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: WALDRON, AR **COOP ID: 037488**

Climate Division: AR 4 **NWS Call Sign:** **Elevation: 675 Feet** **Lat: 34˚54N** **Lon: 94˚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	50.6	28.4	39.5	82	1952	19	45.9	1990	-10	1962	11	29.2	1979	791	0	.0	.0	18.1	1.7	21.8	.2
Feb	56.8	32.2	44.5	89	1996	21	53.2	1976	-20	1951	2	34.1	1978	574	0	.0	.0	20.8	.9	16.2	.1
Mar	65.4	40.4	52.9	95	1974	31	59.0	1974	9+	1948	11	47.4	1996	382	6	.0	@	28.9	@	8.1	.0
Apr	74.2	48.1	61.2	94+	1987	18	67.3	1981	22+	1954	1	55.5	1983	152	36	.0	.4	29.9	.0	1.9	.0
May	80.4	57.0	68.7	96+	1951	29	73.8	1996	32	1960	1	63.7	1976	45	160	.0	2.4	31.0	.0	.0	.0
Jun	87.4	64.9	76.2	105+	1953	21	80.2	1998	44+	1956	2	72.0	1995	2	336	.5	14.5	30.0	.0	.0	.0
Jul	92.4	68.4	80.4	111	1980	17	85.7	1980	49+	1970	22	76.4	1994	0	477	4.8	24.9	31.0	.0	.0	.0
Aug	91.9	66.9	79.4	109	1956	6	85.4	1980	46	1956	22	74.3	1992	1	448	4.6	23.7	31.0	.0	.0	.0
Sep	84.6	60.0	72.3	107+	2000	1	79.5	1998	30	1985	27	66.9	1974	26	246	1.1	10.9	30.0	.0	.1	.0
Oct	74.8	48.7	61.8	99	1953	1	65.5	1973	20	1952	29	56.6	1976	142	40	.0	1.4	30.9	.0	2.1	.0
Nov	61.7	38.9	50.3	87+	1955	14	55.9	1999	6	1976	29	43.7	2000	443	2	.0	.0	26.6	@	9.9	.0
Dec	52.7	31.3	42.0	82+	1951	31	50.1	1984	-7	1989	23	30.2	1983	714	0	.0	.0	20.8	1.0	18.9	.1
Ann	72.7	48.8	60.8	111	Jul 1980	17	85.7	Jul 1980	-20	Feb 1951	2	29.2	Jan 1979	3272	1751	11.0	78.2	329.0	3.6	79.0	.4

\+ 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	3.06	2.70	4.40	1949	24	6.48	1982	.35	1988
Feb	2.95	2.43	4.42	1950	12	6.85	1989	.48	1995
Mar	4.20	4.14	3.52	1977	28	9.77	1973	1.39	1972
Apr	4.60	4.54	4.23	1972	21	9.14	1991	.66	1987
May	5.92	5.65	5.42	1990	3	15.56	1990	1.06	1972
Jun	5.14	4.59	4.28	1974	7	11.74	1974	1.28	1990
Jul	3.48	2.95	5.29	1969	27	8.99	1981	.12	1993
Aug	2.82	2.75	4.50	1957	12	6.94	1996	.00	1980
Sep	4.06	3.94	6.21	1965	22	9.54	1974	.21	1982
Oct	4.13	3.68	4.08	1972	31	17.27	1984	.13	1978
Nov	4.98	4.58	4.95	1994	5	14.73	1996	.51	1989
Dec	4.34	3.97	6.52	1982	3	10.67	1971	.48	1981
Ann	49.68	48.27	6.52	Dec 1982	3	17.27	Oct 1984	.00	Aug 1980

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.8	5.7	1.8	.6
Feb	6.8	5.1	2.2	.9
Mar	8.8	6.9	3.3	1.2
Apr	8.5	6.7	3.3	1.4
May	10.2	8.4	4.5	1.6
Jun	7.9	6.7	3.3	1.7
Jul	6.9	5.4	2.4	1.0
Aug	6.5	5.2	1.9	.7
Sep	7.5	5.9	3.0	1.2
Oct	6.5	5.3	2.5	1.4
Nov	7.6	6.0	3.3	1.9
Dec	7.6	5.7	2.9	1.3
Ann	92.6	73.0	34.4	14.9

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	.76	1.05	1.49	1.89	2.28	2.69	3.15	3.70	4.41	5.55	6.61
Feb	.62	.90	1.33	1.72	2.11	2.54	3.01	3.58	4.33	5.53	6.66
Mar	1.55	1.94	2.51	2.98	3.43	3.90	4.40	4.98	5.72	6.87	7.91
Apr	1.34	1.78	2.43	3.00	3.56	4.13	4.77	5.52	6.50	8.02	9.44
May	1.37	1.93	2.79	3.57	4.34	5.16	6.08	7.18	8.61	10.90	13.05
Jun	1.28	1.76	2.51	3.18	3.83	4.52	5.30	6.22	7.42	9.32	11.10
Jul	.56	.86	1.37	1.85	2.34	2.88	3.50	4.25	5.26	6.90	8.46
Aug	.56	.95	1.42	1.81	2.17	2.55	2.96	3.45	4.08	5.06	5.98
Sep	.98	1.36	1.95	2.48	3.00	3.56	4.18	4.91	5.88	7.41	8.84
Oct	.48	.79	1.37	1.95	2.56	3.25	4.05	5.04	6.40	8.63	10.79
Nov	.84	1.27	2.00	2.68	3.38	4.14	5.01	6.07	7.48	9.77	11.95
Dec	1.05	1.46	2.10	2.66	3.22	3.81	4.47	5.26	6.29	7.92	9.45
Ann	34.25	37.20	41.00	43.90	46.48	48.98	51.57	54.44	57.94	63.02	67.43

\+ 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	3.0	.7	#	#
Feb	1.5	.0	#	0
Mar	.2	.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	0	0
Nov	.4	.0	#	0
Dec	.4	.0	#	0
Ann	5.5	.7	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	8.0	2000	28	15.9	1978	8	1995	23	2	1978
Feb	10.0	1979	25	19.0	1979	10	1979	25	2	1979
Mar	2.0	1975	16	2.5	1975	2	1994	9	#+	1995
Apr	#	1980	13	#+	1980	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	3.0	1975	27	3.0+	1976	2	1976	29	#+	1995
Dec	3.0	1971	3	3.0+	1972	11	1975	25	1	1975
Ann	10.0	Feb 1979	25	19.0	Feb 1979	11	Dec 1975	25	2+	Feb 1979

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.4	.9	.4	.2	.0
Feb	.7	.6	.2	.2	@
Mar	.2	.1	.0	.0	.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	.2	.2	@	.0	.0
Dec	.4	.2	@	.0	.0
Ann	2.9	2.0	.6	.4	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	1.7	.5	.2	.0
Feb	.5	.1	.1	.0
Mar	@	.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	.1	.0	.0	.0
Dec	.3	.0	.0	.0
Ann	2.6	.6	.3	.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	5/03	4/28	4/25	4/22	4/20	4/17	4/15	4/11	4/07
32	4/19	4/15	4/12	4/10	4/07	4/05	4/03	3/31	3/27
28	4/11	4/06	4/02	3/30	3/27	3/24	3/21	3/17	3/12
24	4/04	3/26	3/20	3/15	3/11	3/06	3/01	2/23	2/15
20	3/15	3/08	3/02	2/25	2/21	2/16	2/12	2/06	1/29
16	3/04	2/25	2/19	2/14	2/09	2/05	1/31	1/25	1/17

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	9/22	9/27	10/01	10/04	10/08	10/11	10/14	10/18	10/23
32	10/02	10/08	10/13	10/17	10/20	10/24	10/28	11/01	11/08
28	10/15	10/21	10/26	10/30	11/03	11/07	11/11	11/15	11/22
24	10/26	11/02	11/07	11/11	11/15	11/19	11/24	11/29	12/06
20	11/07	11/15	11/21	11/26	11/30	12/05	12/10	12/15	12/23
16	11/17	11/29	12/07	12/14	12/21	12/28	1/04	1/13	1/25

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	190	183	178	174	170	166	162	157	150
32	219	211	205	200	195	190	185	179	171
28	246	237	231	225	220	215	209	203	194
24	285	273	264	256	249	242	234	226	213
20	314	303	295	288	282	275	268	260	249
16	357	337	326	318	310	303	295	286	274

***** 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	791	574	382	152	45	2	0	1	26	142	443	714	3272
60	637	444	244	66	12	0	0	0	7	56	306	564	2336
57	551	367	176	33	4	0	0	0	2	27	232	478	1870
55	492	318	138	19	2	0	0	0	0	14	189	421	1593
50	354	213	65	3	0	0	0	0	0	2	103	292	1032
32	47	18	0	0	0	0	0	0	0	0	2	31	98

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	279	367	648	874	1139	1325	1500	1470	1209	921	551	340	10623
55	11	24	72	204	427	635	787	757	519	222	47	17	3722
57	8	16	48	158	368	575	725	695	461	173	30	12	3269
60	1	9	24	101	282	485	632	602	376	109	14	5	2640
65	0	0	6	36	160	336	477	448	246	40	2	0	1751
70	0	0	0	8	73	198	323	302	143	9	0	0	1056

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	124	220	433	654	913	1103	1274	1238	993	698	346	160	124	344	777	1431	2344	3447	4721	5959	6952	7650	7996	8156
45	60	128	296	505	758	953	1119	1083	843	544	226	83	60	188	484	989	1747	2700	3819	4902	5745	6289	6515	6598
50	26	66	182	361	603	803	964	928	693	393	130	41	26	92	274	635	1238	2041	3005	3933	4626	5019	5149	5190
55	6	26	99	232	449	653	809	773	543	257	66	19	6	32	131	363	812	1465	2274	3047	3590	3847	3913	3932
60	0	5	45	128	300	503	654	618	399	144	27	2	0	5	50	178	478	981	1635	2253	2652	2796	2823	2825
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	101	165	289	430	608	747	838	810	659	465	230	119	101	266	555	985	1593	2340	3178	3988	4647	5112	5342	5461

(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