U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

Climatography 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: MERIDIAN KEY AP, MS **COOP ID: 225776**

Climate Division: MS 9 **NWS Call Sign: MEI** **Elevation: 294 Feet** **Lat: 32˚20N** **Lon: 88˚45W**

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	57.5	34.7	46.1	83+	1949	10	57.8	1974	0	1962	12	35.3	1977	598	4	.0	.0	22.5	.3	15.1	.0
Feb	62.6	37.7	50.2	85	1982	23	56.6	1990	8+	1951	2	39.8	1978	434	6	.0	.0	24.1	.3	10.0	.0
Mar	70.3	44.3	57.3	90	1974	31	64.9	1974	15	1980	3	50.7	1978	274	26	.0	@	30.0	.0	4.1	.0
Apr	77.1	50.4	63.8	95	1987	21	70.0	1981	28	1987	4	59.7+	1997	111	70	.0	.3	30.0	.0	.5	.0
May	83.9	59.5	71.7	99+	1951	30	76.3	1975	38+	1960	13	65.6	1976	14	213	.0	4.2	31.0	.0	.0	.0
Jun	90.1	66.8	78.5	104+	1988	27	82.6	1977	42	1984	1	74.4	1976	0	400	.4	16.4	30.0	.0	.0	.0
Jul	92.9	70.5	81.7	107	1980	14	84.6	1981	55	1967	15	78.0	1984	0	509	1.5	24.4	31.0	.0	.0	.0
Aug	92.9	69.8	81.4	106	2000	29	83.6	1980	53	1956	22	78.5	1996	0	495	1.5	24.2	31.0	.0	.0	.0
Sep	88.0	64.2	76.1	105	1990	4	81.3	1972	34+	1967	29	72.3	1983	6	331	.6	12.9	30.0	.0	.0	.0
Oct	78.3	51.3	64.8	97+	1954	4	71.5	1984	24	1952	30	58.3	1987	106	91	.0	1.0	30.9	.0	.4	.0
Nov	68.5	42.8	55.7	86+	1961	1	62.3	1973	16+	1950	25	47.2	1976	303	20	.0	.0	28.9	.0	6.1	.0
Dec	60.5	37.2	48.9	84	1998	7	58.2	1971	2	1989	23	39.1	2000	506	8	.0	.0	25.6	.2	12.8	.0
Ann	76.9	52.4	64.7	107	Jul 1980	14	84.6	Jul 1981	0	Jan 1962	12	35.3	Jan 1977	2352	2173	4.0	83.4	345.0	.8	49.0	.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

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

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

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	5.92	5.13	5.25	1994	27	13.19	1998	1.21	1986
Feb	5.35	4.82	7.48	1990	15	15.95	1990	1.46	2000
Mar	6.93	6.15	6.48	1979	3	16.47	1976	2.98	1978
Apr	5.62	5.08	5.63	1974	12	11.78	1991	.91	1987
May	4.87	5.09	3.41	1983	19	9.79	1980	1.10	1998
Jun	3.99	3.54	2.79	1998	5	8.91	1989	.87	1988
Jul	5.45	4.73	6.95	1959	2	11.65	1971	1.06	2000
Aug	3.34	2.93	4.75	1991	10	10.28	1992	.72	1989
Sep	3.64	3.05	4.50	1977	6	9.32	1988	.10	1982
Oct	3.28	2.76	5.34	1984	21	9.43	1984	.01	1987
Nov	4.95	4.86	4.93	2001	27	10.68	1992	.65	1999
Dec	5.31	4.59	7.99	1973	25	14.79	1973	1.10	1980
Ann	58.65	57.40	7.99	Dec 1973	25	16.47	Mar 1976	.01	Oct 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.1	8.2	3.5	1.7
Feb	9.0	6.5	3.6	1.8
Mar	10.1	7.9	4.3	2.4
Apr	8.9	6.4	3.3	2.1
May	9.1	6.5	3.3	1.8
Jun	9.3	6.6	2.9	1.0
Jul	11.3	8.2	3.7	1.6
Aug	8.6	5.4	2.2	.9
Sep	7.8	5.3	1.9	1.0
Oct	6.2	4.1	1.9	1.1
Nov	8.4	6.9	3.5	1.8
Dec	10.0	7.1	3.3	1.7
Ann	109.8	79.1	37.4	18.9

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	1.70	2.26	3.11	3.84	4.56	5.31	6.14	7.12	8.39	10.38	12.23
Feb	1.65	2.16	2.91	3.56	4.19	4.85	5.56	6.40	7.49	9.19	10.76
Mar	2.37	3.02	3.98	4.78	5.56	6.36	7.23	8.24	9.55	11.57	13.42
Apr	1.20	1.72	2.54	3.29	4.04	4.84	5.75	6.83	8.26	10.54	12.69
May	1.52	1.99	2.67	3.26	3.83	4.42	5.07	5.83	6.81	8.34	9.76
Jun	1.31	1.69	2.25	2.72	3.17	3.64	4.16	4.76	5.54	6.74	7.85
Jul	1.23	1.73	2.53	3.25	3.97	4.73	5.59	6.61	7.96	10.10	12.12
Aug	.81	1.13	1.61	2.05	2.48	2.93	3.44	4.04	4.83	6.09	7.26
Sep	.45	.74	1.25	1.76	2.30	2.90	3.59	4.45	5.61	7.53	9.38
Oct	.19	.37	.77	1.21	1.72	2.31	3.03	3.96	5.25	7.46	9.66
Nov	1.39	1.86	2.57	3.19	3.80	4.43	5.13	5.95	7.02	8.70	10.27
Dec	1.81	2.31	3.04	3.66	4.26	4.87	5.54	6.32	7.32	8.88	10.31
Ann	41.34	44.67	48.96	52.21	55.11	57.91	60.80	64.00	67.89	73.53	78.42

\+ 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: 1948-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	.4	.0	#	0	2.0	1977	18	5.0	1977	2+	1982	14	#	1987	.4	.3	.0	.0	.0	.3	.0	.0	.0
Feb	#	#	0	0	#	1995	9	#+	1995	#+	1989	23	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.3	.0	#	0	4.7	1993	12	5.7	1993	6	1993	13	#	1993	.1	.1	@	.0	.0	.1	@	@	.0
Apr	.1	.0	#	0	1.9	1987	3	2.7	1987	1	1987	3	#	1987	.1	.0	.0	.0	.0	@	.0	.0	.0
May	.0	.0	#	0	.0	0	0	.0	0	0	0	0	#	1993	.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	28	#+	1976	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.8	1993	22	.8	1993	#+	1989	18	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.8	#	N/A	N/A	4.7	Mar 1993	12	5.7	Mar 1993	6	Mar 1993	13	#+	May 1993	.7	.4	@	.0	.0	.4	.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	4/20	4/15	4/12	4/09	4/06	4/04	4/01	3/29	3/24
32	4/11	4/05	3/31	3/27	3/23	3/19	3/15	3/11	3/04
28	3/22	3/14	3/09	3/05	2/28	2/24	2/20	2/14	2/07
24	3/12	3/04	2/26	2/21	2/16	2/11	2/06	1/31	1/22
20	3/06	2/24	2/17	2/10	2/04	1/28	1/20	1/04	0/00
16	2/14	2/05	1/29	1/22	1/14	12/31	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	10/10	10/15	10/19	10/22	10/25	10/29	11/01	11/05	11/10
32	10/23	10/28	11/01	11/04	11/07	11/10	11/14	11/17	11/23
28	11/08	11/14	11/19	11/23	11/27	12/01	12/05	12/10	12/16
24	11/14	11/25	12/02	12/09	12/15	12/21	12/28	1/04	1/15
20	12/01	12/12	12/21	12/29	1/05	1/13	1/23	2/11	0/00
16	12/11	12/25	1/05	1/16	1/29	2/20	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	219	213	209	205	201	198	194	189	183
32	253	245	239	233	228	223	218	212	203
28	300	290	283	277	271	265	259	252	242
24	334	320	312	305	299	292	286	278	267
20	>365	>365	>365	>365	334	322	311	301	288
16	>365	>365	>365	>365	>365	>365	>365	338	322

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	598	434	274	111	14	0	0	0	6	106	303	506	2352
60	454	287	161	40	3	0	0	0	0	49	187	376	1557
57	375	215	111	19	0	0	0	0	0	26	134	303	1183
55	327	172	83	10	0	0	0	0	0	16	104	259	971
50	224	90	32	2	0	0	0	0	0	4	46	169	567
32	23	0	0	0	0	0	0	0	0	0	0	12	35

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	442	506	779	946	1225	1389	1534	1521	1315	1009	704	523	11893
55	35	56	148	271	512	699	821	808	625	306	120	57	4458
57	25	40	114	221	450	639	759	746	565	254	92	43	3948
60	14	22	70	154	359	549	666	653	476	183	57	26	3229
65	4	6	26	70	213	400	509	495	331	91	20	8	2173
70	0	1	7	20	100	251	356	343	198	31	4	2	1313

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	244	323	543	715	989	1158	1295	1280	1083	771	473	308	244	567	1110	1825	2814	3972	5267	6547	7630	8401	8874	9182
45	147	211	397	565	834	1008	1140	1125	933	616	336	197	147	358	755	1320	2154	3162	4302	5427	6360	6976	7312	7509
50	79	122	260	415	679	858	985	970	783	462	216	115	79	201	461	876	1555	2413	3398	4368	5151	5613	5829	5944
55	41	63	154	280	524	708	830	815	633	315	126	63	41	104	258	538	1062	1770	2600	3415	4048	4363	4489	4552
60	16	26	74	160	369	558	675	660	484	189	59	30	16	42	116	276	645	1203	1878	2538	3022	3211	3270	3300
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	162	214	352	466	668	791	883	870	735	508	312	200	162	376	728	1194	1862	2653	3536	4406	5141	5649	5961	6161

(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:
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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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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 are 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.

a. Temperature/ Precipitation Tables
   1. 1971-2000 Monthly Normals
   2. Cooperative Summary of the Day
   3. National Weather Service station records
   4. 1971-2000 serially complete daily data

b. Degree Day Table
   1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
   2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data

c. Snow Tables
   1. Snow Climatology
   2. Cooperative Summary of the Day

d. Freeze Data Table
   1971-2000 serially complete daily data

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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