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: BROOKHAVEN CITY, MS **COOP ID: 221094**

Climate Division: MS 7 **NWS Call Sign:** **Elevation: 435 Feet** **Lat: 31˚33N** **Lon: 90˚27W**

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	57.3	34.7	46.0	82+	1949	11	54.2	1974	2	1940	27	37.3	1978	595	0	.0	.0	23.1	.5	14.5	.0
Feb	61.8	37.6	49.7	85	1932	29	56.2	1976	5	1951	2	40.7	1978	429	1	.0	.0	23.7	.5	9.3	.0
Mar	69.5	45.0	57.3	90	1946	30	64.2	1974	14	1980	3	51.5	1996	263	22	.0	.0	29.7	@	3.6	.0
Apr	76.0	51.0	63.5	92+	1943	30	69.5	1981	26+	1987	4	58.8	1997	110	65	.0	.1	30.0	.0	.6	.0
May	82.7	59.8	71.3	102	1951	31	74.7	1974	39	1992	7	67.6	1988	11	204	.0	1.7	31.0	.0	.0	.0
Jun	88.8	66.9	77.9	106	1936	20	82.5	1977	44	1984	1	75.6	1995	0	385	.1	13.7	30.0	.0	.0	.0
Jul	91.2	69.7	80.5	105	1930	12	82.8	1980	50	1943	10	77.7	1985	0	479	.4	22.2	31.0	.0	.0	.0
Aug	91.4	68.7	80.1	106	2000	31	82.9	1999	51	1992	16	76.6	1992	0	467	.5	21.7	31.0	.0	.0	.0
Sep	87.0	63.3	75.2	105	2000	2	81.0	1972	37	1967	29	68.5	1985	6	310	.3	10.6	30.0	.0	.0	.0
Oct	78.1	51.5	64.8	96	1938	1	70.7	1984	27	1993	31	59.2	1987	96	91	.0	.9	31.0	.0	.4	.0
Nov	68.0	43.3	55.7	89+	1935	1	61.9	1978	17	1940	16	49.4	1976	295	15	.0	.0	28.6	.0	5.1	.0
Dec	60.3	37.0	48.7	84	1951	6	58.0	1971	5+	1989	23	39.3	1989	518	10	.0	.0	25.8	.3	12.6	.0
Ann	76.0	52.4	64.2	106+	Aug 2000	31	82.9	Aug 1999	2	Jan 1940	27	37.3	Jan 1978	2323	2049	1.3	70.9	344.9	1.3	46.1	.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: 1930-2001

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

Issue Date: February 2004

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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	6.58	6.38	6.74	1994	28	15.13	1990	1.43	1971
Feb	5.75	5.28	7.11	1990	16	12.84	1987	1.30	2000
Mar	6.27	6.03	4.21	2001	2	14.40	1980	2.72	1978
Apr	6.33	4.98	6.88	1955	13	17.65	1991	.36	1976
May	5.47	5.76	8.08	1990	13	12.50	1990	.06	1988
Jun	4.08	4.05	5.16	1957	28	7.94	1983	.55	1977
Jul	4.58	4.16	3.21	1964	10	10.84	1979	.65	1983
Aug	4.37	4.41	6.70	1992	27	10.75	1992	.64	1989
Sep	3.81	3.40	4.30	1994	17	8.53	1989	1.05	1993
Oct	3.30	2.76	6.84	1964	5	11.64	1985	.00	1978
Nov	4.78	4.26	4.40	1946	11	8.98	1973	.35	1985
Dec	5.99	4.95	7.75	1982	4	17.47	1982	1.89	1984
Ann	61.31	60.40	8.08	May 1990	13	17.65	Apr 1991	.00	Oct 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.8	7.9	4.5	2.3
Feb	7.7	6.7	3.8	2.2
Mar	8.6	7.4	4.3	2.5
Apr	6.8	5.7	3.6	2.3
May	8.0	6.7	3.4	1.8
Jun	8.4	6.9	3.0	1.1
Jul	9.9	8.1	3.2	1.4
Aug	8.0	6.4	3.0	1.2
Sep	6.8	5.6	2.5	1.1
Oct	5.0	4.2	2.4	1.3
Nov	7.7	5.9	3.4	1.8
Dec	8.7	7.1	4.0	2.0
Ann	95.4	78.6	41.1	21.0

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	1.78	2.40	3.35	4.18	5.00	5.86	6.81	7.93	9.40	11.70	13.85
Feb	1.63	2.17	3.00	3.72	4.42	5.15	5.96	6.92	8.16	10.11	11.92
Mar	2.52	3.09	3.91	4.59	5.22	5.87	6.57	7.37	8.40	9.96	11.39
Apr	.95	1.48	2.40	3.27	4.18	5.18	6.33	7.73	9.62	12.69	15.64
May	.68	1.12	1.89	2.65	3.46	4.36	5.40	6.68	8.43	11.29	14.07
Jun	1.15	1.54	2.12	2.63	3.13	3.65	4.23	4.91	5.80	7.19	8.48
Jul	1.41	1.84	2.49	3.05	3.59	4.15	4.76	5.48	6.42	7.87	9.22
Aug	1.05	1.46	2.09	2.66	3.23	3.83	4.50	5.29	6.34	7.99	9.55
Sep	1.10	1.47	2.01	2.48	2.94	3.42	3.95	4.57	5.38	6.65	7.82
Oct	.31	.70	1.24	1.72	2.22	2.75	3.35	4.08	5.06	6.63	8.14
Nov	1.15	1.60	2.30	2.92	3.54	4.19	4.92	5.79	6.93	8.73	10.42
Dec	1.95	2.51	3.35	4.06	4.75	5.46	6.24	7.15	8.32	10.14	11.82
Ann	45.23	48.39	52.41	55.44	58.13	60.72	63.38	66.32	69.87	74.99	79.40

\+ 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:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.4	.0	0	0
Feb	#	.0	#	0
Mar	.2	.0	0	0
Apr	.0	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	#	.0	0	0
Dec	#	.0	0	0
Ann	.6	.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	3.8	1977	31	4.8	1977	0	0	0	0	0
Feb	#	1989	7	#	1989	#	1989	8	#	1989
Mar	3.5	1993	13	3.5	1993	0	0	0	0	0
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	#	1976	29	#	1976	0	0	0	0	0
Dec	#	1978	9	#	1978	0	0	0	0	0
Ann	3.8	Jan 1977	31	4.8	Jan 1977	#	Feb 1989	8	#	Feb 1989

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.2	.1	.1	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.1	.1	.1	.0	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.0	.0	.0	.0	.0
Ann	.3	.2	.2	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.0	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	.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	4/18	4/14	4/10	4/08	4/05	4/02	3/31	3/27	3/23
32	4/10	4/03	3/29	3/25	3/21	3/17	3/13	3/08	3/01
28	3/25	3/17	3/11	3/06	3/01	2/25	2/20	2/14	2/06
24	3/12	3/03	2/24	2/18	2/13	2/07	2/02	1/26	1/16
20	3/02	2/19	2/10	2/03	1/26	1/17	1/04	0/00	0/00
16	2/10	1/30	1/21	1/10	12/24	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	10/12	10/17	10/20	10/24	10/26	10/29	11/02	11/05	11/10
32	10/24	10/29	11/02	11/06	11/09	11/12	11/15	11/19	11/25
28	11/07	11/14	11/18	11/22	11/25	11/29	12/03	12/07	12/13
24	11/19	11/29	12/06	12/12	12/18	12/24	12/30	1/06	1/16
20	12/02	12/15	12/25	1/03	1/12	1/22	2/07	0/00	0/00
16	12/20	12/31	1/09	1/18	1/31	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	221	215	211	207	204	200	196	192	186
32	260	251	244	238	232	226	220	213	204
28	300	289	281	275	268	262	256	248	237
24	339	326	318	311	305	299	292	284	274
20	>365	>365	>365	>365	>365	331	319	309	299
16	>365	>365	>365	>365	>365	>365	>365	>365	320

***** 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	595	429	263	110	11	0	0	0	6	96	295	518	2323
60	451	298	152	43	1	0	0	0	0	37	179	378	1539
57	370	225	101	20	0	0	0	0	0	17	125	303	1161
55	320	182	73	12	0	0	0	0	0	9	95	258	949
50	215	98	26	2	0	0	0	0	0	1	40	166	548
32	18	1	0	0	0	0	0	0	0	0	0	10	29

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	453	496	783	945	1216	1375	1502	1490	1294	1018	711	525	11808
55	42	34	142	266	503	685	789	777	604	314	116	60	4332
57	30	21	109	215	441	625	727	715	544	259	86	43	3815
60	18	10	66	148	349	535	634	622	455	186	50	25	3098
65	0	1	22	65	204	385	479	467	310	91	15	10	2049
70	0	0	5	18	89	237	324	312	181	33	2	0	1201

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	256	334	557	716	977	1141	1262	1246	1057	776	484	315	256	590	1147	1863	2840	3981	5243	6489	7546	8322	8806	9121
45	159	217	413	567	822	991	1107	1091	907	621	346	200	159	376	789	1356	2178	3169	4276	5367	6274	6895	7241	7441
50	89	128	281	420	667	841	952	936	757	468	227	120	89	217	498	918	1585	2426	3378	4314	5071	5539	5766	5886
55	45	65	167	286	512	691	797	781	607	322	132	60	45	110	277	563	1075	1766	2563	3344	3951	4273	4405	4465
60	15	27	82	166	358	541	642	626	459	194	67	30	15	42	124	290	648	1189	1831	2457	2916	3110	3177	3207
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	163	215	354	469	661	788	866	848	724	517	309	199	163	378	732	1201	1862	2650	3516	4364	5088	5605	5914	6113

(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.
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