

Climatography of the United States

No. 20

1971-2000

Station: POPLAR BLUFF, MO

COOP ID: 236791

Climate Division: MO 6

NWS Call Sign:

Elevation: 370 Feet

Lat: 36°46N

Lon: 90°24W

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	42.1	23.0	32.6	78	1943	24	40.9	1990	-23	1930	18	20.0	1977	1006	0	.0	.0	8.1	6.3	25.2	.8
Feb	48.6	27.7	38.2	83	1962	13	45.5	1992	-18	1951	2	26.1	1978	751	0	.0	.0	13.4	3.8	18.7	.2
Mar	59.2	36.5	47.9	92	1929	24	52.4	1973	0	1943	3	41.4	1975	533	1	.0	.0	24.4	.4	11.1	.0
Apr	69.9	46.0	58.0	94	1927	27	64.4	1981	20	1921	5	51.7	1983	234	23	.0	.2	29.1	.0	2.0	.0
May	79.0	55.9	67.5	100	1934	30	74.1	1987	31	1944	7	62.1	1976	70	147	.0	2.0	31.0	.0	.0	.0
Jun	87.3	64.7	76.0	110	1936	20	79.4	1987	42	1930	1	71.2	1974	2	333	.2	11.4	30.0	.0	.0	.0
Jul	91.9	69.4	80.7	109+	1980	14	86.1	1980	48	1947	23	77.6	1972	0	484	1.4	20.2	31.0	.0	.0	.0
Aug	90.0	66.9	78.5	112	1930	9	84.3	1980	44	1967	28	73.0	1992	1	416	.7	15.6	31.0	.0	.0	.0
Sep	82.7	58.9	70.8	108	1925	7	76.5	1998	31	1924	30	64.1	1974	26	200	.1	6.0	30.0	.0	.0	.0
Oct	72.2	46.1	59.2	96+	1963	11	66.1	1971	17	1952	29	53.4	1976	215	34	.0	.3	30.7	.0	1.6	.0
Nov	58.0	37.0	47.5	85	1924	4	54.2	1999	4	1950	25	38.9	1976	527	1	.0	.0	22.3	.2	10.4	.0
Dec	46.5	27.7	37.1	79	1939	7	44.5	1971	-10	1989	22	25.4	1983	865	0	.0	.0	12.0	3.1	20.9	.3
Ann	69.0	46.7	57.8	112	Aug 1930	9	86.1	Jul 1980	-23	Jan 1930	18	20.0	Jan 1977	4230	1639	2.4	55.7	293.0	13.8	89.9	1.3

+ 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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1918-2001

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

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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: POPLAR BLUFF, MO

COOP ID: 236791

Climate Division: MO 6

NWS Call Sign:

Elevation: 370 Feet Lat: 36°46N

Lon: 90°24W

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	2.96	2.86	5.72	1969	30	5.69	1999	.19	1986	7.4	5.4	2.1	.8	.52	.78	1.21	1.62	2.03	2.48	2.99	3.61	4.44	5.77	7.05
Feb	3.48	2.63	3.90	1979	23	13.39	1989	.19	1999	7.3	5.4	2.4	1.0	.63	.94	1.45	1.92	2.41	2.93	3.53	4.25	5.21	6.75	8.22
Mar	4.71	3.78	6.60	1977	28	12.15	1977	1.51	1971	9.6	6.9	3.2	1.1	1.56	2.00	2.66	3.22	3.75	4.31	4.91	5.62	6.53	7.95	9.25
Apr	4.77	3.88	3.80	1944	11	11.36	1991	1.18	2000	9.8	7.0	3.1	1.4	1.46	1.91	2.59	3.17	3.73	4.31	4.96	5.71	6.69	8.21	9.62
May	4.37	4.35	4.79	1918	12	8.51	1973	.75	1994	9.7	6.8	3.0	1.3	1.28	1.70	2.32	2.86	3.38	3.93	4.53	5.24	6.16	7.60	8.93
Jun	3.96	3.85	4.00	1928	4	11.40	1998	.25	1991	8.0	5.8	2.7	1.1	.79	1.15	1.73	2.26	2.80	3.38	4.03	4.82	5.86	7.53	9.11
Jul	3.83	3.32	5.52	1937	4	11.97	1988	.57	1983	7.2	5.5	2.6	1.0	.72	1.06	1.62	2.14	2.67	3.24	3.88	4.66	5.69	7.36	8.94
Aug	3.38	2.88	5.67	1942	23	9.56	1977	.39	2000	6.6	4.9	2.2	1.0	.54	.82	1.32	1.78	2.26	2.79	3.39	4.13	5.12	6.72	8.25
Sep	3.37	2.55	6.17	1936	2	11.61	1993	.44	1999	6.5	4.7	2.1	1.2	.43	.70	1.18	1.65	2.15	2.69	3.33	4.12	5.18	6.93	8.62
Oct	3.35	3.13	4.91	1998	6	8.65	1984	.61	1971	6.8	5.0	2.3	1.0	.84	1.15	1.64	2.07	2.50	2.95	3.45	4.05	4.83	6.06	7.22
Nov	4.90	4.33	3.34	1931	20	10.71	1973	.73	1976	9.1	6.3	3.3	1.7	1.39	1.85	2.56	3.17	3.77	4.39	5.08	5.90	6.96	8.61	10.16
Dec	4.32	3.67	3.62	1918	12	11.15	1982	1.17	1989	8.5	6.3	3.2	1.1	1.12	1.53	2.16	2.71	3.25	3.83	4.46	5.22	6.21	7.76	9.22
Ann	47.40	47.58	6.60	Mar 1977	28	13.39	Feb 1989	.19+	Feb 1999	96.5	70.0	32.2	13.7	32.61	35.44	39.08	41.86	44.33	46.73	49.22	51.97	55.33	60.21	64.44

+ 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: 1918-2001

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

Complete documentation available from:
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Station: POPLAR BLUFF, MO

COOP ID: 236791

Climate Division: MO 6

NWS Call Sign:

Elevation: 370 Feet

Lat: 36°46N

Lon: 90°24W

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	2.9	.0	#	0	20.0	1978	17	23.0	1978	4	1988	8	#	2000	.9	.7	.4	.2	@	.2	@	.0	.0
Feb	1.7	.0	#	0	9.5	1980	8	13.5	1980	4	1976	3	#	1976	.5	.4	.2	.1	.0	.1	@	.0	.0
Mar	1.7	.0	#	0	13.6	1994	9	18.0	1994	6	1975	10	#	1975	.4	.4	.3	.1	.1	.1	.1	@	.0
Apr	#	.0	0	0	#	1971	7	#	1971	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	#	0	.0	0	0	.0	0	0	0	0	#	1995	.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	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.3	.0	#	0	6.0	1975	27	6.0	1975	7	1980	27	#	1980	.1	.1	@	@	.0	.1	.1	.1	.0
Dec	.6	.0	#	0	2.5	1972	15	2.6	1985	7	1984	6	#	1984	.4	.2	.0	.0	.0	.1	.1	@	.0
Ann	7.2	.0	N/A	N/A	20.0	Jan 1978	17	23.0	Jan 1978	7+	Dec 1984	6	#+	Jan 2000	2.3	1.8	.9	.4	.1	.6	.3	.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

Complete documentation available from:

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Climate Division: MO 6

NWS Call Sign:

Elevation: 370 Feet

Lat: 36° 46N

Lon: 90° 24W

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	4/27	4/22	4/19	4/16	4/13	4/10	4/07	4/04	3/30
32	4/17	4/12	4/09	4/07	4/04	4/01	3/30	3/26	3/22
28	4/08	4/03	3/30	3/27	3/24	3/21	3/18	3/14	3/09
24	3/31	3/23	3/18	3/13	3/09	3/04	2/28	2/22	2/15
20	3/18	3/11	3/05	3/01	2/24	2/20	2/15	2/10	2/03
16	3/12	3/04	2/26	2/20	2/15	2/11	2/05	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	10/04	10/09	10/12	10/15	10/17	10/20	10/22	10/26	10/30
32	10/14	10/19	10/22	10/25	10/28	10/31	11/03	11/07	11/12
28	10/28	11/02	11/06	11/09	11/12	11/14	11/17	11/21	11/26
24	11/02	11/09	11/14	11/19	11/23	11/27	12/01	12/07	12/14
20	11/13	11/20	11/25	11/30	12/04	12/08	12/13	12/18	12/25
16	11/22	12/01	12/07	12/13	12/18	12/23	12/29	1/04	1/13
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	204	198	194	190	186	183	179	174	168
32	228	221	215	211	207	202	198	192	185
28	254	246	241	236	232	227	223	217	210
24	287	277	270	264	259	253	247	240	230
20	310	300	293	287	282	276	270	263	254
16	338	325	316	309	302	296	289	281	270

* 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:

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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	1006	751	533	234	70	2	0	1	26	215	527	865	4230
60	851	614	388	129	25	0	0	0	5	115	386	711	3224
57	758	536	307	81	12	0	0	0	2	72	307	623	2698
55	699	484	257	57	7	0	0	0	0	50	258	566	2378
50	556	360	155	18	1	0	0	0	0	16	157	426	1689
32	157	71	7	0	0	0	0	0	0	0	7	89	331

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	175	243	498	779	1099	1321	1507	1439	1164	842	471	246	9784
55	3	13	35	145	393	631	794	726	474	179	32	11	3436
57	0	9	23	110	336	571	732	664	416	139	21	6	3027
60	0	3	11	68	257	481	639	571	329	89	10	1	2459
65	0	0	1	23	147	333	484	416	200	34	1	0	1639
70	0	0	0	5	68	194	329	270	100	8	0	0	974

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	45	117	291	548	854	1085	1261	1188	927	598	261	84	45	162	453	1001	1855	2940	4201	5389	6316	6914	7175	7259
45	21	58	182	408	699	935	1106	1033	777	444	160	39	21	79	261	669	1368	2303	3409	4442	5219	5663	5823	5862
50	2	23	99	276	545	785	951	878	627	303	88	13	2	25	124	400	945	1730	2681	3559	4186	4489	4577	4590
55	0	4	46	162	391	635	796	723	477	185	41	2	0	4	50	212	603	1238	2034	2757	3234	3419	3460	3462
60	0	0	16	85	248	485	641	568	337	95	13	0	0	0	16	101	349	834	1475	2043	2380	2475	2488	2488
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	33	77	175	337	551	739	859	814	617	379	153	46	33	110	285	622	1173	1912	2771	3585	4202	4581	4734	4780

(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/normal/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
- 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.

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| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
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References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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