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: CLOVIS 13 N, NM **COOP ID: 291963**

Climate Division: NM 3 **NWS Call Sign:** **Elevation: 4,435 Feet** **Lat: 34˚36N** **Lon: 103˚13W**

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	52.7	21.8	37.3	79+	1974	17	44.5	1986	-14	1963	13	30.9	1979	860	0	.0	.0	20.8	2.4	27.1	.3
Feb	58.1	25.1	41.6	85	1968	20	50.6	2000	-17	1951	1	34.0	1978	655	0	.0	.0	22.3	1.3	21.6	.3
Mar	65.9	30.5	48.2	87+	1971	25	53.4	1972	4+	1960	3	44.0	1987	521	0	.0	.0	29.0	.2	16.3	.0
Apr	73.5	38.0	55.8	94+	1965	22	59.9	1978	13	1973	8	49.1	1973	292	14	.0	.5	29.3	.0	6.2	.0
May	81.4	48.1	64.8	102	1996	19	72.3	1996	25+	1954	3	60.2	1976	114	106	.2	5.5	31.0	.0	.3	.0
Jun	90.0	57.2	73.6	108	1998	28	80.0	1990	40+	1964	1	68.3	1979	14	271	2.8	16.9	30.0	.0	.0	.0
Jul	91.4	61.5	76.5	106+	1958	13	79.3	1998	48	1991	26	72.9	1975	0	356	1.5	20.6	31.0	.0	.0	.0
Aug	88.8	60.5	74.7	102	1969	17	78.0	2000	46	1976	2	71.1	1971	1	300	.2	16.3	31.0	.0	.0	.0
Sep	83.4	53.6	68.5	102	1983	4	74.5	1998	28	1983	21	62.7	1974	41	145	.1	7.3	29.8	.0	.1	.0
Oct	74.3	42.5	58.4	93+	1979	7	62.5	1998	11	1991	31	52.5	1976	220	15	.0	.5	30.2	@	2.9	.0
Nov	61.2	30.9	46.1	85	1980	8	51.9	1999	0+	1952	26	38.5	1972	568	0	.0	.0	25.4	.4	15.9	.1
Dec	53.1	23.3	38.2	78	1995	2	43.9	1980	-8+	1961	12	29.3	1983	832	0	.0	.0	20.4	1.9	25.9	.5
Ann	72.8	41.1	57.0	108	Jun 1998	28	80.0	Jun 1990	-17	Feb 1951	1	29.3	Dec 1983	4118	1207	4.8	67.6	330.2	6.2	116.3	1.2

\+ 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: 1949-2001

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

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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	.33	.26	1.48	1999	29	1.48	1999	.00+	1998
Feb	.33	.17	.80	1956	4	1.29	1987	.00+	1999
Mar	.65	.38	2.05	2001	8	2.81	2000	.00+	1997
Apr	.98	.79	2.07	1997	24	4.99	1997	.00+	1996
May	2.25	2.27	2.68	1969	6	10.60	1988	.00	1998
Jun	2.38	2.08	3.16	2000	27	6.86	1988	.00	1990
Jul	2.61	2.23	6.15	1991	15	7.80	1991	.10	1980
Aug	3.18	2.54	3.05	1981	8	10.27	1981	.00	2000
Sep	2.05	2.06	3.00	1970	16	5.00	1985	.00	2000
Oct	1.81	1.09	3.60	1998	30	8.87	1998	.00+	1988
Nov	.61	.35	1.85	1971	16	2.53	1986	.00	1989
Dec	.51	.32	1.41	1991	21	2.78	1991	.00+	1996
Ann	17.69	17.07	6.15	Jul 1991	15	10.60	May 1988	.00+	Sep 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	2.4	1.0	.1	.1
Feb	2.4	1.2	.1	.0
Mar	2.9	1.6	.3	.1
Apr	3.3	2.1	.6	.2
May	5.1	3.6	1.6	.6
Jun	5.6	4.2	1.5	.6
Jul	6.3	4.8	1.8	.6
Aug	7.4	5.0	2.1	.9
Sep	5.3	3.7	1.4	.5
Oct	4.0	2.7	1.1	.5
Nov	2.8	1.5	.3	.1
Dec	2.6	1.4	.3	.1
Ann	50.1	32.8	11.2	4.3

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	.05	.10	.16	.22	.30	.41	.55	.79	1.03
Feb	.00	.00	.03	.07	.12	.19	.27	.39	.56	.86	1.17
Mar	.00	.00	.07	.16	.26	.40	.56	.78	1.10	1.64	2.20
Apr	.00	.00	.16	.34	.53	.73	.95	1.24	1.63	2.26	2.88
May	.06	.22	.52	.84	1.20	1.61	2.11	2.75	3.63	5.12	6.60
Jun	.15	.39	.77	1.12	1.48	1.89	2.36	2.94	3.72	5.00	6.24
Jul	.31	.52	.88	1.25	1.63	2.06	2.56	3.18	4.02	5.41	6.75
Aug	.30	.66	1.18	1.65	2.12	2.64	3.22	3.93	4.88	6.41	7.87
Sep	.26	.52	.87	1.16	1.45	1.76	2.11	2.53	3.08	3.96	4.79
Oct	.00	.05	.24	.48	.77	1.13	1.58	2.16	3.00	4.46	5.94
Nov	.01	.03	.10	.18	.27	.39	.54	.73	1.01	1.49	1.98
Dec	.00	.02	.09	.16	.25	.35	.47	.62	.84	1.22	1.60
Ann	9.88	11.26	13.10	14.54	15.86	17.16	18.53	20.08	21.99	24.84	27.36

\+ 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: 1949-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	1.0	.0	#	0	5.0	1990	18	5.0	1990	5	1997	7	1	1997	.5	.3	.2	.1	.0	.1	.0	.0	.0
Feb	.4	.0	#	0	3.0	1972	11	3.0	1972	4	1996	3	3	1996	.5	.1	.1	.0	.0	.1	.1	.0	.0
Mar	.6	.0	#	0	4.5	1999	18	4.5	1999	5	1999	18	#+	1999	.2	.2	.1	.0	.0	@	@	@	.0
Apr	.5	.0	#	0	4.5	1988	1	5.0	1997	3	1997	25	#+	1997	.2	.1	.1	.0	.0	.1	@	.0	.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	.4	.0	#	0	3.0	1991	30	3.0	1991	2	1999	16	#+	1999	.2	.1	.1	.0	.0	.1	.0	.0	.0
Nov	.6	.0	#	0	4.0	2000	7	4.0+	2000	1	1997	14	#	1997	.3	.3	.1	.0	.0	.0	.0	.0	.0
Dec	1.7	.4	#	0	11.5	2000	25	11.5	2000	13	1987	13	4	1971	.7	.5	.3	.2	.1	.2	.1	.1	.1
Ann	5.2	.4	N/A	N/A	11.5	Dec 2000	25	11.5	Dec 2000	13	Dec 1987	13	4	Dec 1971	2.6	1.6	1.0	.3	.1	.6	.2	.1	.1

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	5/15	5/11	5/08	5/05	5/02	4/30	4/27	4/24	4/20
32	5/08	5/03	4/29	4/26	4/23	4/19	4/16	4/12	4/07
28	4/23	4/18	4/14	4/10	4/07	4/04	4/01	3/28	3/22
24	4/16	4/09	4/04	3/31	3/27	3/23	3/19	3/14	3/07
20	4/09	4/01	3/26	3/21	3/16	3/12	3/07	3/01	2/20
16	3/31	3/20	3/12	3/06	2/27	2/21	2/14	2/06	1/26

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	9/22	9/28	10/02	10/05	10/09	10/12	10/15	10/19	10/25
32	10/05	10/10	10/14	10/17	10/19	10/22	10/25	10/29	11/02
28	10/10	10/17	10/22	10/26	10/30	11/03	11/07	11/12	11/19
24	10/24	10/30	11/04	11/07	11/11	11/14	11/18	11/22	11/28
20	11/04	11/10	11/14	11/18	11/21	11/25	11/28	12/02	12/08
16	11/09	11/17	11/23	11/28	12/02	12/07	12/12	12/18	12/26

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	181	174	168	163	159	154	149	143	136
32	200	193	188	183	179	175	171	166	159
28	232	223	216	210	205	200	194	187	178
24	256	247	240	234	228	222	216	209	200
20	279	269	261	255	249	243	237	230	219
16	316	303	293	285	277	270	261	252	238

***** 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	860	655	521	292	114	14	0	1	41	220	568	832	4118
60	705	515	368	174	50	3	0	0	10	108	423	677	3033
57	612	436	282	118	27	0	0	0	3	63	341	584	2466
55	552	383	228	87	17	0	0	0	1	41	290	523	2122
50	408	259	117	32	4	0	0	0	0	11	179	375	1385
32	56	20	1	0	0	0	0	0	0	0	7	31	115

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	219	289	503	712	1015	1247	1379	1322	1094	818	429	222	9249
55	2	8	17	109	319	557	666	609	405	147	22	1	2862
57	0	5	9	80	267	498	604	547	347	106	13	0	2476
60	0	0	2	46	198	410	511	454	264	59	6	0	1950
65	0	0	0	14	106	271	356	300	145	15	0	0	1207
70	0	0	0	3	45	154	207	155	62	2	0	0	628

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	158	298	497	782	1019	1136	1079	862	590	239	96	85	243	541	1038	1820	2839	3975	5054	5916	6506	6745	6841
45	28	75	176	354	627	869	981	924	714	438	138	40	28	103	279	633	1260	2129	3110	4034	4748	5186	5324	5364
50	5	25	82	226	473	719	826	769	565	297	62	8	5	30	112	338	811	1530	2356	3125	3690	3987	4049	4057
55	0	2	25	117	325	569	671	614	419	167	17	0	0	2	27	144	469	1038	1709	2323	2742	2909	2926	2926
60	0	0	1	41	191	419	516	459	277	69	0	0	0	0	1	42	233	652	1168	1627	1904	1973	1973	1973
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	102	161	260	366	503	642	736	706	557	394	192	105	102	263	523	889	1392	2034	2770	3476	4033	4427	4619	4724

(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