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: CERRO, NM **COOP ID: 291630**

Climate Division: NM 2 **NWS Call Sign:** **Elevation: 7,650 Feet** **Lat: 36˚44N** **Lon: 105˚36W**

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	36.2	7.2	21.7	63	2000	16	30.8	1986	-34	1971	6	9.3	1984	1343	0	.0	.0	2.6	10.4	30.9	9.7
Feb	41.7	13.1	27.4	65+	1986	26	36.5	1995	-27	1951	1	17.2	1979	1053	0	.0	.0	5.3	4.2	27.9	4.0
Mar	50.3	21.3	35.8	73	1997	20	41.3	1972	-14	1948	12	29.7	1984	907	0	.0	.0	16.5	.6	29.7	.6
Apr	59.8	26.9	43.4	82	1981	29	48.5	1981	-18	1980	1	37.4	1975	650	0	.0	.0	25.6	@	23.1	@
May	68.2	34.8	51.5	91	2000	29	57.3	1996	16+	1967	1	48.0	1995	419	1	.0	.1	30.5	.0	11.7	.0
Jun	78.3	42.9	60.6	95	1998	29	64.6	1990	25	1974	1	56.2	1983	158	26	.0	.8	30.0	.0	1.1	.0
Jul	81.9	48.5	65.2	96	1966	7	69.0	1980	34	1995	5	62.5	1986	50	56	.0	1.4	31.0	.0	.0	.0
Aug	79.4	47.8	63.6	93+	1954	29	66.6	2000	34	1956	29	61.3+	1979	73	28	.0	@	31.0	.0	.0	.0
Sep	74.1	41.4	57.8	93	1954	1	61.4	2000	20	1999	29	54.8	1993	222	4	.0	.0	30.0	.0	2.7	.0
Oct	63.5	30.4	47.0	86	1954	1	50.6	1979	-3	1996	22	42.9	1984	560	0	.0	.0	28.5	.1	19.3	.1
Nov	48.3	18.8	33.6	71	1954	6	39.8	1973	-18+	1952	29	25.2	1992	943	0	.0	.0	14.6	2.1	28.1	1.2
Dec	38.3	8.7	23.5	63+	1980	17	34.8	1980	-30	1990	23	10.7	1991	1286	0	.0	.0	3.9	8.3	30.9	7.6
Ann	60.0	28.5	44.3	96	Jul 1966	7	69.0	Jul 1980	-34	Jan 1971	6	9.3	Jan 1984	7664	115	.0	2.3	249.5	25.7	205.4	23.2

\+ 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	.69	.59	1.27	1974	1	2.13	1979	.04	1998
Feb	.62	.44	.93	1989	5	2.00	1982	.08	1981
Mar	1.03	.98	1.62	1985	12	2.66	1990	.00	1971
Apr	.87	.64	1.41	1999	30	3.62	1999	.00+	1991
May	1.24	1.15	1.69	1995	29	3.60	1995	.00+	1998
Jun	1.01	.92	1.46	1950	4	2.87	1986	.00+	1998
Jul	1.75	1.60	1.20	1975	20	3.61	1986	.43	1980
Aug	2.25	2.14	1.25	1993	27	6.71	1993	.45	1973
Sep	1.54	1.53	1.50	1996	13	3.34	1986	.18	2000
Oct	1.21	.98	1.28	1998	26	3.84	1998	.00+	1995
Nov	1.05	.91	1.08	1975	19	2.86	1991	.00	1989
Dec	.77	.64	1.15	1990	17	1.83	1990	.02	1977
Ann	14.03	14.04	1.69	May 1995	29	6.71	Aug 1993	.00+	Jun 1998

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	4.2	2.5	.3	@
Feb	4.2	2.4	.2	.0
Mar	5.9	3.3	.3	@
Apr	4.9	2.8	.3	.1
May	5.8	3.5	.4	.1
Jun	4.7	2.9	.6	@
Jul	8.6	5.3	.9	.1
Aug	11.7	7.5	1.1	.1
Sep	6.8	4.2	.8	.1
Oct	5.0	3.5	.7	.1
Nov	5.3	3.0	.7	.1
Dec	4.4	2.6	.3	@
Ann	71.5	43.5	6.6	.7

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	.08	.13	.23	.32	.43	.54	.68	.85	1.08	1.46	1.83
Feb	.08	.13	.21	.30	.39	.49	.61	.76	.96	1.29	1.61
Mar	.09	.21	.38	.53	.68	.85	1.04	1.27	1.59	2.09	2.57
Apr	.00	.00	.11	.30	.48	.66	.87	1.12	1.46	2.00	2.55
May	.00	.00	.36	.58	.79	1.02	1.27	1.58	1.98	2.63	3.26
Jun	.00	.08	.25	.41	.57	.76	.98	1.25	1.62	2.23	2.83
Jul	.54	.71	.96	1.17	1.38	1.59	1.82	2.10	2.45	3.00	3.51
Aug	.75	.97	1.28	1.54	1.80	2.06	2.35	2.68	3.11	3.78	4.39
Sep	.31	.45	.68	.88	1.09	1.32	1.57	1.87	2.27	2.92	3.53
Oct	.00	.10	.29	.48	.69	.91	1.18	1.50	1.95	2.70	3.43
Nov	.08	.19	.36	.51	.67	.85	1.05	1.29	1.62	2.16	2.67
Dec	.06	.11	.21	.32	.44	.57	.74	.94	1.22	1.70	2.17
Ann	9.25	10.15	11.32	12.21	13.02	13.80	14.61	15.51	16.62	18.23	19.64

\+ 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	11.5	11.0	2	1
Feb	9.3	5.9	1	#
Mar	9.4	9.8	#	#
Apr	4.2	2.7	#	0
May	.7	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	2.8	.5	#	0
Nov	9.9	7.0	1	#
Dec	11.8	8.8	3	#
Ann	59.6	45.7	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	16.0	1985	9	40.5	1979	11	1977	9	10	1972
Feb	24.0	1989	5	34.0	1989	9	1997	28	4	1977
Mar	12.0	1985	12	27.5	1990	8+	1999	12	2	1997
Apr	8.0	1983	1	15.5	1983	3+	1998	16	#+	1999
May	3.0	1973	6	8.0	1995	2	1999	1	#+	1999
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	.0	0	0	.0	0	0	0	0	0	0
Oct	9.0	1996	27	16.0	1996	6	1972	31	#+	1997
Nov	10.0	1975	19	36.7	1991	11	1991	19	10	1985
Dec	18.0	1979	28	33.0	1990	17	1971	14	15	1973
Ann	24.0	Feb 1989	5	40.5	Jan 1979	17	Dec 1971	14	15	Dec 1973

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	3.6	3.4	1.7	.7	.1
Feb	3.5	2.8	1.2	.5	@
Mar	3.7	3.2	1.3	.6	.1
Apr	1.9	1.6	.6	.2	.0
May	.3	.3	.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	.0	.0
Oct	.8	.8	.4	.1	.0
Nov	2.8	2.5	1.4	.6	.1
Dec	3.7	3.3	1.6	.6	.2
Ann	20.3	17.9	8.3	3.3	.5

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	6.3	3.0	1.5	.0
Mar	2.2	1.1	.9	.0
Apr	.5	.1	.0	.0
May	.1	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.4	.2	.1	.0
Nov	3.2	1.9	1.1	.2
Dec	8.3	7.0	5.3	.2
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	6/26	6/21	6/18	6/15	6/13	6/10	6/08	6/04	5/31
32	6/14	6/10	6/06	6/03	5/31	5/28	5/25	5/22	5/17
28	6/05	5/31	5/27	5/24	5/21	5/18	5/15	5/11	5/06
24	5/23	5/17	5/13	5/09	5/05	5/01	4/28	4/23	4/17
20	5/12	5/05	4/30	4/26	4/22	4/18	4/14	4/09	4/02
16	4/29	4/22	4/17	4/12	4/08	4/04	3/31	3/26	3/19

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	9/01	9/05	9/08	9/11	9/14	9/16	9/19	9/22	9/26
32	9/10	9/15	9/17	9/20	9/22	9/24	9/27	9/30	10/04
28	9/21	9/25	9/28	9/30	10/02	10/04	10/07	10/09	10/13
24	9/27	10/02	10/05	10/08	10/11	10/14	10/17	10/20	10/25
20	10/07	10/12	10/16	10/19	10/22	10/25	10/28	11/01	11/06
16	10/19	10/23	10/26	10/29	11/01	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	111	104	100	96	92	88	84	80	74
32	132	125	121	117	113	110	106	101	95
28	154	147	142	137	133	129	125	120	113
24	181	173	167	163	158	154	149	144	136
20	204	196	191	186	182	178	173	168	161
16	230	221	215	210	206	201	196	190	181

***** 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	1343	1053	907	650	419	158	50	73	222	560	943	1286	7664
60	1188	913	752	500	272	68	6	11	102	406	793	1131	6142
57	1095	829	659	413	194	34	1	2	53	316	703	1038	5337
55	1033	773	597	356	148	19	0	0	31	260	643	976	4836
50	878	633	443	225	64	3	0	0	5	141	498	821	3711
32	375	213	55	7	0	0	0	0	0	2	107	323	1082

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	55	84	171	347	605	858	1030	978	772	465	153	60	5578
55	0	0	0	6	40	188	317	266	113	10	0	0	940
57	0	0	0	3	23	142	256	205	75	4	0	0	708
60	0	0	0	0	9	86	168	122	34	1	0	0	420
65	0	0	0	0	1	26	56	28	4	0	0	0	115
70	0	0	0	0	0	4	7	1	0	0	0	0	12

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	3	38	150	358	624	791	738	533	243	30	0	0	3	41	191	549	1173	1964	2702	3235	3478	3508	3508
45	0	0	6	62	216	474	636	583	385	123	2	0	0	0	6	68	284	758	1394	1977	2362	2485	2487	2487
50	0	0	0	16	100	324	481	428	239	39	0	0	0	0	0	16	116	440	921	1349	1588	1627	1627	1627
55	0	0	0	0	30	187	326	273	114	6	0	0	0	0	0	0	30	217	543	816	930	936	936	936
60	0	0	0	0	4	80	173	122	31	0	0	0	0	0	0	0	4	84	257	379	410	410	410	410
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	15	62	165	290	432	511	475	366	225	62	3	0	15	77	242	532	964	1475	1950	2316	2541	2603	2606

(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