

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: HARRISON BOONE CO AP, AR

1971-2000

COOP ID: 033165

Climate Division: AR 1

NWS Call Sign: HRO

Elevation: 1,374 Feet Lat: 36°16N

Lon: 93°09W

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	44.4	25.4	34.9	74	1983	13	43.8	1990	-13	1985	20	22.2	1979	932	0	.0	.0	12.0	5.9	22.3	.7
Feb	50.3	30.1	40.2	87	1962	12	48.9	1976	-6	1981	11	27.4	1978	695	0	.0	.0	15.2	3.3	16.3	.2
Mar	59.1	38.5	48.8	90	1995	22	53.0	1973	4	1980	2	42.0	1996	503	1	.0	@	24.6	.5	9.6	.0
Apr	68.5	47.5	58.0	92	1987	20	65.3	1981	24	1989	11	51.2	1983	233	23	.0	.1	28.7	.0	1.8	.0
May	75.8	56.3	66.1	94+	1998	30	72.5	1998	33	1976	3	60.6	1976	83	115	.0	.4	31.0	.0	.0	.0
Jun	83.5	64.3	73.9	99	1988	23	77.4	1994	46	1972	1	69.8	1974	5	272	.0	4.9	30.0	.0	.0	.0
Jul	88.9	69.2	79.1	107	1986	29	85.6	1980	50	1970	22	75.3	1989	0	434	1.0	15.8	31.0	.0	.0	.0
Aug	88.1	67.0	77.6	105	1984	29	84.2	1980	48	1986	29	72.0	1992	4	393	.6	14.2	31.0	.0	.0	.0
Sep	80.0	59.1	69.6	103+	2000	1	77.0	1998	33	1989	24	62.2	1974	42	177	.2	3.7	30.0	.0	.0	.0
Oct	70.3	48.3	59.3	92+	1963	10	64.0	1971	21	1993	31	53.5	1976	203	27	.0	.1	30.3	@	1.4	.0
Nov	57.0	37.8	47.4	82+	1980	7	56.1	1999	8+	1976	29	40.4	1976	529	1	.0	.0	22.0	.5	8.5	.0
Dec	47.4	28.8	38.1	76+	1978	19	46.3	1984	-11	1989	23	23.4	1983	834	0	.0	.0	14.2	3.3	19.5	.4
Ann	67.8	47.7	57.8	107	Jul 1986	29	85.6	Jul 1980	-13	Jan 1985	20	22.2	Jan 1979	4063	1443	1.8	39.2	300.0	13.5	79.4	1.3

+ 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: 1961-2001

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

037-A

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Lon: 93°09W

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	2.51	2.21	4.12	1966	1	6.54	1982	.38	1976	8.2	4.7	1.4	.6	.42	.64	1.01	1.35	1.71	2.09	2.53	3.07	3.78	4.94	6.05
Feb	2.71	1.93	3.60	1985	23	7.42	1989	.42	1996	8.0	4.4	1.8	.7	.51	.76	1.15	1.52	1.89	2.30	2.75	3.30	4.04	5.21	6.33
Mar	4.29	4.02	4.26	1988	29	11.85	1973	.57	1971	9.9	6.5	2.7	1.0	1.03	1.43	2.06	2.62	3.17	3.76	4.42	5.20	6.22	7.85	9.37
Apr	4.09	4.11	4.45	1996	22	9.76	1973	.53	1989	10.1	6.7	2.5	1.2	.94	1.32	1.92	2.46	2.99	3.56	4.19	4.95	5.95	7.54	9.03
May	5.01	4.80	3.13	1990	2	12.86	1990	1.82	1982	11.2	8.0	3.6	1.7	1.79	2.26	2.94	3.52	4.06	4.62	5.23	5.95	6.85	8.26	9.54
Jun	4.34	3.90	4.37	1980	18	9.79	1980	1.03	1988	10.0	7.2	2.9	.9	1.32	1.73	2.35	2.88	3.39	3.92	4.51	5.20	6.09	7.48	8.77
Jul	2.72	2.38	3.63	1968	1	5.68	2000	.95	1980	7.6	5.1	1.8	.6	.95	1.20	1.58	1.89	2.19	2.50	2.84	3.23	3.74	4.52	5.23
Aug	3.41	3.21	3.36	1999	6	9.90	1981	.01	2000	7.7	5.1	2.3	1.1	.34	.59	1.06	1.54	2.05	2.63	3.31	4.16	5.33	7.26	9.15
Sep	4.03	3.76	4.63	1996	26	10.08	1993	.39	1981	8.7	5.7	2.4	1.3	.60	.94	1.52	2.08	2.66	3.30	4.03	4.92	6.13	8.09	9.97
Oct	3.50	3.12	4.29	1969	11	9.80	1991	.28	1989	8.2	5.6	2.7	1.0	.73	1.05	1.57	2.03	2.50	3.01	3.58	4.26	5.16	6.60	7.96
Nov	4.96	5.03	5.57	1973	24	10.28	1973	.35	1989	8.8	6.0	3.3	1.7	.97	1.41	2.14	2.81	3.49	4.22	5.04	6.04	7.36	9.47	11.48
Dec	3.63	2.95	5.37	1982	2	11.64	1982	.29	1981	8.7	5.4	2.2	1.0	.57	.88	1.41	1.91	2.43	3.00	3.64	4.44	5.50	7.22	8.87
Ann	45.20	44.97	5.57	Nov 1973	24	12.86	May 1990	.01	Aug 2000	107.1	70.4	29.6	12.8	31.46	34.10	37.50	40.08	42.38	44.61	46.92	49.47	52.58	57.09	61.00

+ 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: 1961-2001

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

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Climate Division: AR 1

NWS Call Sign: HRO

Elevation: 1,374 Feet

Lat: 36°16N

Lon: 93°09W

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	3.8	1.7	1	0	10.0	1977	9	18.0	1977	13+	1977	11	4+	1978	2.0	1.4	.6	.1	@	5.6	2.5	1.2	.3
Feb	3.5	2.6	#	0	14.3	1993	15	17.0	1993	14	1993	16	2+	1993	1.8	1.2	.4	.1	@	3.6	1.7	.7	.2
Mar	2.1	.0	#	0	13.0	1988	17	14.0	1988	14+	1994	9	1+	1994	.8	.6	.2	.1	.1	1.1	.5	.3	.1
Apr	.7	.0	0	0	5.8	1993	4	9.0	1971	##	1993	5	0	0	.2	.2	.1	.1	.0	.0	.0	.0	.0
May	.0	.0	#	0	.0	0	0	.0	0	0	0	0	#	2000	.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	0	1.9	1993	29	1.9	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.9	.0	#	0	6.0	1971	23	7.0	1971	4+	1996	26	#	1996	.5	.4	.1	@	.0	.4	.2	.0	.0
Dec	1.5	#	#	0	8.6	1975	25	10.6	1975	5+	1984	6	1	1983	.9	.6	.2	.1	.0	1.6	.4	.1	.0
Ann	12.6	4.3	N/A	N/A	14.3	Feb 1993	15	18.0	Jan 1977	14+	Mar 1994	9	4+	Jan 1978	6.2	4.4	1.6	.5	.1	12.3	5.3	2.3	.6

+ 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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Lat: 36° 16N

Lon: 93° 09W

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	4/27	4/23	4/19	4/16	4/14	4/11	4/08	4/05	3/31
32	4/17	4/13	4/09	4/07	4/04	4/02	3/30	3/27	3/23
28	4/08	4/03	3/30	3/26	3/23	3/20	3/17	3/13	3/07
24	3/29	3/22	3/18	3/13	3/10	3/06	3/02	2/25	2/19
20	3/17	3/09	3/04	2/27	2/23	2/18	2/14	2/08	2/01
16	3/08	3/01	2/23	2/19	2/14	2/10	2/05	1/31	1/23
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	10/06	10/10	10/13	10/17	10/20	10/24	10/28	11/03
32	10/11	10/17	10/22	10/26	10/29	11/02	11/06	11/11	11/17
28	10/24	10/30	11/04	11/09	11/13	11/17	11/21	11/26	12/03
24	11/02	11/09	11/13	11/17	11/21	11/24	11/28	12/03	12/09
20	11/10	11/18	11/23	11/27	12/01	12/05	12/10	12/15	12/22
16	11/15	11/25	12/03	12/09	12/15	12/21	12/27	1/03	1/14
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	204	198	193	189	185	182	178	173	167
32	230	222	216	212	207	203	198	192	185
28	260	251	244	239	234	228	223	216	207
24	283	273	266	261	255	250	244	237	228
20	312	301	294	287	281	274	268	260	249
16	335	319	311	304	298	293	287	280	270

* 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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Elevation: 1,374 Feet Lat: 36°16N

Lon: 93°09W

Degree Days to Selected Base Temperatures (°F)

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	932	695	503	233	83	5	0	4	42	203	529	834	4063
60	778	564	359	128	30	0	0	0	11	101	390	684	3045
57	693	486	279	81	14	0	0	0	4	59	311	598	2525
55	634	436	231	56	8	0	0	0	1	39	263	540	2208
50	493	320	134	17	1	0	0	0	0	10	163	405	1543
32	133	59	5	0	0	0	0	0	0	0	9	84	290

Cooling Degree Days (1)

Base	Cooling Degree Days ⁽¹⁾												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	223	288	526	780	1055	1258	1458	1412	1126	846	471	273	9716
55	12	21	39	146	350	568	744	699	437	172	35	16	3239
57	9	15	25	111	294	508	682	637	380	130	23	12	2826
60	1	9	12	68	217	418	589	544	297	79	12	5	2251
65	0	0	1	23	115	272	434	393	177	27	1	0	1443
70	0	0	0	5	46	145	284	252	90	5	0	0	827

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	87	156	319	552	813	1020	1212	1172	898	620	278	114	87	243	562	1114	1927	2947	4159	5331	6229	6849	7127	7241
45	44	90	211	413	658	870	1057	1017	748	470	178	57	44	134	345	758	1416	2286	3343	4360	5108	5578	5756	5813
50	18	44	124	279	503	720	902	862	598	326	96	27	18	62	186	465	968	1688	2590	3452	4050	4376	4472	4499
55	3	19	61	168	350	570	747	707	451	201	48	7	3	22	83	251	601	1171	1918	2625	3076	3277	3325	3332
60	0	1	25	83	213	420	592	552	312	101	15	0	0	1	26	109	322	742	1334	1886	2198	2299	2314	2314
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	54	98	191	337	515	697	837	800	594	375	157	64	54	152	343	680	1195	1892	2729	3529	4123	4498	4655	4719

(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