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: LEXINGTON 2 NNW, MS **COOP ID: 225062**

Climate Division: MS 5 **NWS Call Sign:** **Elevation: 315 Feet** **Lat: 33˚08N** **Lon: 90˚04W**

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	54.1	32.7	43.4	81	1972	24	50.6	1989	-8	1962	12	33.1	1977	674	0	.0	.0	20.4	1.3	16.0	.1
Feb	59.9	36.0	48.0	84+	1977	25	55.1	1976	2	1996	5	37.4	1978	478	0	.0	.0	22.5	.5	11.3	.0
Mar	67.9	43.2	55.6	90	1963	17	61.3	1974	9	1996	9	51.2	1980	304	12	.0	.0	29.5	.1	5.9	.0
Apr	74.9	49.0	62.0	91	1987	21	68.6	1981	22	1987	4	56.9	1983	136	44	.0	@	29.9	.0	1.6	.0
May	81.7	57.7	69.7	96	2001	15	74.2	1987	36	1971	4	65.4	1976	25	171	.0	1.9	31.0	.0	.0	.0
Jun	88.1	64.9	76.5	103+	1954	28	79.9	1998	44+	1966	1	73.0	1974	0	346	@	12.7	30.0	.0	.0	.0
Jul	90.8	68.7	79.8	104+	1954	1	83.2	1980	49	1967	15	77.1	1994	0	457	.5	20.9	31.0	.0	.0	.0
Aug	90.9	67.5	79.2	107	2000	30	83.3	2000	50	1968	28	74.7	1992	0	439	.7	20.7	31.0	.0	.0	.0
Sep	86.0	61.7	73.9	104+	2000	1	78.6	1972	34	1967	29	69.2	1974	10	274	.2	9.7	30.0	.0	.0	.0
Oct	76.8	49.7	63.3	96+	1954	3	69.8	1984	24	1957	28	57.1	1976	133	78	.0	.7	30.9	.0	1.2	.0
Nov	65.9	41.1	53.5	89+	1974	1	59.4	1985	13+	1970	24	44.5	1976	354	9	.0	.0	28.3	@	7.1	.0
Dec	56.9	35.1	46.0	87	1982	2	56.7	1984	-4	1989	24	36.3	2000	596	7	.0	.0	22.9	.6	13.7	.1
Ann	74.5	50.6	62.6	107	Aug 2000	30	83.3	Aug 2000	-8	Jan 1962	12	33.1	Jan 1977	2710	1837	1.4	66.6	337.4	2.5	56.8	.2

\+ 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	5.78	5.10	4.80	1979	20	14.69	1974	.66	1986
Feb	4.79	4.31	5.90	1966	10	11.79	1997	1.08	1999
Mar	6.13	5.91	4.56	1997	3	12.64	1980	1.99	1985
Apr	5.56	4.94	6.30	1970	26	15.81	1991	.30	1976
May	5.21	5.16	5.30	1967	22	12.09	1978	.97+	1992
Jun	4.30	3.95	5.70	1997	10	10.05	1989	.78	1984
Jul	3.77	3.01	4.25	1967	6	12.17	1971	.32	2000
Aug	2.89	2.19	5.15	1964	16	11.05	1975	.00	1980
Sep	2.97	2.68	4.22	1964	29	6.57	1994	.50	1984
Oct	3.55	2.74	5.95	1975	17	9.48	1984	.00	1978
Nov	5.42	4.83	5.80	2000	9	12.55	2000	1.32	1981
Dec	5.86	5.03	4.80	1969	30	15.61	1982	.85	1984
Ann	56.23	55.67	6.30	Apr 1970	26	15.81	Apr 1991	.00+	Aug 1980

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.0	7.7	3.9	1.8
Feb	6.6	5.9	3.0	1.6
Mar	8.5	7.4	4.0	2.3
Apr	6.5	5.7	3.4	2.1
May	8.2	7.1	3.6	1.7
Jun	7.2	6.0	2.7	1.4
Jul	6.5	5.4	2.3	1.0
Aug	5.6	4.9	1.8	.8
Sep	5.6	4.7	2.0	1.0
Oct	5.0	4.3	2.4	1.2
Nov	7.7	6.5	3.5	1.5
Dec	7.9	7.0	3.8	2.1
Ann	84.3	72.6	36.4	18.5

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	1.47	2.02	2.86	3.60	4.33	5.11	5.96	6.98	8.32	10.42	12.39
Feb	1.21	1.66	2.36	2.97	3.58	4.22	4.94	5.79	6.90	8.66	10.30
Mar	2.77	3.31	4.07	4.67	5.24	5.81	6.42	7.12	8.00	9.34	10.54
Apr	.89	1.37	2.18	2.94	3.74	4.60	5.58	6.79	8.40	11.01	13.51
May	1.52	2.02	2.76	3.40	4.03	4.68	5.41	6.25	7.35	9.07	10.67
Jun	1.21	1.62	2.24	2.77	3.30	3.85	4.46	5.17	6.10	7.56	8.93
Jul	.59	.92	1.46	1.98	2.52	3.11	3.78	4.60	5.70	7.49	9.20
Aug	.30	.64	1.12	1.54	1.97	2.42	2.94	3.57	4.40	5.73	7.01
Sep	.65	.92	1.36	1.75	2.15	2.57	3.04	3.60	4.35	5.54	6.66
Oct	.27	.65	1.23	1.75	2.29	2.88	3.56	4.39	5.50	7.31	9.06
Nov	1.69	2.21	2.97	3.63	4.26	4.92	5.64	6.49	7.58	9.29	10.87
Dec	1.48	2.03	2.88	3.64	4.39	5.17	6.05	7.09	8.45	10.60	12.61
Ann	39.93	43.08	47.12	50.19	52.91	55.55	58.27	61.28	64.92	70.22	74.79

+ 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	.6	.0	#	0
Feb	.1	.0	#	0
Mar	#	.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
Nov	#	.0	0	0
Dec	#	.0	#	0
Ann	.7	.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	1992	19	4.0	1992	4	1978	19	#+	1996
Feb	1.0	1971	8	1.0	1971	3	1985	3	#+	1989
Mar	#	1996	20	#+	1996	#	1996	20	#	1996
Apr	.8	1987	3	.8	1987	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	#	1993	31	#	1993	0	0	0	0	0
Nov	#	1992	28	#+	1992	0	0	0	0	0
Dec	#	1990	23	#+	1990	#	1990	24	#	1990
Ann	4.0	Jan 1992	19	4.0	Jan 1992	4	Jan 1978	19	#+	Mar 1996

Mean Number of Days (1)

Snow Fall >= Thresholds

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

Snow Depth >= Thresholds

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

@ 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	4/13	4/11	4/08	4/05	4/01
32	4/19	4/14	4/11	4/08	4/05	4/03	3/31	3/27	3/22
28	4/07	3/31	3/27	3/23	3/19	3/15	3/11	3/07	2/28
24	3/18	3/11	3/05	3/01	2/25	2/20	2/16	2/10	2/03
20	3/14	3/04	2/25	2/19	2/14	2/08	2/03	1/27	1/17
16	3/03	2/22	2/15	2/09	2/04	1/29	1/22	1/13	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	10/05	10/10	10/13	10/16	10/18	10/21	10/23	10/26	10/31
32	10/12	10/18	10/22	10/26	10/30	11/02	11/06	11/10	11/16
28	10/29	11/03	11/07	11/10	11/14	11/17	11/20	11/24	11/29
24	11/06	11/14	11/19	11/23	11/28	12/02	12/06	12/12	12/19
20	11/17	11/26	12/02	12/08	12/13	12/18	12/24	12/30	1/08
16	11/25	12/07	12/16	12/24	1/01	1/08	1/17	1/30	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	200	196	193	190	187	185	182	179	174
32	230	222	216	211	207	202	197	191	183
28	265	256	250	244	239	234	228	221	212
24	305	295	287	281	275	270	264	256	246
20	335	319	310	303	297	291	285	278	268
16	>365	>365	>365	340	327	317	308	298	285

***** 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	674	478	304	136	25	0	0	0	10	133	354	596	2710
60	530	346	179	58	4	0	0	0	2	61	227	451	1858
57	446	271	122	28	1	0	0	0	0	33	164	370	1435
55	394	225	90	16	0	0	0	0	0	21	129	320	1195
50	277	132	33	3	0	0	0	0	0	5	61	215	726
32	36	3	0	0	0	0	0	0	0	0	0	19	58

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	389	450	731	898	1169	1336	1480	1462	1254	969	645	453	11236
55	34	27	107	224	457	646	767	749	564	276	84	41	3976
57	25	17	77	176	396	586	705	687	504	227	59	29	3488
60	15	8	42	116	306	496	612	594	416	161	31	17	2814
65	0	0	12	44	171	346	457	439	274	78	9	7	1837
70	0	0	1	11	73	201	302	286	153	29	1	0	1057

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	206	285	498	670	932	1110	1243	1228	1030	737	428	256	206	491	989	1659	2591	3701	4944	6172	7202	7939	8367	8623
45	124	185	358	520	777	960	1088	1073	880	583	296	158	124	309	667	1187	1964	2924	4012	5085	5965	6548	6844	7002
50	64	101	231	377	622	810	933	918	730	429	189	88	64	165	396	773	1395	2205	3138	4056	4786	5215	5404	5492
55	33	52	130	244	467	660	778	763	580	292	105	45	33	85	215	459	926	1586	2364	3127	3707	3999	4104	4149
60	8	20	62	137	316	510	623	608	431	171	47	20	8	28	90	227	543	1053	1676	2284	2715	2886	2933	2953
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	128	187	316	439	628	762	853	837	695	485	273	160	128	315	631	1070	1698	2460	3313	4150	4845	5330	5603	5763

(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