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: WOODVILLE 4 ESE, MS **COOP ID: 229793**

Climate Division: MS 7 **NWS Call Sign:** **Elevation: 400 Feet** **Lat: 31˚06N** **Lon: 91˚14W**

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	59.3	37.0	48.2	83	1952	1	55.3	1974	6+	1948	24	38.7	1977	531	0	.0	.0	25.5	.3	9.6	.0
Feb	63.4	39.8	51.6	90	1977	25	58.2	1976	7	1951	3	42.9	1978	379	2	.0	@	25.2	.3	6.3	.0
Mar	70.7	47.5	59.1	88+	1955	12	64.9	1974	19+	1980	2	53.2	1996	210	27	.0	.0	30.5	.0	1.7	.0
Apr	77.1	53.4	65.3	91+	1955	22	71.1	1981	29	1987	4	61.0	1983	71	79	.0	.1	30.0	.0	.1	.0
May	83.8	62.1	73.0	97	1998	31	76.5	1996	39	1954	4	69.4	1976	4	251	.0	3.0	31.0	.0	.0	.0
Jun	89.5	68.1	78.8	100+	1954	29	82.7	1998	50+	1954	4	76.4	1989	0	414	@	15.0	30.0	.0	.0	.0
Jul	91.6	71.3	81.5	101+	1960	12	84.2	1980	55+	1967	15	78.7	1989	0	511	.2	22.3	31.0	.0	.0	.0
Aug	91.8	70.6	81.2	106	2000	31	84.9	1999	53	1952	28	78.0	1992	0	503	.4	22.6	31.0	.0	.0	.0
Sep	87.9	65.8	76.9	108	2000	4	82.2	1980	38	1967	29	72.8	1999	1	356	.2	11.0	30.0	.0	.0	.0
Oct	79.8	55.7	67.8	95+	1952	2	72.9	1984	28	1957	28	61.4	1976	54	138	.0	1.0	31.0	.0	.1	.0
Nov	69.7	46.3	58.0	87+	1948	4	64.2	1973	18	1976	30	49.3	1976	245	36	.0	.0	29.0	.0	2.3	.0
Dec	62.3	39.6	51.0	83	1956	7	60.4	1984	4	1989	23	41.8	2000	449	12	.0	.0	27.3	.2	7.7	.0
Ann	77.2	54.8	66.0	108	Sep 2000	4	84.9	Aug 1999	4	Dec 1989	23	38.7	Jan 1977	1944	2329	.8	75.0	351.5	.8	27.8	.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: 1948-2001

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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	7.15	7.16	5.84	1950	6	18.38	1990	1.80	1981
Feb	5.65	5.16	7.65	1955	5	12.72	1997	.82	2000
Mar	7.03	6.06	6.65	1961	17	19.38	1973	2.80	1997
Apr	6.15	5.21	8.62	1983	6	14.06	1991	1.10	1999
May	5.79	5.55	8.88	1953	18	12.98	1994	.35	1998
Jun	5.54	5.24	7.01	1951	17	16.40	1989	1.39	1979
Jul	5.62	5.97	4.80	1994	27	11.93	1994	1.35	1991
Aug	4.59	4.19	4.07	1958	24	11.64	1992	1.06	1994
Sep	5.26	4.68	4.85	1971	16	12.35	1988	1.25	1995
Oct	3.71	3.05	6.00	1983	22	14.17	1985	.00	1989
Nov	5.43	5.09	8.05	1961	13	12.00	1986	.92	1999
Dec	6.30	5.17	7.75	1971	6	18.33	1971	2.72	1984
Ann	68.22	68.62	8.88	May 1953	18	19.38	Mar 1973	.00	Oct 1989

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.2	8.0	4.2	2.2
Feb	7.9	6.6	3.8	2.1
Mar	8.8	7.4	4.5	2.3
Apr	6.8	5.8	3.2	2.0
May	7.9	6.7	3.6	2.1
Jun	9.6	8.4	3.7	1.7
Jul	9.8	8.3	4.0	1.7
Aug	8.5	6.9	3.1	1.4
Sep	8.4	6.7	3.0	1.5
Oct	5.3	4.1	2.3	1.3
Nov	7.9	6.6	3.7	1.8
Dec	9.1	7.7	3.9	2.1
Ann	100.2	83.2	43.0	22.2

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	2.00	2.68	3.71	4.60	5.48	6.39	7.40	8.60	10.15	12.59	14.86
Feb	1.31	1.84	2.67	3.41	4.15	4.93	5.81	6.85	8.23	10.41	12.46
Mar	2.41	3.08	4.05	4.87	5.65	6.46	7.34	8.37	9.69	11.73	13.61
Apr	1.19	1.74	2.64	3.47	4.32	5.22	6.25	7.49	9.14	11.78	14.29
May	1.41	1.95	2.79	3.55	4.29	5.08	5.96	7.00	8.38	10.55	12.58
Jun	1.59	2.11	2.91	3.60	4.27	4.97	5.75	6.66	7.85	9.71	11.44
Jul	1.86	2.39	3.17	3.84	4.48	5.14	5.86	6.71	7.79	9.48	11.03
Aug	1.23	1.66	2.33	2.91	3.48	4.08	4.75	5.53	6.57	8.18	9.68
Sep	1.63	2.13	2.88	3.51	4.13	4.77	5.47	6.29	7.35	9.01	10.54
Oct	.38	.82	1.43	1.97	2.52	3.11	3.77	4.58	5.65	7.37	9.01
Nov	1.23	1.73	2.53	3.25	3.96	4.72	5.57	6.59	7.93	10.06	12.07
Dec	2.29	2.88	3.73	4.45	5.13	5.83	6.59	7.47	8.60	10.33	11.93
Ann	51.25	54.60	58.86	62.07	64.90	67.63	70.43	73.51	77.22	82.58	87.18

\+ 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	.0	0	0
Feb	#	.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
Dec	#	.0	0	0
Ann	.1	.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	1.8	1977	31	1.8+	1977	0	0	0	0	0
Feb	#	1989	7	#+	1989	#	1989	8	#	1989
Mar	.0	0	0	.0	0	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	28	#	1976	0	0	0	0	0
Dec	#	1977	28	#	1977	0	0	0	0	0
Ann	1.8	Jan 1977	31	1.8+	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	.1	.1	.0	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.0	.0	.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	.0
Dec	.0	.0	.0	.0	.0
Ann	.1	.1	.0	.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	4/12	4/05	4/01	3/28	3/24	3/20	3/16	3/12	3/05
32	3/25	3/19	3/14	3/09	3/05	3/02	2/25	2/20	2/13
28	3/12	3/04	2/26	2/21	2/16	2/12	2/07	2/01	1/24
24	3/04	2/21	2/13	2/07	1/31	1/25	1/18	1/10	12/28
20	2/20	2/10	2/02	1/25	1/17	1/05	0/00	0/00	0/00
16	1/28	1/17	1/05	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	10/26	10/31	11/04	11/08	11/11	11/14	11/17	11/21	11/27
32	11/02	11/09	11/13	11/17	11/21	11/24	11/28	12/03	12/09
28	11/18	11/25	11/29	12/03	12/07	12/11	12/15	12/20	12/26
24	11/22	12/05	12/14	12/22	12/29	1/05	1/13	1/23	2/07
20	12/11	12/23	1/01	1/09	1/18	2/01	0/00	0/00	0/00
16	1/01	1/15	1/30	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	254	246	241	236	231	226	222	216	208
32	287	278	271	265	260	254	248	241	232
28	321	311	304	299	293	288	282	275	266
24	>365	>365	343	333	324	317	310	302	291
20	>365	>365	>365	>365	>365	>365	346	326	308
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

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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	531	379	210	71	4	0	0	0	1	54	245	449	1944
60	390	252	110	20	0	0	0	0	0	16	147	314	1249
57	314	184	66	7	0	0	0	0	0	7	101	245	924
55	268	147	44	3	0	0	0	0	0	4	76	205	747
50	174	73	12	0	0	0	0	0	0	0	31	122	412
32	11	0	0	0	0	0	0	0	0	0	0	3	14

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	512	548	840	998	1270	1404	1534	1526	1345	1107	781	589	12454
55	56	50	170	311	557	714	821	813	655	398	167	78	4790
57	40	32	131	255	495	654	759	751	595	339	132	56	4239
60	24	15	82	178	402	564	666	658	505	256	88	33	3471
65	0	2	27	79	251	414	511	503	356	138	36	12	2329
70	0	0	6	21	121	264	356	348	215	56	12	1	1400

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	331	401	630	784	1036	1170	1282	1273	1104	857	568	385	331	732	1362	2146	3182	4352	5634	6907	8011	8868	9436	9821
45	214	278	482	634	881	1020	1127	1118	954	702	422	260	214	492	974	1608	2489	3509	4636	5754	6708	7410	7832	8092
50	128	171	339	485	726	870	972	963	804	547	289	159	128	299	638	1123	1849	2719	3691	4654	5458	6005	6294	6453
55	63	95	210	341	571	720	817	808	654	397	179	86	63	158	368	709	1280	2000	2817	3625	4279	4676	4855	4941
60	27	44	110	207	416	570	662	653	504	258	98	41	27	71	181	388	804	1374	2036	2689	3193	3451	3549	3590
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	204	246	397	512	714	814	889	879	760	567	354	236	204	450	847	1359	2073	2887	3776	4655	5415	5982	6336	6572

(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