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: ESTANCIA 7 NE, NM **COOP ID: 293060**

Climate Division: NM 6 **NWS Call Sign:** **Elevation: 6,120 Feet** **Lat: 34˚51N** **Lon: 105˚58W**

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	46.3	13.2	29.8	71	1971	31	35.7	1986	-37	1971	7	24.3	1979	1092	0	.0	.0	13.0	2.4	29.7	1.5
Feb	52.3	16.9	34.6	77	1986	25	40.4	1995	-29	1951	1	30.4	1974	852	0	.0	.0	19.1	.9	26.4	.5
Mar	59.5	21.7	40.6	84	1989	10	44.8	1989	-9	1948	11	35.8	1977	756	0	.0	.0	27.7	.1	24.9	@
Apr	66.8	27.5	47.2	88+	1981	30	52.7	1989	7	1983	5	40.3	1973	536	0	.0	.0	28.5	@	17.7	.0
May	76.2	37.3	56.8	96	2000	31	62.5	1996	12	1967	2	53.0	1975	265	10	.0	.9	31.0	.0	4.8	.0
Jun	86.5	45.4	66.0	104+	1989	19	71.2	1990	27	1963	9	62.5	1973	61	89	.7	11.0	30.0	.0	.2	.0
Jul	88.6	51.8	70.2	103	1957	3	73.3	1993	37	1965	5	68.2	1975	2	164	.4	16.0	31.0	.0	.0	.0
Aug	85.7	51.1	68.4	98+	1966	1	72.0	1994	33	1968	24	65.4	1971	17	123	.0	8.6	31.0	.0	.0	.0
Sep	79.5	42.9	61.2	96	1983	3	65.7	1983	22	1970	27	58.4	1975	138	25	.0	1.7	29.9	.0	1.4	.0
Oct	69.6	30.8	50.2	89+	1954	3	53.5	1992	4	1991	31	45.6	1976	458	0	.0	.0	30.0	.0	13.9	.0
Nov	56.2	20.2	38.2	79	1968	1	41.8	1998	-22	1976	28	33.1	1976	804	0	.0	.0	22.4	.2	25.5	.2
Dec	47.0	12.4	29.7	70+	1950	11	36.4	1977	-23	1997	26	22.7	1997	1094	0	.0	.0	14.1	2.2	29.7	2.0
Ann	67.9	30.9	49.4	104+	Jun 1989	19	73.3	Jul 1993	-37	Jan 1971	7	22.7	Dec 1997	6075	411	1.1	38.2	307.7	5.8	174.2	4.2

\+ 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: 1948-2001

(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	.70	.58	1.38	1987	16	2.63	1987	.00	1976
Feb	.51	.40	.97	1957	18	1.63	1986	.00+	2000
Mar	.71	.62	1.27	1998	15	2.90	1998	.00+	1972
Apr	.57	.43	1.13	1988	16	1.76	1988	.00+	1996
May	1.22	.96	2.30	1991	21	4.55	1992	.00+	2000
Jun	1.18	.51	3.15	1996	27	6.95	1996	.00+	1982
Jul	2.30	2.38	1.69	1995	18	4.89	1998	.64	1980
Aug	2.43	2.39	2.64	1950	2	6.07	1993	.79	1984
Sep	1.88	1.61	1.76	1981	16	4.54	1997	.34	1989
Oct	1.54	.72	2.30	1960	16	5.68	1985	.00	1975
Nov	.87	.75	1.48	1986	2	3.76	1986	.00+	1999
Dec	.95	.62	1.34	1987	13	3.05	1991	.00+	1996
Ann	14.86	14.72	3.15	Jun 1996	27	6.95	Jun 1996	.00+	May 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	4.4	2.3	.3	.1
Feb	3.7	1.6	.1	.0
Mar	4.8	2.1	.3	.1
Apr	3.3	1.7	.2	@
May	4.5	2.8	.8	.2
Jun	4.4	2.5	.6	.2
Jul	9.6	5.7	1.2	.3
Aug	9.8	6.2	1.5	.2
Sep	6.8	4.4	1.1	.4
Oct	5.5	3.3	.9	.3
Nov	4.3	2.4	.4	.1
Dec	4.0	2.5	.6	@
Ann	65.1	37.5	8.0	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	.05	.12	.23	.34	.44	.56	.70	.86	1.09	1.45	1.81
Feb	.00	.00	.11	.20	.28	.38	.50	.64	.83	1.14	1.45
Mar	.00	.06	.19	.30	.42	.55	.70	.89	1.14	1.56	1.97
Apr	.00	.00	.00	.19	.31	.44	.58	.74	.97	1.33	1.67
May	.00	.00	.19	.38	.59	.84	1.13	1.51	2.03	2.91	3.78
Jun	.00	.00	.09	.23	.42	.66	.97	1.38	1.98	3.04	4.14
Jul	.83	1.05	1.36	1.62	1.87	2.13	2.41	2.73	3.15	3.79	4.38
Aug	.81	1.04	1.37	1.66	1.94	2.22	2.53	2.89	3.36	4.08	4.75
Sep	.41	.59	.86	1.11	1.36	1.63	1.93	2.28	2.76	3.51	4.22
Oct	.02	.09	.27	.47	.72	1.01	1.37	1.84	2.51	3.67	4.83
Nov	.00	.00	.24	.40	.55	.71	.89	1.11	1.40	1.87	2.32
Dec	.00	.00	.13	.27	.44	.63	.86	1.16	1.57	2.29	3.00
Ann	9.39	10.40	11.72	12.74	13.66	14.55	15.49	16.53	17.81	19.69	21.33

\+ 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

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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	3.9	3.4	2	#	22.0	1987	16	22.0	1987	39	1987	18	14	1987	1.9	1.6	.9	.4	.1	3.3	2.5	.5	.0
Feb	3.4	1.6	1	#	10.0	1983	4	10.4	1983	18	1986	9	5	1987	1.6	1.0	.8	.3	.1	.9	.4	.2	.0
Mar	2.4	.0	#	0	7.5	1989	20	8.5	2000	12+	1989	21	8	1978	1.2	1.0	.3	.1	.0	.7	.3	.2	@
Apr	1.1	.0	#	0	8.0	1986	19	8.0	1986	4	1997	13	#+	1997	.3	.2	.1	.1	.0	.1	@	.0	.0
May	#	.0	#	0	#	1987	5	#	1987	3	1978	2	#	1978	.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	1.4	.0	#	0	8.0	1986	12	8.0+	1991	8	1991	31	#+	1997	.3	.2	.2	.1	.0	.1	.1	.1	.0
Nov	2.6	.0	#	0	8.0	1976	27	12.0	1991	10	1986	23	3	1980	.7	.7	.4	.3	.0	.5	.3	.2	.0
Dec	7.3	5.0	1	1	17.0	1987	13	30.8	1997	17	1987	13	5	1992	1.9	1.6	1.2	.6	.1	4.4	2.8	1.7	.4
Ann	22.1	10.0	N/A	N/A	22.0	Jan 1987	16	30.8	Dec 1997	39	Jan 1987	18	14	Jan 1987	7.9	6.3	3.9	1.9	.3	10.0	6.4	2.9	.4

+ 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	6/16	6/11	6/07	6/04	6/01	5/29	5/25	5/22	5/16
32	6/03	5/29	5/25	5/22	5/19	5/16	5/12	5/09	5/03
28	5/24	5/19	5/14	5/11	5/07	5/04	4/30	4/26	4/20
24	5/09	5/03	4/29	4/25	4/21	4/17	4/13	4/09	4/03
20	5/01	4/24	4/18	4/13	4/09	4/04	3/31	3/25	3/17
16	4/14	4/08	4/03	3/30	3/26	3/22	3/18	3/13	3/07

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	9/14	9/17	9/20	9/22	9/24	9/26	9/28	10/01	10/04
32	9/20	9/23	9/26	9/29	10/01	10/03	10/05	10/08	10/12
28	9/27	10/01	10/04	10/07	10/09	10/12	10/15	10/18	10/22
24	10/04	10/10	10/13	10/17	10/20	10/22	10/26	10/29	11/04
20	10/14	10/20	10/24	10/28	10/31	11/03	11/06	11/11	11/16
16	10/24	10/30	11/03	11/07	11/10	11/13	11/16	11/20	11/26

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	132	126	122	118	114	111	107	103	97
32	156	148	143	139	134	130	126	120	113
28	176	169	163	159	154	150	145	140	132
24	206	197	191	186	181	176	170	164	156
20	234	223	216	210	204	199	192	185	175
16	255	246	239	234	228	223	217	210	201

***** 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	1092	852	756	536	265	61	2	17	138	458	804	1094	6075
60	937	712	601	389	144	16	0	1	51	306	654	939	4750
57	844	628	508	306	89	6	0	0	22	223	564	846	4036
55	782	572	447	253	61	2	0	0	11	173	504	784	3589
50	627	432	296	143	18	0	0	0	1	76	359	629	2581
32	138	45	6	1	0	0	0	0	0	0	31	147	368

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	69	117	273	455	768	1018	1184	1129	876	565	216	76	6746
55	0	0	0	18	116	331	471	416	197	25	0	0	1574
57	0	0	0	10	82	274	409	354	148	13	0	0	1290
60	0	0	0	4	44	194	316	262	87	4	0	0	911
65	0	0	0	0	10	89	164	123	25	0	0	0	411
70	0	0	0	0	1	26	45	32	3	0	0	0	107

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	12	49	148	317	583	833	984	922	687	376	98	17	12	61	209	526	1109	1942	2926	3848	4535	4911	5009	5026
45	1	10	59	187	428	683	829	767	537	239	34	0	1	11	70	257	685	1368	2197	2964	3501	3740	3774	3774
50	0	0	17	85	278	533	674	612	388	120	8	0	0	0	17	102	380	913	1587	2199	2587	2707	2715	2715
55	0	0	1	29	146	383	519	457	245	36	0	0	0	0	1	30	176	559	1078	1535	1780	1816	1816	1816
60	0	0	0	2	55	241	364	302	119	6	0	0	0	0	0	2	57	298	662	964	1083	1089	1089	1089
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	46	94	186	291	431	542	615	587	464	322	138	48	46	140	326	617	1048	1590	2205	2792	3256	3578	3716	3764

(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

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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