

Climatography of the United States

No. 20

1971-2000

Station: CORNWALL, VT

COOP ID: 431580

Climate Division: VT 2

NWS Call Sign:

Elevation: 400 Feet Lat: 43° 58N Lon: 73° 14W

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	27.1	8.8	18.0	64	1995	15	27.9	1990	-30	1994	27	6.4	1994	1459	0	.0	.0	.9	19.4	29.3	8.4
Feb	30.0	9.6	19.8	62	1957	26	31.6	1981	-29+	1979	12	8.9	1979	1266	0	.0	.0	1.3	14.8	26.1	6.7
Mar	40.7	21.5	31.1	82+	1946	29	39.1	1973	-19	1938	4	22.8	1984	1050	0	.0	.0	6.7	5.5	26.1	1.3
Apr	54.6	34.1	44.4	90+	1976	18	49.5	1986	2	1972	7	37.8	1972	620	0	.0	.1	20.1	.2	14.1	.0
May	68.2	46.1	57.2	95	1929	30	63.6	1975	20	1966	10	51.6	1997	261	16	.0	.2	30.4	.0	1.9	.0
Jun	76.1	54.6	65.4	99	1964	30	69.2	1999	31	1972	11	61.2	1985	64	74	.0	1.2	30.0	.0	@	.0
Jul	81.0	59.3	70.2	100	1953	18	74.7	1975	39	1978	2	64.9	1992	13	173	.0	2.1	31.0	.0	.0	.0
Aug	78.0	57.0	67.5	100+	1933	1	72.5	1973	32+	1982	29	63.4	1982	36	114	@	.8	31.0	.0	.1	.0
Sep	69.2	48.4	58.8	96	1929	4	63.2	1999	22+	2000	29	55.2	1984	196	10	.0	.2	29.9	.0	.9	.0
Oct	57.2	37.4	47.3	88	1963	7	53.7	1971	13	1974	19	42.8	1974	548	0	.0	.0	24.5	.0	9.3	.0
Nov	44.5	28.3	36.4	77	1948	6	42.9	1999	-5	1938	26	31.3	1996	859	0	.0	.0	9.3	2.8	19.3	.0
Dec	32.7	16.3	24.5	67	1941	5	30.6	1996	-32	1933	30	7.5	1989	1257	0	.0	.0	1.9	14.0	28.9	3.3
Ann	54.9	35.1	45.1	100+	Jul 1953	18	74.7	Jul 1975	-32	Dec 1933	30	6.4	Jan 1994	7629	387	@	4.6	217.0	56.7	156.0	19.7

+ 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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1926-2001

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

005-A

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: CORNWALL, VT

COOP ID: 431580

Climate Division: VT 2

NWS Call Sign:

Elevation: 400 Feet Lat: 43°58N

Lon: 73°14W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	2.41	2.15	2.15	1935	9	5.71	1979	.30	1981	11.0	6.0	1.7	.3	.59	.81	1.16	1.48	1.79	2.11	2.48	2.91	3.48	4.38	5.23
Feb	1.88	1.71	2.08	1981	2	5.90	1981	.31	1987	7.8	4.2	1.0	.2	.41	.58	.86	1.11	1.36	1.63	1.93	2.29	2.76	3.52	4.23
Mar	2.43	2.40	2.05	1978	27	3.46	1978	.82	1981	9.1	5.9	1.4	.3	1.26	1.46	1.73	1.94	2.14	2.34	2.54	2.78	3.07	3.51	3.90
Apr	2.65	2.40	2.06	1968	25	5.56	1983	1.07	1986	10.2	6.3	1.6	.1	1.11	1.35	1.68	1.96	2.22	2.49	2.77	3.10	3.51	4.15	4.72
May	3.35	3.07	2.40	1928	22	6.91	1984	.41	1977	12.6	8.1	2.1	.5	.95	1.27	1.75	2.17	2.57	3.00	3.47	4.02	4.74	5.87	6.93
Jun	3.14	3.01	3.61	1952	1	6.06	1998	.60	1988	12.1	7.8	1.8	.3	1.08	1.38	1.81	2.17	2.52	2.89	3.28	3.74	4.33	5.24	6.08
Jul	3.51	3.59	2.40	1990	23	6.09	1996	1.44	1983	11.6	7.7	2.3	.5	1.67	1.97	2.39	2.73	3.04	3.35	3.68	4.06	4.54	5.26	5.90
Aug	4.11	3.75	4.70	1986	18	9.25	1986	1.03	1999	11.5	7.5	2.7	.8	1.60	1.98	2.52	2.97	3.40	3.84	4.31	4.85	5.55	6.61	7.58
Sep	3.66	3.35	3.98	1999	17	8.23	1999	1.67	1984	10.6	7.1	2.5	.9	1.56	1.89	2.36	2.74	3.09	3.45	3.84	4.29	4.85	5.71	6.48
Oct	3.31	3.13	3.15	1932	6	9.18	1995	.35	1994	10.7	6.6	2.1	.7	.79	1.10	1.58	2.01	2.44	2.89	3.40	4.01	4.80	6.06	7.24
Nov	3.06	2.93	2.50	1927	2	5.18	1988	1.36	1991	11.2	6.9	2.1	.5	1.56	1.81	2.16	2.43	2.68	2.94	3.20	3.51	3.88	4.45	4.96
Dec	2.59	2.25	2.71	1973	21	7.44	1973	.84	1988	11.1	6.3	1.4	.3	.78	1.03	1.39	1.71	2.02	2.34	2.69	3.10	3.64	4.47	5.25
Ann	36.10	36.18	4.70	Aug 1986	18	9.25	Aug 1986	.30	Jan 1981	129.5	80.4	22.7	5.4	27.58	29.27	31.41	33.03	34.45	35.81	37.21	38.74	40.60	43.26	45.54

+ 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: 1926-2001

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

Complete documentation available from:
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1971-2000

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Station: CORNWALL, VT

COOP ID: 431580

Climate Division: VT 2

NWS Call Sign:

Elevation: 400 Feet

Lat: 43°58N

Lon: 73°14W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										Snow Fall >= Thresholds					Snow Depth >= Thresholds			
Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	19.0	16.0	6	4	12.5	1978	18	45.0	1978	25	1994	18	16	1971	7.0	5.0	2.0	1.2	.1	-9.9	-9.9	-9.9	-9.9
Feb	13.3	13.5	8	6	9.5	1972	26	27.0	1972	22+	2000	20	17	1987	5.5	4.1	1.7	.9	.0	-9.9	-9.9	-9.9	-9.9
Mar	12.4	10.6	4	2	11.0	1994	3	35.5	1971	26	1971	11	20	1994	4.0	3.3	1.4	.7	@	-9.9	-9.9	-9.9	-9.9
Apr	3.8	1.0	#	#	12.0	1983	17	16.0	1983	11	1975	7	1+	2000	1.1	1.0	.3	.2	@	.8	.3	.1	.1
May	#	.0	#	0	#	1977	9	#+	1977	#	1986	4	#	1986	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.4	.0	#	0	5.6	2000	30	5.6	2000	5	2000	30	#+	2000	.3	.2	@	@	.0	.1	@	@	.0
Nov	5.9	4.0	#	#	14.0	1971	25	23.5	1971	14	1971	25	1	1986	1.7	1.4	.6	.3	@	.9	.4	.1	.0
Dec	14.0	14.5	3	1	14.0	1978	25	37.0	1972	15+	1984	7	11	1975	5.4	4.4	1.5	.8	@	-9.9	-9.9	-9.9	-9.9
Ann	68.8	59.6	N/A	N/A	14.0+	Dec 1978	25	45.0	Jan 1978	26	Mar 1971	11	20	Mar 1994	25.0	19.4	7.5	4.1	.1	-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

Complete documentation available from:

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No. 20 1971-2000

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Climate Division: VT 2

NWS Call Sign:

Elevation: 400 Feet

Lat: 43° 58N

Lon: 73° 14W

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	6/13	6/07	6/02	5/29	5/26	5/22	5/18	5/13	5/07
32	5/26	5/20	5/16	5/12	5/09	5/05	5/02	4/27	4/22
28	5/11	5/06	5/02	4/28	4/25	4/22	4/19	4/15	4/09
24	4/29	4/24	4/21	4/18	4/15	4/12	4/09	4/06	4/01
20	4/21	4/16	4/12	4/09	4/07	4/04	4/01	3/28	3/23
16	4/10	4/05	4/01	3/29	3/26	3/23	3/20	3/16	3/11
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	9/05	9/10	9/14	9/17	9/20	9/23	9/26	9/30	10/05
32	9/14	9/19	9/24	9/27	9/30	10/04	10/07	10/11	10/17
28	9/25	9/30	10/04	10/07	10/10	10/13	10/16	10/20	10/25
24	10/02	10/09	10/14	10/18	10/22	10/26	10/31	11/05	11/12
20	10/21	10/26	10/30	11/02	11/06	11/09	11/12	11/16	11/21
16	11/01	11/06	11/11	11/14	11/18	11/21	11/24	11/29	12/04
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	141	132	126	121	117	112	107	101	92
32	169	160	154	149	144	139	134	128	119
28	190	182	176	172	167	162	157	152	144
24	215	206	200	195	190	185	179	173	164
20	237	229	222	217	212	207	202	196	187
16	261	253	246	241	236	231	225	219	210

* 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.

Derived from 1971-2000 serially complete daily data

Complete documentation available from:

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Climate Division: VT 2 NWS Call Sign: Elevation: 400 Feet Lat: 43° 58N Lon: 73° 14W

Degree Days to Selected Base Temperatures (° F)													
Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1459	1266	1050	620	261	64	13	36	196	548	859	1257	7629
60	1304	1126	895	472	146	16	0	6	88	396	709	1102	6260
57	1211	1042	802	387	94	5	0	1	46	309	619	1009	5525
55	1149	986	740	333	67	2	0	0	28	255	559	947	5066
50	994	846	587	211	24	0	0	0	5	140	410	792	4009
32	463	372	147	9	0	0	0	0	0	1	45	301	1338

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	28	31	119	379	779	1000	1183	1101	804	476	176	67	6143
55	0	0	0	13	133	312	470	388	142	17	0	0	1475
57	0	0	0	7	98	255	408	326	100	9	0	0	1203
60	0	0	0	2	57	176	315	238	52	3	0	0	843
65	0	0	0	0	16	74	173	114	10	0	0	0	387
70	0	0	0	0	3	18	70	37	1	0	0	0	129

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	192	537	769	941	861	592	265	75	6	3	8	50	242	779	1548	2489	3350	3942	4207	4282	4288
45	0	0	19	105	385	619	786	706	443	159	37	2	0	0	19	124	509	1128	1914	2620	3063	3222	3259	3261
50	0	0	6	55	246	469	631	551	299	77	13	0	0	0	6	61	307	776	1407	1958	2257	2334	2347	2347
55	0	0	2	22	138	325	476	397	176	29	2	0	0	0	2	24	162	487	963	1360	1536	1565	1567	1567
60	0	0	0	10	62	193	322	252	87	6	0	0	0	0	0	10	72	265	587	839	926	932	932	932
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	1	26	122	324	492	629	561	351	146	39	3	0	1	27	149	473	965	1594	2155	2506	2652	2691	2694

(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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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