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: CALICO ROCK 2 WSW, AR **COOP ID: 031132**

Climate Division: AR 2 **NWS Call Sign:** **Elevation: 350 Feet** **Lat: 36˚07N** **Lon: 92˚10W**

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	46.1	21.7	33.9	79	1967	23	41.6+	1998	-17+	1930	18	21.9	1977	965	0	.0	.0	13.3	3.9	24.4	.7
Feb	51.8	24.9	38.4	85+	1982	23	46.0	2000	-7+	1933	11	26.6	1978	746	0	.0	.0	17.7	1.8	19.6	.3
Mar	61.3	33.5	47.4	93	1967	12	52.3	1973	6	1996	9	41.1	1975	547	0	.0	@	27.0	.1	13.6	.0
Apr	70.2	41.4	55.8	95+	1937	17	62.3	1981	19+	1966	6	50.8	1983	285	8	.0	.4	29.6	.0	4.8	.0
May	77.6	52.1	64.9	98+	1934	31	70.0	1991	30+	1976	3	57.7	1976	102	95	.0	1.4	31.0	.0	.4	.0
Jun	85.2	59.9	72.6	110	1936	20	76.6	1994	36	1969	2	67.9	1974	10	236	.5	11.4	30.0	.0	.0	.0
Jul	90.7	64.0	77.4	111+	1934	25	83.2	1980	45	1970	22	74.8	1976	0	382	3.9	22.6	31.0	.0	.0	.0
Aug	90.0	62.6	76.3	114	1934	10	83.1	1980	40	1986	29	71.1	1992	3	353	3.0	20.1	31.0	.0	.0	.0
Sep	82.4	55.1	68.8	106	2000	1	74.2	1998	31+	1967	29	63.0	1974	41	155	.6	7.9	30.0	.0	.1	.0
Oct	73.1	43.5	58.3	95	1981	1	63.6	1971	19	1981	24	53.2	1976	230	22	.0	.8	30.8	.0	3.7	.0
Nov	59.4	33.7	46.6	87	1989	11	52.5	1999	4	1976	30	38.2	1976	554	0	.0	.0	23.9	.1	13.1	.0
Dec	49.4	25.6	37.5	82	1933	1	45.5	1984	-8+	1983	25	25.6	1983	853	0	.0	.0	16.7	2.1	21.6	.3
Ann	69.8	43.2	56.5	114	Aug 1934	10	83.2	Jul 1980	-17+	Jan 1930	18	21.9	Jan 1977	4336	1251	8.0	64.6	312.0	8.0	101.3	1.3

\+ 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

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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	2.73	2.45	7.67	1949	24	7.81	1982	.29	1986
Feb	3.08	2.66	3.20	1945	21	9.79	1989	.68	1996
Mar	4.62	4.01	4.83	1977	28	9.27	1975	1.25	1971
Apr	4.36	4.18	3.53	1957	4	11.32	1973	1.65	1971
May	4.83	4.66	4.65	1963	25	8.89	1979	1.31	1994
Jun	3.75	3.68	5.25	1988	30	6.86	1992	.89	1984
Jul	3.07	2.90	3.30	1988	19	6.70	1992	.69	1984
Aug	2.93	2.84	3.45	1958	2	7.28	1975	.67	1995
Sep	4.08	3.67	4.80	1965	22	11.27	1993	.54	1981
Oct	3.61	3.12	5.51	1998	5	11.77	1984	.69	1977
Nov	4.93	5.21	4.00	1996	7	12.32	1996	.61	1989
Dec	4.00	3.89	6.75	1982	3	13.65	1982	.95	2000
Ann	45.99	46.84	7.67	Jan 1949	24	13.65	Dec 1982	.29	Jan 1986

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.2	5.6	1.6	.6
Feb	7.4	5.3	2.3	.8
Mar	9.9	7.2	3.4	1.4
Apr	9.4	6.6	3.1	1.6
May	11.1	7.6	3.6	1.6
Jun	9.3	5.9	2.8	.9
Jul	7.1	5.2	1.9	.9
Aug	7.3	4.8	2.2	.9
Sep	8.5	5.7	2.7	1.4
Oct	7.6	5.3	2.5	1.2
Nov	8.5	6.2	3.5	1.6
Dec	8.2	6.2	2.9	.9
Ann	102.5	71.6	32.5	13.8

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	.50	.75	1.15	1.52	1.89	2.30	2.76	3.32	4.07	5.27	6.41
Feb	.75	1.04	1.49	1.89	2.28	2.70	3.17	3.72	4.45	5.60	6.68
Mar	1.52	1.96	2.60	3.15	3.68	4.22	4.82	5.51	6.41	7.80	9.08
Apr	1.33	1.74	2.36	2.89	3.41	3.94	4.53	5.22	6.11	7.51	8.80
May	2.02	2.46	3.07	3.58	4.06	4.54	5.06	5.66	6.42	7.58	8.63
Jun	1.42	1.77	2.27	2.68	3.08	3.49	3.92	4.43	5.08	6.08	6.99
Jul	.87	1.16	1.61	1.99	2.36	2.75	3.18	3.69	4.35	5.39	6.35
Aug	.68	.95	1.38	1.77	2.15	2.56	3.01	3.56	4.27	5.40	6.47
Sep	.75	1.12	1.71	2.27	2.83	3.44	4.13	4.97	6.08	7.87	9.58
Oct	.83	1.16	1.69	2.17	2.64	3.14	3.70	4.38	5.26	6.66	7.98
Nov	.98	1.42	2.15	2.81	3.48	4.20	5.02	6.00	7.30	9.38	11.36
Dec	.93	1.31	1.89	2.41	2.94	3.49	4.11	4.85	5.82	7.36	8.80
Ann	31.27	34.07	37.68	40.44	42.91	45.30	47.78	50.53	53.88	58.76	63.00

\+ 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: 1930-2001
(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	4.0	3.0	#	0
Feb	1.8	.0	#	0
Mar	1.3	.0	#	0
Apr	#	.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	.9	.0	#	0
Dec	.3	.0	#	0
Ann	8.3	3.0	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	6.0	1988	7	13.0	1979	12	1977	10	1	1978
Feb	8.0	1979	25	13.0	1979	6+	1985	1	3	1985
Mar	8.0	1975	14	8.5	1975	8	1975	14	#+	1999
Apr	#	1973	9	#+	1973	2	1980	14	#	1980
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	.0	0	0	.0	0	0	0	0	0	0
Nov	5.5	1971	23	5.5+	1975	6	1971	23	#+	1980
Dec	2.0	1975	25	3.0	1975	3	1990	27	#+	2000
Ann	8.0+	Feb 1979	25	13.0+	Feb 1979	12	Jan 1977	10	3	Feb 1985

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.9	.9	.6	.2	.0
Feb	.3	.3	.2	.1	.0
Mar	.6	.3	.1	.1	.0
Apr	.0	.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	.0	.0	.0	.0	.0
Nov	.2	.2	.2	.2	.0
Dec	.3	.2	.0	.0	.0
Ann	2.3	1.9	1.1	.6	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.1	.1	.0
Feb	.2	.1	.1	.0
Mar	.2	.1	.1	.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	.1	.1	.1	.0
Dec	.1	.1	.0	.0
Ann	.7	.5	.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	5/17	5/11	5/07	5/04	5/01	4/27	4/24	4/20	4/15
32	5/03	4/28	4/25	4/22	4/19	4/16	4/13	4/10	4/05
28	4/19	4/15	4/13	4/10	4/08	4/06	4/03	3/31	3/28
24	4/09	4/04	3/31	3/28	3/25	3/23	3/20	3/16	3/11
20	3/31	3/24	3/19	3/15	3/12	3/08	3/04	2/27	2/21
16	3/13	3/06	3/01	2/24	2/20	2/16	2/12	2/07	1/31

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	9/20	9/25	9/27	9/30	10/02	10/05	10/07	10/10	10/14
32	9/29	10/04	10/08	10/12	10/15	10/18	10/21	10/25	10/31
28	10/14	10/19	10/23	10/26	10/29	11/01	11/05	11/09	11/14
24	10/28	11/02	11/07	11/10	11/14	11/17	11/21	11/25	12/01
20	11/04	11/11	11/16	11/20	11/24	11/28	12/02	12/07	12/14
16	11/14	11/21	11/26	12/01	12/05	12/09	12/14	12/19	12/26

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	177	169	163	158	154	150	145	139	132
32	200	192	187	183	178	174	169	164	157
28	223	217	212	208	204	200	196	191	184
24	256	248	242	237	232	228	223	217	209
20	284	274	268	262	256	251	245	238	229
16	317	307	299	293	287	281	275	268	258

***** 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	965	746	547	285	102	10	0	3	41	230	554	853	4336
60	810	606	399	162	40	1	0	0	10	121	410	698	3257
57	717	528	315	104	19	0	0	0	3	75	329	609	2699
55	658	476	263	74	11	0	0	0	1	51	278	552	2364
50	515	352	157	23	2	0	0	0	0	15	170	411	1645
32	130	63	6	0	0	0	0	0	0	0	7	74	280

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	188	241	482	713	1017	1216	1405	1373	1103	815	443	244	9240
55	3	11	27	97	315	526	692	660	415	153	24	9	2932
57	0	7	17	67	261	466	630	598	357	114	15	4	2536
60	0	1	8	35	189	378	537	505	274	68	6	0	2001
65	0	0	0	8	95	236	382	353	155	22	0	0	1251
70	0	0	0	1	36	118	233	213	70	4	0	0	675

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	79	150	321	554	817	1021	1197	1158	907	604	279	106	79	229	550	1104	1921	2942	4139	5297	6204	6808	7087	7193
45	37	81	204	407	662	871	1042	1003	757	452	173	56	37	118	322	729	1391	2262	3304	4307	5064	5516	5689	5745
50	17	39	116	273	508	721	887	848	608	310	100	26	17	56	172	445	953	1674	2561	3409	4017	4327	4427	4453
55	4	14	57	166	356	571	732	693	459	189	47	7	4	18	75	241	597	1168	1900	2593	3052	3241	3288	3295
60	0	3	23	82	215	421	577	538	318	93	18	0	0	3	26	108	323	744	1321	1859	2177	2270	2288	2288
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	69	124	237	377	539	678	783	756	597	407	190	82	69	193	430	807	1346	2024	2807	3563	4160	4567	4757	4839

(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