

Climatography of the United States

No. 20

1971-2000

Station: COLLINS, MS

COOP ID: 221852

Climate Division: MS 8

NWS Call Sign:

Elevation: 290 Feet

Lat: 31° 38N

Lon: 89° 33W

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	58.0	34.8	46.4	83+	1952	1	55.2	1974	3	1985	21	36.2	1977	585	0	.0	.0	25.1	.3	12.1	.0
Feb	62.4	37.4	49.9	85	1989	15	56.1	1990	11	1996	5	40.5	1978	422	0	.0	.0	25.0	.2	8.3	.0
Mar	69.6	44.7	57.2	90	1982	18	62.6	1997	16	1980	3	51.8	1978	261	18	.0	@	30.4	.0	3.2	.0
Apr	75.7	52.2	64.0	94	1987	21	69.1	1981	28+	1987	4	60.2	1983	88	58	.0	.2	30.0	.0	.4	.0
May	81.8	60.6	71.2	100+	1951	30	74.8	2000	36	1960	13	66.3	1976	12	205	.0	2.3	31.0	.0	.0	.0
Jun	87.9	67.4	77.7	102+	1963	14	82.9	1998	45	1956	3	74.0	1974	0	379	.1	13.8	30.0	.0	.0	.0
Jul	90.5	70.8	80.7	104+	2000	17	84.3	2000	54	1967	15	78.0	1972	0	485	.6	22.1	31.0	.0	.0	.0
Aug	90.3	70.1	80.2	109	2000	31	83.8	2000	50+	1956	22	77.8	1992	0	472	.5	22.1	31.0	.0	.0	.0
Sep	85.6	64.8	75.2	100+	1951	2	79.7	1980	37+	1967	29	71.2	1975	3	308	@	10.1	30.0	.0	.0	.0
Oct	76.8	52.6	64.7	96	1954	5	70.8	1984	22	1952	30	58.5	1976	101	92	.0	.9	30.9	.0	.2	.0
Nov	67.6	44.4	56.0	89	1964	13	63.4	1985	17+	1951	19	47.5	1976	290	20	.0	.0	29.2	.0	4.4	.0
Dec	60.4	37.7	49.1	85	1955	25	57.8	1984	2	1989	23	40.9	2000	503	9	.0	.0	26.7	.2	11.5	.0
Ann	75.6	53.1	64.4	109	Aug 2000	31	84.3	Jul 2000	2	Dec 1989	23	36.2	Jan 1977	2265	2046	1.2	71.5	350.3	.7	40.1	.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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1971-2000**

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

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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	6.21	5.24	4.96	1994	28	12.85	1990	1.42	1981	10.2	8.0	3.8	2.1	1.92	2.51	3.39	4.14	4.87	5.63	6.46	7.44	8.70	10.66	12.48
Feb	4.79	4.04	7.13	1961	22	12.46	1987	1.10	2000	7.8	6.1	3.4	1.7	1.30	1.75	2.44	3.05	3.64	4.26	4.95	5.77	6.83	8.50	10.05
Mar	6.50	5.73	6.10	1961	28	14.89	1980	1.86	1978	8.6	7.1	4.2	2.2	2.50	3.10	3.97	4.68	5.36	6.05	6.80	7.67	8.78	10.47	12.02
Apr	5.58	4.77	8.87	1983	7	16.31	1983	.79	1976	6.9	5.4	3.4	2.0	1.14	1.64	2.46	3.21	3.97	4.78	5.69	6.79	8.24	10.57	12.78
May	5.79	5.59	10.02	1990	13	13.65	1990	.81	1998	8.0	6.5	3.5	2.0	1.02	1.53	2.38	3.17	3.97	4.85	5.85	7.06	8.67	11.27	13.75
Jun	4.05	3.42	4.78	1940	30	12.89	1989	.85	1979	8.3	6.7	2.8	1.2	1.11	1.49	2.08	2.59	3.08	3.61	4.19	4.87	5.76	7.17	8.47
Jul	4.84	4.61	5.30	1949	25	10.06	1985	.38	1987	10.1	7.5	3.2	1.6	1.34	1.79	2.49	3.10	3.70	4.32	5.01	5.83	6.89	8.56	10.12
Aug	4.07	3.79	7.04	1992	27	12.79	1985	.74	1989	8.8	6.7	2.7	.9	1.08	1.47	2.06	2.57	3.08	3.62	4.21	4.92	5.83	7.27	8.62
Sep	4.14	3.69	5.86	2001	3	10.21	1988	.67	1990	7.2	5.4	2.5	1.4	.79	1.16	1.77	2.33	2.90	3.51	4.20	5.04	6.15	7.94	9.64
Oct	3.58	3.10	5.52	1934	10	11.53	1985	.00	1978	5.6	4.5	2.2	1.2	.15	.45	.97	1.49	2.06	2.70	3.45	4.40	5.70	7.85	9.97
Nov	4.85	4.30	5.27	1987	17	10.62	1986	1.23	1975	7.7	6.0	3.2	1.9	1.73	2.19	2.85	3.41	3.94	4.48	5.07	5.76	6.64	8.00	9.24
Dec	5.21	4.27	6.70	1941	23	12.00	1982	1.38	1984	8.1	6.7	3.4	1.7	1.40	1.89	2.64	3.30	3.95	4.63	5.39	6.28	7.45	9.28	11.00
Ann	59.61	60.78	10.02	May 1990	13	16.31	Apr 1983	.00	Oct 1978	97.3	76.6	38.3	19.9	45.07	47.95	51.61	54.35	56.78	59.11	61.50	64.14	67.31	71.88	75.80

+ 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

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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	.2	.0	#	0	3.3	1977	31	3.8	1977	3	1977	31	#+	1995	.2	@	@	.0	.0	.1	@	.0	.0
Feb	#	.0	#	0	#	1988	6	#+	1988	#+	1988	5	#+	1988	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.1	.0	#	0	3.5	1993	13	3.5	1993	4	1993	13	#+	1993	@	@	@	.0	.0	@	@	.0	.0
Apr	.0	.0	0	0	.5	1987	3	.5	1987	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	#	1988	13	#+	1988	#	1973	21	#	1973	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.3	.0	N/A	N/A	3.5	Mar 1993	13	3.8	Jan 1977	4	Mar 1993	13	#+	Jan 1995	.2	@	@	.0	.0	.1	@	.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	4/15	4/10	4/06	4/03	3/31	3/28	3/25	3/22	3/17
32	4/07	3/31	3/27	3/23	3/20	3/16	3/13	3/08	3/02
28	3/20	3/13	3/08	3/03	2/27	2/23	2/19	2/13	2/06
24	3/10	3/03	2/25	2/20	2/16	2/11	2/06	2/01	1/24
20	3/04	2/21	2/13	2/06	1/30	1/21	1/11	0/00	0/00
16	2/05	1/27	1/19	1/11	12/30	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	10/30	11/03	11/06	11/10	11/16
32	10/26	10/31	11/04	11/08	11/11	11/14	11/18	11/22	11/27
28	11/07	11/14	11/18	11/23	11/26	11/30	12/04	12/09	12/16
24	11/21	12/01	12/08	12/14	12/20	12/26	1/01	1/08	1/18
20	11/28	12/10	12/20	12/28	1/05	1/15	1/27	0/00	0/00
16	12/21	1/01	1/10	1/19	2/01	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	234	227	221	217	212	208	203	198	191
32	261	252	246	241	235	230	225	218	210
28	302	292	284	278	272	266	259	252	241
24	337	325	317	310	304	298	291	284	273
20	>365	>365	>365	>365	337	322	312	303	293
16	>365	>365	>365	>365	>365	>365	>365	358	331

* 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	585	422	261	88	12	0	0	0	3	101	290	503	2265
60	443	291	148	28	1	0	0	0	0	41	178	363	1493
57	364	219	96	10	0	0	0	0	0	20	126	287	1122
55	315	176	68	5	0	0	0	0	0	12	96	243	915
50	213	93	23	0	0	0	0	0	0	2	41	152	524
32	19	1	0	0	0	0	0	0	0	0	0	7	27

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	466	503	780	959	1216	1369	1508	1495	1295	1014	720	535	11860
55	49	34	135	274	503	679	795	782	605	313	126	58	4353
57	36	21	101	220	441	619	733	720	545	259	96	41	3832
60	22	10	59	147	349	529	640	627	455	187	58	23	3106
65	0	0	18	58	205	379	485	472	308	92	20	9	2046
70	0	0	3	13	93	232	330	317	174	33	5	0	1200

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	285	365	592	750	995	1152	1275	1257	1079	794	509	347	285	650	1242	1992	2987	4139	5414	6671	7750	8544	9053	9400
45	173	249	443	600	840	1002	1120	1102	929	639	370	227	173	422	865	1465	2305	3307	4427	5529	6458	7097	7467	7694
50	99	150	300	452	685	852	965	947	779	485	245	137	99	249	549	1001	1686	2538	3503	4450	5229	5714	5959	6096
55	48	80	185	305	530	702	810	792	629	337	147	76	48	128	313	618	1148	1850	2660	3452	4081	4418	4565	4641
60	18	35	93	182	376	552	655	637	479	204	76	35	18	53	146	328	704	1256	1911	2548	3027	3231	3307	3342
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	177	237	382	488	678	802	887	870	744	524	325	221	177	414	796	1284	1962	2764	3651	4521	5265	5789	6114	6335

(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