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: CLARENDON, AR **COOP ID: 031442**

Climate Division: AR 6 **NWS Call Sign:** **Elevation: 180 Feet** **Lat: 34˚42N** **Lon: 91˚18W**

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	46.7	28.0	37.4	78	1972	24	46.1	1990	-4+	1985	20	25.1	1977	858	0	.0	.0	14.3	3.2	19.7	.1
Feb	53.1	31.8	42.5	85	1986	26	51.2	1990	3	1985	3	29.3	1978	634	2	.0	.0	19.2	1.5	12.0	.0
Mar	62.1	41.2	51.7	86+	1986	31	56.4	1974	15	1996	8	46.0	1980	420	6	.0	.0	27.9	.1	3.9	.0
Apr	71.4	49.3	60.4	93	1987	20	66.2	1981	28+	1968	6	52.9	1983	176	38	.0	.1	29.6	.0	.6	.0
May	80.2	58.8	69.5	95	1996	26	74.8	1987	35	1968	6	64.9	1976	41	180	.0	2.1	31.0	.0	.0	.0
Jun	87.7	67.0	77.4	102	1988	29	82.1	1998	48	1966	1	73.7	1983	0	371	.2	13.7	30.0	.0	.0	.0
Jul	91.6	71.0	81.3	106+	1986	30	85.4	1980	53	1972	7	78.2	1972	0	505	1.6	22.9	31.0	.0	.0	.0
Aug	90.4	68.3	79.4	104	2000	30	84.2	2000	49	1986	28	76.9	1994	0	445	1.0	19.5	31.0	.0	.0	.0
Sep	84.1	60.6	72.4	101	1995	1	77.7	1998	36	1985	29	66.8	1974	22	243	.1	7.9	30.0	.0	.0	.0
Oct	75.1	48.3	61.7	94	1975	11	68.3	1971	28	1982	26	55.9	1976	162	60	.0	.5	30.9	.0	.5	.0
Nov	61.3	39.6	50.5	85+	1984	1	55.6	1990	16	1970	24	42.4	1976	440	4	.0	.0	26.0	@	6.4	.0
Dec	50.7	31.7	41.2	79	1982	3	49.5	1984	-2+	1989	22	31.3	2000	738	0	.0	.0	18.0	1.6	14.6	.1
Ann	71.2	49.6	60.5	106+	Jul 1986	30	85.4	Jul 1980	-4+	Jan 1985	20	25.1	Jan 1977	3491	1854	2.9	66.7	318.9	6.4	57.7	.2

\+ 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: 1948-2001

(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	3.80	3.46	2.58	1989	11	8.02	1999	.67	1986
Feb	3.60	2.99	4.38	1966	10	9.20	1989	.92	1972
Mar	5.30	4.87	4.64	1990	7	11.57	1975	2.16	1983
Apr	5.12	3.89	6.25	1997	5	15.84	1991	1.21	1987
May	5.12	5.03	4.95	1989	9	10.26	1984	1.00	1988
Jun	3.93	3.18	7.03	1960	28	8.59	1992	.69	1988
Jul	3.51	3.49	3.92	1959	23	11.75	1994	.16	2000
Aug	2.35	2.24	3.26	1970	10	5.96	1984	.27	1999
Sep	3.40	2.91	4.68	1965	11	8.45	1977	.47	1995
Oct	3.71	3.07	4.50	1984	7	14.04	1984	.50	2000
Nov	5.08	4.70	4.48	1961	23	11.60	1987	1.42	1976
Dec	4.91	4.38	5.70	1987	24	11.05	1987	1.46	1981
Ann	49.83	49.06	7.03	Jun 1960	28	15.84	Apr 1991	.16	Jul 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.0	6.7	2.7	1.1
Feb	7.6	5.4	2.7	1.2
Mar	9.8	7.7	3.6	1.4
Apr	8.0	6.4	3.6	1.8
May	9.7	7.2	3.5	1.7
Jun	8.3	6.5	2.6	1.0
Jul	6.6	5.0	2.4	1.0
Aug	5.7	4.2	1.6	.7
Sep	7.0	5.2	2.1	1.0
Oct	6.1	4.9	2.4	1.3
Nov	8.8	6.7	3.6	1.8
Dec	8.1	6.7	3.5	1.4
Ann	94.7	72.6	34.3	15.4

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	.88	1.24	1.79	2.29	2.79	3.31	3.90	4.61	5.53	7.00	8.38
Feb	.95	1.29	1.81	2.27	2.72	3.19	3.72	4.34	5.15	6.42	7.61
Mar	2.01	2.50	3.21	3.80	4.36	4.93	5.54	6.26	7.17	8.58	9.86
Apr	1.15	1.63	2.38	3.05	3.73	4.45	5.25	6.21	7.48	9.50	11.40
May	1.67	2.15	2.87	3.48	4.06	4.67	5.34	6.11	7.11	8.67	10.10
Jun	1.22	1.60	2.15	2.63	3.09	3.57	4.09	4.71	5.50	6.74	7.89
Jul	.52	.81	1.32	1.80	2.31	2.86	3.50	4.29	5.34	7.05	8.70
Aug	.38	.58	.92	1.24	1.58	1.94	2.36	2.87	3.55	4.65	5.71
Sep	1.11	1.43	1.90	2.31	2.70	3.10	3.54	4.06	4.72	5.75	6.70
Oct	.75	1.09	1.63	2.13	2.63	3.17	3.78	4.51	5.48	7.03	8.50
Nov	1.64	2.12	2.83	3.44	4.02	4.63	5.29	6.07	7.07	8.62	10.06
Dec	1.66	2.13	2.81	3.38	3.94	4.51	5.13	5.85	6.79	8.23	9.56
Ann	35.86	38.58	42.05	44.68	47.01	49.27	51.59	54.16	57.27	61.77	65.66

\+ 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: 1948-2001
(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	2.8	3.1	#	0
Feb	1.5	.0	#	0
Mar	.0	.0	0	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	0
Dec	.0	.0	0	0
Ann	4.3	3.1	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	1985	4	7.0	1985	7	1985	4	#+	1985
Feb	9.0	1985	1	9.0	1985	9	1985	1	5	1985
Mar	.0	0	0	.0	0	0	0	0	0	0
Apr	.0	0	0	.0	0	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	.0	0	0	.0	0	0	0	0	0	0
Nov	#	1974	30	#	1974	0	0	0	0	0
Dec	.0	0	0	.0	0	0	0	0	0	0
Ann	9.0	Feb 1985	1	9.0	Feb 1985	9	Feb 1985	1	5	Feb 1985

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	-9.9	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-9.9	-9.9	-9.9
Apr	-9.9	-9.9	-9.9	-9.9	-9.9
May	-9.9	-9.9	-9.9	-9.9	-9.9
Jun	-9.9	-9.9	-9.9	-9.9	-9.9
Jul	-9.9	-9.9	-9.9	-9.9	-9.9
Aug	-9.9	-9.9	-9.9	-9.9	-9.9
Sep	-9.9	-9.9	-9.9	-9.9	-9.9
Oct	-9.9	-9.9	-9.9	-9.9	-9.9
Nov	-9.9	-9.9	-9.9	-9.9	-9.9
Dec	-9.9	-9.9	-9.9	-9.9	-9.9
Ann	-9.9	-9.9	-9.9	-9.9	-9.9

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.1	.1	.0
Feb	.1	.0	.0	.0
Mar	.0	.0	.0	.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	.0	.0
Dec	.0	.0	.0	.0
Ann	.2	.1	.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	4/19	4/13	4/09	4/05	4/02	3/30	3/26	3/22	3/16
32	4/12	4/05	3/31	3/27	3/23	3/19	3/15	3/10	3/03
28	3/25	3/18	3/14	3/10	3/07	3/03	2/27	2/23	2/17
24	3/11	3/04	2/26	2/21	2/17	2/13	2/08	2/03	1/26
20	3/04	2/24	2/17	2/12	2/07	2/02	1/27	1/20	1/06
16	2/23	2/13	2/06	1/30	1/24	1/17	1/08	12/23	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	10/07	10/12	10/16	10/19	10/22	10/25	10/28	11/01	11/06
32	10/19	10/24	10/28	11/01	11/04	11/07	11/10	11/14	11/20
28	11/03	11/08	11/13	11/16	11/20	11/23	11/27	12/01	12/07
24	11/12	11/19	11/24	11/28	12/03	12/07	12/11	12/16	12/23
20	11/20	12/03	12/12	12/19	12/27	1/03	1/12	1/23	2/12
16	12/08	12/17	12/23	12/29	1/04	1/10	1/18	2/01	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	224	217	211	207	202	198	193	188	180
32	254	244	237	231	225	219	213	206	196
28	282	274	268	262	257	252	247	241	232
24	319	309	301	294	288	281	275	267	256
20	>365	>365	347	328	317	308	300	290	278
16	>365	>365	>365	>365	349	337	327	317	305

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	858	634	420	176	41	0	0	0	22	162	440	738	3491
60	706	503	281	86	12	0	0	0	5	79	304	587	2563
57	621	427	209	49	5	0	0	0	2	46	232	501	2092
55	563	379	168	31	2	0	0	0	0	30	189	444	1806
50	426	271	88	7	0	0	0	0	0	8	103	313	1216
32	93	41	2	0	0	0	0	0	0	0	2	40	178

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	258	334	611	851	1162	1361	1528	1468	1212	920	555	325	10585
55	15	28	64	192	451	671	815	755	522	237	52	16	3818
57	11	20	43	150	391	611	753	693	463	191	35	11	3372
60	3	12	21	98	305	521	660	600	377	131	18	4	2750
65	0	2	6	38	180	371	505	445	243	60	4	0	1854
70	0	0	0	10	87	226	350	293	135	20	0	0	1121

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	217	434	659	941	1144	1299	1239	994	706	363	171	119	336	770	1429	2370	3514	4813	6052	7046	7752	8115	8286
45	61	125	299	510	786	994	1144	1084	844	551	239	87	61	186	485	995	1781	2775	3919	5003	5847	6398	6637	6724
50	27	65	179	370	631	844	989	929	694	402	143	45	27	92	271	641	1272	2116	3105	4034	4728	5130	5273	5318
55	8	26	92	236	476	694	834	774	544	265	73	15	8	34	126	362	838	1532	2366	3140	3684	3949	4022	4037
60	0	3	42	135	324	544	679	619	401	148	32	1	0	3	45	180	504	1048	1727	2346	2747	2895	2927	2928
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	70	133	251	408	625	790	885	846	667	456	217	95	70	203	454	862	1487	2277	3162	4008	4675	5131	5348	5443

(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.
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