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: PAW PAW 2 NW, IL **COOP ID: 116661**

Climate Division: IL 1 **NWS Call Sign:** **Elevation: 950 Feet** **Lat: 41˚43N** **Lon: 89˚00W**

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	25.3	7.7	16.5	64	1967	25	29.1	1990	-25+	1999	5	4.3	1977	1503	0	.0	.0	.7	21.3	30.5	8.5
Feb	30.9	13.3	22.1	68	1976	28	34.5	1998	-33+	1996	4	8.9	1979	1202	0	.0	.0	2.0	14.8	26.4	4.9
Mar	43.2	24.6	33.9	83	1986	30	41.8	2000	-9+	1996	9	26.0	1996	964	0	.0	.0	9.1	5.3	24.4	.3
Apr	57.4	35.8	46.6	90+	1986	27	53.9	1977	9	1982	7	40.8	1975	553	1	.0	.1	22.3	.3	9.9	.0
May	69.7	47.2	58.5	94	1975	20	66.9	1977	26+	1980	10	52.7	1997	254	50	.0	.4	30.3	.0	1.1	.0
Jun	79.2	56.4	67.8	101	1988	26	71.5	1971	36	1972	10	63.2	1982	42	125	@	2.7	30.0	.0	.0	.0
Jul	82.1	60.4	71.3	101	1966	11	75.5	1983	41	2000	23	66.3	2000	12	204	.1	3.9	31.0	.0	.0	.0
Aug	79.8	58.0	68.9	99	1988	18	75.3	1995	37	1986	28	63.7	1992	41	162	.0	2.2	31.0	.0	.0	.0
Sep	73.3	49.5	61.4	93	1978	9	66.4	1978	29	1995	23	56.6	1975	147	39	.0	.6	29.9	.0	.3	.0
Oct	61.3	37.7	49.5	88+	1976	3	58.3	1971	16	1962	26	43.3	1987	483	3	.0	.0	26.9	.0	7.0	.0
Nov	44.7	26.2	35.5	76	1968	1	42.4	1999	-7	1976	29	26.7	1995	887	0	.0	.0	10.5	4.2	20.6	.2
Dec	30.8	14.0	22.4	65+	2001	6	31.5	1982	-23+	1983	25	9.1	2000	1320	0	.0	.0	2.1	15.8	29.5	4.6
Ann	56.5	35.9	46.2	101+	Jun 1988	26	75.5	Jul 1983	-33+	Feb 1996	4	4.3	Jan 1977	7408	584	.1	9.9	225.8	61.7	149.7	18.5

\+ 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	1.39	.89	2.20	1960	12	4.19	1974	.05	1981
Feb	1.26	1.08	2.95	1997	21	5.46	1997	.00	1987
Mar	2.34	2.07	3.35	1954	25	5.52	1976	.53	1978
Apr	3.47	3.48	2.97	1959	28	6.71	1975	1.15	1997
May	4.23	4.03	3.88	1951	10	8.47	1974	.67	1992
Jun	4.40	4.03	6.92	1994	24	11.46	1993	.24	1988
Jul	3.77	3.30	5.46	2000	10	10.50	1982	.54	1976
Aug	4.17	3.34	4.55	1965	27	12.58	1987	.46	1976
Sep	3.81	3.31	5.24	1992	10	9.08	1978	.86	1979
Oct	2.76	2.62	4.06	1954	11	6.54	1998	.60	1992
Nov	3.00	2.36	2.55	1995	11	9.02	1985	.23	1976
Dec	2.16	1.84	3.77	1982	3	6.79	1982	.30	1989
Ann	36.76	36.92	6.92	Jun 1994	24	12.58	Aug 1987	.00	Feb 1987

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.5	3.8	.7	.1
Feb	6.1	3.1	.7	.1
Mar	9.2	6.1	1.2	.3
Apr	10.8	7.3	2.2	.7
May	10.7	7.8	3.1	1.2
Jun	9.8	7.1	2.6	1.0
Jul	9.2	6.2	2.2	1.0
Aug	9.4	6.4	2.6	1.0
Sep	8.8	6.0	2.5	1.0
Oct	8.4	5.3	1.8	.6
Nov	8.9	6.1	1.8	.7
Dec	8.4	5.1	1.1	.4
Ann	107.2	70.3	22.5	8.1

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	.19	.30	.50	.70	.90	1.12	1.38	1.70	2.13	2.83	3.51
Feb	.14	.30	.51	.69	.87	1.07	1.29	1.56	1.91	2.47	3.01
Mar	.62	.84	1.18	1.48	1.77	2.07	2.41	2.82	3.34	4.17	4.95
Apr	1.15	1.48	1.96	2.37	2.77	3.17	3.62	4.13	4.80	5.83	6.79
May	1.29	1.69	2.29	2.81	3.31	3.83	4.40	5.06	5.93	7.28	8.53
Jun	.96	1.36	2.01	2.59	3.17	3.80	4.50	5.34	6.45	8.21	9.88
Jul	.79	1.13	1.69	2.19	2.70	3.24	3.85	4.58	5.55	7.10	8.56
Aug	.82	1.20	1.81	2.37	2.94	3.55	4.25	5.08	6.18	7.95	9.63
Sep	1.01	1.37	1.92	2.40	2.88	3.38	3.93	4.59	5.45	6.80	8.07
Oct	.61	.87	1.28	1.64	2.01	2.40	2.83	3.36	4.04	5.14	6.18
Nov	.43	.67	1.10	1.52	1.95	2.43	2.98	3.66	4.57	6.06	7.49
Dec	.47	.67	.99	1.27	1.56	1.86	2.21	2.62	3.16	4.03	4.84
Ann	27.27	29.14	31.51	33.30	34.88	36.40	37.97	39.69	41.78	44.79	47.37

\+ 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	8.5	7.4	4	3
Feb	4.7	3.7	3	2
Mar	3.8	2.0	1	#
Apr	1.1	.0	#	#
May	#	.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	2.6	1.8	#	#
Dec	7.7	6.0	2	1
Ann	28.5	20.9	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	8.0	1979	14	31.5	1979	29	1979	19	21	1979
Feb	7.1	1990	15	12.5	1980	23	1979	20	19	1979
Mar	8.0	1972	14	20.3	1972	17	1979	1	7	1979
Apr	10.0	1975	3	11.0	1975	10	1975	3	1	1975
May	#	1994	1	#+	1994	#	1997	19	#	1997
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	1.5	1997	27	1.5	1997	3	1989	20	#+	1989
Nov	5.4	1971	27	11.0	1971	6	1977	29	1	1978
Dec	10.0	1987	15	26.0	1978	24	2000	31	12	2000
Ann	10.0+	Dec 1987	15	31.5	Jan 1979	29	Jan 1979	19	21	Jan 1979

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	4.9	3.3	.7	.2	.0
Feb	3.0	1.9	.6	.1	.0
Mar	2.0	1.3	.4	.2	.0
Apr	.4	.3	.1	.1	@
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	1.2	.9	.3	.1	.0
Dec	4.0	2.9	.9	.3	@
Ann	15.6	10.7	3.0	1.0	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	15.9	10.1	5.9	.4
Feb	10.9	6.7	3.4	.5
Mar	3.6	1.2	.5	.0
Apr	.4	.2	.2	@
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	2.0	.8	.1	.0
Dec	10.2	5.5	2.4	.1
Ann	43.0	24.5	12.5	1.0

+ 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	5/29	5/23	5/18	5/14	5/11	5/07	5/03	4/29	4/22
32	5/14	5/08	5/04	5/01	4/27	4/24	4/21	4/17	4/11
28	4/30	4/25	4/21	4/18	4/15	4/12	4/08	4/05	3/30
24	4/17	4/13	4/10	4/07	4/05	4/03	4/01	3/29	3/25
20	4/07	4/02	3/30	3/27	3/25	3/22	3/19	3/16	3/11
16	4/04	3/29	3/24	3/21	3/17	3/14	3/10	3/06	2/28

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	9/21	9/24	9/27	9/29	10/01	10/03	10/05	10/08	10/11
32	9/26	10/01	10/04	10/07	10/10	10/13	10/15	10/19	10/23
28	10/05	10/11	10/15	10/18	10/21	10/24	10/28	11/01	11/06
24	10/16	10/22	10/25	10/29	11/01	11/04	11/07	11/11	11/16
20	10/27	11/01	11/05	11/08	11/11	11/14	11/17	11/21	11/26
16	11/05	11/11	11/15	11/18	11/22	11/25	11/28	12/02	12/08

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	162	155	150	146	142	139	134	130	123
32	186	178	173	169	165	161	156	151	144
28	213	205	199	194	189	184	179	173	165
24	229	222	217	213	209	205	201	196	189
20	253	245	240	235	231	226	222	216	209
16	275	266	259	254	249	244	238	232	223

***** 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	1503	1202	964	553	254	42	12	41	147	483	887	1320	7408
60	1348	1062	809	409	156	11	0	11	63	339	737	1165	6110
57	1255	978	716	327	110	4	0	3	33	262	647	1072	5407
55	1193	922	654	277	84	2	0	1	20	216	588	1010	4967
50	1038	785	510	166	37	0	0	0	4	120	446	860	3966
32	517	346	121	4	0	0	0	0	0	2	84	378	1452

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	38	68	180	442	819	1073	1216	1144	883	545	188	81	6677
55	0	0	0	25	190	385	503	432	212	46	1	0	1794
57	0	0	0	15	154	327	441	372	166	30	0	0	1505
60	0	0	0	7	107	244	348	287	106	14	0	0	1113
65	0	0	0	1	50	125	204	162	39	3	0	0	584
70	0	0	0	0	18	45	94	76	9	0	0	0	242

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	0	9	72	258	594	863	996	930	683	352	85	7	0	9	81	339	933	1796	2792	3722	4405	4757	4842	4849
45	0	0	39	156	441	713	841	775	533	225	42	2	0	0	39	195	636	1349	2190	2965	3498	3723	3765	3767
50	0	0	17	85	303	563	686	620	387	129	18	0	0	0	17	102	405	968	1654	2274	2661	2790	2808	2808
55	0	0	4	41	183	414	531	465	256	63	4	0	0	0	4	45	228	642	1173	1638	1894	1957	1961	1961
60	0	0	0	19	100	276	376	313	149	23	0	0	0	0	0	19	119	395	771	1084	1233	1256	1256	1256
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	3	50	158	357	560	672	616	425	213	50	2	0	3	53	211	568	1128	1800	2416	2841	3054	3104	3106

(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