

Climatology of the United States

No. 20

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

Station: ROHWER 2 NNE, AR

1971-2000

COOP ID: 036253

Climate Division: AR 9

NWS Call Sign:

Elevation: 150 Feet

Lat: 33°49N

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	50.1	31.4	40.8	78	1972	25	47.5	1990	-5	1966	30	30.8	1977	752	0	.0	.0	16.2	2.6	18.1	.1
Feb	56.1	35.3	45.7	83	1986	27	53.6	1976	7	1985	3	33.6	1978	541	0	.0	.0	19.5	1.2	11.3	.0
Mar	64.5	43.0	53.8	89	1966	31	59.0	1974	16	1978	4	48.6	1980	357	8	.0	.0	28.0	.1	4.0	.0
Apr	73.3	51.0	62.2	95	1987	28	68.3	1981	28	1987	4	56.1	1983	141	55	.0	.4	29.7	.0	.3	.0
May	81.6	60.6	71.1	98	1977	31	76.0	1996	39	1978	3	65.6	1976	27	215	.0	4.0	31.0	.0	.0	.0
Jun	89.1	68.2	78.7	104	1988	30	82.6	1998	47	1966	1	74.1	1974	0	410	.2	15.3	30.0	.0	.0	.0
Jul	92.2	71.2	81.7	105+	1980	15	85.1	1993	51+	1967	15	78.4	1972	0	518	1.2	23.0	31.0	.0	.0	.0
Aug	91.2	68.9	80.1	104	2000	31	83.9	2000	50+	1986	29	75.8	1992	0	467	1.1	21.0	31.0	.0	.0	.0
Sep	85.7	61.9	73.8	104	2000	1	80.0	1998	34	1967	29	68.2	1974	10	274	.3	10.9	30.0	.0	.0	.0
Oct	76.2	50.0	63.1	97	1998	1	68.7	1971	26+	1961	27	57.5	1976	127	68	.0	1.3	30.9	.0	.7	.0
Nov	63.5	41.9	52.7	86+	1984	1	58.4	1985	17	1970	24	44.9	1976	377	8	.0	.0	26.7	.1	5.7	.0
Dec	53.9	34.3	44.1	82	1982	3	54.0	1984	-4	1963	24	34.9	2000	647	0	.0	.0	20.0	1.1	14.9	@
Ann	73.1	51.5	62.3	105+	Jul 1980	15	85.1	Jul 1993	-5	Jan 1966	30	30.8	Jan 1977	2979	2023	2.8	75.9	324.0	5.1	55.0	.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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1959-2001

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

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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	4.98	4.22	5.03	1994	27	11.79	1994	.63	1986	10.2	7.2	3.2	1.6	1.11	1.57	2.30	2.96	3.62	4.32	5.10	6.04	7.28	9.24	11.10
Feb	4.31	3.25	6.50	1966	9	10.68	1991	.48	1972	7.8	5.6	2.9	1.5	.91	1.30	1.94	2.51	3.09	3.70	4.40	5.23	6.33	8.09	9.76
Mar	5.32	5.04	3.58	1992	10	12.12	1973	1.76	1982	9.9	7.3	3.5	1.8	2.04	2.53	3.24	3.83	4.38	4.95	5.57	6.28	7.18	8.57	9.85
Apr	5.07	4.38	4.36	1973	25	20.19	1991	.85	1981	8.4	6.3	3.1	1.8	1.07	1.54	2.28	2.96	3.64	4.36	5.18	6.16	7.46	9.52	11.48
May	4.78	4.71	4.10	2001	28	11.98	1979	.87	1988	9.7	7.0	3.2	1.5	1.25	1.70	2.40	3.01	3.61	4.24	4.94	5.78	6.86	8.57	10.18
Jun	3.91	3.57	3.75	1974	1	10.61	1989	.71	1988	8.0	5.7	2.5	1.2	.91	1.27	1.84	2.36	2.87	3.41	4.01	4.73	5.68	7.19	8.61
Jul	3.79	3.53	4.14	1961	16	11.54	1989	.55	2000	7.6	5.7	2.5	1.4	.98	1.34	1.89	2.38	2.86	3.36	3.92	4.58	5.45	6.81	8.09
Aug	2.54	1.91	4.30	1975	3	8.02	1975	.00+	2000	5.8	4.1	1.7	.7	.00	.38	.87	1.28	1.68	2.11	2.60	3.18	3.96	5.22	6.42
Sep	2.91	2.29	4.00	1980	28	8.36	1974	.13	1995	6.4	4.4	1.8	1.0	.42	.67	1.08	1.49	1.91	2.37	2.90	3.55	4.43	5.85	7.23
Oct	3.38	3.27	4.63	1984	7	13.05	1984	.37	1987	6.2	4.3	2.3	1.1	.59	.89	1.38	1.84	2.31	2.83	3.41	4.12	5.06	6.58	8.04
Nov	5.40	4.44	4.98	2000	24	12.01	1987	1.91	1995	8.4	6.3	3.5	1.8	1.71	2.22	2.98	3.63	4.26	4.91	5.62	6.45	7.53	9.20	10.75
Dec	5.60	4.72	5.50	1983	3	16.15	1982	.73	1980	9.4	7.0	3.7	2.0	1.11	1.62	2.44	3.20	3.96	4.77	5.70	6.81	8.29	10.65	12.89
Ann	51.99	48.02	6.50	Feb 1966	9	20.19	Apr 1991	.00+	Aug 2000	97.8	70.9	33.9	17.4	35.99	39.05	42.99	45.99	48.67	51.26	53.95	56.92	60.54	65.80	70.36

+ 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: 1959-2001

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

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NWS Call Sign:

Elevation: 150 Feet

Lat: 33°49N

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	.1	.0	#	0	1.0	2000	28	1.0	2000	#	1977	31	#	1977	.1	.1	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	#	0	#	1975	6	#	1975	#	1975	6	#	1975	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	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	#	.0	0	0	#	1991	7	#	1991	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.1	.0	#	0	.9	1998	24	.9	1998	1	1998	24	#+	1998	.1	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.2	.0	N/A	N/A	1.0	Jan 2000	28	1.0	Jan 2000	1	Dec 1998	24	#+	Dec 1998	.2	.1	.0	.0	.0	.0	.0	.0	.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:

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NWS Call Sign:

Elevation: 150 Feet

Lat: 33° 49N

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	4/15	4/10	4/07	4/05	4/02	3/31	3/28	3/25	3/21
32	4/06	3/31	3/27	3/23	3/20	3/16	3/13	3/08	3/03
28	3/24	3/16	3/11	3/06	3/02	2/25	2/20	2/15	2/07
24	3/13	3/04	2/27	2/22	2/17	2/12	2/07	2/01	1/24
20	3/05	2/23	2/16	2/09	2/03	1/28	1/21	1/12	12/26
16	2/15	2/06	1/30	1/23	1/16	1/07	0/00	0/00	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	10/06	10/12	10/17	10/20	10/24	10/27	10/30	11/04	11/10
32	10/16	10/23	10/27	10/31	11/04	11/07	11/11	11/16	11/22
28	11/01	11/07	11/12	11/15	11/19	11/23	11/26	12/01	12/07
24	11/13	11/20	11/25	11/30	12/04	12/08	12/12	12/17	12/24
20	11/21	12/02	12/11	12/18	12/25	1/01	1/08	1/18	2/06
16	12/17	12/24	12/30	1/04	1/11	1/19	0/00	0/00	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	222	215	211	207	203	200	196	191	185
32	256	247	240	234	229	223	217	210	201
28	293	282	274	268	262	256	249	241	231
24	324	312	303	296	289	282	275	266	255
20	>365	>365	347	330	319	310	300	290	277
16	>365	>365	>365	>365	>365	>365	347	332	317

* 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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Climate Division: AR 9 NWS Call Sign: Elevation: 150 Feet Lat: 33° 49N 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	752	541	357	141	27	0	0	0	10	127	377	647	2979
60	604	410	223	63	6	0	0	0	1	55	247	502	2111
57	516	334	158	33	2	0	0	0	0	29	182	417	1671
55	459	287	122	20	1	0	0	0	0	17	145	363	1414
50	327	186	54	4	0	0	0	0	0	3	73	244	891
32	43	12	0	0	0	0	0	0	0	0	0	21	76

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	314	395	674	904	1212	1400	1541	1490	1254	964	621	397	11166
55	16	26	83	233	500	710	828	777	564	267	76	25	4105
57	12	18	57	187	439	650	766	715	504	217	53	17	3635
60	7	10	29	127	350	560	673	622	415	151	28	10	2982
65	0	0	8	55	215	410	518	467	274	68	8	0	2023
70	0	0	0	17	111	262	363	315	153	22	0	0	1243

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	145	237	451	670	975	1166	1300	1247	1019	726	397	204	145	382	833	1503	2478	3644	4944	6191	7210	7936	8333	8537
45	79	144	314	522	820	1016	1145	1092	869	571	271	115	79	223	537	1059	1879	2895	4040	5132	6001	6572	6843	6958
50	36	77	196	384	665	866	990	937	719	422	167	60	36	113	309	693	1358	2224	3214	4151	4870	5292	5459	5519
55	15	33	110	251	510	716	835	782	569	284	92	30	15	48	158	409	919	1635	2470	3252	3821	4105	4197	4227
60	0	8	49	145	357	566	680	627	426	170	43	6	0	8	57	202	559	1125	1805	2432	2858	3028	3071	3077
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	89	143	268	416	652	806	891	848	684	472	242	120	89	232	500	916	1568	2374	3265	4113	4797	5269	5511	5631

(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.

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| <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 |
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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