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: MOUNTAIN HOME 1 NNW, AR **COOP ID: 035036**

Climate Division: AR 2 **NWS Call Sign:** **Elevation: 800 Feet** **Lat: 36˚21N** **Lon: 92˚24W**

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	43.7	23.3	33.5	83	1943	24	42.2	1990	-15	1918	12	20.5	1979	977	0	.0	.0	11.7	5.5	24.1	.6
Feb	50.1	27.6	38.9	87	1962	14	47.8	1976	-14	1951	2	26.4	1978	733	0	.0	.0	16.1	2.4	17.9	.4
Mar	59.6	36.7	48.2	94	1929	24	53.9	1974	-2	1948	12	41.1	1975	525	1	.0	.0	24.9	.3	11.2	.0
Apr	69.1	45.4	57.3	95	1940	1	64.3	1981	21+	1920	5	51.7	1983	251	19	.0	.3	29.2	.0	2.3	.0
May	76.6	54.7	65.7	101	1934	31	72.0	1987	29	1903	1	61.3	1976	87	106	.0	.5	31.0	.0	.0	.0
Jun	84.3	62.8	73.6	110	1936	19	77.1	1971	42	1917	16	68.9	1974	6	263	.1	6.9	30.0	.0	.0	.0
Jul	90.0	67.4	78.7	112+	1954	13	85.5	1980	46	1975	14	75.6	1989	0	425	1.5	19.9	31.0	.0	.0	.0
Aug	89.3	65.8	77.6	114	1934	9	84.7	1980	47+	1986	29	71.3	1992	4	394	1.9	17.3	31.0	.0	.0	.0
Sep	81.2	58.4	69.8	107+	1925	6	76.2	1998	32+	1924	30	64.1	1974	36	180	.4	5.3	30.0	.0	.0	.0
Oct	71.5	46.8	59.2	97+	1938	1	64.2	1971	18	1917	30	54.4	1976	207	24	.0	.3	30.7	.0	1.9	.0
Nov	57.1	36.3	46.7	87	1934	6	55.8	1999	9+	1937	21	40.5	1976	551	1	.0	.0	22.7	.2	9.8	.0
Dec	46.7	27.0	36.9	82	1928	28	44.4	1984	-16	1917	9	22.5	1983	872	0	.0	.0	14.5	3.1	21.0	.4
Ann	68.3	46.0	57.2	114	Aug 1934	9	85.5	Jul 1980	-16	Dec 1917	9	20.5	Jan 1979	4249	1413	3.9	50.5	302.8	11.5	88.2	1.4

\+ 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: 1902-2001

(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	2.74	2.43	4.20	1969	30	7.24	1982	.16	1986
Feb	3.00	2.42	4.51	1985	23	9.31	1989	.49	1972
Mar	4.48	3.93	4.65	1985	30	9.48	1998	.79	1971
Apr	4.13	3.57	4.10	1917	1	8.59	1983	1.01	1989
May	4.85	4.22	4.60	1943	10	11.35	1990	2.03	1994
Jun	3.99	4.09	3.84	1925	13	7.44	1993	1.23	1986
Jul	2.73	2.49	4.55	1918	18	5.42	1979	.43	1997
Aug	2.59	2.25	3.25	1943	5	6.19	1982	.10	2000
Sep	4.33	3.64	8.95	1985	4	11.41	1996	.70	1981
Oct	3.14	2.82	4.70	1929	31	9.04	1984	.52	1992
Nov	5.31	4.60	5.19	1994	5	15.60	1994	.59	1989
Dec	3.94	3.34	5.85	1927	13	9.87	1982	.57	1985
Ann	45.23	45.79	8.95	Sep 1985	4	15.60	Nov 1994	.10	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.8	5.4	1.7	.8
Feb	7.0	5.0	2.1	.6
Mar	8.6	6.8	2.9	1.3
Apr	9.5	6.7	3.2	1.1
May	11.3	8.2	3.3	1.4
Jun	8.7	6.3	2.6	1.1
Jul	6.6	4.6	1.9	.7
Aug	6.5	4.4	1.6	.6
Sep	7.6	5.6	2.7	1.4
Oct	7.2	5.2	2.0	.8
Nov	8.2	6.5	3.2	1.8
Dec	7.9	5.7	2.7	1.1
Ann	96.9	70.4	29.9	12.7

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	.39	.62	1.01	1.39	1.79	2.23	2.73	3.35	4.18	5.53	6.83
Feb	.62	.89	1.33	1.73	2.14	2.57	3.06	3.65	4.43	5.68	6.86
Mar	1.29	1.72	2.36	2.92	3.46	4.03	4.65	5.39	6.35	7.85	9.24
Apr	1.25	1.65	2.23	2.73	3.22	3.73	4.29	4.95	5.80	7.12	8.35
May	2.06	2.50	3.12	3.62	4.10	4.57	5.09	5.68	6.43	7.57	8.60
Jun	1.30	1.68	2.24	2.71	3.17	3.64	4.16	4.77	5.55	6.77	7.89
Jul	.61	.87	1.27	1.63	1.99	2.37	2.80	3.31	3.99	5.06	6.07
Aug	.43	.65	1.03	1.39	1.75	2.15	2.61	3.16	3.90	5.10	6.25
Sep	.69	1.06	1.69	2.29	2.91	3.58	4.35	5.28	6.54	8.58	10.53
Oct	.77	1.06	1.52	1.93	2.33	2.76	3.23	3.80	4.54	5.72	6.82
Nov	.87	1.32	2.10	2.83	3.58	4.40	5.34	6.48	8.01	10.48	12.85
Dec	.72	1.07	1.64	2.18	2.73	3.32	3.99	4.80	5.88	7.62	9.28
Ann	30.96	33.68	37.19	39.87	42.26	44.58	46.98	49.65	52.89	57.62	61.72

\+ 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: 1902-2001
(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	4.6	2.4	#	0	10.0	1977	9	16.5	1977	5	1983	22	1	1983	2.0	1.7	.5	.2	@	.7	.2	.1	.0
Feb	3.7	1.4	#	0	14.0	1993	16	20.5	1993	8	1980	8	3	1980	1.5	1.0	.4	.1	@	1.1	.4	.1	.0
Mar	1.8	.0	0	0	14.0	1994	9	14.0	1994	0	0	0	0	0	.5	.5	.2	.1	@	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.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	.0	0	0	1.5	1993	30	1.5	1993	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Nov	.8	.0	#	0	6.0	1975	26	6.0+	1976	6	1975	26	#+	1980	.2	.2	.1	@	.0	.2	.2	.1	.0
Dec	1.6	.5	#	0	7.5	1984	5	7.5	1984	7	1975	25	#+	2000	.8	.5	.1	.1	.0	.1	.1	.1	.0
Ann	12.6	4.3	N/A	N/A	14.0+	Mar 1994	9	20.5	Feb 1993	8	Feb 1980	8	3	Feb 1980	5.0	3.9	1.3	.5	@	2.1	.9	.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	4/30	4/25	4/22	4/19	4/16	4/13	4/10	4/07	4/02
32	4/20	4/15	4/11	4/08	4/05	4/02	3/30	3/26	3/21
28	4/10	4/05	4/01	3/29	3/26	3/22	3/19	3/15	3/10
24	3/31	3/24	3/19	3/15	3/11	3/08	3/03	2/27	2/20
20	3/19	3/11	3/06	3/01	2/25	2/21	2/16	2/10	2/03
16	3/09	3/02	2/24	2/20	2/16	2/11	2/07	2/01	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	10/03	10/07	10/10	10/13	10/16	10/18	10/22	10/27
32	10/07	10/13	10/18	10/22	10/25	10/29	11/02	11/06	11/12
28	10/22	10/28	11/02	11/05	11/09	11/12	11/16	11/20	11/26
24	11/02	11/08	11/13	11/16	11/20	11/23	11/27	12/01	12/08
20	11/10	11/17	11/22	11/26	11/30	12/04	12/09	12/14	12/21
16	11/17	11/25	11/30	12/05	12/10	12/15	12/20	12/26	1/03

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	201	193	188	183	179	175	170	165	158
32	226	218	212	207	202	198	193	187	179
28	251	243	237	232	228	223	218	212	204
24	280	271	264	258	253	247	242	235	226
20	309	298	290	284	278	272	265	257	247
16	331	318	309	302	295	289	282	274	262

***** 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	977	733	525	251	87	6	0	4	36	207	551	872	4249
60	822	597	381	142	32	0	0	0	9	103	411	718	3215
57	731	519	300	92	14	0	0	0	3	61	331	630	2681
55	676	467	251	65	8	0	0	0	1	41	282	573	2364
50	531	345	151	22	1	0	0	0	0	12	179	433	1674
32	150	65	6	0	0	0	0	0	0	0	11	91	323

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	196	257	506	757	1043	1247	1448	1413	1134	840	451	242	9534
55	9	14	38	133	338	557	735	700	444	169	33	11	3181
57	3	10	25	99	282	497	673	638	386	127	21	6	2767
60	0	4	12	59	207	407	580	545	303	76	11	1	2205
65	0	0	1	19	106	263	425	394	180	24	1	0	1413
70	0	0	0	4	41	138	274	255	90	4	0	0	806

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	75	151	320	553	820	1030	1222	1190	916	625	282	104	75	226	546	1099	1919	2949	4171	5361	6277	6902	7184	7288
45	33	83	204	408	665	880	1067	1035	766	471	179	50	33	116	320	728	1393	2273	3340	4375	5141	5612	5791	5841
50	12	40	119	278	510	730	912	880	616	327	101	21	12	52	171	449	959	1689	2601	3481	4097	4424	4525	4546
55	1	13	61	171	357	580	757	725	466	202	49	7	1	14	75	246	603	1183	1940	2665	3131	3333	3382	3389
60	0	0	25	85	220	430	602	570	328	102	15	0	0	0	25	110	330	760	1362	1932	2260	2362	2377	2377
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	55	106	208	349	529	704	826	802	608	398	171	70	55	161	369	718	1247	1951	2777	3579	4187	4585	4756	4826

(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