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: KIPLING 3 NW, MS **COOP ID: 224702**

Climate Division: MS 6 **NWS Call Sign:** **Elevation: 377 Feet** **Lat: 32˚43N** **Lon: 88˚40W**

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	55.0	31.7	43.4	82+	1949	11	52.8	1974	-4	1962	12	32.9	1977	675	0	.0	.0	22.1	.7	17.0	.1
Feb	59.8	34.1	47.0	85	1962	27	53.4	1990	1	1951	2	37.7	1978	504	0	.0	.0	23.3	.4	11.9	.0
Mar	68.1	41.3	54.7	90	1995	22	61.8	1974	10	1980	3	49.2	1996	333	13	.0	@	29.9	.0	6.8	.0
Apr	75.3	48.7	62.0	94	1987	21	67.6	1981	26+	1973	11	58.1	1997	126	36	.0	.2	30.0	.0	1.3	.0
May	82.2	57.9	70.1	99	1951	31	73.0	1987	35	1971	4	64.9	1976	19	175	.0	2.3	31.0	.0	.0	.0
Jun	88.8	65.2	77.0	102	1954	28	79.8	1981	41	1956	3	73.8	1974	0	359	.1	14.1	30.0	.0	.0	.0
Jul	91.3	69.2	80.3	104+	1980	14	83.1	1980	50+	1950	1	77.6	1994	0	473	.7	20.7	31.0	.0	.0	.0
Aug	91.4	68.2	79.8	104+	1951	31	82.5	1999	50	1968	30	75.7	1992	0	459	.8	20.8	31.0	.0	.0	.0
Sep	86.4	62.0	74.2	103	1951	1	79.4	1980	33	1967	30	70.9	1975	7	283	.3	10.6	30.0	.0	.0	.0
Oct	77.0	49.1	63.1	98	1954	5	69.9	1984	18	1952	30	57.6	1987	134	73	.0	.9	30.9	.0	1.4	.0
Nov	66.9	40.7	53.8	85+	1955	13	60.8	1985	13	1950	25	45.9	1976	350	14	.0	.0	28.6	.0	7.5	.0
Dec	58.1	34.5	46.3	82+	1951	6	55.1	1984	0	1989	23	37.6	2000	582	3	.0	.0	24.8	.3	13.5	@
Ann	75.0	50.2	62.6	104+	Jul 1980	14	83.1	Jul 1980	-4	Jan 1962	12	32.9	Jan 1977	2730	1888	1.9	69.6	342.6	1.4	59.4	.1

\+ 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: 1948-2000

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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	5.70	5.56	5.20	1950	6	12.13	1990	1.06	1986
Feb	4.98	4.41	5.15	1990	16	10.93	1990	1.34	1976
Mar	6.47	6.07	4.53	1979	3	17.59	1976	1.87	1992
Apr	5.67	4.64	6.25	1974	12	16.63	1979	.51	1976
May	4.88	3.33	4.56	1983	16	12.75	1989	.16	2000
Jun	4.10	3.31	3.65	1974	6	12.31	1989	.95	1988
Jul	4.76	4.72	3.68	1952	2	9.77+	1984	.45	1993
Aug	3.01	2.61	3.60	1992	27	10.55	1992	.25	1980
Sep	3.31	3.05	4.77	1979	13	9.40	1979	.51+	1990
Oct	3.16	2.64	4.56	1977	25	8.37	1985	.02	1987
Nov	4.48	4.05	4.47	1948	28	10.34	1986	.57	1999
Dec	5.11	4.23	6.00	1994	5	11.53	1973	1.04	1980
Ann	55.63	52.98	6.25	Apr 1974	12	17.59	Mar 1976	.02	Oct 1987

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.8	8.2	4.0	1.7
Feb	8.6	6.3	3.6	1.9
Mar	9.8	7.8	4.4	2.3
Apr	7.9	5.9	3.1	2.1
May	9.3	6.6	3.0	1.3
Jun	9.3	7.1	2.9	1.1
Jul	9.9	7.2	3.4	1.5
Aug	8.8	5.7	2.0	.7
Sep	7.1	4.8	2.1	.8
Oct	5.8	4.2	1.9	1.0
Nov	8.4	6.3	3.3	1.7
Dec	9.1	6.9	3.4	1.6
Ann	104.8	77.0	37.1	17.7

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	1.91	2.45	3.24	3.91	4.56	5.22	5.94	6.79	7.88	9.56	11.12
Feb	1.56	2.03	2.73	3.33	3.91	4.52	5.18	5.96	6.96	8.52	9.97
Mar	2.06	2.68	3.59	4.36	5.11	5.89	6.74	7.74	9.03	11.03	12.88
Apr	1.06	1.56	2.40	3.17	3.95	4.79	5.75	6.91	8.46	10.93	13.29
May	.73	1.14	1.84	2.52	3.22	3.99	4.88	5.96	7.42	9.79	12.07
Jun	1.10	1.49	2.09	2.61	3.12	3.65	4.24	4.95	5.87	7.30	8.64
Jul	1.14	1.58	2.28	2.90	3.52	4.17	4.90	5.77	6.91	8.71	10.41
Aug	.71	.99	1.43	1.82	2.22	2.63	3.10	3.65	4.38	5.53	6.62
Sep	.64	.94	1.43	1.87	2.33	2.81	3.37	4.03	4.91	6.33	7.68
Oct	.30	.53	.95	1.39	1.87	2.41	3.06	3.86	4.96	6.79	8.59
Nov	1.10	1.52	2.17	2.75	3.33	3.94	4.61	5.42	6.48	8.15	9.71
Dec	1.66	2.14	2.86	3.47	4.05	4.66	5.32	6.10	7.10	8.66	10.09
Ann	37.84	41.23	45.60	48.94	51.92	54.82	57.82	61.15	65.21	71.12	76.26

\+ 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: 1948-2000
(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	.6	.0	#	0
Feb	#	.0	#	0
Mar	.3	.0	#	0
Apr	.1	.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	.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	3.5	1977	31	5.5	1977	4	1982	14	#+	2000
Feb	#	1989	23	#+	1989	#+	1989	23	#+	1989
Mar	6.0	1993	13	6.0	1993	6	1993	13	#+	1993
Apr	2.0	1987	3	2.0	1987	2	1987	3	#	1987
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	#	1975	23	#+	1975	0	0	0	0	0
Dec	.5	1973	20	.5	1973	1	1973	20	#	1973
Ann	6.0	Mar 1993	13	6.0	Mar 1993	6	Mar 1993	13	#+	Jan 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.4	.3	.1	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.1	@	@	@	.0
Apr	.1	.1	.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
Ann	.6	.4	.1	@	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.3	.1	.0	.0
Feb	.0	.0	.0	.0
Mar	.1	.1	@	.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	.0	.0	.0	.0
Dec	@	.0	.0	.0
Ann	.4	.2	@	.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	4/21	4/18	4/16	4/13	4/11	4/07	4/03
32	4/16	4/13	4/10	4/07	4/05	4/03	3/31	3/29	3/25
28	4/06	4/01	3/28	3/24	3/21	3/17	3/14	3/10	3/04
24	3/18	3/11	3/06	3/02	2/26	2/21	2/17	2/12	2/05
20	3/10	3/02	2/25	2/20	2/16	2/12	2/07	2/02	1/25
16	3/03	2/22	2/15	2/09	2/03	1/28	1/20	1/05	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	10/08	10/11	10/13	10/15	10/18	10/20	10/23	10/27
32	10/10	10/16	10/20	10/23	10/26	10/29	11/02	11/06	11/11
28	10/27	11/02	11/06	11/10	11/13	11/17	11/20	11/25	11/30
24	11/09	11/16	11/22	11/26	11/30	12/04	12/09	12/14	12/21
20	11/23	12/02	12/08	12/13	12/18	12/22	12/27	1/02	1/11
16	12/02	12/14	12/23	12/31	1/07	1/16	1/26	2/15	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	199	193	189	185	182	178	175	170	165
32	219	213	210	206	203	200	197	193	188
28	263	254	248	242	237	232	226	220	211
24	305	295	288	282	277	271	265	258	249
20	331	318	311	305	300	295	290	284	276
16	>365	>365	>365	>365	339	326	316	306	293

***** 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	675	504	333	126	19	0	0	0	7	134	350	582	2730
60	530	370	208	48	2	0	0	0	1	62	227	439	1887
57	446	292	148	22	0	0	0	0	0	34	167	358	1467
55	393	244	115	12	0	0	0	0	0	21	133	308	1226
50	275	143	51	2	0	0	0	0	0	6	65	202	744
32	33	3	0	0	0	0	0	0	0	0	0	15	51

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	385	423	703	900	1179	1349	1496	1482	1266	962	654	459	11258
55	32	19	105	222	466	659	783	769	576	271	97	39	4038
57	23	12	77	172	404	599	721	707	516	222	71	27	3551
60	14	6	43	108	313	509	628	614	427	156	41	16	2875
65	0	0	13	36	175	359	473	459	283	73	14	3	1888
70	0	0	2	7	73	212	318	304	158	25	2	0	1101

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	204	292	503	682	954	1116	1247	1227	1037	726	440	272	204	496	999	1681	2635	3751	4998	6225	7262	7988	8428	8700
45	121	188	359	532	799	966	1092	1072	887	571	307	169	121	309	668	1200	1999	2965	4057	5129	6016	6587	6894	7063
50	64	108	235	386	644	816	937	917	737	420	195	98	64	172	407	793	1437	2253	3190	4107	4844	5264	5459	5557
55	28	53	129	252	489	666	782	762	587	279	109	50	28	81	210	462	951	1617	2399	3161	3748	4027	4136	4186
60	5	17	63	138	337	516	627	607	440	163	50	24	5	22	85	223	560	1076	1703	2310	2750	2913	2963	2987
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	143	196	335	449	638	765	855	834	700	485	292	182	143	339	674	1123	1761	2526	3381	4215	4915	5400	5692	5874

(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:
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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