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: GAGE 4 ESE, NM **COOP ID: 293368**

Climate Division: NM 8 **NWS Call Sign:** **Elevation: 4,410 Feet** **Lat: 32˚13N** **Lon: 108˚01W**

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	57.3	25.9	41.6	80+	1971	18	45.8	1999	-13	1962	11	37.4	1973	725	0	.0	.0	26.1	.2	25.6	.0
Feb	62.6	29.2	45.9	85	1986	26	50.9	1996	-2	1963	13	40.5	1974	535	0	.0	.0	26.1	.3	19.5	.0
Mar	69.7	33.1	51.4	92	1989	11	57.1	1989	10	1966	5	46.1	1973	423	2	.0	.1	30.7	.0	13.5	.0
Apr	77.9	38.8	58.4	99	2000	27	65.4	1989	17	1984	2	51.5	1975	230	30	.0	1.3	29.9	@	5.2	.0
May	86.9	47.8	67.4	105	2000	24	73.8	2000	26	1967	2	62.3	1975	70	142	.5	11.3	31.0	.0	.2	.0
Jun	96.2	57.5	76.9	116	1994	25	83.1	1994	38+	1968	10	73.2	1979	3	358	9.0	26.2	30.0	.0	.0	.0
Jul	95.4	64.0	79.7	109+	1957	4	82.5	1980	49	1978	26	76.7	1986	0	456	6.8	26.3	31.0	.0	.0	.0
Aug	92.5	62.6	77.6	106	1994	23	83.1	1994	49	1968	15	73.8	1990	1	391	2.6	22.9	31.0	.0	.0	.0
Sep	87.8	56.1	72.0	102+	1983	4	76.9	1998	36	1965	30	68.2	1975	15	223	.2	12.3	30.0	.0	.0	.0
Oct	78.0	44.2	61.1	96+	1996	9	65.3	1988	21	1996	22	55.7	1976	157	36	.0	2.2	30.9	.0	1.5	.0
Nov	66.0	31.9	49.0	83+	1973	12	55.1	1999	7	1957	23	43.8	2000	482	1	.0	.0	28.8	@	15.3	.0
Dec	56.9	25.7	41.3	78	1954	3	45.3	1980	0+	1978	8	37.4	1988	735	0	.0	.0	25.2	.2	25.9	.1
Ann	77.3	43.1	60.2	116	Jun 1994	25	83.1+	Aug 1994	-13	Jan 1962	11	37.4+	Dec 1988	3376	1639	19.1	102.6	350.7	.7	106.7	.1

\+ 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	.73	.61	.93	1997	4	3.32	1993	.00+	2000
Feb	.59	.65	1.40	1949	12	1.76	1973	.00+	2000
Mar	.36	.18	.86	1958	11	1.64	1992	.00	1971
Apr	.15	.03	.93	1996	5	1.06	1985	.00+	2000
May	.25	.12	.59	1982	22	2.34	1992	.00+	2000
Jun	.54	.14	1.44	1967	17	2.88	1979	.00+	1995
Jul	2.06	1.65	3.30	1973	13	8.19	1973	.10	1978
Aug	2.39	2.03	2.40	1999	5	7.47	1999	.35	1994
Sep	1.32	1.04	3.20	1987	29	3.69	1987	.00	1984
Oct	1.18	.88	1.90	1971	25	3.70	1984	.00+	1999
Nov	.76	.46	2.00	1986	2	3.06	1986	.00+	1999
Dec	1.27	.66	2.10	1992	4	6.40	1991	.00+	1996
Ann	11.60	11.03	3.30	Jul 1973	13	8.19	Jul 1973	.00+	May 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	4.1	2.5	.3	.0
Feb	3.3	1.7	.3	.0
Mar	2.9	1.3	.1	.0
Apr	1.6	.6	.1	.0
May	1.6	1.0	.1	.0
Jun	1.9	1.2	.3	.2
Jul	6.4	4.5	.9	.3
Aug	6.5	4.6	1.6	.5
Sep	4.4	2.9	.9	.2
Oct	4.9	2.9	.7	.1
Nov	2.8	1.9	.5	.2
Dec	3.7	2.8	.7	.1
Ann	44.1	27.9	6.5	1.6

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	.00	.00	.12	.26	.39	.54	.71	.92	1.21	1.68	2.14
Feb	.00	.00	.00	.17	.30	.44	.59	.77	1.01	1.42	1.80
Mar	.00	.02	.05	.10	.15	.22	.31	.42	.59	.88	1.18
Apr	.00	.00	.00	.00	.00	.00	.06	.15	.26	.47	.67
May	.00	.00	.00	.00	.00	.07	.16	.28	.45	.75	1.05
Jun	.00	.00	.00	.00	.02	.13	.30	.56	.94	1.64	2.36
Jul	.35	.52	.82	1.11	1.40	1.71	2.07	2.51	3.09	4.04	4.94
Aug	.43	.64	.99	1.32	1.65	2.01	2.42	2.92	3.58	4.64	5.65
Sep	.11	.26	.48	.67	.87	1.09	1.33	1.63	2.04	2.69	3.32
Oct	.00	.00	.15	.33	.53	.77	1.06	1.44	1.97	2.89	3.80
Nov	.00	.00	.13	.26	.39	.54	.72	.94	1.25	1.76	2.27
Dec	.00	.05	.21	.39	.60	.85	1.16	1.54	2.10	3.04	3.98
Ann	7.24	8.04	9.09	9.90	10.63	11.35	12.09	12.92	13.95	15.45	16.77

\+ 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	.7	.0	#	0
Feb	.6	.0	#	0
Mar	.1	.0	0	0
Apr	.0	.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	.0	.0	0	0
Nov	#	.0	0	0
Dec	1.9	.0	#	0
Ann	3.3	.0	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	6.0	1973	1	6.0+	1973	2	1988	22	#+	1990
Feb	4.5	1973	22	4.5	1973	4	1979	5	#+	1988
Mar	1.0	1987	20	1.0	1987	0	0	0	0	0
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
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	.0	0	0	.0	0	0	0	0	0	0
Nov	#	1991	30	#	1991	0	0	0	0	0
Dec	7.0	1987	14	18.0	1987	1	1985	12	#	1985
Ann	7.0	Dec 1987	14	18.0	Dec 1987	4	Feb 1979	5	#+	Jan 1990

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.4	.3	.1	.1	.0
Feb	.3	.2	.1	.0	.0
Mar	.1	.1	.0	.0	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.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	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.4	.4	.2	.2	.0
Ann	1.2	1.0	.4	.3	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.0	.0	.0
Feb	.1	.1	.0	.0
Mar	.0	.0	.0	.0
Apr	.0	.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	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.1	.0	.0	.0
Ann	.3	.1	.0	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	5/18	5/12	5/08	5/05	5/01	4/28	4/25	4/21	4/15
32	5/05	4/30	4/25	4/22	4/18	4/15	4/11	4/07	4/01
28	4/23	4/16	4/11	4/07	4/04	3/31	3/27	3/22	3/16
24	4/10	4/03	3/28	3/24	3/19	3/15	3/10	3/05	2/25
20	3/24	3/13	3/06	2/27	2/21	2/15	2/09	2/01	1/22
16	3/03	2/18	2/09	2/01	1/25	1/17	1/08	12/28	12/07

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	10/09	10/13	10/17	10/19	10/22	10/24	10/27	10/30	11/04
32	10/14	10/19	10/22	10/25	10/28	10/31	11/03	11/07	11/11
28	10/23	10/28	11/01	11/04	11/07	11/09	11/12	11/16	11/21
24	10/29	11/04	11/09	11/12	11/16	11/19	11/23	11/27	12/03
20	11/14	11/20	11/24	11/27	12/01	12/04	12/08	12/12	12/17
16	11/23	11/30	12/05	12/10	12/14	12/18	12/24	12/30	0/00

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	190	184	180	176	173	169	166	161	155
32	213	206	201	196	192	188	183	178	171
28	238	231	225	221	216	212	207	202	194
24	268	259	252	246	241	235	230	223	213
20	317	305	296	289	282	275	267	259	247
16	>365	>365	345	330	320	311	302	293	280

***** 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	725	535	423	230	70	3	0	1	15	157	482	735	3376
60	570	395	279	130	25	0	0	0	2	68	339	580	2388
57	477	314	201	85	11	0	0	0	0	36	259	487	1870
55	415	261	157	60	6	0	0	0	0	22	212	425	1558
50	265	144	71	20	1	0	0	0	0	4	113	274	892
32	2	0	0	0	0	0	0	0	0	0	0	3	5

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	300	389	602	790	1096	1346	1479	1413	1198	901	509	291	10314
55	0	6	45	160	389	656	766	700	508	210	31	0	3471
57	0	2	28	125	332	596	704	638	448	162	18	0	3053
60	0	0	12	80	252	506	611	545	360	101	8	0	2475
65	0	0	2	30	142	358	456	391	223	36	1	0	1639
70	0	0	0	9	65	221	301	243	114	7	0	0	960

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	115	201	359	557	867	1113	1239	1169	955	660	290	104	115	316	675	1232	2099	3212	4451	5620	6575	7235	7525	7629
45	39	95	217	411	712	963	1084	1014	805	505	163	36	39	134	351	762	1474	2437	3521	4535	5340	5845	6008	6044
50	4	30	103	270	558	813	929	859	655	355	72	1	4	34	137	407	965	1778	2707	3566	4221	4576	4648	4649
55	0	0	35	149	406	663	774	704	505	214	19	0	0	0	35	184	590	1253	2027	2731	3236	3450	3469	3469
60	0	0	1	59	254	513	619	549	356	100	0	0	0	0	1	60	314	827	1446	1995	2351	2451	2451	2451
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	137	199	304	418	561	663	780	757	608	438	249	131	137	336	640	1058	1619	2282	3062	3819	4427	4865	5114	5245

(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

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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