Climatography
of the United States
No. 20
1971-2000

Station: PICAYUNE, MS

COOP ID: 226921

Climate Division: MS10   **NWS Call Sign:**   **Elevation: 59 Feet   Lat: 30°31N   Lon: 89°42W**

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	61.0	38.2	49.6	83	1949	11	59.2	1974	6	1962	11	41.6	1977	493	3	.0	.0	26.6	.0	10.8	.0
Feb	64.8	41.0	52.9	85+	1948	28	59.2	1990	11	1996	5	45.2	1978	344	6	.0	.0	26.0	.2	6.5	.0
Mar	71.3	48.2	59.8	89	1967	15	64.3	1997	20	1980	3	54.4	1996	195	33	.0	.0	30.5	.0	1.8	.0
Apr	77.3	54.1	65.7	92	1987	22	71.3	1999	29	1987	5	61.6	1992	66	88	.0	.2	30.0	.0	.2	.0
May	84.0	62.7	73.4	99	1951	31	76.6	2000	38	1960	13	69.6	1988	4	263	.0	3.6	31.0	.0	.0	.0
Jun	89.5	68.9	79.2	102	1969	29	82.8	1977	47+	1956	3	76.5	1974	0	426	@	16.5	30.0	.0	.0	.0
Jul	91.3	71.6	81.5	103+	1969	12	83.8	1998	57	1967	15	78.3	1991	0	510	.4	23.0	31.0	.0	.0	.0
Aug	91.1	71.2	81.2	102	2000	31	83.9	1999	55+	1956	23	77.3	1991	0	500	.3	22.5	31.0	.0	.0	.0
Sep	87.4	66.3	76.9	99+	1980	10	80.2	1980	33	1967	28	72.4	1991	1	356	.0	12.5	30.0	.0	.0	.0
Oct	79.8	54.8	67.3	93+	1951	3	73.4	1984	26	1952	30	61.2	1987	62	133	.0	1.4	31.0	.0	.2	.0
Nov	70.6	46.6	58.6	88+	1956	6	66.7	1985	19	1950	25	50.6	1991	233	41	.0	.0	29.6	.0	2.8	.0
Dec	63.7	40.2	52.0	87+	1984	29	61.6	1984	8	1989	23	43.1	1989	421	18	.0	.0	28.3	.1	9.2	.0
Ann	77.7	55.3	66.5	103+	Jul 1969	12	83.9	Aug 1999	6	Jan 1962	11	41.6	Jan 1977	1819	2377	.7	79.7	355.0	.3	31.5	.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: 1948-2001

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

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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	6.10	5.23	6.50	1998	7	18.54	1998	.79	1981	10.5	8.0	4.1	1.7	1.37	1.94	2.83	3.64	4.44	5.30	6.26	7.40	8.91	11.31	13.58
Feb	5.35	5.06	4.82	1981	10	11.63	1988	.00	2000	7.8	6.5	3.5	2.1	.63	1.29	2.19	2.96	3.73	4.55	5.48	6.60	8.08	10.44	12.68
Mar	6.48	5.64	8.10	1980	17	17.28	1980	2.13	2000	8.8	7.1	4.2	2.4	2.25	2.87	3.75	4.50	5.22	5.96	6.76	7.70	8.90	10.76	12.47
Apr	5.19	4.05	7.00	1996	15	12.58	1980	.00	1999	6.1	4.8	2.9	1.6	.26	.72	1.51	2.27	3.08	3.99	5.06	6.39	8.20	11.19	14.11
May	5.13	4.58	7.57	1958	18	13.40	1991	.00	1998	7.1	5.8	3.1	1.5	.58	1.21	2.07	2.81	3.56	4.35	5.25	6.33	7.77	10.06	12.24
Jun	4.85	4.05	5.95	2001	10	10.97	1989	1.09	1972	9.1	7.0	3.5	1.6	1.44	1.91	2.59	3.19	3.77	4.37	5.03	5.81	6.82	8.40	9.87
Jul	6.59	6.13	4.50	1994	23	13.70	1994	1.75	1999	11.7	9.5	4.5	2.1	2.22	2.85	3.76	4.53	5.28	6.04	6.88	7.85	9.10	11.04	12.83
Aug	5.34	4.72	9.36	1969	18	11.00	1974	1.15	1972	10.7	8.2	3.8	1.7	1.37	1.87	2.65	3.34	4.01	4.72	5.51	6.45	7.68	9.61	11.42
Sep	5.21	4.34	6.05	1957	18	11.52	1988	.60	1997	8.1	6.9	3.6	1.7	1.15	1.63	2.40	3.09	3.78	4.51	5.33	6.32	7.62	9.69	11.65
Oct	3.21	2.80	10.40	1991	28	11.84	1991	.00	1978	5.5	4.1	2.0	.8	.09	.31	.74	1.20	1.71	2.30	3.01	3.92	5.17	7.29	9.40
Nov	4.91	4.59	6.00	2000	19	16.09	2000	.23	1999	7.9	6.3	3.3	1.7	.56	.94	1.63	2.31	3.04	3.86	4.81	5.99	7.60	10.26	12.84
Dec	5.12	4.63	6.80	1996	30	10.60	1972	1.00	1980	9.2	7.2	3.8	1.5	1.71	2.19	2.90	3.51	4.09	4.68	5.34	6.10	7.08	8.60	10.00
Ann	63.48	66.27	10.40	Oct 1991	28	18.54	Jan 1998	.00+	Feb 2000	102.5	81.4	42.3	20.4	41.35	45.48	50.86	55.00	58.71	62.33	66.09	70.28	75.40	82.89	89.44

+ 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

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Climate Division: MS10   **NWS Call Sign:**   **Elevation: 59 Feet**   **Lat: 30°31N**   **Lon: 89°42W**

	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	.0	0	0	1.5	1973	12	1.5	1973	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Feb	.2	.0	0	0	3.5	1973	9	3.5	1973	0	0	0	0	0	@	@	@	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	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	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	.3	.0	N/A	N/A	3.5	Feb 1973	9	3.5	Feb 1973	0	0	0	0	0	@	@	@	.0	.0	.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	4/11	4/05	4/01	3/28	3/24	3/21	3/17	3/13	3/06
32	3/28	3/22	3/17	3/13	3/09	3/05	3/01	2/24	2/17
28	3/11	3/02	2/23	2/18	2/13	2/08	2/02	1/27	1/18
24	3/03	2/21	2/14	2/08	2/02	1/27	1/19	1/07	0/00
20	2/13	2/03	1/27	1/19	1/12	12/31	0/00	0/00	0/00
16	1/16	1/02	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	10/17	10/23	10/27	10/31	11/04	11/08	11/12	11/16	11/22
32	10/29	11/06	11/11	11/16	11/21	11/25	11/30	12/06	12/13
28	11/09	11/19	11/26	12/02	12/08	12/14	12/20	12/27	1/06
24	11/27	12/07	12/15	12/22	12/29	1/05	1/14	1/27	0/00
20	12/19	12/28	1/04	1/10	1/17	1/26	0/00	0/00	0/00
16	1/05	1/20	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	251	242	235	229	224	219	213	206	197
32	284	274	267	262	256	251	245	238	228
28	341	321	311	302	295	288	280	271	259
24	>365	>365	>365	343	330	320	310	300	287
20	>365	>365	>365	>365	>365	>365	352	334	318
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

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U.S. Department of Commerce

National Oceanic & Atmospheric Administration

National Environmental Satellite, Data,

and Information Service

National Climatic Data Center

Federal Building

151 Patton Avenue

Asheville, North Carolina 28801

www.ncdc.noaa.gov

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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	493	344	195	66	4	0	0	0	1	62	233	421	1819
60	358	220	100	18	0	0	0	0	0	21	140	292	1149
57	288	158	58	7	0	0	0	0	0	9	95	228	843
55	246	123	38	3	0	0	0	0	0	5	71	191	677
50	159	57	10	0	0	0	0	0	0	1	29	112	368
32	11	0	0	0	0	0	0	0	0	0	0	3	14

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	556	585	860	1012	1282	1416	1533	1523	1345	1094	798	622	12626
55	79	65	185	325	569	726	820	810	655	386	179	97	4896
57	58	43	144	268	507	666	758	748	595	328	143	72	4330
60	36	21	92	190	414	576	665	655	505	246	98	44	3542
65	3	6	33	88	263	426	510	500	356	133	41	18	2377
70	2	0	8	26	131	277	355	345	212	54	14	7	1431

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	347	410	638	786	1044	1184	1290	1277	1116	854	583	414	347	757	1395	2181	3225	4409	5699	6976	8092	8946	9529	9943
45	229	285	489	636	889	1034	1135	1122	966	699	437	284	229	514	1003	1639	2528	3562	4697	5819	6785	7484	7921	8205
50	139	176	345	486	734	884	980	967	816	546	302	179	139	315	660	1146	1880	2764	3744	4711	5527	6073	6375	6554
55	74	96	217	341	579	734	825	812	666	395	193	100	74	170	387	728	1307	2041	2866	3678	4344	4739	4932	5032
60	34	46	114	210	424	584	670	657	516	256	105	53	34	80	194	404	828	1412	2082	2739	3255	3511	3616	3669
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	222	259	401	514	716	820	892	882	771	572	376	270	222	481	882	1396	2112	2932	3824	4706	5477	6049	6425	6695

(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
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