

Climatography of the United States

No. 20

1971-2000

Station: LAUREL, MS

COOP ID: 224939

Climate Division: MS 9

NWS Call Sign:

Elevation: 225 Feet

Lat: 31°41N

Lon: 89°07W

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	57.2	35.7	46.5	83+	1949	11	57.0	1974	3	1985	21	36.4	1977	585	0	.0	.0	23.4	.4	14.0	.0
Feb	61.5	38.5	50.0	85+	1957	5	55.4	1990	10+	1951	2	40.0	1978	421	1	.0	.0	24.1	.3	9.5	.0
Mar	69.2	45.6	57.4	88+	1974	30	63.0	1997	17	1980	3	52.2	1996	256	20	.0	.0	30.0	.0	3.0	.0
Apr	75.9	52.0	64.0	94+	1984	28	70.4	1981	31	1987	1	60.2	1993	95	62	.0	.2	30.0	.0	.1	.0
May	82.6	60.6	71.6	99	1951	31	75.3	2000	41	1960	13	66.9	1976	12	216	.0	3.1	31.0	.0	.0	.0
Jun	88.8	67.7	78.3	105	1963	15	82.1	1998	45	1984	1	75.4	1974	0	397	.3	15.3	30.0	.0	.0	.0
Jul	91.2	71.1	81.2	104+	1980	15	83.6	2000	55	1984	22	78.5	1994	0	502	.8	23.0	31.0	.0	.0	.0
Aug	90.8	70.4	80.6	105	1951	31	83.8	1999	57+	1967	12	77.2	1992	0	483	.6	22.0	31.0	.0	.0	.0
Sep	86.2	64.9	75.6	105	1951	1	80.5	1980	40	1983	22	70.2	1981	4	321	.1	10.9	30.0	.0	.0	.0
Oct	77.3	52.0	64.7	96+	1954	5	71.8	1984	23	1952	30	59.1	1987	102	92	.0	.7	31.0	.0	.2	.0
Nov	67.9	43.7	55.8	89	1950	1	63.4	1985	19	1950	25	47.8	1976	297	21	.0	.0	29.1	.0	5.1	.0
Dec	59.7	37.5	48.6	83+	1982	3	57.4	1984	3	1989	24	39.6	1989	518	9	.0	.0	25.7	.2	12.6	.0
Ann	75.7	53.3	64.5	105+	Jun 1963	15	83.8	Aug 1999	3+	Dec 1989	24	36.4	Jan 1977	2290	2124	1.8	75.2	346.3	.9	44.5	.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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1891-2001

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

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**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: LAUREL, MS

COOP ID: 224939

Climate Division: MS 9

NWS Call Sign:

Elevation: 225 Feet

Lat: 31°41N

Lon: 89°07W

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	6.32	5.69	4.35	1998	6	13.01	1998	1.61	1981	11.5	8.4	4.1	1.8	2.18	2.78	3.65	4.38	5.09	5.81	6.60	7.52	8.70	10.53	12.21	
Feb	4.59	4.41	4.96	1949	16	10.14	1987	1.41	2000	8.5	6.1	3.3	1.6	1.36	1.80	2.45	3.01	3.56	4.13	4.76	5.50	6.46	7.96	9.35	
Mar	6.10	5.62	5.45	1961	31	13.05	1973	1.76	1997	9.7	7.2	3.9	2.0	2.28	2.85	3.67	4.35	5.00	5.66	6.38	7.22	8.28	9.91	11.41	
Apr	5.19	4.77	6.00	1977	22	11.34	1991	.74	1976	7.9	5.5	3.4	1.8	1.49	1.99	2.73	3.38	4.01	4.66	5.39	6.24	7.35	9.09	10.71	
May	5.23	5.49	6.18	1960	7	11.38	1991	.36	1998	9.1	6.4	3.2	1.6	.71	1.14	1.89	2.61	3.38	4.22	5.19	6.39	8.01	10.65	13.21	
Jun	3.96	3.98	4.17	1993	24	9.47	1991	.39	1988	9.6	6.4	2.6	1.0	.91	1.28	1.86	2.38	2.90	3.45	4.07	4.81	5.78	7.32	8.78	
Jul	5.42	4.61	5.22	1993	15	13.61	1971	1.34	1996	12.0	8.6	3.5	1.5	1.70	2.22	2.98	3.64	4.27	4.92	5.64	6.49	7.58	9.27	10.84	
Aug	4.16	3.59	3.30	1993	3	11.51	1984	.91	1997	9.0	6.3	3.0	1.3	.92	1.31	1.92	2.47	3.02	3.60	4.26	5.05	6.08	7.74	9.29	
Sep	4.28	3.16	7.82	1994	8	16.76	1979	.76	1984	7.8	5.2	2.5	1.1	.60	.95	1.56	2.16	2.78	3.46	4.26	5.23	6.54	8.68	10.75	
Oct	3.28	2.97	4.71	1964	5	11.94	1985	.00	1978	6.2	3.9	2.1	1.4	.16	.44	.94	1.42	1.93	2.51	3.19	4.04	5.20	7.11	8.99	
Nov	4.83	4.70	4.24	1948	27	12.56	1986	.15	1999	9.0	6.0	3.5	1.8	.98	1.42	2.13	2.78	3.43	4.13	4.92	5.87	7.13	9.14	11.05	
Dec	5.24	4.42	6.39	1973	26	13.67	1973	1.59	1980	10.0	6.5	3.3	1.5	1.66	2.16	2.90	3.53	4.13	4.76	5.45	6.26	7.30	8.93	10.43	
Ann	58.60	57.38	7.82	Sep 1994	8	16.76	Sep 1979	.00	Oct 1978	110.3	76.5	38.4	18.4	43.28	46.29	50.12	53.01	55.57	58.04	60.57	63.36	66.74	71.62	75.81	

+ 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: 1891-2001

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

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Station: LAUREL, MS

COOP ID: 224939

Climate Division: MS 9

NWS Call Sign:

Elevation: 225 Feet

Lat: 31°41N

Lon: 89°07W

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	#	.0	0	0	#	1988	8	#+	1988	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	0	0	#	1985	3	#	1985	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	#	0	#	1978	4	#	1978	#	1978	4	#	1978	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	#	.0	0	0	#	1987	3	#	1987	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	#	.0	N/A	N/A	#+	Jan 1988	8	#+	Jan 1988	#	Mar 1978	4	#	Mar 1978	.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

Complete documentation available from:

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NWS Call Sign:

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Lat: 31°41N

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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	4/05	4/02	3/30	3/27	3/24	3/21	3/16
32	3/27	3/22	3/18	3/15	3/12	3/10	3/06	3/03	2/26
28	3/13	3/06	3/01	2/25	2/21	2/17	2/13	2/08	2/01
24	3/06	2/25	2/18	2/12	2/07	2/01	1/26	1/17	1/02
20	2/20	2/09	2/01	1/24	1/15	12/29	0/00	0/00	0/00
16	1/26	1/15	1/03	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	10/18	10/23	10/27	10/30	11/03	11/06	11/09	11/13	11/18
32	10/29	11/04	11/08	11/12	11/15	11/19	11/22	11/27	12/03
28	11/09	11/16	11/21	11/25	11/29	12/03	12/07	12/12	12/19
24	11/18	11/28	12/06	12/13	12/19	12/26	1/02	1/11	1/28
20	12/12	12/24	1/03	1/12	1/23	2/10	0/00	0/00	0/00
16	12/27	1/06	1/15	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	235	229	224	220	217	213	209	205	198
32	270	262	257	252	247	243	238	233	225
28	309	299	292	286	280	275	268	261	252
24	>365	354	333	321	312	304	295	285	272
20	>365	>365	>365	>365	>365	>365	>365	335	317
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

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	585	421	256	95	12	0	0	0	4	102	297	518	2290
60	442	291	144	32	1	0	0	0	0	42	186	377	1515
57	363	219	94	13	0	0	0	0	0	20	133	301	1143
55	314	177	67	7	0	0	0	0	0	12	103	256	936
50	213	95	22	1	0	0	0	0	0	2	46	163	542
32	19	1	0	0	0	0	0	0	0	0	0	9	29

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	466	504	787	957	1227	1387	1525	1506	1307	1013	714	523	11916
55	49	37	141	274	514	697	812	793	617	312	127	57	4430
57	35	23	106	221	452	637	750	731	557	259	97	41	3909
60	22	11	63	150	360	547	657	638	467	187	59	24	3185
65	0	1	20	62	216	397	502	483	321	92	21	9	2124
70	0	0	4	16	102	249	347	328	189	34	6	0	1275

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	260	328	552	724	986	1154	1280	1260	1076	774	485	311	260	588	1140	1864	2850	4004	5284	6544	7620	8394	8879	9190
45	159	220	405	575	831	1004	1125	1105	926	619	346	199	159	379	784	1359	2190	3194	4319	5424	6350	6969	7315	7514
50	84	129	271	426	676	854	970	950	776	465	226	116	84	213	484	910	1586	2440	3410	4360	5136	5601	5827	5943
55	44	65	161	286	521	704	815	795	626	318	134	60	44	109	270	556	1077	1781	2596	3391	4017	4335	4469	4529
60	18	28	78	167	367	554	660	640	476	192	63	28	18	46	124	291	658	1212	1872	2512	2988	3180	3243	3271
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	164	216	351	470	667	792	878	869	736	509	314	200	164	380	731	1201	1868	2660	3538	4407	5143	5652	5966	6166

(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