

Climatography of the United States

No. 20

1971-2000

Station: CONCHAS DAM, NM

COOP ID: 292030

Climate Division: NM 3

NWS Call Sign:

Elevation: 4,244 Feet Lat: 35° 24N

Lon: 104° 11W

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	51.8	21.8	36.8	80+	1950	20	43.1	2000	-20	1963	13	28.9	1979	876	0	.0	.0	19.8	2.6	28.1	.3
Feb	56.9	26.2	41.6	82	1987	11	49.3	2000	-12	1951	1	35.3	1985	656	0	.0	.0	21.5	1.3	21.1	.2
Mar	63.8	33.9	48.9	91	1988	20	54.3	1989	1	1948	11	45.4	1984	501	0	.0	@	28.2	.2	12.0	.0
Apr	71.1	42.3	56.7	97	1989	22	61.2	1992	17	1973	8	49.4	1973	270	20	.0	.5	28.8	@	3.0	.0
May	80.1	51.9	66.0	106	1998	30	73.3	1996	30	1954	3	60.6	1983	91	121	.2	5.1	30.9	.0	.1	.0
Jun	89.8	61.0	75.4	114	1998	28	81.9	1990	41	1983	1	70.0	1983	7	320	3.2	18.1	30.0	.0	.0	.0
Jul	92.9	65.6	79.3	107+	1992	7	84.4	1980	51+	1992	18	76.0	1975	0	442	4.2	24.5	31.0	.0	.0	.0
Aug	90.8	64.1	77.5	107	1994	19	81.9	2000	46	1973	1	73.7	1971	0	385	1.5	21.3	31.0	.0	.0	.0
Sep	83.4	56.5	70.0	103	1995	6	76.4	1998	35+	1971	18	65.0	1974	29	178	.3	9.8	29.8	.0	.0	.0
Oct	73.9	44.7	59.3	97	2000	3	62.6	1979	16	1991	31	53.4	1984	203	26	.0	1.2	30.2	.0	1.4	.0
Nov	61.0	32.0	46.5	86	1980	9	53.7	1999	2	1976	28	38.7	1972	557	2	.0	.0	25.2	.4	14.5	.0
Dec	52.1	23.4	37.8	78+	1955	23	43.8	1994	-10	1990	24	30.6	1983	846	0	.0	.0	20.3	1.9	26.5	.3
Ann	72.3	43.6	58.0	114	Jun 1998	28	84.4	Jul 1980	-20	Jan 1963	13	28.9	Jan 1979	4036	1494	9.4	80.5	326.7	6.4	106.7	.8

+ 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

028-A

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: CONCHAS DAM, NM

COOP ID: 292030

Climate Division: NM 3

NWS Call Sign:

Elevation: 4,244 Feet Lat: 35°24N

Lon: 104°11W

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	.41	.34	1.42	1987	17	1.77	1987	.00+	2000	2.7	1.4	.1	@	.00	.00	.10	.18	.25	.33	.42	.53	.67	.89	1.10
Feb	.39	.23	1.04	1949	26	1.51	1986	.00+	2000	2.6	1.2	.2	.0	.00	.00	.01	.05	.11	.19	.29	.44	.66	1.05	1.46
Mar	.79	.61	1.61	1985	20	2.87	1985	.00	1996	3.7	2.1	.5	.1	.01	.04	.12	.23	.35	.50	.69	.94	1.30	1.93	2.56
Apr	.87	.63	1.59	1997	25	4.39	1997	.00+	1996	3.9	2.2	.5	.1	.00	.03	.13	.25	.39	.56	.77	1.05	1.45	2.13	2.82
May	1.64	1.43	1.90	1999	1	4.00	1987	.00	1974	6.1	3.4	1.2	.3	.08	.23	.48	.72	.98	1.26	1.60	2.02	2.58	3.52	4.43
Jun	2.02	1.71	2.87	1978	28	5.90	1978	.00	1998	7.0	4.3	1.4	.4	.14	.34	.67	.96	1.27	1.62	2.01	2.49	3.15	4.22	5.25
Jul	2.67	2.93	3.65	1955	4	6.78	1996	.15	1978	8.9	5.2	1.9	.5	.44	.67	1.06	1.42	1.80	2.21	2.68	3.26	4.02	5.26	6.45
Aug	2.64	2.54	3.53	1960	10	5.74	1990	.35	1973	9.4	5.6	1.5	.5	.55	.79	1.17	1.53	1.88	2.26	2.69	3.21	3.89	4.98	6.01
Sep	1.66	1.57	2.14	1972	1	5.38	1972	.07	2000	5.8	3.2	1.0	.4	.18	.31	.54	.77	1.02	1.30	1.62	2.02	2.57	3.48	4.36
Oct	1.18	.81	2.84	1985	17	5.47	2000	.01	1975	4.3	2.4	.7	.2	.02	.05	.15	.28	.45	.67	.96	1.36	1.94	2.99	4.08
Nov	.77	.57	1.48	1986	3	3.04	1986	.00+	1989	3.0	1.5	.4	.2	.00	.03	.14	.25	.37	.52	.70	.93	1.26	1.81	2.36
Dec	.47	.31	1.09	1959	16	1.92	1997	.00+	1985	3.0	1.4	.2	.0	.00	.02	.09	.16	.24	.33	.44	.58	.78	1.10	1.43
Ann	15.51	15.38	3.65	Jul 1955	4	6.78	Jul 1996	.00+	Feb 2000	60.4	33.9	9.6	2.7	9.52	10.61	12.05	13.16	14.17	15.15	16.18	17.33	18.75	20.83	22.67

+ 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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Station: CONCHAS DAM, NM

COOP ID: 292030

Climate Division: NM 3

NWS Call Sign:

Elevation: 4,244 Feet

Lat: 35° 24N

Lon: 104° 11W

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	2.4	1	#	15.0	1987	17	17.5	1987	15	1987	17	2	1988	1.3	1.0	.3	.2	@	1.7	.7	.3	.0
Feb	3.8	.3	#	0	12.0	1986	6	27.8	1986	10	1990	20	1	1990	1.1	.8	.5	.3	.1	.8	.3	.2	@
Mar	.6	.0	#	0	8.0	1988	3	8.5	1988	3+	1998	9	#+	1998	.2	.1	.1	@	.0	.1	@	.0	.0
Apr	.2	.0	#	0	4.0	1997	25	5.0	1997	2	1983	4	#+	1983	.1	.1	@	.0	.0	.0	.0	.0	.0
May	.2	.0	#	0	5.5	1978	2	5.5	1978	6	1978	2	#	1978	@	@	@	@	.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	.1	.0	#	0	3.6	1991	31	3.6	1991	3	1991	31	#	1991	@	@	@	.0	.0	@	@	.0	.0
Nov	1.5	.0	#	0	6.0	1980	25	9.1	1980	7	1982	27	1	1980	.6	.4	.2	.1	.0	.2	.1	.0	.0
Dec	3.4	2.8	#	0	10.0	1971	2	13.0	1971	10	1971	2	1+	2000	1.4	1.1	.5	.2	@	1.3	.5	.2	@
Ann	13.7	5.5	N/A	N/A	15.0	Jan 1987	17	27.8	Feb 1986	15	Jan 1987	17	2	Jan 1988	4.7	3.5	1.6	.8	.1	4.1	1.6	.7	@

+ 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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Lat: 35° 24N

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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	5/08	5/03	4/29	4/26	4/23	4/20	4/17	4/13	4/07
32	4/22	4/18	4/15	4/13	4/10	4/08	4/06	4/03	3/29
28	4/13	4/08	4/04	4/01	3/28	3/25	3/22	3/18	3/12
24	4/03	3/28	3/24	3/20	3/16	3/13	3/09	3/04	2/26
20	3/29	3/20	3/13	3/08	3/02	2/25	2/19	2/12	2/03
16	3/12	3/03	2/24	2/18	2/13	2/08	2/02	1/26	1/17
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	10/02	10/08	10/12	10/15	10/18	10/21	10/25	10/29	11/03
32	10/17	10/21	10/24	10/27	10/29	11/01	11/03	11/06	11/10
28	10/28	11/01	11/04	11/06	11/08	11/10	11/13	11/16	11/20
24	11/05	11/10	11/14	11/17	11/20	11/23	11/26	11/30	12/05
20	11/09	11/15	11/20	11/24	11/28	12/02	12/06	12/10	12/17
16	11/12	11/21	11/28	12/04	12/09	12/14	12/20	12/26	1/04
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	199	191	186	182	178	173	169	164	156
32	217	211	207	204	201	198	195	191	186
28	244	237	232	228	224	220	216	211	205
24	272	264	258	253	248	243	238	232	224
20	297	288	281	275	270	265	259	252	243
16	327	315	308	302	296	290	285	278	268

* 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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Elevation: 4,244 Feet Lat: 35° 24N Lon: 104° 11W

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	876	656	501	270	91	7	0	0	29	203	557	846	4036
60	721	516	349	158	36	1	0	0	6	101	416	691	2995
57	628	435	264	106	18	0	0	0	2	61	337	598	2449
55	566	383	211	77	10	0	0	0	0	41	288	537	2113
50	417	258	105	27	2	0	0	0	0	12	184	388	1393
32	47	18	0	0	0	0	0	0	0	0	10	36	111

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	194	286	522	740	1053	1303	1465	1408	1140	846	446	214	9617
55	0	7	20	128	351	613	752	695	450	174	34	1	3225
57	0	3	11	97	296	553	690	633	391	131	23	0	2828
60	0	0	3	59	222	463	597	540	306	79	11	0	2280
65	0	0	0	20	121	320	442	385	178	26	2	0	1494
70	0	0	0	5	53	192	288	235	84	4	0	0	861

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	85	168	334	539	833	1087	1238	1175	929	633	272	103	85	253	587	1126	1959	3046	4284	5459	6388	7021	7293	7396
45	31	88	203	395	679	937	1083	1020	780	482	162	42	31	119	322	717	1396	2333	3416	4436	5216	5698	5860	5902
50	2	33	110	263	524	787	928	865	631	335	82	10	2	35	145	408	932	1719	2647	3512	4143	4478	4560	4570
55	0	4	46	154	373	637	773	710	483	207	28	0	0	4	50	204	577	1214	1987	2697	3180	3387	3415	3415
60	0	0	12	73	236	490	618	555	344	102	4	0	0	0	12	85	321	811	1429	1984	2328	2430	2434	2434
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	107	160	249	351	526	695	801	773	598	405	206	109	107	267	516	867	1393	2088	2889	3662	4260	4665	4871	4980

(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