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: PRINEVILLE 4 NW, OR **COOP ID: 356883**

Climate Division: OR 7 **NWS Call Sign:** **Elevation: 2,840 Feet** **Lat: 44˚20N** **Lon: 120˚54W**

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	41.9	21.0	31.5	68	1934	31	37.0	1999	-35	1930	21	15.4	1979	1040	0	.0	.0	7.9	4.1	26.7	1.2
Feb	48.1	23.7	35.9	75	1995	23	40.7	1992	-24+	1933	9	25.4	1993	816	0	.0	.0	13.3	1.6	23.5	.7
Mar	54.5	25.3	39.9	81	1966	29	44.9	1986	4+	1955	5	35.9	1975	779	0	.0	.0	23.0	.0	24.5	.0
Apr	60.7	28.0	44.4	90	1987	27	49.7	1987	7+	1966	19	38.5	1975	620	0	.0	@	27.9	.0	20.0	.0
May	68.5	34.1	51.3	99+	1986	30	57.2	1992	13	1954	1	47.3	1977	425	0	.0	1.0	30.9	.0	11.8	.0
Jun	77.0	40.3	58.7	102+	1992	23	63.2	1986	25+	1996	19	54.6	1980	206	15	.1	3.9	30.0	.0	2.8	.0
Jul	85.8	42.8	64.3	104+	1994	21	69.5	1998	28+	1948	2	58.2	1993	93	72	1.2	13.0	31.0	.0	.6	.0
Aug	85.7	41.6	63.7	105	1972	7	67.2	1991	23	1937	29	59.3	1980	95	53	1.4	11.6	31.0	.0	1.0	.0
Sep	77.8	34.7	56.3	107	1998	1	60.8	1990	14	1965	17	50.6	1986	277	14	.2	4.3	30.0	.0	9.8	.0
Oct	65.7	28.6	47.2	93	1980	5	53.5	1988	6	1971	29	43.5	1984	553	0	.0	.4	29.2	.0	20.8	.0
Nov	49.4	25.2	37.3	78	1949	1	44.5	1999	-15	1935	3	26.0	1985	831	0	.0	.0	15.8	.7	21.9	.3
Dec	41.7	20.8	31.3	69	1939	5	37.3	1980	-34	1972	8	22.3	1985	1047	0	.0	.0	7.2	3.6	26.9	1.1
Ann	63.1	30.5	46.8	107	Sep 1998	1	69.5	Jul 1998	-35	Jan 1930	21	15.4	Jan 1979	6782	154	2.9	34.2	277.2	10.0	190.3	3.3

\+ 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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1928-2001

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

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: PRINEVILLE 4 NW, OR **COOP ID: 356883**

Climate Division: OR 7 **NWS Call Sign:** **Elevation: 2,840 Feet** **Lat: 44˚20N** **Lon: 120˚54W**

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	1.14	.98	1.35	1989	9	2.78	1995	.05	1994
Feb	1.00	.87	1.80	1996	4	2.96	1996	.01	1990
Mar	.95	.90	.96	1940	31	2.00	1989	.22	1992
Apr	.80	.57	1.08	1978	26	2.57	1989	.00	1977
May	1.06	.92	10.24	1955	17	4.40	1998	.03	1975
Jun	.84	.63	1.54	1934	3	2.00	1992	.00	2000
Jul	.58	.25	1.62	1995	20	3.96	1987	.00+	1994
Aug	.45	.18	1.51	1976	7	4.30	1976	.00+	1994
Sep	.41	.27	1.17	1957	27	1.88	1986	.00+	2000
Oct	.76	.71	1.50	1998	30	1.85	1992	.00	1988
Nov	1.30	1.08	1.87	1996	18	3.21	1996	.25	1976
Dec	1.20	.94	1.67	1929	18	4.08	1981	.02	1976
Ann	10.49	10.03	10.24	May 1955	17	4.40	May 1998	.00+	Sep 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.7	3.8	.5	.1
Feb	8.9	3.4	.3	@
Mar	9.0	3.6	.2	.0
Apr	7.8	2.6	.2	@
May	7.3	3.3	.4	.1
Jun	5.2	2.3	.3	.1
Jul	3.4	1.4	.3	.1
Aug	2.8	1.2	.2	@
Sep	4.3	1.6	@	.0
Oct	5.5	2.5	.3	@
Nov	9.8	4.3	.5	@
Dec	8.9	3.7	.5	.1
Ann	81.6	33.7	3.7	.5

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	.29	.46	.62	.78	.95	1.15	1.40	1.72	2.25	2.75
Feb	.13	.21	.35	.49	.64	.80	.99	1.23	1.54	2.07	2.57
Mar	.24	.33	.47	.59	.71	.84	.98	1.15	1.37	1.72	2.05
Apr	.07	.17	.30	.42	.54	.67	.81	.99	1.23	1.62	1.99
May	.12	.20	.35	.50	.65	.83	1.03	1.29	1.64	2.21	2.77
Jun	.02	.07	.18	.29	.43	.59	.78	1.02	1.37	1.95	2.54
Jul	.00	.00	.04	.11	.20	.31	.47	.67	.98	1.52	2.08
Aug	.00	.00	.00	.03	.10	.19	.32	.50	.78	1.28	1.80
Sep	.00	.00	.01	.07	.14	.22	.34	.48	.69	1.06	1.44
Oct	.02	.07	.17	.28	.40	.54	.71	.92	1.22	1.73	2.23
Nov	.27	.39	.58	.75	.93	1.12	1.33	1.58	1.92	2.46	2.97
Dec	.08	.16	.31	.47	.66	.87	1.13	1.45	1.90	2.66	3.42
Ann	6.14	6.92	7.95	8.76	9.49	10.21	10.97	11.82	12.87	14.42	15.79

\+ 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: 1928-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Services

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: PRINEVILLE 4 NW, OR **COOP ID: 356883**

Climate Division: OR 7 **NWS Call Sign:** **Elevation: 2,840 Feet** **Lat: 44°20N** **Lon: 120°54W**

Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	2.1	1.2	#	0
Feb	.8	.4	#	0
Mar	.5	.0	#	0
Apr	.2	.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	.1	.0	#	0
Nov	1.5	.0	#	0
Dec	2.2	.5	#	0
Ann	7.4	2.1	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	4.6	1973	9	9.1	1973	6	1979	15	3	1979
Feb	4.0	1994	6	4.0	1994	3	1979	4	#+	1999
Mar	4.5	1972	1	4.5	1972	4	1972	1	#+	1999
Apr	3.0	1978	6	3.0	1978	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	1.8	1971	30	2.8	1971	1	1971	30	#	1971
Nov	13.0	1973	5	17.1	1973	5	1978	22	1+	1985
Dec	6.0	1981	26	11.2	1972	6	1972	12	1	1972
Ann	13.0	Nov 1973	5	17.1	Nov 1973	6+	Jan 1979	15	3	Jan 1979

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.5	.9	.2	.0	.0
Feb	1.5	.8	.2	.0	.0
Mar	.3	.2	@	.0	.0
Apr	.1	.1	@	.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	.1	.1	.0	.0	.0
Nov	.8	.6	.1	@	@
Dec	1.7	.9	.3	.1	.0
Ann	6.0	3.6	.8	.1	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	2.2	.1	.1	.0
Feb	.2	.1	.0	.0
Mar	.1	.1	.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	.1	.0	.0	.0
Nov	.4	.3	.2	.0
Dec	1.1	.7	.3	.0
Ann	4.1	1.3	.6	.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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: PRINEVILLE 4 NW, OR **COOP ID: 356883**

Climate Division: OR 7 **NWS Call Sign:** **Elevation: 2,840 Feet** **Lat: 44˚20N** **Lon: 120˚54W**

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	7/27	7/23	7/19	7/17	7/14	7/11	7/09	7/05	7/01
32	7/18	7/11	7/05	7/01	6/27	6/22	6/18	6/12	6/05
28	6/15	6/09	6/05	6/01	5/29	5/26	5/22	5/18	5/13
24	5/20	5/15	5/11	5/08	5/05	5/02	4/29	4/25	4/20
20	5/10	5/03	4/28	4/24	4/21	4/17	4/13	4/08	4/02
16	4/30	4/20	4/13	4/07	4/02	3/27	3/22	3/15	3/05

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	7/31	8/05	8/08	8/11	8/14	8/17	8/19	8/23	8/27
32	8/17	8/22	8/25	8/28	8/31	9/03	9/05	9/09	9/14
28	9/01	9/06	9/10	9/13	9/16	9/19	9/22	9/25	9/30
24	9/17	9/22	9/26	9/29	10/02	10/05	10/08	10/11	10/16
20	10/01	10/05	10/09	10/12	10/15	10/17	10/20	10/24	10/28
16	10/10	10/17	10/22	10/27	10/31	11/04	11/09	11/14	11/21

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	48	42	38	34	30	26	23	18	12
32	91	82	75	70	64	59	54	47	38
28	133	125	119	114	109	104	99	93	85
24	170	163	157	153	149	144	140	135	127
20	197	190	185	180	176	172	168	163	156
16	245	233	225	218	211	205	198	189	178

***** 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/normals/usnormals.html

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: PRINEVILLE 4 NW, OR **COOP ID: 356883**

Climate Division: OR 7 **NWS Call Sign:** **Elevation: 2,840 Feet** **Lat: 44˚20N** **Lon: 120˚54W**

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	1040	816	779	620	425	206	93	95	277	553	831	1047	6782
60	885	676	624	470	278	98	29	29	161	399	681	892	5222
57	792	592	531	383	197	54	12	11	106	308	591	799	4376
55	730	536	469	327	151	32	6	5	76	249	533	737	3851
50	586	400	315	199	65	6	0	0	26	125	394	584	2700
32	170	54	7	4	0	0	0	0	0	1	61	151	448

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	152	162	251	374	598	799	1002	981	726	471	220	127	5863
55	0	0	0	7	36	141	295	273	113	6	2	0	873
57	0	0	0	4	20	103	239	217	83	3	0	0	669
60	0	0	0	0	8	57	163	142	47	1	0	0	418
65	0	0	0	0	0	15	72	53	14	0	0	0	154
70	0	0	0	0	0	2	19	11	3	0	0	0	35

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	24	49	89	191	391	583	786	764	521	271	75	29	24	73	162	353	744	1327	2113	2877	3398	3669	3744	3773
45	1	10	30	94	249	433	631	609	373	152	24	2	1	11	41	135	384	817	1448	2057	2430	2582	2606	2608
50	0	0	2	36	134	286	476	455	237	64	1	0	0	0	2	38	172	458	934	1389	1626	1690	1691	1691
55	0	0	0	6	62	161	325	305	126	18	0	0	0	0	0	6	68	229	554	859	985	1003	1003	1003
60	0	0	0	0	24	70	187	167	49	4	0	0	0	0	0	0	24	94	281	448	497	501	501	501
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	19	46	103	186	308	411	521	521	415	265	62	18	19	65	168	354	662	1073	1594	2115	2530	2795	2857	2875

(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