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: MOUNT IDA 3 SE, AR **COOP ID: 034988**

Climate Division: AR 7 **NWS Call Sign:** **Elevation: 697 Feet** **Lat: 34˚32N** **Lon: 93˚35W**

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	48.7	25.4	37.1	79+	1952	1	44.0	1998	-9	1962	11	26.5	1979	867	0	.0	.0	15.6	2.6	24.1	.2
Feb	54.5	28.8	41.7	86	1986	21	49.3	1976	-21	1951	2	30.4	1978	654	0	.0	.0	19.2	1.6	20.0	.2
Mar	62.4	37.3	49.9	97	1964	2	56.2	1974	6+	1965	20	44.4	1996	470	0	.0	.0	27.5	.1	12.0	.0
Apr	71.0	45.0	58.0	93+	1987	20	64.5	1981	20	1987	4	53.0	1983	227	16	.0	.2	29.6	.0	3.9	.0
May	77.2	54.9	66.1	96+	1953	26	71.8	1996	30	1992	7	60.8	1976	84	116	.0	.5	31.0	.0	.1	.0
Jun	84.4	63.2	73.8	105	1953	22	77.1	1998	41	1983	8	69.6	1974	5	269	.2	9.3	30.0	.0	.0	.0
Jul	89.7	67.3	78.5	108+	1980	19	83.4	1980	48	1972	6	74.6	1994	0	418	2.4	21.0	31.0	.0	.0	.0
Aug	89.7	65.0	77.4	110	1962	7	82.5	2000	43	1986	29	73.0	1992	3	385	2.8	20.3	31.0	.0	.0	.0
Sep	82.4	57.7	70.1	106	1951	3	76.8	1998	31+	1967	29	64.1	1974	36	188	.6	7.6	30.0	.0	.1	.0
Oct	72.6	44.8	58.7	100	1953	1	62.9	1973	21	1993	31	51.4	1976	220	24	.0	.4	30.7	.0	4.1	.0
Nov	60.8	35.7	48.3	88+	1952	2	53.7	1999	6+	1976	29	41.1	1976	504	1	.0	.0	25.7	.1	13.6	.0
Dec	51.4	28.1	39.8	79+	1955	25	49.0	1984	-6	1989	23	29.0	1983	784	0	.0	.0	18.8	1.8	21.7	.2
Ann	70.4	46.1	58.3	110	Aug 1962	7	83.4	Jul 1980	-21	Feb 1951	2	26.5	Jan 1979	3854	1417	6.0	59.3	320.1	6.2	99.6	.6

\+ 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	3.70	3.23	4.58	1969	30	7.73	1994	.53	1986
Feb	3.90	3.63	6.51	1950	12	8.75	1989	1.27	1996
Mar	5.40	4.82	3.90	1952	31	13.50	1973	1.31	1972
Apr	5.30	4.82	6.65	1974	22	10.31	1991	.97	1987
May	6.24	5.44	6.29	1968	14	15.20	1990	1.15	1977
Jun	5.01	5.07	4.63	1985	18	11.76	1974	.66	1990
Jul	3.97	4.01	3.72	1960	24	9.46	1973	.33	1986
Aug	2.63	2.18	3.40	1956	20	8.94	1974	.17	1980
Sep	4.84	4.61	6.14	1972	18	13.23	1972	.32	1982
Oct	5.29	4.54	5.54	1972	31	18.17	1984	.53	1992
Nov	6.21	5.87	6.00	1952	25	14.53	1996	1.80	1999
Dec	5.46	4.94	9.95	1982	3	15.64	1982	.78	1981
Ann	57.95	55.10	9.95	Dec 1982	3	18.17	Oct 1984	.17	Aug 1980

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.0	6.5	2.6	.7
Feb	9.3	5.7	2.7	1.3
Mar	10.7	7.0	3.9	1.7
Apr	10.2	6.8	3.6	1.7
May	12.2	8.2	3.9	2.0
Jun	10.3	6.4	3.1	1.7
Jul	8.4	6.1	2.5	1.3
Aug	7.4	4.4	1.5	.8
Sep	9.3	6.3	3.3	1.5
Oct	8.2	5.4	3.0	1.7
Nov	10.3	6.7	3.6	2.1
Dec	11.0	6.6	3.3	1.6
Ann	118.3	76.1	37.0	18.1

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	.89	1.24	1.78	2.26	2.74	3.24	3.81	4.48	5.36	6.76	8.07
Feb	1.40	1.77	2.30	2.74	3.17	3.61	4.08	4.63	5.34	6.43	7.42
Mar	1.82	2.33	3.08	3.72	4.32	4.95	5.64	6.44	7.47	9.06	10.52
Apr	1.80	2.30	3.03	3.65	4.25	4.86	5.53	6.32	7.32	8.88	10.31
May	1.66	2.25	3.15	3.94	4.73	5.54	6.45	7.53	8.94	11.15	13.22
Jun	1.04	1.50	2.24	2.91	3.58	4.30	5.12	6.09	7.38	9.45	11.40
Jul	.51	.83	1.39	1.95	2.53	3.18	3.93	4.86	6.11	8.17	10.16
Aug	.30	.51	.87	1.24	1.63	2.07	2.58	3.21	4.07	5.49	6.87
Sep	1.23	1.69	2.39	3.02	3.63	4.28	5.00	5.85	6.97	8.74	10.39
Oct	.66	1.07	1.82	2.56	3.34	4.21	5.22	6.47	8.16	10.94	13.63
Nov	1.69	2.28	3.18	3.96	4.73	5.53	6.43	7.48	8.86	11.01	13.03
Dec	1.49	2.01	2.80	3.49	4.16	4.87	5.65	6.58	7.79	9.68	11.45
Ann	41.88	45.02	49.02	52.06	54.75	57.34	60.02	62.98	66.56	71.74	76.22

\+ 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)

Extremes (2)

Mean Number of Days (1)

Snow Fall >= Thresholds

Snow Depth >= Thresholds

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	2.4	1.0	#	#	11.5	1988	7	16.5	1988	12	1988	8	2	1988	1.4	.8	.2	.1	@	2.6	.7	.3	.1
Feb	2.1	.5	#	#	8.0	1979	7	11.0	1979	8	1979	7	2	1985	1.0	.7	.2	.2	.0	1.9	.7	.5	.0
Mar	.3	.0	#	0	2.0	1971	3	2.0+	1995	2+	1995	3	#+	1995	.2	.2	.0	.0	.0	.2	.0	.0	.0
Apr	.1	.0	#	0	4.0	1980	14	4.0	1980	3	1980	14	#	1980	@	@	@	.0	.0	@	@	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.2	.0	#	0	3.0	1971	23	3.0	1971	3	1971	23	#+	1995	.1	.1	@	.0	.0	.1	@	.0	.0
Dec	.5	.0	#	0	4.0	1975	25	6.0	1975	4	1975	26	1	2000	.6	.2	@	.0	.0	1.2	.1	.0	.0
Ann	5.6	1.5	N/A	N/A	11.5	Jan 1988	7	16.5	Jan 1988	12	Jan 1988	8	2+	Jan 1988	3.3	2.0	.4	.3	@	6.0	1.5	.8	.1

+ 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	5/10	5/05	5/02	4/29	4/26	4/23	4/20	4/16	4/11
32	4/24	4/20	4/17	4/15	4/12	4/10	4/08	4/05	4/01
28	4/13	4/09	4/05	4/02	3/30	3/28	3/25	3/21	3/17
24	4/05	3/30	3/26	3/22	3/18	3/15	3/11	3/07	2/28
20	3/22	3/15	3/10	3/06	3/02	2/26	2/22	2/17	2/10
16	3/10	3/01	2/24	2/18	2/14	2/09	2/04	1/29	1/21

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	9/30	10/03	10/06	10/09	10/11	10/15	10/19
32	10/02	10/07	10/11	10/14	10/16	10/19	10/22	10/26	10/31
28	10/19	10/23	10/27	10/30	11/01	11/04	11/07	11/10	11/14
24	10/29	11/04	11/08	11/12	11/15	11/18	11/22	11/26	12/01
20	11/06	11/13	11/18	11/22	11/27	12/01	12/05	12/10	12/17
16	11/16	11/26	12/03	12/09	12/15	12/21	12/27	1/03	1/13

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	180	174	169	166	162	159	155	151	145
32	202	197	193	189	186	183	180	176	171
28	235	228	223	219	215	211	207	202	195
24	266	257	251	246	241	236	231	225	216
20	295	286	280	274	269	264	258	252	243
16	341	326	317	309	302	294	287	278	265

***** 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)

Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	867	654	470	227	84	5	0	3	36	220	504	784	3854
60	712	517	325	117	30	0	0	0	9	114	365	631	2820
57	621	439	244	69	14	0	0	0	3	69	287	544	2290
55	565	387	196	45	8	0	0	0	1	47	240	486	1975
50	423	268	103	11	1	0	0	0	0	13	143	350	1312
32	79	29	1	0	0	0	0	0	0	0	5	49	163

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	235	299	554	779	1055	1254	1441	1405	1142	827	492	288	9771
55	9	13	36	134	350	564	728	692	453	161	37	12	3189
57	3	9	22	99	294	504	666	630	395	121	24	8	2775
60	0	3	10	57	218	415	573	537	311	73	12	1	2210
65	0	0	0	16	116	269	418	385	188	24	1	0	1417
70	0	0	0	3	48	142	268	244	96	5	0	0	806

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	99	166	347	557	828	1034	1224	1188	931	605	301	129	99	265	612	1169	1997	3031	4255	5443	6374	6979	7280	7409
45	48	88	222	412	673	884	1069	1033	781	455	189	69	48	136	358	770	1443	2327	3396	4429	5210	5665	5854	5923
50	20	43	129	277	518	734	914	878	631	314	108	34	20	63	192	469	987	1721	2635	3513	4144	4458	4566	4600
55	5	18	63	164	368	584	759	723	484	197	56	12	5	23	86	250	618	1202	1961	2684	3168	3365	3421	3433
60	0	1	28	83	227	434	604	568	343	102	22	2	0	1	29	112	339	773	1377	1945	2288	2390	2412	2414
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	84	137	244	370	546	702	815	783	616	409	208	105	84	221	465	835	1381	2083	2898	3681	4297	4706	4914	5019

(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