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: MONTICELLO 3 SW, AR **COOP ID: 034900**

Climate Division: AR 9 **NWS Call Sign:** **Elevation: 290 Feet** **Lat: 33˚36N** **Lon: 91˚49W**

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	52.0	30.4	41.2	83	1972	25	47.5	1990	-6	1982	11	32.0	1977	738	0	.0	.0	17.5	2.2	19.0	.1
Feb	57.8	34.2	46.0	84+	1954	9	55.7	1976	-6	1951	2	34.6	1978	533	2	.0	.0	20.4	1.2	13.1	.0
Mar	66.0	42.6	54.3	89+	1966	31	60.4	1974	11	1980	3	49.0	1980	339	8	.0	.0	28.5	@	5.2	.0
Apr	74.0	49.4	61.7	95	1987	22	69.9	1981	22	1971	6	56.3	1983	151	52	.0	.2	29.7	.0	1.3	.0
May	81.7	58.6	70.2	98	1951	31	74.7	1996	36	1960	12	64.6	1976	31	191	.0	1.7	31.0	.0	.0	.0
Jun	88.8	66.3	77.6	103	1956	25	82.1	1998	46	1969	3	74.1	1976	0	377	@	13.1	30.0	.0	.0	.0
Jul	92.5	69.7	81.1	107	1980	18	84.6	1998	52+	1952	9	78.4	1989	0	499	1.3	22.8	31.0	.0	.0	.0
Aug	92.2	68.0	80.1	107	2000	31	85.7	2000	49+	1956	22	75.4	1992	0	467	1.6	21.2	31.0	.0	.0	.0
Sep	86.4	61.8	74.1	108+	2000	1	79.2	1998	35	1982	22	68.4	1974	11	283	.7	10.7	30.0	.0	.0	.0
Oct	76.5	49.9	63.2	96	1998	2	68.9	1971	24	1993	31	55.9	1976	128	73	.0	.8	30.9	.0	1.2	.0
Nov	64.4	41.4	52.9	87	1955	14	58.7	1985	11	1979	30	44.7	1976	371	8	.0	.0	26.8	.1	7.0	.0
Dec	55.4	33.7	44.6	82	1982	3	53.5	1984	0	1983	25	33.9	1983	635	0	.0	.0	20.8	1.1	15.6	@
Ann	74.0	50.5	62.3	108+	Sep 2000	1	85.7	Aug 2000	-6+	Jan 1982	11	32.0	Jan 1977	2937	1960	3.6	70.5	327.6	4.6	62.4	.1

+ 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

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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	5.14	4.24	5.51	1999	29	15.21	1999	.37	1986
Feb	4.61	3.98	5.91	1991	19	10.62	1990	.71	1972
Mar	5.69	5.81	3.17	1990	8	12.37	1990	2.04	1982
Apr	5.23	4.72	5.52	1997	5	20.70	1991	1.10	1981
May	4.77	4.60	4.91	1953	4	9.44	1975	.87	1985
Jun	4.55	4.75	5.95	1992	3	11.80	1992	1.38	1993
Jul	4.07	3.53	4.11	1953	19	12.63	1989	.42	1993
Aug	3.32	2.57	3.76	1975	18	12.25	1984	.12	1980
Sep	3.21	2.65	4.90	1968	16	8.03	1980	1.05+	1991
Oct	4.35	3.51	5.27	1984	7	15.29	1984	.37	2000
Nov	5.20	4.37	5.00	2000	24	11.13	1987	2.03	1981
Dec	5.19	4.90	4.59	1983	3	13.70	1982	.87	1980
Ann	55.33	51.81	5.95	Jun 1992	3	20.70	Apr 1991	.12	Aug 1980

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.3	7.4	3.3	1.6
Feb	7.8	6.0	3.2	1.5
Mar	9.8	7.6	3.9	2.0
Apr	7.9	6.2	3.5	1.8
May	9.0	7.0	3.5	1.5
Jun	7.9	6.2	3.0	1.4
Jul	7.4	5.5	2.8	1.4
Aug	6.6	4.8	2.1	1.2
Sep	7.0	4.9	2.2	1.0
Oct	6.5	4.9	2.7	1.3
Nov	8.7	6.8	3.6	1.8
Dec	9.2	7.0	3.6	1.9
Ann	98.1	74.3	37.4	18.4

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	1.09	1.56	2.32	3.00	3.69	4.43	5.25	6.25	7.56	9.65	11.63
Feb	1.26	1.70	2.37	2.95	3.52	4.11	4.77	5.56	6.57	8.17	9.66
Mar	2.13	2.66	3.42	4.06	4.66	5.28	5.95	6.73	7.72	9.24	10.64
Apr	1.13	1.61	2.38	3.07	3.77	4.51	5.35	6.36	7.68	9.80	11.80
May	1.32	1.77	2.46	3.06	3.64	4.26	4.94	5.75	6.79	8.44	9.97
Jun	1.32	1.75	2.40	2.97	3.52	4.09	4.72	5.47	6.44	7.95	9.36
Jul	.61	.96	1.54	2.11	2.69	3.33	4.07	4.97	6.17	8.14	10.03
Aug	.38	.64	1.11	1.57	2.06	2.61	3.26	4.05	5.14	6.93	8.67
Sep	.84	1.15	1.61	2.02	2.42	2.85	3.31	3.87	4.59	5.74	6.80
Oct	.54	.88	1.49	2.10	2.74	3.45	4.28	5.31	6.70	8.99	11.21
Nov	1.74	2.23	2.95	3.56	4.15	4.76	5.42	6.20	7.19	8.73	10.16
Dec	1.37	1.86	2.61	3.27	3.92	4.60	5.36	6.26	7.43	9.27	11.00
Ann	38.98	42.13	46.18	49.25	51.98	54.63	57.36	60.38	64.05	69.38	73.99

\+ 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	.8	.0	#	0
Feb	.4	.0	#	0
Mar	.1	.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	#	.0	#	0
Ann	1.4	.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	2000	28	8.1	2000	8	2000	28	#+	2000
Feb	1.6	1971	8	1.6	1971	1	1984	27	#+	1984
Mar	2.0	1971	3	2.0	1971	2	1971	3	#+	1987
Apr	.5	1987	3	.5	1987	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	1.0	1980	27	1.0	1980	0	0	0	0	0
Dec	#	1990	24	#+	1990	6	1983	17	#+	1990
Ann	8.0	Jan 2000	28	8.1	Jan 2000	8	Jan 2000	28	#+	Jan 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.3	.2	.1	.1	.0
Feb	.3	.2	.0	.0	.0
Mar	.1	.1	.0	.0	.0
Apr	.1	.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	.0
Dec	.0	.0	.0	.0	.0
Ann	.9	.6	.1	.1	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	@	@	@	.0
Feb	.0	.0	.0	.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	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	@	@	@	.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	4/26	4/21	4/17	4/14	4/11	4/09	4/06	4/02	3/28
32	4/15	4/10	4/07	4/04	4/01	3/29	3/26	3/23	3/18
28	4/05	3/29	3/24	3/20	3/16	3/12	3/08	3/03	2/24
24	3/22	3/14	3/08	3/03	2/26	2/21	2/16	2/10	2/02
20	3/09	3/01	2/22	2/17	2/12	2/07	2/02	1/26	1/18
16	3/04	2/20	2/11	2/03	1/27	1/19	1/09	12/26	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	10/01	10/07	10/11	10/14	10/18	10/21	10/24	10/29	11/03
32	10/10	10/17	10/23	10/27	10/31	11/05	11/09	11/14	11/22
28	10/26	11/03	11/08	11/13	11/17	11/22	11/27	12/02	12/10
24	11/08	11/15	11/21	11/26	11/30	12/04	12/09	12/14	12/22
20	11/14	11/26	12/05	12/13	12/20	12/27	1/04	1/13	1/26
16	11/26	12/09	12/18	12/26	1/03	1/12	1/22	2/06	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	214	205	199	193	188	183	178	172	163
32	233	226	221	217	213	209	204	199	192
28	274	264	257	251	246	240	234	227	217
24	302	293	287	281	276	271	266	259	250
20	>365	330	319	311	304	297	290	282	271
16	>365	>365	>365	>365	336	323	313	304	293

***** 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	738	533	339	151	31	0	0	0	11	128	371	635	2937
60	589	403	208	71	8	0	0	0	2	57	242	490	2070
57	501	329	145	38	3	0	0	0	0	30	177	405	1628
55	445	282	111	23	1	0	0	0	0	18	141	352	1373
50	313	185	47	5	0	0	0	0	0	4	70	235	859
32	38	13	0	0	0	0	0	0	0	0	0	19	70

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	323	405	692	891	1183	1367	1522	1490	1263	968	627	408	11139
55	17	31	90	224	471	677	809	777	573	273	78	27	4047
57	12	21	62	179	410	617	747	715	513	223	54	19	3572
60	7	12	32	121	322	527	654	622	424	157	29	10	2917
65	0	2	8	52	191	377	499	467	283	73	8	0	1960
70	0	0	0	16	92	231	344	317	163	25	0	0	1188

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	154	248	457	654	935	1128	1270	1241	1024	722	399	212	154	402	859	1513	2448	3576	4846	6087	7111	7833	8232	8444
45	83	151	326	508	780	978	1115	1086	874	569	275	122	83	234	560	1068	1848	2826	3941	5027	5901	6470	6745	6867
50	43	85	209	366	625	828	960	931	724	417	175	64	43	128	337	703	1328	2156	3116	4047	4771	5188	5363	5427
55	19	38	120	235	471	678	805	776	574	285	96	31	19	57	177	412	883	1561	2366	3142	3716	4001	4097	4128
60	1	12	53	131	323	528	650	621	428	169	43	8	1	13	66	197	520	1048	1698	2319	2747	2916	2959	2967
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	103	161	284	417	626	778	864	838	684	471	246	133	103	264	548	965	1591	2369	3233	4071	4755	5226	5472	5605

(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