

# Climatology of the United States

No. 20

1971-2000

Station: PLATTSBURG, MO

COOP ID: 236739

Climate Division: MO 1

NWS Call Sign:

Elevation: 900 Feet

Lat: 39° 35N

Lon: 94° 27W

## 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	.0	.0	.0	67	1981	25	.0	0	-30+	1974	13	.0	0	0	0	.0	.0	4.4	11.9	30.0	5.5
Feb	.0	.0	.0	79	1972	29	.0	0	-30+	1979	10	.0	0	0	0	.0	.0	7.6	8.3	25.4	3.6
Mar	.0	.0	.0	85	1986	29	.0	0	-15	1978	5	.0	0	0	0	.0	.0	18.9	1.5	22.5	.3
Apr	.0	.0	.0	91+	1989	28	.0	0	6+	1975	4	.0	0	0	0	.0	.1	26.7	.1	11.3	.0
May	.0	.0	.0	98	1967	26	.0	0	25+	1976	4	.0	0	0	0	.0	.3	31.0	.0	.6	.0
Jun	.0	.0	.0	102+	1988	25	.0	0	39+	1988	11	.0	0	0	0	.2	5.7	30.0	.0	.0	.0
Jul	.0	.0	.0	108	1974	22	.0	0	41	1972	5	.0	0	0	0	1.3	13.3	31.0	.0	.0	.0
Aug	.0	.0	.0	107	1984	29	.0+	0	40	1974	4	.0	0	0	0	.7	7.4	31.0	.0	.0	.0
Sep	.0	.0	.0	99	1975	2	.0	0	25	1984	30	.0	0	0	0	.0	2.2	29.9	.0	.9	.0
Oct	.0	.0	.0	91	1969	4	.0	0	18+	1972	20	.0	0	0	0	.0	.1	29.5	.0	6.5	.0
Nov	.0	.0	.0	82	1980	9	.0	0	-7+	1976	30	.0	0	0	0	.0	.0	16.9	1.9	19.8	.2
Dec	.0	.0	.0	71	1984	29	.0	0	-36	1989	23	.0	0	0	0	.0	.0	5.4	8.0	28.5	3.0
Ann	.0	.0	.0	108	Jul 1974	22	-99.9	0	-36	Dec 1989	23	99.9	0	0	0	2.2	29.1	262.3	31.7	145.5	12.6

+ 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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1966-2001

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

077-A

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## No. 20 1971-2000

National Climatic Data Center  
Federal Building  
151 Patton Avenue  
Asheville, North Carolina 28801  
www.ncdc.noaa.gov

**Station: PLATTSBURG, MO**

**COOP ID: 236739**

**Climate Division: MO 1**

**NWS Call Sign:**

**Elevation: 900 Feet Lat: 39°35N**

**Lon: 94°27W**

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med- ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	1.28	1.12	2.15	1982	30	3.31	1982	.00+	1986	5.1	3.5	.6	.1	.00	.28	.55	.75	.94	1.14	1.36	1.60	1.93	2.46	2.95
Feb	1.42	1.40	1.84	1997	21	3.38	1997	.09	1991	5.2	3.5	.8	.1	.31	.44	.65	.84	1.03	1.23	1.45	1.72	2.08	2.64	3.18
Mar	2.54	2.23	2.45	1967	31	9.18	1973	.31	1997	7.3	5.3	1.7	.6	.57	.80	1.17	1.51	1.84	2.20	2.60	3.08	3.71	4.72	5.66
Apr	3.44	3.54	3.30	1997	11	7.82	1978	.81	1980	9.2	7.1	2.5	.8	.99	1.32	1.81	2.24	2.65	3.09	3.57	4.14	4.87	6.02	7.09
May	5.80	5.65	4.05	1974	17	12.75	1974	1.42	1998	10.6	8.0	3.4	1.6	1.89	2.44	3.25	3.94	4.60	5.29	6.04	6.92	8.05	9.81	11.44
Jun	4.16	3.93	4.61	1982	8	9.39	2000	1.31	1980	9.0	7.1	2.8	1.1	1.54	1.93	2.49	2.96	3.40	3.86	4.35	4.93	5.66	6.79	7.82
Jul	5.02	4.81	3.81	1981	26	13.87	1993	.19	1975	8.2	6.1	2.7	1.6	.76	1.19	1.91	2.60	3.32	4.11	5.02	6.13	7.61	10.03	12.35
Aug	3.90	3.88	3.67	1982	12	11.99	1977	.33	1984	6.8	4.9	2.2	1.1	.59	.92	1.48	2.02	2.58	3.19	3.90	4.76	5.92	7.80	9.60
Sep	4.51	3.71	4.76	1977	13	11.12	1973	1.05	1990	7.4	6.0	3.0	1.5	1.26	1.68	2.33	2.90	3.45	4.03	4.67	5.43	6.42	7.96	9.40
Oct	3.61	3.46	4.18	1998	5	9.18	1977	.37	1978	7.0	5.3	2.5	1.0	.49	.78	1.30	1.80	2.33	2.91	3.58	4.41	5.53	7.36	9.12
Nov	2.30	2.18	2.15	1998	2	5.07	1992	.00	1989	6.8	4.9	2.0	.6	.35	.65	1.04	1.36	1.68	2.02	2.39	2.83	3.41	4.33	5.19
Dec	1.59	1.41	2.08	1980	8	4.71	1982	.01	1996	5.8	3.5	1.0	.4	.14	.25	.46	.68	.92	1.20	1.52	1.93	2.50	3.44	4.37
Ann	39.57	38.59	4.76	Sep 1977	13	13.87	Jul 1993	.00+	Nov 1989	88.4	65.2	25.2	10.5	25.38	28.01	31.45	34.10	36.49	38.81	41.23	43.93	47.24	52.08	56.32

+ 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: 1966-2001

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

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Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										Snow Fall >= Thresholds					Snow Depth >= Thresholds			
Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	5.4	4.0	1	#	8.5	1979	13	23.0	1979	10	1985	9	10	1985	2.0	1.5	.6	.2	.0	.4	.2	.0	.0
Feb	5.5	5.0	#	#	7.5	1978	13	15.0	1978	12	1978	14	1	1978	2.2	2.0	.8	.1	.0	.6	.2	.2	.1
Mar	2.9	1.0	#	0	6.5	1975	10	13.5	1978	7	1975	10	5	1978	.9	.9	.3	.2	.0	.2	.2	.1	.0
Apr	.5	.0	#	0	3.5	1975	3	5.0	1975	3	1973	9	#+	1996	.2	.2	.1	.0	.0	.1	.1	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	#	0	.0	0	0	.0	0	4	1996	23	#	1996	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	1.2	.0	#	0	4.8	1975	27	8.6	1975	2+	1976	26	#+	1995	.7	.6	.1	.0	.0	.2	.0	.0	.0
Dec	3.5	3.0	#	#	9.0	1987	14	9.0	1987	10	1983	21	3	1985	1.6	1.3	.2	.2	.0	1.0	.1	.1	.0
Ann	19.0	13.0	N/A	N/A	9.0	Dec 1987	14	23.0	Jan 1979	12	Feb 1978	14	10	Jan 1985	7.6	6.5	2.1	.7	.0	2.5	.8	.4	.1

+ 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	5/16	5/12	5/08	5/06	5/03	4/30	4/28	4/24	4/20
32	5/08	5/05	5/03	5/01	4/29	4/27	4/25	4/23	4/20
28	5/04	4/30	4/27	4/24	4/21	4/19	4/16	4/13	4/08
24	4/25	4/19	4/16	4/12	4/09	4/06	4/03	3/30	3/25
20	4/14	4/08	4/04	3/31	3/28	3/24	3/20	3/16	3/10
16	4/01	3/27	3/23	3/19	3/16	3/13	3/09	3/05	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	9/12	9/16	9/19	9/22	9/25	9/27	9/30	10/03	10/07
32	9/19	9/24	9/27	9/30	10/03	10/06	10/09	10/13	10/18
28	10/01	10/08	10/12	10/17	10/20	10/24	10/28	11/02	11/09
24	10/15	10/20	10/25	10/28	10/31	11/04	11/07	11/12	11/17
20	10/24	10/31	11/04	11/09	11/13	11/16	11/21	11/26	12/02
16	11/08	11/14	11/18	11/21	11/24	11/27	12/01	12/05	12/10
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	164	157	152	148	144	140	136	131	124
32	174	168	163	160	157	153	150	145	140
28	205	197	191	186	181	177	171	166	157
24	229	220	214	209	204	200	195	189	180
20	257	247	241	235	229	224	218	211	202
16	271	265	260	256	252	249	245	240	233

\* 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

Complete documentation available from:

[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

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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	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0

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	7	38	140	347	710	955	1134	1012	737	424	133	23	7	45	185	532	1242	2197	3331	4343	5080	5504	5637	5660
45	1	17	73	230	555	805	979	857	587	283	68	6	1	18	91	321	876	1681	2660	3517	4104	4387	4455	4461
50	0	6	35	135	402	655	824	702	441	166	29	1	0	6	41	176	578	1233	2057	2759	3200	3366	3395	3396
55	0	0	11	73	264	505	669	547	306	81	10	0	0	0	11	84	348	853	1522	2069	2375	2456	2466	2466
60	0	0	1	31	148	359	515	393	191	26	2	0	0	0	1	32	180	539	1054	1447	1638	1664	1666	1666
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	13	42	120	249	445	640	765	673	474	288	96	21	13	55	175	424	869	1509	2274	2947	3421	3709	3805	3826

(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](http://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.  
Complete documentation for the 1971-2000 Normals is available on the internet from:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/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 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.

- |   |   |
|---|---|
| <ol style="list-style-type: none"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)