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: BRINKLEY, AR **COOP ID: 030936**

Climate Division: AR 6 **NWS Call Sign:** **Elevation: 200 Feet** **Lat: 34˚53N** **Lon: 91˚11W**

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	46.3	29.0	37.7	80+	1950	24	45.2	1990	-4	1985	21	25.8	1977	848	0	.0	.0	13.0	4.2	20.5	.1
Feb	52.6	33.1	42.9	81	1962	13	54.5	1976	3+	1985	3	30.4	1978	622	1	.0	.0	17.8	2.2	13.6	.0
Mar	61.4	41.3	51.4	87	1963	31	56.9	1974	14	1965	20	45.5	1980	427	3	.0	.0	26.8	.2	5.7	.0
Apr	70.8	49.8	60.3	92+	1948	27	66.4	1981	28+	1962	16	53.8	1983	176	35	.0	.1	29.4	.0	.7	.0
May	79.1	59.4	69.3	100	1952	6	75.0	1987	37+	1954	4	63.0	1976	47	178	.0	2.2	31.0	.0	.0	.0
Jun	87.0	67.6	77.3	105	1998	23	81.7	1998	45	1966	1	72.3	1974	1	370	.1	13.1	30.0	.0	.0	.0
Jul	90.7	71.4	81.1	109	1952	28	84.7	1980	53+	1963	10	77.3	1994	0	496	1.2	20.9	31.0	.0	.0	.0
Aug	89.6	68.9	79.3	107	1956	6	84.2	1980	50	1986	29	74.3	1992	0	441	.9	18.5	31.0	.0	.0	.0
Sep	83.5	61.6	72.6	103	1954	5	78.0	1998	35+	1967	29	67.0	1974	15	243	.3	8.3	30.0	.0	.0	.0
Oct	74.1	49.5	61.8	96+	1953	1	69.0	1971	20	1952	29	56.2	1976	157	57	.0	.5	30.9	.0	.4	.0
Nov	60.6	40.4	50.5	88	1964	13	55.6	1985	13	1950	25	42.1	1976	438	3	.0	.0	24.8	@	6.8	.0
Dec	50.5	32.8	41.7	82	1951	31	50.9	1984	-7	1963	24	31.1	1983	725	0	.0	.0	16.8	2.3	16.5	.2
Ann	70.5	50.4	60.5	109	Jul 1952	28	84.7	Jul 1980	-7	Dec 1963	24	25.8	Jan 1977	3456	1827	2.5	63.6	312.5	8.9	64.2	.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

(2) Derived from station's available digital record: 1948-2001

(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	3.84	4.12	3.47	1956	29	6.99	1999	.55	1986
Feb	3.84	3.35	4.72	1966	10	11.11	1989	.99	1972
Mar	4.77	4.18	3.70	1975	28	11.29	1975	2.02	1983
Apr	5.19	4.37	5.68	1997	5	13.41	1991	1.00	1989
May	5.70	4.94	4.65	1983	15	13.07	1979	1.59	1988
Jun	4.07	3.76	5.78	1960	27	10.48	1974	.39	1988
Jul	3.15	2.73	3.30	1987	5	7.81	1971	.27	2000
Aug	2.52	2.70	4.20	1970	10	6.71	1979	.00	2000
Sep	3.02	2.35	4.80	1965	11	10.85	1977	.39	1995
Oct	3.58	3.16	3.99	1949	5	12.99	1984	1.05	2000
Nov	4.76	4.64	4.28	1961	22	10.53	1987	1.54	1999
Dec	4.51	3.74	4.23	2001	17	10.46	1987	1.05	1981
Ann	48.95	46.88	5.78	Jun 1960	27	13.41	Apr 1991	.00	Aug 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.2	6.3	2.6	1.2
Feb	7.2	5.5	2.7	1.4
Mar	9.5	7.3	3.2	1.5
Apr	8.3	6.6	3.4	1.9
May	9.0	7.0	3.6	1.9
Jun	7.7	5.9	2.6	1.2
Jul	6.7	4.8	2.1	.9
Aug	5.2	4.2	1.8	.8
Sep	6.7	4.6	2.0	1.0
Oct	6.0	4.8	2.8	1.2
Nov	8.2	6.0	3.3	1.7
Dec	8.1	6.3	3.0	1.6
Ann	91.8	69.3	33.1	16.3

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	1.10	1.46	2.01	2.49	2.96	3.44	3.98	4.61	5.43	6.72	7.92
Feb	1.10	1.47	2.01	2.49	2.96	3.44	3.98	4.61	5.43	6.72	7.92
Mar	1.94	2.37	2.99	3.50	3.98	4.47	4.99	5.60	6.37	7.54	8.61
Apr	1.24	1.73	2.49	3.16	3.84	4.55	5.34	6.29	7.53	9.49	11.34
May	1.77	2.31	3.12	3.81	4.48	5.17	5.93	6.82	7.98	9.77	11.44
Jun	.98	1.36	1.95	2.48	3.01	3.57	4.19	4.93	5.90	7.44	8.89
Jul	.46	.72	1.18	1.61	2.07	2.57	3.14	3.85	4.79	6.34	7.82
Aug	.20	.47	.88	1.25	1.63	2.05	2.53	3.12	3.90	5.18	6.41
Sep	.56	.82	1.27	1.68	2.10	2.55	3.06	3.68	4.50	5.83	7.10
Oct	.93	1.27	1.79	2.25	2.70	3.17	3.70	4.33	5.14	6.43	7.63
Nov	1.55	2.00	2.66	3.23	3.78	4.34	4.96	5.69	6.62	8.07	9.41
Dec	1.43	1.86	2.50	3.04	3.56	4.11	4.70	5.40	6.30	7.70	8.99
Ann	36.16	38.67	41.87	44.29	46.42	48.48	50.60	52.93	55.75	59.83	63.33

\+ 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)

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	2.2	2.0	#	#	9.0	1988	8	12.0	1988	12	1988	8	2	1988	.8	.7	.2	.1	.0	1.4	.5	.2	.1
Feb	1.3	.0	#	0	8.0	1979	7	10.0	1979	8	1979	7	2	1985	.6	.5	.1	.1	.0	1.0	.4	.3	.0
Mar	.4	.0	#	0	4.0	1984	10	4.0	1984	3	1975	14	#+	1995	.2	.2	.1	.0	.0	.1	@	.0	.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	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.2	.0	#	0	3.0	1971	23	3.0	1971	3	1971	23	#+	1991	.1	.1	@	.0	.0	.1	@	.0	.0
Dec	.2	.0	#	0	1.5	1983	27	4.0	1983	3	1983	27	1	1983	.2	.2	.0	.0	.0	.5	.1	.0	.0
Ann	4.3	2.0	N/A	N/A	9.0	Jan 1988	8	12.0	Jan 1988	12	Jan 1988	8	2+	Jan 1988	1.9	1.7	.4	.2	.0	3.1	1.0	.5	.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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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	4/14	4/11	4/08	4/05	4/03	4/01	3/29	3/27	3/23
32	4/11	4/05	4/01	3/29	3/26	3/23	3/20	3/16	3/10
28	3/27	3/20	3/15	3/10	3/06	3/02	2/26	2/21	2/14
24	3/12	3/04	2/26	2/21	2/17	2/12	2/07	2/01	1/25
20	3/12	2/28	2/20	2/13	2/06	1/30	1/23	1/14	1/03
16	2/25	2/16	2/08	2/02	1/27	1/20	1/13	1/01	0/00

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	10/11	10/16	10/19	10/23	10/25	10/28	11/01	11/04	11/09
32	10/25	10/30	11/03	11/06	11/09	11/12	11/16	11/19	11/25
28	11/06	11/11	11/16	11/19	11/23	11/26	11/30	12/04	12/10
24	11/09	11/18	11/24	11/30	12/05	12/09	12/15	12/21	12/30
20	11/19	11/30	12/09	12/16	12/22	12/29	1/05	1/13	1/25
16	12/14	12/21	12/27	1/01	1/06	1/11	1/17	1/26	0/00

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	224	218	213	209	205	201	197	192	185
32	251	243	237	232	228	223	218	212	204
28	287	278	272	266	261	255	250	243	234
24	330	317	307	298	290	282	274	264	250
20	>365	344	327	317	310	303	296	288	277
16	>365	>365	>365	>365	348	337	327	317	305

***** 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	848	622	427	176	47	1	0	0	15	157	438	725	3456
60	696	492	287	84	14	0	0	0	3	75	302	578	2531
57	611	416	213	47	6	0	0	0	0	43	229	492	2057
55	553	368	171	29	3	0	0	0	0	27	186	436	1773
50	416	260	89	6	0	0	0	0	0	7	101	309	1188
32	86	36	2	0	0	0	0	0	0	0	2	42	168

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	261	340	601	849	1154	1359	1519	1464	1218	923	556	340	10584
55	15	27	58	188	444	669	806	751	528	237	51	21	3795
57	11	20	38	146	385	609	744	689	468	190	34	15	3349
60	3	12	18	93	300	519	651	596	380	130	17	8	2727
65	0	1	3	35	178	370	496	441	243	57	3	0	1827
70	0	0	0	9	88	226	341	292	131	18	0	0	1105

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	100	189	382	623	925	1136	1289	1229	990	684	338	155	100	289	671	1294	2219	3355	4644	5873	6863	7547	7885	8040
45	51	105	255	477	770	986	1134	1074	840	531	222	82	51	156	411	888	1658	2644	3778	4852	5692	6223	6445	6527
50	20	52	147	337	615	836	979	919	690	380	129	36	20	72	219	556	1171	2007	2986	3905	4595	4975	5104	5140
55	4	21	74	211	460	686	824	764	540	243	67	13	4	25	99	310	770	1456	2280	3044	3584	3827	3894	3907
60	0	2	28	116	310	536	669	609	396	141	28	2	0	2	30	146	456	992	1661	2270	2666	2807	2835	2837
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	63	112	221	380	607	787	885	843	662	439	199	83	63	175	396	776	1383	2170	3055	3898	4560	4999	5198	5281

(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