

Climatology of the United States

No. 20

1971-2000

Station: GRAVETTE, AR

COOP ID: 032930

Climate Division: AR 1

NWS Call Sign:

Elevation: 1,260 Feet Lat: 36° 26N

Lon: 94° 27W

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	46.4	24.1	35.3	77	1952	1	44.8	1990	-15	1984	19	23.1	1979	922	0	.0	.0	13.3	4.7	23.1	1.2
Feb	53.1	28.8	41.0	88	1996	22	50.4	1976	-14	1996	4	29.2	1978	673	0	.0	.0	16.9	2.6	17.0	.6
Mar	62.5	37.2	49.9	90	1995	22	54.3	1974	-14	1948	12	43.3	1975	472	1	.0	@	26.2	.3	9.9	.0
Apr	72.0	45.7	58.9	92	1987	18	64.8	1981	16	1957	13	52.1	1983	208	23	.0	.1	29.2	.0	2.7	.0
May	78.8	53.9	66.4	99	1953	28	71.8	1987	27	1963	1	61.3	1976	79	121	.0	.5	31.0	.0	.1	.0
Jun	86.6	61.7	74.2	103	1952	30	78.3	1994	40	1964	1	69.7	1974	7	281	.1	6.9	30.0	.0	.0	.0
Jul	92.5	65.6	79.1	113	1954	13	85.5	1980	44	1971	31	75.4	1989	0	434	1.9	20.0	31.0	.0	.0	.0
Aug	92.1	64.1	78.1	107+	1956	16	84.1	1980	44	1989	8	72.7	1992	3	410	2.3	18.8	31.0	.0	.0	.0
Sep	84.0	57.1	70.6	108	2000	2	77.9	1998	28	1984	30	62.3	1974	45	210	.5	7.0	30.0	.0	.2	.0
Oct	73.3	46.9	60.1	97	1953	1	64.0	1973	15	1993	31	54.0	1976	183	31	.0	.2	30.7	.0	2.0	.0
Nov	59.3	36.7	48.0	84+	1950	1	57.4	1999	4+	1959	17	41.0	1972	514	4	.0	.0	23.7	.4	10.4	.0
Dec	49.6	27.6	38.6	77+	1948	15	45.2	1984	-16	1989	23	24.3	1983	817	0	.0	.0	16.1	2.8	20.3	.6
Ann	70.9	45.8	58.4	113	Jul 1954	13	85.5	Jul 1980	-16	Dec 1989	23	23.1	Jan 1979	3923	1515	4.8	53.5	309.1	10.8	85.7	2.4

+ 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

034-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: GRAVETTE, AR

COOP ID: 032930

Climate Division: AR 1

NWS Call Sign:

Elevation: 1,260 Feet Lat: 36°26N

Lon: 94°27W

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	2.25	1.88	2.78	1969	29	5.88	1973	.01	1986	7.4	4.2	1.4	.6	.24	.41	.72	1.03	1.37	1.75	2.19	2.74	3.50	4.74	5.96
Feb	2.47	2.27	3.06	1997	21	6.43	1997	.32	1991	7.7	4.5	1.7	.6	.52	.75	1.11	1.44	1.77	2.12	2.52	3.00	3.62	4.63	5.58
Mar	4.22	4.11	3.48	1990	14	10.09	1973	.78	1992	9.5	6.9	2.8	1.4	1.17	1.57	2.17	2.70	3.22	3.77	4.37	5.08	6.00	7.45	8.80
Apr	4.44	4.00	4.74	1970	30	9.05	1983	.26	1989	9.5	6.6	2.9	1.6	1.03	1.44	2.09	2.67	3.25	3.87	4.56	5.38	6.46	8.17	9.78
May	5.38	5.63	4.80	1950	10	8.64	1990	1.44	1994	11.3	7.7	4.1	1.6	2.21	2.70	3.40	3.97	4.51	5.05	5.64	6.32	7.18	8.49	9.68
Jun	5.09	5.14	4.08	1948	23	9.21	2000	.73	1991	9.1	6.7	3.4	1.5	1.39	1.87	2.60	3.24	3.88	4.54	5.27	6.13	7.26	9.03	10.68
Jul	3.18	2.61	5.52	1975	27	10.04	1972	.32	1974	6.8	4.6	1.8	.8	.44	.70	1.16	1.60	2.06	2.57	3.16	3.89	4.86	6.46	8.00
Aug	3.18	2.98	3.85	1952	22	6.55	1974	.00	2000	7.2	4.8	2.4	.7	.71	1.16	1.69	2.11	2.51	2.92	3.36	3.88	4.55	5.59	6.54
Sep	4.86	4.43	5.90	1986	30	13.85	1986	.30	1979	8.6	5.9	3.0	1.5	.75	1.17	1.87	2.54	3.24	4.00	4.87	5.94	7.37	9.69	11.92
Oct	3.81	3.35	4.97	1998	5	8.93	1984	.72	1977	8.2	5.3	2.7	1.2	.88	1.24	1.79	2.29	2.79	3.32	3.92	4.62	5.55	7.03	8.42
Nov	4.81	4.79	6.03	1973	24	9.42+	1994	.36	1989	8.9	6.2	3.2	1.6	1.09	1.54	2.24	2.87	3.51	4.18	4.93	5.83	7.01	8.89	10.66
Dec	3.46	2.90	3.63	1984	13	10.00	1984	.47	1989	8.4	4.5	2.2	1.2	.60	.90	1.40	1.88	2.36	2.89	3.49	4.22	5.19	6.77	8.27
Ann	47.15	46.13	6.03	Nov 1973	24	13.85	Sep 1986	.00	Aug 2000	102.6	67.9	31.6	14.3	33.32	35.99	39.41	42.01	44.32	46.56	48.87	51.43	54.53	59.03	62.93

+ 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: GRAVETTE, AR

COOP ID: 032930

Climate Division: AR 1

NWS Call Sign:

Elevation: 1,260 Feet

Lat: 36°26N

Lon: 94°27W

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	1.4	1	1	11.0	1996	2	26.0	1979	10	1996	2	4	1979	1.9	1.6	.6	.3	@	4.9	2.7	1.3	.0
Feb	4.4	2.2	1	#	16.0	1975	23	16.5+	1978	16	1975	23	3	1978	1.7	1.2	.4	.1	.1	3.2	2.2	.8	@
Mar	2.0	.0	#	0	14.2	1994	8	16.6	1994	15	1989	6	2	1989	.7	.6	.3	.2	@	.6	.4	.3	.2
Apr	#	.0	#	0	#	1996	6	#+	1996	#	1996	6	#	1996	.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	1.5	1993	30	1.5	1993	1	1993	30	#	1993	@	@	.0	.0	.0	@	.0	.0	.0
Nov	.9	.0	#	0	5.0	1971	23	5.0	1971	4	1975	26	#+	2000	.4	.3	.2	@	.0	.5	.2	.0	.0
Dec	2.6	1.0	#	#	11.2	2000	13	11.2	2000	9	2000	13	3	2000	1.7	1.2	.3	.1	@	3.0	1.5	.3	.0
Ann	14.8	4.6	N/A	N/A	16.0	Feb 1975	23	26.0	Jan 1979	16	Feb 1975	23	4	Jan 1979	6.4	4.9	1.8	.7	.1	12.2	7.0	2.7	.2

+ 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 1

NWS Call Sign:

Elevation: 1,260 Feet

Lat: 36°26N

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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	5/11	5/06	5/03	4/29	4/27	4/24	4/21	4/17	4/12
32	5/01	4/25	4/21	4/17	4/14	4/11	4/08	4/04	3/29
28	4/16	4/11	4/08	4/05	4/02	3/30	3/28	3/24	3/19
24	4/04	3/30	3/26	3/22	3/19	3/16	3/13	3/09	3/03
20	3/27	3/20	3/15	3/10	3/06	3/02	2/26	2/21	2/14
16	3/17	3/08	3/03	2/26	2/21	2/16	2/11	2/06	1/29
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	9/21	9/26	9/30	10/03	10/06	10/09	10/12	10/15	10/20
32	9/26	10/03	10/08	10/12	10/15	10/19	10/23	10/28	11/03
28	10/10	10/16	10/21	10/25	10/29	11/02	11/07	11/12	11/18
24	10/27	11/02	11/07	11/11	11/14	11/18	11/22	11/26	12/03
20	11/02	11/09	11/14	11/19	11/23	11/28	12/02	12/08	12/15
16	11/13	11/20	11/25	11/29	12/03	12/07	12/12	12/17	12/24
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	181	174	169	165	161	158	153	149	142
32	207	199	193	188	183	179	174	168	159
28	230	223	218	214	210	205	201	196	189
24	265	256	250	244	239	235	229	223	214
20	287	278	272	266	261	256	251	245	236
16	315	304	297	290	284	278	272	264	254

* 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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Station: GRAVETTE, AR

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Climate Division: AR 1 NWS Call Sign: Elevation: 1,260 Feet Lat: 36° 26N Lon: 94° 27W

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	922	673	472	208	79	7	0	3	45	183	514	817	3923
60	768	542	328	107	27	1	0	0	15	85	376	666	2915
57	682	464	249	63	12	0	0	0	6	47	300	580	2403
55	624	413	203	41	7	0	0	0	3	30	254	523	2098
50	482	299	111	10	0	0	0	0	0	7	159	388	1456
32	123	49	3	0	0	0	0	0	0	0	10	74	259

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	224	301	555	805	1065	1264	1457	1430	1156	871	490	280	9898
55	12	21	42	155	359	574	744	717	469	188	44	16	3341
57	9	15	26	117	302	514	682	655	412	143	30	11	2916
60	1	9	12	71	224	425	589	562	330	88	16	4	2331
65	0	0	1	23	121	281	434	410	210	31	4	0	1515
70	0	0	0	5	50	156	284	267	119	7	0	0	888

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	83	168	349	573	823	1030	1214	1186	919	631	290	117	83	251	600	1173	1996	3026	4240	5426	6345	6976	7266	7383
45	38	98	229	429	668	880	1059	1031	769	479	183	60	38	136	365	794	1462	2342	3401	4432	5201	5680	5863	5923
50	11	49	135	296	513	730	904	876	620	336	103	27	11	60	195	491	1004	1734	2638	3514	4134	4470	4573	4600
55	3	18	70	179	362	580	749	721	472	211	55	9	3	21	91	270	632	1212	1961	2682	3154	3365	3420	3429
60	0	4	31	94	225	430	594	566	336	111	19	0	0	4	35	129	354	784	1378	1944	2280	2391	2410	2410
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	57	111	224	366	537	704	809	792	607	402	174	74	57	168	392	758	1295	1999	2808	3600	4207	4609	4783	4857

(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/normal/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