

Climatography of the United States

No. 20

1971-2000

Station: JONESBORO 4 N, AR

COOP ID: 033734

Climate Division: AR 3

NWS Call Sign:

Elevation: 390 Feet

Lat: 35° 53N

Lon: 90° 42W

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	45.3	25.8	35.6	90	1890	26	43.9	1989	-18	1918	12	24.6	1977	912	0	.0	.0	11.4	4.7	20.9	.4
Feb	51.2	30.4	40.8	83	1918	28	48.2	1976	-13	1899	13	28.7	1978	678	0	.0	.0	16.0	2.8	14.1	.1
Mar	61.0	39.5	50.3	95	1929	24	55.5	1977	1	1899	6	44.1	1996	460	2	.0	.0	26.4	.1	6.6	.0
Apr	70.9	49.0	60.0	96+	1901	29	65.7	1981	26+	1919	2	53.4	1983	187	35	.0	.2	29.7	.0	.6	.0
May	79.6	58.3	69.0	101	1911	28	75.0	1977	29	1927	6	61.6	1976	58	180	.0	2.1	31.0	.0	.0	.0
Jun	87.9	66.8	77.4	110	1901	29	81.2	1971	41+	1897	1	71.9	1974	1	372	.3	13.1	30.0	.0	.0	.0
Jul	92.3	70.9	81.6	116	1901	12	87.5	1980	50+	1911	25	77.3	1994	0	514	1.4	21.7	31.0	.0	.0	.0
Aug	90.8	68.7	79.8	111+	1930	9	85.0	1983	45	1897	17	74.8	1992	0	457	1.1	17.6	31.0	.0	.0	.0
Sep	83.9	60.6	72.3	110+	1925	6	77.4	1998	33	1916	30	65.8	1974	20	237	.1	6.6	30.0	.0	.0	.0
Oct	74.2	48.7	61.5	98	1897	4	69.6	1971	21	1910	29	56.0	1976	166	57	.0	.4	30.9	.0	.5	.0
Nov	59.8	38.8	49.3	93	1930	19	55.2	1999	9	1950	25	42.5	1976	474	4	.0	.0	24.0	.1	6.9	.0
Dec	49.2	30.4	39.8	79	1906	3	47.5	1984	-7	1989	22	28.1	1983	781	0	.0	.0	14.4	2.3	16.6	.2
Ann	70.5	49.0	59.8	116	Jul 1901	12	87.5	Jul 1980	-18	Jan 1918	12	24.6	Jan 1977	3737	1858	2.9	61.7	305.8	10.0	66.2	.7

+ 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: 1890-2001

(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: JONESBORO 4 N, AR

COOP ID: 033734

Climate Division: AR 3

NWS Call Sign:

Elevation: 390 Feet Lat: 35°53N

Lon: 90°42W

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	3.29	3.09	4.73	1969	30	6.28	1982	.80	1986	7.9	5.7	2.4	.9	.87	1.18	1.66	2.08	2.49	2.92	3.40	3.96	4.71	5.87	6.95
Feb	3.56	2.72	4.83	1938	18	10.05	1990	.53	1999	7.5	5.3	2.4	1.1	.76	1.08	1.61	2.08	2.56	3.07	3.64	4.33	5.23	6.68	8.05
Mar	4.45	4.34	5.00	1975	29	11.82	1975	1.18	1985	9.2	7.3	3.3	1.3	1.43	1.85	2.48	3.01	3.52	4.06	4.64	5.32	6.20	7.57	8.83
Apr	4.99	4.79	3.65	1966	19	13.09	1991	1.51	1992	8.3	6.7	3.6	1.7	1.50	1.97	2.68	3.29	3.89	4.51	5.19	5.99	7.03	8.65	10.15
May	4.92	4.40	4.50	1973	27	9.98	1973	1.40	1994	9.7	7.5	3.6	1.5	1.92	2.38	3.03	3.57	4.07	4.59	5.15	5.80	6.62	7.88	9.03
Jun	3.29	3.16	3.82	1923	10	7.74	1992	.43	1988	6.5	5.1	2.3	1.0	.68	.98	1.46	1.90	2.35	2.82	3.36	4.01	4.86	6.23	7.52
Jul	2.73	2.40	3.75	1933	27	6.80	1994	.08	1980	6.5	4.6	2.1	.8	.33	.54	.93	1.31	1.71	2.16	2.68	3.33	4.21	5.66	7.06
Aug	2.67	1.88	4.38	1997	20	7.08	1975	.00	1980	5.6	4.1	1.7	1.0	.16	.41	.83	1.22	1.63	2.09	2.63	3.29	4.19	5.66	7.10
Sep	3.12	2.74	5.57	1922	1	8.24	1988	.38	1999	6.5	4.4	2.0	1.0	.42	.67	1.11	1.55	2.00	2.51	3.09	3.81	4.79	6.38	7.92
Oct	3.89	3.04	4.02	1980	18	15.66	1984	.16	1971	7.1	5.1	2.7	1.3	.60	.92	1.49	2.03	2.58	3.19	3.89	4.75	5.90	7.77	9.57
Nov	5.02	4.57	4.29	1957	18	9.86	1996	1.23	1976	8.8	6.9	3.5	1.6	1.55	2.03	2.74	3.34	3.93	4.55	5.22	6.01	7.03	8.62	10.10
Dec	4.25	3.84	4.78	1990	21	10.92	1990	.54	1985	9.0	6.6	2.7	1.3	1.02	1.42	2.04	2.59	3.14	3.72	4.37	5.14	6.15	7.76	9.26
Ann	46.18	46.65	5.57	Sep 1922	1	15.66	Oct 1984	.00	Aug 1980	92.6	69.3	32.3	14.5	32.22	34.90	38.35	40.97	43.31	45.57	47.91	50.50	53.65	58.22	62.19

+ 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: 1890-2001

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

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Station: JONESBORO 4 N, AR

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Climate Division: AR 3

NWS Call Sign:

Elevation: 390 Feet

Lat: 35°53N

Lon: 90°42W

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	1.2	.2	#	0	7.0	1985	3	7.0	1985	4+	2000	29	#+	2000	.6	.5	.3	.1	.0	.2	.0	.0	.0
Feb	.9	.0	#	0	8.0	1979	25	8.0	1979	1	1972	3	#+	1999	.5	.5	.2	.1	.0	.1	.0	.0	.0
Mar	.9	.0	#	0	5.0	1975	14	7.5	1971	4	1971	25	#+	1980	.3	.3	.2	@	.0	.1	.1	.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	#	2000	9	#+	2000	#	2000	9	#	2000	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.2	.0	#	0	4.0	1971	23	4.0	1971	#+	1995	28	#+	1995	.1	.1	@	.0	.0	.0	.0	.0	.0
Dec	.7	.0	#	0	3.5	1975	26	3.5	1975	2	1973	20	#+	2000	.4	.3	@	.0	.0	.1	.0	.0	.0
Ann	3.9	.2	N/A	N/A	8.0	Feb 1979	25	8.0	Feb 1979	4+	Jan 2000	29	#+	Dec 2000	1.9	1.7	.7	.2	.0	.5	.1	.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: 390 Feet

Lat: 35° 53N

Lon: 90° 42W

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	4/21	4/17	4/14	4/12	4/10	4/07	4/05	4/02	3/29
32	4/13	4/08	4/05	4/01	3/29	3/27	3/23	3/20	3/15
28	3/30	3/25	3/20	3/17	3/14	3/10	3/07	3/03	2/25
24	3/20	3/13	3/08	3/04	2/28	2/24	2/19	2/14	2/07
20	3/08	2/28	2/23	2/19	2/15	2/11	2/06	2/01	1/25
16	3/08	2/25	2/17	2/11	2/04	1/29	1/22	1/14	1/01
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	10/10	10/14	10/17	10/20	10/23	10/26	10/29	11/03
32	10/24	10/28	10/31	11/02	11/04	11/06	11/09	11/11	11/15
28	10/29	11/04	11/08	11/12	11/15	11/19	11/23	11/27	12/03
24	11/05	11/13	11/19	11/24	11/29	12/04	12/09	12/14	12/23
20	11/13	11/23	12/01	12/07	12/13	12/19	12/26	1/02	1/13
16	11/26	12/07	12/16	12/23	12/29	1/05	1/13	1/22	2/04
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	209	203	199	196	193	189	186	182	176
32	235	230	226	222	219	216	212	208	203
28	270	261	256	251	246	241	236	230	222
24	305	294	286	280	273	267	260	253	242
20	333	320	311	304	298	292	285	277	266
16	>365	>365	340	327	319	311	304	296	285

* 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:

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Climate Division: AR 3 NWS Call Sign: Elevation: 390 Feet Lat: 35° 53N Lon: 90° 42W

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	912	678	460	187	58	1	0	0	20	166	474	781	3737
60	757	544	318	93	20	0	0	0	4	82	338	630	2786
57	669	466	242	54	9	0	0	0	1	49	263	544	2297
55	612	415	197	35	5	0	0	0	0	32	219	486	2001
50	469	298	108	9	0	0	0	0	0	9	128	352	1373
32	111	45	2	0	0	0	0	0	0	0	4	55	217

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	222	291	568	838	1145	1360	1537	1480	1207	913	523	297	10381
55	10	17	49	183	438	670	824	767	517	233	48	15	3771
57	5	12	32	142	380	610	762	705	458	187	33	10	3336
60	0	6	15	92	297	520	669	612	371	127	17	3	2729
65	0	0	2	35	180	372	514	457	237	57	4	0	1858
70	0	0	0	9	93	229	359	307	130	18	0	0	1145

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	90	172	369	620	915	1134	1295	1234	978	676	327	137	90	262	631	1251	2166	3300	4595	5829	6807	7483	7810	7947
45	45	98	243	471	760	984	1140	1079	828	524	213	69	45	143	386	857	1617	2601	3741	4820	5648	6172	6385	6454
50	18	45	143	330	606	834	985	924	678	377	124	28	18	63	206	536	1142	1976	2961	3885	4563	4940	5064	5092
55	3	15	71	210	451	684	830	769	528	244	61	8	3	18	89	299	750	1434	2264	3033	3561	3805	3866	3874
60	0	2	31	112	303	534	675	614	385	134	26	0	0	2	33	145	448	982	1657	2271	2656	2790	2816	2816
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	50	95	210	378	604	781	890	845	654	430	182	69	50	145	355	733	1337	2118	3008	3853	4507	4937	5119	5188

(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