

# Climatology of the United States No. 20

National Climatic Data Center  
Federal Building  
151 Patton Avenue  
Asheville, North Carolina 28801  
www.ncdc.noaa.gov

Station: PORT ORFORD 2, OR

1971-2000

COOP ID: 356784

Climate Division: OR 1

NWS Call Sign:

Elevation: 42 Feet

Lat: 42° 45N

Lon: 124° 30W

## 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	53.5	39.5	46.5	76	1968	22	50.9	1981	21	1980	29	42.8	1972	574	0	.0	.0	26.2	.0	4.5	.0
Feb	54.6	41.0	47.8	75+	1993	4	51.2	2000	19	1989	5	41.5	1989	482	0	.0	.0	25.2	.1	2.7	.0
Mar	55.0	41.2	48.1	77	1978	18	51.7	1978	27+	1975	25	43.2	1971	509	0	.0	.0	28.9	.0	1.3	.0
Apr	57.1	42.5	49.8	84	1999	16	53.4	1992	28	1973	21	45.8	1975	456	0	.0	.0	29.5	.0	.4	.0
May	60.6	46.1	53.4	91	1970	31	57.0	1992	31+	1982	11	50.8	1971	362	0	.0	.0	30.9	.0	.1	.0
Jun	64.1	49.7	56.9	88	1970	1	59.4	1978	28	1973	10	54.6	1971	243	0	.0	.0	30.0	.0	.0	.0
Jul	67.3	52.5	59.9	87	1994	22	62.2	1997	39+	1974	24	56.9	1999	160	2	.0	.0	31.0	.0	.0	.0
Aug	68.4	52.9	60.7	86	1992	24	62.5	1977	35	1969	9	57.3	1973	139	4	.0	.0	31.0	.0	.0	.0
Sep	67.8	50.9	59.4	93	1981	6	63.6	1979	36	1970	30	57.4	1972	173	3	.0	.1	30.0	.0	.0	.0
Oct	63.0	46.5	54.8	89	1987	5	57.8	1979	28	1971	28	52.4	1971	318	0	.0	.0	31.0	.0	.1	.0
Nov	56.5	43.1	49.8	76	1986	3	53.2	1999	24	1978	14	44.7	1994	457	0	.0	.0	29.0	.0	1.5	.0
Dec	53.5	39.8	46.7	80	1980	15	50.9	2000	13+	1990	21	40.4	1990	570	0	.0	.0	26.5	.1	4.6	.0
Ann	60.1	45.5	52.8	93	Sep 1981	6	63.6	Sep 1979	13+	Dec 1990	21	40.4	Dec 1990	4443	9	.0	.1	349.2	.2	15.2	.0

+ 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](http://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: 1963-2001

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

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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	11.40	11.79	4.51	1974	15	19.47	1995	1.20	1985	17.6	14.4	8.8	3.8	3.91	4.99	6.56	7.89	9.16	10.47	11.90	13.57	15.71	19.02	22.07
Feb	9.57	8.77	3.55	1994	17	19.21	1986	1.83	1988	16.5	13.7	6.8	2.9	3.10	4.00	5.34	6.49	7.59	8.72	9.97	11.43	13.31	16.23	18.93
Mar	9.69	10.28	5.80	1972	2	16.71	1974	3.89	1978	17.9	15.0	7.1	2.7	4.50	5.35	6.52	7.46	8.34	9.22	10.16	11.24	12.59	14.63	16.47
Apr	5.75	4.74	3.44	1993	3	13.04	1993	1.72+	1977	14.6	10.8	4.0	1.3	1.68	2.23	3.05	3.76	4.46	5.18	5.97	6.91	8.12	10.02	11.78
May	3.85	3.74	2.22	1991	8	7.39	1993	.03	1992	10.5	7.5	2.6	1.0	.50	.81	1.35	1.89	2.45	3.08	3.80	4.70	5.91	7.89	9.81
Jun	2.11	1.78	2.93	1971	25	4.75	1995	.12	1991	6.9	4.6	1.4	.3	.34	.52	.83	1.12	1.42	1.75	2.12	2.58	3.19	4.18	5.12
Jul	.63	.35	1.96	1993	22	3.39	1983	.00+	1994	2.9	1.4	.3	.1	.00	.00	.04	.12	.21	.34	.50	.73	1.06	1.64	2.25
Aug	1.20	.50	2.00	1972	16	4.29	1976	.00+	2000	3.5	2.1	.8	.4	.00	.00	.00	.12	.31	.57	.91	1.38	2.07	3.31	4.57
Sep	2.02	1.17	2.06	1986	25	7.84	1986	.00+	1993	5.4	3.5	1.3	.5	.00	.03	.19	.42	.73	1.13	1.65	2.35	3.38	5.21	7.10
Oct	4.86	4.38	3.26	1981	6	12.10	1975	.32	1978	9.9	7.4	3.3	1.4	.57	.95	1.63	2.31	3.03	3.83	4.77	5.94	7.52	10.13	12.66
Nov	10.89	9.69	5.65	1996	19	30.50	1973	3.26	1993	18.6	14.8	8.4	3.0	3.44	4.47	6.01	7.32	8.58	9.90	11.34	13.03	15.20	18.59	21.73
Dec	12.24	11.43	7.53	1987	3	24.37	1981	2.24	1976	17.6	14.5	8.3	3.8	3.42	4.58	6.34	7.88	9.38	10.95	12.69	14.74	17.40	21.58	25.48
Ann	74.21	72.74	7.53	Dec 1987	3	30.50	Nov 1973	.00+	Aug 2000	141.9	109.7	53.1	21.2	50.84	55.30	61.05	65.44	69.35	73.15	77.08	81.44	86.75	94.48	101.20

+ 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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**Elevation: 42 Feet**

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**Lon: 124° 30W**

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	#	.0	0	0	#	1979	27	#+	1979	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.1	.0	#	0	1.0	1989	2	2.4	1989	#	1989	9	#	1989	.1	.1	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1971	4	#	1971	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	#	.0	0	0	#	1975	4	#	1975	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	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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.2	.0	#	0	2.6	1972	7	3.5	1990	2	1990	21	#	1990	.1	.1	.0	.0	.0	.2	.0	.0	.0
Ann	.3	.0	N/A	N/A	2.6	Dec 1972	7	3.5	Dec 1990	2	Dec 1990	21	#+	Dec 1990	.2	.2	.0	.0	.0	.2	.0	.0	.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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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	5/30	5/16	5/06	4/27	4/19	4/11	4/02	3/23	3/09
32	5/02	4/13	3/30	3/18	3/07	2/24	2/12	1/29	1/10
28	3/10	2/22	2/09	1/29	1/19	1/07	12/23	11/26	0/00
24	1/25	1/03	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
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	10/16	10/23	10/28	11/01	11/05	11/09	11/13	11/18	11/25
32	11/06	11/14	11/20	11/25	11/30	12/05	12/10	12/16	12/26
28	11/16	12/01	12/12	12/22	1/01	1/12	1/27	0/00	0/00
24	12/19	1/15	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	253	234	221	210	199	188	177	164	145
32	326	302	287	275	264	252	240	226	207
28	>365	>365	>365	>365	344	323	308	293	275
24	>365	>365	>365	>365	>365	>365	>365	>365	>365
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

\* 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	574	482	509	456	362	243	160	139	173	318	457	570	4443
60	419	342	369	306	209	98	42	32	57	167	307	415	2763
57	328	262	280	218	126	36	9	6	18	92	222	326	1923
55	270	210	223	163	82	13	2	1	7	54	169	268	1462
50	141	102	107	57	16	0	0	0	0	7	70	143	643
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	449	442	500	534	661	747	866	887	820	706	533	453	7598
55	6	8	10	7	30	71	155	175	136	47	13	9	667
57	1	4	5	2	12	34	99	118	88	22	6	5	396
60	0	0	0	0	2	6	40	52	37	5	0	0	142
65	0	0	0	0	0	0	2	4	3	0	0	0	9
70	0	0	0	0	0	0	0	0	0	0	0	0	0

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	232	246	277	317	429	522	630	649	594	483	313	241	232	478	755	1072	1501	2023	2653	3302	3896	4379	4692	4933
45	107	117	131	168	274	372	475	494	444	328	166	108	107	224	355	523	797	1169	1644	2138	2582	2910	3076	3184
50	27	30	36	54	127	222	320	339	294	179	58	33	27	57	93	147	274	496	816	1155	1449	1628	1686	1719
55	0	2	0	7	35	82	165	185	149	61	7	1	0	2	2	9	44	126	291	476	625	686	693	694
60	0	0	0	0	2	9	41	51	40	11	0	0	0	0	0	0	2	11	52	103	143	154	154	154
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	82	86	101	131	191	249	328	345	311	236	121	85	82	168	269	400	591	840	1168	1513	1824	2060	2181	2266

(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](http://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](http://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"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)