U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: YESO 2 S, NM **COOP ID: 299851**

Climate Division: NM 7 **NWS Call Sign:** **Elevation: 4,850 Feet** **Lat: 34˚24N** **Lon: 104˚37W**

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	51.9	22.5	37.2	78	1974	15	43.2	1986	-23	1963	13	29.9	1979	862	0	.0	.0	20.7	2.0	27.0	.4
Feb	57.0	25.1	41.1	81	1982	21	47.8	1999	-9	1985	1	35.7	1978	671	0	.0	.0	22.8	1.2	21.6	.2
Mar	64.9	29.9	47.4	88+	1971	26	52.4	1989	-2	1971	3	43.3	1987	546	0	.0	.0	28.8	.1	16.3	@
Apr	72.0	36.6	54.3	96	1965	23	60.4	1972	6	1973	8	46.8	1973	330	10	.0	.3	29.2	.0	7.1	.0
May	79.9	46.5	63.2	100	2000	24	72.6	1996	21+	1960	6	58.8	1975	136	81	@	4.0	31.0	.0	.7	.0
Jun	88.4	55.4	71.9	107+	1978	24	77.9	1990	32	1963	17	67.0	1979	16	222	2.6	16.0	30.0	.0	.0	.0
Jul	90.2	60.4	75.3	107	1973	7	79.8	1980	47	1964	13	71.2	1976	0	319	1.4	20.5	31.0	.0	.0	.0
Aug	87.6	59.3	73.5	102+	1969	17	77.0	1995	42	1976	29	69.0	1974	3	264	.3	14.5	31.0	.0	.0	.0
Sep	81.7	52.6	67.2	99+	1974	10	71.9	1983	29+	1999	29	61.5	1974	54	118	.0	5.1	29.9	.0	.1	.0
Oct	73.1	42.1	57.6	93+	1967	3	60.9	1979	13	1993	31	52.2	1976	242	11	.0	.4	30.4	.0	3.4	.0
Nov	61.1	31.2	46.2	84+	1963	16	52.1	1995	-8	1976	28	39.3	2000	565	0	.0	.0	25.3	.2	17.2	@
Dec	52.4	24.1	38.3	80	1995	2	45.7	1977	-9	1987	27	33.1	1983	830	0	.0	.0	20.6	1.8	25.1	.4
Ann	71.7	40.5	56.1	107+	Jun 1978	24	79.8	Jul 1980	-23	Jan 1963	13	29.9	Jan 1979	4255	1025	4.3	60.8	330.7	5.3	118.5	1.0

\+ 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/normals/usnormals.html

(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

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	.55	.51	.91	1971	3	1.50	1987	.00+	2000
Feb	.49	.34	.98	1986	5	2.21	1986	.00+	2000
Mar	.57	.47	2.26	2001	8	1.45	1994	.00+	1996
Apr	.96	.40	4.00	1999	29	6.12	1997	.00+	1996
May	1.23	.98	2.69	1965	13	3.63	1994	.00+	2000
Jun	1.57	.82	2.21	1961	15	4.21	1996	.00+	1991
Jul	1.84	1.60	2.51	1991	14	5.99	1991	.00	2000
Aug	2.64	2.30	2.85	1977	29	8.65	1972	.00	2000
Sep	1.70	1.81	2.43	1976	7	4.52	1980	.00+	2000
Oct	1.51	.86	3.70	1985	17	6.94	1985	.00+	1999
Nov	.60	.41	1.38	1984	25	2.19	1986	.00+	2000
Dec	.64	.54	.98	1959	15	2.60	1997	.00+	1999
Ann	14.30	13.32	4.00	Apr 1999	29	8.65	Aug 1972	.00+	Nov 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	2.5	1.9	.2	.0
Feb	1.9	1.4	.2	.0
Mar	2.1	1.5	.3	@
Apr	2.3	1.8	.5	.2
May	3.1	2.4	.9	.2
Jun	3.8	3.1	1.1	.3
Jul	5.3	3.8	1.2	.4
Aug	5.6	4.3	1.5	.5
Sep	4.8	3.4	1.0	.3
Oct	3.2	2.5	.9	.3
Nov	2.1	1.4	.4	.1
Dec	2.3	1.8	.4	.0
Ann	39.0	29.3	8.6	2.3

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.00	.00	.09	.19	.29	.40	.53	.69	.92	1.27	1.63
Feb	.00	.00	.00	.07	.18	.30	.44	.61	.86	1.27	1.68
Mar	.00	.00	.07	.19	.30	.42	.56	.73	.95	1.31	1.68
Apr	.00	.00	.01	.11	.25	.45	.72	1.09	1.64	2.63	3.66
May	.00	.00	.29	.53	.76	.99	1.25	1.58	2.01	2.67	3.32
Jun	.00	.00	.23	.47	.74	1.05	1.44	1.93	2.61	3.77	4.93
Jul	.18	.39	.70	.97	1.24	1.53	1.87	2.27	2.81	3.69	4.52
Aug	.22	.51	.94	1.33	1.73	2.16	2.66	3.26	4.07	5.39	6.65
Sep	.00	.16	.46	.72	1.00	1.31	1.67	2.11	2.71	3.70	4.66
Oct	.00	.00	.07	.30	.57	.90	1.31	1.85	2.59	3.87	5.19
Nov	.00	.00	.00	.09	.25	.40	.57	.78	1.05	1.51	1.94
Dec	.00	.00	.00	.18	.32	.46	.63	.82	1.09	1.54	1.96
Ann	8.25	9.33	10.75	11.87	12.89	13.89	14.94	16.12	17.58	19.75	21.66

\+ 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:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	4.4	4.0	#	0
Feb	4.6	2.6	#	#
Mar	1.3	.0	#	0
Apr	1.1	.0	#	0
May	.2	.0	#	0
Jun	.0	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.9	.0	#	0
Nov	1.7	.0	#	0
Dec	4.9	4.0	#	#
Ann	19.1	10.6	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	12.0	1987	17	12.0	1987	10	1990	19	1	1990
Feb	9.5	1996	1	21.0	1986	17	1996	2	4	1980
Mar	11.0	1999	19	11.0	1999	11	1999	19	6	1978
Apr	18.0	1997	25	18.0	1997	18	1997	25	1	1997
May	6.0	1978	2	6.0	1978	1	1978	2	#	1978
Jun	.0	0	0	.0	0	4	1992	1	#	1992
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	7.0	1979	30	7.0	1979	#	1986	12	#	1986
Nov	12.0	1982	27	12.0	1982	5	1992	21	1	1980
Dec	8.0	1987	13	21.0	1987	18	1997	23	2	1987
Ann	18.0	Apr 1997	25	21.0+	Dec 1987	18+	Dec 1997	23	6	Mar 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.4	1.3	.8	.3	@
Feb	1.3	1.3	.7	.3	.0
Mar	.6	.6	.2	.1	@
Apr	.3	.3	.3	.1	@
May	@	@	@	@	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.2	.2	.2	.1	.0
Nov	.5	.5	.2	.1	@
Dec	1.2	1.1	.9	.4	.0
Ann	5.5	5.3	3.3	1.4	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	1.6	.7	.2	.0
Feb	1.0	.6	.2	.0
Mar	.3	.1	.1	.0
Apr	.1	.1	.0	.0
May	@	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.2	.1	@	.0
Dec	.8	.6	.2	.0
Ann	4.0	2.2	.7	.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	5/20	5/16	5/13	5/10	5/08	5/05	5/02	4/29	4/25
32	5/13	5/07	5/03	4/30	4/27	4/24	4/20	4/16	4/11
28	5/01	4/26	4/22	4/18	4/15	4/12	4/09	4/05	3/31
24	4/20	4/14	4/10	4/06	4/02	3/30	3/26	3/21	3/15
20	4/10	4/03	3/29	3/25	3/21	3/16	3/12	3/07	2/28
16	4/02	3/25	3/19	3/14	3/09	3/04	2/27	2/21	2/13

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	9/24	9/28	9/30	10/03	10/05	10/07	10/09	10/12	10/16
32	10/02	10/07	10/10	10/13	10/16	10/18	10/21	10/25	10/29
28	10/16	10/21	10/25	10/28	10/31	11/04	11/07	11/11	11/16
24	10/22	10/28	11/01	11/04	11/07	11/10	11/14	11/17	11/23
20	10/28	11/03	11/07	11/11	11/14	11/17	11/21	11/25	12/01
16	11/05	11/12	11/18	11/23	11/27	12/02	12/07	12/12	12/20

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	169	163	158	154	150	146	142	137	130
32	194	186	180	176	171	167	162	156	148
28	219	212	207	202	198	194	190	184	177
24	240	232	227	222	218	214	209	204	196
20	264	255	248	243	238	233	227	221	212
16	295	284	276	269	263	256	249	241	230

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	862	671	546	330	136	16	0	3	54	242	565	830	4255
60	707	531	392	205	64	3	0	0	14	124	423	675	3138
57	614	447	302	144	36	0	0	0	5	74	341	582	2545
55	552	391	246	109	23	0	0	0	2	50	291	520	2184
50	404	261	126	44	6	0	0	0	0	14	182	370	1407
32	42	11	0	0	0	0	0	0	0	0	8	27	88

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	203	265	477	670	968	1196	1341	1284	1054	792	433	220	8903
55	0	0	10	89	278	506	628	571	366	129	25	1	2603
57	0	0	4	64	229	447	566	509	309	91	16	0	2235
60	0	0	1	35	164	359	473	416	228	49	7	0	1732
65	0	0	0	10	81	222	319	264	118	11	0	0	1025
70	0	0	0	2	30	113	176	130	46	1	0	0	498

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	86	137	297	481	770	999	1127	1058	833	563	235	101	86	223	520	1001	1771	2770	3897	4955	5788	6351	6586	6687
45	27	61	177	338	615	849	972	903	683	416	129	43	27	88	265	603	1218	2067	3039	3942	4625	5041	5170	5213
50	5	22	83	213	460	699	817	748	534	274	58	9	5	27	110	323	783	1482	2299	3047	3581	3855	3913	3922
55	0	3	25	106	312	549	662	593	388	150	16	1	0	3	28	134	446	995	1657	2250	2638	2788	2804	2805
60	0	0	3	39	178	399	507	438	247	62	0	0	0	0	3	42	220	619	1126	1564	1811	1873	1873	1873
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	101	147	259	357	502	622	730	690	537	383	197	108	101	248	507	864	1366	1988	2718	3408	3945	4328	4525	4633

(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:
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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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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 are 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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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