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: ARTESIA 6 S, NM **COOP ID: 290600**

Climate Division: NM 7 **NWS Call Sign:** **Elevation: 3,320 Feet** **Lat: 32˚46N** **Lon: 104˚23W**

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	56.4	21.3	38.9	85	1970	25	45.2	1999	-20	1962	11	33.7	1979	810	0	.0	.0	22.2	1.4	28.5	.5
Feb	62.4	25.4	43.9	86+	1962	12	50.7	1995	-9	1951	1	39.4	1973	592	0	.0	.0	23.7	1.0	23.0	.0
Mar	70.0	32.0	51.0	93	1971	28	55.4	1974	9	1971	3	46.8	1987	435	0	.0	.3	29.8	.1	15.2	.0
Apr	77.7	40.2	59.0	100+	1965	23	63.3	1986	16	1983	8	53.5	1983	209	27	@	2.3	29.5	.0	5.1	.0
May	85.8	51.0	68.4	106+	1989	24	76.4	1996	26	1967	2	64.0	1976	52	156	1.0	10.7	31.0	.0	@	.0
Jun	93.3	59.8	76.6	113	1994	28	82.1	1990	42	1970	2	72.2	1979	2	349	6.3	21.9	30.0	.0	.0	.0
Jul	93.8	63.7	78.8	111	1958	15	82.6	1998	53+	1952	8	74.7	1975	0	427	4.2	25.1	31.0	.0	.0	.0
Aug	91.8	61.9	76.9	107	1966	2	80.0	1994	48	1968	23	73.4	1971	1	368	1.5	22.2	31.0	.0	.0	.0
Sep	85.4	54.1	69.8	106	1948	5	75.5	1998	32	1968	28	64.0	1974	32	173	.3	11.1	29.9	.0	.0	.0
Oct	76.9	41.6	59.3	99	1956	15	62.5	1998	18+	1991	31	52.6	1976	193	15	.0	2.3	30.4	.0	3.2	.0
Nov	65.3	29.6	47.5	89+	1950	9	52.1	1999	-10+	1976	29	40.1	1976	528	0	.0	.0	27.0	.3	18.8	.1
Dec	57.1	21.7	39.4	85	1958	5	43.9+	1994	-13	1987	15	34.0+	1997	794	0	.0	.0	22.9	1.4	27.9	.4
Ann	76.3	41.9	59.1	113	Jun 1994	28	82.6	Jul 1998	-20	Jan 1962	11	33.7	Jan 1979	3648	1515	13.3	95.9	338.4	4.2	121.7	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	.40	.31	.90	1968	21	1.30	1991	.00	1998
Feb	.44	.20	1.20	1948	5	2.22	1973	.00+	2000
Mar	.28	.18	1.07	1958	6	1.13	1973	.00+	1980
Apr	.52	.21	2.32	1985	28	2.51	1985	.00+	1989
May	1.23	1.00	2.11	1999	29	4.36	1999	.00+	2000
Jun	1.87	1.40	3.75	1948	2	9.77	1978	.00	1990
Jul	1.38	1.17	1.95	1951	12	3.26	1991	.18	1983
Aug	2.19	1.86	4.32	1966	23	6.30	1991	.24	1985
Sep	2.51	1.91	3.12	1980	10	9.06	1980	.00	2000
Oct	1.30	.79	3.75	1974	23	7.02	1974	.00+	1989
Nov	.69	.47	1.61	2000	7	3.57	2000	.00+	1999
Dec	.56	.25	.99	1997	23	3.00	1991	.00+	1996
Ann	13.37	12.65	4.32	Aug 1966	23	9.77	Jun 1978	.00+	Sep 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	3.4	1.4	.1	.0
Feb	2.8	1.5	.3	.0
Mar	2.5	.9	.1	.0
Apr	2.6	1.1	.3	.1
May	4.3	2.7	.8	.2
Jun	4.9	3.0	1.4	.4
Jul	6.0	3.3	.9	.1
Aug	7.6	4.5	1.3	.3
Sep	6.9	4.2	1.5	.6
Oct	5.6	2.9	.7	.1
Nov	3.1	1.6	.4	.1
Dec	3.2	1.7	.3	.0
Ann	52.9	28.8	8.1	1.9

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	.01	.04	.09	.15	.21	.29	.38	.49	.65	.92	1.18
Feb	.00	.00	.01	.06	.13	.23	.35	.51	.75	1.16	1.59
Mar	.00	.01	.05	.09	.14	.19	.26	.35	.47	.68	.89
Apr	.00	.00	.03	.09	.17	.28	.41	.60	.87	1.35	1.85
May	.00	.00	.28	.49	.71	.94	1.22	1.55	2.00	2.74	3.46
Jun	.06	.21	.47	.74	1.04	1.38	1.78	2.29	3.00	4.18	5.35
Jul	.23	.35	.55	.74	.93	1.15	1.39	1.69	2.08	2.73	3.34
Aug	.36	.55	.87	1.17	1.48	1.82	2.20	2.67	3.30	4.32	5.30
Sep	.11	.31	.68	1.05	1.44	1.89	2.42	3.08	3.99	5.49	6.97
Oct	.00	.04	.18	.36	.57	.82	1.14	1.55	2.15	3.18	4.21
Nov	.00	.00	.05	.14	.26	.41	.59	.82	1.16	1.75	2.34
Dec	.00	.00	.03	.09	.17	.28	.43	.63	.94	1.49	2.06
Ann	6.77	7.89	9.40	10.61	11.72	12.83	14.00	15.34	17.00	19.51	21.74

\+ 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	2.1	1.5	#	#
Feb	1.5	.0	#	#
Mar	.5	.0	#	0
Apr	.6	.0	#	0
May	.0	.0	0	0
Jun	.0	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.1	.0	#	0
Nov	1.1	.0	#	0
Dec	1.8	.1	#	#
Ann	7.7	1.6	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	8.5	1983	1	9.5	1983	9	1983	1	2	1983
Feb	5.5	1986	10	7.5	1979	6	1988	6	3	1979
Mar	3.5	1977	6	4.0	1977	4	1977	6	#+	2000
Apr	7.0	1983	6	15.5	1983	7	1983	6	1	1983
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	#	2000	5	#	2000
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	1.5	1991	31	1.5	1991	2	1991	31	#+	1999
Nov	5.5	1976	13	9.5	1976	4	1982	27	#+	2000
Dec	9.0	1987	14	11.8	1987	9	1987	16	2	1997
Ann	9.0	Dec 1987	14	15.5	Apr 1983	9+	Dec 1987	16	3	Feb 1979

Mean Number of Days (1)

Snow Fall >= Thresholds

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

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	1.5	.5	.2	.0
Feb	.7	.2	.1	.0
Mar	.3	@	.0	.0
Apr	.2	.1	@	.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	@	.0	.0	.0
Nov	.5	.2	.0	.0
Dec	1.3	.7	.4	.0
Ann	4.5	1.7	.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	5/10	5/06	5/03	5/01	4/29	4/26	4/24	4/21	4/17
32	4/28	4/24	4/21	4/19	4/17	4/14	4/12	4/09	4/05
28	4/16	4/11	4/08	4/05	4/02	3/31	3/28	3/24	3/20
24	4/05	3/30	3/27	3/23	3/20	3/17	3/14	3/10	3/04
20	3/30	3/22	3/16	3/11	3/06	3/02	2/25	2/19	2/11
16	3/17	3/09	3/02	2/25	2/20	2/15	2/09	2/03	1/25

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	9/29	10/04	10/08	10/11	10/14	10/17	10/20	10/24	10/29
32	10/09	10/14	10/18	10/21	10/23	10/26	10/29	11/02	11/06
28	10/20	10/25	10/28	10/31	11/03	11/06	11/09	11/12	11/17
24	10/28	11/02	11/06	11/10	11/13	11/16	11/19	11/23	11/29
20	11/05	11/11	11/15	11/18	11/21	11/24	11/28	12/02	12/07
16	11/14	11/21	11/26	11/30	12/04	12/08	12/12	12/17	12/24

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	188	181	176	172	168	164	160	155	148
32	206	200	196	192	189	186	182	178	172
28	232	226	221	217	214	211	207	202	196
24	261	253	247	242	237	232	227	221	213
20	291	280	272	265	259	253	246	238	227
16	318	307	299	293	286	280	273	265	254

***** 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)

Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	810	592	435	209	52	2	0	1	32	193	528	794	3648
60	655	452	284	108	15	0	0	0	7	86	385	639	2631
57	562	369	202	64	6	0	0	0	2	45	304	546	2100
55	500	315	153	42	3	0	0	0	0	28	255	485	1781
50	348	191	62	11	0	0	0	0	0	6	151	336	1105
32	14	3	0	0	0	0	0	0	0	0	4	17	38

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	226	336	589	808	1127	1338	1450	1390	1132	845	467	246	9954
55	0	4	28	160	417	648	737	677	442	160	27	1	3301
57	0	1	15	122	359	588	675	615	384	116	17	0	2892
60	0	0	5	76	275	498	582	522	298	63	7	0	2326
65	0	0	0	27	156	349	427	368	173	15	0	0	1515
70	0	0	0	6	72	211	273	219	82	2	0	0	865

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	99	188	376	585	891	1110	1215	1158	907	621	275	109	99	287	663	1248	2139	3249	4464	5622	6529	7150	7425	7534
45	39	95	243	437	736	960	1060	1003	758	468	162	46	39	134	377	814	1550	2510	3570	4573	5331	5799	5961	6007
50	8	41	133	301	582	810	905	848	610	323	78	12	8	49	182	483	1065	1875	2780	3628	4238	4561	4639	4651
55	0	12	57	182	430	660	750	693	463	190	26	0	0	12	69	251	681	1341	2091	2784	3247	3437	3463	3463
60	0	0	15	87	283	510	595	538	322	88	5	0	0	0	15	102	385	895	1490	2028	2350	2438	2443	2443
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	152	213	319	422	564	690	779	742	579	426	247	157	152	365	684	1106	1670	2360	3139	3881	4460	4886	5133	5290

(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