

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 LIVESTOCK, AR

1971-2000

COOP ID: 030458

Climate Division: AR 3

NWS Call Sign:

Elevation: 571 Feet

Lat: 35° 50N

Lon: 91° 48W

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	48.8	28.2	38.5	79+	1950	25	46.9	1990	-11	1985	20	26.9	1977	821	0	.0	.0	14.7	3.3	20.9	.4
Feb	55.7	32.5	44.1	85	1962	13	53.0	1976	-15	1951	2	32.3	1978	588	2	.0	.0	18.9	1.4	14.7	.1
Mar	64.5	40.3	52.4	90	1967	12	57.2	1973	3	1943	3	46.5	1996	398	9	.0	.0	27.6	.1	8.1	.0
Apr	74.2	48.5	61.4	94+	1987	20	67.9	1981	23	1954	1	55.5	1983	152	42	.0	.4	29.8	.0	1.6	.0
May	80.9	56.7	68.8	96+	1977	30	74.1	1987	28	1954	4	62.8	1976	46	163	.0	1.8	31.0	.0	@	.0
Jun	88.5	65.1	76.8	108	1952	29	81.2	1998	42	1956	2	72.0	1974	2	355	.6	12.0	30.0	.0	.0	.0
Jul	93.7	69.9	81.8	115	1954	14	88.5	1980	47	1943	1	78.5	1989	0	520	3.8	23.1	31.0	.0	.0	.0
Aug	93.1	68.1	80.6	110+	1964	4	87.3	1980	44+	1950	20	74.3	1992	1	484	4.0	20.9	31.0	.0	.0	.0
Sep	86.0	61.2	73.6	108	2000	3	78.8	1998	28	1949	30	66.9	1974	15	272	1.0	9.6	30.0	.0	.0	.0
Oct	76.2	49.9	63.1	100	1953	1	68.9	1971	21+	1948	18	57.2	1976	125	64	.0	1.1	30.8	.0	1.4	.0
Nov	61.9	40.5	51.2	86+	1950	1	57.7	1999	4	1950	25	44.3	1976	422	7	.0	.0	25.6	@	8.0	.0
Dec	51.5	31.6	41.6	79	1956	6	49.8	1984	-9	1989	23	29.2	1983	727	0	.0	.0	17.6	1.8	17.0	.2
Ann	72.9	49.4	61.2	115	Jul 1954	14	88.5	Jul 1980	-15	Feb 1951	2	26.9	Jan 1977	3297	1918	9.4	68.9	318.0	6.6	71.7	.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: 1941-2001

(3) Derived from 1971-2000 serially complete daily data

005-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	3.01	2.56	4.45	2000	3	7.09	1982	.58	1986	7.3	5.0	1.9	.7	.84	1.13	1.56	1.94	2.30	2.69	3.12	3.62	4.27	5.30	6.25
Feb	3.29	3.09	2.88	1945	17	9.32	1989	.64	1972	6.7	4.8	2.2	1.0	.75	1.05	1.54	1.97	2.40	2.86	3.37	3.99	4.80	6.08	7.29
Mar	4.57	4.17	6.67	1975	28	11.62	1975	1.46	1993	8.0	6.3	3.2	1.3	1.50	1.93	2.57	3.11	3.64	4.17	4.77	5.46	6.35	7.73	9.00
Apr	4.42	3.85	4.07	1945	15	10.89	1991	.85	1987	9.0	6.3	3.3	1.3	1.52	1.94	2.55	3.06	3.55	4.06	4.61	5.26	6.08	7.36	8.54
May	4.79	4.99	6.50	1943	11	8.10	1979	1.94	1988	9.9	7.7	3.6	1.4	2.01	2.44	3.05	3.56	4.03	4.51	5.02	5.61	6.36	7.50	8.54
Jun	3.37	3.20	3.76	1948	20	7.97	1991	.68	1984	8.0	5.5	2.3	.9	.85	1.17	1.66	2.10	2.52	2.98	3.48	4.08	4.86	6.09	7.25
Jul	3.14	3.30	4.74	1999	10	7.53	1999	.04	1980	7.4	4.8	2.2	1.0	.63	.92	1.38	1.80	2.23	2.68	3.20	3.82	4.64	5.96	7.21
Aug	3.09	2.54	3.60	1970	10	6.30	1975	.13	2000	6.7	4.7	2.3	.9	.65	.93	1.38	1.80	2.21	2.66	3.16	3.76	4.56	5.83	7.03
Sep	3.69	2.94	4.23	1965	22	8.56	1993	.60	1971	7.2	4.9	2.5	1.2	.65	.97	1.51	2.01	2.53	3.09	3.73	4.50	5.53	7.19	8.78
Oct	3.89	3.39	3.55	1973	12	15.30	1984	.38	1992	7.1	5.2	2.7	1.4	.71	1.06	1.63	2.16	2.69	3.28	3.94	4.74	5.80	7.51	9.14
Nov	5.33	5.28	5.38	1994	5	12.61	1996	1.06	1976	8.2	6.3	3.6	1.9	1.40	1.91	2.68	3.36	4.03	4.73	5.51	6.43	7.63	9.53	11.31
Dec	4.02	3.68	7.00	1982	3	12.80	1982	1.09	1981	7.6	5.7	2.9	1.1	.99	1.37	1.96	2.48	2.99	3.53	4.14	4.86	5.80	7.29	8.69
Ann	46.61	44.46	7.00	Dec 1982	3	15.30	Oct 1984	.04	Jul 1980	93.1	67.2	32.7	14.1	31.71	34.54	38.20	41.00	43.49	45.91	48.42	51.21	54.60	59.54	63.84

+ 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: 1941-2001

(3) Derived from 1971-2000 serially complete daily data

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Lat: 35° 50N

Lon: 91° 48W

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	2.5	.5	#	#	8.0	1977	9	14.0	1977	10	1988	7	3	1977	1.3	.9	.4	.1	.0	3.4	1.5	.5	@
Feb	2.1	.3	#	#	8.0	1979	25	14.0	1979	7	1980	8	2	1985	1.2	.9	.3	.1	.0	2.0	1.0	.4	.0
Mar	.6	.0	#	0	5.0	1994	9	5.0	1994	7	1975	14	1	1975	.3	.2	.1	@	.0	.2	@	@	.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	.1	.0	#	0	1.5	1993	30	1.5	1993	2	1993	30	#	1993	@	@	.0	.0	.0	@	.0	.0	.0
Nov	.8	.0	#	0	7.5	1980	27	8.0	1980	7	1971	23	#+	1980	.2	.2	.1	.1	.0	.3	.2	.1	.0
Dec	.7	.0	#	0	3.5	1990	27	5.5	1990	4	1975	26	1	1983	.5	.3	@	.0	.0	1.2	.1	.0	.0
Ann	6.8	.8	N/A	N/A	8.0+	Feb 1979	25	14.0+	Feb 1979	10	Jan 1988	7	3	Jan 1977	3.5	2.5	.9	.3	.0	7.1	2.8	1.0	@

+ 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	4/28	4/23	4/20	4/17	4/14	4/12	4/09	4/06	4/01
32	4/19	4/15	4/12	4/09	4/07	4/04	4/01	3/29	3/25
28	4/11	4/05	4/01	3/28	3/25	3/22	3/18	3/14	3/08
24	3/28	3/20	3/15	3/11	3/06	3/02	2/26	2/20	2/13
20	3/15	3/08	3/02	2/26	2/22	2/18	2/13	2/08	2/01
16	3/10	3/01	2/22	2/16	2/11	2/06	1/31	1/24	1/15
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	9/30	10/04	10/08	10/11	10/13	10/16	10/19	10/22	10/27
32	10/12	10/16	10/19	10/22	10/25	10/28	10/30	11/03	11/07
28	10/29	11/02	11/06	11/09	11/12	11/15	11/18	11/21	11/26
24	11/02	11/09	11/13	11/17	11/21	11/25	11/29	12/03	12/10
20	11/10	11/17	11/22	11/27	12/01	12/05	12/09	12/14	12/21
16	11/17	11/27	12/05	12/12	12/18	12/24	12/30	1/07	1/17
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	198	192	188	185	181	178	174	170	164
32	220	213	209	205	201	197	193	188	181
28	255	247	241	236	231	226	221	215	207
24	285	276	270	264	259	254	248	242	233
20	312	301	294	287	281	275	269	261	250
16	>365	327	315	308	301	296	289	282	273

* 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	821	588	398	152	46	2	0	1	15	125	422	727	3297
60	670	458	263	69	13	0	0	0	2	53	290	579	2397
57	584	382	195	36	5	0	0	0	0	28	221	492	1943
55	527	335	157	22	2	0	0	0	0	16	181	436	1676
50	392	231	81	4	0	0	0	0	0	3	101	308	1120
32	75	26	1	0	0	0	0	0	0	0	2	40	144

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	277	364	635	881	1140	1343	1543	1506	1247	962	577	336	10811
55	16	29	77	212	429	653	830	793	557	265	66	20	3947
57	12	21	54	167	370	593	768	731	497	215	46	14	3488
60	4	12	28	109	285	503	675	638	409	147	24	7	2841
65	0	2	9	42	163	355	520	484	272	64	7	0	1918
70	0	0	0	11	77	216	365	336	157	20	0	0	1182

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	112	210	395	632	881	1088	1275	1235	985	699	341	142	112	322	717	1349	2230	3318	4593	5828	6813	7512	7853	7995
45	57	122	266	486	726	938	1120	1080	835	545	224	76	57	179	445	931	1657	2595	3715	4795	5630	6175	6399	6475
50	26	66	162	346	571	788	965	925	685	396	131	35	26	92	254	600	1171	1959	2924	3849	4534	4930	5061	5096
55	4	28	85	221	419	638	810	770	535	257	70	13	4	32	117	338	757	1395	2205	2975	3510	3767	3837	3850
60	0	5	36	118	269	488	655	615	392	145	26	1	0	5	41	159	428	916	1571	2186	2578	2723	2749	2750
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	72	136	249	404	577	740	853	821	656	454	205	87	72	208	457	861	1438	2178	3031	3852	4508	4962	5167	5254

(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