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: NIMROD DAM, AR **COOP ID: 035200**

Climate Division: AR 5 **NWS Call Sign:** **Elevation: 480 Feet** **Lat: 34˚57N** **Lon: 93˚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	48.1	26.7	37.4	80+	1950	26	44.6	1990	-11	1962	12	26.4	1979	856	0	.0	.0	14.1	3.4	23.3	.2
Feb	54.5	30.3	42.4	87	1962	13	49.9	2000	-9+	1951	2	30.5	1978	633	0	.0	.0	18.5	1.8	17.3	.1
Mar	63.0	38.7	50.9	89	1963	29	55.1	1985	11	1980	2	44.8	1975	443	4	.0	.0	27.0	.1	9.6	.0
Apr	72.2	46.9	59.6	94	1987	21	64.5	1981	25+	1951	17	54.2	1983	189	26	.0	.3	29.5	.0	1.5	.0
May	79.1	56.6	67.9	98	1951	31	73.0	1991	34+	1954	4	62.2	1981	58	146	.0	1.1	31.0	.0	.0	.0
Jun	86.6	65.1	75.9	106	1952	29	80.5	1998	45+	1970	3	71.3	1974	2	328	.3	9.9	30.0	.0	.0	.0
Jul	92.0	69.4	80.7	111	1954	14	86.9	1980	50	1972	6	77.1	1988	0	487	3.0	21.4	31.0	.0	.0	.0
Aug	91.5	67.3	79.4	110	1964	5	86.4	2000	43+	1986	29	74.4	1986	2	448	3.6	19.3	31.0	.0	.0	.0
Sep	83.6	60.2	71.9	109	2000	1	78.0	1998	37+	1983	22	65.1	1974	21	229	.7	7.7	30.0	.0	.0	.0
Oct	73.8	48.2	61.0	102	1953	1	66.0	1971	20	1952	29	55.4	1987	163	40	.0	.5	30.8	.0	1.5	.0
Nov	61.0	37.9	49.5	86+	1950	1	55.4	1999	11+	1970	24	42.2	1976	470	4	.0	.0	25.4	.1	10.6	.0
Dec	51.1	30.1	40.6	81	1956	6	49.2	1984	-3+	1983	30	30.0	1983	757	0	.0	.0	17.7	1.9	20.9	.2
Ann	71.4	48.1	59.8	111	Jul 1954	14	86.9	Jul 1980	-11	Jan 1962	12	26.4	Jan 1979	3594	1712	7.6	60.2	316.0	7.3	84.7	.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: 1948-2001

(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	3.10	2.84	4.10+	1956	29	6.66	1990	.45	1986
Feb	3.51	2.91	3.45	1990	15	8.95	1989	.84	1972
Mar	4.90	4.17	3.75	1977	28	10.86	1973	1.61	1993
Apr	4.57	4.49	4.06	1997	4	9.56	1991	.90	1987
May	5.10	4.66	4.82	1990	2	13.10	1990	1.35	1988
Jun	4.19	3.82	3.42	1983	29	9.63	2000	1.05	1980
Jul	3.26	2.75	4.80	1956	9	8.95	1989	.55	1985
Aug	2.81	2.56	4.90	1957	13	12.27	1986	.45	1980
Sep	3.84	3.77	5.60	1965	22	7.86	1996	.19	1982
Oct	4.45	3.50	5.15	1984	20	22.37	1984	1.24	1978
Nov	5.17	4.43	7.75	1985	27	13.34	1996	.97	1999
Dec	4.93	4.97	10.40	1982	3	15.78	1982	.71	1981
Ann	49.83	48.88	10.40	Dec 1982	3	22.37	Oct 1984	.19	Sep 1982

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.7	5.9	2.4	.6
Feb	7.4	5.5	2.5	1.0
Mar	8.3	7.0	3.6	1.5
Apr	8.1	6.4	2.9	1.5
May	9.9	7.8	3.6	1.6
Jun	8.5	6.6	3.1	1.3
Jul	6.9	5.4	2.2	.9
Aug	6.4	4.8	1.8	.8
Sep	6.9	5.4	3.0	1.2
Oct	6.5	5.0	2.7	1.4
Nov	7.5	5.9	3.3	1.7
Dec	7.9	6.3	3.2	1.5
Ann	92.0	72.0	34.3	15.0

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	.84	1.13	1.58	1.97	2.36	2.76	3.21	3.74	4.43	5.51	6.52
Feb	.79	1.12	1.63	2.10	2.56	3.05	3.60	4.26	5.12	6.50	7.80
Mar	1.77	2.23	2.89	3.45	3.98	4.53	5.12	5.81	6.69	8.05	9.29
Apr	1.31	1.74	2.39	2.96	3.52	4.10	4.74	5.49	6.47	8.01	9.44
May	1.59	2.08	2.79	3.41	4.01	4.63	5.30	6.10	7.13	8.73	10.21
Jun	1.20	1.60	2.20	2.72	3.23	3.76	4.35	5.04	5.93	7.33	8.64
Jul	.60	.89	1.37	1.81	2.27	2.75	3.31	3.98	4.87	6.30	7.66
Aug	.44	.68	1.08	1.47	1.87	2.31	2.82	3.43	4.26	5.60	6.88
Sep	.61	.94	1.49	2.02	2.57	3.17	3.85	4.68	5.80	7.62	9.36
Oct	.86	1.26	1.91	2.51	3.12	3.78	4.52	5.42	6.61	8.52	10.33
Nov	1.10	1.57	2.33	3.02	3.71	4.45	5.28	6.28	7.60	9.70	11.69
Dec	1.16	1.62	2.35	2.99	3.63	4.31	5.06	5.97	7.15	9.03	10.80
Ann	34.29	37.26	41.08	44.00	46.60	49.12	51.73	54.62	58.14	63.26	67.71

\+ 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)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	1.9	.1	#	0
Feb	1.0	.0	#	0
Mar	.3	.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	.2	.0	#	0
Dec	.5	.0	#	0
Ann	3.9	.1	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	9.0	2000	28	9.0	2000	15	1988	8	3	1988
Feb	6.0	1978	18	7.0	1978	6	1978	18	2	1986
Mar	4.0	1975	14	4.0	1975	4	1975	14	#+	1994
Apr	.0	0	0	.0	0	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	.0	0	0	.0	0	0	0	0	0	0
Nov	2.5	1975	27	2.5	1975	2	1976	14	#+	1980
Dec	7.0	1975	26	8.0	1975	8	1975	26	1	1975
Ann	9.0	Jan 2000	28	9.0	Jan 2000	15	Jan 1988	8	3	Jan 1988

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.7	.3	.2	@	.0
Feb	.6	.4	.2	.2	.0
Mar	.1	.1	@	.0	.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	.1	.1	.0	.0	.0
Dec	.3	.2	@	@	.0
Ann	1.8	1.1	.4	.2	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.2	.1	.0	.0
Feb	.2	.1	.1	.0
Mar	@	@	.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	.1	.0	.0	.0
Dec	.3	.1	.1	.0
Ann	.8	.3	.2	.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	4/28	4/23	4/19	4/15	4/12	4/09	4/06	4/02	3/28
32	4/15	4/10	4/07	4/04	4/01	3/29	3/26	3/22	3/17
28	4/09	4/03	3/29	3/26	3/22	3/19	3/15	3/11	3/05
24	3/21	3/14	3/09	3/05	3/02	2/26	2/22	2/17	2/10
20	3/10	3/03	2/25	2/21	2/16	2/12	2/07	2/02	1/26
16	3/05	2/24	2/17	2/11	2/06	1/31	1/25	1/17	1/03

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	10/06	10/11	10/14	10/17	10/20	10/23	10/26	10/29	11/03
32	10/14	10/20	10/24	10/28	10/31	11/03	11/07	11/11	11/17
28	10/25	10/31	11/05	11/09	11/12	11/16	11/20	11/24	11/30
24	11/07	11/13	11/18	11/22	11/25	11/29	12/03	12/07	12/14
20	11/11	11/22	11/30	12/06	12/13	12/19	12/26	1/02	1/13
16	11/19	12/01	12/10	12/17	12/24	1/01	1/09	1/19	2/07

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	210	203	198	194	190	186	181	176	170
32	237	228	223	217	213	208	203	197	189
28	259	251	244	239	234	229	224	218	209
24	296	287	280	274	268	262	256	249	240
20	332	316	307	300	294	288	282	275	265
16	>365	>365	339	326	317	309	301	291	279

***** 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	856	633	443	189	58	2	0	2	21	163	470	757	3594
60	702	501	302	92	18	0	0	0	4	75	333	604	2631
57	616	423	228	52	7	0	0	0	1	42	259	518	2146
55	557	373	185	33	4	0	0	0	0	26	215	460	1853
50	416	260	100	7	0	0	0	0	0	6	126	326	1241
32	79	31	2	0	0	0	0	0	0	0	4	40	156

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	245	321	586	826	1111	1316	1510	1469	1198	900	528	306	10316
55	11	20	57	169	401	626	797	756	508	213	49	13	3620
57	7	14	37	128	343	566	735	694	448	167	33	9	3181
60	0	7	19	78	260	476	642	601	362	107	17	2	2571
65	0	0	4	26	146	328	487	448	229	40	4	0	1712
70	0	0	0	5	66	192	336	305	125	9	0	0	1038

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	89	173	359	586	857	1064	1246	1213	956	653	309	127	89	262	621	1207	2064	3128	4374	5587	6543	7196	7505	7632
45	43	94	235	441	702	914	1091	1058	806	503	196	65	43	137	372	813	1515	2429	3520	4578	5384	5887	6083	6148
50	18	45	137	302	547	764	936	903	656	356	113	31	18	63	200	502	1049	1813	2749	3652	4308	4664	4777	4808
55	4	17	70	182	393	614	781	748	507	222	56	12	4	21	91	273	666	1280	2061	2809	3316	3538	3594	3606
60	0	0	30	91	249	464	626	593	364	118	20	1	0	0	30	121	370	834	1460	2053	2417	2535	2555	2556
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	68	131	232	370	555	724	835	806	630	424	201	89	68	199	431	801	1356	2080	2915	3721	4351	4775	4976	5065

(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