U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: SEARCY, AR **COOP ID: 036506**

Climate Division: AR 3 **NWS Call Sign:** **Elevation: 245 Feet** **Lat: 35˚14N** **Lon: 91˚50W**

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	48.5	25.3	36.9	87	1950	25	43.9	1990	-11	1942	8	26.0	1977	871	0	.0	.0	15.2	3.0	20.8	.3
Feb	54.8	29.2	42.0	85	1962	13	49.9	1976	-10+	1951	2	30.1	1978	645	0	.0	.0	19.6	1.1	14.4	@
Mar	63.7	38.0	50.9	90+	1963	31	56.3	1974	9	1943	3	45.3	1975	442	3	.0	@	28.3	.1	6.7	.0
Apr	72.7	45.9	59.3	95	1987	20	65.1	1981	27	1936	3	52.8	1983	195	24	.0	.3	29.9	.0	1.3	.0
May	80.9	56.3	68.6	99	1934	30	74.2	1987	36+	1954	4	64.0	1976	49	160	.0	3.2	31.0	.0	.0	.0
Jun	88.7	64.4	76.6	109	1936	20	81.2	1998	44	1969	3	72.3	1974	1	347	.4	16.2	30.0	.0	.0	.0
Jul	93.3	68.4	80.9	112+	1954	13	86.4	1980	52+	1947	23	77.7	1994	0	491	3.4	24.8	31.0	.0	.0	.0
Aug	92.2	66.1	79.2	112+	1936	9	84.8	1980	48	1986	29	74.9	1992	0	438	3.2	22.7	31.0	.0	.0	.0
Sep	85.2	58.3	71.8	109	1947	7	77.8	1998	34	1967	29	66.0	1974	22	224	.8	10.2	30.0	.0	.0	.0
Oct	75.5	45.7	60.6	98	1998	1	66.8	1971	24	1981	24	55.3	1976	174	39	.0	.8	30.9	.0	1.1	.0
Nov	61.1	36.4	48.8	87+	1937	1	54.0	1973	11+	1970	24	41.8	1976	488	0	.0	.0	26.1	@	8.4	.0
Dec	51.5	28.9	40.2	81	1951	31	48.6	1984	-4+	1983	25	27.5	1983	768	0	.0	.0	18.5	1.6	16.8	.2
Ann	72.3	46.9	59.7	112+	Jul 1954	13	86.4	Jul 1980	-11	Jan 1942	8	26.0	Jan 1977	3655	1726	7.8	78.2	321.5	5.8	69.5	.5

\+ 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

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1930-2001

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

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	3.77	3.53	5.96	1969	30	6.94	1982	.21	1986
Feb	3.42	3.24	4.47	1938	18	9.51	1989	1.01	1980
Mar	5.26	4.46	4.30	1934	26	13.70	1975	1.91	1982
Apr	4.99	4.84	4.55	1997	5	13.35	1991	.64	1987
May	5.33	4.78	5.48	1968	11	11.36	1979	1.45	1992
Jun	3.62	3.13	4.40	1960	27	9.78	1976	.22	1988
Jul	3.48	3.33	4.33	1957	30	7.76	1977	.78	1976
Aug	3.02	2.58	4.97	1930	17	6.32	1990	.41	1980
Sep	3.40	3.01	5.47	1962	10	8.13	1977	.62	1971
Oct	4.04	3.34	3.95	1949	21	11.11	1984	.63	1977
Nov	5.76	5.90	6.74	1988	19	12.99	1988	.91	1989
Dec	4.92	4.25	5.86	1952	4	12.60	1987	.91	1981
Ann	51.01	50.61	6.74	Nov 1988	19	13.70	Mar 1975	.21	Jan 1986

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.8	6.4	2.3	1.0
Feb	8.1	5.7	2.4	1.1
Mar	10.3	7.7	3.7	1.5
Apr	9.5	6.8	3.4	1.6
May	10.2	7.7	3.7	1.6
Jun	8.6	6.1	2.4	1.0
Jul	7.8	5.3	2.3	1.2
Aug	6.9	4.6	2.3	1.0
Sep	7.9	5.3	2.2	1.1
Oct	7.2	5.2	2.7	1.5
Nov	8.8	6.4	3.8	2.0
Dec	9.7	6.5	3.1	1.5
Ann	104.8	73.7	34.3	16.1

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.94	1.29	1.84	2.33	2.81	3.32	3.88	4.56	5.44	6.83	8.14
Feb	1.10	1.43	1.91	2.32	2.71	3.12	3.56	4.09	4.76	5.80	6.77
Mar	1.89	2.39	3.10	3.70	4.28	4.86	5.50	6.24	7.19	8.65	10.00
Apr	1.32	1.79	2.51	3.15	3.77	4.43	5.16	6.02	7.15	8.93	10.58
May	1.86	2.36	3.09	3.71	4.30	4.91	5.57	6.34	7.33	8.85	10.26
Jun	.82	1.16	1.69	2.16	2.64	3.15	3.72	4.39	5.29	6.71	8.05
Jul	.85	1.17	1.68	2.13	2.58	3.05	3.58	4.21	5.03	6.34	7.56
Aug	.56	.83	1.27	1.68	2.10	2.55	3.06	3.68	4.50	5.82	7.08
Sep	.83	1.15	1.64	2.08	2.52	2.99	3.50	4.12	4.92	6.20	7.40
Oct	.76	1.12	1.71	2.26	2.82	3.42	4.10	4.93	6.02	7.78	9.45
Nov	1.56	2.11	2.94	3.67	4.38	5.13	5.96	6.94	8.22	10.23	12.11
Dec	1.28	1.75	2.46	3.09	3.71	4.36	5.08	5.93	7.05	8.82	10.46
Ann	37.78	40.39	43.70	46.19	48.40	50.53	52.72	55.13	58.05	62.25	65.87

\+ 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: 1930-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	2.4	.0	#	#
Feb	1.6	.0	#	0
Mar	.5	.0	#	0
Apr	#	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	#	.0	#	0
Nov	.2	.0	#	0
Dec	.2	.0	#	0
Ann	4.9	.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	7.0	1978	12	11.0	1977	14	1988	7	1	1988
Feb	7.5	1979	25	15.0	1979	7	1985	2	1	1985
Mar	6.0	1975	14	6.3	1975	6	1975	14	#+	1998
Apr	#	1973	9	#	1973	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	#	1993	30	#	1993	#	1993	30	#	1993
Nov	3.5	1971	23	3.5	1971	4	1971	23	#+	1976
Dec	2.0	1983	27	2.8	1983	2	1975	26	#+	1995
Ann	7.5	Feb 1979	25	15.0	Feb 1979	14	Jan 1988	7	1+	Jan 1988

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.7	.4	.3	.1	.0
Feb	.6	.4	.2	.2	.0
Mar	.2	.1	@	@	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.1	.1	@	.0	.0
Dec	.2	.1	.0	.0	.0
Ann	1.8	1.1	.5	.3	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.2	.1	.0	.0
Feb	.3	.1	.1	.0
Mar	.1	@	@	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	@	@	.0	.0
Dec	.0	.0	.0	.0
Ann	.6	.2	.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

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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	4/25	4/21	4/17	4/15	4/12	4/10	4/07	4/04	3/30
32	4/16	4/11	4/08	4/06	4/03	4/01	3/29	3/26	3/22
28	4/03	3/29	3/25	3/22	3/19	3/15	3/12	3/08	3/03
24	3/21	3/14	3/09	3/04	2/28	2/24	2/20	2/14	2/07
20	3/08	3/02	2/25	2/21	2/17	2/13	2/09	2/05	1/29
16	3/01	2/20	2/13	2/07	2/02	1/27	1/21	1/13	12/29

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	10/09	10/12	10/15	10/18	10/21	10/24	10/28	11/02
32	10/17	10/21	10/25	10/27	10/30	11/01	11/04	11/07	11/11
28	10/28	11/02	11/06	11/10	11/13	11/16	11/20	11/24	11/29
24	11/05	11/11	11/16	11/20	11/23	11/27	11/30	12/05	12/11
20	11/15	11/23	11/29	12/04	12/09	12/14	12/19	12/25	1/02
16	12/03	12/12	12/17	12/23	12/27	1/01	1/07	1/14	1/27

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	210	202	197	193	188	184	179	174	167
32	228	221	216	212	209	205	201	196	190
28	261	253	248	243	239	234	230	224	217
24	297	287	279	273	267	261	255	248	237
20	324	312	304	298	292	286	280	273	263
16	>365	>365	348	335	326	318	311	302	291

***** 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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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	871	645	442	195	49	1	0	0	22	174	488	768	3655
60	716	511	301	95	14	0	0	0	5	81	345	616	2684
57	631	433	226	54	5	0	0	0	1	45	265	530	2190
55	572	382	183	34	3	0	0	0	0	29	217	472	1892
50	431	267	98	8	0	0	0	0	0	6	120	338	1268
32	88	31	2	0	0	0	0	0	0	0	2	48	171

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	239	310	585	819	1134	1336	1514	1461	1192	888	505	303	10286
55	11	17	54	163	424	646	801	748	502	203	30	14	3613
57	8	12	35	123	365	586	739	686	443	158	18	10	3183
60	0	5	17	74	280	496	646	593	357	101	8	3	2580
65	0	0	3	24	160	347	491	438	224	39	0	0	1726
70	0	0	0	4	74	205	336	289	120	10	0	0	1038

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	119	216	426	660	943	1147	1312	1265	1017	700	353	162	119	335	761	1421	2364	3511	4823	6088	7105	7805	8158	8320
45	59	124	290	511	788	997	1157	1110	867	545	231	81	59	183	473	984	1772	2769	3926	5036	5903	6448	6679	6760
50	28	63	179	368	633	847	1002	955	717	396	138	42	28	91	270	638	1271	2118	3120	4075	4792	5188	5326	5368
55	5	25	95	240	479	697	847	800	567	259	72	18	5	30	125	365	844	1541	2388	3188	3755	4014	4086	4104
60	1	3	42	132	326	547	692	645	421	147	31	1	1	4	46	178	504	1051	1743	2388	2809	2956	2987	2988
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	76	143	267	428	626	783	878	841	684	454	216	100	76	219	486	914	1540	2323	3201	4042	4726	5180	5396	5496

(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:
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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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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 are 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.

a. Temperature/ Precipitation Tables
   1. 1971-2000 Monthly Normals
   2. Cooperative Summary of the Day
   3. National Weather Service station records
   4. 1971-2000 serially complete daily data

b. Degree Day Table
   1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
   2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data

c. Snow Tables
   1. Snow Climatology
   2. Cooperative Summary of the Day

d. Freeze Data Table
   1971-2000 serially complete daily data

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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