

# Climatography of the United States

No. 20

1971-2000

Station: MENA, AR

COOP ID: 034756

Climate Division: AR 4

NWS Call Sign:

Elevation: 1,130 Feet Lat: 34° 34N

Lon: 94° 15W

## 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	27.0	37.9	82	1943	23	43.5	1990	-4	1962	11	26.0	1979	842	0	.0	.0	15.7	2.5	22.0	.2
Feb	54.5	30.5	42.5	84	1996	22	51.7	1976	-6	1951	2	30.5	1978	630	0	.0	.0	19.1	1.6	16.4	@
Mar	62.3	38.4	50.4	90	1974	31	56.6	1974	6	1943	3	44.5	1996	454	0	.0	@	27.2	.1	9.0	.0
Apr	70.6	46.1	58.4	92	1987	19	64.2	1981	22+	1987	1	53.0	1983	218	19	.0	.1	29.6	.0	1.8	.0
May	77.3	55.8	66.6	93+	1942	31	71.7	1987	35+	1944	6	62.5	1981	66	114	.0	.2	31.0	.0	.0	.0
Jun	84.7	63.7	74.2	100+	1952	28	78.1	1994	44+	1970	3	70.5	1983	3	278	@	5.3	30.0	.0	.0	.0
Jul	89.7	67.4	78.6	108	1947	17	83.7	1998	50	1972	6	75.6	1989	0	420	1.4	16.9	31.0	.0	.0	.0
Aug	89.5	65.9	77.7	109	1943	16	82.7	2000	48+	1986	29	72.3	1992	2	394	1.0	17.4	31.0	.0	.0	.0
Sep	82.5	59.4	71.0	104+	2000	1	76.5	1998	34	1967	29	65.1	1974	24	203	.3	5.5	30.0	.0	.0	.0
Oct	72.9	48.4	60.7	94+	1953	1	64.7	1973	20	1993	31	55.7	1976	169	33	.0	.2	30.7	.0	1.3	.0
Nov	60.1	38.0	49.1	84+	1955	14	54.5	1999	13+	1970	24	42.1	1972	481	2	.0	.0	25.3	.1	9.7	.0
Dec	51.0	29.9	40.5	79	1951	31	47.9	1984	-7+	1989	23	29.2	1983	760	0	.0	.0	18.5	1.9	18.7	.1
Ann	70.3	47.5	59.0	109	Aug 1943	16	83.7	Jul 1998	-7+	Dec 1989	23	26.0	Jan 1979	3649	1463	2.7	45.6	319.1	6.2	78.9	.3

+ 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](http://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: 1942-2001

(3) Derived from 1971-2000 serially complete daily data

052-A

# 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: MENA, AR**

**COOP ID: 034756**

**Climate Division: AR 4**

**NWS Call Sign:**

**Elevation: 1,130 Feet Lat: 34°34N**

**Lon: 94°15W**

### Precipitation (inches)

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days <sup>(3)</sup>				Precipitation Probabilities <sup>(1)</sup> Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians <sup>(1)</sup>		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily <sup>(2)</sup>	Year	Day	Highest Monthly <sup>(1)</sup>	Year	Lowest Monthly <sup>(1)</sup>	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	3.29	3.31	7.62	1949	24	6.64	1990	.44	1976	9.3	5.5	2.4	.7	.77	1.08	1.56	1.99	2.42	2.87	3.38	3.98	4.78	6.04	7.22
Feb	3.65	3.29	3.94	1945	21	9.00	1997	1.17	1991	8.1	5.4	2.4	1.2	1.17	1.52	2.03	2.47	2.89	3.33	3.80	4.36	5.09	6.21	7.25
Mar	5.19	4.52	4.73	1977	28	11.32	1973	1.31	1986	9.6	7.1	3.6	1.7	2.05	2.53	3.21	3.78	4.31	4.85	5.44	6.12	6.98	8.30	9.50
Apr	5.20	4.24	3.93	1952	22	13.59	1991	.36	1987	9.7	7.1	3.5	1.8	1.48	1.97	2.72	3.37	4.00	4.66	5.39	6.25	7.36	9.11	10.74
May	6.65	6.69	5.35	1947	13	18.08	1990	1.78	1988	11.7	8.6	4.3	2.1	2.22	2.85	3.78	4.56	5.31	6.09	6.94	7.93	9.20	11.18	13.00
Jun	5.17	5.02	6.42	1999	26	13.93	1999	1.06	1972	9.6	6.9	3.5	1.5	1.30	1.79	2.54	3.21	3.87	4.56	5.33	6.25	7.45	9.35	11.13
Jul	5.05	4.44	6.72	1991	28	12.39	1981	.18	1976	8.2	5.9	3.3	1.7	.65	1.05	1.77	2.48	3.22	4.04	5.00	6.17	7.77	10.38	12.91
Aug	2.54	2.40	4.78	1947	28	6.95	1974	.30	1980	7.4	4.7	1.9	.5	.59	.83	1.20	1.53	1.87	2.22	2.61	3.08	3.70	4.68	5.60
Sep	5.07	4.11	5.12	1954	30	11.97	1974	.29	1982	9.3	6.3	3.3	1.7	.84	1.28	2.02	2.71	3.43	4.21	5.10	6.18	7.63	9.98	12.22
Oct	5.68	3.94	11.90	1990	8	16.69	1984	.37	1992	7.9	5.8	2.9	1.7	.69	1.14	1.94	2.73	3.57	4.50	5.59	6.93	8.76	11.76	14.66
Nov	5.88	5.28	5.47	1952	25	13.62	1996	.90	1989	9.0	6.1	3.5	2.2	1.33	1.87	2.73	3.51	4.28	5.10	6.03	7.13	8.59	10.90	13.08
Dec	5.02	4.62	6.88	1971	10	14.24	1971	.36	1981	9.0	6.2	3.4	1.6	1.10	1.56	2.30	2.97	3.63	4.34	5.14	6.09	7.35	9.36	11.25
Ann	58.39	58.03	11.90	Oct 1990	8	18.08	May 1990	.18	Jul 1976	108.8	75.6	38.0	18.4	41.66	44.90	49.05	52.20	55.00	57.70	60.49	63.57	67.31	72.73	77.42

+ 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: 1942-2001

(3) Derived from 1971-2000 serially complete daily data

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Station: MENA, AR

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Climate Division: AR 4

NWS Call Sign:

Elevation: 1,130 Feet

Lat: 34° 34N

Lon: 94° 15W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	1.3	.0	#	0	11.0	1988	7	11.0	1988	4	1978	22	1	1978	.9	.5	.1	.1	.1	1.6	.2	.0	.0
Feb	2.3	.0	#	0	9.7	1979	25	17.6	1979	10	1979	25	1	1979	.6	.3	.1	.1	.0	.7	.4	.2	.1
Mar	.2	.0	#	0	1.5	1975	13	1.5+	1995	2	1975	13	#+	1999	.1	.1	.0	.0	.0	@	.0	.0	.0
Apr	#	.0	0	0	#	1973	9	#+	1973	0	0	0	0	0	.0	.0	.0	.0	.0	.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	#	1993	30	#	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.3	.0	#	0	3.0	1971	23	3.0	1971	3	1971	23	#+	1976	.1	.1	@	.0	.0	.1	@	.0	.0
Dec	.1	.0	#	0	1.0	1971	3	1.0+	1985	3	2000	27	#+	2000	.1	.1	.0	.0	.0	.1	.0	.0	.0
Ann	4.2	.0	N/A	N/A	11.0	Jan 1988	7	17.6	Feb 1979	10	Feb 1979	25	1+	Feb 1979	1.8	1.1	.2	.2	.1	2.5	.6	.2	.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	4/29	4/24	4/20	4/17	4/15	4/12	4/09	4/05	3/31
32	4/17	4/13	4/09	4/07	4/04	4/02	3/30	3/27	3/23
28	4/11	4/03	3/29	3/25	3/21	3/16	3/12	3/07	2/27
24	3/27	3/20	3/14	3/10	3/06	3/02	2/25	2/20	2/12
20	3/14	3/05	2/27	2/22	2/17	2/12	2/06	1/31	1/23
16	3/08	2/25	2/16	2/09	2/02	1/26	1/18	1/09	12/26
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	10/02	10/07	10/11	10/14	10/17	10/20	10/24	10/27	11/02
32	10/17	10/22	10/26	10/29	11/01	11/04	11/07	11/11	11/16
28	10/25	10/31	11/04	11/08	11/11	11/15	11/18	11/23	11/28
24	11/03	11/10	11/15	11/20	11/24	11/28	12/03	12/08	12/15
20	11/14	11/21	11/27	12/01	12/05	12/09	12/14	12/19	12/26
16	11/24	12/06	12/14	12/21	12/28	1/03	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	207	199	194	189	185	181	176	171	164
32	233	225	219	214	210	205	200	194	186
28	264	254	247	241	235	229	223	216	206
24	295	284	276	269	263	256	249	241	230
20	325	313	305	297	291	284	277	268	257
16	>365	>365	351	332	321	312	303	293	281

\* 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

Complete documentation available from:

[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

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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	842	630	454	218	66	3	0	2	24	169	481	760	3649
60	687	496	308	113	20	0	0	0	5	77	343	607	2656
57	598	418	229	67	8	0	0	0	1	42	266	521	2150
55	542	367	182	44	4	0	0	0	0	26	221	463	1849
50	401	253	92	11	0	0	0	0	0	6	128	328	1219
32	68	27	1	0	0	0	0	0	0	0	4	40	140

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	249	321	570	791	1071	1265	1443	1416	1169	887	514	303	9999
55	10	17	39	145	362	575	730	703	479	200	41	13	3314
57	4	12	23	108	304	515	668	641	419	154	27	9	2884
60	0	6	10	64	223	425	575	548	333	96	13	2	2295
65	0	0	0	19	114	278	420	394	203	33	2	0	1463
70	0	0	0	4	43	148	269	250	104	7	0	0	825

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	110	191	370	576	842	1039	1208	1187	945	657	318	141	110	301	671	1247	2089	3128	4336	5523	6468	7125	7443	7584
45	52	107	242	428	687	889	1053	1032	795	503	204	74	52	159	401	829	1516	2405	3458	4490	5285	5788	5992	6066
50	21	52	141	295	532	739	898	877	645	354	115	33	21	73	214	509	1041	1780	2678	3555	4200	4554	4669	4702
55	3	22	67	173	379	589	743	722	498	228	54	10	3	25	92	265	644	1233	1976	2698	3196	3424	3478	3488
60	0	2	28	87	233	439	588	567	356	122	21	0	0	2	30	117	350	789	1377	1944	2300	2422	2443	2443
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	76	130	236	364	547	721	827	800	632	418	192	92	76	206	442	806	1353	2074	2901	3701	4333	4751	4943	5035

(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](http://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.  
Complete documentation for the 1971-2000 Normals is available on the internet from:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/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 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.

- |   |   |
|---|---|
| <ol style="list-style-type: none"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)