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: RAMON 8 SW, NM **COOP ID: 297254**

Climate Division: NM 7 **NWS Call Sign:** **Elevation: 5,327 Feet** **Lat: 34˚09N** **Lon: 105˚00W**

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	51.2	21.7	36.5	77	2000	16	43.5	1999	-25	1979	2	31.7	1979	885	0	.0	.0	19.8	1.9	27.7	.4
Feb	56.4	24.1	40.3	79+	1972	28	46.6	2000	-8	1985	1	35.1	1997	693	0	.0	.0	22.2	1.2	23.0	.3
Mar	63.2	29.1	46.2	87	1971	24	51.3	1972	-3	1989	5	41.8	1987	585	0	.0	.0	28.4	.1	19.3	@
Apr	70.3	35.9	53.1	93	1965	22	58.0	1992	8	1973	8	46.0	1973	365	8	.0	.1	29.0	.1	10.1	.0
May	79.1	45.6	62.4	100	2000	24	71.2	1996	23	1970	1	57.7	1983	146	63	@	3.4	30.9	.0	.9	.0
Jun	87.8	54.0	70.9	106+	1994	26	77.0	1990	36	1976	12	66.6	1979	20	198	2.3	14.6	30.0	.0	.0	.0
Jul	89.2	58.7	74.0	106	1995	27	78.5	1980	44	1987	7	70.6	1975	1	279	1.4	18.2	31.0	.0	.0	.0
Aug	87.0	57.6	72.3	104	1980	2	75.5	2000	42	1963	6	69.4+	1990	5	232	.1	12.8	31.0	.0	.0	.0
Sep	80.4	50.5	65.5	100+	1995	5	70.1	1983	26	2000	25	61.8	1975	72	85	.1	3.7	29.8	.0	.2	.0
Oct	71.3	39.8	55.6	92+	2000	1	58.6	1992	7+	1991	31	49.9	1976	297	3	.0	.2	30.0	.0	5.1	.0
Nov	59.3	28.3	43.8	82	1973	11	50.4	1995	-11	1976	28	36.5	1972	637	0	.0	.0	24.9	.4	19.3	.1
Dec	51.4	22.0	36.7	77	1970	7	44.6	1977	-14	1983	30	32.1	1997	878	0	.0	.0	20.0	1.8	26.5	.6
Ann	70.6	38.9	54.8	106+	Jul 1995	27	78.5	Jul 1980	-25	Jan 1979	2	31.7	Jan 1979	4584	868	3.9	53.0	327.0	5.5	132.1	1.4

\+ 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: 1957-2001

(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	.47	.42	.78	1986	7	1.40	1997	.00+	2000
Feb	.44	.28	.71	1988	5	1.77	1986	.00+	2000
Mar	.60	.41	1.92	2000	23	2.74	2000	.00+	1980
Apr	.84	.43	2.65	1999	30	3.66	1997	.00+	1991
May	1.30	.90	3.20	1994	10	6.69	1992	.00+	2000
Jun	1.63	1.22	2.53	1981	23	4.14	1997	.00	1994
Jul	1.93	1.81	1.58	1994	21	6.15	1991	.06	1987
Aug	2.15	2.05	1.80	1987	22	4.42	1984	.10	1983
Sep	1.94	1.58	3.30	1982	30	5.53	1982	.19	1992
Oct	1.33	.70	2.37	1985	16	5.26	1998	.00+	1995
Nov	.63	.39	1.33	1986	3	3.42	1986	.00+	1999
Dec	.68	.44	1.50	1984	14	3.30	1997	.00+	1996
Ann	13.94	14.11	3.30	Sep 1982	30	6.69	May 1992	.00+	May 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	2.6	1.6	.2	.0
Feb	2.5	1.5	.1	.0
Mar	2.6	1.8	.3	.1
Apr	2.5	1.9	.4	.1
May	3.7	2.4	.7	.3
Jun	4.1	2.8	.9	.4
Jul	6.3	4.2	1.1	.4
Aug	7.7	5.1	1.4	.4
Sep	5.1	3.7	1.2	.4
Oct	3.1	2.3	1.0	.3
Nov	2.3	1.4	.4	.1
Dec	2.4	1.8	.4	.1
Ann	44.9	30.5	8.1	2.6

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	.11	.19	.27	.36	.47	.60	.76	1.05	1.32
Feb	.00	.00	.03	.10	.17	.27	.38	.53	.74	1.10	1.46
Mar	.00	.04	.13	.22	.32	.44	.57	.74	.98	1.37	1.76
Apr	.00	.00	.07	.20	.35	.53	.74	1.03	1.43	2.10	2.79
May	.00	.06	.24	.43	.64	.89	1.20	1.58	2.12	3.05	3.96
Jun	.06	.19	.43	.66	.92	1.21	1.56	2.00	2.60	3.60	4.58
Jul	.30	.46	.74	1.01	1.29	1.59	1.94	2.36	2.93	3.86	4.75
Aug	.42	.61	.93	1.22	1.51	1.83	2.18	2.61	3.19	4.10	4.97
Sep	.30	.46	.74	1.01	1.29	1.59	1.94	2.36	2.93	3.86	4.75
Oct	.00	.02	.13	.29	.50	.76	1.10	1.55	2.22	3.40	4.61
Nov	.00	.00	.11	.23	.35	.48	.62	.81	1.05	1.45	1.84
Dec	.00	.00	.06	.17	.29	.44	.61	.84	1.16	1.69	2.23
Ann	7.97	9.03	10.44	11.54	12.55	13.54	14.58	15.75	17.20	19.35	21.25

\+ 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: 1957-2001
(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	4.0	3.3	1	#
Feb	4.7	4.0	#	#
Mar	2.5	.3	#	0
Apr	.9	.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	.8	.0	#	0
Nov	1.1	.0	#	0
Dec	5.2	3.0	#	#
Ann	19.3	10.6	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	1982	13	12.0	1987	12	1987	20	4	1985
Feb	6.0	1979	16	18.0	1986	11	1987	21	2	1987
Mar	9.0	1999	17	11.0	1999	9	1999	17	#+	1999
Apr	10.0	1988	1	10.0	1988	6	1983	4	1	1987
May	3.0	1978	2	3.0	1978	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	5.0	1976	28	7.0	1976	6	1979	30	#+	1991
Nov	11.0	2000	7	11.0	2000	8	1986	23	#+	1995
Dec	12.0	1987	13	22.0+	1997	17	1997	25	3	1997
Ann	12.0+	Dec 1987	13	22.0+	Dec 1997	17	Dec 1997	25	4	Jan 1985

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.5	1.3	.7	.3	@
Feb	1.6	1.5	.9	.3	.0
Mar	.9	.8	.4	.1	.0
Apr	.3	.3	.2	@	@
May	@	@	@	.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	.2	.2	.1	.1	.0
Nov	.5	.4	.2	.1	@
Dec	1.6	1.4	.8	.3	.1
Ann	6.6	5.9	3.3	1.2	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	2.1	1.4	.9	.1
Feb	.9	.6	.2	.0
Mar	.4	.2	.1	.0
Apr	.3	.1	.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	.1	.1	.0	.0
Nov	.3	.1	@	.0
Dec	1.3	.7	.4	.2
Ann	5.4	3.2	1.6	.3

+ 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	5/27	5/22	5/19	5/16	5/13	5/11	5/08	5/04	4/30
32	5/14	5/09	5/06	5/03	5/01	4/28	4/25	4/22	4/18
28	5/06	5/01	4/27	4/24	4/20	4/17	4/14	4/10	4/04
24	4/23	4/19	4/15	4/12	4/09	4/07	4/04	3/31	3/26
20	4/16	4/10	4/06	4/02	3/30	3/26	3/23	3/18	3/12
16	4/08	4/01	3/26	3/22	3/18	3/14	3/09	3/04	2/25

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	9/20	9/24	9/27	9/29	10/01	10/03	10/06	10/08	10/12
32	9/27	10/02	10/05	10/08	10/11	10/14	10/17	10/20	10/25
28	10/02	10/08	10/12	10/15	10/18	10/21	10/24	10/28	11/03
24	10/20	10/25	10/29	11/01	11/04	11/07	11/10	11/14	11/19
20	10/25	10/30	11/03	11/06	11/09	11/12	11/16	11/20	11/25
16	10/31	11/06	11/11	11/15	11/18	11/22	11/26	11/30	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	159	153	148	144	140	136	133	128	121
32	184	177	171	167	162	158	153	148	140
28	204	196	190	185	180	175	170	164	156
24	228	221	216	212	208	204	199	194	187
20	250	241	235	229	224	219	213	207	198
16	274	264	257	250	245	239	233	225	215

***** 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	885	693	585	365	146	20	1	5	72	297	637	878	4584
60	730	553	430	235	68	4	0	0	21	163	489	723	3416
57	637	469	339	170	38	1	0	0	7	100	405	630	2796
55	575	413	281	133	24	0	0	0	3	68	350	568	2415
50	421	281	152	61	6	0	0	0	0	21	228	418	1588
32	38	14	0	0	0	0	0	0	0	0	14	44	110

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	176	245	439	633	941	1167	1300	1249	1003	729	367	190	8439
55	0	0	6	76	252	477	587	536	316	84	13	0	2347
57	0	0	2	53	204	418	525	474	260	54	8	0	1998
60	0	0	0	28	141	331	432	382	183	24	2	0	1523
65	0	0	0	8	63	198	279	232	85	3	0	0	868
70	0	0	0	1	20	96	140	106	28	0	0	0	391

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	68	121	246	426	716	950	1070	1023	789	511	201	80	68	189	435	861	1577	2527	3597	4620	5409	5920	6121	6201
45	23	51	134	288	561	800	915	868	641	367	108	30	23	74	208	496	1057	1857	2772	3640	4281	4648	4756	4786
50	2	16	57	167	406	650	760	713	493	226	45	2	2	18	75	242	648	1298	2058	2771	3264	3490	3535	3537
55	0	0	16	79	260	500	605	558	347	115	8	0	0	0	16	95	355	855	1460	2018	2365	2480	2488	2488
60	0	0	0	26	135	351	450	403	207	37	0	0	0	0	0	26	161	512	962	1365	1572	1609	1609	1609
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	96	140	233	337	477	596	689	665	509	357	189	98	96	236	469	806	1283	1879	2568	3233	3742	4099	4288	4386

(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