

Climatography of the United States No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: NEWPORT, AR

1971-2000

COOP ID: 035186

Climate Division: AR 3

NWS Call Sign:

Elevation: 228 Feet Lat: 35° 36N Lon: 91° 16W

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	45.6	28.0	36.8	79	1943	16	43.7	1990	-10	1930	18	23.7	1979	875	0	.0	.0	11.2	4.7	21.2	.3
Feb	52.2	32.4	42.3	85	1962	13	50.3	1976	-10	1951	2	30.7	1978	635	0	.0	.0	16.5	2.5	13.5	.1
Mar	61.5	41.6	51.6	89	1967	12	56.8	1977	10	1943	3	45.2	1996	427	9	.0	.0	25.7	.3	5.5	.0
Apr	71.4	50.5	61.0	97	1987	28	67.4	1981	27+	1936	3	55.2	1983	167	46	.0	.2	29.4	.0	.3	.0
May	79.8	59.8	69.8	98+	1934	30	76.4	1987	30	1960	1	64.5	1976	43	192	.0	1.7	31.0	.0	.0	.0
Jun	87.9	68.0	78.0	108	1936	20	81.6	1998	47	1930	1	73.9	1974	0	390	.3	12.9	30.0	.0	.0	.0
Jul	92.2	72.0	82.1	112+	1930	28	87.9	1980	51	1947	23	78.8	1994	0	529	1.9	21.8	31.0	.0	.0	.0
Aug	90.9	69.6	80.3	114	1930	9	85.7	1983	48	1986	29	75.6	1992	0	473	1.7	17.8	31.0	.0	.0	.0
Sep	84.1	62.2	73.2	109	1947	7	78.2	1986	35+	1942	28	66.6	1974	17	261	.3	7.0	30.0	.0	.0	.0
Oct	73.9	50.4	62.2	98	1951	7	70.2	1971	25	1954	30	57.5	1976	152	63	.0	.5	30.9	.0	.4	.0
Nov	60.0	41.6	50.8	87	1950	1	56.7	1990	11	1950	26	44.4	1976	430	4	.0	.0	23.6	.1	6.4	.0
Dec	49.4	32.6	41.0	80	1946	7	49.7	1984	-17	1983	25	30.0	1983	744	0	.0	.0	15.4	2.5	16.7	.2
Ann	70.7	50.7	60.8	114	Aug 1930	9	87.9	Jul 1980	-17	Dec 1983	25	23.7	Jan 1979	3490	1967	4.2	61.9	305.7	10.1	64.0	.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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1930-2001

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

060-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: NEWPORT, AR

COOP ID: 035186

Climate Division: AR 3

NWS Call Sign:

Elevation: 228 Feet Lat: 35°36N

Lon: 91°16W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med- ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	3.50	3.11	4.70	1969	30	6.89	1999	.30	1986	9.8	6.4	2.1	.7	.84	1.16	1.67	2.13	2.58	3.06	3.60	4.24	5.08	6.40	7.65
Feb	3.30	3.02	4.07	1938	18	10.39	1989	.45	1999	8.4	5.4	2.1	.9	.79	1.10	1.58	2.01	2.44	2.89	3.40	4.00	4.79	6.04	7.21
Mar	4.83	4.27	4.18	1934	26	12.50	1975	1.72	1991	11.1	7.6	3.3	1.3	1.67	2.13	2.79	3.35	3.89	4.44	5.04	5.74	6.64	8.04	9.32
Apr	5.01	5.00	5.50	1997	5	11.28	1991	.32	1987	9.7	6.8	3.4	1.6	1.29	1.77	2.49	3.13	3.77	4.43	5.17	6.05	7.19	9.00	10.69
May	4.74	4.80	3.82	1983	3	10.50	1983	1.77	1998	10.6	7.4	3.0	1.5	1.86	2.30	2.92	3.44	3.93	4.43	4.97	5.59	6.38	7.59	8.70
Jun	3.78	3.69	4.52	1948	20	7.18	1976	1.05	1983	8.9	5.7	2.6	1.3	1.37	1.73	2.24	2.67	3.08	3.49	3.95	4.48	5.15	6.19	7.15
Jul	3.31	3.27	3.50	1998	11	8.22	1998	.11	1980	7.7	5.2	2.2	.9	.46	.73	1.21	1.67	2.15	2.68	3.29	4.05	5.06	6.72	8.32
Aug	2.90	3.26	6.25	1970	9	6.05	1984	.34	1996	7.2	4.6	2.0	.7	.49	.75	1.17	1.57	1.98	2.42	2.93	3.54	4.36	5.69	6.96
Sep	3.49	3.03	4.24	1978	14	9.03	1977	.24	1999	7.6	4.7	2.1	1.1	.47	.76	1.26	1.74	2.25	2.81	3.46	4.26	5.34	7.11	8.81
Oct	3.67	3.16	4.51	1980	18	10.67	1984	.70	1971	7.3	5.1	2.5	1.2	.69	1.02	1.56	2.06	2.56	3.10	3.72	4.47	5.46	7.05	8.56
Nov	5.55	5.10	5.90	1988	19	11.73	1988	1.05	1976	9.6	6.9	3.6	1.9	1.73	2.26	3.04	3.71	4.36	5.03	5.77	6.64	7.76	9.51	11.12
Dec	4.74	4.08	3.97	1941	23	12.37	1990	1.25	1981	9.6	6.7	3.1	1.4	1.36	1.81	2.49	3.08	3.65	4.25	4.92	5.70	6.71	8.29	9.76
Ann	48.82	46.33	6.25	Aug 1970	9	12.50	Mar 1975	.11	Jul 1980	107.5	72.5	32.0	14.5	35.05	37.72	41.14	43.74	46.04	48.26	50.55	53.09	56.15	60.60	64.44

+ 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: 1930-2001

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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: NEWPORT, AR

COOP ID: 035186

Climate Division: AR 3

NWS Call Sign:

Elevation: 228 Feet

Lat: 35°36N

Lon: 91°16W

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	4.7	3.5	#	0	12.0	1988	7	13.0	1988	6+	1977	13	2	1977	1.5	1.1	.6	.3	.1	1.3	.6	.3	.0
Feb	2.5	.0	0	0	7.5	1985	1	12.5	1979	0	0	0	0	0	.8	.8	.3	.2	.0	.0	.0	.0	.0
Mar	.5	.0	#	0	5.0	1975	14	6.1	1975	5	1975	14	#	1975	.3	.2	.1	.1	.0	.1	.1	.1	.0
Apr	#	.0	0	0	#	1971	6	#	1971	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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.4	.0	#	0	3.5	1971	23	4.0	1971	4	1971	23	#+	1976	.2	.2	.1	.0	.0	.1	.1	.0	.0
Dec	.5	.0	#	0	3.0	1988	28	3.0+	1988	1	1975	26	#+	1975	.3	.3	.1	.0	.0	.1	.0	.0	.0
Ann	8.6	3.5	N/A	N/A	12.0	Jan 1988	7	13.0	Jan 1988	6+	Jan 1977	13	2	Jan 1977	3.1	2.6	1.2	.6	.1	1.6	.8	.4	.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

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

Climatography of the United States

No. 20 1971-2000

Station: NEWPORT, AR

COOP ID: 035186

Climate Division: AR 3

NWS Call Sign:

Elevation: 228 Feet

Lat: 35°36N

Lon: 91°16W

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	4/17	4/12	4/09	4/06	4/03	3/31	3/28	3/24	3/19
32	4/08	4/02	3/29	3/26	3/23	3/19	3/16	3/12	3/06
28	3/25	3/18	3/14	3/10	3/06	3/02	2/26	2/22	2/15
24	3/13	3/06	3/01	2/24	2/20	2/16	2/12	2/07	1/31
20	3/12	2/28	2/20	2/13	2/07	1/31	1/24	1/16	1/04
16	3/03	2/19	2/10	2/03	1/26	1/18	1/09	12/25	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	10/13	10/17	10/21	10/24	10/26	10/29	11/01	11/04	11/09
32	10/23	10/29	11/02	11/05	11/08	11/11	11/15	11/19	11/24
28	11/02	11/08	11/13	11/17	11/20	11/24	11/28	12/03	12/09
24	11/12	11/20	11/25	11/30	12/04	12/09	12/13	12/19	12/26
20	11/15	11/27	12/05	12/12	12/19	12/26	1/02	1/10	1/22
16	11/29	12/09	12/16	12/22	12/29	1/04	1/12	1/24	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	228	220	215	210	206	202	197	192	184
32	253	245	239	234	230	225	220	215	207
28	285	276	269	264	259	253	248	242	233
24	318	307	299	293	286	280	273	266	255
20	>365	341	323	313	305	298	291	282	271
16	>365	>365	>365	353	335	323	311	299	284

* 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

**Climatography
of the United States
No. 20
1971-2000**

Station: NEWPORT, AR

COOP ID: 035186

Climate Division: AR 3

NWS Call Sign:

Elevation: 228 Feet Lat: 35°36N Lon: 91°16W

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	875	635	427	167	43	0	0	0	17	152	430	744	3490
60	722	506	290	82	13	0	0	0	3	72	295	596	2579
57	637	429	220	47	5	0	0	0	1	41	223	509	2112
55	579	379	180	30	3	0	0	0	0	26	181	453	1831
50	440	269	99	7	0	0	0	0	0	6	98	323	1242
32	100	38	2	0	0	0	0	0	0	0	2	47	189

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	248	326	607	868	1172	1379	1552	1496	1234	934	565	326	10707
55	14	24	72	208	462	689	839	783	544	247	55	19	3956
57	10	17	50	165	403	629	777	721	485	199	36	13	3505
60	2	10	27	110	317	539	684	628	397	138	18	7	2877
65	0	0	9	46	192	390	529	473	261	63	4	0	1967
70	0	0	0	13	98	245	374	322	148	21	0	0	1221

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	84	176	371	625	923	1141	1302	1243	983	670	327	132	84	260	631	1256	2179	3320	4622	5865	6848	7518	7845	7977
45	41	96	250	479	768	991	1147	1088	833	517	210	65	41	137	387	866	1634	2625	3772	4860	5693	6210	6420	6485
50	15	45	147	339	613	841	992	933	683	370	124	27	15	60	207	546	1159	2000	2992	3925	4608	4978	5102	5129
55	1	15	76	214	458	691	837	778	533	237	62	9	1	16	92	306	764	1455	2292	3070	3603	3840	3902	3911
60	0	1	33	116	308	541	682	623	387	131	23	0	0	1	34	150	458	999	1681	2304	2691	2822	2845	2845
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	50	102	209	375	610	790	897	852	659	423	182	70	50	152	361	736	1346	2136	3033	3885	4544	4967	5149	5219

(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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
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">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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