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: ROCKVILLE 5 N, OR **COOP ID: 357277**

Climate Division: OR 9 **NWS Call Sign:** **Elevation: 3,670 Feet** **Lat: 43˚22N** **Lon: 117˚07W**

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	38.0	18.9	28.5	62+	1971	31	37.1	1998	-24	1979	7	15.9	1979	1133	0	.0	.0	3.3	8.5	28.0	2.6
Feb	44.5	22.7	33.6	69+	1986	25	39.0	1983	-28	1985	4	23.4	1989	880	0	.0	.0	8.5	2.9	24.7	.9
Mar	53.8	26.5	40.2	79+	1978	29	44.8	1986	-5	1976	3	34.5	1976	771	0	.0	.0	21.6	.3	25.0	.1
Apr	62.7	30.4	46.6	88+	1987	27	52.2	1987	8	1988	8	39.5	1975	553	0	.0	.0	27.7	.0	19.4	.0
May	70.8	37.0	53.9	95	1966	26	58.2	1992	18+	1999	10	50.2	1977	345	1	.0	.5	30.7	.0	9.9	.0
Jun	79.8	43.0	61.4	100+	2000	28	66.6	1977	25+	1984	1	56.6	1993	153	44	.1	4.2	30.0	.0	2.4	.0
Jul	88.4	47.6	68.0	103	1988	21	72.2	1985	28+	1986	17	59.7	1993	46	137	.4	15.2	31.0	.0	.3	.0
Aug	87.4	46.7	67.1	102	1998	5	72.5	1991	26+	1992	24	62.3	1993	54	118	.6	13.4	31.0	.0	.6	.0
Sep	77.0	38.4	57.7	96+	1998	6	62.1	1998	17+	1972	25	52.7	1985	234	15	.0	1.9	30.0	.0	8.7	.0
Oct	63.9	30.3	47.1	90	1992	1	54.1	1988	3	1971	29	43.8	1995	554	0	.0	@	29.2	.0	20.5	.0
Nov	47.8	24.3	36.1	73	1999	7	41.2	1995	-14	1977	20	27.1	1985	869	0	.0	.0	12.8	1.5	24.3	.6
Dec	38.3	18.5	28.4	64	1972	1	35.0	1977	-33	1990	22	14.7	1985	1134	0	.0	.0	4.1	8.1	28.5	2.7
Ann	62.7	32.0	47.4	103	Jul 1988	21	72.5	Aug 1991	-33	Dec 1990	22	14.7	Dec 1985	6726	315	1.1	35.2	259.9	21.3	192.3	6.9

\+ 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: 1963-2001

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

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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	1.01	.98	.92	1969	20	3.15	1997	.10	1992
Feb	.95	1.02	.80	1983	13	2.17	1986	.00	1971
Mar	1.41	1.34	1.21	1993	17	3.12	1993	.20	1976
Apr	1.35	1.30	1.18	1969	6	3.94	1978	.30	1989
May	1.64	1.37	2.00	1987	26	5.14	1998	.12	1976
Jun	1.11	.88	1.10	1991	29	2.57	1993	.10	1989
Jul	.54	.26	1.18	1985	30	2.15	1985	.00+	2000
Aug	.53	.23	1.85	1979	13	3.28	1979	.00+	2000
Sep	.62	.41	.96	1970	4	2.10	1982	.00+	1999
Oct	.85	.70	1.08	2000	13	3.10	2000	.00+	1998
Nov	1.16	.95	.72	1996	22	2.37	1984	.10	1999
Dec	1.11	.89	1.16	1964	23	3.46	1983	.10	1989
Ann	12.28	11.55	2.00	May 1987	26	5.14	May 1998	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	5.5	5.1	.3	.0
Feb	4.9	4.4	.1	.0
Mar	5.9	5.5	.5	.1
Apr	5.8	5.2	.5	.1
May	5.6	5.4	.7	.1
Jun	4.1	3.8	.6	@
Jul	1.9	1.8	.2	@
Aug	1.7	1.7	.3	.1
Sep	2.3	2.1	.3	.0
Oct	3.3	3.2	.4	@
Nov	5.8	5.2	.2	.0
Dec	5.5	5.2	.1	.0
Ann	52.3	48.6	4.2	.4

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	.16	.25	.40	.54	.68	.83	1.01	1.23	1.52	1.99	2.44
Feb	.13	.25	.41	.55	.68	.82	.98	1.17	1.42	1.81	2.18
Mar	.28	.41	.61	.80	.99	1.20	1.43	1.71	2.09	2.68	3.25
Apr	.34	.47	.66	.84	1.01	1.19	1.39	1.63	1.94	2.44	2.90
May	.24	.37	.61	.84	1.08	1.34	1.64	2.00	2.50	3.30	4.08
Jun	.16	.26	.42	.57	.73	.91	1.11	1.36	1.69	2.24	2.76
Jul	.00	.00	.00	.10	.21	.33	.48	.67	.93	1.37	1.81
Aug	.00	.00	.00	.00	.13	.27	.44	.66	.95	1.45	1.95
Sep	.00	.00	.00	.13	.28	.43	.60	.80	1.08	1.53	1.97
Oct	.00	.00	.25	.43	.58	.73	.90	1.10	1.36	1.76	2.14
Nov	.27	.37	.54	.70	.85	1.01	1.19	1.40	1.68	2.13	2.55
Dec	.21	.31	.47	.62	.77	.94	1.12	1.35	1.65	2.13	2.59
Ann	7.07	7.99	9.22	10.18	11.06	11.92	12.83	13.85	15.10	16.97	18.62

\+ 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: 1963-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	4.2	3.3	1	#	6.0	1989	22	15.0	1993	10	1989	7	5	1984	2.1	2.0	.4	.1	.0	6.9	4.1	1.9	.1
Feb	2.6	1.0	#	#	8.0	1995	13	14.0	1976	8	1995	14	2	1995	1.2	1.2	.5	.2	.0	2.9	1.5	.5	.0
Mar	1.9	.5	#	0	10.0	1980	21	10.0	1980	6	1980	21	1	1976	.8	.8	.2	.1	@	.4	@	@	.0
Apr	.3	.0	#	0	3.0	1973	19	4.0	1982	#+	1988	7	#+	1988	.2	.2	@	.0	.0	.0	.0	.0	.0
May	.2	.0	#	0	2.0	1975	3	4.0	1983	1	1975	3	#	1975	.1	.1	.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	#	1971	29	#	1971	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.2	.0	#	0	3.0	1991	29	3.0	1991	1	1991	30	#	1991	.1	.1	@	.0	.0	.1	.0	.0	.0
Nov	2.1	1.0	#	#	4.5	1977	21	11.0	1985	10	1985	30	3	1985	1.1	1.1	.2	.0	.0	1.3	.5	@	.0
Dec	6.0	5.0	1	#	6.5	1983	24	19.5	1983	14	1985	2	4	1983	2.4	2.3	.8	.2	.0	6.4	3.2	1.8	.2
Ann	17.5	10.8	N/A	N/A	10.0	Mar 1980	21	19.5	Dec 1983	14	Dec 1985	2	5	Jan 1984	8.0	7.8	2.1	.6	@	18.0	9.3	4.2	.3

+ 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	7/21	7/16	7/12	7/09	7/06	7/03	6/30	6/26	6/21
32	7/08	7/02	6/28	6/24	6/21	6/17	6/14	6/09	6/03
28	6/24	6/14	6/08	6/02	5/28	5/22	5/16	5/10	4/30
24	5/21	5/15	5/10	5/06	5/03	4/29	4/25	4/21	4/15
20	5/16	5/08	5/01	4/26	4/22	4/17	4/12	4/05	3/28
16	4/22	4/12	4/06	3/31	3/26	3/21	3/15	3/09	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	8/05	8/11	8/16	8/20	8/23	8/27	8/31	9/05	9/11
32	8/23	8/28	8/31	9/03	9/06	9/09	9/12	9/16	9/21
28	9/06	9/10	9/12	9/15	9/17	9/19	9/22	9/25	9/29
24	9/15	9/20	9/23	9/26	9/28	10/01	10/03	10/07	10/11
20	9/24	9/30	10/04	10/08	10/11	10/15	10/19	10/23	10/29
16	10/08	10/14	10/18	10/21	10/25	10/28	11/01	11/05	11/11

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	74	65	59	53	48	43	37	31	22
32	102	93	87	82	77	72	67	60	52
28	144	133	125	118	112	106	99	91	80
24	170	162	157	152	148	143	138	133	125
20	204	193	185	178	172	166	159	152	141
16	242	232	224	218	212	206	200	193	182

***** 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	1133	880	771	553	345	153	46	54	234	554	869	1134	6726
60	978	740	616	406	202	69	11	14	121	399	719	979	5254
57	885	656	523	322	131	35	3	4	71	308	629	886	4453
55	823	600	461	269	92	21	1	2	46	250	569	824	3958
50	674	460	311	155	29	4	0	0	10	125	428	669	2865
32	222	85	11	2	0	0	0	0	0	1	72	211	604

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	111	129	263	439	679	881	1115	1087	771	470	193	101	6239
55	0	0	0	16	58	211	403	375	127	5	0	0	1195
57	0	0	0	9	35	166	343	316	92	2	0	0	963
60	0	0	0	3	13	110	258	232	52	0	0	0	668
65	0	0	0	0	1	44	137	118	15	0	0	0	315
70	0	0	0	0	0	12	56	44	3	0	0	0	115

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	10	27	81	205	424	633	855	827	512	228	49	12	10	37	118	323	747	1380	2235	3062	3574	3802	3851	3863
45	0	2	23	104	278	483	700	672	368	119	18	2	0	2	25	129	407	890	1590	2262	2630	2749	2767	2769
50	0	0	1	44	154	335	545	518	235	48	2	0	0	0	1	45	199	534	1079	1597	1832	1880	1882	1882
55	0	0	0	12	71	202	390	363	122	9	0	0	0	0	0	12	83	285	675	1038	1160	1169	1169	1169
60	0	0	0	0	25	102	246	219	48	2	0	0	0	0	0	0	25	127	373	592	640	642	642	642
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	1	21	88	198	324	440	551	547	412	228	50	5	1	22	110	308	632	1072	1623	2170	2582	2810	2860	2865

(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

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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