

Climatology of the United States No. 20

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

Station: POPLARVILLE EXP STN, MS

1971-2000

COOP ID: 227128

Climate Division: MS10

NWS Call Sign:

Elevation: 313 Feet

Lat: 30° 51N

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	59.9	38.2	49.1	84	1986	19	58.7	1974	3	1985	21	39.2	1978	509	0	.0	.0	26.2	.1	9.7	.0
Feb	63.7	41.0	52.4	87	1985	25	57.7	1990	10	1996	4	43.1	1978	359	5	.0	.0	25.7	.1	5.6	.0
Mar	70.6	47.9	59.3	89	1946	30	64.3	1997	15	1980	2	54.5	1996	202	24	.0	.0	30.5	.0	1.7	.0
Apr	76.9	54.0	65.5	98	1930	24	70.7	1999	30+	1940	13	61.5	1983	68	81	.0	.2	30.0	.0	.1	.0
May	84.2	62.7	73.5	101+	1951	31	78.1	2000	41	1992	7	69.4	1976	4	266	.0	4.6	31.0	.0	.0	.0
Jun	90.1	69.0	79.6	104	1936	20	83.4	1998	49	1984	1	76.4	1983	0	437	.2	17.7	30.0	.0	.0	.0
Jul	92.0	71.3	81.7	105+	2000	16	84.3	2000	58	1967	15	79.2	1975	0	515	.6	23.2	31.0	.0	.0	.0
Aug	92.1	70.8	81.5	103+	1986	1	85.5	1999	57	1990	10	78.7	1992	0	510	1.1	23.2	31.0	.0	.0	.0
Sep	88.0	66.1	77.1	100+	1931	24	81.4	1980	39	1967	29	73.1	1975	0	362	.2	12.7	30.0	.0	.0	.0
Oct	79.9	55.2	67.6	95+	1941	8	72.6	1984	28+	1989	20	62.2	1976	50	129	.0	1.4	31.0	.0	.2	.0
Nov	70.2	46.9	58.6	88+	1933	4	65.2	1985	20	1940	15	50.6	1976	229	36	.0	.0	29.5	.0	2.1	.0
Dec	62.6	40.6	51.6	83	1933	5	60.7	1984	5+	1989	23	43.1	1989	430	14	.0	.0	27.9	.1	7.0	.0
Ann	77.5	55.3	66.5	105+	Jul 2000	16	85.5	Aug 1999	3	Jan 1985	21	39.2	Jan 1978	1851	2379	2.1	83.0	353.8	.3	26.4	.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: 1930-2001

(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	6.00	5.86	6.42	1993	21	14.64	1998	.86	1981	12.4	8.4	4.0	1.9	1.77	2.34	3.20	3.94	4.66	5.41	6.23	7.21	8.47	10.44	12.27
Feb	5.72	4.79	7.20	1981	10	12.87	1981	1.00	2000	9.7	6.8	3.7	1.9	1.52	2.06	2.89	3.62	4.33	5.08	5.92	6.90	8.19	10.21	12.10
Mar	6.56	6.06	4.84	1960	29	13.79	1980	2.51	2000	10.2	7.3	3.9	2.3	2.71	3.31	4.15	4.85	5.50	6.16	6.88	7.70	8.74	10.33	11.78
Apr	5.43	4.46	5.76	1983	7	14.18	1980	.64	1999	8.0	5.7	3.0	1.8	.96	1.43	2.23	2.97	3.73	4.55	5.49	6.63	8.14	10.58	12.91
May	5.55	5.32	6.00	1931	19	15.06	1980	.76+	1998	9.1	6.6	3.5	1.6	.99	1.48	2.30	3.05	3.83	4.66	5.61	6.77	8.30	10.78	13.14
Jun	4.63	4.34	6.23	1978	8	10.77	1989	.78	1979	10.6	7.2	3.0	1.3	1.20	1.63	2.31	2.90	3.48	4.10	4.78	5.59	6.65	8.32	9.88
Jul	6.56	6.22	4.59	1988	28	13.37	1993	1.07	2000	13.9	9.9	4.1	2.0	2.09	2.72	3.64	4.43	5.19	5.97	6.83	7.84	9.14	11.17	13.04
Aug	5.06	4.65	5.05	1931	16	8.55	1984	1.11	1994	12.0	7.9	3.4	1.4	1.69	2.17	2.87	3.46	4.04	4.63	5.27	6.03	7.00	8.50	9.89
Sep	4.24	3.40	6.05	1947	19	10.80	1973	.70	1987	9.9	6.7	2.7	1.2	.70	1.07	1.69	2.27	2.87	3.52	4.26	5.17	6.38	8.34	10.22
Oct	3.47	3.03	4.05	1932	15	13.37	1985	.00	1978	6.2	4.2	2.2	1.1	.24	.59	1.14	1.65	2.19	2.77	3.45	4.28	5.41	7.24	9.01
Nov	4.75	4.45	5.28	1943	7	9.38	1992	.74	1999	9.4	6.5	3.3	1.6	1.49	1.94	2.61	3.19	3.74	4.32	4.95	5.69	6.64	8.12	9.50
Dec	5.18	4.66	10.52	1961	10	10.31	1972	.79	1980	11.2	7.0	3.4	1.7	1.85	2.34	3.04	3.63	4.20	4.78	5.41	6.15	7.09	8.54	9.87
Ann	63.15	64.07	10.52	Dec 1961	10	15.06	May 1980	.00	Oct 1978	122.6	84.2	40.2	19.8	46.38	49.67	53.86	57.02	59.82	62.52	65.30	68.37	72.07	77.43	82.04

+ 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

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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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.1	.0	#	0	2.0	1973	9	2.0	1973	#	1988	12	#	1988	.1	.1	.0	.0	.0	.0	.0	.0	.0
Mar	.3	.0	0	0	6.0	1993	13	6.0	1993	0	0	0	0	0	.1	.1	.1	.1	.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	.4	.0	N/A	N/A	6.0	Mar 1993	13	6.0	Mar 1993	#	Feb 1988	12	#	Feb 1988	.2	.2	.1	.1	.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	4/04	3/31	3/26	3/23	3/19	3/15	3/10	3/03
32	3/24	3/18	3/13	3/10	3/06	3/03	2/27	2/22	2/16
28	3/16	3/08	3/01	2/24	2/20	2/15	2/10	2/04	1/26
24	3/03	2/21	2/13	2/07	2/01	1/26	1/20	1/13	1/03
20	2/19	2/09	2/01	1/25	1/17	1/08	12/22	0/00	0/00
16	1/27	1/11	12/20	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	10/22	10/28	11/02	11/06	11/09	11/12	11/16	11/21	11/27
32	10/31	11/08	11/13	11/17	11/22	11/26	11/30	12/06	12/13
28	11/11	11/20	11/26	12/02	12/07	12/13	12/18	12/25	1/03
24	11/24	12/06	12/14	12/22	12/28	1/04	1/12	1/20	2/01
20	12/11	12/21	12/29	1/05	1/12	1/21	2/06	0/00	0/00
16	12/31	1/18	2/10	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	257	248	241	236	231	226	220	214	205
32	290	280	272	266	260	254	248	240	230
28	325	313	304	297	290	283	276	267	255
24	>365	>365	345	332	322	314	306	298	286
20	>365	>365	>365	>365	>365	>365	341	324	307
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	509	359	202	68	4	0	0	0	0	50	229	430	1851
60	376	233	101	18	0	0	0	0	0	14	133	298	1173
57	304	169	58	7	0	0	0	0	0	5	89	231	863
55	262	134	37	3	0	0	0	0	0	3	65	193	697
50	174	65	9	0	0	0	0	0	0	0	25	112	385
32	13	0	0	0	0	0	0	0	0	0	0	3	16

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	541	571	845	1003	1286	1427	1538	1533	1352	1102	798	610	12606
55	77	61	168	316	573	737	825	820	662	392	173	87	4891
57	57	40	127	260	511	677	763	758	602	333	137	63	4328
60	36	20	77	182	418	587	670	665	512	248	91	37	3543
65	0	5	24	81	266	437	515	510	362	129	36	14	2379
70	0	0	4	23	133	287	360	355	218	47	12	2	1441

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	351	417	636	792	1059	1194	1289	1285	1117	872	584	412	351	768	1404	2196	3255	4449	5738	7023	8140	9012	9596	10008
45	230	293	487	642	904	1044	1134	1130	967	718	442	284	230	523	1010	1652	2556	3600	4734	5864	6831	7549	7991	8275
50	141	184	347	493	749	894	979	975	817	563	308	179	141	325	672	1165	1914	2808	3787	4762	5579	6142	6450	6629
55	72	100	219	348	594	744	824	820	667	414	192	100	72	172	391	739	1333	2077	2901	3721	4388	4802	4994	5094
60	32	46	115	218	439	594	669	665	517	271	107	50	32	78	193	411	850	1444	2113	2778	3295	3566	3673	3723
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	212	256	402	517	731	828	892	882	773	576	372	255	212	468	870	1387	2118	2946	3838	4720	5493	6069	6441	6696

(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