

Climatology of the United States

No. 20

1971-2000

Station: POCAHONTAS 1, AR

COOP ID: 035820

Climate Division: AR 3

NWS Call Sign:

Elevation: 315 Feet Lat: 36°16N Lon: 90°58W

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	44.0	24.4	34.2	77+	1950	24	42.9+	1990	-15	1985	20	22.3	1977	955	0	.0	.0	11.2	4.5	22.7	.4
Feb	50.4	28.5	39.5	85	1962	13	46.4	1976	-15	1951	2	26.7	1978	715	0	.0	.0	16.3	2.0	16.1	.2
Mar	60.4	37.7	49.1	88	1982	16	53.6	1973	9+	1967	7	42.5	1996	497	3	.0	.0	26.8	.2	8.3	.0
Apr	70.5	46.3	58.4	95	1987	20	63.9	1981	20	1994	7	53.4	1997	222	23	.0	.3	29.8	.0	1.3	.0
May	79.1	56.3	67.7	96+	1953	26	73.8	1987	31	1994	2	62.4	1976	62	145	.0	1.8	31.0	.0	@	.0
Jun	87.1	65.1	76.1	106	1971	26	80.1	1971	46	1964	4	71.4	1974	1	334	.3	13.0	30.0	.0	.0	.0
Jul	91.6	69.4	80.5	110+	1980	16	86.8	1980	53	1971	31	77.1	1994	0	480	2.7	21.7	31.0	.0	.0	.0
Aug	89.6	67.2	78.4	109	1980	1	85.0	1983	47	1986	29	73.5	1992	1	416	1.6	16.9	31.0	.0	.0	.0
Sep	82.2	59.3	70.8	104+	1954	4	76.3	1986	35	1967	29	64.5	1974	31	203	.2	5.8	30.0	.0	.0	.0
Oct	72.4	47.4	59.9	95+	1953	1	66.9	1971	20	1952	29	54.6	1976	193	35	.0	.2	30.7	.0	.9	.0
Nov	58.1	37.1	47.6	86	1989	11	54.3	1999	7+	1950	24	40.0	1976	524	2	.0	.0	23.5	.1	8.9	.0
Dec	47.6	28.5	38.1	78+	1951	31	46.0	1982	-9	1989	23	27.7	2000	836	0	.0	.0	14.4	2.5	18.3	.3
Ann	69.4	47.3	58.4	110+	Jul 1980	16	86.8	Jul 1980	-15+	Jan 1985	20	22.3	Jan 1977	4037	1641	4.8	59.7	305.7	9.3	76.5	.9

+ 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: 1948-2001

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

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**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: POCAHONTAS 1, AR

COOP ID: 035820

Climate Division: AR 3

NWS Call Sign:

Elevation: 315 Feet Lat: 36°16N

Lon: 90°58W

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	3.66	3.15	7.00	1966	1	9.26	1999	.31	1984	8.4	5.9	2.5	1.1	.64	.96	1.50	2.00	2.51	3.07	3.70	4.47	5.49	7.14	8.72
Feb	3.69	3.30	3.80	1958	15	10.62	1989	.95	1996	7.7	5.5	2.8	1.0	1.12	1.47	1.99	2.44	2.88	3.33	3.83	4.42	5.18	6.36	7.46
Mar	5.16	4.66	7.25	1975	28	14.00	1975	1.59	1995	9.6	7.6	3.9	1.5	1.61	2.10	2.83	3.45	4.06	4.68	5.37	6.18	7.22	8.84	10.34
Apr	4.54	4.14	3.87	1957	4	11.68	1991	1.15	1971	9.6	7.3	3.5	1.7	1.16	1.58	2.24	2.83	3.40	4.01	4.69	5.49	6.54	8.19	9.74
May	4.78	4.62	4.57	1967	14	10.11	1987	.85	1994	10.0	7.5	3.4	1.4	1.64	2.10	2.76	3.31	3.85	4.40	4.99	5.69	6.59	7.98	9.25
Jun	3.23	3.05	5.33	1965	13	8.60	1993	.87	1984	6.9	5.3	2.3	.9	.83	1.14	1.61	2.02	2.43	2.86	3.33	3.90	4.64	5.80	6.89
Jul	3.29	2.46	4.23	1966	24	7.82	1994	.04	1980	7.3	5.0	2.2	1.1	.48	.75	1.23	1.68	2.16	2.68	3.28	4.02	5.01	6.63	8.18
Aug	3.24	2.57	4.03	1977	29	7.99	1975	.34	1996	6.4	4.6	2.3	.9	.53	.81	1.28	1.73	2.18	2.68	3.26	3.95	4.88	6.39	7.83
Sep	3.54	2.96	4.38	1965	11	11.66	1972	.39	1998	6.3	4.7	2.4	1.1	.48	.76	1.27	1.76	2.28	2.85	3.51	4.33	5.43	7.23	8.97
Oct	3.63	3.27	3.10	1950	22	12.89	1984	.43	1971	6.7	5.2	2.7	1.4	.76	1.09	1.63	2.11	2.60	3.12	3.71	4.42	5.35	6.84	8.26
Nov	5.48	5.70	4.57	1994	5	9.79	1994	.36	1989	8.4	6.7	3.9	1.9	1.43	1.95	2.74	3.44	4.13	4.85	5.66	6.61	7.85	9.81	11.64
Dec	4.59	3.71	4.25	1982	3	12.24	1982	.89	1989	8.7	6.7	3.4	1.4	.99	1.41	2.08	2.69	3.30	3.96	4.69	5.57	6.74	8.59	10.35
Ann	48.83	47.40	7.25	Mar 1975	28	14.00	Mar 1975	.04	Jul 1980	96.0	72.0	35.3	15.4	35.01	37.69	41.13	43.73	46.04	48.27	50.58	53.12	56.20	60.67	64.53

+ 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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Station: POCAHONTAS 1, AR

COOP ID: 035820

Climate Division: AR 3

NWS Call Sign:

Elevation: 315 Feet

Lat: 36°16N

Lon: 90°58W

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	4.8	1.6	#	0	10.0	1987	3	19.6	1985	9	1977	13	4	1977	2.1	1.3	.6	.2	@	4.1	2.9	1.2	.0
Feb	2.8	.0	#	0	11.0	1979	25	17.7	1979	10	1979	25	2	1982	1.2	.8	.5	.2	@	2.3	1.1	.6	.1
Mar	1.3	.0	#	0	9.0	1994	9	16.0	1994	4	1980	1	#+	1980	.3	.3	.2	.1	.0	.1	.1	.0	.0
Apr	#	.0	0	0	#	1980	14	#+	1980	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	.1	.0	0	0	1.5	1993	30	1.5	1993	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Nov	.8	.0	#	0	6.8	1976	11	10.3	1976	6	1976	11	1	1976	.2	.2	.1	@	.0	.7	.3	.2	.0
Dec	1.2	.0	#	0	5.5	1984	5	5.5	1984	2+	2000	14	1	2000	.9	.6	.1	@	.0	.5	.0	.0	.0
Ann	11.0	1.6	N/A	N/A	11.0	Feb 1979	25	19.6	Jan 1985	10	Feb 1979	25	4	Jan 1977	4.7	3.2	1.5	.5	@	7.7	4.4	2.0	.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

Complete documentation available from:

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Climate Division: AR 3

NWS Call Sign:

Elevation: 315 Feet

Lat: 36° 16N

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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	4/30	4/25	4/21	4/17	4/14	4/11	4/08	4/04	3/30
32	4/17	4/12	4/08	4/05	4/02	3/30	3/27	3/23	3/17
28	4/05	3/31	3/27	3/24	3/21	3/18	3/15	3/11	3/06
24	3/24	3/17	3/13	3/09	3/05	3/01	2/25	2/20	2/14
20	3/12	3/04	2/27	2/22	2/18	2/13	2/08	2/03	1/26
16	3/12	3/01	2/22	2/16	2/10	2/04	1/28	1/21	1/10
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	10/05	10/09	10/12	10/14	10/17	10/19	10/22	10/25	10/29
32	10/14	10/20	10/24	10/27	10/31	11/03	11/06	11/10	11/16
28	10/29	11/03	11/07	11/11	11/14	11/17	11/21	11/25	11/30
24	11/03	11/10	11/15	11/19	11/23	11/28	12/02	12/07	12/14
20	11/13	11/21	11/26	12/01	12/05	12/09	12/13	12/19	12/26
16	11/18	11/29	12/08	12/15	12/21	12/28	1/04	1/12	1/23
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	202	196	192	188	185	181	178	174	168
32	229	223	218	215	211	208	204	199	193
28	260	252	247	242	237	233	228	222	215
24	289	280	273	268	263	258	252	246	237
20	319	309	301	295	290	284	278	270	260
16	>365	328	317	310	304	298	293	286	277

* 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	955	715	497	222	62	1	0	1	31	193	524	836	4037
60	800	578	355	118	20	0	0	0	8	97	385	681	3042
57	708	500	277	73	9	0	0	0	2	58	306	592	2525
55	650	449	231	50	5	0	0	0	1	39	259	535	2219
50	506	327	137	15	0	0	0	0	0	11	159	395	1550
32	127	55	5	0	0	0	0	0	0	0	8	67	262

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	195	264	534	791	1106	1323	1503	1437	1163	865	476	254	9911
55	5	14	47	150	397	633	790	724	473	190	37	10	3470
57	1	10	31	114	340	573	728	662	415	147	24	4	3049
60	0	4	16	69	258	483	635	569	330	93	13	1	2471
65	0	0	3	23	145	334	480	416	203	35	2	0	1641
70	0	0	0	5	65	195	325	270	107	8	0	0	975

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	74	155	352	605	885	1105	1275	1208	954	647	297	112	74	229	581	1186	2071	3176	4451	5659	6613	7260	7557	7669
45	35	85	233	456	730	955	1120	1053	804	495	186	55	35	120	353	809	1539	2494	3614	4667	5471	5966	6152	6207
50	12	39	131	318	575	805	965	898	654	346	105	21	12	51	182	500	1075	1880	2845	3743	4397	4743	4848	4869
55	2	11	69	195	420	655	810	743	507	218	50	4	2	13	82	277	697	1352	2162	2905	3412	3630	3680	3684
60	0	1	26	98	272	506	655	588	362	112	15	0	0	1	27	125	397	903	1558	2146	2508	2620	2635	2635
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	46	100	214	377	582	756	863	826	639	410	172	63	46	146	360	737	1319	2075	2938	3764	4403	4813	4985	5048

(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