

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: BLAKELY MOUNTAIN DAM, AR

1971-2000

COOP ID: 030764

Climate Division: AR 5

NWS Call Sign:

Elevation: 426 Feet

Lat: 34° 34N

Lon: 93° 12W

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	49.8	26.7	38.3	77+	1969	9	44.4	1990	-8	1962	12	28.4	1979	829	0	.0	.0	16.1	2.3	23.5	.0
Feb	55.8	29.8	42.8	85	1962	13	49.6	1976	1	1985	4	32.5	1978	622	0	.0	.0	19.4	1.3	18.9	.0
Mar	64.1	37.2	50.7	87+	1967	13	56.5	1974	12+	1980	3	44.8	1996	446	1	.0	.0	27.8	.1	9.9	.0
Apr	73.2	44.4	58.8	95	1987	28	65.2	1981	24+	1971	7	54.3	1983	203	17	.0	.4	29.7	.0	3.1	.0
May	80.0	53.9	67.0	95	1964	27	71.5	1987	34+	1976	4	63.3	1976	56	117	.0	1.3	31.0	.0	.0	.0
Jun	88.0	61.9	75.0	102+	1972	21	79.3	1971	45+	1966	1	71.4	1974	3	302	.3	11.6	30.0	.0	.0	.0
Jul	93.0	65.9	79.5	109+	1986	30	85.0	1980	49+	1972	7	75.8	1989	0	448	2.9	22.4	31.0	.0	.0	.0
Aug	92.3	64.3	78.3	111	1986	1	82.9	1980	45	1988	30	72.4	1992	1	412	3.1	20.8	31.0	.0	.0	.0
Sep	84.8	58.1	71.5	105+	2000	2	76.4	1980	33	1967	29	66.6	1974	23	216	.6	8.6	30.0	.0	.0	.0
Oct	74.4	46.0	60.2	96+	1963	9	66.0	1971	25+	1989	20	54.5	1976	182	34	.0	.7	30.8	.0	1.6	.0
Nov	61.7	37.2	49.5	85	1987	6	54.3	1985	12	1976	30	43.0	1976	467	1	.0	.0	26.0	@	10.8	.0
Dec	52.5	29.6	41.1	81	1956	6	50.6	1984	0	1989	23	30.8	1983	743	0	.0	.0	19.9	1.3	20.4	.1
Ann	72.5	46.3	59.4	111	Aug 1986	1	85.0	Jul 1980	-8	Jan 1962	12	28.4	Jan 1979	3575	1548	6.9	65.8	322.7	5.0	88.2	.1

+ 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: 1950-2001

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

010-A

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1971-2000**

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NWS Call Sign:

Elevation: 426 Feet Lat: 34°34N

Lon: 93°12W

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	3.55	3.18	7.88	1969	30	7.32	1999	.32	1986	9.2	6.2	2.6	.7	.89	1.22	1.74	2.20	2.65	3.13	3.66	4.30	5.12	6.43	7.66
Feb	3.97	3.92	4.50	1998	10	10.14	1989	.99	1972	7.9	5.3	2.6	1.2	1.37	1.75	2.30	2.76	3.20	3.65	4.15	4.72	5.46	6.61	7.66
Mar	5.27	5.01	4.24	1990	8	12.24	1973	1.52	1972	9.0	7.0	3.4	1.6	1.90	2.40	3.11	3.72	4.29	4.87	5.51	6.25	7.20	8.67	10.01
Apr	5.44	5.27	6.00	1974	22	11.46	1973	1.05	1987	8.8	6.3	3.3	1.7	1.51	2.02	2.81	3.49	4.16	4.86	5.63	6.55	7.74	9.61	11.36
May	5.90	5.62	5.67	1955	27	13.94	1990	1.19	1988	10.3	8.0	3.9	1.7	2.04	2.60	3.41	4.09	4.75	5.42	6.16	7.02	8.11	9.81	11.38
Jun	4.74	4.07	6.00	1997	17	11.35	1974	.83	1980	8.3	6.5	2.9	1.5	1.13	1.58	2.27	2.89	3.50	4.15	4.87	5.73	6.87	8.66	10.35
Jul	4.40	3.60	7.35	1963	16	12.80	1989	.02	1993	7.1	5.4	2.6	1.4	.30	.58	1.14	1.74	2.41	3.20	4.14	5.34	7.01	9.82	12.61
Aug	2.95	2.78	4.50	1982	7	7.13	1974	.20	2000	6.4	4.6	1.7	1.0	.41	.66	1.08	1.49	1.92	2.39	2.93	3.60	4.50	5.97	7.38
Sep	3.87	3.72	7.20	1965	22	8.37	1972	.30	1982	7.7	5.5	2.7	1.0	1.10	1.46	2.02	2.50	2.98	3.47	4.02	4.66	5.50	6.81	8.03
Oct	4.99	4.61	4.92	1970	27	17.62	1984	.63	1977	6.9	4.9	2.9	1.8	.87	1.31	2.04	2.72	3.42	4.17	5.04	6.09	7.48	9.74	11.89
Nov	6.63	6.40	5.75	1963	22	12.12	2000	1.23	1981	8.6	6.2	3.5	1.9	1.63	2.25	3.21	4.07	4.92	5.82	6.82	8.02	9.58	12.05	14.37
Dec	5.17	4.34	8.20	1982	3	15.79	1982	.79	1981	8.7	6.3	3.2	1.6	1.24	1.72	2.48	3.15	3.82	4.53	5.32	6.26	7.49	9.45	11.29
Ann	56.88	53.81	8.20	Dec 1982	3	17.62	Oct 1984	.02	Jul 1993	98.9	72.2	35.3	17.1	41.73	44.70	48.48	51.34	53.87	56.31	58.82	61.58	64.93	69.77	73.94

+ 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: 1950-2001

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

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Climate Division: AR 5

NWS Call Sign:

Elevation: 426 Feet

Lat: 34°34N

Lon: 93°12W

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	2.0	.5	#	0	8.0	2000	27	8.0+	2000	4	1995	23	#+	1995	.8	.6	.1	.1	.0	.1	.0	.0	.0
Feb	2.0	.0	#	0	6.5	1979	7	9.0	1985	4	1982	27	2	1982	.6	.6	.3	.2	.0	.1	.0	.0	.0
Mar	.3	.0	#	0	3.0	1975	14	3.0	1975	1	1971	3	#	1971	.1	.1	.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	3.0	1971	23	3.0	1971	3	1971	23	#	1971	.1	.1	.1	.0	.0	@	@	.0	.0
Dec	.1	.0	0	0	1.0	1975	25	1.0	1975	0	0	0	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Ann	4.6	.5	N/A	N/A	8.0	Jan 2000	27	9.0	Feb 1985	4+	Jan 1995	23	2	Feb 1982	1.7	1.5	.6	.3	.0	.2	@	.0	.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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Climate Division: AR 5

NWS Call Sign:

Elevation: 426 Feet

Lat: 34°34N

Lon: 93°12W

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	5/01	4/27	4/24	4/21	4/19	4/17	4/14	4/11	4/07
32	4/19	4/16	4/13	4/11	4/09	4/07	4/05	4/03	3/30
28	4/10	4/05	4/01	3/29	3/26	3/24	3/20	3/17	3/12
24	3/30	3/23	3/17	3/12	3/07	3/03	2/26	2/20	2/12
20	3/12	3/03	2/25	2/20	2/14	2/09	2/04	1/29	1/20
16	3/02	2/20	2/13	2/07	1/31	1/25	1/17	1/05	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	10/04	10/07	10/10	10/12	10/14	10/17	10/19	10/22	10/25
32	10/16	10/21	10/24	10/27	10/30	11/02	11/05	11/08	11/13
28	10/28	11/02	11/06	11/09	11/12	11/15	11/18	11/22	11/27
24	11/07	11/14	11/19	11/23	11/27	11/30	12/04	12/09	12/16
20	11/12	11/23	12/01	12/08	12/15	12/21	12/28	1/05	1/16
16	11/23	12/05	12/13	12/21	12/28	1/05	1/14	1/28	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	194	188	184	181	178	174	171	167	161
32	223	216	211	207	203	199	195	190	184
28	254	246	240	235	230	225	220	214	206
24	290	281	274	269	263	258	253	246	237
20	342	323	313	305	298	291	283	275	263
16	>365	>365	>365	349	331	319	308	296	281

* 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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Climate Division: AR 5 NWS Call Sign: Elevation: 426 Feet Lat: 34°34N Lon: 93°12W

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	829	622	446	203	56	3	0	1	23	182	467	743	3575
60	674	484	302	98	15	0	0	0	4	86	327	592	2582
57	583	406	224	55	5	0	0	0	1	49	250	505	2078
55	527	354	179	34	2	0	0	0	0	31	204	448	1779
50	384	236	91	7	0	0	0	0	0	7	113	316	1154
32	55	17	1	0	0	0	0	0	0	0	2	39	114

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	248	319	579	805	1084	1289	1471	1434	1184	875	526	319	10133
55	8	12	44	149	373	599	758	721	494	192	38	16	3404
57	1	8	27	110	314	539	696	659	435	148	24	11	2972
60	0	2	12	63	231	449	603	566	348	93	11	4	2382
65	0	0	1	17	117	302	448	412	216	34	1	0	1548
70	0	0	0	2	44	168	294	267	114	8	0	0	897

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	99	177	357	574	844	1054	1232	1196	957	645	315	144	99	276	633	1207	2051	3105	4337	5533	6490	7135	7450	7594
45	44	93	231	428	689	904	1077	1041	807	492	200	67	44	137	368	796	1485	2389	3466	4507	5314	5806	6006	6073
50	17	42	134	287	534	754	922	886	657	344	112	33	17	59	193	480	1014	1768	2690	3576	4233	4577	4689	4722
55	2	14	61	166	381	604	767	731	507	214	54	11	2	16	77	243	624	1228	1995	2726	3233	3447	3501	3512
60	0	0	27	79	237	454	612	576	363	110	19	0	0	0	27	106	343	797	1409	1985	2348	2458	2477	2477
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	84	139	242	377	551	709	817	790	633	426	208	102	84	223	465	842	1393	2102	2919	3709	4342	4768	4976	5078

(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/normal/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