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: KOSCIUSKO, MS **COOP ID: 224776**

Climate Division: MS 5 **NWS Call Sign:** **Elevation: 410 Feet** **Lat: 33˚03N** **Lon: 89˚36W**

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	53.8	32.7	43.3	82	1949	11	52.2	1974	-3	1962	12	33.7	1977	675	0	.0	.0	20.1	1.6	18.2	.1
Feb	59.2	35.4	47.3	84	1977	26	54.5	1976	-4	1951	2	38.0	1978	496	0	.0	.0	21.8	.7	14.0	.0
Mar	67.6	41.9	54.8	90	1995	24	61.6	1985	10	1980	2	48.9	1996	334	15	.0	@	28.9	@	6.8	.0
Apr	75.0	48.9	62.0	94	1987	22	68.4	1981	24	1987	3	56.4	1983	142	50	.0	.2	29.9	.0	1.1	.0
May	81.8	58.6	70.2	97	1951	31	74.0	1987	38	1966	10	65.5	1976	24	185	.0	2.4	31.0	.0	.0	.0
Jun	88.8	66.3	77.6	103	1964	23	80.6	1981	41	1984	1	73.7	1974	0	375	.1	14.8	30.0	.0	.0	.0
Jul	91.7	70.2	81.0	107	1952	25	85.3	1980	53	1967	15	78.5	1972	0	494	.6	22.6	31.0	.0	.0	.0
Aug	91.7	69.1	80.4	105+	1951	31	83.9	1980	52	1992	30	77.3	1992	0	477	.8	22.9	31.0	.0	.0	.0
Sep	86.6	62.9	74.8	106	1951	1	80.9	1980	39+	1967	30	69.9	1975	8	300	.4	11.6	30.0	.0	.0	.0
Oct	76.8	50.1	63.5	97	1954	5	69.1	1984	20	1952	30	58.3	1987	121	72	.0	.8	31.0	.0	1.0	.0
Nov	65.9	41.5	53.7	88	1984	1	60.5	1985	12	1950	25	46.2	1976	350	10	.0	.0	28.0	@	7.9	.0
Dec	56.7	35.5	46.1	84	1951	7	55.3	1984	0	1989	23	35.3	2000	592	5	.0	.0	22.6	.7	15.7	@
Ann	74.6	51.1	62.9	107	Jul 1952	25	85.3	Jul 1980	-4	Feb 1951	2	33.7	Jan 1977	2742	1983	1.9	75.3	335.3	3.0	64.7	.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: 1948-2001

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

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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	6.29	5.54	5.16	1950	6	16.26	1974	.58	1986
Feb	4.94	4.76	4.00	1951	1	9.49	1983	1.47	2000
Mar	6.68	5.92	8.12	1951	28	17.11	1980	3.26	1987
Apr	5.79	4.71	9.97	2001	4	18.34	1991	1.37	1986
May	5.36	5.06	5.00	1983	19	15.03	1983	1.35	1992
Jun	3.69	3.32	3.85	1982	1	8.72	1992	.45	1984
Jul	5.45	4.84	4.85	1951	14	13.59	1971	1.27	1978
Aug	3.55	3.47	5.40	1964	16	7.24	1985	.47	1990
Sep	3.55	2.93	3.85	2001	1	9.41	1979	.35	1984
Oct	3.71	3.30	4.07	1980	28	7.88	1986	.05	1978
Nov	5.58	4.75	4.85	2000	8	12.55	2000	.77	1999
Dec	5.79	4.84	5.23	1956	12	18.06	1982	1.39	1980
Ann	60.38	58.99	9.97	Apr 2001	4	18.34	Apr 1991	.05	Oct 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.2	7.9	4.4	2.0
Feb	7.2	6.2	3.4	1.9
Mar	9.2	7.7	4.3	2.2
Apr	7.4	6.0	3.6	2.1
May	8.4	7.1	3.7	1.8
Jun	7.7	6.0	2.4	.9
Jul	9.6	7.8	3.7	1.4
Aug	6.9	5.4	2.6	.9
Sep	6.3	5.0	2.2	1.0
Oct	5.5	4.6	2.5	1.4
Nov	8.0	6.5	3.9	1.9
Dec	9.1	7.4	4.0	2.1
Ann	94.5	77.6	40.7	19.6

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	1.61	2.21	3.12	3.93	4.72	5.56	6.49	7.60	9.04	11.32	13.45
Feb	1.70	2.17	2.85	3.43	3.98	4.54	5.16	5.88	6.80	8.23	9.54
Mar	2.86	3.47	4.31	5.00	5.65	6.30	7.00	7.81	8.82	10.37	11.78
Apr	1.03	1.54	2.39	3.18	3.99	4.86	5.86	7.07	8.67	11.26	13.74
May	1.58	2.09	2.86	3.52	4.16	4.83	5.57	6.44	7.56	9.32	10.96
Jun	.68	1.01	1.55	2.05	2.56	3.11	3.74	4.50	5.50	7.12	8.66
Jul	1.69	2.20	2.98	3.64	4.28	4.94	5.67	6.53	7.64	9.37	10.97
Aug	.97	1.31	1.82	2.26	2.70	3.16	3.67	4.27	5.06	6.29	7.43
Sep	.73	1.05	1.58	2.05	2.53	3.04	3.62	4.32	5.24	6.71	8.10
Oct	.41	.69	1.20	1.72	2.28	2.90	3.63	4.53	5.76	7.80	9.78
Nov	1.47	2.00	2.81	3.52	4.22	4.96	5.77	6.74	8.00	9.99	11.84
Dec	1.79	2.34	3.16	3.86	4.54	5.25	6.02	6.94	8.11	9.95	11.65
Ann	41.61	45.20	49.83	53.35	56.50	59.54	62.70	66.20	70.45	76.64	82.01

\+ 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	1.6	.0	#	0
Feb	.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	0
Dec	.6	.0	#	0
Ann	2.3	.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	4.0	1977	3	11.5	1977	4	1977	31	1	1977
Feb	.5	1997	10	.5	1997	#	1978	21	#	1978
Mar	1.0	1978	10	1.0	1978	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	.0	0	0	.0	0	0	0	0	0	0
Dec	5.2	1997	15	5.2	1997	#	2000	29	#	2000
Ann	5.2	Dec 1997	15	11.5	Jan 1977	4	Jan 1977	31	1	Jan 1977

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.6	.5	.3	.0	.0
Feb	.1	.0	.0	.0	.0
Mar	.1	.1	.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	.2	.2	.1	.1	.0
Ann	1.0	.8	.4	.1	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.2	.1	.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	.2	.1	.0	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	4/23	4/18	4/15	4/12	4/10	4/07	4/05	4/01	3/28
32	4/15	4/09	4/04	4/01	3/28	3/24	3/20	3/16	3/10
28	4/02	3/26	3/20	3/16	3/11	3/07	3/02	2/25	2/17
24	3/19	3/12	3/06	3/02	2/25	2/21	2/16	2/10	2/03
20	3/13	3/03	2/24	2/18	2/13	2/07	2/01	1/25	1/16
16	2/27	2/17	2/10	2/04	1/28	1/21	1/11	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	10/03	10/08	10/12	10/15	10/18	10/20	10/23	10/27	11/01
32	10/19	10/24	10/28	10/31	11/03	11/06	11/09	11/13	11/18
28	11/03	11/08	11/12	11/15	11/18	11/21	11/25	11/29	12/04
24	11/08	11/17	11/24	11/30	12/05	12/10	12/16	12/23	1/01
20	11/20	12/02	12/11	12/18	12/25	1/01	1/08	1/17	1/29
16	12/04	12/17	12/26	1/03	1/12	1/21	2/03	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	209	202	198	194	190	186	182	178	171
32	242	234	229	224	219	215	210	204	196
28	280	270	263	257	251	246	240	233	223
24	315	304	296	289	282	276	268	260	249
20	>365	333	322	315	308	302	295	287	277
16	>365	>365	>365	>365	353	334	322	311	298

***** 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)

Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	675	496	334	142	24	0	0	0	8	121	350	592	2742
60	533	363	210	64	5	0	0	0	1	51	223	447	1897
57	448	286	151	34	1	0	0	0	0	26	162	366	1474
55	394	238	118	21	0	0	0	0	0	15	127	316	1229
50	275	139	52	5	0	0	0	0	0	3	60	210	744
32	32	3	0	0	0	0	0	0	0	0	0	17	52

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	380	431	704	898	1184	1365	1517	1500	1282	975	650	454	11340
55	29	22	109	229	471	675	804	787	592	277	88	40	4123
57	21	13	80	182	410	615	742	725	532	226	62	28	3636
60	12	6	46	122	320	525	649	632	443	158	34	16	2963
65	0	0	15	50	185	375	494	477	300	72	10	5	1983
70	0	0	3	13	83	229	339	323	176	25	0	0	1191

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	178	253	465	658	932	1116	1258	1236	1032	713	407	227	178	431	896	1554	2486	3602	4860	6096	7128	7841	8248	8475
45	100	158	328	509	777	966	1103	1081	882	559	279	137	100	258	586	1095	1872	2838	3941	5022	5904	6463	6742	6879
50	50	85	208	363	622	816	948	926	732	410	172	74	50	135	343	706	1328	2144	3092	4018	4750	5160	5332	5406
55	24	40	117	231	467	666	793	771	582	268	97	36	24	64	181	412	879	1545	2338	3109	3691	3959	4056	4092
60	2	12	53	128	315	517	638	616	433	158	42	12	2	14	67	195	510	1027	1665	2281	2714	2872	2914	2926
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	119	173	305	424	619	761	857	835	689	476	272	154	119	292	597	1021	1640	2401	3258	4093	4782	5258	5530	5684

(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