

Climatography of the United States No. 20

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

Station: WICKIUP DAM, OR

1971-2000

COOP ID: 359316

Climate Division: OR 5

NWS Call Sign:

Elevation: 4,358 Feet Lat: 43° 41N

Lon: 121° 41W

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	38.6	18.9	28.8	62	1971	31	34.0	1981	-40	1950	31	20.4	1979	1123	0	.0	.0	2.1	6.5	29.3	2.2
Feb	42.4	21.2	31.8	70	1995	24	40.0	1991	-33	1950	2	22.5	1989	931	0	.0	.0	5.2	3.2	27.0	1.3
Mar	47.2	25.1	36.2	73+	1994	29	42.1	1992	-11	1955	5	29.7	1971	894	0	.0	.0	11.1	.6	29.2	.1
Apr	53.3	29.6	41.5	84	1949	19	47.7	1990	7	1947	4	33.6	1975	707	0	.0	.0	17.4	@	23.7	.0
May	61.7	35.8	48.8	95	1983	29	55.8	1992	14	1954	1	43.7	1977	504	0	.0	.1	26.5	.0	13.7	.0
Jun	70.3	42.2	56.3	98	1992	23	61.8	1992	21+	2001	13	52.1	1976	276	13	.0	.5	29.6	.0	2.6	.0
Jul	79.5	46.7	63.1	99+	1994	22	68.3	1985	24	1999	17	56.3	1993	121	61	.0	4.8	30.9	.0	.6	.0
Aug	80.0	45.5	62.8	101	1972	8	67.4	1986	23	1942	30	58.3	1976	115	45	.1	4.5	31.0	.0	.6	.0
Sep	72.9	38.5	55.7	101	1943	25	60.2	1990	13	1945	28	50.2	1986	291	11	@	1.2	29.4	.0	8.5	.0
Oct	61.8	31.8	46.8	88+	1958	4	54.6	1988	0	1971	29	42.0	1984	564	0	.0	.0	25.1	.1	22.4	@
Nov	45.3	27.1	36.2	72	1988	1	40.9	1976	-11	1955	15	27.6	1994	865	0	.0	.0	8.6	1.4	26.0	.4
Dec	38.6	20.5	29.6	58	1942	18	34.0	1973	-22	1972	10	21.9	1990	1099	0	.0	.0	1.4	5.9	29.7	1.8
Ann	57.6	31.9	44.8	101+	Aug 1972	8	68.3	Jul 1985	-40	Jan 1950	31	20.4	Jan 1979	7490	130	.1	11.1	218.3	17.7	213.3	5.8

+ 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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1941-2001

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

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Lon: 121°41W

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	3.46	3.73	2.25	1971	17	6.18	1996	.12	1985	12.9	8.4	2.1	.6	.79	1.11	1.62	2.07	2.53	3.01	3.55	4.19	5.04	6.39	7.66
Feb	2.59	2.33	2.63	1986	18	8.29	1986	.62	1973	12.3	7.5	1.0	.3	.61	.85	1.23	1.57	1.90	2.26	2.66	3.14	3.77	4.76	5.70
Mar	2.01	1.56	1.45	1972	2	4.96	1989	.27	1992	12.2	6.2	.9	.2	.43	.61	.90	1.17	1.44	1.73	2.05	2.44	2.95	3.76	4.54
Apr	1.32	1.22	1.26	1956	11	2.88	1992	.06	1977	9.8	4.0	.5	@	.22	.34	.53	.71	.89	1.10	1.33	1.60	1.98	2.58	3.16
May	1.17	.85	1.43	1957	8	5.24	1998	.17	1975	7.8	3.8	.4	.0	.15	.24	.41	.57	.74	.93	1.16	1.43	1.80	2.40	2.99
Jun	1.01	.89	1.63	1950	12	4.72	1982	.05+	1979	5.8	2.6	.5	.0	.09	.15	.29	.43	.58	.76	.97	1.23	1.59	2.20	2.80
Jul	.81	.56	1.23	1987	18	3.64	1987	.00	1988	3.8	2.3	.4	.1	.01	.04	.12	.22	.35	.50	.70	.95	1.33	1.97	2.63
Aug	.84	.61	1.95	1991	5	3.36	1999	.00+	2000	3.9	2.3	.5	@	.00	.00	.03	.15	.30	.48	.71	1.01	1.43	2.16	2.92
Sep	.81	.73	1.56	1982	20	2.67	1982	.00+	1999	4.7	2.4	.4	@	.00	.00	.07	.23	.39	.56	.77	1.02	1.37	1.93	2.51
Oct	1.33	1.43	2.60	1950	29	3.21	1979	.00+	1988	6.6	3.5	.8	.1	.00	.25	.51	.72	.93	1.14	1.38	1.66	2.03	2.62	3.18
Nov	3.12	2.52	3.94	1996	19	7.68	1973	.27	1976	13.3	7.7	1.8	.4	.49	.76	1.21	1.64	2.08	2.57	3.13	3.81	4.72	6.20	7.62
Dec	3.56	3.23	2.34	1945	28	9.01	1981	.12	1976	13.2	8.8	2.3	.3	.45	.74	1.24	1.74	2.26	2.84	3.51	4.35	5.47	7.32	9.11
Ann	22.03	21.35	3.94	Nov 1996	19	9.01	Dec 1981	.00+	Aug 2000	106.3	59.5	11.6	2.0	13.74	15.26	17.25	18.78	20.17	21.53	22.94	24.52	26.46	29.32	31.82

+ 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: 1941-2001

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

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

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Station: WICKIUP DAM, OR

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Climate Division: OR 5

NWS Call Sign:

Elevation: 4,358 Feet

Lat: 43° 41N

Lon: 121° 41W

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	19.5	19.0	9	7	16.0	1982	4	53.4	1996	44	1993	24	37	1993	8.4	5.9	2.5	1.1	.1	25.7	22.2	18.4	12.3
Feb	17.9	22.2	8	6	14.5	1987	2	42.1	1986	52	1993	22	41	1993	7.4	5.3	2.1	.9	.1	21.2	18.1	14.3	8.5
Mar	10.0	7.4	4	1	10.0	1975	22	32.5	1975	45	1993	1	25	1993	6.7	3.8	1.0	.4	@	13.9	9.5	8.0	5.0
Apr	4.3	2.9	1	#	8.0	1975	15	16.3	1982	35	1978	6	9	1975	3.1	1.5	.4	.1	.0	4.0	1.8	1.2	.4
May	.5	.0	#	#	1.7	1991	18	2.0	1980	2	1998	16	#+	2000	.6	.3	.0	.0	.0	.3	.0	.0	.0
Jun	.0	.0	#	0	.3	1980	3	.3	1980	#+	1996	18	#+	1996	@	.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	1.0	1971	30	1.0	1971	1	1971	30	#+	1982	.1	@	.0	.0	.0	@	.0	.0	.0
Oct	1.7	.3	#	#	5.0	1971	27	8.0	1971	5	1971	28	1	1971	1.0	.7	.2	.1	.0	1.1	.2	.1	.0
Nov	11.2	7.2	2	1	21.0	1973	5	52.0	1973	24	1973	5	10	1994	5.6	4.1	1.3	.6	.1	9.9	5.8	3.6	1.0
Dec	18.4	16.2	5	4	12.0	1985	2	58.7	1992	34	1992	31	15	1992	7.8	5.7	2.4	1.1	.1	20.3	15.0	10.8	6.1
Ann	83.5	75.2	N/A	N/A	21.0	Nov 1973	5	58.7	Dec 1992	52	Feb 1993	22	41	Feb 1993	40.7	27.3	9.9	4.3	.4	96.4	72.6	56.4	33.3

+ 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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Climate Division: OR 5

NWS Call Sign:

Elevation: 4,358 Feet

Lat: 43° 41N

Lon: 121° 41W

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	7/26	7/20	7/16	7/12	7/09	7/05	7/02	6/27	6/21
32	7/15	7/07	7/01	6/26	6/22	6/17	6/12	6/06	5/29
28	6/23	6/15	6/09	6/05	5/31	5/27	5/22	5/17	5/09
24	5/27	5/18	5/11	5/06	5/01	4/25	4/20	4/13	4/04
20	5/11	5/01	4/24	4/17	4/12	4/06	3/31	3/24	3/14
16	4/13	4/04	3/28	3/23	3/17	3/12	3/06	2/27	2/18
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	8/03	8/09	8/13	8/17	8/20	8/24	8/28	9/01	9/07
32	8/24	8/29	9/02	9/05	9/08	9/11	9/14	9/17	9/22
28	9/06	9/11	9/16	9/19	9/23	9/26	9/30	10/04	10/10
24	9/20	9/27	10/02	10/06	10/10	10/14	10/19	10/24	10/31
20	10/03	10/12	10/18	10/23	10/28	11/01	11/06	11/12	11/21
16	10/28	11/05	11/11	11/16	11/21	11/25	11/30	12/06	12/14
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	66	58	52	47	42	37	32	26	18
32	104	95	89	83	78	72	67	60	51
28	146	135	127	120	114	107	100	92	81
24	195	184	176	169	162	156	149	140	129
20	234	222	213	205	198	191	183	175	162
16	282	270	262	254	248	241	234	225	213

* 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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NWS Call Sign:

Elevation: 4,358 Feet Lat: 43°41N

Lon: 121°41W

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	1123	931	894	707	504	276	121	115	291	564	865	1099	7490
60	968	791	739	557	356	158	48	40	171	411	715	944	5898
57	875	707	646	469	273	104	22	16	115	324	625	851	5027
55	813	651	584	412	222	75	13	8	84	269	565	789	4485
50	658	511	431	276	120	25	2	1	30	152	420	634	3260
32	173	114	45	15	1	0	0	0	0	2	57	154	561

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	73	107	173	298	520	726	963	952	710	461	182	77	5242
55	0	0	0	5	28	111	262	248	104	16	0	0	774
57	0	0	0	2	17	81	210	194	74	8	0	0	586
60	0	0	0	0	7	45	142	124	41	3	0	0	362
65	0	0	0	0	0	13	61	45	11	0	0	0	130
70	0	0	0	0	0	2	16	9	1	0	0	0	28

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	0	10	31	109	275	475	695	679	444	206	30	0	0	10	41	150	425	900	1595	2274	2718	2924	2954	2954
45	0	0	1	49	161	331	541	524	303	106	6	0	0	0	1	50	211	542	1083	1607	1910	2016	2022	2022
50	0	0	0	14	81	203	390	374	182	40	0	0	0	0	0	14	95	298	688	1062	1244	1284	1284	1284
55	0	0	0	1	33	105	250	231	86	12	0	0	0	0	0	1	34	139	389	620	706	718	718	718
60	0	0	0	0	6	42	131	114	29	0	0	0	0	0	0	0	6	48	179	293	322	322	322	322
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	13	41	100	206	321	454	461	345	199	24	0	0	13	54	154	360	681	1135	1596	1941	2140	2164	2164

(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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
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">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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