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: SALISBURY 2 N, VT **COOP ID: 437098**

Climate Division: VT 2 **NWS Call Sign:** **Elevation: 420 Feet** **Lat: 43˚56N** **Lon: 73˚06W**

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	.0	.0	.0	68	1996	19	.0	0	-37	1994	27	.0	0	0	0	.0	.0	1.1	19.2	30.1	7.7
Feb	.0	.0	.0	65	1997	22	.0	0	-32	1993	7	.0	0	0	0	.0	.0	1.4	14.1	26.7	6.3
Mar	.0	.0	.0	88	1998	31	.0	0	-20	1993	15	.0	0	0	0	.0	.0	7.4	1.6	30.0	.8
Apr	.0	.0	.0	83	2001	23	.0	0	8+	1992	14	.0	0	0	0	.0	.0	20.9	.2	15.7	.0
May	.0	.0	.0	90+	1992	23	.0	0	22	1995	7	.0	0	0	0	.0	.1	30.9	.0	2.5	.0
Jun	.0	.0	.0	96	1999	7	.0	0	31	1993	5	.0	0	0	0	.0	1.8	30.0	.0	.1	.0
Jul	.0	.0	.0	100	1995	14	.0	0	38	2001	27	.0	0	0	0	@	2.6	31.0	.0	.0	.0
Aug	.0	.0	.0	98	2001	8	.0	0	37	1995	28	.0	0	0	0	.0	.9	31.0	.0	.0	.0
Sep	.0	.0	.0	96	1999	4	.0	0	22	2000	29	.0	0	0	0	.0	.1	30.0	.0	1.1	.0
Oct	.0	.0	.0	81	1995	13	.0	0	17	2001	31	.0	0	0	0	.0	.0	25.7	.0	7.0	.0
Nov	.0	.0	.0	74+	1991	20	.0	0	3+	1993	25	.0	0	0	0	.0	.0	7.7	.6	19.8	.0
Dec	.0	.0	.0	67	2001	6	.0	0	-17	1993	27	.0	0	0	0	.0	.0	1.0	11.1	29.3	3.6
Ann	.0	.0	.0	100	Jul 1995	14	-99.9	0	-37	Jan 1994	27	99.9	0	0	0	@	5.5	218.1	46.8	162.3	18.4

\+ 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	2.40	2.13	1.98	1998	8	5.37	1979	.10	1981
Feb	2.04	1.93	2.00	1982	1	5.39	1981	.00	1987
Mar	2.39	2.46	1.82	1964	5	3.45	1978	.95	1995
Apr	2.89	2.78	2.17	1968	25	4.90	1983	.70	1986
May	3.68	3.80	2.50	1984	31	8.25	1984	1.14	1977
Jun	3.73	3.43	3.77	1973	30	8.43	1998	.73	1988
Jul	4.15	4.19	2.50	1998	1	8.28	1996	1.44	1983
Aug	4.29	4.10	3.28	1964	23	8.73	1976	1.06	1999
Sep	4.08	4.27	3.81	1999	17	8.12	1999	.97	1972
Oct	3.39	3.07	2.17	1995	28	7.66	1995	.58	1994
Nov	3.34	3.12	2.75	1950	26	6.08	1988	.82	1978
Dec	2.66	2.19	2.39	1948	31	7.64	1973	.86	1998
Ann	39.04	38.24	3.81	Sep 1999	17	8.73	Aug 1976	.00	Feb 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.0	5.4	1.5	.4
Feb	6.7	4.3	1.1	.4
Mar	8.4	5.7	1.5	.3
Apr	10.3	7.2	1.7	.2
May	11.6	8.0	2.4	.6
Jun	10.9	7.6	2.4	.6
Jul	10.7	7.3	3.1	1.0
Aug	10.3	7.6	2.9	1.1
Sep	9.9	7.1	2.7	1.3
Oct	9.7	6.8	2.2	.9
Nov	9.4	6.9	2.3	.5
Dec	9.4	6.1	1.6	.3
Ann	116.3	80.0	25.4	7.6

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	.43	.64	.99	1.32	1.65	2.01	2.42	2.92	3.59	4.65	5.68
Feb	.40	.69	1.03	1.31	1.57	1.84	2.14	2.49	2.95	3.66	4.32
Mar	1.18	1.38	1.66	1.88	2.09	2.29	2.51	2.76	3.07	3.53	3.95
Apr	1.26	1.52	1.88	2.17	2.45	2.73	3.03	3.37	3.80	4.45	5.05
May	1.39	1.73	2.22	2.63	3.02	3.42	3.85	4.35	4.99	5.97	6.86
Jun	1.24	1.60	2.11	2.55	2.98	3.41	3.89	4.45	5.17	6.28	7.31
Jul	1.60	1.98	2.54	2.99	3.43	3.87	4.35	4.90	5.61	6.69	7.68
Aug	1.85	2.23	2.77	3.22	3.63	4.05	4.50	5.02	5.67	6.67	7.57
Sep	1.48	1.86	2.41	2.88	3.32	3.77	4.26	4.83	5.56	6.69	7.72
Oct	.99	1.31	1.79	2.21	2.62	3.05	3.52	4.07	4.79	5.91	6.95
Nov	1.51	1.81	2.22	2.55	2.86	3.17	3.50	3.88	4.36	5.09	5.75
Dec	.79	1.05	1.43	1.75	2.07	2.40	2.77	3.20	3.75	4.62	5.42
Ann	30.00	31.80	34.08	35.79	37.30	38.75	40.23	41.86	43.82	46.64	49.06

\+ 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)

Extremes (2)

Mean Number of Days (1)

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	13.0	11.3	6	5	13.0	1996	3	36.5	1987	25+	1996	13	17	1996	5.5	4.5	1.8	1.1	.2	20.6	16.8	12.4	6.9
Feb	10.4	11.8	7	5	13.0	1978	7	21.0	1993	24	1994	9	19	1982	3.8	3.0	1.5	.6	.1	21.0	18.3	13.6	6.6
Mar	10.5	9.0	4	2	17.5	1993	14	29.8	1993	32	1993	15	14+	1994	3.2	2.7	1.3	.6	.2	12.2	9.3	7.6	3.0
Apr	3.1	1.5	#	#	12.2	2000	9	16.3	2000	11	2000	9	1+	2000	1.1	1.0	.3	.1	.1	1.3	.5	.3	.1
May	#	.0	#	0	#	1996	13	#+	1996	#+	1995	6	#+	1995	.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	.2	.0	#	0	2.9	2000	29	3.9	2000	4	1987	5	#+	2000	.1	.1	.0	.0	.0	@	@	.0	.0
Nov	5.6	4.3	#	#	7.5	1977	13	23.0	1997	8+	1997	16	3	1997	2.0	1.6	.6	.2	.0	2.8	1.6	.5	.0
Dec	10.1	8.5	3	2	9.5	1978	25	24.0	1981	22	1981	23	10	1981	4.6	3.6	1.4	.6	.0	12.1	6.9	3.7	.6
Ann	52.9	46.4	N/A	N/A	17.5	Mar 1993	14	36.5	Jan 1987	32	Mar 1993	15	19	Feb 1982	20.3	16.5	6.9	3.2	.6	70.0	53.4	38.1	17.2

+ 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	6/13	6/08	6/04	6/01	5/29	5/26	5/23	5/19	5/13
32	5/28	5/22	5/18	5/15	5/12	5/08	5/05	5/01	4/25
28	5/16	5/11	5/07	5/03	4/30	4/27	4/23	4/19	4/13
24	5/05	4/29	4/25	4/21	4/18	4/15	4/11	4/07	4/01
20	4/19	4/14	4/11	4/09	4/06	4/04	4/01	3/29	3/25
16	4/09	4/04	4/01	3/29	3/26	3/23	3/20	3/17	3/12

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	9/09	9/13	9/15	9/18	9/20	9/22	9/24	9/26	9/30
32	9/16	9/22	9/27	10/02	10/06	10/10	10/14	10/19	10/25
28	9/27	10/06	10/12	10/17	10/22	10/27	11/01	11/08	11/16
24	10/09	10/17	10/22	10/27	10/31	11/05	11/09	11/15	11/23
20	10/29	11/02	11/05	11/08	11/11	11/13	11/16	11/19	11/23
16	11/07	11/12	11/16	11/19	11/22	11/25	11/28	12/01	12/06

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	133	126	121	117	113	109	105	99	92
32	171	163	156	151	146	141	136	130	122
28	211	198	189	182	175	168	160	151	139
24	229	218	210	202	196	189	182	174	162
20	236	230	225	221	218	214	210	206	199
16	262	255	249	244	240	236	231	225	218

***** 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

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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	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0

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	2	5	10	178	542	761	932	853	613	248	51	4	2	7	17	195	737	1498	2430	3283	3896	4144	4195	4199
45	1	0	3	97	387	611	777	698	464	130	16	0	1	1	4	101	488	1099	1876	2574	3038	3168	3184	3184
50	0	0	2	43	239	461	622	543	318	51	3	0	0	0	2	45	284	745	1367	1910	2228	2279	2282	2282
55	0	0	0	18	112	316	467	388	186	11	0	0	0	0	0	18	130	446	913	1301	1487	1498	1498	1498
60	0	0	0	6	38	186	313	235	84	0	0	0	0	0	0	6	44	230	543	778	862	862	862	862
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	15	123	341	489	618	542	382	155	18	0	0	0	15	138	479	968	1586	2128	2510	2665	2683	2683

(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