

Climatology of the United States

No. 20

1971-2000

Station: MAGNOLIA, AR

COOP ID: 034548

Climate Division: AR 8

NWS Call Sign:

Elevation: 318 Feet

Lat: 33°15N

Lon: 93°14W

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	52.9	30.6	41.8	83	1950	25	48.0	1990	-4	1962	12	31.5	1979	720	0	.0	.0	19.9	1.1	16.8	.0
Feb	59.2	34.1	46.7	88	1986	20	53.2	1976	-3	1951	2	35.4	1978	514	0	.0	.0	22.9	.6	11.1	.0
Mar	67.4	42.0	54.7	91	1995	22	60.2	1974	14	1996	9	50.0	1996	327	7	.0	.1	29.9	.0	5.0	.0
Apr	74.1	49.2	61.7	96+	1987	19	67.1	1981	25	1971	7	56.9	1983	136	36	.0	.3	30.0	.0	1.1	.0
May	81.0	59.1	70.1	99	1951	30	75.0	1996	35	1960	12	64.1	1976	29	186	.0	2.1	31.0	.0	.0	.0
Jun	87.6	66.2	76.9	101+	1952	28	81.7	1998	45	1966	1	73.1+	1976	1	357	.1	13.7	30.0	.0	.0	.0
Jul	91.6	69.6	80.6	108	1954	16	86.4	1998	50	1967	15	77.8	1972	0	484	2.1	23.1	31.0	.0	.0	.0
Aug	91.8	67.8	79.8	109	1999	20	85.1	2000	47	1986	29	75.6	1992	0	459	3.3	22.6	31.0	.0	.0	.0
Sep	85.3	61.9	73.6	109	2000	1	79.2	1980	32	1967	29	66.9	1974	11	268	.6	10.2	30.0	.0	.0	.0
Oct	76.0	50.3	63.2	97+	1953	1	66.9	1984	24	1993	31	55.8	1976	115	58	.0	.6	30.9	.0	.7	.0
Nov	64.0	40.3	52.2	88	1955	13	58.4	1985	13	1976	29	45.5	1976	389	4	.0	.0	27.6	.0	6.4	.0
Dec	55.7	33.4	44.6	83+	1948	13	55.5	1984	-3	1989	23	34.3	1983	634	0	.0	.0	23.2	.6	13.8	@
Ann	73.9	50.4	62.2	109+	Sep 2000	1	86.4	Jul 1998	-4	Jan 1962	12	31.5	Jan 1979	2876	1859	6.1	72.7	337.4	2.3	54.9	@

+ 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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1971-2000**

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

Station: MAGNOLIA, AR

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NWS Call Sign:

Elevation: 318 Feet Lat: 33°15N

Lon: 93°14W

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	4.51	4.39	3.03	1975	10	10.07	1999	.21	1983	9.6	6.8	3.3	1.4	.88	1.28	1.95	2.55	3.17	3.83	4.59	5.49	6.70	8.62	10.46
Feb	4.08	3.72	4.33	2001	16	7.95	1987	.00	1999	7.9	6.1	3.0	1.2	.98	1.57	2.24	2.77	3.26	3.77	4.32	4.96	5.78	7.04	8.21
Mar	5.16	4.68	4.63	1990	8	12.35	1990	1.37	1987	9.7	7.2	3.5	1.5	1.71	2.20	2.92	3.53	4.11	4.72	5.38	6.16	7.15	8.69	10.12
Apr	4.71	3.47	11.73	1997	5	16.82	1991	.66	1987	8.8	6.0	2.7	1.4	.70	1.09	1.77	2.42	3.10	3.85	4.71	5.76	7.17	9.47	11.69
May	4.96	4.20	4.65	2001	31	11.53	2000	1.24	1996	9.4	6.6	3.3	1.6	1.41	1.88	2.59	3.21	3.82	4.45	5.15	5.97	7.04	8.71	10.27
Jun	5.17	4.93	9.80	1974	8	13.36	1974	1.15	1998	9.1	6.6	3.1	1.5	1.26	1.74	2.50	3.17	3.83	4.54	5.32	6.26	7.48	9.42	11.24
Jul	3.47	2.49	7.93	1961	16	11.05	1971	.24	1993	7.8	5.3	2.5	1.0	.25	.48	.92	1.40	1.93	2.55	3.28	4.21	5.51	7.69	9.85
Aug	3.22	2.36	4.34	1993	3	9.34	1974	.17	1999	6.4	4.8	2.1	1.0	.39	.65	1.10	1.55	2.03	2.56	3.17	3.94	4.97	6.67	8.32
Sep	3.36	2.83	4.82	1974	1	12.61	1974	.13	1982	6.9	4.6	1.9	1.1	.45	.72	1.20	1.67	2.16	2.70	3.33	4.10	5.15	6.86	8.51
Oct	4.12	3.31	6.54	2001	11	13.91	1984	.33	1977	7.0	5.1	2.8	1.3	.46	.77	1.34	1.92	2.53	3.22	4.02	5.03	6.39	8.64	10.84
Nov	5.32	5.16	7.65	1969	18	12.80	2000	.78	1981	8.8	6.7	3.7	1.7	1.28	1.78	2.55	3.25	3.93	4.66	5.47	6.44	7.71	9.72	11.61
Dec	5.02	4.88	4.20+	1951	8	10.83	1982	.51	1981	9.5	7.0	3.3	1.7	1.31	1.78	2.51	3.15	3.78	4.45	5.19	6.06	7.21	9.01	10.70
Ann	53.10	52.60	11.73	Apr 1997	5	16.82	Apr 1991	.00	Feb 1999	100.9	72.8	35.2	16.4	36.97	40.07	44.05	47.08	49.78	52.40	55.11	58.10	61.74	67.04	71.63

+ 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

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NWS Call Sign:

Elevation: 318 Feet

Lat: 33°15N

Lon: 93°14W

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	1.4	.0	#	0	6.0	2000	28	7.9	2000	8	2000	28	1	2000	.7	.5	.1	.1	.0	.4	.2	.2	.0
Feb	.9	.0	#	0	4.5	1988	12	6.0	1988	5	1985	2	#+	2000	.7	.4	.1	.0	.0	.3	@	.0	.0
Mar	.1	.0	#	0	1.0	1971	3	1.0+	1987	1	1975	4	#+	1993	.1	.1	.0	.0	.0	.1	.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	.1	.0	0	0	1.3	1980	27	1.3	1980	0	0	0	0	0	.1	@	.0	.0	.0	.0	.0	.0	.0
Dec	.5	.0	#	0	7.5	1983	17	9.0	1983	#	2000	15	#	2000	.2	.1	@	@	.0	.0	.0	.0	.0
Ann	3.0	.0	N/A	N/A	7.5	Dec 1983	17	9.0	Dec 1983	8	Jan 2000	28	1	Jan 2000	1.8	1.1	.2	.1	.0	.8	.2	.2	.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

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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	4/19	4/15	4/12	4/09	4/07	4/04	4/02	3/29	3/25
32	4/15	4/09	4/05	4/02	3/30	3/27	3/23	3/19	3/13
28	4/07	3/30	3/25	3/20	3/15	3/11	3/06	2/28	2/19
24	3/15	3/07	3/02	2/25	2/20	2/16	2/10	2/04	1/26
20	3/04	2/23	2/15	2/09	2/03	1/28	1/21	1/12	0/00
16	2/24	2/13	2/05	1/29	1/22	1/13	1/01	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	10/04	10/09	10/13	10/16	10/19	10/22	10/26	10/29	11/04
32	10/18	10/24	10/29	11/02	11/05	11/09	11/13	11/17	11/23
28	11/01	11/05	11/09	11/12	11/15	11/18	11/21	11/25	12/01
24	11/13	11/20	11/25	11/29	12/03	12/07	12/12	12/17	12/25
20	11/17	11/29	12/07	12/14	12/21	12/29	1/06	1/17	0/00
16	12/09	12/17	12/22	12/27	1/02	1/08	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	214	207	203	199	195	191	187	183	176
32	247	237	231	225	220	214	209	202	193
28	282	266	258	251	245	239	233	226	216
24	322	307	299	292	286	280	274	267	258
20	>365	>365	345	329	318	308	299	288	274
16	>365	>365	>365	>365	>365	334	322	311	299

* 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	720	514	327	136	29	1	0	0	11	115	389	634	2876
60	572	382	195	54	6	0	0	0	1	44	256	488	1998
57	485	306	133	25	2	0	0	0	0	21	188	403	1563
55	428	259	99	13	0	0	0	0	0	11	149	349	1308
50	299	160	39	1	0	0	0	0	0	2	74	231	806
32	34	7	0	0	0	0	0	0	0	0	0	18	59

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	337	416	703	890	1180	1347	1507	1482	1247	966	605	407	11087
55	18	25	89	213	467	657	794	769	557	264	64	25	3942
57	13	16	61	165	406	597	732	707	497	211	43	17	3465
60	7	8	30	104	318	507	639	614	408	142	21	9	2807
65	0	0	7	36	186	357	484	459	268	58	4	0	1859
70	0	0	0	7	88	215	329	313	149	15	0	0	1116

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	196	298	517	702	961	1133	1280	1263	1037	754	421	245	196	494	1011	1713	2674	3807	5087	6350	7387	8141	8562	8807
45	111	192	375	552	806	983	1125	1108	887	600	289	144	111	303	678	1230	2036	3019	4144	5252	6139	6739	7028	7172
50	56	108	247	408	651	833	970	953	737	449	180	79	56	164	411	819	1470	2303	3273	4226	4963	5412	5592	5671
55	27	55	142	272	496	683	815	798	587	307	101	38	27	82	224	496	992	1675	2490	3288	3875	4182	4283	4321
60	9	21	67	157	343	533	660	643	442	179	46	14	9	30	97	254	597	1130	1790	2433	2875	3054	3100	3114
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	127	198	331	460	648	782	869	846	699	495	263	159	127	325	656	1116	1764	2546	3415	4261	4960	5455	5718	5877

(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