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: POMEROY, WA **COOP ID: 456610**

Climate Division: WA10 **NWS Call Sign:** **Elevation: 1,900 Feet** **Lat: 46˚28N** **Lon: 117˚35W**

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	39.5	23.1	31.3	67	1992	31	40.5	1994	-22+	1957	27	14.2	1979	1044	0	.0	.0	6.4	7.0	22.2	1.1
Feb	45.7	26.9	36.3	71	1986	24	42.7	1991	-17+	1950	3	23.6	1989	803	0	.0	.0	10.9	2.9	17.6	.5
Mar	53.2	31.3	42.3	77	1966	29	47.3	1986	6	1955	5	37.2	1975	706	0	.0	.0	22.3	.1	14.8	.0
Apr	60.5	36.7	48.6	98	1977	24	54.7	1990	16	1966	19	42.9	1975	492	0	.0	.2	28.4	.0	7.1	.0
May	68.1	42.6	55.4	101+	1986	31	63.0	1993	20	1954	1	51.0	1974	310	11	.1	.9	30.9	.0	1.9	.0
Jun	76.2	48.4	62.3	104	1992	24	68.5	1986	30	1999	8	58.0	1991	138	56	.2	4.3	30.0	.0	.1	.0
Jul	85.6	52.8	69.2	110+	1990	12	75.0	1985	35	1952	6	64.2	1993	33	163	2.6	13.9	31.0	.0	.0	.0
Aug	85.2	52.1	68.7	109	1961	5	73.8	1971	31	1992	24	62.9	1980	42	156	2.8	13.3	31.0	.0	@	.0
Sep	76.3	45.0	60.7	102	1950	3	65.5	1976	26+	1970	14	55.3	1985	177	46	.2	3.7	30.0	.0	.8	.0
Oct	63.2	36.3	49.8	90+	1992	1	53.8	1988	10	1971	28	45.4	1984	472	0	.0	.1	29.6	@	7.8	.0
Nov	47.4	30.2	38.8	78	1975	4	45.4	1999	-14	1959	14	25.2	1985	791	0	.0	.0	13.2	1.6	15.6	.2
Dec	40.2	24.8	32.5	66	1980	27	38.8	1980	-27	1968	30	21.4	1985	1009	0	.0	.0	5.9	7.1	23.4	1.0
Ann	61.8	37.5	49.7	110+	Jul 1990	12	75.0	Jul 1985	-27	Dec 1968	30	14.2	Jan 1979	6017	432	5.9	36.4	269.6	18.7	111.3	2.8

+ 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: 1948-2001

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

Issue Date: February 2004

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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	2.03	1.86	1.45	1988	11	4.45	1989	.34	1985
Feb	1.71	1.56	.85	1989	1	3.80	1986	.50	1977
Mar	1.63	1.62	1.09	1988	29	3.35	1988	.27	1992
Apr	1.35	1.11	1.12	1996	24	3.54	1993	.24	1977
May	1.59	1.43	2.00	2000	30	4.27	2000	.46	1992
Jun	1.15	.92	.82	1974	5	2.98	1971	.14	1973
Jul	.63	.57	1.00	1983	25	2.20	1983	.00	1985
Aug	.82	.61	1.50	1991	6	2.18	1991	.00	1988
Sep	.87	.83	1.12	1966	14	2.78	2000	.00+	1991
Oct	1.19	1.22	1.38	1994	27	3.56	1994	.00	1987
Nov	2.09	1.97	2.00	1994	1	4.54	1994	.19	1976
Dec	2.06	2.03	1.37	1996	25	5.58	1996	.49	1992
Ann	17.12+	17.54+	2.00+	May 2000	30	5.58	Dec 1996	.00+	Sep 1991

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.4	5.9	.9	.1
Feb	10.1	5.4	.6	.0
Mar	9.8	5.3	.5	.1
Apr	8.9	4.6	.5	@
May	8.4	4.7	.8	@
Jun	6.8	3.8	.5	.0
Jul	4.2	2.0	.3	@
Aug	4.2	2.4	.4	.1
Sep	4.8	2.4	.3	.0
Oct	6.4	3.3	.5	.1
Nov	11.8	6.8	.8	.1
Dec	11.1	6.8	1.0	@
Ann	97.9	53.4	7.1	.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	.53	.72	1.02	1.28	1.53	1.80	2.10	2.45	2.91	3.63	4.31
Feb	.58	.74	.98	1.18	1.37	1.57	1.78	2.03	2.36	2.86	3.32
Mar	.55	.71	.93	1.12	1.31	1.50	1.70	1.95	2.26	2.74	3.18
Apr	.36	.49	.69	.86	1.02	1.20	1.39	1.62	1.93	2.40	2.84
May	.56	.71	.93	1.11	1.29	1.47	1.66	1.89	2.18	2.62	3.03
Jun	.23	.33	.50	.66	.81	.98	1.17	1.40	1.70	2.19	2.64
Jul	.04	.10	.19	.29	.38	.49	.62	.78	.99	1.34	1.68
Aug	.01	.05	.15	.26	.39	.54	.74	.98	1.34	1.94	2.55
Sep	.00	.00	.09	.22	.36	.54	.76	1.04	1.45	2.16	2.87
Oct	.04	.13	.29	.47	.66	.87	1.13	1.46	1.91	2.67	3.42
Nov	.66	.86	1.15	1.41	1.65	1.90	2.18	2.50	2.92	3.57	4.17
Dec	.55	.75	1.04	1.31	1.56	1.83	2.13	2.48	2.94	3.66	4.34
Ann	11.69	12.72	14.05	15.07	15.98	16.86	17.77	18.78	20.02	21.81	23.37

+ 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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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	7.6	5.5	1	0
Feb	1.1	.0	#	0
Mar	.3	.0	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
Nov	1.0	.0	#	0
Dec	4.2	2.7	#	0
Ann	14.3	8.2	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	14.0	1980	9	18.3	1980	19	1980	10	7	1978
Feb	9.5	1989	1	9.5	1989	8	1985	8	3+	1985
Mar	5.0	1989	2	5.0	1989	0	0	0	0	0
Apr	.0	0	0	.0	0	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	2.0	1971	27	2.0	1971	2	1971	27	#	1971
Nov	5.0	1978	19	5.0+	1978	7	1985	29	2	1985
Dec	11.0	1973	27	13.0	1973	11	1973	27	5	1983
Ann	14.0	Jan 1980	9	18.3	Jan 1980	19	Jan 1980	10	7	Jan 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	2.5	1.9	.6	.2	.1
Feb	.7	.4	.2	.1	.0
Mar	.1	.1	.1	.1	.0
Apr	.0	.0	.0	.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	.5	.4	.1	.1	.0
Dec	1.7	1.3	.4	.2	.1
Ann	5.6	4.2	1.4	.7	.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	2.6	.9	.8	.2
Feb	.3	.1	.0	.0
Mar	.0	.0	.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	@	.0	.0	.0
Nov	.2	@	@	.0
Dec	1.4	.3	.2	.1
Ann	4.5	1.3	1.0	.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	6/13	6/07	6/03	5/30	5/27	5/23	5/20	5/15	5/09
32	5/27	5/20	5/15	5/10	5/06	5/02	4/27	4/22	4/15
28	5/07	4/30	4/24	4/20	4/15	4/11	4/06	4/01	3/24
24	4/17	4/08	4/02	3/28	3/23	3/19	3/13	3/07	2/27
20	3/23	3/13	3/07	3/01	2/24	2/19	2/13	2/07	1/29
16	3/05	2/23	2/16	2/10	2/04	1/29	1/23	1/16	1/06

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	9/04	9/09	9/14	9/17	9/21	9/24	9/28	10/02	10/08
32	9/16	9/22	9/26	9/29	10/03	10/06	10/09	10/14	10/19
28	10/03	10/08	10/12	10/15	10/18	10/21	10/24	10/27	11/01
24	10/16	10/23	10/28	11/01	11/05	11/09	11/13	11/18	11/25
20	10/28	11/06	11/12	11/18	11/23	11/29	12/04	12/11	12/20
16	10/30	11/11	11/19	11/26	12/03	12/09	12/17	12/25	1/06

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	140	132	126	121	116	112	107	101	92
32	179	169	161	155	149	143	137	129	119
28	214	204	197	191	185	179	173	166	156
24	262	249	241	233	226	219	211	203	190
20	312	298	288	280	272	264	255	245	231
16	341	326	316	308	300	292	284	275	262

***** 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	1044	803	706	492	310	138	33	42	177	472	791	1009	6017
60	889	663	551	349	183	62	8	11	87	319	641	854	4617
57	801	579	458	268	125	32	2	4	50	232	557	761	3869
55	744	523	397	219	92	19	0	2	32	180	501	699	3408
50	600	391	252	119	34	4	0	0	8	78	366	553	2405
32	201	59	5	0	0	0	0	0	0	0	62	141	468

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	180	180	322	498	724	909	1153	1137	859	552	261	155	6930
55	10	0	1	27	103	238	440	425	201	18	10	0	1473
57	5	0	0	16	73	190	379	365	159	8	6	0	1201
60	0	0	0	7	39	130	292	280	107	2	0	0	857
65	0	0	0	0	11	56	163	156	46	0	0	0	432
70	0	0	0	0	1	17	73	70	15	0	0	0	176

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	41	72	154	314	523	726	961	957	668	358	98	35	41	113	267	581	1104	1830	2791	3748	4416	4774	4872	4907
45	7	24	61	182	372	576	806	802	518	219	40	10	7	31	92	274	646	1222	2028	2830	3348	3567	3607	3617
50	0	0	22	89	232	427	651	647	375	117	12	0	0	0	22	111	343	770	1421	2068	2443	2560	2572	2572
55	0	0	0	38	121	282	496	492	238	47	0	0	0	0	0	38	159	441	937	1429	1667	1714	1714	1714
60	0	0	0	10	51	160	343	339	127	14	0	0	0	0	0	10	61	221	564	903	1030	1044	1044	1044
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	16	33	93	195	323	449	597	594	427	237	45	14	16	49	142	337	660	1109	1706	2300	2727	2964	3009	3023

(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:
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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