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: CIRCLEVILLE, UT **COOP ID: 421432**

Climate Division: UT 4 **NWS Call Sign:** **Elevation: 6,050 Feet** **Lat: 38˚10N** **Lon: 112˚17W**

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	41.9	13.1	27.5	66	1990	9	34.8	1986	-23+	1963	12	18.1	1989	1161	0	.0	.0	6.3	4.4	30.0	4.3
Feb	47.1	18.0	32.6	72	1963	5	39.4	1995	-26+	1989	6	27.1	1985	909	0	.0	.0	11.4	1.8	26.8	1.0
Mar	53.1	23.1	38.1	77	1997	20	42.9	1972	-4	1966	4	31.6	1976	834	0	.0	.0	20.4	.4	26.5	.1
Apr	60.6	28.4	44.5	87	1962	18	51.9	1992	4	1955	4	37.5	1975	615	0	.0	.0	25.6	.0	19.9	.0
May	70.2	36.5	53.4	97	1966	28	60.3	2000	15+	1959	5	49.4	1971	366	5	.0	.2	30.4	.0	8.4	.0
Jun	81.3	44.5	62.9	100+	1961	21	66.7	1994	22	2001	14	57.7	1995	124	61	@	5.5	30.0	.0	1.5	.0
Jul	87.3	51.5	69.4	103+	1960	26	72.8	2000	32	1982	6	66.6	1993	12	148	.3	13.3	31.0	.0	@	.0
Aug	84.8	49.9	67.4	102	1960	12	70.6	2000	25	1960	17	65.0	1993	26	98	@	8.1	31.0	.0	@	.0
Sep	77.3	41.0	59.2	95+	1960	11	63.2	1979	18	1985	29	54.3	1986	191	16	.0	1.0	29.9	.0	4.1	.0
Oct	66.1	30.2	48.2	87+	1959	25	52.1	1988	-12	1971	30	42.3	1984	522	0	.0	.0	28.4	.1	18.7	.0
Nov	52.4	20.3	36.4	74+	1962	2	42.6	1999	-10	1984	27	30.2	2000	859	0	.0	.0	17.9	1.0	26.7	.6
Dec	43.7	13.1	28.4	67	1995	1	35.7	1977	-31	1990	23	20.8	1990	1135	0	.0	.0	8.3	3.6	29.8	3.2
Ann	63.8	30.8	47.3	103+	Jul 1960	26	72.8	Jul 2000	-31	Dec 1990	23	18.1	Jan 1989	6754	328	.3	28.1	270.6	11.3	192.4	9.2

\+ 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	.61	.45	.56	1980	14	2.05	1993	.01	1994
Feb	.54	.46	.65	1996	21	1.90	1980	.00	1972
Mar	.76	.62	1.15	1984	30	1.90	1995	.00	1972
Apr	.64	.55	1.09	1962	29	1.83	1988	.00	1979
May	.90	.78	2.10	1987	18	3.27	1987	.00	1972
Jun	.57	.41	1.02	1949	3	1.61	1972	.00+	1978
Jul	.86	.65	.97	1977	4	2.78	1984	.00	1979
Aug	1.42	1.17	1.60	2000	8	4.03	1997	.03	1976
Sep	.95	.68	2.61	1967	23	3.27	1997	.03	1979
Oct	.90	.72	1.25	1980	12	2.65	1972	.00+	1999
Nov	.50	.42	1.08	1970	26	2.01	1978	.05	1998
Dec	.42	.39	1.50	1966	7	1.74	1983	.00+	1989
Ann	9.07	8.91	2.61	Sep 1967	23	4.03	Aug 1997	.00+	Oct 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	5.7	2.3	.1	.0
Feb	5.6	2.0	@	.0
Mar	6.7	2.4	.2	.1
Apr	5.9	2.2	.1	.0
May	6.4	2.8	.2	@
Jun	4.2	1.8	.2	@
Jul	6.2	2.7	.4	.0
Aug	8.1	4.0	.7	.1
Sep	6.1	2.9	.3	@
Oct	5.3	3.0	.3	@
Nov	4.1	1.8	.1	@
Dec	4.2	1.5	@	.0
Ann	68.5	29.4	2.6	.2

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	.03	.07	.14	.23	.32	.43	.57	.74	.98	1.40	1.81
Feb	.04	.10	.18	.26	.34	.43	.54	.67	.84	1.12	1.39
Mar	.05	.13	.25	.36	.47	.60	.75	.93	1.18	1.58	1.97
Apr	.03	.09	.19	.29	.39	.50	.63	.79	1.01	1.37	1.72
May	.09	.20	.35	.48	.62	.76	.92	1.11	1.37	1.79	2.18
Jun	.00	.00	.11	.21	.31	.42	.55	.71	.93	1.30	1.66
Jul	.07	.17	.31	.43	.56	.70	.86	1.06	1.32	1.74	2.14
Aug	.19	.30	.50	.70	.91	1.14	1.41	1.74	2.19	2.92	3.63
Sep	.10	.17	.31	.44	.58	.74	.93	1.16	1.48	2.00	2.51
Oct	.00	.06	.20	.34	.49	.66	.86	1.11	1.45	2.03	2.60
Nov	.05	.08	.15	.22	.30	.38	.48	.61	.78	1.07	1.35
Dec	.00	.03	.10	.17	.24	.31	.41	.52	.68	.94	1.19
Ann	5.56	6.20	7.04	7.69	8.28	8.86	9.46	10.14	10.97	12.20	13.27

\+ 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	5.7	4.2	1	#
Feb	3.0	1.7	#	#
Mar	3.6	1.2	#	#
Apr	1.3	.0	#	0
May	.2	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.1	.0	#	0
Oct	.9	.0	#	0
Nov	2.6	1.1	#	#
Dec	4.5	3.3	#	#
Ann	21.9	11.5	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	6.2	1982	29	18.2	1982	17	1997	13	3	1997
Feb	5.2	1976	6	10.0	1990	7	1989	8	3	1989
Mar	18.0	1985	28	23.5	1985	7	1984	30	1	1985
Apr	4.2	1985	20	11.5	1997	2	1997	2	#+	2000
May	3.5	1983	11	3.5	1983	#	1974	20	#	1974
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	1.5	1988	12	1.5	1988	#+	2000	8	#+	2000
Oct	4.0	1971	30	8.0	1971	5	1971	30	#+	1997
Nov	12.0	1984	25	12.0	1984	9	1984	25	1	1994
Dec	6.2	1984	20	14.3	1971	5	1984	20	1	1990
Ann	18.0	Mar 1985	28	23.5	Mar 1985	17	Jan 1997	13	3+	Jan 1997

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	3.3	2.3	.6	.1	.0
Feb	1.9	1.3	.4	.1	.0
Mar	1.4	.8	.4	.1	.1
Apr	.7	.6	.1	.0	.0
May	.1	.1	.1	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	@	@	.0	.0	.0
Oct	.5	.4	.1	.0	.0
Nov	1.4	.9	.2	@	@
Dec	1.9	1.4	.6	.1	.0
Ann	11.2	7.8	2.5	.4	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	7.3	2.4	.6	.0
Feb	2.5	1.0	.2	.0
Mar	.5	.3	.1	.0
Apr	.4	.0	.0	.0
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	.2	.1	@	.0
Nov	1.4	.3	.1	.0
Dec	3.4	.8	.1	.0
Ann	15.7	4.9	1.1	.0

+ 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	7/03	6/27	6/23	6/20	6/17	6/14	6/10	6/06	6/01
32	6/25	6/19	6/15	6/12	6/08	6/05	6/01	5/28	5/22
28	6/10	6/04	5/31	5/28	5/24	5/21	5/17	5/13	5/08
24	5/23	5/18	5/15	5/12	5/09	5/06	5/03	4/29	4/24
20	5/11	5/06	5/02	4/28	4/25	4/22	4/19	4/15	4/09
16	4/26	4/19	4/14	4/10	4/06	4/02	3/29	3/24	3/17

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	8/22	8/27	8/31	9/04	9/07	9/10	9/13	9/17	9/22
32	9/06	9/10	9/13	9/15	9/17	9/19	9/22	9/24	9/28
28	9/12	9/17	9/20	9/22	9/25	9/27	9/30	10/03	10/07
24	9/20	9/25	9/29	10/02	10/05	10/08	10/12	10/15	10/21
20	9/29	10/05	10/10	10/13	10/17	10/20	10/24	10/29	11/04
16	10/18	10/22	10/26	10/28	10/31	11/03	11/06	11/09	11/14

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	105	97	91	86	81	77	72	66	58
32	122	114	109	105	100	96	91	86	79
28	143	136	131	127	123	119	114	109	102
24	169	162	157	153	149	145	141	136	129
20	195	187	182	178	174	170	165	160	153
16	232	223	217	212	208	203	198	192	183

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1161	909	834	615	366	124	12	26	191	522	859	1135	6754
60	1006	769	679	467	230	53	1	3	89	370	709	980	5356
57	913	685	586	383	162	27	0	0	48	283	619	887	4593
55	851	629	525	328	123	16	0	0	29	229	559	825	4114
50	696	489	378	207	53	3	0	0	6	118	412	670	3032
32	216	84	35	8	0	0	0	0	0	1	49	179	572

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	78	99	225	384	662	928	1159	1096	815	501	180	67	6194
55	0	0	1	13	72	253	446	383	154	17	0	0	1339
57	0	0	0	8	49	205	384	321	112	8	0	0	1087
60	0	0	0	2	24	141	292	231	63	2	0	0	755
65	0	0	0	0	5	61	148	98	16	0	0	0	328
70	0	0	0	0	0	18	46	21	2	0	0	0	87

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	17	71	195	441	715	942	875	594	290	65	7	3	20	91	286	727	1442	2384	3259	3853	4143	4208	4215
45	0	1	22	101	298	565	787	720	447	165	16	0	0	1	23	124	422	987	1774	2494	2941	3106	3122	3122
50	0	1	1	39	167	416	632	565	301	73	0	0	0	1	2	41	208	624	1256	1821	2122	2195	2195	2195
55	0	0	0	8	75	276	477	410	174	18	0	0	0	0	0	8	83	359	836	1246	1420	1438	1438	1438
60	0	0	0	0	23	153	323	256	73	0	0	0	0	0	0	0	23	176	499	755	828	828	828	828
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	15	41	94	190	332	481	594	561	424	263	88	21	15	56	150	340	672	1153	1747	2308	2732	2995	3083	3104

(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