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: GILA HOT SPRINGS, NM **COOP ID: 293530**

Climate Division: NM 4 **NWS Call Sign:** **Elevation: 5,600 Feet** **Lat: 33˚12N** **Lon: 108˚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	53.4	19.2	36.3	76+	1971	18	41.0	1993	-15	1971	5	32.7	1979	889	0	.0	.0	23.1	.2	28.9	.3
Feb	57.6	21.9	39.8	79	1986	26	45.1	1996	-3	1965	12	35.4	1974	708	0	.0	.0	24.0	.3	26.1	@
Mar	62.9	25.6	44.3	85	1989	11	48.3	1972	4+	1966	4	39.2	1977	643	0	.0	.0	29.8	.0	26.7	.0
Apr	70.3	29.9	50.1	91	1961	4	55.0	1989	12	1973	5	45.2	1975	447	0	.0	@	29.6	.0	20.7	.0
May	77.9	36.9	57.4	96+	1989	7	61.9	2000	19	1967	1	53.9	1971	241	6	.0	1.8	31.0	.0	8.0	.0
Jun	86.8	44.3	65.6	104+	1990	24	69.8	1990	27	1967	12	62.1	1982	60	76	1.3	12.8	30.0	.0	.5	.0
Jul	86.5	53.5	70.0	103+	1971	12	72.3	1971	38+	1960	18	67.9	1976	2	157	.7	14.0	31.0	.0	.0	.0
Aug	83.8	53.2	68.5	100+	1980	1	72.0	1994	38	1976	6	65.8	1974	13	121	.1	6.3	31.0	.0	.0	.0
Sep	80.2	45.7	63.0	98+	1960	17	67.0	1983	28	1965	30	60.5	1988	96	35	.0	2.1	30.0	.0	.5	.0
Oct	72.0	34.3	53.2	92	1959	23	56.8	1988	13+	1970	28	49.3	1976	368	0	.0	.1	30.6	.0	13.8	.0
Nov	61.5	23.7	42.6	81+	1967	14	46.9	1995	5+	1957	23	38.0	1992	672	0	.0	.0	27.4	.0	26.4	.0
Dec	53.6	19.1	36.4	73+	1958	4	39.9	1994	-13	1978	8	32.5	1974	889	0	.0	.0	22.5	.1	28.7	.2
Ann	70.5	33.9	52.3	104+	Jun 1990	24	72.3	Jul 1971	-15	Jan 1971	5	32.5	Dec 1974	5028	395	2.1	37.1	340.0	.6	180.3	.5

\+ 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: 1957-2001

(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	1.07	.75	1.86	1995	5	3.58	1993	.03	1996
Feb	1.04	.93	1.25	1997	28	2.73	1993	.02+	2000
Mar	.90	.86	.91	1982	13	1.97	1975	.00+	1996
Apr	.34	.21	.79	1988	16	1.67	1985	.00+	1996
May	.68	.51	1.43	1973	14	4.63	1992	.00+	2000
Jun	.68	.39	1.36	1996	28	2.49	2000	.00+	1995
Jul	2.76	2.94	2.07	1968	10	4.88	1975	.49	1994
Aug	3.32	2.88	1.60+	1988	15	8.45	1988	.70	1973
Sep	2.00	1.72	3.48	1997	21	6.55	1975	.10	2000
Oct	1.76	1.57	1.87	1985	10	5.69	1972	.00+	1999
Nov	1.12	.82	2.39	1994	12	4.65	1994	.00	1999
Dec	1.30	.76	1.73	1978	18	4.69	1984	.00+	1996
Ann	16.97	16.75	3.48	Sep 1997	21	8.45	Aug 1988	.00+	May 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	5.4	3.0	.5	.1
Feb	5.1	2.9	.5	.1
Mar	4.7	2.7	.5	.0
Apr	2.6	1.1	.1	.0
May	3.9	2.3	.2	@
Jun	4.2	2.0	.3	.1
Jul	12.8	7.0	1.6	.3
Aug	13.8	8.4	1.7	.5
Sep	7.9	4.5	1.0	.3
Oct	6.2	3.7	1.2	.4
Nov	4.2	2.6	.6	.2
Dec	4.8	3.1	.8	.2
Ann	75.6	43.3	9.0	2.2

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	.06	.12	.24	.39	.55	.75	.98	1.29	1.72	2.46	3.19
Feb	.04	.09	.20	.34	.50	.69	.93	1.24	1.68	2.44	3.21
Mar	.00	.21	.40	.54	.67	.80	.95	1.12	1.34	1.70	2.03
Apr	.00	.00	.00	.08	.15	.22	.32	.43	.59	.85	1.11
May	.00	.00	.07	.18	.30	.44	.61	.83	1.14	1.66	2.18
Jun	.00	.00	.05	.13	.24	.38	.56	.80	1.14	1.76	2.40
Jul	.96	1.22	1.60	1.92	2.23	2.54	2.88	3.28	3.79	4.58	5.31
Aug	1.24	1.55	1.99	2.37	2.72	3.08	3.47	3.93	4.51	5.40	6.22
Sep	.23	.38	.66	.93	1.23	1.56	1.95	2.44	3.09	4.18	5.24
Oct	.00	.00	.29	.61	.94	1.30	1.71	2.23	2.93	4.06	5.18
Nov	.05	.14	.30	.47	.64	.84	1.08	1.38	1.78	2.46	3.13
Dec	.00	.00	.14	.32	.54	.80	1.13	1.56	2.17	3.24	4.31
Ann	11.66	12.67	13.97	14.96	15.85	16.71	17.60	18.58	19.78	21.53	23.04

\+ 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: 1957-2001
(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	3.4	2.0	#	#
Feb	1.2	.0	#	0
Mar	.4	.0	#	0
Apr	.0	.0	#	0
May	#	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	#	0
Sep	.0	.0	0	0
Oct	.4	.0	#	0
Nov	.4	.0	#	0
Dec	1.0	.0	#	#
Ann	6.8	2.0	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	7.0	1994	29	18.0	1994	6	1978	20	3	1985
Feb	6.0	1986	9	15.0	1986	13	1979	5	1	1986
Mar	4.0	1976	4	7.8	1976	1+	1984	5	#+	1984
Apr	.5	1998	2	.5	1998	#	1995	18	#	1995
May	#	1995	7	#	1995	#	1995	7	#	1995
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	2	1993	2	#	1993
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	5.5	1996	26	5.5	1996	3	1996	26	#	1996
Nov	4.0	1975	29	4.0	1975	4	1975	29	#+	1996
Dec	7.1	1987	25	11.5	1990	7	1987	25	1	1990
Ann	7.1	Dec 1987	25	18.0	Jan 1994	13	Feb 1979	5	3	Jan 1985

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.1	.9	.5	.2	.0
Feb	.4	.3	.2	.1	.0
Mar	.2	.1	.1	.0	.0
Apr	@	.0	.0	.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	.1	@	.0
Nov	.3	.2	@	.0	.0
Dec	.7	.4	.2	.1	.0
Ann	2.8	2.0	1.1	.4	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	1.4	.7	.2	.0
Feb	.5	.2	@	.0
Mar	.1	.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
Nov	.1	@	.0	.0
Dec	1.0	.5	.2	.0
Ann	3.1	1.4	.4	.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	6/27	6/21	6/17	6/14	6/11	6/07	6/04	5/31	5/25
32	6/07	6/02	5/29	5/26	5/23	5/20	5/17	5/13	5/08
28	5/21	5/16	5/12	5/09	5/06	5/03	4/30	4/27	4/22
24	5/04	4/29	4/25	4/22	4/19	4/16	4/13	4/09	4/04
20	4/20	4/14	4/09	4/05	4/02	3/29	3/25	3/21	3/15
16	4/05	3/26	3/19	3/12	3/07	3/01	2/23	2/16	2/06

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	9/17	9/20	9/22	9/24	9/26	9/28	9/30	10/03	10/06
32	9/25	9/29	10/02	10/05	10/07	10/09	10/12	10/15	10/19
28	10/05	10/10	10/14	10/16	10/19	10/22	10/25	10/28	11/02
24	10/10	10/15	10/19	10/23	10/26	10/29	11/01	11/05	11/10
20	10/26	10/30	11/02	11/05	11/08	11/11	11/13	11/17	11/21
16	11/07	11/12	11/15	11/18	11/21	11/24	11/27	12/01	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	124	118	114	110	107	104	100	96	90
32	153	148	143	140	136	133	129	125	119
28	183	177	172	169	165	161	158	153	147
24	210	203	198	193	189	185	181	175	168
20	241	234	228	224	219	215	210	205	198
16	289	278	271	265	259	253	246	239	229

***** 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	889	708	643	447	241	60	2	13	96	368	672	889	5028
60	734	568	488	302	116	14	0	1	26	219	522	734	3724
57	641	484	396	221	63	4	0	0	8	142	432	641	3032
55	579	428	335	172	39	2	0	0	3	100	373	579	2610
50	424	289	195	80	7	0	0	0	0	30	231	424	1680
32	17	5	0	0	0	0	0	0	0	0	2	18	42

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	151	221	380	543	788	1007	1178	1131	929	656	320	151	7455
55	0	0	2	25	114	318	465	418	242	42	0	0	1626
57	0	0	0	14	76	261	403	356	187	23	0	0	1320
60	0	0	0	5	36	181	310	264	115	7	0	0	918
65	0	0	0	0	6	76	157	121	35	0	0	0	395
70	0	0	0	0	0	19	40	28	5	0	0	0	92

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	30	77	182	341	579	804	966	918	719	439	135	27	30	107	289	630	1209	2013	2979	3897	4616	5055	5190	5217
45	1	16	70	204	424	654	811	763	569	290	47	0	1	17	87	291	715	1369	2180	2943	3512	3802	3849	3849
50	0	0	16	90	270	504	656	608	419	152	7	0	0	0	16	106	376	880	1536	2144	2563	2715	2722	2722
55	0	0	0	26	126	354	501	453	270	52	0	0	0	0	0	26	152	506	1007	1460	1730	1782	1782	1782
60	0	0	0	0	35	206	346	298	135	7	0	0	0	0	0	0	35	241	587	885	1020	1027	1027	1027
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	105	156	240	341	462	539	612	591	489	373	204	105	105	261	501	842	1304	1843	2455	3046	3535	3908	4112	4217

(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