

Climatology of the United States

No. 20

1971-2000

Station: MOSQUERO 1 NE, NM

COOP ID: 295937

Climate Division: NM 3

NWS Call Sign:

Elevation: 5,465 Feet Lat: 35°48N

Lon: 103°56W

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	48.1	19.1	33.6	80	1935	2	40.7	1986	-24	1963	12	23.3	1979	973	0	.0	.0	14.0	3.7	29.9	1.1
Feb	53.4	22.7	38.1	78	1996	21	44.4	2000	-19	1933	8	32.0	1989	756	0	.0	.0	18.0	2.3	25.2	.6
Mar	61.1	28.1	44.6	86	1989	11	50.1	1972	-13+	1948	4	41.3	1996	633	0	.0	.0	25.6	.4	21.9	.0
Apr	69.4	34.8	52.1	94	1989	21	57.6	1981	5	1945	3	45.3	1973	392	5	.0	.1	28.3	.0	11.1	.0
May	77.9	44.4	61.2	100	2000	30	67.9	1974	20	1927	9	57.4	1983	164	45	@	1.4	30.8	.0	1.5	.0
Jun	86.8	54.0	70.4	103+	1998	27	76.3	1990	35	1955	10	66.9+	1983	26	187	.5	9.0	30.0	.0	.0	.0
Jul	88.9	58.9	73.9	104	1934	12	79.3	1980	40	1943	5	71.1	1991	1	276	.2	12.4	31.0	.0	.0	.0
Aug	85.6	57.5	71.6	101	1944	4	75.8	2000	40	1932	31	68.9	1990	7	210	.1	6.3	31.0	.0	.0	.0
Sep	79.7	50.5	65.1	98+	1945	4	70.3	1998	18	1936	27	60.7	1974	77	78	.0	1.7	29.8	.0	.4	.0
Oct	70.1	38.8	54.5	93	2000	1	57.7	1992	0	1993	30	49.3	1976	330	2	.0	.1	29.9	.1	6.1	.0
Nov	56.6	27.2	41.9	82	1994	1	47.6	1981	-16	1976	28	33.9	1972	693	0	.0	.0	21.4	.9	21.9	.1
Dec	48.1	20.0	34.1	78	1980	17	43.6	1980	-15	1978	9	25.2	1983	959	0	.0	.0	14.0	3.4	28.9	1.1
Ann	68.8	38.0	53.4	104	Jul 1934	12	79.3	Jul 1980	-24	Jan 1963	12	23.3	Jan 1979	5011	803	.8	31.0	303.8	10.8	146.9	2.9

+ 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: 1926-2001

(3) Derived from 1971-2000 serially complete daily data

065-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: MOSQUERO 1 NE, NM

COOP ID: 295937

Climate Division: NM 3

NWS Call Sign:

Elevation: 5,465 Feet Lat: 35°48N

Lon: 103°56W

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	.37	.31	1.01	1990	18	1.34	1990	.00	1998	3.2	1.3	.1	@	.01	.03	.08	.13	.19	.26	.34	.45	.60	.86	1.12
Feb	.35	.24	.85+	1934	8	1.83	1987	.00+	2000	3.0	1.0	.1	.0	.00	.00	.05	.10	.16	.23	.32	.42	.58	.83	1.09
Mar	.77	.52	1.20	1941	21	2.39	1981	.00	1972	4.0	2.0	.5	.1	.02	.06	.16	.27	.39	.54	.71	.94	1.25	1.79	2.33
Apr	1.03	.62	2.75	1999	30	4.29	1999	.00+	1996	4.5	2.3	.5	.2	.00	.03	.15	.29	.46	.66	.91	1.24	1.70	2.50	3.30
May	1.95	1.99	2.85	1941	1	4.10	1986	.03	1974	6.6	4.0	1.3	.4	.20	.35	.61	.88	1.18	1.51	1.89	2.37	3.03	4.12	5.19
Jun	2.24	2.09	4.06	1986	9	6.95	1986	.16	1998	7.5	4.8	1.4	.4	.36	.55	.88	1.19	1.51	1.85	2.25	2.73	3.38	4.43	5.43
Jul	2.63	2.38	2.56	1982	8	6.68	1982	.52	1978	9.2	5.3	1.7	.5	.82	1.07	1.44	1.76	2.07	2.39	2.74	3.15	3.67	4.50	5.26
Aug	2.94	2.52	2.99	1981	11	7.08	1981	.50	1978	9.9	5.7	1.8	.7	.77	1.05	1.47	1.85	2.21	2.60	3.03	3.54	4.21	5.26	6.24
Sep	1.77	1.44	3.30	1961	18	4.37	1981	.05	2000	6.2	3.1	1.1	.3	.12	.23	.46	.70	.97	1.29	1.67	2.15	2.82	3.95	5.07
Oct	1.17	.59	3.96	1928	13	4.64	2000	.00+	1995	4.5	2.6	.6	.2	.00	.00	.15	.32	.52	.76	1.05	1.43	1.95	2.86	3.77
Nov	.80	.53	3.01	1978	3	4.93	1978	.00+	1989	3.7	1.8	.4	.2	.00	.04	.15	.26	.40	.55	.74	.98	1.31	1.88	2.45
Dec	.49	.37	1.04	1987	13	1.67	1997	.00	1976	3.0	1.4	.2	@	.01	.05	.11	.18	.26	.35	.46	.60	.79	1.11	1.43
Ann	16.51	16.04	4.06	Jun 1986	9	7.08	Aug 1981	.00+	Feb 2000	65.3	35.3	9.7	3.0	10.84	11.90	13.28	14.34	15.29	16.21	17.17	18.24	19.54	21.45	23.12

+ 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: 1926-2001

(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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Station: MOSQUERO 1 NE, NM

COOP ID: 295937

Climate Division: NM 3

NWS Call Sign:

Elevation: 5,465 Feet

Lat: 35°48N

Lon: 103°56W

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	3.9	3.5	1	#	10.0	1990	18	15.0	1987	13	1990	19	4	1990	2.3	1.7	.4	.1	@	5.5	2.2	.9	.3
Feb	3.3	2.3	#	#	9.0	1990	20	14.0	1987	9	1990	20	3	1990	1.9	1.3	.4	.1	.0	3.2	1.3	.7	.0
Mar	3.7	2.0	#	#	12.0	1994	8	19.5	1994	12	1994	8	1	1994	1.9	1.6	.5	.1	@	1.3	.3	.2	@
Apr	2.1	.0	#	#	8.0	1979	3	8.0+	1997	8	1997	25	1	1997	.7	.7	.3	.1	.0	.5	.2	.1	.0
May	.8	.0	#	0	6.0	1978	2	11.0	1978	6	1978	3	#+	1990	.2	.2	.2	.1	.0	.2	.1	.1	.0
Jun	.0	.0	#	0	.0	0	0	.0	0	1	1975	9	#	1975	.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	1	1979	27	#	1979	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.1	1996	27	.1	1996	0	0	0	0	0	@	.0	.0	.0	.0	.0	.0	.0	.0
Oct	1.2	.0	#	0	5.0	1991	31	11.0	1984	5	1991	31	#+	1999	.4	.4	.2	@	.0	.3	.1	@	.0
Nov	3.3	2.4	#	#	9.0	1991	16	13.1	1972	7	1996	30	1	1992	1.5	1.2	.5	.1	.0	2.1	.6	.1	.0
Dec	5.0	3.8	1	#	12.0	1987	13	17.5	1987	12	1987	13	3	1992	2.0	1.8	.7	.2	@	6.4	2.8	1.3	.1
Ann	23.3	14.0	N/A	N/A	12.0+	Mar 1994	8	19.5	Mar 1994	13	Jan 1990	19	4	Jan 1990	10.9	8.9	3.2	.8	@	19.5	7.6	3.4	.4

+ 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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Elevation: 5,465 Feet

Lat: 35° 48N

Lon: 103° 56W

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	5/29	5/24	5/21	5/18	5/15	5/13	5/10	5/07	5/02
32	5/16	5/12	5/09	5/07	5/05	5/02	4/30	4/27	4/23
28	5/05	5/01	4/28	4/25	4/23	4/20	4/18	4/15	4/11
24	4/25	4/20	4/17	4/14	4/12	4/09	4/06	4/03	3/29
20	4/17	4/12	4/08	4/05	4/02	3/29	3/26	3/22	3/17
16	4/10	4/03	3/28	3/24	3/19	3/15	3/11	3/05	2/26
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	9/21	9/25	9/28	9/30	10/02	10/05	10/07	10/10	10/14
32	9/25	9/29	10/03	10/05	10/08	10/11	10/13	10/17	10/21
28	10/05	10/10	10/14	10/17	10/19	10/22	10/25	10/29	11/03
24	10/15	10/20	10/23	10/26	10/29	11/01	11/04	11/07	11/12
20	10/23	10/28	11/01	11/04	11/07	11/09	11/13	11/16	11/21
16	11/01	11/06	11/10	11/14	11/17	11/20	11/23	11/27	12/03
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	152	147	143	139	135	131	126	119
32	176	169	164	160	156	152	147	142	135
28	196	190	186	182	179	175	172	168	162
24	221	214	209	204	200	196	191	186	178
20	242	234	228	223	218	214	209	203	195
16	268	259	253	247	242	236	231	224	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)

Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	973	756	633	392	164	26	1	7	77	330	693	959	5011
60	818	616	478	258	78	6	0	0	23	191	543	804	3815
57	725	532	386	188	43	2	0	0	8	123	457	711	3175
55	663	476	327	149	27	0	0	0	3	87	401	649	2782
50	512	341	190	71	6	0	0	0	0	31	271	497	1919
32	101	28	1	0	0	0	0	0	0	0	22	87	239

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	151	196	391	603	904	1152	1298	1226	992	695	319	151	8078
55	0	0	4	62	219	462	585	513	305	69	8	0	2227
57	0	0	2	42	173	403	523	451	250	44	4	0	1892
60	0	0	0	21	114	317	430	358	174	19	0	0	1433
65	0	0	0	5	45	187	276	210	78	2	0	0	803
70	0	0	0	0	12	90	134	89	24	0	0	0	349

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	37	79	186	361	636	898	1040	977	752	454	144	45	37	116	302	663	1299	2197	3237	4214	4966	5420	5564	5609
45	8	29	93	233	482	748	885	822	604	311	66	12	8	37	130	363	845	1593	2478	3300	3904	4215	4281	4293
50	0	3	31	128	333	598	730	667	458	181	23	0	0	3	34	162	495	1093	1823	2490	2948	3129	3152	3152
55	0	0	6	52	198	448	575	512	316	85	3	0	0	0	6	58	256	704	1279	1791	2107	2192	2195	2195
60	0	0	0	14	91	300	420	357	183	25	0	0	0	0	0	14	105	405	825	1182	1365	1390	1390	1390
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	60	97	184	280	417	565	679	640	478	316	131	62	60	157	341	621	1038	1603	2282	2922	3400	3716	3847	3909

(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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. 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