

# Climatography of the United States

No. 20

1971-2000

Station: ANIMAS 3 ESE, NM

COOP ID: 290417

Climate Division: NM 8

NWS Call Sign:

Elevation: 4,437 Feet Lat: 31° 56N

Lon: 108° 46W

## 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	58.1	26.8	42.5	81	1999	24	48.3	2000	-7+	1948	29	38.6	1992	699	0	.0	.0	26.8	.2	23.9	@
Feb	63.4	29.8	46.6	84	1957	14	52.2	2000	2	1956	3	42.7	1984	515	0	.0	.0	26.6	.3	18.5	.0
Mar	69.9	34.0	52.0	92	1989	11	58.2	1972	7	1965	4	46.7	1977	408	2	.0	.1	30.8	.0	13.2	.0
Apr	77.7	39.3	58.5	99+	1948	19	64.0	1989	18+	1956	4	52.1	1983	217	22	.0	1.1	29.8	.0	5.9	.0
May	86.4	48.2	67.3	105+	1951	26	75.2	2000	25	1953	3	62.3	1975	61	132	.5	10.4	31.0	.0	.5	.0
Jun	95.4	57.2	76.3	110+	1960	27	81.5	1994	37	1988	1	72.8	1991	2	340	7.5	25.5	30.0	.0	.0	.0
Jul	94.4	63.4	78.9	110	1960	5	81.9	1994	48	1992	2	75.8	1986	0	431	5.8	25.5	31.0	.0	.0	.0
Aug	91.3	61.9	76.6	105+	1995	3	81.3	1994	46	1957	31	73.9	1990	0	361	1.3	22.0	31.0	.0	.0	.0
Sep	87.3	56.2	71.8	107	1960	14	76.4	2000	33	1965	30	67.8	1976	14	217	@	12.1	30.0	.0	.0	.0
Oct	78.0	44.5	61.3	95+	1951	1	64.9	1987	19	1996	22	55.6	1976	157	40	.0	2.2	30.9	.0	2.0	.0
Nov	65.9	32.7	49.3	85	1973	9	56.6	1999	6	1957	23	44.4	1976	472	1	.0	.0	28.8	.0	15.3	.0
Dec	57.7	27.0	42.4	80+	1954	3	46.2	1980	-19	1978	9	38.4	1978	702	0	.0	.0	26.3	.2	23.6	.1
Ann	77.1	43.4	60.3	110+	Jul 1960	5	81.9	Jul 1994	-19	Dec 1978	9	38.4	Dec 1978	3247	1546	15.1	98.9	353.0	.7	102.9	.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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

Issue Date: February 2004

(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

006-A

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## No. 20 1971-2000

National Climatic Data Center  
Federal Building  
151 Patton Avenue  
Asheville, North Carolina 28801  
www.ncdc.noaa.gov

**Station: ANIMAS 3 ESE, NM**

**COOP ID: 290417**

**Climate Division: NM 8**

**NWS Call Sign:**

**Elevation: 4,437 Feet Lat: 31°56N**

**Lon: 108°46W**

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med- ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.72	.67	1.44	1960	11	1.93	1993	.00	1999	4.3	2.3	.2	.0	.02	.07	.17	.27	.38	.52	.68	.88	1.17	1.65	2.12
Feb	.54	.51	1.00	1953	10	1.73	1973	.00+	1999	3.7	1.7	.3	.0	.00	.00	.10	.20	.30	.41	.53	.68	.89	1.22	1.55
Mar	.48	.39	1.17	1953	2	1.79	1973	.00+	1984	3.2	1.9	.1	.0	.00	.00	.10	.18	.26	.36	.47	.60	.78	1.09	1.38
Apr	.20	.09	.79	1951	30	.81	1988	.00+	2000	1.7	.7	@	.0	.00	.00	.00	.00	.05	.11	.17	.25	.37	.55	.73
May	.25	.16	.47	1997	20	1.36	1992	.00+	2000	2.2	1.0	.0	.0	.00	.00	.00	.02	.08	.14	.22	.31	.44	.66	.87
Jun	.55	.42	2.94	1952	2	2.47	2000	.00+	1995	2.9	1.3	.2	.1	.00	.00	.02	.10	.20	.32	.47	.66	.94	1.41	1.90
Jul	2.19	1.93	1.70	1968	3	4.64	1988	.61	1993	8.7	5.2	1.4	.4	.77	.98	1.28	1.53	1.77	2.02	2.29	2.60	3.00	3.62	4.19
Aug	2.46	2.02	4.07	1977	12	6.37	1972	.29	1998	8.9	4.9	1.5	.5	.48	.71	1.07	1.40	1.73	2.09	2.50	2.99	3.64	4.68	5.67
Sep	1.41	1.03	2.18	1975	5	4.10+	1983	.00+	2000	5.4	2.9	.9	.3	.00	.16	.41	.64	.87	1.12	1.41	1.76	2.23	3.02	3.77
Oct	1.32	1.09	2.03	1985	16	4.12	1972	.00+	1999	5.0	3.1	.7	.2	.00	.00	.22	.43	.66	.92	1.24	1.64	2.18	3.11	4.03
Nov	.76	.52	1.39	1994	12	2.54	1990	.00+	1999	3.0	2.0	.6	.1	.00	.04	.15	.26	.39	.54	.71	.93	1.24	1.76	2.27
Dec	1.12	.63	1.89	1991	21	5.24	1991	.00+	1996	4.5	2.8	.7	.1	.00	.00	.11	.26	.45	.67	.96	1.34	1.87	2.81	3.75
Ann	12.00	12.23	4.07	Aug 1977	12	6.37	Aug 1972	.00+	Sep 2000	53.5	29.8	6.6	1.7	6.84	7.75	8.97	9.92	10.78	11.64	12.53	13.54	14.79	16.65	18.29

+ 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:  
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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**Climate Division: NM 8**

**NWS Call Sign:**

**Elevation: 4,437 Feet**

**Lat: 31°56N**

**Lon: 108°46W**

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										Snow Fall >= Thresholds					Snow Depth >= Thresholds			
Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	2.0	1.0	#	0	7.0	1987	17	8.0+	1997	6	1997	7	1	1987	.8	.7	.2	.1	.0	.9	.5	.1	.0
Feb	.9	.0	#	0	7.0	1980	8	7.0	1980	7	1980	8	1	1980	.5	.4	.1	@	.0	.4	.1	@	.0
Mar	.7	.0	#	0	4.0	1973	13	5.8	1973	#	1973	13	#	1973	.5	.4	.1	.0	.0	.0	.0	.0	.0
Apr	.2	.0	#	0	3.0	1983	5	4.5	1983	1	1983	5	#+	1995	.1	.1	@	.0	.0	@	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	#	.0	#	0	#	2000	10	#+	2000	#	2000	10	#	2000	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.6	.0	#	0	4.2	1976	13	5.7	1976	4	1976	13	#+	1983	.3	.3	@	.0	.0	@	@	.0	.0
Dec	1.7	.0	#	0	11.8	1978	7	12.2	1978	12	1978	7	2	1978	.8	.6	.1	.1	@	.9	.3	.2	.1
Ann	6.1	1.0	N/A	N/A	11.8	Dec 1978	7	12.2	Dec 1978	12	Dec 1978	7	2	Dec 1978	3.0	2.5	.5	.2	@	2.2	.9	.3	.1

+ 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	5/23	5/17	5/13	5/10	5/06	5/03	4/30	4/26	4/20
32	5/10	5/04	4/30	4/27	4/24	4/21	4/18	4/14	4/08
28	5/02	4/25	4/20	4/16	4/12	4/08	4/03	3/29	3/22
24	4/17	4/09	4/03	3/29	3/24	3/20	3/15	3/09	3/01
20	3/26	3/18	3/12	3/06	3/02	2/25	2/20	2/13	2/05
16	3/06	2/23	2/15	2/08	2/01	1/25	1/18	1/09	12/26
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	10/08	10/12	10/15	10/18	10/20	10/23	10/26	10/29	11/02
32	10/13	10/18	10/22	10/25	10/27	10/30	11/02	11/06	11/11
28	10/20	10/26	10/29	11/01	11/04	11/07	11/11	11/14	11/19
24	10/29	11/03	11/07	11/10	11/13	11/16	11/19	11/23	11/28
20	11/07	11/14	11/18	11/22	11/26	11/29	12/03	12/08	12/14
16	11/12	11/22	11/29	12/05	12/10	12/16	12/23	12/31	1/16
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	183	177	173	170	166	163	160	156	150
32	206	199	194	190	186	181	177	172	165
28	227	220	214	210	206	202	198	193	185
24	260	251	244	238	233	228	222	216	207
20	299	289	281	274	268	262	256	248	237
16	>365	335	322	312	305	297	290	282	270

\* 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

Complete documentation available from:

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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	699	515	408	217	61	2	0	0	14	157	472	702	3247
60	544	375	264	114	19	0	0	0	2	69	328	547	2262
57	451	294	188	69	8	0	0	0	0	37	249	454	1750
55	390	242	145	46	4	0	0	0	0	22	201	392	1442
50	243	128	63	12	0	0	0	0	0	5	104	246	801
32	2	0	0	0	0	0	0	0	0	0	0	2	4

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	326	409	617	795	1094	1328	1454	1384	1194	907	519	323	10350
55	0	7	49	150	385	638	741	671	504	216	30	1	3392
57	0	3	30	114	327	578	679	609	444	169	18	0	2971
60	0	0	13	69	245	488	586	516	355	108	7	0	2387
65	0	0	2	22	132	340	431	361	217	40	1	0	1546
70	0	0	0	4	56	201	276	211	108	9	0	0	865

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	129	219	381	567	857	1096	1215	1143	964	672	296	127	129	348	729	1296	2153	3249	4464	5607	6571	7243	7539	7666
45	44	106	233	418	702	946	1060	988	814	517	173	46	44	150	383	801	1503	2449	3509	4497	5311	5828	6001	6047
50	10	37	116	280	547	796	905	833	664	366	74	6	10	47	163	443	990	1786	2691	3524	4188	4554	4628	4634
55	0	2	45	157	392	646	750	678	514	226	23	0	0	2	47	204	596	1242	1992	2670	3184	3410	3433	3433
60	0	0	6	64	249	496	595	523	364	107	2	0	0	0	6	70	319	815	1410	1933	2297	2404	2406	2406
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	146	209	316	424	561	658	769	743	622	449	252	141	146	355	671	1095	1656	2314	3083	3826	4448	4897	5149	5290

(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](http://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.  
Complete documentation for the 1971-2000 Normals is available on the internet from:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/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 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.

- |   |   |
|---|---|
| <ol style="list-style-type: none"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
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## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)