

Climatography of the United States

No. 20

1971-2000

Station: NATCHEZ, MS

COOP ID: 226177

Climate Division: MS 7

NWS Call Sign:

Elevation: 195 Feet

Lat: 31° 33N

Lon: 91° 23W

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	58.3	38.8	48.6	83	1952	2	55.1	1999	4	1940	27	39.3	1977	522	0	.0	.0	24.0	.4	10.4	.0
Feb	63.0	41.9	52.5	85	1957	8	58.6	1990	8+	1951	2	43.3	1978	357	6	.0	.0	24.4	.4	6.3	.0
Mar	70.4	48.7	59.6	91	1946	30	65.5	1974	18+	1943	3	55.4	1978	199	29	.0	.0	30.2	.0	1.7	.0
Apr	76.7	54.5	65.6	92	1943	30	71.0	1981	28	1940	13	60.5	1983	69	87	.0	.1	30.0	.0	.1	.0
May	83.1	62.7	72.9	99	1977	31	76.2	1996	30	1962	2	69.1	1976	5	250	.0	2.7	31.0	.0	.0	.0
Jun	88.6	69.1	78.9	102	1963	15	82.6	1998	49	1984	1	76.4	1974	0	416	.0	15.0	30.0	.0	.0	.0
Jul	91.0	72.1	81.6	102+	1930	12	84.6	1980	55	1967	15	79.3	1994	0	513	.2	23.7	31.0	.0	.0	.0
Aug	90.8	71.3	81.1	105	1935	9	83.7	1993	50	1946	31	78.2	1992	0	497	.1	23.3	31.0	.0	.0	.0
Sep	86.7	66.1	76.4	103+	2000	1	81.4	1972	40	1967	29	73.0	1974	1	343	.2	11.3	30.0	.0	.0	.0
Oct	78.6	55.0	66.8	98	1963	7	71.1	1985	27	1957	28	61.3	1976	57	111	.0	1.0	31.0	.0	.1	.0
Nov	68.4	47.1	57.8	87	1936	1	64.2	1985	18	1938	28	49.7	1976	247	29	.0	.0	28.9	.0	3.0	.0
Dec	60.8	40.8	50.8	83+	1933	17	60.3	1984	5	1989	23	42.3+	2000	453	12	.0	.0	26.0	.3	8.6	.0
Ann	76.4	55.7	66.1	105	Aug 1935	9	84.6	Jul 1980	4	Jan 1940	27	39.3	Jan 1977	1910	2293	.5	77.1	347.5	1.1	30.2	.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: 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: NATCHEZ, MS

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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	6.44	5.14	7.73	1994	27	14.37	1990	1.51	1986	11.4	8.3	3.8	2.2	1.54	2.14	3.08	3.92	4.76	5.64	6.62	7.80	9.34	11.77	14.07
Feb	5.03	4.54	5.40	1945	5	12.03	1997	.84	2000	8.7	6.7	3.4	1.8	1.40	1.88	2.60	3.23	3.85	4.50	5.21	6.05	7.15	8.87	10.47
Mar	6.74	6.70	7.18	2001	2	15.07	1980	2.05	1978	10.0	7.5	4.2	2.3	3.01	3.61	4.45	5.12	5.75	6.39	7.07	7.85	8.83	10.32	11.66
Apr	6.07	4.44	8.00	1974	12	14.91	1977	1.02	1987	8.0	5.8	3.5	1.9	.92	1.43	2.31	3.15	4.02	4.97	6.07	7.41	9.21	12.13	14.94
May	5.49	4.87	10.51	1954	1	12.52	1983	.16	1998	8.8	6.8	3.5	1.8	.85	1.32	2.12	2.88	3.66	4.52	5.51	6.71	8.32	10.94	13.45
Jun	4.68	4.46	6.30	1934	17	12.29	1992	.51	1990	8.8	6.4	3.0	1.8	.87	1.29	1.97	2.61	3.26	3.95	4.75	5.70	6.98	9.02	10.97
Jul	4.03	3.52	4.13	1969	19	8.36	1988	.70	2000	9.9	7.1	2.9	1.0	1.17	1.55	2.12	2.62	3.11	3.62	4.18	4.84	5.69	7.03	8.28
Aug	3.89	3.16	4.57	1967	27	9.21	1992	.85	1990	8.2	5.9	2.4	1.2	.85	1.21	1.78	2.30	2.81	3.36	3.98	4.72	5.70	7.25	8.72
Sep	3.73	2.87	4.70	1954	17	12.00	1971	.47	1989	7.4	4.8	2.2	1.3	.64	.96	1.50	2.02	2.54	3.11	3.76	4.55	5.60	7.30	8.93
Oct	3.97	3.07	8.48	1984	21	17.74	1984	.08	1989	6.2	4.5	2.5	1.2	.37	.65	1.19	1.74	2.34	3.02	3.82	4.83	6.22	8.53	10.80
Nov	5.58	5.03	6.00	1948	28	13.06	1986	1.20	1999	8.3	6.4	3.7	1.8	1.45	1.98	2.79	3.50	4.20	4.94	5.77	6.74	8.01	10.02	11.89
Dec	6.44	5.96	6.69	1973	24	17.09	1982	1.92	1984	10.1	7.8	4.1	2.1	2.08	2.69	3.59	4.36	5.10	5.87	6.71	7.69	8.96	10.93	12.75
Ann	62.09	61.63	10.51	May 1954	1	17.74	Oct 1984	.08	Oct 1989	105.8	78.0	39.2	20.4	46.34	49.45	53.39	56.36	58.99	61.51	64.11	66.97	70.42	75.40	79.69

+ 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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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	.8	.0	#	0	6.0	1977	31	7.5	1977	2	1982	14	#+	1982	.3	.3	.1	.1	.0	@	.0	.0	.0
Feb	#	.0	#	0	#	1989	7	#+	1989	#	1989	7	#	1989	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1982	6	#+	1982	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.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	#	1976	29	#	1976	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	#	0	#	1990	24	#+	1990	#	1990	24	#	1990	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.8	.0	N/A	N/A	6.0	Jan 1977	31	7.5	Jan 1977	2	Jan 1982	14	#+	Dec 1990	.3	.3	.1	.1	.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	4/16	4/09	4/04	3/31	3/27	3/23	3/19	3/14	3/08
32	3/25	3/18	3/14	3/10	3/07	3/03	2/27	2/23	2/17
28	3/14	3/06	3/01	2/24	2/19	2/15	2/10	2/04	1/28
24	3/06	2/24	2/16	2/09	2/03	1/28	1/22	1/14	1/03
20	2/12	2/03	1/27	1/20	1/13	1/02	0/00	0/00	0/00
16	1/20	1/03	0/00	0/00	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	10/20	10/26	10/30	11/03	11/07	11/10	11/14	11/19	11/25
32	10/31	11/06	11/11	11/14	11/18	11/21	11/25	11/29	12/05
28	11/16	11/22	11/26	11/30	12/04	12/07	12/11	12/16	12/22
24	11/21	12/01	12/08	12/15	12/20	12/26	1/01	1/09	1/19
20	12/13	12/22	12/29	1/04	1/12	1/22	0/00	0/00	0/00
16	1/02	1/18	0/00	0/00	0/00	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	256	245	237	230	224	218	211	203	192
32	281	272	266	261	255	250	245	238	229
28	312	304	297	292	287	282	276	270	261
24	354	337	329	322	316	310	304	296	286
20	>365	>365	>365	>365	>365	>365	350	336	321
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

* 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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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	522	357	199	69	5	0	0	0	1	57	247	453	1910
60	384	232	101	19	0	0	0	0	0	16	146	318	1216
57	310	170	59	7	0	0	0	0	0	6	100	248	900
55	265	135	38	3	0	0	0	0	0	3	74	208	726
50	174	66	10	0	0	0	0	0	0	0	29	124	403
32	12	0	0	0	0	0	0	0	0	0	0	4	16

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	525	573	853	1008	1268	1406	1536	1520	1332	1077	772	586	12456
55	65	63	178	321	555	716	823	807	642	367	156	77	4770
57	47	42	137	265	493	656	761	745	582	308	121	55	4212
60	29	21	86	187	400	566	668	652	492	225	78	32	3436
65	0	6	29	87	250	416	513	497	343	111	29	12	2293
70	0	0	7	26	121	267	358	342	204	38	9	1	1373

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	320	398	627	786	1039	1181	1304	1289	1106	847	547	371	320	718	1345	2131	3170	4351	5655	6944	8050	8897	9444	9815
45	210	280	476	636	884	1031	1149	1134	956	692	407	252	210	490	966	1602	2486	3517	4666	5800	6756	7448	7855	8107
50	126	179	340	487	729	881	994	979	806	537	279	153	126	305	645	1132	1861	2742	3736	4715	5521	6058	6337	6490
55	68	100	214	343	574	731	839	824	656	385	172	91	68	168	382	725	1299	2030	2869	3693	4349	4734	4906	4997
60	33	49	116	214	419	581	684	669	507	245	94	43	33	82	198	412	831	1412	2096	2765	3272	3517	3611	3654
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	195	248	395	516	716	825	907	895	767	560	342	230	195	443	838	1354	2070	2895	3802	4697	5464	6024	6366	6596

(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