

Climatology of the United States

No. 20

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

Station: CROSSROADS 2, NM

1971-2000

COOP ID: 292207

Climate Division: NM 7

NWS Call Sign:

Elevation: 4,150 Feet Lat: 33° 31N

Lon: 103° 21W

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	53.9	22.1	38.0	79	1969	8	43.1	1999	-23	1963	13	32.7	1979	837	0	.0	.0	22.2	2.0	27.1	.1
Feb	59.2	25.4	42.3	84	1962	12	49.0	2000	-7	1960	25	36.0	1985	637	0	.0	.0	23.3	1.2	21.4	.1
Mar	66.7	31.5	49.1	90+	1971	27	55.8	1974	6+	1965	20	44.9	1988	493	0	.0	.1	28.8	.2	14.4	.0
Apr	74.5	39.8	57.2	97	1989	21	62.5	1989	18+	1973	9	51.1	1997	254	17	.0	.8	29.3	.0	5.0	.0
May	82.6	49.9	66.3	101+	1974	28	73.2	1996	23	1967	2	62.5	1983	75	114	.5	6.7	31.0	.0	.1	.0
Jun	90.1	58.8	74.5	109	1981	21	80.7	1990	43+	1964	1	71.4	1973	4	287	3.2	17.3	30.0	.0	.0	.0
Jul	91.5	62.2	76.9	108	1995	27	81.2	1980	52+	1961	22	71.6	1976	0	367	2.6	20.4	31.0	.0	.0	.0
Aug	89.2	61.0	75.1	103+	1980	2	78.7	2000	48	1976	29	71.1	1971	2	315	.8	16.6	31.0	.0	.0	.0
Sep	82.8	53.9	68.4	102	1983	4	74.2	1977	32	1983	21	62.6	1974	48	148	.3	7.8	29.8	.0	@	.0
Oct	74.5	42.6	58.6	97	1979	7	62.1	1998	10	1991	31	52.0	1976	211	11	.0	.9	30.2	.0	2.2	.0
Nov	62.7	30.8	46.8	85+	1980	7	52.7	1999	5+	1976	29	40.9	2000	548	0	.0	.0	25.9	.3	15.8	.0
Dec	54.8	23.0	38.9	78	1987	4	44.1	1980	-8	1983	29	33.0	1989	810	0	.0	.0	22.6	1.7	25.6	.3
Ann	73.5	41.8	57.7	109	Jun 1981	21	81.2	Jul 1980	-23	Jan 1963	13	32.7	Jan 1979	3919	1259	7.4	70.6	335.1	5.4	111.6	.5

+ 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

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

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Lon: 103°21W

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	.34	.21	1.50	2001	10	1.59	1992	.00+	1998	1.5	1.2	.2	.0	.00	.00	.00	.03	.11	.20	.30	.43	.60	.90	1.19
Feb	.36	.25	.90	1990	27	1.53	1975	.00+	1998	1.9	1.3	.1	.0	.00	.00	.00	.05	.13	.22	.32	.45	.64	.95	1.25
Mar	.37	.20	1.50	1998	15	1.84	1998	.00+	1997	1.5	1.0	.2	.1	.00	.00	.00	.03	.11	.20	.32	.46	.66	1.01	1.34
Apr	.60	.46	1.75	1970	17	2.24	1977	.00+	1996	2.2	1.6	.3	@	.00	.00	.11	.23	.34	.46	.60	.77	1.00	1.36	1.72
May	1.99	1.78	3.20	1959	7	6.25	1992	.00	1989	4.3	3.5	1.5	.5	.04	.16	.41	.69	1.01	1.38	1.83	2.42	3.23	4.63	6.02
Jun	1.97	1.77	2.50	1977	24	4.87	2000	.20	1990	3.8	3.3	1.4	.5	.27	.43	.72	.99	1.28	1.59	1.96	2.41	3.01	4.00	4.96
Jul	2.65	2.52	4.46	1991	14	8.45	1991	.12	1980	4.8	3.8	1.6	.6	.28	.48	.85	1.22	1.61	2.06	2.59	3.24	4.13	5.60	7.04
Aug	2.87	2.47	4.30	1981	12	8.35	1974	.02	2000	5.6	5.0	1.6	.8	.19	.37	.73	1.12	1.56	2.07	2.69	3.47	4.57	6.41	8.25
Sep	2.18	2.13	2.87	1987	7	5.08	1974	.00+	2000	4.5	4.0	1.4	.5	.00	.26	.67	1.01	1.37	1.76	2.20	2.72	3.44	4.62	5.75
Oct	1.42	.81	2.56	1960	17	6.66	1981	.00+	1995	3.4	2.7	1.0	.4	.00	.00	.15	.37	.63	.93	1.29	1.75	2.40	3.48	4.56
Nov	.61	.40	1.70	1978	4	2.26	1978	.00+	1993	1.9	1.5	.4	.1	.00	.00	.07	.17	.29	.41	.57	.76	1.04	1.49	1.94
Dec	.48	.17	1.60	1960	13	3.29	1991	.00+	1996	2.1	1.5	.2	@	.00	.00	.00	.02	.10	.22	.36	.56	.84	1.33	1.84
Ann	15.84	15.35	4.46	Jul 1991	14	8.45	Jul 1991	.00+	Sep 2000	37.5	30.4	9.9	3.5	8.83	10.07	11.71	13.01	14.19	15.36	16.59	17.98	19.70	22.26	24.52

+ 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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Station: CROSSROADS 2, NM

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Climate Division: NM 7

NWS Call Sign:

Elevation: 4,150 Feet

Lat: 33°31N

Lon: 103°21W

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	.5	.0	#	0	2.0	1987	20	3.0	1991	4	1992	11	#+	1997	.4	.3	.0	.0	.0	.0	.0	.0	.0
Feb	1.0	.0	0	0	6.5	1988	4	6.5	1988	0	0	0	0	0	.4	.4	.1	.1	.0	.0	.0	.0	.0
Mar	.7	.0	0	0	3.0	1987	25	5.0	1989	0	0	0	0	0	.3	.3	.1	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.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	.2	.0	0	0	3.0	1991	30	3.0	1991	0	0	0	0	0	.1	.1	.1	.0	.0	.0	.0	.0	.0
Nov	1.2	.0	#	0	6.0	1992	23	11.0	1992	#	1997	15	#	1997	.2	.2	.2	.1	.0	.0	.0	.0	.0
Dec	1.7	.0	#	0	6.0	1987	13	13.3	1986	2+	2000	3	#+	2000	.7	.6	.4	.1	.0	.1	.0	.0	.0
Ann	5.3	.0	N/A	N/A	6.5	Feb 1988	4	13.3	Dec 1986	4	Jan 1992	11	#+	Dec 2000	2.1	1.9	.9	.3	.0	.1	.0	.0	.0

+ 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

Complete documentation available from:

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Climate Division: NM 7

NWS Call Sign:

Elevation: 4,150 Feet

Lat: 33° 31N

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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	5/15	5/11	5/07	5/05	5/02	4/29	4/26	4/23	4/18
32	4/29	4/25	4/22	4/20	4/17	4/15	4/12	4/09	4/05
28	4/19	4/15	4/11	4/08	4/06	4/03	3/31	3/28	3/23
24	4/12	4/07	4/02	3/30	3/27	3/23	3/20	3/16	3/10
20	4/03	3/27	3/22	3/18	3/14	3/10	3/06	3/01	2/22
16	3/15	3/08	3/02	2/25	2/21	2/16	2/11	2/06	1/29
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	9/27	10/01	10/04	10/07	10/09	10/11	10/14	10/17	10/21
32	10/06	10/11	10/15	10/19	10/22	10/25	10/28	11/01	11/07
28	10/17	10/22	10/27	10/30	11/03	11/06	11/10	11/14	11/20
24	10/28	11/03	11/07	11/11	11/14	11/17	11/21	11/25	12/01
20	11/05	11/11	11/15	11/19	11/22	11/25	11/29	12/03	12/09
16	11/09	11/17	11/22	11/27	12/01	12/06	12/11	12/16	12/24
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	177	171	167	163	159	156	152	148	142
32	208	201	196	191	187	183	179	173	166
28	231	224	219	214	210	206	202	197	190
24	256	247	241	236	232	227	222	216	208
20	279	270	263	258	252	247	241	235	226
16	315	304	296	289	283	277	270	262	251

* 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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Elevation: 4,150 Feet Lat: 33°31N Lon: 103°21W

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	837	637	493	254	75	4	0	2	48	211	548	810	3919
60	682	497	342	143	26	0	0	0	13	97	406	655	2861
57	589	414	258	92	11	0	0	0	5	52	325	562	2308
55	527	361	207	65	6	0	0	0	2	33	275	501	1977
50	376	235	104	21	1	0	0	0	0	7	169	350	1263
32	25	10	0	0	0	0	0	0	0	0	7	18	60

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	212	297	530	754	1062	1273	1390	1336	1091	823	449	231	9448
55	0	4	24	128	355	583	677	623	403	142	27	1	2967
57	0	1	14	95	298	523	615	561	345	100	17	0	2569
60	0	0	4	56	220	433	522	468	263	52	8	0	2026
65	0	0	0	17	114	287	367	315	148	11	0	0	1259
70	0	0	0	4	45	159	221	172	68	1	0	0	670

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	102	182	343	543	837	1050	1157	1100	873	600	263	115	102	284	627	1170	2007	3057	4214	5314	6187	6787	7050	7165
45	38	94	216	399	682	900	1002	945	724	453	157	48	38	132	348	747	1429	2329	3331	4276	5000	5453	5610	5658
50	8	36	116	264	529	750	847	790	577	307	76	10	8	44	160	424	953	1703	2550	3340	3917	4224	4300	4310
55	0	7	44	148	376	600	692	635	431	180	23	0	0	7	51	199	575	1175	1867	2502	2933	3113	3136	3136
60	0	0	7	66	236	450	537	480	291	78	2	0	0	0	7	73	309	759	1296	1776	2067	2145	2147	2147
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	125	185	292	389	536	666	747	719	562	404	220	132	125	310	602	991	1527	2193	2940	3659	4221	4625	4845	4977

(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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
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.

- 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/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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