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: BEEDEVILLE 4 NE, AR **COOP ID: 030536**

Climate Division: AR 3 **NWS Call Sign:** **Elevation: 240 Feet** **Lat: 35˚28N** **Lon: 91˚03W**

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	44.8	29.2	37.0	75+	1967	23	44.6	1990	-6	1985	20	25.0	1977	868	0	.0	.0	12.4	3.8	20.1	.3
Feb	51.6	33.7	42.7	80	1986	26	50.4	1976	2+	1985	3	30.5	1978	626	0	.0	.0	17.6	1.6	13.0	.0
Mar	61.2	42.0	51.6	85	1967	11	56.8	1974	13	1996	8	46.1	1996	423	7	.0	.0	27.4	.2	5.4	.0
Apr	71.0	50.4	60.7	94+	1987	20	66.1	1981	27+	1987	4	54.1	1983	169	41	.0	.1	29.8	.0	.7	.0
May	79.2	59.7	69.5	96	1998	31	74.3	1998	34	1994	2	64.3	1994	45	183	.0	2.5	31.0	.0	.0	.0
Jun	87.0	67.9	77.5	104+	1969	30	80.9	1998	47+	1966	1	72.6	1974	1	374	.5	14.3	30.0	.0	.0	.0
Jul	90.9	71.5	81.2	112	1980	13	86.4	1980	53	1968	4	78.0	1989	0	503	2.6	22.8	31.0	.0	.0	.0
Aug	89.6	68.5	79.1	107	1964	4	83.0	2000	48	1986	29	73.9	1992	0	435	1.9	20.7	31.0	.0	.0	.0
Sep	82.8	61.2	72.0	104	1980	9	77.5	1998	33	1967	29	66.1	1974	23	232	.5	8.1	30.0	.0	.0	.0
Oct	73.1	49.7	61.4	95	1969	4	68.1	1971	25	1981	24	56.4	1976	162	51	.0	.7	30.9	.0	.6	.0
Nov	59.2	41.1	50.2	85+	1971	2	55.4	1999	12	1970	24	43.2	1976	450	3	.0	.0	24.7	.1	6.5	.0
Dec	48.7	32.8	40.8	78	1982	2	49.2	1984	-5	1989	23	29.7	2000	753	0	.0	.0	16.0	2.0	16.1	.1
Ann	69.9	50.6	60.3	112	Jul 1980	13	86.4	Jul 1980	-6	Jan 1985	20	25.0	Jan 1977	3520	1829	5.5	69.2	311.8	7.7	62.4	.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: 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	3.73	3.03	5.05	1969	29	9.07	1978	.49	1986
Feb	3.45	3.11	3.85	1959	14	8.45	1990	.91	1999
Mar	4.90	4.58	4.37	1990	7	10.19	1975	1.94	1982
Apr	4.95	4.16	4.50+	1974	22	13.72	1991	.55	1987
May	4.98	4.85	4.20	1990	20	9.23	1990	2.14	1972
Jun	3.97	3.42	4.43	1974	7	11.84	1976	.55	1995
Jul	2.60	2.41	3.99	1953	17	8.00	1971	.21	1983
Aug	2.21	2.06	4.17	1951	18	6.66	1978	.00	2000
Sep	3.75	2.57	8.19	1978	14	14.83	1978	.13	1981
Oct	3.62	3.03	4.42	2001	11	9.04	1990	.38	1971
Nov	5.36	5.24	5.96	1985	27	14.30	1988	1.24	1976
Dec	4.74	3.98	6.38	1987	26	11.99	1978	.81	1981
Ann	48.26	45.80	8.19	Sep 1978	14	14.83	Sep 1978	.00	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.2	5.2	2.4	1.1
Feb	5.6	4.4	2.5	1.1
Mar	7.3	6.3	3.3	1.5
Apr	7.0	5.9	3.2	1.7
May	7.5	6.3	3.6	1.6
Jun	6.2	5.7	2.9	1.3
Jul	4.9	4.2	1.9	.9
Aug	4.0	3.5	1.6	.6
Sep	5.3	4.5	2.0	1.1
Oct	5.3	4.3	2.7	1.4
Nov	6.7	5.9	3.6	1.8
Dec	6.3	5.2	3.0	1.5
Ann	72.3	61.4	32.7	15.6

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	.89	1.24	1.78	2.27	2.75	3.26	3.83	4.51	5.41	6.82	8.15
Feb	.94	1.27	1.76	2.20	2.63	3.07	3.57	4.16	4.92	6.12	7.24
Mar	1.83	2.28	2.94	3.49	4.01	4.55	5.12	5.80	6.65	7.97	9.17
Apr	1.32	1.79	2.51	3.14	3.75	4.40	5.12	5.97	7.09	8.83	10.47
May	2.64	3.04	3.58	4.02	4.41	4.80	5.22	5.69	6.27	7.14	7.92
Jun	.84	1.20	1.78	2.31	2.85	3.42	4.06	4.83	5.84	7.46	9.00
Jul	.32	.52	.89	1.25	1.64	2.06	2.56	3.18	4.01	5.39	6.72
Aug	.16	.38	.74	1.06	1.40	1.78	2.21	2.73	3.44	4.61	5.73
Sep	.24	.47	.94	1.45	2.03	2.70	3.51	4.55	5.99	8.43	10.85
Oct	.72	1.05	1.58	2.07	2.56	3.09	3.69	4.40	5.36	6.88	8.33
Nov	1.62	2.13	2.89	3.54	4.18	4.84	5.57	6.43	7.54	9.27	10.87
Dec	1.18	1.62	2.31	2.93	3.53	4.17	4.88	5.73	6.84	8.59	10.24
Ann	34.45	37.13	40.56	43.16	45.47	47.70	50.01	52.55	55.64	60.11	63.98

\+ 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	2.8	2.0	#	0	5.0	1978	12	8.8	1977	11	1988	8	1	1988	1.1	.9	.3	.1	.0	.2	.0	.0	.0
Feb	.9	.0	#	0	6.0	1979	7	6.0	1979	4	1980	8	1	1982	.6	.2	.1	.1	.0	.1	.0	.0	.0
Mar	.3	.0	#	0	2.5	1975	14	3.8	1975	3	1971	3	#+	1987	.3	.1	.0	.0	.0	.0	.0	.0	.0
Apr	#	.0	0	0	#	1973	9	#+	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	#	1989	19	#	1989	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.4	.0	#	0	4.3	1971	23	4.3	1971	#	1976	11	#	1976	.1	.1	.1	.0	.0	.0	.0	.0	.0
Dec	.2	.0	#	0	2.0	1975	26	2.0	1975	2+	1983	19	#+	1990	.2	.1	.0	.0	.0	.1	.0	.0	.0
Ann	4.6	2.0	N/A	N/A	6.0	Feb 1979	7	8.8	Jan 1977	11	Jan 1988	8	1+	Jan 1988	2.3	1.4	.5	.2	.0	.4	.0	.0	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	4/20	4/15	4/12	4/10	4/07	4/05	4/03	3/31	3/26
32	4/13	4/07	4/03	3/30	3/27	3/24	3/20	3/16	3/11
28	4/02	3/26	3/20	3/16	3/12	3/08	3/03	2/26	2/19
24	3/14	3/07	3/02	2/26	2/22	2/18	2/14	2/09	2/03
20	3/06	2/26	2/20	2/14	2/09	2/05	1/30	1/24	1/16
16	2/26	2/17	2/10	2/04	1/30	1/24	1/17	1/08	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	9/29	10/05	10/10	10/13	10/17	10/20	10/23	10/28	11/03
32	10/18	10/24	10/28	11/01	11/04	11/07	11/11	11/15	11/21
28	11/01	11/07	11/11	11/15	11/18	11/22	11/26	11/30	12/06
24	11/07	11/15	11/21	11/26	11/30	12/05	12/10	12/15	12/23
20	11/12	11/24	12/03	12/10	12/17	12/24	12/31	1/09	1/20
16	12/07	12/15	12/22	12/27	1/02	1/07	1/14	1/22	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	212	205	200	195	191	187	183	178	171
32	244	236	230	226	221	216	212	206	198
28	275	267	261	256	251	246	241	235	226
24	311	301	293	286	280	274	267	260	249
20	>365	331	319	311	304	297	290	281	270
16	>365	>365	>365	348	336	327	319	310	299

***** 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	868	626	423	169	45	1	0	0	23	162	450	753	3520
60	714	494	285	82	13	0	0	0	5	76	313	603	2585
57	629	417	214	46	5	0	0	0	1	43	240	516	2111
55	570	367	173	29	3	0	0	0	0	28	197	460	1827
50	431	255	92	7	0	0	0	0	0	6	110	328	1229
32	91	30	1	0	0	0	0	0	0	0	2	46	170

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	246	328	609	861	1161	1363	1526	1458	1200	912	546	317	10527
55	12	21	67	200	450	673	813	745	510	226	50	17	3784
57	9	14	46	157	391	613	751	683	451	180	33	12	3340
60	1	8	24	103	306	523	658	590	365	120	17	5	2720
65	0	0	7	41	183	374	503	435	232	51	3	0	1829
70	0	0	0	11	91	230	348	284	127	15	0	0	1106

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	98	188	393	640	938	1149	1307	1239	982	690	344	148	98	286	679	1319	2257	3406	4713	5952	6934	7624	7968	8116
45	52	106	261	493	783	999	1152	1084	832	535	225	73	52	158	419	912	1695	2694	3846	4930	5762	6297	6522	6595
50	25	53	156	350	629	849	997	929	682	386	132	36	25	78	234	584	1213	2062	3059	3988	4670	5056	5188	5224
55	4	20	78	223	474	699	842	774	532	247	67	12	4	24	102	325	799	1498	2340	3114	3646	3893	3960	3972
60	0	2	34	119	324	549	687	619	388	137	27	1	0	2	36	155	479	1028	1715	2334	2722	2859	2886	2887
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	54	107	232	397	621	790	889	835	657	442	196	82	54	161	393	790	1411	2201	3090	3925	4582	5024	5220	5302

(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