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: EUPORA 2 E, MS **COOP ID: 222896**

Climate Division: MS 5 **NWS Call Sign:** **Elevation: 440 Feet** **Lat: 33˚33N** **Lon: 89˚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	52.2	29.9	41.1	85	1949	10	48.7	1974	-7	1962	12	30.3	1977	743	0	.0	.0	20.4	1.4	17.0	.1
Feb	57.8	32.6	45.2	89	1949	14	52.4	1990	-6	1951	2	35.0	1978	556	0	.0	.0	22.3	.5	12.7	.0
Mar	66.2	40.6	53.4	93	1948	25	60.3	1974	11+	1980	3	48.7+	1996	368	7	.0	@	29.5	.1	6.6	.0
Apr	73.9	48.2	61.1	97	1970	30	67.4	1981	25	1987	4	56.4	1983	152	34	.0	.3	29.9	.0	1.6	.0
May	81.1	57.5	69.3	100	1953	27	72.9	1987	34	1976	4	64.3	1976	30	163	.0	2.6	31.0	.0	.0	.0
Jun	87.8	64.9	76.4	105	1952	28	80.4	1998	42	1984	1	72.6	1974	0	341	.1	14.4	30.0	.0	.0	.0
Jul	91.0	68.4	79.7	110	1952	27	83.4	1980	50	1972	7	77.1	1984	0	455	.8	22.6	31.0	.0	.0	.0
Aug	90.6	67.0	78.8	110	1952	17	83.2	2000	50+	1956	23	75.0	1992	0	428	1.0	21.3	31.0	.0	.0	.0
Sep	85.1	60.5	72.8	107	1953	28	79.0	1980	37	1983	22	69.0	1975	18	251	.4	9.8	30.0	.0	.0	.0
Oct	75.5	48.0	61.8	100	1952	1	67.4	1998	21	1952	30	56.1	1976	160	59	.0	.5	30.9	.0	1.8	.0
Nov	64.5	39.5	52.0	91	1953	3	58.6	1985	10	1950	25	44.1	1976	398	9	.0	.0	28.4	@	8.3	.0
Dec	55.2	32.9	44.1	82	1951	2	53.8	1984	-4	1989	22	34.7	2000	651	0	.0	.0	23.1	.5	14.2	.1
Ann	73.4	49.2	61.3	110+	Aug 1952	17	83.4	Jul 1980	-7	Jan 1962	12	30.3	Jan 1977	3076	1747	2.3	71.5	337.5	2.5	62.2	.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

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	5.72	5.05	4.60	2001	19	12.13	1974	.46	1986
Feb	4.53	3.81	3.51	1964	16	10.03	1971	1.80	1986
Mar	6.60	6.16	5.89	1951	28	15.11	1980	2.14	1985
Apr	5.54	5.63	4.87	1980	12	14.55	1991	.70	1986
May	5.16	4.64	7.58	1991	26	15.67	1991	.96+	1996
Jun	4.17	3.54	4.05	1948	17	11.98	1989	.68	1988
Jul	4.06	4.12	5.03	1979	12	10.99	1979	.63	1993
Aug	2.99	2.81	4.60	1970	10	6.07	1997	.21	1990
Sep	3.79	3.80	4.58	1988	16	9.77	1979	.17	1984
Oct	3.65	2.75	6.68	1970	12	17.77	1984	.04	1978
Nov	5.21	4.61	4.44	1957	14	12.19	2000	1.17	1985
Dec	5.91	4.47	7.89	1983	2	17.79	1982	.69	1984
Ann	57.33	54.97	7.89	Dec 1983	2	17.79	Dec 1982	.04	Oct 1978

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.7	7.6	3.9	1.7
Feb	7.9	6.5	3.2	1.7
Mar	9.4	7.3	4.2	2.2
Apr	7.3	5.7	3.5	2.1
May	8.3	6.6	3.1	1.7
Jun	8.0	6.2	3.0	1.2
Jul	8.5	6.8	2.8	1.0
Aug	6.1	4.7	2.2	1.1
Sep	6.4	5.0	2.5	1.2
Oct	5.7	4.3	2.3	1.3
Nov	8.0	6.3	3.5	1.8
Dec	9.2	7.3	3.7	2.1
Ann	94.5	74.3	37.9	19.1

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	1.55	2.09	2.92	3.64	4.35	5.09	5.92	6.89	8.17	10.16	12.03
Feb	1.57	1.99	2.62	3.14	3.65	4.17	4.73	5.39	6.24	7.55	8.75
Mar	2.62	3.23	4.09	4.81	5.48	6.17	6.91	7.77	8.86	10.52	12.04
Apr	1.02	1.52	2.33	3.08	3.85	4.68	5.62	6.75	8.26	10.70	13.01
May	.84	1.29	2.04	2.75	3.48	4.27	5.18	6.30	7.78	10.19	12.49
Jun	.90	1.28	1.89	2.45	3.00	3.60	4.27	5.07	6.13	7.81	9.41
Jul	1.03	1.41	2.01	2.53	3.04	3.59	4.19	4.91	5.85	7.33	8.72
Aug	.50	.76	1.20	1.61	2.03	2.49	3.01	3.65	4.50	5.87	7.18
Sep	.74	1.08	1.64	2.15	2.67	3.22	3.85	4.61	5.62	7.23	8.77
Oct	.26	.49	.95	1.45	2.01	2.66	3.44	4.43	5.81	8.13	10.42
Nov	1.38	1.87	2.62	3.29	3.94	4.63	5.39	6.29	7.47	9.32	11.05
Dec	1.27	1.81	2.68	3.46	4.26	5.10	6.05	7.19	8.69	11.08	13.35
Ann	38.91	42.41	46.94	50.39	53.48	56.48	59.59	63.03	67.24	73.36	78.68

\+ 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	.7	.0	#	0
Feb	#	.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
Nov	#	.0	0	0
Dec	.1	.0	#	0
Ann	.9	.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	7.3	1992	19	7.3	1992	6	2000	28	#	2000
Feb	#	1986	10	#	1986	#	1989	6	#	1989
Mar	2.5	1993	13	2.5	1993	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	#	1989	19	#	1989	0	0	0	0	0
Nov	#	1976	29	#	1976	0	0	0	0	0
Dec	1.0	1998	22	1.0+	1998	1	1998	22	#	1998
Ann	7.3	Jan 1992	19	7.3	Jan 1992	6	Jan 2000	28	#+	Jan 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.2	.2	.1	.1	.0
Feb	.0	.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	.1	.1	.0	.0	.0
Ann	.4	.4	.1	.1	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	@	@	@	.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
Ann	@	@	@	.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	4/23	4/19	4/17	4/14	4/12	4/10	4/07	4/04	3/31
32	4/18	4/14	4/11	4/08	4/05	4/03	3/31	3/28	3/24
28	4/08	4/02	3/29	3/25	3/22	3/18	3/15	3/10	3/04
24	3/19	3/12	3/07	3/03	2/27	2/23	2/19	2/14	2/07
20	3/11	3/03	2/25	2/20	2/15	2/10	2/05	1/30	1/22
16	3/03	2/22	2/15	2/09	2/03	1/28	1/20	1/09	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	10/02	10/06	10/09	10/12	10/15	10/17	10/20	10/23	10/28
32	10/07	10/13	10/17	10/21	10/24	10/28	10/31	11/05	11/11
28	10/25	10/31	11/04	11/07	11/11	11/14	11/18	11/22	11/28
24	11/06	11/14	11/20	11/25	11/29	12/04	12/09	12/14	12/22
20	11/15	11/25	12/02	12/08	12/14	12/20	12/26	1/02	1/13
16	12/01	12/12	12/20	12/27	1/03	1/10	1/19	2/01	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	195	191	188	185	182	179	175	170
32	222	215	210	205	201	197	193	188	181
28	260	251	244	239	233	228	223	216	207
24	301	292	286	280	275	269	264	257	248
20	335	319	310	303	297	292	285	278	269
16	>365	>365	>365	341	329	320	313	305	294

***** 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	743	556	368	152	30	0	0	0	18	160	398	651	3076
60	599	422	234	67	6	0	0	0	4	78	268	507	2185
57	514	343	168	34	2	0	0	0	1	45	202	422	1731
55	459	294	131	20	0	0	0	0	0	29	164	368	1465
50	333	187	60	4	0	0	0	0	0	8	87	250	929
32	55	10	0	0	0	0	0	0	0	0	1	25	91

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	336	378	663	873	1156	1331	1478	1451	1224	922	601	397	10810
55	26	18	81	202	444	641	765	738	534	238	74	28	3789
57	19	12	56	157	383	581	703	676	474	192	52	19	3324
60	12	6	29	99	294	491	610	583	387	132	29	11	2683
65	0	0	7	34	163	341	455	428	251	59	9	0	1747
70	0	0	0	7	69	197	300	276	140	19	0	0	1008

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	199	274	494	674	947	1119	1256	1223	1015	718	416	241	199	473	967	1641	2588	3707	4963	6186	7201	7919	8335	8576
45	113	176	353	524	792	969	1101	1068	865	564	291	148	113	289	642	1166	1958	2927	4028	5096	5961	6525	6816	6964
50	59	101	230	379	637	819	946	913	715	416	184	84	59	160	390	769	1406	2225	3171	4084	4799	5215	5399	5483
55	26	49	133	247	482	669	791	758	566	274	103	37	26	75	208	455	937	1606	2397	3155	3721	3995	4098	4135
60	6	16	63	143	329	519	636	603	420	163	47	12	6	22	85	228	557	1076	1712	2315	2735	2898	2945	2957
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	129	190	320	443	636	768	854	826	685	482	272	155	129	319	639	1082	1718	2486	3340	4166	4851	5333	5605	5760

(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