

# 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: PAISLEY, OR**

**1971-2000**

**COOP ID: 356426**

**Climate Division: OR 7**

**NWS Call Sign:**

**Elevation: 4,360 Feet Lat: 42° 42N**

**Lon: 120° 32W**

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	42.1	22.2	32.2	65+	2001	4	39.4	1986	-27	1962	22	24.7	1979	1018	0	.0	.0	5.5	4.6	25.3	.9
Feb	46.9	25.3	36.1	72	1995	23	43.1	1995	-25	1989	4	23.9	1989	809	0	.0	.0	10.9	1.9	21.9	.4
Mar	52.1	28.5	40.3	76	1994	14	46.0	1972	-6+	1974	9	36.0	1976	766	0	.0	.0	18.5	.4	21.6	.1
Apr	59.5	32.3	45.9	85	1981	30	53.4	1987	11+	1976	1	38.3	1975	572	0	.0	.0	24.7	.0	15.9	.0
May	67.6	38.5	53.1	93	1954	18	60.8	1992	10	1988	1	46.2	1977	378	7	.0	.1	30.0	.0	7.1	.0
Jun	76.1	44.0	60.1	98	1970	2	65.4	1986	22	1973	18	55.9	1980	180	32	.0	1.3	29.9	.0	1.5	.0
Jul	84.8	48.2	66.5	100	1960	18	70.8	1994	29	1986	5	59.5	1993	64	110	.0	9.1	31.0	.0	.2	.0
Aug	84.5	47.6	66.1	101	1961	4	71.0	1971	27	1999	31	60.8	1976	66	99	.1	8.5	31.0	.0	.3	.0
Sep	76.8	40.3	58.6	99	1955	2	62.1	1974	18	1970	14	52.2	1986	217	24	.0	1.4	29.9	.0	4.4	.0
Oct	65.6	32.6	49.1	90	1980	3	56.3	1988	9+	1989	29	42.9	1984	494	1	.0	@	28.5	@	14.3	.0
Nov	49.2	25.8	37.5	75+	1949	3	44.7	1995	-8	1955	15	29.3	1985	826	0	.0	.0	13.9	1.1	22.0	.2
Dec	41.7	21.2	31.5	67	1972	1	36.4	1973	-28	1972	9	26.0	1972	1040	0	.0	.0	5.5	3.9	25.6	1.4
Ann	62.2	33.9	48.1	101	Aug 1961	4	71.0	Aug 1971	-28	Dec 1972	9	23.9	Feb 1989	6430	273	.1	20.4	259.3	11.9	160.1	3.0

+ 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: 1948-2001

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

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**Elevation: 4,360 Feet Lat: 42° 42N**

**Lon: 120° 32W**

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	1.29	1.18	3.00	1997	2	3.74	1997	.09	1976	8.4	3.4	.6	.2	.11	.19	.36	.54	.74	.96	1.23	1.57	2.03	2.81	3.58
Feb	.98	.75	1.04	1976	26	2.93	1986	.11+	1990	7.2	3.1	.3	@	.11	.19	.32	.46	.61	.77	.96	1.20	1.53	2.06	2.58
Mar	1.09	.95	.94	1983	30	3.10	1974	.09	1988	8.3	3.6	.3	.0	.13	.22	.37	.52	.68	.86	1.07	1.33	1.68	2.26	2.82
Apr	.87	.77	1.26	2000	18	3.27	1988	.00	1977	7.1	3.5	.2	@	.07	.16	.30	.43	.56	.71	.87	1.08	1.35	1.80	2.23
May	1.00	.92	.86+	1966	29	3.24	1998	.12	1999	6.6	3.3	.3	.0	.15	.23	.38	.52	.66	.82	1.00	1.23	1.53	2.01	2.48
Jun	.91	.67	1.87	1992	26	2.79	1992	.00	1973	5.0	2.7	.4	@	.03	.10	.22	.36	.50	.67	.86	1.11	1.46	2.04	2.61
Jul	.54	.38	1.37	1987	18	3.21	1987	.00+	1989	3.2	1.6	.2	@	.00	.01	.06	.13	.21	.32	.45	.63	.89	1.35	1.82
Aug	.58	.29	1.85	1984	31	3.13	1984	.00+	2000	3.2	1.4	.2	.1	.00	.00	.01	.05	.13	.25	.41	.64	.99	1.63	2.30
Sep	.60	.41	1.27	1993	17	2.33	1985	.00+	1999	3.4	1.6	.2	.1	.00	.00	.09	.19	.31	.43	.58	.76	1.01	1.42	1.83
Oct	.63	.43	1.66	1962	10	2.01	1972	.00+	1998	4.9	2.4	.1	.0	.00	.03	.11	.20	.30	.42	.57	.76	1.03	1.49	1.95
Nov	1.16	.67	1.90	1998	21	5.02	1998	.03	1976	7.7	3.0	.4	.2	.06	.12	.26	.41	.59	.80	1.06	1.40	1.87	2.67	3.47
Dec	1.16	.66	2.01	1964	22	3.79	1981	.11	1998	8.1	3.4	.5	.1	.08	.15	.30	.46	.63	.84	1.09	1.41	1.85	2.60	3.34
Ann	10.81	9.83	3.00	Jan 1997	2	5.02	Nov 1998	.00+	Aug 2000	73.1	33.0	3.7	.7	5.82	6.68	7.85	8.77	9.62	10.45	11.34	12.33	13.57	15.43	17.07

+ 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

Complete documentation available from:  
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**Climate Division: OR 7**

**NWS Call Sign:**

**Elevation: 4,360 Feet**

**Lat: 42° 42N**

**Lon: 120° 32W**

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	2.5	2.0	1	#	7.0	1993	7	7.0	1993	14	1993	8	10	1993	1.5	1.0	.3	.0	.0	3.1	.7	.2	.0
Feb	3.2	1.0	#	#	10.0	1975	2	16.6	1975	12	1999	9	2+	1997	1.4	.8	.3	.1	@	1.9	1.1	.4	.1
Mar	2.1	.0	#	0	8.0	1982	31	12.7	1974	11	1971	16	2	1971	1.0	.5	.2	.2	.0	.9	.5	.2	.0
Apr	1.2	.0	#	0	6.5	1978	6	11.7	1971	4	1982	1	#+	1987	.5	.4	.1	.1	.0	.2	.0	.0	.0
May	.5	.0	#	0	7.4	1974	17	12.0	1974	4	1974	17	#+	1986	.2	.1	.1	@	.0	@	@	.0	.0
Jun	#	.0	#	0	#	1979	17	#+	1979	#	1975	24	#	1975	.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	#	1986	19	#+	1986	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.2	.0	#	0	2.5	1971	15	3.0	1971	3	1971	15	#+	1985	.1	@	.0	.0	.0	.1	@	.0	.0
Nov	1.2	.0	#	0	7.3	1977	21	7.8	1977	7	1977	21	1	1985	.7	.4	.1	.1	.0	.8	.3	.1	.0
Dec	3.1	1.1	1	#	8.0	1983	3	10.2	1971	10	1982	25	3	1983	1.6	1.0	.4	.2	.0	4.0	2.2	1.5	.2
Ann	14.0	4.1	N/A	N/A	10.0	Feb 1975	2	16.6	Feb 1975	14	Jan 1993	8	10	Jan 1993	7.0	4.2	1.5	.7	@	11.0	4.8	2.4	.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

Complete documentation available from:

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**Elevation: 4,360 Feet**

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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	7/15	7/11	7/08	7/05	7/02	6/29	6/25	6/19
32	7/05	6/28	6/23	6/19	6/15	6/11	6/07	6/02	5/26
28	6/07	5/31	5/26	5/22	5/18	5/13	5/09	5/04	4/27
24	5/21	5/14	5/09	5/05	5/02	4/28	4/24	4/19	4/12
20	5/04	4/26	4/20	4/15	4/10	4/05	3/31	3/24	3/16
16	4/17	4/05	3/28	3/21	3/14	3/08	3/01	2/20	2/09
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	8/14	8/19	8/23	8/27	8/30	9/02	9/05	9/09	9/15
32	8/19	8/26	8/30	9/04	9/08	9/11	9/16	9/20	9/27
28	9/12	9/17	9/21	9/24	9/27	9/30	10/03	10/06	10/11
24	9/28	10/03	10/07	10/10	10/14	10/17	10/20	10/24	10/29
20	10/05	10/12	10/16	10/20	10/24	10/27	10/31	11/04	11/11
16	10/17	10/23	10/28	11/01	11/04	11/07	11/11	11/16	11/22
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	79	71	65	60	55	50	45	39	31
32	112	102	95	89	84	78	72	65	56
28	159	150	143	137	132	126	120	114	104
24	193	183	176	170	164	159	152	145	135
20	226	216	208	202	196	190	184	176	166
16	272	259	250	242	234	226	218	209	196

\* 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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

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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	1018	809	766	572	378	180	64	66	217	494	826	1040	6430
60	863	669	611	429	242	89	17	18	115	345	676	885	4959
57	770	585	518	346	175	50	7	7	71	264	586	792	4171
55	708	529	457	294	137	32	2	3	48	214	527	730	3681
50	555	398	313	182	64	8	0	0	14	113	386	575	2608
32	120	62	18	6	0	0	0	0	0	1	50	115	372

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	125	176	276	424	652	841	1070	1056	797	531	214	98	6260
55	0	0	1	22	76	183	359	345	155	31	2	0	1174
57	0	0	0	14	52	142	302	288	118	18	0	0	934
60	0	0	0	6	26	90	219	206	73	7	0	0	627
65	0	0	0	0	7	32	110	99	24	1	0	0	273
70	0	0	0	0	0	8	39	32	5	0	0	0	84

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	21	43	95	217	417	618	843	825	575	307	72	22	21	64	159	376	793	1411	2254	3079	3654	3961	4033	4055
45	2	8	33	118	276	469	688	670	427	183	26	2	2	10	43	161	437	906	1594	2264	2691	2874	2900	2902
50	0	0	2	52	162	329	533	516	290	92	4	0	0	0	2	54	216	545	1078	1594	1884	1976	1980	1980
55	0	0	0	16	78	201	380	363	168	34	0	0	0	0	0	16	94	295	675	1038	1206	1240	1240	1240
60	0	0	0	0	31	104	235	221	76	9	0	0	0	0	0	0	31	135	370	591	667	676	676	676
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	10	38	81	160	284	410	544	538	410	251	51	8	10	48	129	289	573	983	1527	2065	2475	2726	2777	2785

(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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/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> |
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## 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)