

Climatology of the United States

No. 20

1971-2000

Station: SPARKMAN, AR

COOP ID: 036768

Climate Division: AR 8

NWS Call Sign:

Elevation: 170 Feet Lat: 33°55N Lon: 92°50W

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	51.8	29.1	40.5	81+	1972	25	47.3	1990	-10	1966	30	30.4	1979	761	0	.0	.0	18.0	1.6	19.8	.0
Feb	58.2	32.5	45.4	86+	1986	18	53.0	1990	10+	1981	11	36.6	1978	550	0	.0	.0	21.3	1.0	14.4	.0
Mar	66.8	39.7	53.3	88	1966	31	59.1	1974	15	1965	20	47.7	1980	372	8	.0	.0	29.3	.0	6.3	.0
Apr	75.1	47.4	61.3	94	1974	1	67.8	1981	24	1971	7	55.5	1997	158	46	.0	.2	29.8	.0	1.2	.0
May	81.6	57.3	69.5	99	1964	26	73.7+	1991	36+	1992	7	64.4	1997	41	178	.0	2.6	31.0	.0	.0	.0
Jun	89.0	65.2	77.1	101+	1977	7	80.1	1998	46+	1984	1	73.4	1974	1	363	.4	15.5	30.0	.0	.0	.0
Jul	93.5	69.7	81.6	108+	1980	18	87.3	1998	52	1968	5	78.8	1971	0	516	3.5	25.2	31.0	.0	.0	.0
Aug	92.7	67.9	80.3	110	1980	22	88.0	1995	48+	1963	16	76.7	1971	0	475	4.1	22.3	31.0	.0	.0	.0
Sep	85.4	60.9	73.2	109	2000	1	78.9	1990	34+	1967	29	67.9	1974	11	256	.8	9.0	30.0	.0	.0	.0
Oct	75.3	48.1	61.7	93+	1981	1	68.4	1998	24	1993	30	55.6	1976	161	58	.0	.7	30.9	.0	1.2	.0
Nov	64.2	39.5	51.9	87	1993	14	57.5+	1989	10	1976	29	44.8	1976	402	8	.0	.0	27.7	.0	7.8	.0
Dec	54.4	32.4	43.4	79+	1966	7	49.4	1984	3	1989	24	31.5	1983	670	0	.0	.0	21.1	1.0	16.0	.0
Ann	74.0	49.1	61.6	110	Aug 1980	22	88.0	Aug 1995	-10	Jan 1966	30	30.4	Jan 1979	3127	1908	8.8	75.5	331.1	3.6	66.7	.0

+ 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

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

069-A

Climatology 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: SPARKMAN, AR

COOP ID: 036768

Climate Division: AR 8

NWS Call Sign:

Elevation: 170 Feet Lat: 33°55N

Lon: 92°50W

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	4.02	3.92	4.50	1991	7	9.50	1978	.25	1986	7.8	6.3	3.0	1.4	.56	.89	1.47	2.03	2.61	3.25	3.99	4.91	6.13	8.14	10.07
Feb	3.81	3.57	5.92	1950	12	8.87	1987	.39	1972	6.8	5.4	2.8	1.4	1.02	1.38	1.93	2.42	2.89	3.39	3.94	4.60	5.46	6.80	8.05
Mar	4.71	3.98	4.27	1985	20	10.76	1990	1.46	1982	7.9	6.4	3.2	1.5	1.53	1.97	2.63	3.20	3.74	4.30	4.91	5.63	6.56	7.99	9.32
Apr	4.54	3.63	9.49	1997	5	17.10	1997	.15	1987	7.4	6.1	3.3	1.7	.48	.82	1.45	2.08	2.76	3.53	4.42	5.54	7.06	9.58	12.04
May	5.10	4.58	4.00	1958	2	10.49	1981	.91	1996	8.6	6.9	3.4	1.9	1.25	1.73	2.47	3.13	3.79	4.48	5.25	6.17	7.37	9.27	11.05
Jun	4.16	3.83	4.25	1976	16	11.00	1986	.00+	1998	7.0	5.7	2.7	1.3	.00	1.03	1.90	2.54	3.14	3.76	4.43	5.18	6.19	7.77	9.25
Jul	3.43	2.87	3.94	1962	29	8.39	1981	.23	1993	6.8	5.1	1.9	.9	.60	.90	1.40	1.87	2.35	2.87	3.46	4.18	5.13	6.67	8.15
Aug	2.77	2.52	3.38	1974	31	8.68	1974	.00	1995	5.6	4.6	1.7	.9	.09	.31	.70	1.10	1.54	2.04	2.64	3.40	4.44	6.19	7.92
Sep	3.27	2.70	5.43	1980	28	11.10	1980	.46	1982	6.2	4.8	1.7	.9	.57	.85	1.33	1.78	2.24	2.74	3.30	3.99	4.91	6.39	7.81
Oct	4.29	3.58	5.60	1990	9	14.70	1984	.25	1977	5.6	5.0	2.9	1.7	.68	1.05	1.67	2.27	2.88	3.54	4.31	5.24	6.48	8.50	10.44
Nov	5.46	5.58	3.80	1984	27	13.77	1987	.42	1995	6.8	5.9	3.6	1.9	1.14	1.64	2.44	3.17	3.91	4.69	5.58	6.64	8.05	10.30	12.42
Dec	5.02	4.05	8.17	1987	29	17.48	1987	.81	1981	6.6	5.6	3.3	2.0	1.02	1.47	2.21	2.89	3.57	4.30	5.12	6.11	7.42	9.52	11.51
Ann	50.58	50.73	9.49	Apr 1997	5	17.48	Dec 1987	.00+	Jun 1998	83.1	67.8	33.5	17.5	31.93	35.38	39.88	43.36	46.49	49.55	52.75	56.31	60.68	67.10	72.72

+ 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: SPARKMAN, AR

COOP ID: 036768

Climate Division: AR 8

NWS Call Sign:

Elevation: 170 Feet

Lat: 33°55N

Lon: 92°50W

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	.6	.0	#	0	2.5	1988	6	6.1	1988	12	2000	28	1	2000	.2	.2	.0	.0	.0	.0	.0	.0	.0
Feb	.5	.0	#	0	6.0	1988	11	6.0	1988	3	2000	1	#+	2000	.1	.1	.1	.1	.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	#	1983	19	#	1983	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	#	1997	13	#	1997	#	1997	13	#	1997	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.1	.0	#	0	.9	1982	11	.9	1982	#+	1996	18	#+	1996	.1	.0	.0	.0	.0	.0	.0	.0	.0
Ann	1.2	.0	N/A	N/A	6.0	Feb 1988	11	6.1	Jan 1988	12	Jan 2000	28	1	Jan 2000	.4	.3	.1	.1	.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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Climate Division: AR 8

NWS Call Sign:

Elevation: 170 Feet

Lat: 33° 55N

Lon: 92° 50W

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	4/23	4/18	4/14	4/11	4/08	4/05	4/01	3/28	3/23
32	4/18	4/10	4/05	4/01	3/28	3/23	3/19	3/14	3/07
28	4/01	3/25	3/20	3/15	3/11	3/07	3/02	2/25	2/18
24	3/17	3/09	3/03	2/26	2/22	2/17	2/12	2/06	1/29
20	3/06	2/25	2/19	2/13	2/08	2/02	1/28	1/20	1/06
16	2/23	2/14	2/07	1/31	1/25	1/18	1/08	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	10/01	10/07	10/11	10/14	10/17	10/21	10/24	10/28	11/03
32	10/14	10/21	10/25	10/29	11/02	11/06	11/09	11/14	11/21
28	10/26	11/02	11/07	11/12	11/16	11/20	11/24	11/29	12/06
24	11/06	11/15	11/22	11/27	12/02	12/07	12/13	12/19	12/28
20	11/15	11/26	12/04	12/11	12/18	12/25	1/01	1/11	1/29
16	12/01	12/10	12/18	12/24	12/31	1/07	1/17	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	216	208	202	197	192	187	182	177	168
32	251	240	232	225	219	212	205	197	186
28	281	270	262	255	249	243	236	228	217
24	317	305	297	290	283	276	269	260	248
20	>365	353	332	320	311	302	294	284	271
16	>365	>365	>365	>365	346	328	318	308	297

* 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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NWS Call Sign:

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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	761	550	372	158	41	1	0	0	11	161	402	670	3127
60	611	419	236	74	11	0	0	0	2	80	272	519	2224
57	525	342	170	40	4	0	0	0	0	47	205	434	1767
55	467	294	133	25	2	0	0	0	0	31	166	378	1496
50	334	192	61	5	0	0	0	0	0	9	88	253	942
32	46	13	0	0	0	0	0	0	0	0	1	20	80

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	308	387	659	878	1160	1353	1539	1498	1235	920	596	374	10907
55	16	25	79	213	449	663	826	785	545	238	72	18	3929
57	11	17	54	168	390	603	764	723	485	192	50	12	3469
60	4	9	28	112	304	513	671	630	396	132	27	5	2831
65	0	0	8	46	178	363	516	475	256	58	8	0	1908
70	0	0	0	13	86	219	361	324	139	19	1	0	1162

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	139	231	443	661	929	1128	1299	1266	1011	689	381	186	139	370	813	1474	2403	3531	4830	6096	7107	7796	8177	8363
45	68	137	304	512	774	978	1144	1111	861	535	254	97	68	205	509	1021	1795	2773	3917	5028	5889	6424	6678	6775
50	36	70	185	367	619	828	989	956	711	386	151	47	36	106	291	658	1277	2105	3094	4050	4761	5147	5298	5345
55	11	29	92	235	464	678	834	801	561	249	76	21	11	40	132	367	831	1509	2343	3144	3705	3954	4030	4051
60	2	7	36	123	312	528	679	646	413	137	27	1	2	9	45	168	480	1008	1687	2333	2746	2883	2910	2911
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	98	163	288	428	616	768	870	842	680	447	243	117	98	261	549	977	1593	2361	3231	4073	4753	5200	5443	5560

(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