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: MALJAMAR 4 SE, NM **COOP ID: 295370**

Climate Division: NM 7 **NWS Call Sign:** **Elevation: 4,000 Feet** **Lat: 32˚49N** **Lon: 103˚42W**

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	56.0	25.0	40.5	84	2000	17	46.4	1999	-13	1962	11	34.8	1979	760	0	.0	.0	23.3	1.4	25.2	.1
Feb	62.1	28.8	45.5	85	2000	3	54.2	2000	-10	1951	1	40.5	1973	548	0	.0	.0	24.5	.7	18.6	@
Mar	70.0	35.2	52.6	92	1997	21	57.4	1974	4	1971	3	47.7	1987	387	2	.0	.2	30.2	@	10.8	.0
Apr	78.3	42.9	60.6	100+	1989	22	66.6	2000	19	1987	3	53.3	1983	176	43	.1	2.4	29.7	.0	3.0	.0
May	86.4	52.1	69.3	109	1998	29	77.1	1996	30	1979	4	64.9	1975	51	182	1.9	11.4	31.0	.0	.1	.0
Jun	94.2	60.2	77.2	116	1994	27	84.1	1990	41	1970	1	73.4	1992	3	369	7.8	23.0	30.0	.0	.0	.0
Jul	95.5	63.5	79.5	111+	1995	26	84.7	1998	49	1948	6	74.5	1975	0	449	9.5	26.1	31.0	.0	.0	.0
Aug	93.0	62.6	77.8	109	1994	18	82.0	1999	50	1976	29	72.7	1971	1	399	5.5	23.2	31.0	.0	.0	.0
Sep	86.6	56.4	71.5	107	2000	4	78.8	2000	30	1999	29	64.2	1974	28	223	1.2	13.3	29.9	.0	.1	.0
Oct	77.2	45.6	61.4	98+	1998	10	65.9	1998	16	1991	31	55.0	1976	147	36	.0	2.6	30.6	.0	1.8	.0
Nov	64.9	33.8	49.4	86+	1973	8	57.1	1999	-4	1976	29	43.5	1976	473	3	.0	.0	27.0	.1	13.3	@
Dec	56.9	26.2	41.6	79+	1980	28	46.2	1994	-3	1989	23	35.5	1983	726	0	.0	.0	24.6	.9	24.2	.1
Ann	76.8	44.4	60.6	116	Jun 1994	27	84.7	Jul 1998	-13	Jan 1962	11	34.8	Jan 1979	3300	1706	26.0	102.2	342.8	3.1	97.1	.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: 1948-2000

(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	.44	.29	1.50	1961	24	1.60	1980	.00+	2000
Feb	.49	.35	.81	1988	5	1.86	1997	.00+	2000
Mar	.41	.23	1.21	1968	20	1.83	1999	.00+	1996
Apr	.53	.43	1.57	1966	24	2.34	1997	.00+	1991
May	1.81	1.44	3.30	1970	25	7.69	1992	.00+	2000
Jun	1.76	1.64	3.45	1948	2	5.85	1986	.00	1990
Jul	2.29	1.88	3.41	1960	7	6.74	1975	.00	1980
Aug	2.79	2.07	4.72	1960	10	10.88	1972	.00	1994
Sep	3.06	2.33	3.50	1980	26	7.71	1991	.00	2000
Oct	1.17	.85	4.29	1955	3	4.78	1974	.00+	1989
Nov	.67	.54	2.25	1971	16	1.85	1978	.00+	1999
Dec	.66	.23	1.45	1971	5	3.70	1991	.00+	1996
Ann	16.08	15.78	4.72	Aug 1960	10	10.88	Aug 1972	.00+	Sep 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	3.0	1.5	.2	@
Feb	2.9	1.5	.2	.0
Mar	2.2	1.2	.2	.0
Apr	2.6	1.5	.3	.0
May	4.4	3.4	1.3	.5
Jun	4.7	3.7	1.2	.6
Jul	5.9	4.6	1.4	.5
Aug	6.2	4.8	1.7	.7
Sep	5.6	4.4	2.0	.9
Oct	3.9	2.5	.9	.1
Nov	2.9	2.0	.4	.1
Dec	3.0	1.7	.4	.1
Ann	47.3	32.8	10.2	3.5

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	.00	.03	.10	.17	.24	.32	.42	.54	.71	1.00	1.28
Feb	.00	.00	.05	.13	.22	.32	.44	.60	.82	1.18	1.55
Mar	.00	.02	.07	.13	.20	.28	.37	.50	.67	.96	1.25
Apr	.00	.00	.10	.19	.28	.38	.51	.66	.87	1.23	1.58
May	.00	.06	.26	.51	.81	1.16	1.61	2.18	3.00	4.42	5.85
Jun	.08	.23	.49	.74	1.02	1.34	1.70	2.17	2.80	3.85	4.87
Jul	.15	.38	.75	1.08	1.44	1.82	2.27	2.83	3.57	4.79	5.97
Aug	.12	.36	.77	1.17	1.61	2.11	2.70	3.43	4.44	6.11	7.74
Sep	.10	.34	.76	1.21	1.69	2.25	2.91	3.75	4.91	6.84	8.75
Oct	.00	.00	.16	.34	.54	.77	1.06	1.43	1.94	2.82	3.70
Nov	.00	.00	.12	.23	.35	.48	.64	.84	1.10	1.56	2.01
Dec	.00	.00	.02	.09	.20	.34	.52	.77	1.13	1.76	2.42
Ann	8.88	10.14	11.83	13.16	14.37	15.57	16.83	18.25	20.02	22.65	24.98

+ 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: 1948-2000
(3) Derived from 1971-2000 serially complete daily data

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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	2.0	1.5	#	#
Feb	1.8	.0	#	0
Mar	.4	.0	#	0
Apr	.3	.0	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	.0	0	0
Nov	.9	.0	#	0
Dec	2.5	.0	#	#
Ann	8.1	1.5	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	14.0	1982	13	14.0	1982	14	1982	13	1	1982
Feb	9.0	1988	5	12.0	1973	9	1988	6	1	1988
Mar	4.0	1973	10	4.5	1973	1	1977	5	#+	1989
Apr	4.0	1983	5	8.5	1983	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
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	2.0	1993	30	2.0	1993	0	0	0	0	0
Nov	6.0	1976	12	9.5	1976	6	1976	12	#+	1982
Dec	12.0	1987	14	15.7	1987	15	1987	14	1	1997
Ann	14.0	Jan 1982	13	15.7	Dec 1987	15	Dec 1987	14	1+	Dec 1997

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.1	.8	.1	@	@
Feb	.6	.3	.3	.1	.0
Mar	.3	.2	.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	.0	.0	.0
Nov	.4	.3	.1	@	.0
Dec	.9	.6	.3	.1	@
Ann	3.5	2.4	1.0	.2	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.7	.2	.2	@
Feb	.2	.1	.1	.0
Mar	@	.0	.0	.0
Apr	.0	.0	.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	.0	.0	.0	.0
Nov	.3	.2	@	.0
Dec	.7	.2	@	@
Ann	1.9	.7	.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

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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	5/08	5/04	5/02	4/30	4/28	4/26	4/24	4/21	4/18
32	4/30	4/25	4/21	4/18	4/15	4/12	4/09	4/05	3/31
28	4/16	4/11	4/08	4/05	4/02	3/30	3/27	3/24	3/19
24	4/10	4/03	3/30	3/26	3/23	3/19	3/15	3/11	3/05
20	4/02	3/24	3/18	3/13	3/08	3/04	2/26	2/20	2/12
16	3/21	3/11	3/03	2/25	2/20	2/14	2/08	2/01	1/22

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	9/28	10/04	10/09	10/13	10/17	10/21	10/25	10/29	11/05
32	10/08	10/14	10/19	10/22	10/26	10/30	11/02	11/07	11/13
28	10/13	10/20	10/25	10/29	11/02	11/05	11/09	11/14	11/21
24	10/26	11/01	11/05	11/09	11/13	11/16	11/20	11/25	12/01
20	11/05	11/10	11/14	11/18	11/21	11/24	11/28	12/02	12/07
16	11/10	11/18	11/25	11/30	12/05	12/10	12/15	12/22	1/01

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	191	184	179	175	171	167	163	158	151
32	213	206	201	197	193	190	186	181	174
28	236	228	222	217	213	208	204	198	190
24	261	252	245	240	234	229	223	217	208
20	290	278	270	263	257	251	244	236	224
16	332	315	304	295	287	279	270	260	247

***** 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	760	548	387	176	51	3	0	1	28	147	473	726	3300
60	605	409	246	88	16	0	0	0	7	59	334	571	2335
57	512	331	172	50	7	0	0	0	2	30	259	479	1842
55	452	280	131	32	4	0	0	0	0	17	214	418	1548
50	307	169	55	8	0	0	0	0	0	3	123	274	939
32	15	4	0	0	0	0	0	0	0	0	3	8	30

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	278	381	638	858	1154	1356	1472	1421	1186	912	523	305	10484
55	2	13	57	199	445	666	759	708	496	216	45	2	3608
57	0	7	36	158	386	606	697	646	438	167	29	1	3171
60	0	2	16	105	302	516	604	553	353	104	15	0	2570
65	0	0	2	43	182	369	449	399	223	36	3	0	1706
70	0	0	0	13	93	233	302	253	124	7	0	0	1025

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	127	223	420	634	923	1130	1245	1192	959	679	309	138	127	350	770	1404	2327	3457	4702	5894	6853	7532	7841	7979
45	53	124	278	488	768	980	1090	1037	809	527	190	61	53	177	455	943	1711	2691	3781	4818	5627	6154	6344	6405
50	14	55	161	347	613	830	935	882	659	382	99	18	14	69	230	577	1190	2020	2955	3837	4496	4878	4977	4995
55	0	17	71	218	459	680	780	727	512	242	33	0	0	17	88	306	765	1445	2225	2952	3464	3706	3739	3739
60	0	1	21	107	311	530	625	572	367	126	7	0	0	1	22	129	440	970	1595	2167	2534	2660	2667	2667
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	143	212	333	440	584	695	775	754	613	448	248	152	143	355	688	1128	1712	2407	3182	3936	4549	4997	5245	5397

(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