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: HOLLY SPRINGS 4 N, MS **COOP ID: 224173**

Climate Division: MS 2 **NWS Call Sign:** **Elevation: 483 Feet** **Lat: 34˚49N** **Lon: 89˚26W**

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	47.7	27.3	37.5	78	1972	25	44.8	1990	-5+	1966	31	25.2	1977	853	0	.0	.0	14.0	3.6	21.4	.4
Feb	53.4	30.6	42.0	80	1996	24	49.5	1976	0	1996	4	30.6	1978	644	0	.0	.0	17.3	2.1	16.6	@
Mar	62.4	38.2	50.3	85	1998	31	56.4	2000	11+	1980	3	44.4	1980	460	4	.0	.0	26.6	.3	9.4	.0
Apr	71.3	45.4	58.4	92	1987	22	64.5	1999	24+	1962	3	52.0	1983	221	22	.0	@	29.3	.0	2.4	.0
May	78.8	55.1	67.0	95	1977	31	72.3	1998	33+	1976	4	60.1	1976	78	140	.0	.9	31.0	.0	.0	.0
Jun	86.1	63.7	74.9	100+	1988	27	80.1	1998	40+	2000	7	69.5	1974	3	299	.1	8.5	30.0	.0	.0	.0
Jul	89.9	67.9	78.9	106	1980	15	83.4	1980	50+	1972	6	76.0	1972	0	430	.5	18.0	31.0	.0	.0	.0
Aug	89.1	65.5	77.3	105	2000	30	81.2+	2000	46+	1968	28	73.3	1992	1	382	.7	15.5	31.0	.0	.0	.0
Sep	83.5	58.5	71.0	101	2000	1	77.1	1998	33+	1967	30	65.0	1974	28	208	.2	6.5	30.0	.0	.0	.0
Oct	73.6	45.8	59.7	93	1998	1	65.8	1971	20	2000	9	53.5	1987	208	43	.0	.3	30.8	.0	3.3	.0
Nov	61.7	38.0	49.9	87	2000	1	56.1	1985	11+	1970	24	40.7	1976	457	3	.0	.0	25.2	.1	10.6	.0
Dec	51.6	30.4	41.0	78+	1982	3	50.9	1984	-12	1963	24	30.2	2000	744	0	.0	.0	18.5	2.1	18.3	.2
Ann	70.8	47.2	59.0	106	Jul 1980	15	83.4	Jul 1980	-12	Dec 1963	24	25.2	Jan 1977	3697	1531	1.5	49.7	314.7	8.2	82.0	.6

+ 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	4.79	4.58	3.62	1974	11	10.66	1999	.67	1986
Feb	4.19	3.79	4.32	1990	3	11.16	1990	.71	1978
Mar	5.98	5.44	5.08	1980	17	13.62	1980	2.48	1986
Apr	5.31	4.44	4.07	1969	10	18.13	1991	1.75	1986
May	5.49	4.78	4.88	1978	7	12.98	1991	1.00	1988
Jun	4.85	4.61	3.38	1996	9	11.58	1989	.33	1988
Jul	4.60	3.85	3.90	1998	14	9.75	1992	.66	2000
Aug	3.42	3.77	4.50	1995	5	7.25	1993	.31	1999
Sep	3.60	2.91	4.57	1997	24	9.28	1996	.42	1984
Oct	3.77	3.55	3.64	1999	10	10.13	1984	.02	2000
Nov	5.45	5.31	5.82	1948	18	11.09	1986	1.77	1999
Dec	5.57	4.91	5.61	1982	26	15.92	1982	.88	1980
Ann	57.02	56.55	5.82	Nov 1948	18	18.13	Apr 1991	.02	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.5	7.7	3.7	1.2
Feb	9.8	6.6	2.9	1.1
Mar	11.7	8.3	3.9	2.0
Apr	10.1	7.1	3.8	1.8
May	10.8	8.1	3.8	1.7
Jun	9.1	6.1	3.1	1.6
Jul	9.0	6.2	3.1	1.6
Aug	7.7	5.0	2.3	1.1
Sep	8.5	5.2	2.4	.9
Oct	7.4	4.8	2.9	1.3
Nov	10.2	6.8	3.8	1.8
Dec	11.1	7.3	3.6	1.8
Ann	116.9	79.2	39.3	17.9

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	1.31	1.76	2.45	3.06	3.65	4.27	4.95	5.77	6.82	8.48	10.03
Feb	1.09	1.49	2.10	2.63	3.16	3.71	4.32	5.05	6.00	7.50	8.91
Mar	2.47	3.02	3.79	4.42	5.01	5.62	6.27	7.02	7.96	9.41	10.72
Apr	1.83	2.33	3.06	3.68	4.27	4.88	5.54	6.32	7.31	8.85	10.26
May	1.62	2.14	2.93	3.60	4.26	4.94	5.70	6.58	7.73	9.53	11.20
Jun	.90	1.33	2.05	2.71	3.38	4.10	4.92	5.92	7.24	9.36	11.38
Jul	.92	1.34	2.01	2.63	3.26	3.93	4.69	5.60	6.81	8.74	10.58
Aug	.61	.91	1.41	1.88	2.35	2.87	3.46	4.17	5.12	6.64	8.10
Sep	.68	1.00	1.53	2.02	2.51	3.05	3.65	4.39	5.36	6.92	8.41
Oct	.61	.94	1.49	2.01	2.54	3.12	3.79	4.60	5.69	7.45	9.13
Nov	1.81	2.32	3.08	3.72	4.34	4.98	5.68	6.50	7.55	9.18	10.68
Dec	1.45	1.98	2.79	3.50	4.20	4.94	5.76	6.73	7.99	9.99	11.86
Ann	43.08	45.84	49.34	51.98	54.30	56.53	58.83	61.35	64.39	68.77	72.53

\+ 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

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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	1.0	.0	#	0
Feb	.7	.0	#	0
Mar	.1	.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	1.8	.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	6.0	1998	16	6.0	1998	6	1998	16	1	1978
Feb	4.0	1985	12	6.0	1979	4	1979	18	#+	1996
Mar	1.0	1984	10	1.0	1984	1	1995	3	#+	1996
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	.3	1976	29	.3	1976	#+	1997	15	#+	1997
Dec	.3	1974	1	.3	1974	1+	1990	24	#+	1990
Ann	6.0	Jan 1998	16	6.0+	Jan 1998	6	Jan 1998	16	1	Jan 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.0	.4	.2	@	.0
Feb	.6	.4	.2	.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	.0
Dec	.1	.0	.0	.0	.0
Ann	1.9	.8	.4	@	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.7	.0	.0	.0
Feb	.5	.1	.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	1.2	.1	.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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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	4/25	4/23	4/20	4/18	4/15	4/13	4/10	4/06
32	4/21	4/17	4/14	4/11	4/09	4/07	4/04	4/01	3/28
28	4/11	4/06	4/03	3/31	3/28	3/26	3/23	3/20	3/15
24	3/26	3/20	3/16	3/12	3/09	3/05	3/01	2/25	2/19
20	3/15	3/08	3/03	2/27	2/23	2/19	2/15	2/10	2/03
16	3/05	2/24	2/18	2/13	2/08	2/04	1/29	1/23	1/15

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	9/29	10/04	10/06	10/09	10/11	10/14	10/16	10/19	10/23
32	10/05	10/10	10/14	10/17	10/21	10/24	10/27	10/31	11/05
28	10/17	10/22	10/26	10/29	11/02	11/05	11/08	11/12	11/17
24	11/01	11/07	11/11	11/15	11/18	11/21	11/25	11/29	12/05
20	11/05	11/13	11/19	11/24	11/29	12/04	12/09	12/15	12/23
16	11/24	12/03	12/10	12/15	12/20	12/26	12/31	1/07	1/16

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	192	186	182	179	176	173	169	165	160
32	211	205	201	197	194	190	187	182	176
28	238	231	226	222	218	213	209	204	197
24	276	268	263	258	254	249	245	239	232
20	307	297	290	284	278	272	266	259	249
16	347	334	326	319	312	306	300	292	281

***** 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	853	644	460	221	78	3	0	1	28	208	457	744	3697
60	705	508	319	117	29	0	0	0	7	113	320	598	2716
57	616	430	243	72	14	0	0	0	2	71	246	511	2205
55	559	379	199	48	8	0	0	0	1	50	203	455	1902
50	422	263	111	14	1	0	0	0	0	16	115	327	1269
32	92	30	2	0	0	0	0	0	0	0	2	50	176

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	262	310	569	791	1085	1286	1453	1405	1170	858	539	329	10057
55	16	16	53	149	380	596	740	692	481	195	49	21	3388
57	11	11	35	113	324	536	678	630	423	155	32	15	2963
60	7	5	18	68	246	446	585	537	337	103	17	9	2378
65	0	0	4	22	140	299	430	382	208	43	3	0	1531
70	0	0	0	5	65	166	275	235	108	13	0	0	867

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	110	178	365	579	857	1060	1222	1172	949	628	330	161	110	288	653	1232	2089	3149	4371	5543	6492	7120	7450	7611
45	59	104	245	433	702	910	1067	1017	799	473	217	90	59	163	408	841	1543	2453	3520	4537	5336	5809	6026	6116
50	26	55	147	300	547	760	912	862	649	334	132	41	26	81	228	528	1075	1835	2747	3609	4258	4592	4724	4765
55	8	22	75	189	394	610	757	707	499	216	72	20	8	30	105	294	688	1298	2055	2762	3261	3477	3549	3569
60	0	1	32	97	254	460	602	552	358	117	30	1	0	1	33	130	384	844	1446	1998	2356	2473	2503	2504
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	70	121	227	372	564	733	838	801	632	416	216	99	70	191	418	790	1354	2087	2925	3726	4358	4774	4990	5089

(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