U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

Climatography of the United States No. 20 1971-2000

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: ENOSBURG FALLS, VT **COOP ID: 432769**

Climate Division: VT 1 **NWS Call Sign:** **Elevation: 420 Feet** **Lat: 44˚52N** **Lon: 72˚49W**

Temperature (˚F)

Mean (1)				Extremes										Degree Days (1) Base Temp 65		Mean Number of Days (3)					
Month	Daily Max	Daily Min	Mean	Highest Daily(2)	Year	Day	Highest Month(1) Mean	Year	Lowest Daily(2)	Year	Day	Lowest Month(1) Mean	Year	Heating	Cooling	Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	28.1	5.3	16.7	68	1950	4	29.4	1990	-41+	1957	15	4.6	1994	1497	0	.0	.0	1.2	20.1	29.5	12.3
Feb	31.4	7.1	19.3	62+	1981	22	32.3	1981	-40	1963	4	6.9	1979	1282	0	.0	.0	1.7	15.8	26.6	10.2
Mar	41.8	18.9	30.4	82	1990	16	37.8	1973	-31	1950	4	22.0	1984	1074	0	.0	.0	7.6	6.3	26.4	3.4
Apr	55.3	31.2	43.3	88	1990	27	49.2	1987	-2	1972	8	35.8	1975	652	0	.0	.0	19.9	.6	17.2	@
May	69.3	42.7	56.0	92	1977	22	61.4	1998	21+	1956	8	50.4	1997	289	9	.0	.3	30.4	.0	4.7	.0
Jun	76.5	51.7	64.1	95	1953	21	69.3	1999	27	1986	3	60.9	1986	78	52	.0	.7	30.0	.0	.2	.0
Jul	80.5	56.4	68.5	98	1953	18	71.7	1995	34	1992	2	64.1	1992	18	125	.0	1.5	31.0	.0	.0	.0
Aug	78.1	54.6	66.4	95+	1952	28	70.0	1973	31+	1965	31	63.2	1982	41	82	.0	.5	31.0	.0	@	.0
Sep	69.4	46.9	58.2	94	1953	3	62.7	1999	22	1980	29	54.0	1978	213	7	.0	.1	29.8	.0	2.0	.0
Oct	58.7	36.6	47.7	89	1949	11	53.0	1995	11	1972	20	42.5	1974	538	0	.0	.0	25.1	.0	10.9	.0
Nov	45.1	27.6	36.4	77	1950	2	42.1	1999	-9+	1951	28	31.5	1972	860	0	.0	.0	9.1	3.8	20.4	.3
Dec	32.9	13.5	23.2	66	1998	7	32.0	1996	-37	1980	26	5.1	1989	1296	0	.0	.0	2.2	14.3	28.5	6.4
Ann	55.6	32.7	44.2	98	Jul 1953	18	71.7	Jul 1995	-41+	Jan 1957	15	4.6	Jan 1994	7838	275	.0	3.1	219.0	60.9	166.4	32.6

+ Also occurred on an earlier date(s)

@ Denotes mean number of days greater than 0 but less than .05

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

(3) Derived from 1971-2000 serially complete daily data

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	2.75	2.56	2.02	1998	8	6.19	1998	1.00	1988
Feb	2.13	1.96	2.12	1951	7	5.18	1981	.55	1978
Mar	2.96	3.14	1.80	1972	18	4.93	1974	.78	1996
Apr	3.28	3.09	1.92	1968	25	6.06	1974	.88	1999
May	3.91	3.84	1.76	1974	23	7.74	1983	.95	1982
Jun	3.89	3.77	3.25	1984	7	7.73	1987	1.32	1983
Jul	4.48	4.46	3.36	1984	7	7.40	1972	1.29	1991
Aug	4.76	4.73	2.31	1949	29	7.97	1988	2.02	1999
Sep	4.29	4.23	3.68	1999	17	8.52	1977	1.84	1972
Oct	3.84	3.85	1.95	1992	10	7.34	1995	1.28	1974
Nov	4.11	3.94	2.91	1990	11	8.18	1983	1.60	1991
Dec	3.08	2.78	2.01	1996	2	6.98	1972	1.35	1999
Ann	43.48	42.60	3.68	Sep 1999	17	8.52	Sep 1977	.55	Feb 1978

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	14.0	7.6	1.4	.1
Feb	10.5	5.9	1.0	.2
Mar	12.6	8.1	1.4	.3
Apr	13.4	9.1	1.9	.3
May	14.6	9.9	2.5	.6
Jun	13.2	8.8	2.4	.7
Jul	13.3	9.5	2.8	.7
Aug	13.8	9.1	3.4	1.1
Sep	13.7	8.3	2.8	1.0
Oct	14.2	9.0	2.3	.7
Nov	15.2	9.5	2.6	.7
Dec	14.7	8.9	1.5	.2
Ann	163.2	103.7	26.0	6.6

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	1.09	1.34	1.71	2.00	2.29	2.57	2.88	3.24	3.70	4.39	5.03
Feb	.72	.92	1.21	1.46	1.70	1.95	2.22	2.53	2.94	3.56	4.14
Mar	1.25	1.52	1.89	2.20	2.49	2.79	3.10	3.47	3.93	4.63	5.27
Apr	1.38	1.68	2.10	2.44	2.76	3.09	3.43	3.84	4.34	5.12	5.82
May	1.43	1.79	2.32	2.77	3.19	3.62	4.09	4.64	5.33	6.41	7.39
Jun	1.44	1.80	2.33	2.76	3.18	3.60	4.06	4.60	5.28	6.33	7.29
Jul	1.95	2.35	2.91	3.37	3.80	4.23	4.69	5.23	5.90	6.92	7.84
Aug	2.56	2.94	3.45	3.86	4.23	4.60	4.99	5.43	5.97	6.79	7.51
Sep	1.98	2.35	2.87	3.30	3.69	4.08	4.50	4.98	5.59	6.50	7.32
Oct	1.59	1.94	2.43	2.84	3.22	3.60	4.02	4.50	5.11	6.03	6.87
Nov	2.09	2.43	2.90	3.27	3.61	3.95	4.31	4.72	5.23	5.99	6.68
Dec	1.15	1.44	1.85	2.20	2.53	2.86	3.23	3.65	4.19	5.01	5.77
Ann	34.58	36.38	38.64	40.33	41.81	43.22	44.67	46.25	48.15	50.87	53.19

\+ Also occurred on an earlier date(s)
\# Denotes amounts of a trace
@ Denotes mean number of days greater than 0 but less than .05
****** Statistics not computed because less than six years out of thirty had measurable precipitation

(1) From the 1971-2000 Monthly Normals
(2) Derived from station's available digital record: 1948-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	22.6	21.0	9	8
Feb	16.8	16.0	9	9
Mar	15.6	15.0	4	3
Apr	5.6	3.6	1	#
May	.1	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	#	.0	0	0
Oct	.3	#	#	0
Nov	8.4	7.8	1	1
Dec	21.4	20.0	4	3
Ann	90.8	83.4	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	13.0	1977	20	43.5	1977	30	1977	20	17	1977
Feb	20.0	1995	5	30.5	2000	26	2000	18	19	1977
Mar	24.0	1993	14	41.0	1993	30	1993	14	16	1994
Apr	11.0	1983	17	21.6	1975	18	1975	7	12	1975
May	1.5	1978	2	1.7	1978	#+	1996	13	#+	1996
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	#	1992	30	#+	1992	0	0	0	0	0
Oct	5.0	1997	24	5.0	1997	1	2000	29	#+	2000
Nov	10.0	1989	21	20.0	1976	9	1996	27	4	1996
Dec	13.0	1989	16	45.5	1995	25	1995	27	16	1995
Ann	24.0	Mar 1993	14	45.5	Dec 1995	30+	Mar 1993	14	19	Feb 1977

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	11.7	8.2	2.5	1.0	.1
Feb	8.7	6.5	2.2	.7	.1
Mar	7.7	5.7	1.8	.7	.2
Apr	2.8	2.0	.7	.3	.1
May	.1	@	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.3	.1	.1	@	.0
Nov	5.0	3.1	.7	.3	@
Dec	10.3	7.3	2.0	.8	.1
Ann	46.6	32.9	10.0	3.8	.6

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9
Mar	13.4	10.5	7.7	4.3
Apr	1.7	1.2	.6	.1
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.1	.0	.0	.0
Nov	6.1	2.6	1.5	.0
Dec	18.2	11.7	8.8	4.3
Ann	-9.9	-9.9	-9.9	-9.9

+ Also occurred on an earlier date(s) #Denotes trace amounts

@ Denotes mean number of days greater than 0 but less than .05

-9/-9.9 represents missing values
Annual statistics for Mean/Median snow depths are not appropriate

(1) Derived from Snow Climatology and 1971-2000 daily data

(2) Derived from 1971-2000 daily data

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Freeze Data

Spring Freeze Dates (Month/Day)

Temp (F)	Probability of later date in spring (thru Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	6/24	6/18	6/14	6/10	6/07	6/03	5/31	5/27	5/21
32	6/04	5/30	5/27	5/24	5/21	5/18	5/15	5/12	5/07
28	5/22	5/18	5/15	5/12	5/10	5/08	5/05	5/02	4/28
24	5/06	5/02	4/30	4/28	4/26	4/24	4/22	4/19	4/16
20	4/23	4/20	4/17	4/15	4/13	4/11	4/09	4/07	4/04
16	4/17	4/12	4/09	4/07	4/04	4/02	3/30	3/27	3/23

Fall Freeze Dates (Month/Day)

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	8/27	9/01	9/04	9/07	9/09	9/12	9/15	9/18	9/22
32	9/12	9/15	9/18	9/20	9/22	9/24	9/27	9/29	10/03
28	9/24	9/28	9/30	10/02	10/05	10/07	10/09	10/11	10/15
24	10/03	10/08	10/12	10/15	10/18	10/21	10/25	10/28	11/03
20	10/13	10/18	10/22	10/25	10/29	11/01	11/04	11/08	11/14
16	11/01	11/05	11/08	11/10	11/13	11/15	11/17	11/20	11/24

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	116	108	103	98	94	89	84	79	71
32	142	135	131	127	124	120	116	112	106
28	162	156	153	150	147	144	141	137	132
24	193	187	182	178	175	171	167	163	156
20	215	209	205	201	198	194	190	186	180
16	239	233	229	225	221	218	214	210	204

***** Probability of observing a temperature as cold, or colder, later in the spring or earlier in the fall than the indicated date.

0/00 Indicates that the probability of occurrence of threshold temperature is less than the indicated probability.

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Degree Days to Selected Base Temperatures (˚F)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1497	1282	1074	652	289	78	18	41	213	538	860	1296	7838
60	1342	1142	919	504	165	20	1	5	99	387	710	1141	6435
57	1249	1058	826	418	108	6	0	1	54	300	620	1048	5688
55	1187	1002	764	363	78	2	0	0	34	247	560	986	5223
50	1032	862	612	239	29	0	0	0	7	135	411	831	4158
32	504	398	174	15	0	0	0	0	0	1	51	351	1494

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	30	40	123	353	743	964	1130	1064	785	486	181	78	5977
55	0	0	0	11	109	277	417	351	128	19	0	0	1312
57	0	0	0	6	77	220	355	290	89	10	0	0	1047
60	0	0	0	2	41	144	262	201	44	4	0	0	698
65	0	0	0	0	9	52	125	82	7	0	0	0	275
70	0	0	0	0	1	9	37	18	0	0	0	0	65

Growing Degree Units (2)

Base	Growing Degree Units (Monthly)												Growing Degree Units (Accumulated Monthly)											
	Jan	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
40	3	5	42	167	497	728	887	823	547	258	75	10	3	8	50	217	714	1442	2329	3152	3699	3957	4032	4042
45	1	1	14	91	349	578	732	668	398	153	37	1	1	2	16	107	456	1034	1766	2434	2832	2985	3022	3023
50	0	0	4	41	219	431	577	513	262	75	12	0	0	0	4	45	264	695	1272	1785	2047	2122	2134	2134
55	0	0	1	17	119	286	422	359	149	29	4	0	0	0	1	18	137	423	845	1204	1353	1382	1386	1386
60	0	0	0	5	54	163	273	218	74	4	0	0	0	0	0	5	59	222	495	713	787	791	791	791
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	31	118	320	463	585	531	333	157	44	3	0	0	31	149	469	932	1517	2048	2381	2538	2582	2585

(1) Derived from the 1971-2000 Monthly Normals
(2) Derived from 1971-2000 serially complete daily data
Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86

Complete documentation available from:
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Notes

a. The monthly means are simple arithmetic averages computed by summing the monthly values for the period 1971-2000 and dividing by thirty. Prior to averaging, the data are adjusted if necessary to compensate for data quality issues, station moves or changes in station reporting practices. Missing months are replaced by estimates based on neighboring stations.

b. The median is defined as the middle value in an ordered set of values. The median is being provided for the snow and precipitation elements because the mean can be a misleading value for precipitation normals.

c. Only observed validated values were used to select the extreme daily values.

d. Extreme monthly temperature/precipitation means were selected from the monthly normals data.
Monthly snow extremes were calculated from daily values quality controlled to be consistent with the Snow Climatology.

e. Degree Days were derived using the same techniques as the 1971-2000 normals.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

f. Mean "number of days statistics" for temperature and precipitation were calculated from a serially complete daily data set .
Documentation of the serially complete data set is available from the link below:

g. Snowfall and snow depth statistics were derived from the Snow Climatology.
Documentation for the Snow Climatology project is available from the link under references.

Data Sources for Tables

Several different data sources were used to create the Clim20 climate summaries. In some cases the daily extremes appear inconsistent with the monthly extremes and or the mean number of days statistics. For example, a high daily extreme value may not be reflected in the highest monthly value or the mean number of days threshold that is less than and equal to the extreme value. Some of these difference are caused by different periods of record. Daily extremes are derived from the station's entire period of record while the serial data and normals data were are for the 1971-2000 period. Therefore extremes observed before 1971 would not be included in the 1971-2000 normals or the 1971-2000 serial daily data set. Inconsistencies can also occur when monthly values are adjusted to reflect the current observing conditions or were replaced during the 1971-2000 Monthly Normals processing and are not reconciled with the Summary of the Day data.

a. Temperature/ Precipitation Tables
   1. 1971-2000 Monthly Normals
   2. Cooperative Summary of the Day
   3. National Weather Service station records
   4. 1971-2000 serially complete daily data

b. Degree Day Table
   1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
   2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data

c. Snow Tables
   1. Snow Climatology
   2. Cooperative Summary of the Day

d. Freeze Data Table
   1971-2000 serially complete daily data

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/usnormalsprods.html
Snow Climatology Project Description, www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html
Eischeid, J. K., P. Pasteris, H. F. Diaz, M. Plantico, and N. Lott, 2000: Creating a serially complete, national daily time series of temperature and precipitation for the Western United States. J. Appl. Meteorol., 39, 1580-1591,
www1.ncdc.noaa.gov/pub/data/special/ serialcomplete_jam_0900.pdf