

Climatography of the United States

No. 20

1971-2000

Station: FOREST 3 S, MS

COOP ID: 223107

Climate Division: MS 5

NWS Call Sign:

Elevation: 480 Feet

Lat: 32° 19N

Lon: 89° 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	56.8	33.9	45.4	88	1937	22	54.1	1974	-5	1940	27	35.1	1977	618	0	.0	.0	23.2	.6	15.3	.1
Feb	62.5	36.9	49.7	85	1977	25	55.5	1990	1+	1951	2	40.5	1978	428	0	.0	.0	24.5	.2	11.3	.0
Mar	70.2	43.6	56.9	90+	1935	28	62.7	1974	7	1980	2	52.0	1996	269	18	.0	.0	30.2	.0	5.6	.0
Apr	76.5	49.9	63.2	93	1987	21	68.7	1981	26+	1940	13	59.3	1983	106	51	.0	.2	30.0	.0	1.0	.0
May	82.8	58.6	70.7	98	1934	13	73.6	1996	30	1971	4	66.2	1976	14	190	.0	2.2	31.0	.0	@	.0
Jun	88.8	65.4	77.1	105	1936	20	80.2	1977	43	1998	7	74.1	1974	0	363	.2	15.3	30.0	.0	.0	.0
Jul	91.1	69.2	80.2	107	1930	12	83.3	1980	52+	1947	23	78.1	1994	0	469	.5	22.9	31.0	.0	.0	.0
Aug	91.0	68.1	79.6	104+	1943	26	81.7	1999	48	1952	29	76.2	1992	0	451	.5	22.0	31.0	.0	.0	.0
Sep	86.7	62.8	74.8	102+	1980	10	79.9	1980	36	1967	29	70.7	1975	5	296	.3	10.6	30.0	.0	.0	.0
Oct	77.7	50.5	64.1	96	1954	6	70.4	1984	20	1952	22	58.6	1987	109	81	.0	.9	31.0	.0	.8	.0
Nov	67.5	42.4	55.0	91	1935	4	61.9	1985	13+	1951	19	46.5	1976	319	18	.0	.0	28.9	.0	7.2	.0
Dec	59.4	36.6	48.0	84+	1933	18	56.9	1984	0	1989	23	39.8	1989	534	6	.0	.0	25.5	.2	13.2	@
Ann	75.9	51.5	63.7	107	Jul 1930	12	83.3	Jul 1980	-5	Jan 1940	27	35.1	Jan 1977	2402	1943	1.5	74.1	346.3	1.0	54.4	.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/normals/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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Climatology 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: FOREST 3 S, MS

COOP ID: 223107

Climate Division: MS 5

NWS Call Sign:

Elevation: 480 Feet

Lat: 32°19N

Lon: 89°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	6.18	6.13	7.33	1950	6	13.29	1979	.79	1986	10.7	8.4	4.1	2.0	1.75	2.33	3.22	3.99	4.75	5.54	6.41	7.44	8.77	10.87	12.82
Feb	5.56	5.48	5.18	1950	14	12.54	1987	.94	2000	7.9	6.7	3.7	2.0	1.58	2.11	2.91	3.60	4.27	4.98	5.76	6.68	7.88	9.75	11.50
Mar	6.54	5.50	5.05	1991	29	14.89	1980	3.09	1985	9.5	7.6	4.4	2.4	2.75	3.34	4.18	4.86	5.50	6.15	6.86	7.66	8.68	10.24	11.65
Apr	5.87	5.28	5.72	1974	13	15.91	1991	.46	1976	7.2	5.9	3.8	2.3	1.15	1.68	2.54	3.33	4.13	4.99	5.97	7.15	8.70	11.20	13.57
May	4.83	4.84	4.47	1970	2	11.41	1983	.97	1988	8.1	6.7	3.6	1.7	.93	1.36	2.07	2.73	3.39	4.10	4.91	5.88	7.18	9.25	11.22
Jun	4.38	4.20	7.75	1993	25	12.22	1993	.24	1988	8.0	6.3	3.2	1.2	.95	1.35	1.99	2.57	3.16	3.78	4.48	5.32	6.42	8.19	9.86
Jul	5.59	5.48	3.43	1997	30	12.58	1979	.32	1983	10.1	8.2	4.0	1.7	1.33	1.85	2.66	3.39	4.12	4.89	5.74	6.77	8.11	10.24	12.24
Aug	4.27	3.70	10.04	1940	9	10.23	1992	.44	1989	7.1	5.9	3.0	1.5	1.05	1.45	2.07	2.62	3.17	3.75	4.40	5.17	6.18	7.78	9.27
Sep	3.74	3.61	4.35	1995	22	8.76	1979	.24	1982	6.7	5.4	2.4	1.2	.69	1.02	1.57	2.08	2.60	3.16	3.79	4.56	5.58	7.22	8.78
Oct	3.74	3.26	5.82	1975	17	10.19	1985	.13	1987	5.9	4.5	2.3	1.2	.50	.80	1.33	1.85	2.40	3.01	3.71	4.57	5.74	7.65	9.49
Nov	5.42	5.19	5.65	1980	15	11.29	1986	1.24	1985	7.7	6.4	3.4	1.9	1.76	2.27	3.03	3.68	4.30	4.94	5.64	6.47	7.53	9.17	10.70
Dec	5.82	5.29	5.85	1968	31	12.22	1982	1.11	1980	8.8	7.3	3.6	1.9	2.07	2.62	3.41	4.08	4.71	5.37	6.08	6.90	7.96	9.59	11.09
Ann	61.94	62.71	10.04	Aug 1940	9	15.91	Apr 1991	.13	Oct 1987	97.7	79.3	41.5	21.0	45.28	48.53	52.69	55.83	58.61	61.30	64.06	67.11	70.79	76.12	80.72

+ 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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Station: FOREST 3 S, MS

COOP ID: 223107

Climate Division: MS 5

NWS Call Sign:

Elevation: 480 Feet

Lat: 32° 19N

Lon: 89° 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	.9	.0	#	0	4.0	1982	14	5.8	1977	4	1982	14	#+	1982	.3	.3	.1	.0	.0	.1	@	.0	.0
Feb	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.3	1978	4	.3	1978	0	0	0	0	0	.1	.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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.9	.0	N/A	N/A	4.0	Jan 1982	14	5.8	Jan 1977	4	Jan 1982	14	#+	Jan 1982	.4	.3	.1	.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

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

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Climate Division: MS 5

NWS Call Sign:

Elevation: 480 Feet

Lat: 32° 19N

Lon: 89° 29W

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	4/24	4/20	4/17	4/14	4/12	4/09	4/07	4/04	3/31
32	4/15	4/10	4/06	4/03	3/31	3/27	3/24	3/20	3/15
28	3/31	3/25	3/21	3/17	3/14	3/10	3/06	3/02	2/24
24	3/15	3/08	3/03	2/26	2/22	2/18	2/14	2/09	2/02
20	3/10	3/01	2/22	2/16	2/11	2/06	1/30	1/23	1/08
16	2/28	2/18	2/10	2/03	1/27	1/18	1/01	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	10/05	10/09	10/13	10/15	10/18	10/20	10/23	10/26	10/30
32	10/18	10/23	10/27	10/30	11/01	11/04	11/07	11/11	11/15
28	11/01	11/06	11/10	11/13	11/16	11/19	11/23	11/27	12/02
24	11/10	11/17	11/22	11/27	12/01	12/05	12/09	12/14	12/21
20	11/21	12/01	12/09	12/15	12/22	12/28	1/04	1/14	1/31
16	12/02	12/15	12/24	1/02	1/11	1/22	2/11	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	204	198	194	191	188	185	182	178	172
32	235	228	223	219	215	211	207	202	195
28	269	261	256	251	247	243	238	233	226
24	305	297	291	285	281	276	271	265	256
20	>365	345	326	316	308	301	293	284	273
16	>365	>365	>365	>365	>365	348	328	315	301

* 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	618	428	269	106	14	0	0	0	5	109	319	534	2402
60	474	297	154	38	2	0	0	0	0	46	202	390	1603
57	394	224	102	16	0	0	0	0	0	23	147	311	1217
55	344	181	73	8	0	0	0	0	0	14	115	263	998
50	237	96	25	1	0	0	0	0	0	3	53	165	580
32	25	1	0	0	0	0	0	0	0	0	0	8	34

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	439	497	772	936	1199	1353	1492	1474	1281	995	689	503	11630
55	44	33	132	254	486	663	779	761	591	296	114	46	4199
57	32	20	99	202	424	603	717	699	531	243	85	31	3686
60	20	9	58	133	333	513	624	606	441	173	51	17	2978
65	0	0	18	51	190	363	469	451	296	81	18	6	1943
70	0	0	4	12	82	216	314	296	166	28	4	0	1122

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	235	321	536	705	959	1122	1251	1237	1050	758	467	294	235	556	1092	1797	2756	3878	5129	6366	7416	8174	8641	8935
45	141	206	394	555	804	972	1096	1082	900	604	331	183	141	347	741	1296	2100	3072	4168	5250	6150	6754	7085	7268
50	76	122	259	407	649	822	941	927	750	450	214	110	76	198	457	864	1513	2335	3276	4203	4953	5403	5617	5727
55	35	58	150	268	494	672	786	772	600	305	123	58	35	93	243	511	1005	1677	2463	3235	3835	4140	4263	4321
60	10	23	70	151	343	522	631	617	450	182	58	28	10	33	103	254	597	1119	1750	2367	2817	2999	3057	3085
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	158	217	353	465	648	764	856	835	711	507	309	193	158	375	728	1193	1841	2605	3461	4296	5007	5514	5823	6016

(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