

Climatography of the United States No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: GREENBRIER, AR

1971-2000

COOP ID: 032962

Climate Division: AR 5

NWS Call Sign:

Elevation: 330 Feet

Lat: 35°14N

Lon: 92°22W

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	47.4	24.2	35.8	77+	1969	8	41.6	1990	-11+	1962	11	25.7	1979	905	0	.0	.0	14.5	2.9	23.1	.4
Feb	54.0	28.3	41.2	86+	1962	12	49.6	1976	-7	1985	3	29.6	1978	667	0	.0	.0	19.5	1.1	16.7	.1
Mar	62.7	37.2	50.0	92	1974	31	55.9	1974	8	1965	20	43.4	1996	468	1	.0	@	28.2	.1	8.8	.0
Apr	71.3	45.0	58.2	91	1987	30	64.6	1981	22	1989	11	53.4	1993	221	15	.0	.1	29.8	.0	2.1	.0
May	78.8	55.5	67.2	96	1998	31	72.1	1987	33+	1963	1	62.5	1976	63	130	.0	1.2	31.0	.0	.0	.0
Jun	86.7	63.4	75.1	100+	1966	29	78.9	1998	42	1969	3	71.3	1992	2	303	.1	10.9	30.0	.0	.0	.0
Jul	91.8	67.7	79.8	111	1986	31	84.9	1980	49	1972	7	75.7	1989	0	457	2.7	23.0	31.0	.0	.0	.0
Aug	91.5	65.9	78.7	110	2000	31	84.1	1980	44	1986	29	71.7	1992	1	425	2.3	18.1	31.0	.0	.0	.0
Sep	84.2	58.6	71.4	107	2000	1	77.1	1998	32+	1967	29	66.4	1974	27	219	.7	8.0	30.0	.0	@	.0
Oct	74.4	45.8	60.1	97	1963	8	65.8	1971	23	1989	20	54.9	1976	190	37	.0	.6	30.9	.0	2.2	.0
Nov	60.2	35.5	47.9	84	1987	4	53.7	1973	8	1976	29	41.1	1976	515	0	.0	.0	25.4	.1	10.9	.0
Dec	50.5	28.0	39.3	79	1998	5	47.9	1984	-6	1989	23	28.3	1983	798	0	.0	.0	18.1	1.6	19.0	.2
Ann	71.1	46.3	58.7	111	Jul 1986	31	84.9	Jul 1980	-11+	Jan 1962	11	25.7	Jan 1979	3857	1587	5.8	61.9	319.4	5.8	82.8	.7

+ 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

Issue Date: February 2004

(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

035-A

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COOP ID: 032962

Climate Division: AR 5

NWS Call Sign:

Elevation: 330 Feet Lat: 35°14N

Lon: 92°22W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	3.12	2.88	4.49	1969	30	7.53	1982	.34	1986	8.8	5.7	1.9	.7	.73	1.02	1.48	1.89	2.30	2.73	3.21	3.78	4.54	5.73	6.86
Feb	3.29	2.78	3.57	1984	11	8.98	1989	.84	1972	7.6	5.0	2.3	1.1	.93	1.24	1.71	2.12	2.53	2.95	3.41	3.96	4.67	5.78	6.82
Mar	4.80	3.91	3.52	1949	25	12.29	1973	1.52	1991	9.3	6.8	3.1	1.5	1.50	1.95	2.63	3.21	3.77	4.35	4.99	5.74	6.71	8.22	9.62
Apr	4.97	4.68	4.85	1997	5	11.18	1991	.99	1987	9.4	6.7	3.3	1.4	1.50	1.97	2.68	3.29	3.88	4.49	5.17	5.96	6.99	8.60	10.09
May	4.84	4.84	4.90	1950	7	8.89	1983	1.36	1992	10.1	7.3	3.6	1.8	1.98	2.42	3.05	3.56	4.05	4.54	5.07	5.68	6.46	7.64	8.72
Jun	4.21	3.66	4.10	1960	27	10.23	1976	.94	1985	9.2	6.6	2.9	1.3	1.39	1.79	2.38	2.88	3.36	3.85	4.39	5.02	5.84	7.10	8.26
Jul	3.03	3.26	4.35	1993	22	5.84	1971	.16	1999	7.4	4.6	2.0	1.1	.49	.76	1.20	1.61	2.04	2.51	3.05	3.70	4.58	6.00	7.35
Aug	2.41	2.29	2.48	1965	23	6.17	1986	.17	2000	6.8	4.6	1.5	.5	.52	.74	1.09	1.41	1.73	2.08	2.47	2.93	3.54	4.52	5.45
Sep	3.74	3.56	5.16	1965	22	7.73	1989	.59	1981	8.1	5.4	2.8	1.2	.93	1.29	1.83	2.31	2.79	3.30	3.86	4.53	5.40	6.79	8.08
Oct	4.13	3.93	5.20	1981	18	14.23	1984	.74	1971	7.4	4.9	2.7	1.5	.72	1.09	1.69	2.25	2.83	3.46	4.18	5.04	6.20	8.06	9.85
Nov	5.36	4.80	7.05	1985	26	11.31	1988	.39	1999	8.2	6.4	3.3	1.9	1.13	1.62	2.41	3.12	3.84	4.61	5.47	6.51	7.89	10.08	12.15
Dec	4.48	4.11	5.18	1982	3	12.79	1982	.65	1981	8.8	5.8	2.8	1.4	1.20	1.63	2.27	2.84	3.40	3.98	4.63	5.40	6.41	7.97	9.45
Ann	48.38	46.26	7.05	Nov 1985	26	14.23	Oct 1984	.16	Jul 1999	101.1	69.8	32.2	15.4	35.20	37.77	41.06	43.55	45.76	47.88	50.07	52.49	55.42	59.65	63.30

+ 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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Station: GREENBRIER, AR

COOP ID: 032962

Climate Division: AR 5

NWS Call Sign:

Elevation: 330 Feet

Lat: 35°14N

Lon: 92°22W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	2.4	.0	#	#	13.4	1988	6	15.9	1988	13	1988	7	3	1988	.7	.6	.2	.1	@	1.4	.6	.4	.1
Feb	.7	.0	#	#	3.3	1982	26	4.3	1982	7	1985	1	1	1985	.6	.4	@	.0	.0	.8	.4	.2	.0
Mar	.8	.0	#	0	6.3	1975	14	7.0	1975	6	1975	14	#+	1995	.3	.2	.1	@	.0	.2	@	@	.0
Apr	#	.0	0	0	#	1973	10	#+	1973	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	#	.0	#	0	#	1993	29	#	1993	#	1993	29	#	1993	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.4	.0	#	0	4.0	1971	23	4.9	1971	3	1971	23	#+	1991	.2	.1	@	.0	.0	.1	@	.0	.0
Dec	.5	.0	#	0	4.0	1975	26	5.0	1975	2	1990	26	#+	2000	.5	.3	@	.0	.0	.6	.0	.0	.0
Ann	4.8	.0	N/A	N/A	13.4	Jan 1988	6	15.9	Jan 1988	13	Jan 1988	7	3	Jan 1988	2.3	1.6	.3	.1	@	3.1	1.0	.6	.1

+ 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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Climate Division: AR 5

NWS Call Sign:

Elevation: 330 Feet

Lat: 35° 14N

Lon: 92° 22W

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	5/01	4/27	4/24	4/22	4/19	4/17	4/14	4/11	4/07
32	4/21	4/17	4/14	4/11	4/08	4/06	4/03	3/31	3/27
28	4/10	4/04	3/31	3/28	3/24	3/21	3/17	3/13	3/07
24	4/02	3/26	3/21	3/16	3/12	3/08	3/03	2/26	2/18
20	3/10	3/04	2/28	2/24	2/21	2/17	2/13	2/09	2/03
16	3/04	2/24	2/19	2/14	2/09	2/05	1/31	1/25	1/17
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	9/28	10/02	10/05	10/07	10/10	10/12	10/14	10/17	10/21
32	10/05	10/11	10/15	10/18	10/21	10/24	10/28	11/01	11/06
28	10/19	10/24	10/28	10/31	11/03	11/05	11/08	11/12	11/17
24	10/31	11/06	11/10	11/14	11/17	11/20	11/24	11/28	12/03
20	11/09	11/17	11/22	11/26	11/30	12/05	12/09	12/14	12/22
16	11/19	11/29	12/06	12/12	12/17	12/23	12/29	1/05	1/15
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	190	184	180	176	173	169	166	161	155
32	217	210	204	199	195	191	186	180	173
28	247	238	232	227	223	218	213	207	199
24	279	269	261	255	249	243	237	230	219
20	305	297	292	287	282	278	273	267	259
16	355	335	324	316	308	301	293	284	272

* 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

Complete documentation available from:
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Climate Division: AR 5 NWS Call Sign: Elevation: 330 Feet Lat: 35°14N Lon: 92°22W

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	905	667	468	221	63	2	0	1	27	190	515	798	3857
60	750	531	325	112	19	0	0	0	6	93	373	645	2854
57	657	452	247	65	8	0	0	0	2	55	293	558	2337
55	598	401	201	42	4	0	0	0	0	36	244	501	2027
50	455	282	110	10	0	0	0	0	0	9	143	364	1373
32	88	34	2	0	0	0	0	0	0	0	5	56	185

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	205	290	558	784	1090	1291	1480	1447	1182	870	480	281	9958
55	3	14	44	136	381	601	767	734	492	193	30	12	3407
57	0	9	28	99	323	541	705	672	433	150	19	8	2987
60	0	3	13	56	241	451	612	579	348	95	9	2	2409
65	0	0	1	15	130	303	457	425	219	37	0	0	1587
70	0	0	0	2	54	168	303	280	118	9	0	0	934

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	94	183	382	607	875	1080	1259	1198	968	656	306	134	94	277	659	1266	2141	3221	4480	5678	6646	7302	7608	7742
45	45	98	252	458	720	930	1104	1043	818	502	194	68	45	143	395	853	1573	2503	3607	4650	5468	5970	6164	6232
50	21	49	148	317	565	780	949	888	668	355	110	30	21	70	218	535	1100	1880	2829	3717	4385	4740	4850	4880
55	3	18	73	193	411	630	794	733	519	222	54	12	3	21	94	287	698	1328	2122	2855	3374	3596	3650	3662
60	0	1	30	94	265	480	639	578	375	118	20	1	0	1	31	125	390	870	1509	2087	2462	2580	2600	2601
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	69	131	248	388	578	738	841	800	647	433	199	91	69	200	448	836	1414	2152	2993	3793	4440	4873	5072	5163

(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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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