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: ALICIA, AR **COOP ID: 030064**

Climate Division: AR 3 **NWS Call Sign:** **Elevation: 256 Feet** **Lat: 35˚54N** **Lon: 91˚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	44.9	25.6	35.3	76	1967	23	43.6	1990	-10+	1977	11	23.1	1977	922	0	.0	.0	11.9	3.7	21.5	.4
Feb	51.5	29.4	40.5	80+	1980	28	48.6	1976	-1+	1979	9	27.6	1978	687	0	.0	.0	17.0	1.4	14.6	.1
Mar	61.2	38.4	49.8	88	1967	12	54.7+	1976	13	1980	2	44.0	1971	472	2	.0	.0	27.1	.2	6.4	.0
Apr	71.3	47.2	59.3	96+	1987	20	66.1	1981	26+	1971	7	54.2	1983	202	30	.0	.4	29.9	.0	1.0	.0
May	80.6	58.6	69.6	97+	1977	30	75.1	1987	34	1971	3	64.7	1976	44	186	.0	3.5	31.0	.0	.0	.0
Jun	89.0	67.4	78.2	103+	1978	30	80.9	1998	44	1984	1	73.3	1974	0	396	.7	16.0	30.0	.0	.0	.0
Jul	93.1	71.5	82.3	113	1980	16	89.2	1980	46	1975	14	77.9	1994	0	537	4.3	23.5	31.0	.0	.0	.0
Aug	91.7	69.0	80.4	107+	1964	4	86.9	1980	48	1986	29	75.5	1992	0	477	3.1	21.4	31.0	.0	.0	.0
Sep	84.4	60.8	72.6	104	1980	9	77.6	1986	33	1967	29	65.0	1974	22	250	.6	8.9	30.0	.0	.0	.0
Oct	74.7	49.1	61.9	95	1998	1	68.0	1971	25+	1981	24	56.3	1976	153	56	.0	.8	30.9	.0	.9	.0
Nov	59.6	38.5	49.1	84	1987	4	56.6	1999	12	1976	29	40.6	1976	481	3	.0	.0	24.8	@	7.4	.0
Dec	48.9	30.5	39.7	77	1982	2	47.6	1984	-6	1989	23	28.1	1983	785	0	.0	.0	16.0	1.9	16.6	.2
Ann	70.9	48.8	59.9	113	Jul 1980	16	89.2	Jul 1980	-10+	Jan 1977	11	23.1	Jan 1977	3768	1937	8.7	74.5	310.6	7.2	68.4	.7

\+ 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

Issue Date: February 2004

(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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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	3.26	3.09	4.89	1969	30	10.40	1982	.70	1981
Feb	3.26	3.03	3.80	1950	12	8.24	1989	.39	1999
Mar	4.53	3.91	3.25	1975	29	12.17	1975	1.57	1999
Apr	4.54	4.30	3.42	1973	20	11.33	1991	.37	1987
May	4.60	4.29	4.61	1963	26	10.71	1984	1.09	1994
Jun	3.21	3.04	3.28	1968	26	6.89	1994	.65	1984
Jul	2.97	2.65	3.96	1949	8	6.95	1978	.00+	1997
Aug	2.91	2.42	3.65	1951	18	11.93	1975	.26	1989
Sep	3.42	3.20	5.30	1965	11	9.56	1977	.51	1976
Oct	3.61	3.20	4.35	1998	6	10.12	1984	.11	1971
Nov	4.89	4.97	3.61	1957	18	8.89	1988	.89	1999
Dec	4.40	3.46	4.42	1990	22	10.50	1990	1.04	1981
Ann	45.60	45.73	5.30	Sep 1965	11	12.17	Mar 1975	.00+	Jul 1997

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.6	5.5	2.4	.9
Feb	5.8	4.9	2.4	.8
Mar	7.9	7.1	3.3	1.1
Apr	7.6	6.3	3.3	1.5
May	8.7	7.1	3.0	1.2
Jun	6.1	5.3	2.6	.8
Jul	5.7	4.8	1.9	.8
Aug	5.4	4.6	1.9	.8
Sep	6.2	4.9	2.1	1.2
Oct	5.6	4.6	2.4	1.3
Nov	7.4	6.4	3.3	1.7
Dec	7.0	5.9	3.3	1.4
Ann	80.0	67.4	31.9	13.5

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	.85	1.15	1.63	2.04	2.45	2.89	3.37	3.93	4.68	5.85	6.94
Feb	.77	1.07	1.55	1.98	2.40	2.85	3.35	3.95	4.74	5.99	7.16
Mar	1.60	2.03	2.65	3.17	3.67	4.18	4.73	5.38	6.21	7.49	8.66
Apr	1.12	1.55	2.21	2.80	3.38	3.99	4.68	5.49	6.56	8.25	9.83
May	1.55	1.99	2.62	3.16	3.68	4.22	4.80	5.48	6.36	7.71	8.96
Jun	1.03	1.33	1.78	2.17	2.54	2.92	3.34	3.84	4.47	5.46	6.37
Jul	.00	.55	1.15	1.62	2.08	2.56	3.10	3.71	4.54	5.87	7.13
Aug	.36	.59	1.00	1.40	1.83	2.31	2.86	3.55	4.48	6.01	7.49
Sep	.52	.81	1.31	1.78	2.27	2.81	3.42	4.18	5.19	6.83	8.41
Oct	.61	.93	1.46	1.95	2.46	3.01	3.64	4.40	5.42	7.07	8.64
Nov	1.48	1.95	2.64	3.24	3.82	4.42	5.08	5.86	6.86	8.43	9.89
Dec	1.00	1.41	2.05	2.63	3.21	3.82	4.51	5.33	6.42	8.14	9.76
Ann	30.58	33.42	37.09	39.91	42.42	44.86	47.40	50.22	53.65	58.67	63.03

\+ 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	3.0	#	0
Feb	1.6	.0	#	0
Mar	.9	.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	.3	.0	#	0
Ann	5.8	3.0	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	8.0	1988	7	9.9	1985	6	2000	28	#+	2000
Feb	6.5	1985	1	8.0	1978	7	1993	15	#+	1997
Mar	5.0	1991	29	5.0	1991	5	1991	29	#+	1991
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	4.0	1990	28	5.5	1985	3+	2000	13	#+	2000
Ann	8.0	Jan 1988	7	9.9	Jan 1985	7	Feb 1993	15	#+	Dec 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.9	.7	.6	.2	.0
Feb	.7	.6	.4	.1	.0
Mar	.3	.2	.2	@	.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	.0	.0	.0	.0	.0
Dec	.3	.2	.1	.0	.0
Ann	2.2	1.7	1.3	.3	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.1	.1	.0
Feb	.0	.0	.0	.0
Mar	.1	.1	.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	.0	.0
Dec	.0	.0	.0	.0
Ann	.2	.2	.2	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	4/24	4/20	4/16	4/13	4/10	4/08	4/05	4/01	3/27
32	4/16	4/10	4/06	4/02	3/30	3/26	3/23	3/18	3/12
28	4/05	3/29	3/24	3/20	3/16	3/11	3/07	3/02	2/23
24	3/18	3/11	3/05	3/01	2/25	2/20	2/16	2/10	2/03
20	3/07	2/27	2/22	2/18	2/13	2/09	2/05	1/30	1/23
16	3/06	2/23	2/15	2/08	2/02	1/26	1/19	1/10	12/28

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	10/01	10/07	10/11	10/15	10/18	10/22	10/25	10/29	11/04
32	10/12	10/19	10/23	10/27	10/30	11/03	11/07	11/11	11/18
28	10/30	11/05	11/09	11/13	11/16	11/20	11/23	11/27	12/03
24	11/08	11/15	11/20	11/25	11/29	12/04	12/08	12/13	12/21
20	11/10	11/21	11/30	12/07	12/14	12/20	12/27	1/05	1/16
16	11/26	12/07	12/15	12/22	12/28	1/04	1/11	1/20	2/02

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	213	205	200	195	190	186	181	175	167
32	239	230	224	219	214	209	204	198	189
28	269	261	255	250	245	240	235	229	221
24	311	299	291	284	277	270	263	255	243
20	338	321	312	304	298	291	285	277	266
16	>365	>365	344	332	323	315	307	298	286

***** 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	922	687	472	202	44	0	0	0	22	153	481	785	3768
60	767	551	329	104	13	0	0	0	5	71	343	631	2814
57	679	473	251	63	5	0	0	0	1	40	268	545	2325
55	622	422	205	42	3	0	0	0	0	26	222	487	2029
50	480	302	113	11	0	0	0	0	0	6	130	350	1392
32	118	45	2	0	0	0	0	0	0	0	4	51	220

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	219	282	555	818	1165	1385	1560	1500	1218	926	516	289	10433
55	10	15	45	170	455	695	847	787	528	239	44	12	3847
57	5	10	28	131	396	635	785	725	469	191	29	8	3412
60	0	4	14	82	310	545	692	632	383	129	15	1	2807
65	0	0	2	30	186	396	537	477	250	56	3	0	1937
70	0	0	0	7	93	250	382	327	143	17	0	0	1219

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	89	181	383	636	932	1151	1309	1251	989	689	328	135	89	270	653	1289	2221	3372	4681	5932	6921	7610	7938	8073
45	41	103	250	486	777	1001	1154	1096	839	535	213	63	41	144	394	880	1657	2658	3812	4908	5747	6282	6495	6558
50	19	48	150	348	622	851	999	941	689	387	121	27	19	67	217	565	1187	2038	3037	3978	4667	5054	5175	5202
55	1	18	76	219	468	701	844	786	539	247	59	8	1	19	95	314	782	1483	2327	3113	3652	3899	3958	3966
60	0	2	32	116	318	551	689	631	396	139	22	0	0	2	34	150	468	1019	1708	2339	2735	2874	2896	2896
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	56	114	229	402	615	783	878	838	657	446	195	78	56	170	399	801	1416	2199	3077	3915	4572	5018	5213	5291

(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