

Climatology of the United States

No. 20

1971-2000

Station: COLUMBUS, NM

COOP ID: 292024

Climate Division: NM 8

NWS Call Sign:

Elevation: 4,065 Feet Lat: 31° 50N

Lon: 107° 38W

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	59.2	29.9	44.6	80	2000	19	49.0	1999	-12	1948	29	39.3	1973	633	0	.0	.0	26.7	.2	19.8	.0
Feb	64.9	33.6	49.3	86	1986	26	55.0	1996	5+	1963	13	45.0	1973	441	0	.0	.0	27.0	.2	12.8	.0
Mar	71.3	38.8	55.1	91	1989	12	59.8	1989	10	1965	4	49.3	1973	316	8	.0	@	30.9	.0	6.2	.0
Apr	78.4	45.2	61.8	98	1989	21	69.4	1989	20	1968	22	54.7	1983	156	60	.0	1.6	29.9	.0	1.6	.0
May	86.8	54.3	70.6	105	1951	27	76.2	2000	28	1967	1	66.1	1972	38	209	.6	12.1	31.0	.0	.0	.0
Jun	95.5	63.8	79.7	111+	1994	26	85.2+	1994	43	1965	11	75.4	1973	0	440	9.4	26.9	30.0	.0	.0	.0
Jul	94.9	67.5	81.2	109+	1951	8	84.9	1980	54	1970	14	77.5	1976	0	502	7.6	27.3	31.0	.0	.0	.0
Aug	91.8	65.7	78.8	105+	1969	16	83.9	1994	52+	1968	22	75.1	1990	0	426	2.2	24.0	31.0	.0	.0	.0
Sep	87.4	59.9	73.7	103	1948	4	78.6	1998	40	1970	23	69.4	1976	9	268	.5	14.3	30.0	.0	.0	.0
Oct	78.1	48.3	63.2	96+	1967	5	67.6	1987	17	1970	28	55.8	1976	119	64	.0	2.6	30.9	.0	.6	.0
Nov	66.4	36.6	51.5	86+	1973	8	55.7	1999	2	1976	29	45.0	1976	408	3	.0	.0	28.8	@	8.9	.0
Dec	58.5	30.1	44.3	80	1987	11	49.1	1981	-7	1953	24	39.8	1976	643	0	.0	.0	26.1	.1	19.7	.0
Ann	77.8	47.8	62.8	111+	Jun 1994	26	85.2+	Jun 1994	-12	Jan 1948	29	39.3	Jan 1973	2763	1980	20.3	108.8	353.3	.5	69.6	.0

+ 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

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: COLUMBUS, NM

COOP ID: 292024

Climate Division: NM 8

NWS Call Sign:

Elevation: 4,065 Feet Lat: 31°50N

Lon: 107°38W

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	.56	.41	.63	1993	18	2.61	1993	.00+	2000	4.0	2.0	.1	.0	.00	.00	.03	.13	.24	.36	.51	.70	.96	1.41	1.86
Feb	.41	.37	.90	1953	28	1.98	1973	.00+	2000	2.9	1.2	.1	.0	.00	.00	.00	.09	.18	.27	.38	.52	.71	1.04	1.36
Mar	.30	.20	.99	1964	18	.90	2000	.00+	1999	2.1	1.0	.1	.0	.00	.00	.00	.07	.15	.22	.29	.39	.51	.72	.91
Apr	.28	.09	.88	1981	23	1.73	1981	.00+	2000	1.4	.8	.1	.0	.00	.00	.00	.00	.00	.09	.20	.34	.52	.82	1.11
May	.26	.12	1.18	1952	18	1.53	1992	.00+	2000	1.8	.7	.1	.0	.00	.00	.00	.00	.06	.13	.21	.32	.47	.72	.97
Jun	.60	.21	2.90	2000	27	8.55	2000	.00+	1995	2.3	1.2	.3	.1	.00	.00	.00	.01	.07	.17	.34	.59	1.00	1.79	2.65
Jul	2.00	1.82	2.48	1955	26	4.34	1972	.06	1980	8.1	4.8	1.1	.4	.33	.50	.79	1.07	1.35	1.66	2.01	2.44	3.02	3.96	4.85
Aug	2.00	1.93	2.78	1954	6	5.19	1984	.20	1975	7.1	4.6	1.4	.3	.32	.49	.78	1.05	1.34	1.65	2.01	2.45	3.03	3.98	4.89
Sep	1.33	1.14	1.92	1978	21	3.78	1978	.00+	2000	5.3	3.7	.7	.2	.00	.25	.52	.73	.93	1.15	1.39	1.66	2.04	2.63	3.19
Oct	1.10	.93	1.74	1954	2	3.07	1984	.00+	1995	4.2	2.7	.7	.1	.00	.00	.15	.34	.54	.77	1.04	1.38	1.85	2.62	3.39
Nov	.59	.34	1.82	1961	8	2.97	1978	.00+	1999	2.7	1.7	.3	.1	.00	.02	.08	.16	.26	.37	.52	.70	.97	1.44	1.91
Dec	.84	.46	1.22	1982	1	3.69	1982	.00+	2000	3.4	2.3	.6	@	.00	.00	.02	.13	.27	.45	.68	.99	1.44	2.22	3.04
Ann	10.27	10.06	2.90	Jun 2000	27	8.55	Jun 2000	.00+	Dec 2000	45.3	26.7	5.6	1.2	5.65	6.46	7.54	8.40	9.18	9.95	10.76	11.68	12.82	14.52	16.02

+ 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

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Station: COLUMBUS, NM

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NWS Call Sign:

Elevation: 4,065 Feet

Lat: 31° 50N

Lon: 107° 38W

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	.8	.0	#	0	5.0	1973	2	6.0	1985	6	1985	13	#+	1997	.4	.2	.1	@	.0	.2	.2	.1	.0
Feb	.3	.0	#	0	3.0	1973	22	3.5	1973	1	1987	21	#+	1987	.1	.1	.1	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.2	1975	29	.2	1975	0	0	0	0	0	@	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.2	.0	#	0	4.0	1983	6	5.0	1983	5	1983	6	#	1983	.1	.1	@	.0	.0	.1	@	@	.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	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.3	.0	#	0	4.5	1976	13	4.5	1976	4+	1980	16	#+	1980	.1	.1	.1	.0	.0	.1	@	.0	.0
Dec	.4	.0	#	0	8.0	1982	31	8.0	1982	3+	1987	26	#+	1987	.4	.2	.1	@	.0	.2	.1	.0	.0
Ann	2.0	.0	N/A	N/A	8.0	Dec 1982	31	8.0	Dec 1982	6	Jan 1985	13	#+	Jan 1997	1.1	.7	.4	@	.0	.6	.3	.1	.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

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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	4/30	4/25	4/21	4/18	4/15	4/12	4/09	4/06	4/01
32	4/20	4/14	4/09	4/05	4/01	3/29	3/25	3/20	3/14
28	4/10	4/02	3/28	3/23	3/18	3/14	3/09	3/03	2/23
24	3/26	3/16	3/09	3/02	2/25	2/19	2/13	2/05	1/26
20	3/05	2/22	2/14	2/07	1/31	1/25	1/17	1/09	12/26
16	2/22	2/10	1/31	1/23	1/14	1/05	12/23	0/00	0/00
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	10/15	10/20	10/23	10/26	10/28	10/31	11/03	11/06	11/10
32	10/20	10/26	10/30	11/02	11/06	11/09	11/13	11/17	11/22
28	10/29	11/04	11/08	11/11	11/14	11/18	11/21	11/25	12/01
24	11/14	11/19	11/22	11/25	11/28	11/30	12/03	12/06	12/11
20	11/25	11/30	12/04	12/07	12/10	12/14	12/17	12/21	12/27
16	12/02	12/11	12/18	12/24	12/31	1/07	1/16	0/00	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	217	209	204	200	195	191	187	181	174
32	244	235	229	223	218	212	207	200	191
28	272	261	253	247	241	234	228	220	209
24	310	298	289	282	275	268	261	253	241
20	362	341	330	321	313	305	297	288	275
16	>365	>365	>365	>365	>365	344	328	313	295

* 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	633	441	316	156	38	0	0	0	9	119	408	643	2763
60	478	303	186	77	11	0	0	0	1	49	269	488	1862
57	387	226	124	43	5	0	0	0	0	24	197	395	1401
55	328	178	90	28	2	0	0	0	0	14	154	335	1129
50	191	84	30	7	0	0	0	0	0	2	72	194	580
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	390	483	715	893	1194	1429	1525	1449	1249	968	585	380	11260
55	4	17	92	231	483	739	812	736	559	268	49	2	3992
57	1	9	63	187	424	679	750	674	499	217	32	0	3535
60	0	2	32	130	337	589	657	581	410	148	14	0	2900
65	0	0	8	60	209	440	502	426	268	64	3	0	1980
70	0	0	1	20	110	294	347	274	148	20	0	0	1214

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	173	284	476	675	966	1213	1301	1225	1029	741	367	173	173	457	933	1608	2574	3787	5088	6313	7342	8083	8450	8623
45	76	159	327	526	811	1063	1146	1070	879	588	233	73	76	235	562	1088	1899	2962	4108	5178	6057	6645	6878	6951
50	20	66	192	381	656	913	991	915	729	434	121	22	20	86	278	659	1315	2228	3219	4134	4863	5297	5418	5440
55	0	18	87	245	501	763	836	760	579	287	51	0	0	18	105	350	851	1614	2450	3210	3789	4076	4127	4127
60	0	1	24	126	347	613	681	605	429	159	8	0	0	1	25	151	498	1111	1792	2397	2826	2985	2993	2993
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	156	225	341	460	623	754	836	806	669	476	268	149	156	381	722	1182	1805	2559	3395	4201	4870	5346	5614	5763

(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