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: SIKESTON POWER STATION, MO **COOP ID: 237772**

Climate Division: MO 6 **NWS Call Sign:** **Elevation: 310 Feet** **Lat: 36˚53N** **Lon: 89˚37W**

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	41.2	24.4	32.8	73	1967	24	42.6	1989	-10	1977	11	19.9	1977	998	0	.0	.0	7.4	7.0	24.0	1.1
Feb	46.8	28.6	37.7	78	1996	28	45.1	1976	-12	1951	2	24.1	1978	764	0	.0	.0	11.9	4.2	17.9	.2
Mar	57.6	37.5	47.6	83	1989	28	53.6	1973	-4	1960	5	40.7	1996	543	3	.0	.0	23.7	.5	10.6	.0
Apr	68.5	46.6	57.6	92	1989	27	64.3	1981	24	1960	10	51.3	1983	246	23	.0	.2	28.9	.0	1.8	.0
May	78.2	56.7	67.5	98	1996	25	73.6	1987	31	1976	5	62.9	1976	72	148	.0	2.3	31.0	.0	@	.0
Jun	86.9	65.4	76.2	106+	1953	20	79.1	1971	46	1956	2	71.4	1974	2	335	.3	11.4	30.0	.0	.0	.0
Jul	90.9	69.4	80.2	107+	1980	17	84.9	1980	48	1962	27	77.1	1971	0	469	1.7	19.5	31.0	.0	.0	.0
Aug	89.0	66.6	77.8	106	1964	4	83.4	1980	41	1965	29	73.3	1992	1	397	1.1	13.7	31.0	.0	.0	.0
Sep	82.0	58.8	70.4	102+	1954	5	76.2	1998	35	1967	28	64.6	1974	31	194	@	5.6	30.0	.0	.0	.0
Oct	71.7	46.7	59.2	94	1953	2	66.2	1971	19	1952	29	52.4	1988	217	37	.0	.2	30.8	.0	1.6	.0
Nov	57.2	37.8	47.5	84	1987	1	52.8	1999	2+	1950	25	39.1	1976	527	1	.0	.0	22.1	.2	9.4	.0
Dec	45.4	28.6	37.0	74	1951	31	45.4	1984	-12	1989	23	24.7	2000	868	0	.0	.0	10.7	3.7	20.5	.3
Ann	68.0	47.3	57.6	107+	Jul 1980	17	84.9	Jul 1980	-12+	Dec 1989	23	19.9	Jan 1977	4269	1607	3.1	52.9	288.5	15.6	85.8	1.6

\+ 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: 1950-2001

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

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	3.27	3.18	4.65	1969	30	6.66	1982	.49	1986
Feb	3.54	3.45	2.97	1951	20	8.00	1990	1.18	1978
Mar	4.56	4.08	5.00	1964	9	11.05	1975	1.53	1971
Apr	4.56	4.29	2.89	1970	24	9.59	1979	1.41	1976
May	4.60	4.44	3.50	1961	6	11.27	1983	1.95	1992
Jun	4.22	4.02	4.48	1957	30	9.59	1989	.76	1979
Jul	3.59	2.83	4.00	1988	19	8.20	1987	.56	1999
Aug	3.00	2.54	4.06	1962	25	7.18	1975	.60	2000
Sep	3.37	3.07	5.92	1965	11	9.21	1988	.16	1999
Oct	3.12	2.97	4.40+	1992	16	6.27	1972	1.13	1974
Nov	4.69	4.83	4.80	1957	13	8.65	1973	.73	1976
Dec	4.14	3.42	4.20	2001	16	13.24	1982	1.06	1976
Ann	46.66	46.84	5.92	Sep 1965	11	13.24	Dec 1982	.16	Sep 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.4	5.7	2.2	.9
Feb	8.0	6.0	2.5	1.1
Mar	10.7	7.6	3.3	1.2
Apr	10.3	7.6	3.2	1.4
May	10.5	7.4	2.8	1.1
Jun	9.4	6.8	2.5	.9
Jul	7.9	5.6	2.5	.9
Aug	7.1	4.9	2.0	.8
Sep	6.9	5.3	2.3	.9
Oct	7.6	5.1	2.4	.9
Nov	9.5	7.2	3.4	1.5
Dec	9.6	7.2	3.0	1.3
Ann	105.9	76.4	32.1	12.9

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	.74	1.04	1.52	1.95	2.38	2.84	3.36	3.97	4.78	6.07	7.29
Feb	1.30	1.63	2.11	2.51	2.89	3.28	3.70	4.19	4.82	5.79	6.67
Mar	1.62	2.05	2.67	3.20	3.70	4.21	4.77	5.42	6.25	7.53	8.71
Apr	1.62	2.05	2.67	3.20	3.70	4.21	4.77	5.42	6.25	7.53	8.71
May	1.80	2.23	2.83	3.33	3.81	4.29	4.81	5.42	6.19	7.36	8.44
Jun	1.38	1.78	2.37	2.87	3.35	3.85	4.40	5.04	5.86	7.13	8.30
Jul	.72	1.05	1.57	2.06	2.54	3.07	3.66	4.37	5.31	6.81	8.24
Aug	.78	1.06	1.50	1.88	2.26	2.66	3.10	3.62	4.31	5.38	6.39
Sep	.47	.75	1.23	1.70	2.19	2.73	3.35	4.11	5.14	6.82	8.44
Oct	1.22	1.51	1.92	2.26	2.59	2.91	3.27	3.68	4.20	5.00	5.73
Nov	1.28	1.72	2.40	2.99	3.57	4.18	4.86	5.66	6.69	8.33	9.85
Dec	1.05	1.44	2.04	2.57	3.10	3.65	4.27	5.00	5.96	7.47	8.89
Ann	34.33	36.75	39.83	42.16	44.22	46.21	48.25	50.51	53.23	57.17	60.55

\+ 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: 1950-2001
(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	.5	#	#	0
Feb	2.4	1.5	#	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	.1	.0	#	0
Nov	.0	.0	#	0
Dec	.4	.0	#	0
Ann	3.5	1.5	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	2.0	1981	30	2.0	1981	3	1988	6	2	1979
Feb	7.0	1993	16	7.5	1979	8	1993	16	3	1979
Mar	1.5	1980	1	1.5	1980	2	1980	1	#+	1989
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	2.0	1993	30	2.0	1993	2	1993	30	#	1993
Nov	.0	0	0	.0	0	#	1976	27	#	1976
Dec	4.0	2000	12	4.0	2000	#	1987	13	#	1987
Ann	7.0	Feb 1993	16	7.5	Feb 1979	8	Feb 1993	16	3	Feb 1979

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.4	.3	.0	.0	.0
Feb	1.0	1.0	.5	.1	.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	.1	.1	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.3	.2	.1	.0	.0
Ann	1.9	1.7	.6	.1	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.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	.1	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	.2	.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	4/25	4/21	4/18	4/15	4/12	4/10	4/07	4/04	3/30
32	4/19	4/13	4/09	4/05	4/02	3/30	3/26	3/22	3/17
28	4/05	3/31	3/27	3/24	3/21	3/18	3/15	3/12	3/07
24	3/24	3/17	3/13	3/09	3/05	3/01	2/25	2/21	2/14
20	3/14	3/07	3/02	2/25	2/21	2/17	2/13	2/07	1/31
16	3/08	2/28	2/23	2/18	2/14	2/09	2/04	1/30	1/22

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

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	194	190	187	184	181	177	174	169
32	230	222	217	212	207	203	198	192	184
28	259	251	245	240	235	231	226	220	212
24	288	280	274	269	264	260	255	249	241
20	320	309	301	295	288	282	275	267	257
16	346	329	321	313	307	301	295	287	277

***** 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	998	764	543	246	72	2	0	1	31	217	527	868	4269
60	843	625	400	140	27	0	0	0	7	118	386	713	3259
57	752	548	320	91	13	0	0	0	3	75	307	627	2736
55	698	495	271	65	7	0	0	0	1	53	258	569	2417
50	553	370	170	23	1	0	0	0	0	17	157	430	1721
32	165	75	9	0	0	0	0	0	0	0	7	92	348

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	190	235	491	766	1099	1323	1492	1419	1153	843	471	247	9729
55	9	12	41	141	394	633	779	706	464	183	33	11	3406
57	2	8	27	107	337	573	717	644	405	143	21	8	2992
60	0	2	15	66	258	483	624	551	320	93	11	0	2423
65	0	0	3	23	148	335	469	397	194	37	1	0	1607
70	0	0	0	5	70	195	314	251	97	10	0	0	942

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	51	112	283	538	859	1099	1254	1182	925	602	268	83	51	163	446	984	1843	2942	4196	5378	6303	6905	7173	7256
45	23	59	180	394	704	949	1099	1027	775	447	168	37	23	82	262	656	1360	2309	3408	4435	5210	5657	5825	5862
50	6	21	97	268	550	799	944	872	625	310	93	10	6	27	124	392	942	1741	2685	3557	4182	4492	4585	4595
55	0	4	44	155	397	649	789	717	475	189	43	4	0	4	48	203	600	1249	2038	2755	3230	3419	3462	3466
60	0	0	13	81	257	499	634	562	335	99	14	0	0	0	13	94	351	850	1484	2046	2381	2480	2494	2494
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	29	67	164	323	552	750	858	809	610	378	155	45	29	96	260	583	1135	1885	2743	3552	4162	4540	4695	4740

(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