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: BLYTHEVILLE, AR **COOP ID: 030806**

Climate Division: AR 3 **NWS Call Sign:** **Elevation: 252 Feet** **Lat: 35˚55N** **Lon: 89˚54W**

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	44.6	28.3	36.5	79+	1950	25	45.0	1990	-14	1982	17	23.0	1977	886	0	.0	.0	10.1	4.4	20.2	.3
Feb	50.5	32.5	41.5	80+	1930	25	49.7	1976	-3+	1936	18	27.7	1978	657	0	.0	.0	16.0	2.7	13.6	.1
Mar	60.1	41.5	50.8	87	1945	28	56.1	1976	5	1960	5	45.0	1980	443	3	.0	.0	25.7	.2	5.0	.0
Apr	70.7	50.7	60.7	94+	1987	22	67.3	1981	25+	1936	3	54.0	1983	174	45	.0	.2	29.3	.0	.4	.0
May	80.3	60.4	70.4	98+	1951	21	75.9	1977	34	1944	7	65.5	1976	36	201	.0	3.2	31.0	.0	.0	.0
Jun	88.8	68.3	78.6	109	1952	28	82.2	1994	46+	1933	15	73.5	1974	0	407	.7	14.8	30.0	.0	.0	.0
Jul	92.2	72.3	82.3	109+	1952	27	87.9	1980	51	1947	23	78.8	1972	0	534	2.0	22.5	31.0	.0	.0	.0
Aug	90.2	70.2	80.2	107	1930	9	85.0	1983	49	1935	31	75.6	1992	0	470	.8	18.3	31.0	.0	.0	.0
Sep	83.5	62.6	73.1	106	1951	1	79.1	1998	35+	1942	27	67.6	1974	10	252	.1	7.5	30.0	.0	.0	.0
Oct	73.4	51.2	62.3	99	1953	1	68.4	1971	25	1937	24	57.1	1987	146	62	.0	.4	30.9	.0	.3	.0
Nov	59.6	41.6	50.6	88	1964	16	56.4	1999	7	1950	24	42.9	1976	437	5	.0	.0	24.4	.1	4.8	.0
Dec	48.8	32.5	40.7	79+	1951	31	49.6	1984	-7	1989	22	28.8	2000	755	0	.0	.0	15.1	2.8	15.9	.2
Ann	70.2	51.0	60.6	109+	Jul 1952	27	87.9	Jul 1980	-14	Jan 1982	17	23.0	Jan 1977	3544	1979	3.6	66.9	304.5	10.2	60.2	.6

\+ 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: 1930-2001

(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	3.41	3.44	4.65	1946	8	8.70	1999	.90	1986
Feb	3.91	3.41	4.17	1959	14	14.44	1989	1.41	1995
Mar	4.92	4.46	4.94	1975	28	12.85	1975	1.73	1995
Apr	5.25	4.52	4.96	1997	5	11.62	1991	1.80	1992
May	5.22	5.02	3.61	1957	14	9.94	1983	1.97	1988
Jun	4.49	4.54	4.01	1970	15	8.55	1989	.10	1988
Jul	3.95	3.85	4.68	1936	3	11.26	1998	.17	1993
Aug	2.85	2.04	4.30	1978	30	14.09	1974	.17	1996
Sep	3.19	2.60	5.80	1970	19	6.66	1996	.07	1998
Oct	3.58	3.23	5.73	1999	9	8.59	1990	.08	1971
Nov	4.82	4.94	5.00	1988	19	13.26	1988	1.33	1976
Dec	4.73	4.40	4.71	1990	22	14.85	1990	.80	1988
Ann	50.32	49.02	5.80	Sep 1970	19	14.85	Dec 1990	.07	Sep 1998

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.2	6.6	2.5	.7
Feb	8.0	6.2	2.7	1.1
Mar	10.6	8.1	3.3	1.3
Apr	9.5	7.2	3.6	1.8
May	10.3	7.5	3.4	1.7
Jun	8.2	6.5	3.0	1.4
Jul	7.5	5.5	2.6	1.2
Aug	5.9	4.1	1.9	.8
Sep	6.5	4.6	2.1	.9
Oct	6.8	5.0	2.5	1.0
Nov	9.4	6.5	3.3	1.4
Dec	9.5	6.7	3.0	1.4
Ann	102.4	74.5	33.9	14.7

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	1.01	1.33	1.82	2.24	2.65	3.07	3.54	4.09	4.81	5.93	6.97
Feb	1.20	1.57	2.12	2.60	3.06	3.54	4.07	4.69	5.49	6.74	7.90
Mar	1.68	2.14	2.82	3.40	3.95	4.52	5.14	5.86	6.79	8.23	9.55
Apr	1.60	2.10	2.84	3.48	4.10	4.75	5.46	6.29	7.37	9.05	10.61
May	2.02	2.50	3.19	3.77	4.31	4.86	5.46	6.15	7.03	8.39	9.62
Jun	.84	1.24	1.90	2.51	3.13	3.80	4.55	5.47	6.68	8.63	10.49
Jul	.45	.75	1.30	1.85	2.44	3.10	3.87	4.83	6.13	8.28	10.37
Aug	.29	.50	.89	1.28	1.71	2.19	2.76	3.47	4.44	6.05	7.63
Sep	.49	.76	1.22	1.66	2.12	2.62	3.19	3.89	4.83	6.36	7.83
Oct	.58	.89	1.41	1.91	2.42	2.97	3.60	4.38	5.41	7.08	8.68
Nov	1.46	1.92	2.61	3.19	3.76	4.36	5.01	5.78	6.77	8.32	9.75
Dec	.96	1.39	2.09	2.72	3.36	4.05	4.82	5.75	6.98	8.95	10.82
Ann	36.98	39.59	42.92	45.44	47.67	49.81	52.02	54.46	57.41	61.66	65.33

\+ 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: 1930-2001
(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	.5	#	#	0	3.9	1982	13	3.9+	1982	2	2000	29	#+	2000	.4	.2	.1	.0	.0	.2	.0	.0	.0
Feb	.5	.0	#	0	2.5	1997	13	3.5	1971	4	1993	15	#+	1998	.4	.3	.0	.0	.0	.1	.0	.0	.0
Mar	1.0	.0	#	0	5.0	1971	3	11.0	1971	#	1996	20	#	1996	.2	.2	.2	.1	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	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	2.0	1971	24	2.0	1971	#	1995	29	#	1995	.1	.1	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	#	0	.3	1996	17	.3	1996	#	1996	17	#	1996	.1	.0	.0	.0	.0	.0	.0	.0	.0
Ann	2.2	#	N/A	N/A	5.0	Mar 1971	3	11.0	Mar 1971	4	Feb 1993	15	#+	Jan 2000	1.2	.8	.3	.1	.0	.3	.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	4/15	4/12	4/09	4/06	4/04	4/02	3/31	3/28	3/24
32	4/08	4/03	3/30	3/27	3/24	3/21	3/17	3/13	3/08
28	3/25	3/18	3/14	3/10	3/06	3/02	2/26	2/21	2/15
24	3/15	3/07	3/01	2/24	2/20	2/15	2/10	2/05	1/28
20	3/05	2/26	2/21	2/16	2/12	2/07	2/03	1/28	1/21
16	2/28	2/20	2/13	2/08	2/02	1/27	1/20	1/10	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	10/15	10/20	10/24	10/27	10/31	11/03	11/06	11/10	11/15
32	10/26	11/01	11/05	11/09	11/12	11/16	11/20	11/24	11/30
28	11/03	11/10	11/15	11/20	11/24	11/28	12/03	12/08	12/15
24	11/15	11/23	11/29	12/04	12/09	12/14	12/19	12/25	1/02
20	11/19	11/30	12/08	12/15	12/22	12/28	1/04	1/12	1/23
16	12/06	12/15	12/22	12/27	1/02	1/08	1/16	1/27	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	226	220	216	212	209	205	201	197	191
32	258	250	243	238	233	228	223	216	208
28	290	281	274	268	262	257	251	244	234
24	327	315	306	299	292	284	277	268	256
20	>365	331	321	313	306	300	293	286	275
16	>365	>365	>365	350	335	325	316	306	294

***** 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	886	657	443	174	36	0	0	0	10	146	437	755	3544
60	733	527	303	87	10	0	0	0	1	68	303	609	2641
57	648	450	229	51	4	0	0	0	0	39	233	523	2177
55	590	400	186	33	2	0	0	0	0	25	191	467	1894
50	450	288	101	8	0	0	0	0	0	6	108	339	1300
32	106	45	2	0	0	0	0	0	0	0	3	57	213

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	242	312	586	861	1187	1397	1557	1493	1231	939	561	325	10691
55	13	23	56	204	476	707	844	780	541	250	59	22	3975
57	10	17	37	162	416	647	782	718	481	203	41	16	3530
60	2	10	18	108	329	557	689	625	393	139	21	9	2900
65	0	0	3	45	201	407	534	470	252	62	5	0	1979
70	0	0	0	14	102	261	379	317	134	20	0	0	1227

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	165	371	633	954	1167	1319	1249	1002	703	348	141	94	259	630	1263	2217	3384	4703	5952	6954	7657	8005	8146
45	46	93	244	486	799	1017	1164	1094	852	549	228	74	46	139	383	869	1668	2685	3849	4943	5795	6344	6572	6646
50	17	42	145	346	644	867	1009	939	702	399	133	33	17	59	204	550	1194	2061	3070	4009	4711	5110	5243	5276
55	4	12	76	223	489	717	854	784	552	263	69	12	4	16	92	315	804	1521	2375	3159	3711	3974	4043	4055
60	0	3	34	124	340	568	699	629	407	148	24	2	0	3	37	161	501	1069	1768	2397	2804	2952	2976	2978
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	50	96	204	384	635	801	905	866	674	437	191	76	50	146	350	734	1369	2170	3075	3941	4615	5052	5243	5319

(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