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: HOUSTON, MS **COOP ID: 224265**

Climate Division: MS 6 **NWS Call Sign:** **Elevation: 270 Feet** **Lat: 33˚55N** **Lon: 89˚00W**

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	50.5	29.9	40.2	81	1950	25	47.7	1974	-10+	1962	11	28.8	1977	770	0	.0	.0	16.7	2.1	18.9	.1
Feb	56.1	32.3	44.2	87	1949	15	51.8	1990	1	1960	14	34.4	1978	583	0	.0	.0	19.4	1.2	14.8	.0
Mar	65.0	40.2	52.6	86+	1967	13	58.2	1974	10	1980	3	47.0	1993	393	8	.0	.0	28.1	.1	7.3	.0
Apr	73.1	47.0	60.1	95	1987	22	65.9	1981	23	1992	3	54.3	1993	174	27	.0	.1	29.8	.0	1.5	.0
May	80.4	56.4	68.4	96	1977	31	73.6	1987	33	1976	4	63.2	1976	47	152	.0	1.4	31.0	.0	.0	.0
Jun	87.4	64.3	75.9	103+	1952	29	79.1	1998	40	1966	1	71.1	1974	1	326	.0	10.8	30.0	.0	.0	.0
Jul	90.6	68.1	79.4	105+	1980	16	83.0	1980	50	1967	15	76.1	1994	0	444	.7	19.1	31.0	.0	.0	.0
Aug	90.0	66.1	78.1	105+	1954	13	81.6	1980	46	1956	23	73.7	1992	0	405	.7	17.8	31.0	.0	.0	.0
Sep	84.3	59.9	72.1	104	1951	1	77.2	1998	31	1967	29	67.2	1974	18	231	.1	6.8	30.0	.0	.0	.0
Oct	74.5	46.7	60.6	97	1953	1	66.8	1971	16	1952	30	54.6	1976	185	48	.0	.3	30.9	.0	2.1	.0
Nov	63.4	38.7	51.1	86+	1955	15	57.7	1985	8	1950	25	41.9	1976	425	6	.0	.0	26.7	.1	9.4	.0
Dec	54.1	31.9	43.0	80+	1948	16	52.4	1984	0	1962	13	33.7	1989	682	0	.0	.0	20.4	1.3	16.7	.1
Ann	72.5	48.5	60.5	105+	Jul 1980	16	83.0	Jul 1980	-10+	Jan 1962	11	28.8	Jan 1977	3278	1647	1.5	56.3	325.0	4.8	70.7	.2

\+ 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

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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	5.30	4.89	4.75	1999	23	10.66	1974	.78	1986
Feb	4.80	3.88	5.32	1991	19	10.60	1991	1.18	1972
Mar	6.50	5.57	6.74	1973	16	17.59	1980	2.48	1985
Apr	5.32	4.59	4.10+	1991	29	16.16	1991	.72	1987
May	5.55	4.71	5.75	1997	3	16.84	1991	.56	1992
Jun	5.18	4.22	6.00	1994	27	14.67	1999	.36	1988
Jul	4.03	3.89	5.21	1963	14	9.04	1996	.31	1978
Aug	3.05	2.91	5.30	1995	5	7.44	1985	.26	1983
Sep	3.91	3.46	4.41	1983	21	9.69	1979	.11	1998
Oct	3.27	3.01	4.93	1957	3	8.07	1984	.43	2000
Nov	5.30	4.78	4.65	2000	9	11.93	1986	1.32	1981
Dec	6.05	4.53	7.15	1982	26	20.28	1982	.74	1980
Ann	58.26	57.39	7.15	Dec 1982	26	20.28	Dec 1982	.11	Sep 1998

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.4	7.8	3.6	1.7
Feb	8.7	6.8	3.2	1.5
Mar	9.5	7.2	3.5	2.2
Apr	8.0	6.4	3.5	1.9
May	9.7	7.0	3.9	1.6
Jun	9.0	6.6	3.6	1.5
Jul	8.5	6.5	2.7	1.1
Aug	6.0	4.5	1.9	.8
Sep	7.3	5.4	2.6	1.1
Oct	6.2	4.6	2.2	1.0
Nov	8.8	6.8	3.6	1.9
Dec	9.5	7.7	3.6	1.8
Ann	101.6	77.3	37.9	18.1

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	1.54	2.04	2.80	3.45	4.09	4.76	5.50	6.36	7.49	9.25	10.88
Feb	1.48	1.93	2.61	3.20	3.76	4.35	4.99	5.75	6.73	8.26	9.67
Mar	2.27	2.89	3.78	4.53	5.25	5.98	6.79	7.72	8.92	10.78	12.48
Apr	.98	1.45	2.23	2.96	3.69	4.49	5.39	6.48	7.93	10.27	12.50
May	1.28	1.80	2.61	3.34	4.07	4.84	5.70	6.73	8.09	10.24	12.27
Jun	.92	1.38	2.14	2.84	3.57	4.35	5.24	6.31	7.75	10.06	12.27
Jul	.83	1.20	1.79	2.33	2.87	3.46	4.11	4.90	5.95	7.62	9.20
Aug	.52	.78	1.23	1.65	2.07	2.54	3.07	3.72	4.58	5.97	7.30
Sep	.65	.98	1.55	2.09	2.64	3.25	3.94	4.77	5.89	7.71	9.45
Oct	.64	.94	1.42	1.86	2.30	2.78	3.33	3.98	4.84	6.23	7.55
Nov	1.53	2.03	2.79	3.45	4.09	4.76	5.50	6.38	7.51	9.28	10.93
Dec	1.19	1.74	2.63	3.44	4.27	5.16	6.16	7.37	8.97	11.53	13.97
Ann	40.32	43.76	48.18	51.55	54.55	57.46	60.47	63.81	67.87	73.77	78.89

\+ 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

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	1.5	.2	#	0
Feb	.5	.0	#	0
Mar	.1	.0	#	0
Apr	#	.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	.1	.0	#	0
Dec	.1	.0	#	0
Ann	2.3	.2	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	5.5	2000	28	6.5	2000	6	2000	28	1	1978
Feb	1.9	1996	2	3.4	1971	4	1985	5	1	1985
Mar	1.4	1984	10	1.5	1984	2	1984	10	#+	1984
Apr	#	1971	7	#	1971	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	1.8	1975	23	1.8	1975	2	1975	23	#+	1991
Dec	1.0	1977	30	1.0+	1985	1	1985	20	#+	2000
Ann	5.5	Jan 2000	28	6.5	Jan 2000	6	Jan 2000	28	1+	Feb 1985

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.8	.6	.2	@	.0
Feb	.4	.3	.0	.0	.0
Mar	.2	@	.0	.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
Dec	.2	.1	.0	.0	.0
Ann	1.6	1.0	.2	@	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	1.0	.3	.1	.0
Feb	.4	.0	.0	.0
Mar	.1	.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	.1	.0	.0	.0
Ann	1.6	.3	.1	.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	4/29	4/24	4/22	4/19	4/17	4/14	4/12	4/09	4/05
32	4/20	4/16	4/12	4/09	4/07	4/04	4/01	3/29	3/24
28	4/08	4/02	3/29	3/25	3/21	3/18	3/14	3/09	3/03
24	3/24	3/17	3/11	3/07	3/02	2/26	2/21	2/16	2/08
20	3/12	3/05	2/28	2/23	2/19	2/14	2/10	2/04	1/28
16	3/05	2/24	2/18	2/13	2/07	2/02	1/27	1/18	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	10/04	10/07	10/09	10/11	10/13	10/15	10/17	10/19	10/23
32	10/07	10/13	10/18	10/21	10/25	10/28	11/01	11/06	11/12
28	10/18	10/24	10/29	11/01	11/05	11/08	11/11	11/16	11/22
24	10/31	11/07	11/12	11/16	11/20	11/24	11/28	12/03	12/10
20	11/09	11/19	11/27	12/03	12/09	12/15	12/21	12/29	1/08
16	11/27	12/08	12/16	12/23	12/29	1/05	1/13	1/24	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	194	189	185	182	179	176	172	169	163
32	219	213	208	204	200	197	193	188	182
28	252	244	238	232	228	223	217	211	203
24	291	281	274	268	262	256	250	243	233
20	322	310	303	296	291	285	279	272	262
16	>365	>365	352	334	323	314	306	297	285

***** 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	770	583	393	174	47	1	0	0	18	185	425	682	3278
60	623	445	258	81	12	0	0	0	4	95	292	536	2346
57	535	368	191	44	5	0	0	0	1	58	222	449	1873
55	478	317	153	27	2	0	0	0	0	39	181	394	1591
50	347	204	77	5	0	0	0	0	0	12	99	270	1014
32	55	11	0	0	0	0	0	0	0	0	1	28	95

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	308	353	638	843	1129	1315	1467	1428	1203	886	572	368	10510
55	19	14	78	179	417	625	754	715	513	213	62	22	3611
57	13	9	54	137	358	565	692	653	454	169	42	15	3161
60	8	2	29	84	273	475	599	560	367	114	22	8	2541
65	0	0	8	27	152	326	444	405	231	48	6	0	1647
70	0	0	0	5	68	186	289	253	122	15	0	0	938

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	144	207	419	615	897	1091	1234	1196	979	660	367	191	144	351	770	1385	2282	3373	4607	5803	6782	7442	7809	8000
45	79	125	287	470	742	941	1079	1041	829	507	249	112	79	204	491	961	1703	2644	3723	4764	5593	6100	6349	6461
50	38	60	178	330	587	791	924	886	679	360	155	60	38	98	276	606	1193	1984	2908	3794	4473	4833	4988	5048
55	17	28	94	208	433	641	769	731	529	230	80	30	17	45	139	347	780	1421	2190	2921	3450	3680	3760	3790
60	0	4	40	112	283	491	614	576	383	126	34	2	0	4	44	156	439	930	1544	2120	2503	2629	2663	2665
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	88	136	260	393	590	749	844	816	661	439	233	125	88	224	484	877	1467	2216	3060	3876	4537	4976	5209	5334

(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