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: ELIDA, NM **COOP ID: 292854**

Climate Division: NM 3 **NWS Call Sign:** **Elevation: 4,354 Feet** **Lat: 33˚57N** **Lon: 103˚39W**

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	52.5	25.3	38.9	79	2000	16	44.7	1986	-19	1963	13	30.9	1979	809	0	.0	.0	20.0	2.9	26.8	.4
Feb	57.9	28.7	43.3	83+	1986	27	50.0	1976	-17	1951	1	37.8	1978	609	0	.0	.0	22.1	1.5	20.4	.2
Mar	66.2	34.2	50.2	90+	1989	11	55.4	1974	1	1948	11	46.5	1987	460	0	.0	.1	28.8	.3	14.6	.0
Apr	74.3	41.7	58.0	98+	1989	21	62.5	2000	15	1979	4	51.0	1973	237	27	.0	.7	29.2	.0	5.3	.0
May	82.6	51.5	67.1	110	2000	24	74.8	1996	27	1970	1	62.8	1973	73	136	.3	6.4	30.9	.0	.4	.0
Jun	90.4	60.1	75.3	112	1994	27	82.5	1990	34	1979	9	71.8	1992	7	314	3.8	17.1	30.0	.0	.0	.0
Jul	91.0	64.3	77.7	111	1995	26	83.8	1980	41	1972	4	73.5	1991	0	391	2.6	20.1	31.0	.0	.0	.0
Aug	88.6	63.0	75.8	105+	1980	3	78.4	2000	42	1976	29	70.3	1971	1	336	.6	17.1	31.0	.0	.0	.0
Sep	83.1	55.7	69.4	104	1983	8	74.6	1998	27	1972	22	63.3	1974	40	173	.2	8.3	29.9	.0	.2	.0
Oct	73.7	45.3	59.5	98	2000	3	66.0	1998	10+	1991	31	53.5	1976	198	28	.0	.9	30.1	@	3.0	.0
Nov	61.5	33.2	47.4	85	1980	9	53.3	1999	2+	1957	23	38.6	1972	532	2	.0	.0	25.3	.3	16.2	.0
Dec	53.4	26.1	39.8	77+	1958	5	45.6	1980	-11	1978	9	33.2	1983	783	0	.0	.0	20.8	2.1	25.5	.4
Ann	72.9	44.1	58.5	112	Jun 1994	27	83.8	Jul 1980	-19	Jan 1963	13	30.9	Jan 1979	3749	1407	7.5	70.7	329.1	7.1	112.4	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

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: ELIDA, NM

COOP ID: 292854

Climate Division: NM 3 **NWS Call Sign:** **Elevation: 4,354 Feet** **Lat: 33°57N** **Lon: 103°39W**

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	.51	.40	.98	1992	7	2.28	1992	.00+	2000
Feb	.37	.20	.90	1948	5	1.68	1987	.00+	2000
Mar	.43	.17	1.80	1985	21	2.00	1985	.00+	1997
Apr	.72	.21	1.53	1985	28	3.92	1997	.00+	1996
May	1.43	1.09	2.32	1992	22	5.92	1988	.00+	2000
Jun	2.26	1.85	2.31	1999	13	5.90	1986	.00+	1990
Jul	3.06	2.67	2.84	1993	15	11.05	1991	.46	1980
Aug	2.49	2.30	5.30	1993	4	6.99	1993	.00	1983
Sep	2.14	2.16	3.64	1951	8	6.31	1980	.00+	2000
Oct	1.37	.70	3.10	1960	17	5.52	1983	.00+	1989
Nov	.75	.64	1.57	1978	4	2.43	1986	.00+	1999
Dec	.54	.28	.91	1982	11	2.05	1991	.00+	1996
Ann	16.07	15.80	5.30	Aug 1993	4	11.05	Jul 1991	.00+	Sep 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	2.6	1.5	.2	.0
Feb	2.0	1.2	.1	.0
Mar	1.8	1.1	.2	.1
Apr	2.6	1.5	.5	.1
May	4.3	2.8	1.0	.3
Jun	4.5	3.7	1.5	.7
Jul	6.2	4.5	2.0	1.0
Aug	5.6	4.4	2.0	.7
Sep	4.9	3.6	1.4	.5
Oct	3.7	2.6	.9	.4
Nov	2.5	1.6	.4	.1
Dec	2.3	1.2	.3	.0
Ann	43.0	29.7	10.5	3.9

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	.04	.14	.24	.35	.48	.64	.86	1.22	1.60
Feb	.00	.00	.02	.08	.15	.23	.33	.46	.64	.95	1.26
Mar	.00	.00	.04	.09	.16	.25	.36	.51	.73	1.10	1.49
Apr	.00	.00	.00	.08	.19	.35	.56	.84	1.24	1.97	2.71
May	.00	.00	.24	.47	.71	1.00	1.34	1.77	2.35	3.35	4.33
Jun	.00	.00	.56	.95	1.34	1.77	2.26	2.86	3.64	4.95	6.22
Jul	.51	.78	1.22	1.64	2.07	2.54	3.08	3.73	4.60	6.01	7.36
Aug	.13	.35	.73	1.10	1.49	1.92	2.43	3.07	3.93	5.35	6.74
Sep	.00	.29	.70	1.05	1.39	1.76	2.18	2.68	3.35	4.45	5.50
Oct	.00	.04	.20	.39	.61	.88	1.22	1.65	2.27	3.34	4.42
Nov	.00	.00	.16	.29	.42	.57	.74	.95	1.23	1.70	2.15
Dec	.00	.00	.00	.07	.16	.28	.43	.64	.93	1.45	1.97
Ann	8.93	10.18	11.85	13.17	14.38	15.57	16.82	18.23	19.98	22.59	24.90

\+ 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

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

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: ELIDA, NM **COOP ID: 292854**

Climate Division: NM 3 **NWS Call Sign:** **Elevation: 4,354 Feet** **Lat: 33°57N** **Lon: 103°39W**

Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	2.5	1.0	#	#
Feb	1.8	.0	#	0
Mar	.8	.0	#	0
Apr	.4	.0	#	0
May	.0	.0	#	0
Jun	.0	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.5	.0	#	0
Nov	1.7	.0	#	0
Dec	2.9	.1	#	0
Ann	10.6	1.1	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	6.0	1984	18	11.0	1999	8	1999	30	1+	1999
Feb	6.0	1973	23	11.0	1997	5	1987	20	1	1997
Mar	4.0	1973	10	7.5	1975	2+	1999	18	#+	1999
Apr	4.0	1997	25	4.0	1997	3	1983	5	#+	1997
May	.0	0	0	.0	0	#	1999	26	#	1999
Jun	.0	0	0	.0	0	2	1992	1	#+	1999
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	5.5	1976	28	5.5	1976	6	1976	28	#+	1999
Nov	7.0	1976	13	12.5	1982	7	1976	13	1	1976
Dec	7.0	1987	14	22.5	1987	11	1987	26	3	1987
Ann	7.0+	Dec 1987	14	22.5	Dec 1987	11	Dec 1987	26	3	Dec 1987

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.3	1.1	.5	.1	.0
Feb	.6	.5	.3	.1	.0
Mar	.5	.3	.1	.0	.0
Apr	.1	.1	.1	.0	.0
May	.0	.0	.0	.0	.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	.1	.1	.1	@	.0
Nov	.5	.4	.3	.2	.0
Dec	.9	.7	.4	.2	.0
Ann	4.0	3.2	1.8	.6	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	1.8	1.0	.4	.0
Feb	.4	.2	.1	.0
Mar	.3	.0	.0	.0
Apr	.2	.1	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.2	.1	.1	.0
Nov	.6	.2	.1	.0
Dec	1.8	1.1	.7	.3
Ann	5.3	2.7	1.4	.3

+ 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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: ELIDA, NM **COOP ID: 292854**

Climate Division: NM 3 **NWS Call Sign:** **Elevation: 4,354 Feet** **Lat: 33˚57N** **Lon: 103˚39W**

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	5/18	5/14	5/10	5/07	5/04	5/02	4/29	4/25	4/21
32	5/09	5/04	4/30	4/27	4/24	4/21	4/17	4/14	4/08
28	4/24	4/19	4/16	4/12	4/09	4/06	4/03	3/31	3/26
24	4/17	4/10	4/06	4/02	3/29	3/25	3/21	3/16	3/10
20	4/08	3/31	3/26	3/21	3/17	3/13	3/08	3/03	2/24
16	3/28	3/19	3/13	3/08	3/03	2/26	2/21	2/15	2/06

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	9/19	9/25	9/29	10/03	10/06	10/10	10/13	10/18	10/24
32	9/30	10/07	10/11	10/15	10/19	10/22	10/26	10/31	11/06
28	10/13	10/19	10/23	10/27	10/30	11/03	11/06	11/10	11/16
24	10/25	10/31	11/04	11/07	11/11	11/14	11/17	11/21	11/27
20	10/31	11/06	11/10	11/14	11/18	11/22	11/25	11/30	12/06
16	11/01	11/12	11/19	11/25	12/01	12/07	12/13	12/21	12/31

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	169	164	159	154	150	145	139	132
32	200	192	187	182	177	173	168	162	154
28	225	218	212	207	203	199	194	188	180
24	253	243	237	231	226	221	215	208	199
20	273	263	256	251	245	240	234	227	218
16	303	291	283	276	270	264	258	250	240

***** 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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: ELIDA, NM **COOP ID: 292854**

Climate Division: NM 3 **NWS Call Sign:** **Elevation: 4,354 Feet** **Lat: 33˚57N** **Lon: 103˚39W**

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	809	609	460	237	73	7	0	1	40	198	532	783	3749
60	654	469	308	134	26	0	0	0	11	98	391	628	2719
57	561	386	225	86	12	0	0	0	4	57	312	535	2178
55	500	335	175	61	7	0	0	0	2	38	264	474	1856
50	356	211	77	20	1	0	0	0	0	11	161	328	1165
32	29	8	0	0	0	0	0	0	0	0	6	17	60

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	243	323	564	780	1085	1297	1414	1358	1123	853	466	257	9763
55	1	6	25	151	379	607	701	645	435	178	33	1	3162
57	0	2	14	116	322	547	639	583	377	135	22	0	2757
60	0	0	4	74	244	457	546	490	294	82	11	0	2202
65	0	0	0	27	136	314	391	336	173	28	2	0	1407
70	0	0	0	7	61	186	244	192	85	5	0	0	780

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	94	163	325	533	829	1051	1163	1104	879	595	250	104	94	257	582	1115	1944	2995	4158	5262	6141	6736	6986	7090
45	35	88	201	391	674	901	1008	949	731	448	149	42	35	123	324	715	1389	2290	3298	4247	4978	5426	5575	5617
50	4	36	102	262	519	751	853	794	581	307	72	10	4	40	142	404	923	1674	2527	3321	3902	4209	4281	4291
55	0	7	38	150	373	601	698	639	434	182	25	0	0	7	45	195	568	1169	1867	2506	2940	3122	3147	3147
60	0	0	6	71	232	451	543	484	295	86	1	0	0	0	6	77	309	760	1303	1787	2082	2168	2169	2169
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	106	158	267	374	531	664	754	726	567	392	201	113	106	264	531	905	1436	2100	2854	3580	4147	4539	4740	4853

(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.
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