

Climatology of the United States

No. 20

1971-2000

Station: OREGON, MO

COOP ID: 236357

Climate Division: MO 1

NWS Call Sign:

Elevation: 1,045 Feet Lat: 39° 59N

Lon: 95° 09W

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	32.4	13.6	23.0	69	1951	18	33.7	1989	-20	1974	12	9.4	1979	1302	0	.0	.0	3.2	13.4	30.1	5.3
Feb	38.7	19.6	29.2	77	1995	26	38.8	1976	-20	1996	2	15.0	1979	1004	0	.0	.0	7.1	9.5	24.5	3.1
Mar	50.6	29.7	40.2	85+	1978	31	45.6	1986	-12+	1978	5	32.4	1978	770	0	.0	.0	16.7	2.3	21.8	.3
Apr	62.2	41.2	51.7	92+	1970	29	59.7	1981	9+	1975	4	45.8	1983	405	6	.0	.3	26.0	.2	5.9	.0
May	72.7	51.9	62.3	96+	2000	31	68.3	1977	27+	1976	4	56.6	1997	159	76	.0	.5	30.9	.0	.2	.0
Jun	82.2	61.3	71.8	102	1980	28	76.8	1988	43+	2001	1	66.6	1982	15	218	.2	5.9	30.0	.0	.0	.0
Jul	86.3	65.7	76.0	108	1974	22	81.2	1980	44	1971	30	72.2	1992	0	341	.8	11.1	31.0	.0	.0	.0
Aug	85.2	63.7	74.5	103+	2000	29	82.3	1983	43	1950	20	69.0	1992	12	306	.2	8.7	31.0	.0	.0	.0
Sep	77.7	54.9	66.3	103	1975	2	70.9	1998	29	1995	22	60.2	1993	74	113	.1	3.5	30.0	.0	.2	.0
Oct	66.0	43.2	54.6	96	1963	5	60.8	1971	17	1972	19	49.1	1976	329	6	.0	.1	29.5	.0	4.1	.0
Nov	49.5	30.5	40.0	83	1999	14	50.3	1999	-1	1964	30	32.8	1991	750	0	.0	.0	17.9	1.7	17.4	.1
Dec	36.1	18.9	27.5	71	2001	6	34.2	1991	-13	1976	31	10.3	1983	1162	0	.0	.0	4.7	10.4	28.7	2.9
Ann	61.6	41.2	51.4	108	Jul 1974	22	82.3	Aug 1983	-20+	Feb 1996	2	9.4	Jan 1979	5982	1066	1.3	30.1	258.0	37.5	132.9	11.7

+ 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: 1948-2001

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

073-A

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: OREGON, MO

COOP ID: 236357

Climate Division: MO 1

NWS Call Sign:

Elevation: 1,045 Feet Lat: 39°59N

Lon: 95°09W

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	.72	.65	1.05	1965	2	2.51	1973	.00+	1997	5.7	2.6	.2	.0	.00	.00	.19	.33	.47	.60	.75	.93	1.17	1.53	1.88
Feb	1.14	1.15	2.02	1997	21	2.94	1973	.00	1996	5.3	2.9	.5	.1	.08	.19	.37	.54	.72	.91	1.14	1.41	1.78	2.39	2.97
Mar	2.49	2.03	2.13	1982	21	7.39	1973	.45	1988	8.4	5.1	1.8	.3	.46	.68	1.05	1.39	1.73	2.10	2.53	3.04	3.72	4.82	5.86
Apr	3.36	3.11	2.38	1999	14	7.58	1999	.66	1989	10.3	6.5	2.6	.7	1.00	1.32	1.80	2.21	2.61	3.03	3.49	4.03	4.73	5.82	6.83
May	4.83	4.92	3.75	1974	18	10.82	1995	1.25	1992	11.7	7.9	3.1	1.4	1.63	2.09	2.75	3.32	3.86	4.42	5.04	5.75	6.67	8.09	9.40
Jun	4.37	4.12	6.20	2000	24	9.67	2000	1.69	1972	9.6	6.8	3.0	1.1	1.62	2.03	2.62	3.11	3.57	4.05	4.57	5.17	5.94	7.12	8.20
Jul	5.04	3.99	5.10	1979	25	21.42	1993	.16	1983	9.0	6.3	2.7	1.2	.62	1.02	1.73	2.43	3.18	4.00	4.97	6.16	7.78	10.43	13.01
Aug	3.85	3.78	4.75	1973	8	11.39	1977	.80	1993	8.8	6.0	2.6	1.0	.78	1.13	1.70	2.22	2.74	3.29	3.92	4.68	5.68	7.29	8.80
Sep	4.40	3.38	4.60	1961	3	10.57	1986	.93	1990	8.0	5.9	2.8	1.4	1.12	1.53	2.17	2.74	3.30	3.88	4.54	5.32	6.33	7.94	9.44
Oct	2.91	2.69	5.15	1973	11	6.75	1998	.26	1999	7.0	4.9	1.8	.6	.49	.74	1.17	1.57	1.98	2.42	2.93	3.55	4.37	5.70	6.98
Nov	2.58	2.46	2.35	1977	9	5.22	1971	.00	1989	6.8	4.4	1.6	.5	.38	.72	1.16	1.52	1.87	2.25	2.67	3.17	3.82	4.85	5.82
Dec	1.24	1.04	2.60	1980	8	3.55	1980	.00	1996	5.9	2.5	.8	.2	.02	.09	.24	.41	.61	.84	1.13	1.50	2.01	2.90	3.78
Ann	36.93	36.27	6.20	Jun 2000	24	21.42	Jul 1993	.00+	Jan 1997	96.5	61.8	23.5	8.5	24.02	26.43	29.56	31.98	34.14	36.25	38.45	40.89	43.88	48.26	52.08

+ 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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Station: OREGON, MO

COOP ID: 236357

Climate Division: MO 1

NWS Call Sign:

Elevation: 1,045 Feet

Lat: 39°59N

Lon: 95°09W

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	7.3	6.5	2	#	13.0	1979	13	17.5	1979	18	1979	16	11	1979	1.9	1.6	.6	.2	.1	9.7	4.7	1.7	.0
Feb	5.2	4.5	2	#	12.0	1978	13	18.0	1978	14	1978	22	8	1979	1.8	1.4	.6	.3	.1	6.0	3.5	2.0	.9
Mar	3.1	1.1	#	#	5.0	1975	10	13.3	1980	13	1978	5	6	1978	1.2	.9	.5	.2	.0	2.9	2.0	1.2	.6
Apr	.8	.0	#	0	8.0	1992	21	8.0	1992	8	1992	21	#+	1992	.2	.1	.1	.1	.0	.3	.2	.1	.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	.1	.0	#	0	1.0	1980	28	1.0	1980	1	1980	28	#	1980	.1	.1	.0	.0	.0	.1	.0	.0	.0
Nov	1.6	.0	#	0	5.0	1975	26	7.0	1991	5	1975	27	1	1975	.7	.6	.2	.1	.0	1.1	.2	.1	.0
Dec	3.1	1.0	#	#	8.0	1978	31	12.3	1973	6	2000	22	2	1973	1.4	.7	.3	.1	.0	3.3	.4	.0	.0
Ann	21.2	13.1	N/A	N/A	13.0	Jan 1979	13	18.0	Feb 1978	18	Jan 1979	16	11	Jan 1979	7.3	5.4	2.3	1.0	.2	23.4	11.0	5.1	1.5

+ 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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Lon: 95°09W

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	5/08	5/04	5/01	4/28	4/26	4/24	4/21	4/18	4/14
32	4/30	4/26	4/23	4/20	4/17	4/15	4/12	4/09	4/04
28	4/20	4/16	4/12	4/09	4/06	4/04	4/01	3/28	3/23
24	4/13	4/07	4/03	3/30	3/27	3/24	3/20	3/16	3/10
20	4/01	3/24	3/19	3/14	3/10	3/05	2/28	2/23	2/15
16	3/23	3/15	3/10	3/05	3/01	2/25	2/20	2/15	2/07
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	9/20	9/25	9/29	10/02	10/05	10/08	10/11	10/15	10/20
32	9/26	10/02	10/06	10/09	10/12	10/16	10/19	10/23	10/29
28	10/08	10/15	10/20	10/24	10/28	11/01	11/05	11/10	11/16
24	10/16	10/23	10/29	11/03	11/07	11/11	11/16	11/21	11/29
20	11/04	11/11	11/15	11/19	11/23	11/27	12/01	12/06	12/12
16	11/15	11/20	11/24	11/27	12/01	12/04	12/07	12/11	12/16
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	179	173	169	165	161	158	154	150	143
32	197	190	185	181	177	174	169	164	158
28	224	217	212	208	204	200	195	190	184
24	254	244	236	230	224	218	212	205	195
20	293	281	272	265	258	251	244	235	223
16	303	293	286	280	274	268	262	254	244

* 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)													
Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1302	1004	770	405	159	15	0	12	74	329	750	1162	5982
60	1147	864	616	273	81	3	0	2	24	199	603	1007	4819
57	1054	787	531	204	49	1	0	0	10	135	518	914	4203
55	992	735	473	164	33	0	0	0	5	100	464	852	3818
50	844	605	338	84	10	0	0	0	0	42	335	706	2964
32	370	235	54	0	0	0	0	0	0	0	56	258	973

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	92	156	306	591	940	1193	1364	1317	1029	700	296	119	8103
55	1	11	13	65	260	503	651	604	344	87	13	1	2553
57	0	7	8	45	214	443	589	542	289	60	8	0	2205
60	0	0	1	24	153	355	496	451	214	31	2	0	1727
65	0	0	0	6	76	218	341	306	113	6	0	0	1066
70	0	0	0	1	29	107	197	181	48	1	0	0	564

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	6	44	130	382	708	969	1133	1076	795	482	117	21	6	50	180	562	1270	2239	3372	4448	5243	5725	5842	5863
45	0	16	67	258	553	819	978	921	646	341	52	5	0	16	83	341	894	1713	2691	3612	4258	4599	4651	4656
50	0	3	31	157	400	669	823	766	498	216	19	2	0	3	34	191	591	1260	2083	2849	3347	3563	3582	3584
55	0	0	9	86	258	519	668	611	361	116	6	0	0	0	9	95	353	872	1540	2151	2512	2628	2634	2634
60	0	0	0	37	139	370	513	456	236	49	0	0	0	0	0	37	176	546	1059	1515	1751	1800	1800	1800
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	6	37	104	232	428	650	775	729	515	300	71	13	6	43	147	379	807	1457	2232	2961	3476	3776	3847	3860

(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.
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.

- | | |
|---|---|
| <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 |
|---|---|

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