

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: BATESVILLE L&D 1, AR

1971-2000

COOP ID: 030460

Climate Division: AR 3

NWS Call Sign:

Elevation: 260 Feet

Lat: 35°45N

Lon: 91°38W

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	45.1	24.9	35.0	78	1952	26	45.4	1990	-11	1977	11	22.3	1977	930	0	.0	.0	12.8	3.7	22.4	.5
Feb	51.1	28.7	39.9	85	1962	13	48.5	1990	-15	1951	2	27.6	1978	703	0	.0	.0	17.4	1.8	16.3	@
Mar	60.0	37.9	49.0	89	1967	12	53.6	1990	9	1960	5	43.1	1975	499	1	.0	.0	26.6	.1	8.6	.0
Apr	69.3	46.3	57.8	93+	1987	20	64.1	1981	23+	1954	1	51.6	1983	234	18	.0	.2	29.6	.0	2.1	.0
May	78.2	56.6	67.4	98	1977	30	72.5	1987	30	1960	1	63.0	1976	60	135	.0	2.1	31.0	.0	.0	.0
Jun	86.6	64.9	75.8	105	1953	18	79.0	1971	41+	1966	1	71.6	1974	1	322	.9	12.9	30.0	.0	.0	.0
Jul	91.8	69.4	80.6	112+	1954	13	86.6	1980	48+	1963	11	76.9	1994	0	483	3.6	23.3	31.0	.0	.0	.0
Aug	90.3	67.2	78.8	110	1980	1	84.2	1980	45	1967	28	75.0	1992	0	427	2.8	19.8	31.0	.0	.0	.0
Sep	82.4	59.6	71.0	106	2000	4	76.1	1980	31	1967	29	64.0	1974	31	211	.5	7.7	30.0	.0	.0	.0
Oct	72.0	47.4	59.7	98	1954	2	65.2	1971	20	1952	29	54.6	1976	198	33	.0	.4	30.8	.0	1.3	.0
Nov	58.8	37.3	48.1	84+	1955	13	54.5	1999	9	1976	29	40.2	1976	509	1	.0	.0	24.2	.0	8.9	.0
Dec	48.9	29.2	39.1	79+	1951	31	47.3	1984	-6	1983	25	25.4	1983	805	0	.0	.0	16.5	2.0	18.7	.2
Ann	69.5	47.5	58.5	112+	Jul 1954	13	86.6	Jul 1980	-15	Feb 1951	2	22.3	Jan 1977	3970	1631	7.8	66.4	310.9	7.6	78.3	.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/normal/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

006-A

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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	3.26	3.31	3.79	1966	2	8.10	1982	.27	1986	8.9	6.0	2.2	.9	.81	1.11	1.59	2.01	2.42	2.86	3.35	3.94	4.70	5.91	7.04
Feb	3.30	2.74	3.34	1956	18	7.97	1989	1.00	1980	8.2	5.3	2.3	.8	1.00	1.31	1.78	2.19	2.58	2.98	3.43	3.96	4.64	5.70	6.68
Mar	4.54	4.20	4.50	1994	9	9.68	1975	.73	1995	10.1	7.4	3.0	1.4	1.37	1.80	2.45	3.00	3.54	4.10	4.72	5.45	6.39	7.86	9.22
Apr	4.76	4.21	4.85	1997	5	16.40	1973	.60	1987	9.1	6.9	3.0	1.5	1.10	1.55	2.24	2.87	3.49	4.15	4.88	5.77	6.92	8.76	10.49
May	4.88	4.35	4.14	1968	11	9.65	1983	1.03	1992	9.9	7.6	3.5	1.6	1.60	2.07	2.75	3.33	3.88	4.46	5.09	5.83	6.77	8.25	9.60
Jun	3.50	3.64	3.48	1997	29	9.10	1999	.40	1984	8.3	5.8	2.5	1.1	.96	1.29	1.79	2.24	2.67	3.12	3.62	4.22	4.99	6.21	7.34
Jul	3.13	2.97	3.40	1964	11	6.75	1973	.67	2000	7.1	4.9	2.1	1.1	.98	1.28	1.72	2.10	2.46	2.84	3.26	3.74	4.37	5.35	6.26
Aug	3.08	3.00	4.10	1951	18	6.19	1975	.61	2000	6.9	5.3	2.1	.9	.99	1.28	1.71	2.08	2.44	2.81	3.21	3.69	4.29	5.24	6.12
Sep	3.58	3.26	4.27	1967	8	9.11	1977	.43	1999	7.2	5.0	2.8	1.1	.62	.93	1.45	1.94	2.44	2.99	3.61	4.36	5.37	7.00	8.55
Oct	4.00	3.36	3.75	1998	6	15.03	1984	.67	1977	7.4	5.0	2.6	1.4	.86	1.23	1.82	2.35	2.88	3.45	4.09	4.86	5.87	7.49	9.02
Nov	5.48	5.24	5.04	1959	4	13.08	1996	.92	1976	8.6	6.3	3.8	2.1	1.28	1.79	2.59	3.31	4.02	4.78	5.63	6.64	7.96	10.07	12.05
Dec	4.51	3.76	3.80	1973	4	13.17	1982	1.24	2000	8.7	6.6	3.0	1.4	1.09	1.51	2.17	2.76	3.34	3.96	4.65	5.46	6.54	8.24	9.83
Ann	48.02	46.95	5.04	Nov 1959	4	16.40	Apr 1973	.27	Jan 1986	100.4	72.1	32.9	15.3	32.67	35.59	39.36	42.24	44.81	47.30	49.89	52.76	56.26	61.35	65.78

+ 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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Lat: 35°45N

Lon: 91°38W

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	2.7	.0	#	0	8.4	1988	7	13.0	1977	9+	1988	9	2	1978	1.4	.9	.4	.1	.0	2.7	1.5	.2	.0
Feb	3.2	1.5	#	0	9.0	1979	25	16.0	1979	6	1980	9	2	1979	1.4	1.1	.3	.2	.0	1.5	.8	.4	.0
Mar	.5	.0	#	0	3.0	1971	3	6.0	1971	3	1971	3	#+	1998	.3	.2	@	.0	.0	.2	@	.0	.0
Apr	#	.0	0	0	#	1971	7	#	1971	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	.7	.0	#	0	6.0	1971	23	6.5	1976	4	1980	27	#+	1995	.2	.2	.1	.1	.0	.1	@	.0	.0
Dec	1.1	.0	#	0	3.0	1990	23	6.0	1990	4	1990	27	1	1990	.7	.5	.1	.0	.0	1.1	.2	.0	.0
Ann	8.2	1.5	N/A	N/A	9.0	Feb 1979	25	16.0	Feb 1979	9+	Jan 1988	9	2+	Feb 1979	4.0	2.9	.9	.4	.0	5.6	2.5	.6	.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

Complete documentation available from:

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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	5/03	4/28	4/24	4/21	4/17	4/14	4/11	4/07	4/01
32	4/19	4/14	4/11	4/09	4/06	4/04	4/01	3/29	3/25
28	4/09	4/04	3/31	3/28	3/25	3/22	3/19	3/15	3/10
24	4/01	3/24	3/18	3/13	3/08	3/04	2/27	2/21	2/13
20	3/14	3/07	3/02	2/26	2/22	2/18	2/14	2/09	2/02
16	3/13	3/01	2/21	2/13	2/07	1/31	1/23	1/14	12/31
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	10/04	10/07	10/10	10/13	10/16	10/19	10/22	10/27
32	10/14	10/18	10/21	10/24	10/27	10/29	11/01	11/04	11/08
28	10/27	11/01	11/05	11/08	11/10	11/13	11/16	11/20	11/25
24	11/02	11/09	11/14	11/18	11/23	11/27	12/01	12/06	12/13
20	11/11	11/19	11/24	11/28	12/03	12/07	12/11	12/16	12/24
16	11/20	11/30	12/08	12/14	12/20	12/27	1/02	1/10	1/23
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	197	191	186	182	178	174	170	166	159
32	222	215	210	207	203	199	195	190	184
28	252	244	239	234	230	225	221	215	207
24	288	278	271	264	258	252	246	239	228
20	313	302	295	289	283	277	270	263	253
16	>365	>365	325	315	307	300	293	285	275

* 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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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	930	703	499	234	60	1	0	0	31	198	509	805	3970
60	775	570	356	125	19	0	0	0	8	99	369	653	2974
57	690	492	277	78	8	0	0	0	3	58	290	567	2463
55	631	440	230	53	4	0	0	0	1	38	242	509	2148
50	488	322	135	15	0	0	0	0	0	10	143	373	1486
32	125	56	5	0	0	0	0	0	0	0	5	65	256

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	219	277	530	775	1098	1311	1506	1449	1170	858	486	283	9962
55	11	17	43	138	389	621	793	736	481	183	33	14	3459
57	8	12	28	102	331	561	731	674	423	141	21	10	3042
60	0	6	14	60	249	471	638	581	338	89	10	3	2459
65	0	0	1	18	135	322	483	427	211	33	1	0	1631
70	0	0	0	3	57	182	328	277	112	8	0	0	967

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	89	171	359	596	883	1099	1278	1225	967	655	321	133	89	260	619	1215	2098	3197	4475	5700	6667	7322	7643	7776
45	43	93	236	451	728	949	1123	1070	817	501	205	68	43	136	372	823	1551	2500	3623	4693	5510	6011	6216	6284
50	19	45	137	313	573	799	968	915	667	356	119	28	19	64	201	514	1087	1886	2854	3769	4436	4792	4911	4939
55	3	17	67	196	419	649	813	760	518	223	60	10	3	20	87	283	702	1351	2164	2924	3442	3665	3725	3735
60	0	0	30	99	271	499	658	605	376	122	21	0	0	0	30	129	400	899	1557	2162	2538	2660	2681	2681
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	61	117	225	378	582	744	857	826	643	422	195	85	61	178	403	781	1363	2107	2964	3790	4433	4855	5050	5135

(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