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: CLINES CORNERS 7 SE, NM **COOP ID: 291918**

Climate Division: NM 6 **NWS Call Sign:** **Elevation: 6,924 Feet** **Lat: 34˚56N** **Lon: 105˚35W**

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	42.6	18.1	30.4	68	1971	31	37.3	1986	-29	1971	6	22.0	1979	1075	0	.0	.0	8.4	4.0	29.3	1.0
Feb	47.4	20.5	34.0	70	1986	25	40.6	1995	-10+	1974	8	27.6	1978	870	0	.0	.0	14.0	2.2	25.9	.5
Mar	53.6	24.5	39.1	77+	1989	10	44.4	1997	-6	1971	3	34.7	1973	805	0	.0	.0	23.0	.3	26.0	@
Apr	61.3	29.8	45.6	82	1989	21	50.8	1989	7	1973	8	38.9	1973	583	0	.0	.0	27.4	.2	16.7	.0
May	71.4	39.6	55.5	90	2000	24	63.0	1996	21	1971	19	50.8	1983	305	11	.0	.2	30.9	.0	4.4	.0
Jun	81.4	48.5	65.0	100+	1990	5	72.1	1990	29	1975	11	60.6	1979	75	73	.1	4.0	30.0	.0	.1	.0
Jul	83.4	53.9	68.7	96	1994	1	72.2	1980	42+	1982	2	66.0	1991	10	123	.0	4.0	31.0	.0	.0	.0
Aug	80.8	53.1	67.0	93	1986	20	70.3	1995	40+	1976	29	64.2	1976	30	90	.0	1.6	31.0	.0	.0	.0
Sep	74.8	45.6	60.2	90	1997	1	64.4	1998	22+	1970	26	57.0	1974	160	16	.0	.1	29.9	.0	.7	.0
Oct	65.3	35.3	50.3	82+	1979	7	54.3	1990	0	1991	31	45.2	1984	456	0	.0	.0	29.4	.1	9.1	.0
Nov	52.2	24.6	38.4	72	1973	11	44.9	1995	-18	1976	28	31.7	1972	798	0	.0	.0	19.4	.9	23.8	.1
Dec	44.0	18.6	31.3	68+	1980	27	39.1	1980	-12	1982	29	24.8	1978	1044	0	.0	.0	9.9	3.2	29.0	.7
Ann	63.2	34.3	48.8	100+	Jun 1990	5	72.2	Jul 1980	-29	Jan 1971	6	22.0	Jan 1979	6211	313	.1	9.9	284.3	10.9	165.0	2.3

\+ 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: 1968-2001

(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	.95	.92	.88	1973	2	2.10	1973	.00	2000
Feb	.81	.83	1.05	1988	3	2.37	1987	.01	2000
Mar	.99	.98	.72	1991	30	2.60	1994	.00+	1996
Apr	1.03	.98	2.71	1985	28	3.83	1985	.00+	1996
May	1.62	1.59	1.81	1984	16	5.68	1992	.00+	1998
Jun	1.64	1.49	2.47	1981	30	5.62	1979	.00	1998
Jul	2.77	2.63	2.66	1971	20	5.66	1991	.30	1993
Aug	3.14	2.97	2.64	1980	14	8.00	1987	1.01	1973
Sep	2.22	2.27	3.30	1997	22	6.40	1997	.20	1993
Oct	1.45	.86	1.60	1969	22	4.55	1974	.03	1975
Nov	1.09	1.06	1.04	1986	23	3.13	1978	.00+	1999
Dec	.96	.76	.84	1987	13	3.72	1991	.00+	1996
Ann	18.67	18.48	3.30	Sep 1997	22	8.00	Aug 1987	.00+	Jan 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	4.8	3.3	.3	.0
Feb	4.2	2.4	.4	@
Mar	5.3	3.7	.3	.0
Apr	3.7	2.8	.4	.1
May	4.8	3.7	1.2	.3
Jun	4.7	3.6	.8	.3
Jul	7.7	6.2	1.5	.3
Aug	9.5	7.6	1.9	.7
Sep	6.0	4.6	1.5	.5
Oct	4.5	3.4	1.0	.2
Nov	3.9	2.9	.7	.1
Dec	4.5	3.0	.7	.0
Ann	63.6	47.2	10.7	2.5

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	.04	.11	.25	.39	.54	.71	.91	1.17	1.52	2.11	2.68
Feb	.03	.07	.15	.26	.38	.53	.72	.96	1.31	1.91	2.51
Mar	.00	.17	.37	.53	.68	.84	1.03	1.23	1.52	1.97	2.40
Apr	.00	.00	.23	.41	.59	.79	1.01	1.30	1.67	2.30	2.91
May	.00	.07	.29	.53	.80	1.11	1.50	1.98	2.67	3.83	4.99
Jun	.02	.10	.28	.49	.75	1.07	1.45	1.96	2.69	3.94	5.21
Jul	.69	.95	1.35	1.71	2.06	2.44	2.85	3.34	3.99	5.01	5.96
Aug	1.03	1.33	1.77	2.14	2.50	2.87	3.28	3.75	4.36	5.31	6.19
Sep	.43	.63	.96	1.26	1.56	1.88	2.25	2.70	3.29	4.23	5.13
Oct	.07	.15	.32	.51	.74	1.00	1.33	1.74	2.33	3.34	4.35
Nov	.00	.11	.30	.48	.65	.85	1.08	1.36	1.74	2.36	2.97
Dec	.00	.09	.26	.41	.57	.74	.95	1.19	1.53	2.08	2.62
Ann	11.75	13.03	14.69	15.98	17.14	18.28	19.46	20.78	22.40	24.78	26.87

\+ 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: 1968-2001
(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	8.1	8.3	2	1	9.2	1990	18	19.1	1987	20	1992	19	11	1992	3.2	2.7	.9	.3	.0	8.0	5.3	3.3	1.0
Feb	6.6	4.2	1	#	10.2	1987	19	26.8	1990	17	1987	21	5	1983	2.9	1.9	.9	.4	@	3.4	2.0	1.2	.4
Mar	5.3	3.2	#	#	8.1	1991	30	20.8	1973	9	2000	23	1+	2000	2.2	1.6	.9	.2	.0	1.7	.7	.3	.0
Apr	3.4	.0	#	0	16.2	1973	2	17.9	1973	16	1973	2	2	1973	1.1	.8	.4	.2	.1	.9	.6	.4	.1
May	.7	.0	#	0	12.5	1978	2	12.5	1978	2	1990	2	#+	1997	.2	.2	.1	@	@	@	.0	.0	.0
Jun	.0	.0	#	0	.0	0	0	.0	0	#	1989	13	#	1989	.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	#	1971	23	#	1971	1	1987	29	#	1987	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	2.3	.0	#	0	10.0	1996	27	14.7	1984	8	1979	30	#+	1997	.6	.6	.3	.2	@	.5	.2	.1	.0
Nov	4.7	2.8	#	#	12.2	1986	23	15.5	1992	12	1986	23	2	1980	2.2	1.8	.7	.2	@	2.4	1.4	.6	.0
Dec	9.9	7.7	2	1	14.0	1990	21	30.4	1991	19	1990	24	7	1997	3.3	2.8	1.3	.7	.1	6.9	4.4	2.9	1.1
Ann	41.0	26.2	N/A	N/A	16.2	Apr 1973	2	30.4	Dec 1991	20	Jan 1992	19	11	Jan 1992	15.7	12.4	5.5	2.2	.2	23.8	14.6	8.8	2.6

+ 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	6/13	6/07	6/03	5/31	5/28	5/25	5/21	5/18	5/12
32	5/31	5/26	5/22	5/19	5/16	5/13	5/10	5/07	5/01
28	5/21	5/15	5/11	5/08	5/04	5/01	4/28	4/23	4/18
24	5/08	5/01	4/26	4/22	4/18	4/15	4/10	4/06	3/30
20	4/24	4/18	4/14	4/11	4/07	4/04	4/01	3/28	3/22
16	4/17	4/11	4/06	4/03	3/30	3/27	3/23	3/19	3/13

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	9/19	9/22	9/24	9/26	9/27	9/29	10/01	10/03	10/06
32	9/22	9/26	9/29	10/02	10/04	10/06	10/09	10/12	10/16
28	10/02	10/06	10/09	10/12	10/14	10/16	10/19	10/22	10/26
24	10/05	10/12	10/16	10/20	10/23	10/27	10/31	11/04	11/10
20	10/20	10/26	10/31	11/04	11/07	11/11	11/14	11/19	11/25
16	10/27	11/03	11/08	11/12	11/16	11/20	11/24	11/29	12/06

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	140	133	129	125	122	118	114	110	103
32	160	153	148	144	140	136	132	127	120
28	184	176	171	166	162	157	153	147	140
24	216	206	199	193	187	181	175	168	158
20	240	231	224	218	213	208	202	195	186
16	259	249	242	235	230	224	218	210	200

***** 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	1075	870	805	583	305	75	10	30	160	456	798	1044	6211
60	920	730	650	435	181	23	0	3	62	304	648	889	4845
57	827	646	557	349	121	9	0	0	28	220	558	796	4111
55	765	590	495	295	89	4	0	0	14	171	500	734	3657
50	610	450	343	174	34	0	0	0	1	76	359	579	2626
32	141	69	16	2	0	0	0	0	0	0	40	115	383

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	89	123	234	409	728	988	1136	1082	846	567	232	93	6527
55	0	0	0	12	104	302	423	369	170	25	2	0	1407
57	0	0	0	6	75	247	361	308	124	12	0	0	1133
60	0	0	0	2	41	171	268	218	68	3	0	0	771
65	0	0	0	0	11	73	123	90	16	0	0	0	313
70	0	0	0	0	1	19	29	18	1	0	0	0	68

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	16	39	109	248	519	766	907	854	628	352	96	18	16	55	164	412	931	1697	2604	3458	4086	4438	4534	4552
45	0	9	42	133	367	616	752	699	482	217	34	0	0	9	51	184	551	1167	1919	2618	3100	3317	3351	3351
50	0	0	9	51	222	466	597	544	334	102	2	0	0	0	9	60	282	748	1345	1889	2223	2325	2327	2327
55	0	0	0	11	105	318	442	389	198	30	0	0	0	0	0	11	116	434	876	1265	1463	1493	1493	1493
60	0	0	0	0	34	180	287	234	81	3	0	0	0	0	0	0	34	214	501	735	816	819	819	819
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	25	52	118	218	361	494	578	545	395	253	91	24	25	77	195	413	774	1268	1846	2391	2786	3039	3130	3154

(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