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: LAKE CITY, CO **COOP ID: 054734**

Climate Division: CO 2 **NWS Call Sign:** **Elevation: 8,670 Feet** **Lat: 38˚01N** **Lon: 107˚19W**

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	35.2	-1.1	17.1	57	1969	7	25.4	1981	-38	1974	4	7.9	1973	1489	0	.0	.0	1.3	11.5	31.0	18.4
Feb	39.7	3.9	21.8	61	1977	17	28.5	1995	-30+	1989	7	14.5	1973	1209	0	.0	.0	2.7	5.5	28.2	11.3
Mar	45.9	14.1	30.0	68	1974	25	37.2	1999	-26	1965	19	23.1	1973	1085	0	.0	.0	9.6	1.9	30.8	3.1
Apr	54.5	22.4	38.5	78	1981	26	45.0	1992	-18	1965	11	32.2	1975	797	0	.0	.0	20.0	.3	27.7	.4
May	63.2	30.8	47.0	82	1996	13	52.4	1996	7	1999	6	42.7	1995	557	0	.0	.0	28.7	.0	19.0	.0
Jun	73.8	38.3	56.1	91	1961	24	60.2	1981	16	1976	15	51.5	1976	273	4	.0	.0	29.9	.0	4.9	.0
Jul	77.1	44.1	60.6	98	1979	11	64.7	1989	25	1974	7	58.2	1977	145	10	.0	.1	31.0	.0	.2	.0
Aug	74.5	43.0	58.8	90	1975	30	61.3	1983	25+	1968	24	54.2	1974	199	5	.0	@	31.0	.0	1.1	.0
Sep	69.8	35.8	52.8	88	1975	1	57.8	1979	12	1978	21	48.3	1971	367	0	.0	.0	29.8	.0	9.7	.0
Oct	60.7	25.6	43.2	80	1979	5	48.4	1988	-2+	1975	25	37.7+	1984	677	0	.0	.0	27.0	.2	25.9	.1
Nov	45.4	13.0	29.2	70	1980	9	35.8	1999	-20+	1979	29	21.3	1992	1075	0	.0	.0	10.3	3.6	29.8	4.1
Dec	36.0	1.5	18.8	59+	1980	26	31.8	1980	-32+	1978	9	9.5	1972	1434	0	.0	.0	1.6	10.9	31.0	14.8
Ann	56.3	22.6	39.5	98	Jul 1979	11	64.7	Jul 1989	-38	Jan 1974	4	7.9	Jan 1973	9307	19	.0	.1	222.9	33.9	239.3	52.2

\+ 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

Issue Date: February 2004

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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	.78	.64	1.94	1980	20	3.34	1980	.03	1971
Feb	.70	.66	1.01	1987	26	2.37	1987	.02	1972
Mar	1.04	.96	.96	2000	21	2.96	2000	.17	1997
Apr	1.06	.84	.90	1962	8	2.51	1999	.32	1988
May	1.12	.99	1.35	2000	8	3.51	1992	.03	1998
Jun	.77	.71	1.07	1995	17	2.25	1995	.00	1980
Jul	1.94	1.66	1.56	1996	18	5.51	1981	.18	1993
Aug	2.29	1.96	1.55	1982	23	6.60	1982	.69	1978
Sep	1.33	1.12	1.22	1990	28	3.89	1985	.15	1974
Oct	1.27	1.08	1.70	1969	3	3.88	1996	.00	1973
Nov	1.06	1.09	1.68	1964	16	2.79	1978	.00	1999
Dec	.87	.56	1.65	1973	28	3.72	1973	.00	1976
Ann	14.23	14.76	1.94	Jan 1980	20	6.60	Aug 1982	.00+	Nov 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.4	3.1	.1	@
Feb	5.9	2.5	.1	@
Mar	7.6	3.6	.2	.0
Apr	7.2	3.3	.2	.0
May	6.9	3.5	.3	.1
Jun	5.1	2.8	.1	@
Jul	10.3	6.2	.8	.1
Aug	13.3	7.4	1.0	.1
Sep	8.2	4.3	.4	@
Oct	5.9	3.9	.6	.1
Nov	6.4	3.7	.3	.0
Dec	5.8	2.9	.3	@
Ann	89.0	47.2	4.4	.4

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	.09	.15	.26	.36	.48	.61	.76	.95	1.20	1.62	2.03
Feb	.11	.17	.28	.37	.47	.58	.71	.86	1.06	1.39	1.71
Mar	.29	.38	.53	.66	.79	.93	1.08	1.25	1.48	1.84	2.17
Apr	.28	.38	.54	.67	.81	.95	1.10	1.28	1.52	1.90	2.25
May	.15	.24	.40	.56	.72	.90	1.11	1.37	1.72	2.28	2.83
Jun	.05	.13	.25	.37	.48	.61	.76	.94	1.19	1.59	1.98
Jul	.40	.57	.86	1.12	1.38	1.66	1.98	2.37	2.87	3.68	4.45
Aug	.70	.92	1.24	1.52	1.79	2.07	2.38	2.75	3.22	3.95	4.63
Sep	.26	.38	.58	.76	.94	1.13	1.35	1.61	1.96	2.52	3.05
Oct	.16	.32	.54	.72	.90	1.09	1.30	1.56	1.90	2.43	2.94
Nov	.15	.29	.47	.62	.77	.92	1.10	1.30	1.57	2.00	2.40
Dec	.03	.09	.22	.34	.48	.64	.83	1.06	1.39	1.94	2.48
Ann	9.63	10.50	11.63	12.49	13.26	14.01	14.78	15.64	16.69	18.21	19.54

+ 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: 1948-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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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	12.0	10.3	10	10
Feb	10.0	8.0	12	13
Mar	14.5	15.8	8	5
Apr	10.5	6.3	2	#
May	4.3	1.5	#	0
Jun	.2	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.3	.0	#	0
Oct	4.5	2.0	#	0
Nov	13.4	13.8	2	1
Dec	12.2	10.7	5	3
Ann	81.9	68.4	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	12.0	1980	20	30.4	1980	35	1984	3	28	1984
Feb	11.5	1993	20	31.0	1987	32	1987	28	26	1984
Mar	11.0	2000	21	30.1	1975	31+	1987	1	23	1984
Apr	12.0	1984	29	34.0	1974	21	1975	13	13	1975
May	8.0	1990	1	21.0	1978	12	1990	1	1	1990
Jun	4.0	1979	19	4.0	1979	1	1983	13	#+	1998
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	5.0	1996	27	6.0	1996	2	1971	4	#+	1996
Oct	9.0	1972	31	19.0	1996	12	1996	28	1+	1996
Nov	24.0	1992	2	38.0	1992	18	1992	2	8	1992
Dec	12.0	1973	28	29.5	1972	36	1983	31	19	1983
Ann	24.0	Nov 1992	2	38.0	Nov 1992	36	Dec 1983	31	28	Jan 1984

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	6.0	4.4	1.3	.4	@
Feb	5.1	3.8	1.1	.4	.1
Mar	6.4	5.3	2.2	.8	.1
Apr	4.0	2.9	1.3	.6	.1
May	1.6	1.4	.4	.2	.0
Jun	.1	.1	@	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.1	.1	@	@	.0
Oct	1.4	1.2	.5	.2	.0
Nov	5.1	4.2	1.8	.7	.1
Dec	5.4	4.4	1.7	.5	.2
Ann	35.2	27.8	10.3	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	-9.9	-9.9	-9.9	-9.9
Apr	2.1	.6	.0	.0
May	.8	.1	.0	.0
Jun	@	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.1	.0	.0	.0
Oct	.6	.2	.1	.0
Nov	-9.9	-9.9	-9.9	-9.9
Dec	-9.9	-9.9	-9.9	-9.9
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	7/24	7/17	7/12	7/07	7/03	6/29	6/24	6/19	6/12
32	7/09	7/03	6/28	6/24	6/20	6/16	6/12	6/08	6/01
28	6/27	6/21	6/17	6/13	6/09	6/06	6/02	5/28	5/22
24	6/11	6/04	5/30	5/25	5/21	5/17	5/13	5/08	5/01
20	5/29	5/22	5/16	5/11	5/07	5/03	4/28	4/22	4/15
16	5/19	5/11	5/06	5/01	4/27	4/22	4/18	4/12	4/05

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	8/05	8/13	8/18	8/23	8/27	8/31	9/05	9/10	9/18
32	8/21	8/28	9/01	9/05	9/09	9/13	9/17	9/21	9/28
28	9/04	9/09	9/12	9/15	9/18	9/21	9/24	9/27	10/02
24	9/16	9/21	9/24	9/27	9/30	10/03	10/06	10/09	10/14
20	9/22	9/27	9/30	10/03	10/06	10/09	10/12	10/16	10/21
16	9/29	10/05	10/09	10/13	10/16	10/19	10/23	10/27	11/02

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	93	80	70	62	54	47	39	29	16
32	113	101	93	86	80	74	67	59	48
28	124	116	110	105	100	95	90	84	75
24	159	149	142	136	131	125	119	112	103
20	181	171	163	157	151	145	139	132	121
16	203	192	184	178	172	165	159	151	141

***** 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	1489	1209	1085	797	557	273	145	199	367	677	1075	1434	9307
60	1334	1069	930	647	403	146	46	79	227	522	925	1279	7607
57	1241	985	837	557	313	88	14	35	155	431	835	1186	6677
55	1179	929	775	498	257	59	6	17	115	372	775	1124	6106
50	1024	789	620	358	137	15	0	2	43	236	625	969	4818
32	476	302	155	38	1	0	0	0	0	9	169	429	1579

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	10	17	93	232	467	722	887	829	623	355	84	18	4337
55	0	0	0	1	10	90	180	133	48	5	0	0	467
57	0	0	0	0	4	60	126	89	28	2	0	0	309
60	0	0	0	0	1	27	65	40	11	0	0	0	144
65	0	0	0	0	0	4	10	5	0	0	0	0	19
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	0	0	3	64	234	481	645	581	385	151	8	0	0	0	3	67	301	782	1427	2008	2393	2544	2552	2552
45	0	0	0	15	114	333	490	426	240	63	0	0	0	0	0	15	129	462	952	1378	1618	1681	1681	1681
50	0	0	0	1	37	198	335	271	115	15	0	0	0	0	0	1	38	236	571	842	957	972	972	972
55	0	0	0	0	5	86	182	123	32	0	0	0	0	0	0	0	5	91	273	396	428	428	428	428
60	0	0	0	0	0	19	57	27	1	0	0	0	0	0	0	0	0	19	76	103	104	104	104	104
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	1	27	94	206	358	422	386	297	182	33	0	0	1	28	122	328	686	1108	1494	1791	1973	2006	2006

(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.
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