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: DES ARC, AR **COOP ID: 031968**

Climate Division: AR 6 **NWS Call Sign:** **Elevation: 200 Feet** **Lat: 34˚59N** **Lon: 91˚30W**

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	47.0	29.6	38.3	80+	1950	26	45.6	1990	-5	1985	20	27.2	1979	828	0	.0	.0	13.9	3.5	19.1	.1
Feb	53.5	34.1	43.8	82	1962	13	51.3	1976	-4	1951	2	30.3	1978	594	1	.0	.0	18.8	1.7	11.3	.0
Mar	62.4	42.9	52.7	88	1963	31	57.7	1974	15+	1978	5	46.5	1996	393	9	.0	.0	27.3	@	4.2	.0
Apr	71.7	51.1	61.4	93	1987	21	66.6	1981	29	1975	4	55.3	1983	150	42	.0	.1	29.6	.0	.4	.0
May	80.4	60.5	70.5	98	1951	31	76.3	1987	37	1954	4	65.5	1976	35	203	.0	3.0	31.0	.0	.0	.0
Jun	88.3	68.4	78.4	105+	1954	29	83.2	1998	46	1956	2	72.7	1974	0	402	.5	15.2	30.0	.0	.0	.0
Jul	92.6	72.5	82.6	108+	1952	29	87.0	1980	55	1959	3	79.3	1972	0	543	2.5	23.8	31.0	.0	.0	.0
Aug	91.5	70.4	81.0	109	1986	1	85.6	2000	48	1956	22	75.8	1992	0	494	2.3	21.4	31.0	.0	.0	.0
Sep	84.4	62.4	73.4	104+	1951	1	77.6	1972	34	1949	30	66.7	1974	12	264	.4	8.9	30.0	.0	.0	.0
Oct	75.1	51.1	63.1	98	1953	1	69.0	1971	23	1952	29	57.3	1976	124	65	.0	.8	30.9	.0	.3	.0
Nov	61.0	41.6	51.3	87+	1950	1	56.8	1990	13	1950	25	45.0	1976	416	4	.0	.0	25.4	.1	4.9	.0
Dec	50.8	33.1	42.0	79+	1955	25	51.8	1984	-2	1989	23	31.8	2000	714	0	.0	.0	18.0	1.8	14.2	.1
Ann	71.6	51.5	61.5	109	Aug 1986	1	87.0	Jul 1980	-5	Jan 1985	20	27.2	Jan 1979	3266	2027	5.7	73.2	316.9	7.1	54.4	.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

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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	3.61	3.39	4.06	1969	30	8.24	1994	.43	1986
Feb	3.90	3.35	4.48	1966	10	12.66	1989	1.36	1972
Mar	5.07	4.34	3.55	1950	26	9.97	1973	2.40	1982
Apr	5.83	5.12	6.37	1974	22	15.85	1973	1.12	1989
May	4.79	4.56	6.92	1955	27	13.00	1979	1.56	1992
Jun	3.90	3.54	4.41	1960	28	10.68	1974	.97	1988
Jul	3.10	2.38	4.62	1957	30	9.16	1979	.77	1976
Aug	2.33	1.89	4.72	1950	24	7.13	1984	.00	2000
Sep	3.23	2.54	4.21	1965	11	8.64	1977	1.07	1985
Oct	3.75	3.38	4.62	1991	30	11.18	1984	.64	1978
Nov	5.30	4.98	6.50	1988	19	13.70	1988	1.33	1999
Dec	4.63	4.06	5.50	1987	25	13.88	1987	.54	1981
Ann	49.44	47.74	6.92	May 1955	27	15.85	Apr 1973	.00	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.5	6.0	2.4	.8
Feb	7.3	5.3	2.8	1.2
Mar	9.9	7.7	3.6	1.6
Apr	8.2	6.8	3.8	1.9
May	8.8	7.0	3.2	1.4
Jun	8.2	5.9	2.5	1.3
Jul	6.3	4.9	2.1	.9
Aug	5.0	3.6	1.8	.6
Sep	6.6	5.1	2.2	.9
Oct	5.8	4.6	2.4	1.0
Nov	8.1	6.5	3.4	1.6
Dec	8.3	6.3	2.7	1.3
Ann	91.0	69.7	32.9	14.5

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	.79	1.12	1.65	2.13	2.61	3.12	3.70	4.39	5.29	6.74	8.10
Feb	1.19	1.56	2.11	2.58	3.04	3.52	4.05	4.67	5.47	6.72	7.88
Mar	2.07	2.54	3.19	3.73	4.24	4.76	5.31	5.96	6.77	8.01	9.14
Apr	1.59	2.14	2.98	3.72	4.44	5.19	6.03	7.02	8.31	10.34	12.23
May	1.68	2.13	2.79	3.34	3.87	4.41	5.01	5.70	6.58	7.94	9.19
Jun	1.18	1.55	2.10	2.58	3.04	3.52	4.05	4.67	5.48	6.73	7.89
Jul	.70	.99	1.44	1.85	2.26	2.69	3.18	3.76	4.52	5.74	6.89
Aug	.17	.41	.78	1.12	1.48	1.87	2.32	2.87	3.62	4.84	6.01
Sep	.75	1.05	1.52	1.95	2.37	2.81	3.32	3.91	4.70	5.95	7.12
Oct	.79	1.14	1.69	2.19	2.69	3.23	3.83	4.55	5.51	7.04	8.48
Nov	1.63	2.13	2.88	3.52	4.15	4.80	5.51	6.34	7.43	9.11	10.67
Dec	1.03	1.46	2.14	2.75	3.36	4.01	4.74	5.62	6.77	8.61	10.34
Ann	35.04	37.82	41.39	44.09	46.50	48.82	51.22	53.88	57.10	61.78	65.82

\+ 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

Complete documentation available from:
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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	1.0	.0	#	0
Feb	1.1	.0	#	0
Mar	.4	.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	.2	.0	0	0
Dec	.1	.0	#	0
Ann	2.8	.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	12.0	1988	7	12.0	1988	3	1973	7	#	1973
Feb	8.0	1985	1	10.0	1985	#	1998	20	#	1998
Mar	3.5	1971	3	3.5	1971	#	1998	11	#	1998
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	3.0	1971	23	3.0	1971	0	0	0	0	0
Dec	.5	1988	28	.5	1988	1	1988	29	#+	1995
Ann	12.0	Jan 1988	7	12.0	Jan 1988	3	Jan 1973	7	#+	Mar 1998

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.4	.3	.2	.1	.1
Feb	.3	.2	.1	.1	.0
Mar	.1	.1	.1	.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	.1	.1	.1	.0	.0
Dec	.1	.0	.0	.0	.0
Ann	1.0	.7	.5	.2	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.1	.0	.0
Feb	.0	.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	.1	.1	.0	.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	4/16	4/12	4/08	4/06	4/03	3/31	3/29	3/25	3/21
32	4/11	4/04	3/31	3/27	3/23	3/19	3/15	3/11	3/04
28	3/25	3/18	3/12	3/08	3/04	2/27	2/23	2/18	2/10
24	3/09	3/02	2/24	2/20	2/15	2/11	2/07	2/01	1/25
20	3/06	2/24	2/17	2/10	2/04	1/29	1/23	1/15	1/05
16	2/24	2/14	2/07	1/31	1/25	1/18	1/09	12/24	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	10/14	10/19	10/23	10/26	10/29	11/01	11/05	11/08	11/14
32	10/23	10/29	11/03	11/06	11/10	11/13	11/17	11/21	11/27
28	11/07	11/13	11/18	11/22	11/25	11/29	12/03	12/08	12/14
24	11/15	11/24	11/30	12/05	12/10	12/15	12/21	12/27	1/05
20	11/25	12/06	12/14	12/20	12/27	1/02	1/09	1/17	1/27
16	12/08	12/17	12/24	12/30	1/04	1/11	1/18	2/02	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	230	223	217	213	209	204	200	194	187
32	258	249	242	236	231	226	220	213	204
28	295	285	278	272	266	260	254	247	237
24	328	316	308	301	295	289	282	275	264
20	>365	350	337	328	320	312	304	294	281
16	>365	>365	>365	>365	353	338	327	317	304

***** 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	828	594	393	150	35	0	0	0	12	124	416	714	3266
60	675	464	258	67	9	0	0	0	2	52	282	567	2376
57	590	388	191	35	3	0	0	0	0	26	212	480	1925
55	532	340	153	20	1	0	0	0	0	15	171	424	1656
50	395	234	79	4	0	0	0	0	0	3	91	298	1104
32	73	25	1	0	0	0	0	0	0	0	1	37	137

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	268	356	640	882	1192	1392	1566	1517	1242	964	579	346	10944
55	14	27	79	213	480	702	853	804	552	267	59	20	4070
57	10	19	55	167	420	642	791	742	492	216	39	14	3607
60	2	11	29	109	333	552	698	649	404	148	20	8	2963
65	0	1	9	42	203	402	543	494	264	65	4	0	2027
70	0	0	0	11	105	257	388	342	148	20	0	0	1271

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	122	221	429	670	962	1160	1320	1267	1009	729	376	174	122	343	772	1442	2404	3564	4884	6151	7160	7889	8265	8439
45	61	129	295	521	807	1010	1165	1112	859	575	254	91	61	190	485	1006	1813	2823	3988	5100	5959	6534	6788	6879
50	27	66	185	378	652	860	1010	957	709	423	151	48	27	93	278	656	1308	2168	3178	4135	4844	5267	5418	5466
55	12	28	100	246	498	710	855	802	559	285	78	16	12	40	140	386	884	1594	2449	3251	3810	4095	4173	4189
60	0	3	45	139	346	560	700	647	412	170	36	3	0	3	48	187	533	1093	1793	2440	2852	3022	3058	3061
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	68	130	248	412	644	799	897	861	675	464	214	94	68	198	446	858	1502	2301	3198	4059	4734	5198	5412	5506

(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