Maximum Two-minute													
Average													
-Direction	N	N	N	N	N	N	N	WNW	WNW	WNW	W	WNW	N
-Speed	35	33	30	38	41	24	24	12	15	19	22	17	41
-Year	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	May 2018
Peak Gust													
-Direction	N	N	N	N	N	N	N	W	SW	WNW	W	WNW	N
-Speed	36	33	30	38	41	24	24	27	32	32	33	33	41
-Year	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	May 2018

* Length of record: January 2018 to December 2018

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

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							0.0

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

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							

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

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	present	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.