

Climatography of the United States

No. 20

1971-2000

Station: CLARKSDALE, MS

COOP ID: 221707

Climate Division: MS 1

NWS Call Sign:

Elevation: 173 Feet

Lat: 34° 12N

Lon: 90° 34W

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	48.5	32.4	40.5	80+	1943	23	47.6	1990	-1+	1930	18	30.0	1977	761	0	.0	.0	14.5	3.5	17.4	@
Feb	54.4	36.7	45.6	81+	1932	10	53.6	1976	0	1951	2	34.0	1978	545	1	.0	.0	18.3	1.8	11.1	.0
Mar	63.4	43.8	53.6	88	1939	23	60.0	1974	13	1943	3	48.4	1996	362	9	.0	.0	27.5	.2	3.5	.0
Apr	72.7	52.2	62.5	94+	1943	30	68.9	1981	29+	1987	1	56.5	1983	136	60	.0	.2	29.6	.0	.4	.0
May	81.5	61.4	71.5	101+	1934	31	76.8	1998	40	1954	4	65.1	1976	27	227	.1	3.5	31.0	.0	.0	.0
Jun	89.0	69.1	79.1	107+	1936	20	82.9	1998	50+	1933	15	74.5	1974	0	421	.2	15.1	30.0	.0	.0	.0
Jul	91.6	72.3	82.0	108	1930	29	86.2	1980	53	1947	23	78.3	1994	0	527	1.2	21.6	31.0	.0	.0	.0
Aug	90.3	70.2	80.3	109	1935	8	84.3	1995	52	1986	29	73.9	1992	0	473	.6	18.6	31.0	.0	.0	.0
Sep	85.0	64.0	74.5	105	1951	1	80.0	1998	38	1942	29	68.9	1974	9	294	.1	9.5	30.0	.0	.0	.0
Oct	75.2	52.2	63.7	97	1941	1	71.0	1971	29	1993	31	57.6	1976	128	87	.0	.7	30.9	.0	.3	.0
Nov	62.2	43.2	52.7	87	1971	3	58.1	1985	13	1950	25	44.8	1976	377	9	.0	.0	25.5	.1	4.6	.0
Dec	52.0	35.5	43.8	81	1982	3	53.8	1984	-2	1989	24	33.8	1989	660	1	.0	.0	18.9	1.5	13.6	.1
Ann	72.2	52.8	62.5	109	Aug 1935	8	86.2	Jul 1980	-2	Dec 1989	24	30.0	Jan 1977	3005	2109	2.2	69.2	318.2	7.1	50.9	.1

+ 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: 1930-2001

(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: CLARKSDALE, MS

COOP ID: 221707

Climate Division: MS 1

NWS Call Sign:

Elevation: 173 Feet

Lat: 34°12N

Lon: 90°34W

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	5.16	4.15	4.30	1999	21	16.36	1999	.77	1986	11.0	7.8	3.4	1.4	1.13	1.60	2.36	3.04	3.73	4.46	5.28	6.26	7.56	9.62	11.57	
Feb	4.78	4.12	5.77	1966	10	12.53	1990	.88	1972	9.5	6.3	3.4	1.6	1.09	1.53	2.23	2.86	3.49	4.16	4.91	5.80	6.98	8.84	10.60	
Mar	5.45	5.24	4.60	1992	10	12.43	1973	1.53	1986	10.8	7.6	3.8	1.8	1.96	2.47	3.21	3.83	4.43	5.04	5.70	6.47	7.45	8.97	10.37	
Apr	5.11	4.54	6.02	1942	9	17.94	1991	.63	1981	8.7	6.5	3.3	1.9	1.06	1.52	2.27	2.96	3.65	4.38	5.21	6.21	7.53	9.65	11.64	
May	5.17	5.36	4.20	1974	16	12.43	1974	.82	1988	10.6	7.5	3.2	1.7	1.32	1.81	2.56	3.23	3.88	4.57	5.34	6.25	7.44	9.32	11.09	
Jun	4.99	4.94	5.95	1980	24	12.60	1989	.04	1988	9.0	6.2	3.5	1.7	.76	1.18	1.90	2.59	3.31	4.09	5.00	6.10	7.58	9.98	12.29	
Jul	4.11	3.08	5.67	1989	16	13.36	1989	.80	1986	8.0	5.7	2.7	1.2	.80	1.17	1.77	2.33	2.89	3.49	4.18	5.00	6.09	7.84	9.51	
Aug	2.53	2.33	4.54	1982	14	8.49	1982	.02	1980	6.2	4.2	1.7	.7	.18	.33	.66	1.00	1.39	1.84	2.38	3.07	4.03	5.65	7.25	
Sep	2.93	2.76	3.90	1959	27	8.48	1980	.23	1995	6.8	4.7	1.9	.9	.54	.80	1.23	1.63	2.03	2.47	2.97	3.57	4.37	5.65	6.88	
Oct	3.12	3.14	9.61	2001	11	12.58	1984	.00	2000	6.8	4.5	2.2	.9	.40	.79	1.32	1.77	2.21	2.68	3.21	3.85	4.68	6.01	7.27	
Nov	5.53	4.78	5.50	2000	24	12.02	1987	1.20	1981	9.7	6.5	3.6	1.9	1.43	1.95	2.75	3.46	4.16	4.89	5.71	6.68	7.94	9.94	11.81	
Dec	5.36	4.51	4.26	1982	4	15.99	1982	.51	1980	9.6	6.9	3.5	2.0	1.09	1.58	2.37	3.09	3.81	4.59	5.47	6.53	7.92	10.16	12.28	
Ann	54.24	53.04	9.61	Oct 2001	11	17.94	Apr 1991	.00	Oct 2000	106.7	74.4	36.2	17.7	36.08	39.50	43.94	47.35	50.39	53.36	56.44	59.86	64.03	70.13	75.45	

+ 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: 1930-2001

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

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Station: CLARKSDALE, MS

COOP ID: 221707

Climate Division: MS 1

NWS Call Sign:

Elevation: 173 Feet

Lat: 34° 12N

Lon: 90° 34W

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	1.6	.0	0	0	10.0	1988	6	10.0	1988	0	0	0	0	0	.4	.4	.2	.1	.1	.0	.0	.0	.0
Feb	.9	.0	#	0	3.5	1988	12	3.5	1988	#+	1989	7	#+	1989	.3	.3	.2	.0	.0	.0	.0	.0	.0
Mar	.2	.0	#	0	2.4	1971	3	2.4	1971	2	1971	3	#	1971	.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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.3	.0	0	0	2.5	1983	17	2.5	1983	0	0	0	0	0	.2	.2	.0	.0	.0	.0	.0	.0	.0
Ann	3.0	.0	N/A	N/A	10.0	Jan 1988	6	10.0	Jan 1988	2	Mar 1971	3	#+	Feb 1989	1.0	1.0	.4	.1	.1	.1	.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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No. 20 1971-2000

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Climate Division: MS 1

NWS Call Sign:

Elevation: 173 Feet

Lat: 34° 12N

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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	4/13	4/08	4/05	4/02	3/30	3/27	3/24	3/20	3/16
32	4/04	3/28	3/23	3/18	3/14	3/10	3/06	2/28	2/21
28	3/21	3/13	3/07	3/01	2/25	2/20	2/14	2/08	1/31
24	3/14	3/05	2/26	2/20	2/15	2/09	2/04	1/28	1/18
20	3/02	2/21	2/14	2/07	2/01	1/26	1/19	1/09	0/00
16	2/10	2/02	1/26	1/18	1/10	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	10/17	10/22	10/26	10/29	11/01	11/04	11/07	11/11	11/16
32	10/26	11/01	11/05	11/09	11/12	11/15	11/19	11/23	11/29
28	11/09	11/16	11/20	11/25	11/28	12/02	12/06	12/11	12/18
24	11/14	11/24	12/01	12/07	12/13	12/18	12/24	12/31	1/10
20	12/06	12/16	12/22	12/28	1/03	1/09	1/16	1/25	0/00
16	12/18	12/27	1/03	1/10	1/19	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	236	229	224	220	216	211	207	202	195
32	269	260	253	247	242	237	231	224	215
28	306	296	288	282	276	270	264	256	246
24	344	324	313	304	296	289	281	272	259
20	>365	>365	>365	347	334	325	316	306	294
16	>365	>365	>365	>365	>365	>365	>365	346	330

* 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: MS 1 NWS Call Sign: Elevation: 173 Feet Lat: 34°12N Lon: 90°34W

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	545	362	136	27	0	0	0	9	128	377	660	3005
60	614	416	230	60	6	0	0	0	1	59	248	516	2150
57	527	341	165	31	2	0	0	0	0	32	183	432	1713
55	470	294	129	19	1	0	0	0	0	20	146	379	1458
50	340	194	60	4	0	0	0	0	0	5	74	262	939
32	53	15	0	0	0	0	0	0	0	0	1	29	98

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	315	394	670	914	1223	1411	1550	1496	1274	983	622	394	11246
55	20	29	86	243	511	721	837	783	584	290	78	30	4212
57	14	20	60	196	450	661	775	721	524	240	55	21	3737
60	9	11	31	135	362	571	682	628	436	174	30	12	3081
65	0	1	9	60	227	421	527	473	294	87	9	1	2109
70	0	0	0	19	121	275	372	321	171	35	1	0	1315

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	136	222	426	665	971	1165	1298	1250	1035	742	389	190	136	358	784	1449	2420	3585	4883	6133	7168	7910	8299	8489
45	74	134	290	516	816	1015	1143	1095	885	588	266	106	74	208	498	1014	1830	2845	3988	5083	5968	6556	6822	6928
50	34	69	180	374	661	865	988	940	735	435	159	56	34	103	283	657	1318	2183	3171	4111	4846	5281	5440	5496
55	12	27	96	244	506	715	833	785	585	295	86	27	12	39	135	379	885	1600	2433	3218	3803	4098	4184	4211
60	1	2	40	141	358	565	678	630	439	177	39	4	1	3	43	184	542	1107	1785	2415	2854	3031	3070	3074
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	78	129	246	407	649	806	896	864	703	472	223	100	78	207	453	860	1509	2315	3211	4075	4778	5250	5473	5573

(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