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: GREERS FERRY DAM, AR **COOP ID: 032978**

Climate Division: AR 2 **NWS Call Sign:** **Elevation: 527 Feet** **Lat: 35˚31N** **Lon: 92˚00W**

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	45.6	26.2	35.9	78+	1986	21	43.1	1990	-7+	1985	20	25.0	1977	904	0	.0	.0	12.8	3.7	24.0	.3
Feb	52.0	30.0	41.0	82	1982	24	48.6	1976	2+	1981	11	30.1	1978	673	0	.0	.0	17.4	2.1	17.8	.0
Mar	60.7	38.6	49.7	88	1967	13	54.6	1974	12+	1971	4	43.3	1971	478	2	.0	.0	26.1	.2	10.1	.0
Apr	70.2	47.0	58.6	94+	1987	21	65.6	1981	26+	1971	2	52.9	1983	214	21	.0	.1	29.5	.0	1.8	.0
May	77.4	55.9	66.7	97	1977	31	72.2	1987	35	1971	4	61.5	1971	76	128	.0	1.1	31.0	.0	.0	.0
Jun	85.4	64.7	75.1	103	1988	24	78.9	1977	46+	1966	1	70.7	1974	3	303	.3	9.9	30.0	.0	.0	.0
Jul	90.9	69.3	80.1	110	1980	31	85.8	1980	50+	1971	31	76.2	1994	0	468	2.0	21.5	31.0	.0	.0	.0
Aug	90.5	67.5	79.0	111	1980	1	84.7+	2000	49+	1971	1	73.6	1992	1	435	2.8	19.5	31.0	.0	.0	.0
Sep	83.2	60.5	71.9	108	2000	3	77.4	1998	35+	1967	29	66.2	1974	16	220	.6	7.6	30.0	.0	.0	.0
Oct	72.9	48.5	60.7	95	1963	9	65.2	1973	24+	1981	24	55.6	1976	170	37	.0	.3	30.8	.0	.8	.0
Nov	59.3	38.8	49.1	89	1964	16	55.9	1999	8	1970	24	41.3	1976	481	2	.0	.0	24.4	@	9.0	.0
Dec	49.0	30.0	39.5	77	1970	2	47.1	1984	-5+	1989	23	27.5	1983	792	0	.0	.0	16.7	1.9	19.5	.2
Ann	69.8	48.1	58.9	111	Aug 1980	1	85.8	Jul 1980	-7+	Jan 1985	20	25.0	Jan 1977	3808	1616	5.7	60.0	310.7	7.9	83.0	.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: 1960-2001

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

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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	3.30	3.20	4.30	1969	30	8.34	1982	.21	1986
Feb	3.59	3.34	3.13	1989	15	9.95	1989	.78	1996
Mar	5.05	4.57	4.35	1977	28	14.36	1975	1.93	1971
Apr	5.02	4.77	4.60	1997	5	12.36	1991	.64	1987
May	5.00	4.45	4.63	1983	3	10.63	1979	1.32	1977
Jun	3.87	3.58	3.43	1990	22	8.90	1976	.23	1984
Jul	3.42	3.10	5.54	1971	24	11.67	1971	.22	1980
Aug	2.90	2.41	4.77	1977	13	9.50	1977	.51	1995
Sep	4.10	3.42	5.28	1977	25	12.20	1977	.88	1999
Oct	4.21	3.73	3.03	1973	13	14.54	1984	.80	1992
Nov	5.92	6.21	5.09	1994	5	12.45	1996	.95	1976
Dec	4.68	4.26	3.70	1982	4	12.58	1982	1.16	1981
Ann	51.06	49.27	5.54	Jul 1971	24	14.54	Oct 1984	.21	Jan 1986

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.4	5.6	2.1	.8
Feb	7.3	5.4	2.3	.9
Mar	10.3	7.4	3.5	1.4
Apr	9.5	6.7	3.4	1.6
May	10.8	7.3	3.5	1.7
Jun	9.3	6.1	3.0	1.0
Jul	7.7	4.9	2.3	.9
Aug	7.7	5.0	1.7	.7
Sep	8.0	5.4	2.6	1.2
Oct	7.8	5.2	2.9	1.5
Nov	9.2	6.4	3.7	2.0
Dec	9.5	6.2	3.1	1.3
Ann	105.5	71.6	34.1	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	.72	1.03	1.51	1.95	2.39	2.86	3.38	4.01	4.84	6.16	7.41
Feb	.97	1.31	1.83	2.29	2.73	3.20	3.72	4.33	5.14	6.39	7.56
Mar	1.73	2.21	2.91	3.49	4.06	4.64	5.27	6.01	6.96	8.43	9.78
Apr	1.45	1.93	2.65	3.27	3.88	4.51	5.21	6.03	7.10	8.78	10.34
May	1.56	2.03	2.74	3.34	3.93	4.54	5.21	5.99	7.00	8.58	10.04
Jun	.95	1.32	1.88	2.38	2.88	3.41	3.99	4.69	5.60	7.04	8.39
Jul	.53	.82	1.32	1.79	2.28	2.81	3.42	4.17	5.17	6.80	8.36
Aug	.54	.79	1.22	1.61	2.02	2.45	2.94	3.54	4.33	5.61	6.82
Sep	.90	1.28	1.88	2.43	2.97	3.55	4.20	4.98	6.00	7.63	9.17
Oct	.87	1.26	1.88	2.44	3.01	3.61	4.30	5.12	6.21	7.94	9.59
Nov	1.34	1.89	2.75	3.53	4.31	5.14	6.07	7.18	8.64	10.96	13.14
Dec	1.28	1.73	2.40	2.99	3.57	4.17	4.84	5.64	6.67	8.29	9.80
Ann	36.57	39.39	42.99	45.72	48.14	50.49	52.90	55.57	58.81	63.50	67.55

\+ 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: 1960-2001
(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	1.1	.0	#	0
Feb	3.3	.0	#	0
Mar	.1	.0	#	0
Apr	#	.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	#	.0	#	0
Ann	4.7	.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	3.0	1973	7	4.5	1973	8	1977	10	1+	1978
Feb	15.0	1979	25	18.8	1979	4	1978	18	#+	1989
Mar	.5	1980	1	.5	1980	1	1980	1	#+	1980
Apr	#	1973	10	#	1973	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	2.0	1976	14	2.0	1976	#	1976	28	#	1976
Dec	#	1974	2	#+	1974	#+	2000	14	#+	2000
Ann	15.0	Feb 1979	25	18.8	Feb 1979	8	Jan 1977	10	1+	Jan 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.4	.3	.1	.0	.0
Feb	.5	.5	.3	.1	.1
Mar	.1	.0	.0	.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	.0	.0	.0	.0	.0
Ann	1.1	.9	.4	.1	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.1	.1	.0
Feb	.1	.1	.0	.0
Mar	.0	.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	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	.2	.2	.1	.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	4/29	4/24	4/21	4/18	4/16	4/13	4/10	4/07	4/03
32	4/16	4/12	4/08	4/06	4/03	4/01	3/29	3/26	3/21
28	4/05	3/31	3/27	3/24	3/21	3/18	3/15	3/12	3/07
24	3/24	3/17	3/12	3/07	3/03	2/27	2/23	2/18	2/11
20	3/10	3/03	2/26	2/21	2/17	2/13	2/09	2/04	1/27
16	3/12	2/28	2/20	2/13	2/06	1/30	1/22	1/13	12/30

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	10/08	10/12	10/16	10/18	10/21	10/23	10/26	10/29	11/03
32	10/18	10/24	10/28	10/31	11/03	11/06	11/10	11/14	11/19
28	10/30	11/04	11/09	11/12	11/16	11/19	11/22	11/27	12/02
24	11/06	11/12	11/17	11/21	11/25	11/28	12/02	12/07	12/13
20	11/10	11/21	11/29	12/06	12/12	12/18	12/25	1/02	1/13
16	11/21	12/03	12/11	12/18	12/24	12/31	1/07	1/16	1/30

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	206	200	195	191	188	184	180	175	169
32	235	227	222	218	213	209	205	200	192
28	264	255	249	244	239	234	229	222	214
24	291	282	276	271	266	261	256	249	241
20	330	317	308	301	294	288	281	273	262
16	>365	>365	334	322	313	305	297	288	276

***** 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	904	673	478	214	76	3	0	1	16	170	481	792	3808
60	749	538	335	110	27	0	0	0	2	80	342	639	2822
57	658	460	257	65	12	0	0	0	0	45	266	553	2316
55	602	409	212	43	7	0	0	0	0	29	220	496	2018
50	459	291	120	11	0	0	0	0	0	7	127	360	1375
32	100	40	3	0	0	0	0	0	0	0	4	57	204

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	220	291	550	797	1074	1290	1491	1457	1195	889	515	288	10057
55	9	16	46	150	368	600	778	744	505	205	41	14	3476
57	2	11	29	113	312	540	716	682	445	159	26	9	3044
60	0	5	14	68	233	450	623	589	357	101	13	3	2456
65	0	0	2	21	128	303	468	435	220	37	2	0	1616
70	0	0	0	4	55	167	313	290	112	8	0	0	949

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	81	157	336	569	843	1067	1255	1216	961	649	308	121	81	238	574	1143	1986	3053	4308	5524	6485	7134	7442	7563
45	37	84	214	425	688	917	1100	1061	811	497	195	58	37	121	335	760	1448	2365	3465	4526	5337	5834	6029	6087
50	14	34	125	286	534	767	945	906	661	352	111	24	14	48	173	459	993	1760	2705	3611	4272	4624	4735	4759
55	0	10	60	171	381	617	790	751	513	216	56	9	0	10	70	241	622	1239	2029	2780	3293	3509	3565	3574
60	0	0	26	84	238	467	635	596	367	117	18	0	0	0	26	110	348	815	1450	2046	2413	2530	2548	2548
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	61	117	216	357	548	727	848	811	634	415	191	82	61	178	394	751	1299	2026	2874	3685	4319	4734	4925	5007

(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