

Climatology of the United States

No. 20

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

Station: STONEVILLE EXP STN, MS

1971-2000

COOP ID: 228445

Climate Division: MS 4

NWS Call Sign:

Elevation: 127 Feet

Lat: 33° 27N

Lon: 90° 55W

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	50.3	32.8	41.6	82	1943	24	48.3	1989	-5	1936	31	31.2	1977	728	0	.0	.0	16.4	2.6	16.5	.0
Feb	56.1	36.6	46.4	83	1999	10	55.0	1976	-5	1951	2	35.5	1978	523	0	.0	.0	19.5	1.1	10.2	.0
Mar	65.2	44.4	54.8	90	1995	24	59.8	1973	13	1943	3	50.2	1978	326	9	.0	@	28.1	.1	2.8	.0
Apr	74.7	52.7	63.7	93	1994	28	70.6	1981	29+	1950	15	57.4	1983	119	79	.0	.3	29.8	.0	.2	.0
May	83.1	62.1	72.6	100	1934	31	77.4	1996	40	1961	28	67.1	1976	16	251	.0	4.5	31.0	.0	.0	.0
Jun	90.1	69.5	79.8	105	1936	20	82.4	1971	47+	1930	10	75.9	1974	0	444	.1	16.1	30.0	.0	.0	.0
Jul	92.5	72.4	82.5	109+	1930	12	86.2	1993	52	1947	23	80.0	1984	0	541	1.2	22.4	31.0	.0	.0	.0
Aug	91.7	70.2	81.0	106	1935	8	85.2	2000	51	1931	14	76.0	1992	0	495	1.1	20.8	31.0	.0	.0	.0
Sep	86.4	63.4	74.9	104	2000	1	79.9	1998	36	1942	29	69.4	1974	7	304	.4	10.6	30.0	.0	.0	.0
Oct	76.8	51.7	64.3	95+	1931	11	69.9	1971	25	1952	30	58.4	1976	107	83	.0	1.2	30.9	.0	.2	.0
Nov	63.9	43.1	53.5	87+	1955	13	58.3	1985	15	1950	25	46.1	1976	354	8	.0	.0	26.7	.1	4.5	.0
Dec	53.8	35.9	44.9	83+	1949	11	54.3	1984	1+	1989	23	35.3	1989	626	1	.0	.0	19.7	1.5	12.3	.0
Ann	73.7	52.9	63.3	109+	Jul 1930	12	86.2	Jul 1993	-5+	Feb 1951	2	31.2	Jan 1977	2806	2215	2.8	75.9	324.1	5.4	46.7	.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/normals/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1920-2001

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

060-A

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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	5.42	4.57	5.03	1951	3	13.82	1999	.74	1986	11.5	7.8	3.3	1.6	1.42	1.93	2.72	3.41	4.09	4.80	5.60	6.54	7.77	9.71	11.52
Feb	4.46	4.54	6.01	1991	19	10.31	1975	.91	1972	9.1	6.1	3.2	1.6	1.07	1.49	2.14	2.72	3.29	3.91	4.59	5.40	6.47	8.16	9.74
Mar	5.63	4.93	6.08	1955	21	13.91	1973	1.62	1978	10.0	7.2	3.8	1.9	1.91	2.44	3.22	3.88	4.51	5.16	5.88	6.71	7.78	9.43	10.96
Apr	5.44	4.75	7.17	1927	15	17.07	1991	.98	1981	8.9	5.9	3.5	1.9	1.16	1.66	2.46	3.18	3.91	4.69	5.56	6.61	8.00	10.21	12.30
May	5.25	5.30	6.14	1930	8	12.32	1978	.71	1988	10.3	6.9	3.6	1.5	1.35	1.84	2.61	3.28	3.94	4.64	5.42	6.34	7.54	9.44	11.22
Jun	4.02	3.67	4.12	1935	29	9.45	1989	.57	1988	8.9	6.0	2.8	1.2	1.18	1.56	2.13	2.63	3.11	3.62	4.17	4.83	5.68	7.00	8.24
Jul	3.86	3.30	4.92	1951	2	11.58	1994	.47	1983	9.3	5.6	2.6	1.2	.79	1.15	1.71	2.23	2.75	3.31	3.94	4.69	5.69	7.29	8.80
Aug	2.05	1.70	3.92	1943	11	4.49	1992	.00	2000	6.9	3.7	1.3	.6	.18	.41	.74	1.04	1.35	1.68	2.07	2.53	3.15	4.15	5.12
Sep	3.19	2.93	8.21	1958	21	7.00	1989	.72	1986	7.5	4.7	2.0	.9	.97	1.27	1.73	2.11	2.49	2.88	3.31	3.82	4.47	5.49	6.44
Oct	3.32	3.18	4.88	1929	31	10.99	1984	.27	1987	7.3	4.7	2.3	1.2	.39	.64	1.11	1.57	2.06	2.61	3.26	4.06	5.14	6.92	8.66
Nov	5.20	4.34	6.44	2001	29	12.98	1986	2.05	1999	9.7	6.6	3.6	1.9	1.63	2.12	2.86	3.48	4.09	4.72	5.41	6.22	7.27	8.89	10.40
Dec	5.45	4.99	6.25	1944	31	19.53	1982	.54	1980	10.5	7.4	3.6	1.7	1.37	1.88	2.68	3.38	4.08	4.81	5.63	6.59	7.86	9.87	11.74
Ann	53.29	52.70	8.21	Sep 1958	21	19.53	Dec 1982	.00	Aug 2000	109.9	72.6	35.6	17.2	38.20	41.13	44.88	47.72	50.24	52.68	55.19	57.97	61.33	66.21	70.42

+ 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: 1920-2001

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

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Lon: 90°55W

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	1.2	.0	#	0	3.8	1985	4	4.9	1977	4+	1988	10	1	1988	1.1	.4	.1	.0	.0	.8	.3	.0	.0
Feb	.4	.0	#	0	1.3	1978	1	2.5	1985	1	1979	18	#+	1984	.4	.2	.0	.0	.0	.1	.0	.0	.0
Mar	.1	.0	#	0	1.0	1971	3	1.0	1971	1	1971	3	#+	1987	.1	.1	.0	.0	.0	@	.0	.0	.0
Apr	#	.0	0	0	#	1971	7	#	1971	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	.1	1975	23	.1+	1976	#+	1976	29	#+	1976	.1	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.1	.0	#	0	1.5	1983	17	1.5+	1983	#	1973	20	#	1973	.1	.1	.0	.0	.0	.0	.0	.0	.0
Ann	1.8	.0	N/A	N/A	3.8	Jan 1985	4	4.9	Jan 1977	4+	Jan 1988	10	1	Jan 1988	1.8	.8	.1	.0	.0	.9	.3	.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	4/13	4/08	4/04	3/31	3/28	3/25	3/21	3/17	3/12
32	3/31	3/24	3/19	3/15	3/11	3/07	3/03	2/26	2/19
28	3/15	3/07	3/02	2/25	2/21	2/16	2/12	2/06	1/30
24	3/09	2/28	2/22	2/16	2/11	2/06	1/31	1/24	1/13
20	2/22	2/12	2/05	1/30	1/23	1/16	1/07	0/00	0/00
16	2/10	1/30	1/20	1/09	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	10/14	10/20	10/24	10/27	10/31	11/03	11/07	11/11	11/17
32	10/26	11/01	11/05	11/09	11/12	11/16	11/20	11/24	11/30
28	11/08	11/15	11/20	11/24	11/28	12/02	12/06	12/12	12/19
24	11/18	11/30	12/09	12/16	12/23	12/30	1/06	1/15	1/30
20	12/10	12/18	12/25	12/30	1/05	1/11	1/19	0/00	0/00
16	12/21	1/01	1/12	1/23	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	239	231	225	221	216	211	207	201	193
32	277	266	258	252	246	239	233	225	214
28	309	299	292	285	280	274	268	261	251
24	>365	349	329	318	309	301	293	284	272
20	>365	>365	>365	>365	352	337	326	316	303
16	>365	>365	>365	>365	>365	>365	>365	>365	341

* 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	728	523	326	119	16	0	0	0	7	107	354	626	2806
60	581	393	196	51	3	0	0	0	1	43	225	482	1975
57	494	317	135	26	1	0	0	0	0	21	162	398	1554
55	438	271	101	16	0	0	0	0	0	12	127	346	1311
50	309	172	40	3	0	0	0	0	0	2	60	233	819
32	39	10	0	0	0	0	0	0	0	0	0	21	70

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	335	411	707	950	1258	1434	1564	1518	1287	999	644	420	11527
55	20	28	94	276	545	744	851	805	597	298	81	32	4371
57	14	19	66	226	484	684	789	743	537	245	56	22	3885
60	8	10	35	161	393	594	696	650	447	174	29	13	3210
65	0	0	9	79	251	444	541	495	304	83	8	1	2215
70	0	0	1	29	134	295	386	341	178	30	0	0	1394

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	164	254	468	709	1003	1191	1310	1269	1050	755	420	224	164	418	886	1595	2598	3789	5099	6368	7418	8173	8593	8817
45	93	157	332	560	848	1041	1155	1114	900	603	290	129	93	250	582	1142	1990	3031	4186	5300	6200	6803	7093	7222
50	49	89	212	416	693	891	1000	959	750	450	185	71	49	138	350	766	1459	2350	3350	4309	5059	5509	5694	5765
55	20	36	119	280	538	741	845	804	600	310	104	36	20	56	175	455	993	1734	2579	3383	3983	4293	4397	4433
60	1	12	55	163	387	591	690	649	453	189	49	11	1	13	68	231	618	1209	1899	2548	3001	3190	3239	3250
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	96	146	272	441	679	827	910	870	709	489	249	124	96	242	514	955	1634	2461	3371	4241	4950	5439	5688	5812

(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