

Climatology of the United States

No. 20

1971-2000

Station: CABOT 4 SW, AR

COOP ID: 031102

Climate Division: AR 5

NWS Call Sign:

Elevation: 279 Feet Lat: 34° 57N Lon: 92° 05W

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	49.0	27.4	38.2	80	1975	29	45.1	1990	-5	1985	20	27.3	1979	830	0	.0	.0	15.0	2.9	20.0	.1
Feb	55.4	31.6	43.5	83+	1980	28	51.3	1976	-1	1985	3	31.8	1978	602	0	.0	.0	19.5	1.3	13.8	@
Mar	63.9	40.1	52.0	91	1974	31	57.7	1974	11	1996	9	46.0	1996	407	4	.0	@	27.9	.1	6.1	.0
Apr	72.5	47.6	60.1	93	1987	20	66.4	1981	24	1989	11	53.0	1997	183	35	.0	.1	29.8	.0	1.4	.0
May	79.4	57.0	68.2	98	1977	31	73.1	1987	36	1976	4	63.4	1997	48	148	.0	.8	31.0	.0	.0	.0
Jun	87.2	65.4	76.3	103	1988	29	80.3	1998	46+	1966	1	72.8	1974	1	340	.2	10.4	30.0	.0	.0	.0
Jul	91.1	68.7	79.9	112	1986	31	85.9	1980	51+	1972	7	74.9	1994	0	462	1.7	19.1	31.0	.0	.0	.0
Aug	90.3	66.6	78.5	108	2000	30	84.7	2000	49+	1986	30	71.9	1996	4	420	2.2	17.5	31.0	.0	.0	.0
Sep	84.0	59.9	72.0	106	2000	1	77.4	1980	36	1983	22	65.7	1996	27	236	.5	7.1	30.0	.0	.0	.0
Oct	74.3	47.8	61.1	92+	1975	11	67.2	1971	24	1997	28	55.7	1976	174	51	.0	.6	30.9	.0	1.1	.0
Nov	61.2	38.5	49.9	84	1978	4	55.7	1999	11	1976	29	43.1	1976	456	3	.0	.0	25.3	@	8.4	.0
Dec	51.7	30.7	41.2	78	1998	5	51.0	1984	-7	1989	23	29.6	1983	738	0	.0	.0	17.7	1.7	16.5	.2
Ann	71.7	48.4	60.1	112	Jul 1986	31	85.9	Jul 1980	-7	Dec 1989	23	27.3	Jan 1979	3470	1699	4.6	55.6	319.1	6.0	67.3	.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: 1918-2001

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

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: CABOT 4 SW, AR

COOP ID: 031102

Climate Division: AR 5

NWS Call Sign:

Elevation: 279 Feet Lat: 34°57N

Lon: 92°05W

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	3.52	2.91	6.29	1969	30	8.05	1999	.15	1986	6.3	5.7	2.5	.9	.64	.96	1.47	1.95	2.44	2.96	3.56	4.29	5.25	6.80	8.28
Feb	3.43	3.09	5.15	1959	14	8.81	1989	.96	1980	6.1	5.5	2.6	.9	1.12	1.45	1.93	2.33	2.73	3.13	3.58	4.10	4.77	5.81	6.77
Mar	5.04	4.62	3.50	1990	8	10.57	1990	1.73	1974	8.2	7.6	3.5	1.5	2.16	2.62	3.26	3.78	4.26	4.76	5.29	5.90	6.67	7.84	8.90
Apr	4.99	4.86	4.04	1974	22	11.32	1991	.35	1987	7.1	6.8	3.4	1.6	1.07	1.53	2.27	2.93	3.60	4.30	5.10	6.06	7.33	9.34	11.25
May	5.25	4.95	5.50	1955	27	11.09	1981	1.17	1988	8.1	7.3	3.9	1.9	1.72	2.22	2.95	3.58	4.18	4.80	5.48	6.27	7.29	8.88	10.34
Jun	3.94	3.56	5.62	1960	27	8.28	1994	.87	1988	6.6	5.8	2.8	1.3	1.25	1.62	2.17	2.65	3.11	3.58	4.10	4.71	5.49	6.71	7.84
Jul	3.23	3.29	4.00	1988	20	10.39	1988	.06	1993	5.7	5.3	2.4	.9	.41	.67	1.13	1.58	2.05	2.58	3.19	3.95	4.98	6.66	8.29
Aug	2.98	2.49	8.06	1957	13	9.36	1991	.12	1976	5.0	4.5	2.0	.9	.29	.50	.90	1.32	1.77	2.28	2.88	3.63	4.66	6.38	8.06
Sep	3.35	3.30	4.40	1965	22	6.95	1977	.31	1983	5.6	5.0	2.3	1.1	.80	1.11	1.60	2.04	2.47	2.93	3.44	4.06	4.86	6.13	7.32
Oct	4.05	3.29	4.35	1949	5	13.95	1984	.34	1977	5.4	5.0	2.7	1.6	.54	.87	1.44	2.01	2.60	3.25	4.01	4.95	6.21	8.27	10.27
Nov	6.12	5.96	7.76	1988	19	14.71	1988	1.50	1976	7.1	6.8	4.0	2.1	1.69	2.27	3.15	3.92	4.67	5.46	6.34	7.37	8.71	10.83	12.79
Dec	4.66	3.91	4.53	1987	25	13.34	1987	.89	1981	7.0	6.3	3.3	1.3	1.21	1.65	2.33	2.92	3.51	4.12	4.81	5.62	6.68	8.36	9.92
Ann	50.56	50.07	8.06	Aug 1957	13	14.71	Nov 1988	.06	Jul 1993	78.2	71.6	35.4	16.0	36.29	39.06	42.61	45.30	47.68	49.98	52.36	54.99	58.17	62.78	66.76

+ 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: 1918-2001

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

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Station: CABOT 4 SW, AR

COOP ID: 031102

Climate Division: AR 5

NWS Call Sign:

Elevation: 279 Feet

Lat: 34° 57N

Lon: 92° 05W

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	2.2	.0	#	#	10.0	1988	7	13.0	1988	10	1988	7	2	1988	1.0	.8	.3	.1	@	2.0	.6	.3	@
Feb	1.2	.0	#	0	7.5	1979	7	14.5	1979	6	1985	1	1	1985	.7	.4	.1	.1	.0	.9	.3	.1	.0
Mar	.4	.0	#	0	3.5	1971	2	3.5	1971	4	1971	2	#+	1989	.2	.2	.1	.0	.0	.1	@	.0	.0
Apr	#	.0	0	0	#	1983	19	#+	1983	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	#	1993	30	#	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.4	.0	#	0	4.0	1980	27	4.0	1980	2	1980	27	#+	2000	.1	.1	.1	.0	.0	.1	.0	.0	.0
Dec	.4	.0	#	0	3.9	1972	11	4.2	1972	2	1990	23	#+	1996	.3	.2	@	.0	.0	.3	.0	.0	.0
Ann	4.6	.0	N/A	N/A	10.0	Jan 1988	7	14.5	Feb 1979	10	Jan 1988	7	2	Jan 1988	2.3	1.7	.6	.2	@	3.4	.9	.4	@

+ 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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NWS Call Sign:

Elevation: 279 Feet

Lat: 34° 57N

Lon: 92° 05W

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	4/20	4/18	4/15	4/13	4/10	4/07	4/03
32	4/17	4/12	4/09	4/06	4/03	4/01	3/29	3/25	3/21
28	4/08	4/01	3/28	3/23	3/20	3/16	3/12	3/07	3/01
24	3/23	3/16	3/10	3/05	3/01	2/25	2/20	2/14	2/07
20	3/12	3/04	2/27	2/22	2/17	2/13	2/08	2/03	1/26
16	3/02	2/22	2/16	2/11	2/06	2/01	1/27	1/20	1/06
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	10/05	10/09	10/12	10/14	10/17	10/19	10/22	10/25	10/29
32	10/17	10/22	10/25	10/28	10/30	11/02	11/05	11/08	11/12
28	10/22	10/27	11/01	11/04	11/08	11/11	11/15	11/19	11/25
24	11/05	11/11	11/16	11/20	11/24	11/27	12/01	12/06	12/13
20	11/11	11/19	11/25	11/30	12/05	12/10	12/15	12/21	12/29
16	11/26	12/07	12/15	12/22	12/29	1/05	1/12	1/22	2/09
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	200	195	190	187	184	180	177	173	167
32	229	223	218	213	209	205	201	196	189
28	262	252	244	238	232	226	220	213	203
24	296	286	279	273	267	261	255	248	238
20	321	309	301	294	288	282	276	268	258
16	>365	>365	345	332	323	314	306	296	284

* 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: 279 Feet Lat: 34°57N Lon: 92°05W

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	830	602	407	183	48	1	0	4	27	174	456	738	3470
60	676	470	269	92	13	0	0	0	7	86	319	588	2520
57	591	393	198	53	5	0	0	0	2	50	245	502	2039
55	532	344	157	34	2	0	0	0	0	33	201	445	1748
50	394	235	78	9	0	0	0	0	0	9	112	314	1151
32	69	24	1	0	0	0	0	0	0	0	2	40	136

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	262	346	620	842	1123	1329	1485	1439	1199	901	539	325	10410
55	12	22	64	186	412	639	772	726	509	221	47	17	3627
57	9	15	42	145	353	579	710	664	451	176	31	12	3187
60	1	9	21	94	268	489	617	571	366	118	15	5	2574
65	0	0	4	35	148	340	462	420	236	51	3	0	1699
70	0	0	0	9	63	198	309	280	134	16	0	0	1009

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	117	215	421	630	897	1096	1253	1212	986	683	340	158	117	332	753	1383	2280	3376	4629	5841	6827	7510	7850	8008
45	59	125	287	483	742	946	1098	1057	836	529	226	86	59	184	471	954	1696	2642	3740	4797	5633	6162	6388	6474
50	28	63	173	343	587	796	943	902	686	381	134	39	28	91	264	607	1194	1990	2933	3835	4521	4902	5036	5075
55	5	25	91	215	433	646	788	747	536	245	72	19	5	30	121	336	769	1415	2203	2950	3486	3731	3803	3822
60	0	5	40	116	284	497	633	592	388	135	28	1	0	5	45	161	445	942	1575	2167	2555	2690	2718	2719
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	77	134	256	396	594	760	859	822	663	439	206	96	77	211	467	863	1457	2217	3076	3898	4561	5000	5206	5302

(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