

Climatography of the United States

No. 20

1971-2000

Station: BELZONI, MS

COOP ID: 220660

Climate Division: MS 4

NWS Call Sign:

Elevation: 110 Feet

Lat: 33° 12N

Lon: 90° 29W

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	51.9	33.1	42.5	85	1957	10	49.3	1990	-1+	1962	11	31.7	1977	698	1	.0	.0	18.4	2.0	14.9	.0
Feb	58.1	36.9	47.5	84+	1952	13	55.9	1976	5+	1951	1	35.1	1978	496	6	.0	.0	20.9	1.0	8.9	.0
Mar	66.6	44.4	55.5	89	1963	29	60.0	1974	14	1996	9	50.3	1978	305	10	.0	.0	28.7	.1	2.7	.0
Apr	75.2	51.4	63.3	95+	1987	22	69.8	1981	30+	1983	16	57.0	1983	116	66	.0	.5	29.9	.0	.2	.0
May	83.3	60.6	72.0	100+	1951	31	76.2	1998	41+	1954	6	65.6	1976	17	232	@	5.9	31.0	.0	.0	.0
Jun	90.2	67.8	79.0	105	1977	7	82.8	1998	46	1966	1	74.7	1974	0	420	.4	18.7	30.0	.0	.0	.0
Jul	93.0	70.8	81.9	107+	1980	16	85.6	1980	52	1967	15	78.9	1972	0	524	2.2	24.8	31.0	.0	.0	.0
Aug	92.7	69.0	80.9	105	2000	18	85.6	2000	52	1961	22	77.2	1992	0	492	2.2	23.8	31.0	.0	.0	.0
Sep	87.7	62.9	75.3	106	2000	1	81.1	1998	35+	1967	29	69.6	1974	7	315	.5	14.8	30.0	.0	.0	.0
Oct	77.9	51.2	64.6	97+	1954	2	70.4	1998	26+	1957	28	58.0	1976	110	96	.0	2.0	31.0	.0	.2	.0
Nov	65.7	42.8	54.3	89+	1955	14	59.7	1994	16+	1950	24	43.3	1976	339	17	.0	.0	27.8	@	4.1	.0
Dec	55.7	35.9	45.8	84	1951	31	55.9	1984	1+	1989	23	36.0	1989	599	4	.0	.0	21.3	1.0	11.8	.0
Ann	74.8	52.2	63.6	107+	Jul 1980	16	85.6+	Aug 2000	-1+	Jan 1962	11	31.7	Jan 1977	2687	2183	5.3	90.5	331.0	4.1	42.8	.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/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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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: BELZONI, MS

COOP ID: 220660

Climate Division: MS 4

NWS Call Sign:

Elevation: 110 Feet

Lat: 33°12N

Lon: 90°29W

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	5.84	4.62	5.28	1949	2	13.58	1999	.43	1986	9.5	7.7	4.0	1.6	1.27	1.81	2.67	3.44	4.22	5.04	5.97	7.09	8.55	10.89	13.10
Feb	4.35	4.01	4.28	1966	10	9.14	1983	.95	1972	7.6	5.9	3.1	1.6	1.31	1.73	2.34	2.88	3.39	3.93	4.52	5.21	6.11	7.51	8.80
Mar	6.40	5.68	6.50	1973	16	17.49	1973	2.46	1996	9.0	7.4	4.0	2.2	2.22	2.83	3.70	4.45	5.16	5.89	6.68	7.61	8.80	10.64	12.33
Apr	5.79	5.40	6.50	2000	2	15.71	1991	.25	1976	7.3	5.7	3.3	2.2	.94	1.44	2.28	3.08	3.90	4.80	5.82	7.07	8.74	11.44	14.03
May	6.17	6.17	6.35	1998	29	14.01	1983	1.35	1988	9.3	7.5	3.7	2.0	1.69	2.27	3.16	3.94	4.70	5.50	6.38	7.43	8.79	10.93	12.93
Jun	3.99	4.01	4.50	1996	2	10.17	1989	.57	1991	8.0	6.0	2.6	1.1	1.14	1.52	2.10	2.59	3.08	3.58	4.14	4.80	5.65	6.99	8.24
Jul	5.12	4.55	7.30	1980	21	14.64	1971	.78	2000	8.3	6.3	2.8	1.5	1.09	1.56	2.31	2.99	3.68	4.41	5.23	6.22	7.53	9.61	11.58
Aug	3.05	2.46	3.50	1992	27	8.99	1975	.00	1999	5.9	4.5	1.9	.9	.07	.25	.64	1.07	1.56	2.13	2.82	3.70	4.94	7.05	9.14
Sep	2.84	2.48	7.50	1958	20	6.04	1979	.39	1995	6.0	4.5	1.8	.9	.62	.88	1.29	1.67	2.05	2.45	2.90	3.44	4.16	5.30	6.37
Oct	3.78	3.10	4.10	1982	7	15.34	1984	.05	1978	5.7	4.6	2.2	1.4	.40	.68	1.21	1.73	2.30	2.94	3.69	4.62	5.89	7.99	10.04
Nov	5.19	4.69	5.87	1948	19	10.52	1972	1.34	1971	7.8	6.5	3.1	1.9	1.79	2.28	2.99	3.60	4.17	4.77	5.42	6.18	7.14	8.65	10.03
Dec	5.74	4.56	5.35	1982	4	18.52	1982	.72	1984	8.0	7.0	3.6	2.1	1.20	1.72	2.56	3.33	4.10	4.93	5.86	6.98	8.45	10.82	13.05
Ann	58.26	57.52	7.50	Sep 1958	20	18.52	Dec 1982	.00	Aug 1999	92.4	73.6	36.1	19.4	40.34	43.77	48.19	51.55	54.55	57.45	60.46	63.79	67.84	73.73	78.83

+ 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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Lat: 33°12N

Lon: 90°29W

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	.3	.0	0	0	1.5	1975	12	2.0	1975	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Feb	#	.0	#	0	#	1984	28	#+	1984	#	1989	7	#	1989	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Nov	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Ann	.3	.0	N/A	N/A	1.5	Jan 1975	12	2.0	Jan 1975	#	Feb 1989	7	#	Feb 1989	-9.9	-9.9	-9.9	-9.9	-9.9	.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

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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	4/12	4/07	4/03	3/31	3/28	3/25	3/21	3/18	3/12
32	4/04	3/26	3/20	3/15	3/10	3/06	2/28	2/22	2/14
28	3/14	3/05	2/28	2/23	2/18	2/13	2/08	2/02	1/25
24	3/10	3/01	2/22	2/17	2/11	2/06	1/31	1/24	1/13
20	2/18	2/08	2/01	1/25	1/18	1/10	12/30	0/00	0/00
16	2/10	1/29	1/19	1/07	0/00	0/00	0/00	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	10/13	10/19	10/24	10/28	10/31	11/04	11/08	11/12	11/19
32	10/27	11/02	11/07	11/11	11/14	11/17	11/21	11/26	12/02
28	11/07	11/14	11/19	11/24	11/28	12/02	12/07	12/12	12/19
24	11/14	11/25	12/03	12/10	12/17	12/23	12/31	1/08	1/22
20	12/12	12/19	12/24	12/29	1/02	1/07	1/14	0/00	0/00
16	12/23	1/02	1/10	1/19	2/04	0/00	0/00	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	241	233	227	222	217	212	207	201	192
32	275	266	259	253	248	243	237	230	221
28	317	305	297	289	283	276	268	260	248
24	>365	335	322	313	305	298	290	280	268
20	>365	>365	>365	>365	>365	346	332	320	307
16	>365	>365	>365	>365	>365	>365	>365	>365	342

* 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	698	496	305	116	17	0	0	0	7	110	339	599	2687
60	555	367	180	47	3	0	0	0	1	48	221	456	1878
57	469	296	122	22	1	0	0	0	0	25	163	375	1473
55	415	253	90	12	0	0	0	0	0	15	130	324	1239
50	293	164	35	2	0	0	0	0	0	4	65	217	780
32	38	11	0	0	0	0	0	0	0	0	0	18	67

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	364	445	728	940	1238	1410	1547	1515	1299	1010	668	446	11610
55	28	43	106	263	525	720	834	802	609	312	108	39	4389
57	20	30	75	212	463	660	772	740	549	260	81	28	3890
60	12	17	40	147	373	570	679	647	459	189	49	16	3198
65	1	6	10	66	232	420	524	492	315	96	17	4	2183
70	0	0	1	21	119	273	369	338	188	38	4	0	1351

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	191	279	507	725	1012	1193	1320	1288	1076	780	453	249	191	470	977	1702	2714	3907	5227	6515	7591	8371	8824	9073
45	110	179	364	575	857	1043	1165	1133	926	625	320	151	110	289	653	1228	2085	3128	4293	5426	6352	6977	7297	7448
50	53	101	242	429	702	893	1010	978	776	476	206	86	53	154	396	825	1527	2420	3430	4408	5184	5660	5866	5952
55	25	49	141	294	547	743	855	823	626	330	120	39	25	74	215	509	1056	1799	2654	3477	4103	4433	4553	4592
60	3	18	65	174	395	593	700	668	477	204	58	13	3	21	86	260	655	1248	1948	2616	3093	3297	3355	3368
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	107	167	302	457	686	819	899	866	717	511	273	142	107	274	576	1033	1719	2538	3437	4303	5020	5531	5804	5946

(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