

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: BROOKINGS 2 SE, OR

1971-2000

COOP ID: 351055

Climate Division: OR 1

NWS Call Sign: 4BK

Elevation: 46 Feet

Lat: 42°02N

Lon: 124°15W

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	55.2	41.7	48.5	78+	1934	27	52.8	1981	21+	1962	21	44.6	1972	513	0	.0	.0	26.7	.0	1.6	.0
Feb	56.4	42.5	49.5	83	1988	19	52.9	1992	24	1989	5	44.1	1989	437	0	.0	.0	25.9	.1	1.0	.0
Mar	57.8	42.4	50.1	83	2000	31	54.3	1992	29	1942	24	46.5	1976	448	0	.0	.0	29.5	.0	.5	.0
Apr	59.9	43.7	51.8	92+	1951	10	55.5	1992	31+	1976	1	47.9	1975	396	0	.0	.0	29.6	.0	.1	.0
May	63.4	46.8	55.1	99	1943	24	59.3	1987	32	1965	6	52.6+	1991	307	0	.0	@	30.9	.0	.0	.0
Jun	66.7	49.8	58.3	101+	1995	26	60.9	1985	37	1999	2	55.1	1971	204	1	.1	.4	30.0	.0	.0	.0
Jul	68.1	52.0	60.1	102	1984	3	62.7	1995	39	1963	13	57.4+	1999	158	4	@	.2	31.0	.0	.0	.0
Aug	67.6	52.6	60.1	101	1985	11	63.0	1987	41	1935	21	56.9	1973	155	4	@	.1	31.0	.0	.0	.0
Sep	68.1	51.4	59.8	103	1973	9	64.1	1979	39+	1965	21	57.3	1993	165	7	.1	.6	30.0	.0	.0	.0
Oct	64.6	48.2	56.4	96	1958	1	59.1	1992	32	1935	30	53.0	1971	268	1	.0	.2	30.9	.0	.0	.0
Nov	58.2	44.6	51.4	85	1950	3	54.8	1986	28+	1935	3	46.1	1985	408	0	.0	.0	29.1	.0	.3	.0
Dec	55.1	41.4	48.3	79+	1980	15	52.3	1995	17	1932	11	43.0	1990	519	0	.0	.0	26.9	@	1.6	.0
Ann	61.8	46.4	54.1	103	Sep 1973	9	64.1	Sep 1979	17	Dec 1932	11	43.0	Dec 1990	3978	17	.2	1.5	351.5	.1	5.1	.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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1931-2001

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

016-A

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Lat: 42°02N

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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	11.28	10.94	6.19	1953	17	24.55	1998	.50	1985	17.2	14.3	7.8	3.8	3.21	4.28	5.90	7.30	8.68	10.11	11.70	13.57	16.00	19.80	23.35
Feb	10.14	8.62	5.65	1948	21	21.07	1998	3.24	1988	16.7	14.0	7.6	3.2	3.18	4.14	5.57	6.80	7.98	9.21	10.56	12.14	14.18	17.36	20.30
Mar	9.61	9.60	8.79	1932	18	15.92	1995	4.06	1992	18.2	14.5	7.0	2.7	4.37	5.22	6.39	7.35	8.23	9.13	10.08	11.17	12.55	14.63	16.51
Apr	5.72	4.96	4.38	1937	13	15.34	1993	1.32	1973	13.9	10.4	4.1	1.4	1.63	2.17	2.99	3.71	4.40	5.13	5.93	6.88	8.11	10.04	11.83
May	3.61	3.26	5.97	1963	6	9.92	1993	.01	1982	9.5	6.4	2.5	1.0	.26	.48	.95	1.44	2.00	2.64	3.41	4.38	5.74	8.03	10.30
Jun	1.83	1.35	6.00	1933	9	4.90	1995	.36+	1991	5.9	3.5	1.0	.4	.25	.40	.66	.92	1.18	1.48	1.82	2.23	2.80	3.72	4.61
Jul	.51	.26	3.71	1947	26	2.40	1993	.00+	1980	3.3	1.0	.3	.1	.00	.01	.06	.12	.20	.30	.43	.60	.85	1.29	1.74
Aug	1.04	.29	3.61	1983	29	6.04	1983	.00+	1998	4.5	1.7	.6	.3	.00	.00	.01	.08	.20	.38	.66	1.08	1.73	2.97	4.30
Sep	1.95	.88	3.27	1951	30	7.38	1977	.00	1999	5.5	3.1	1.4	.6	.00	.03	.16	.35	.63	.99	1.49	2.18	3.23	5.13	7.13
Oct	5.22	4.33	5.45	1990	30	12.37	1981	.16	1978	10.0	7.0	3.7	1.8	.60	1.01	1.74	2.46	3.24	4.11	5.12	6.37	8.08	10.89	13.63
Nov	10.58	8.84	5.53	1953	22	26.01	1973	3.82	1993	17.4	13.9	7.8	3.6	3.43	4.43	5.91	7.18	8.39	9.65	11.03	12.64	14.72	17.95	20.93
Dec	11.99	11.18	6.88	1954	30	30.60	1996	2.10	1976	17.6	14.6	8.8	4.2	3.07	4.20	5.94	7.48	9.00	10.60	12.38	14.49	17.25	21.61	25.69
Ann	73.48	71.68	8.79	Mar 1932	18	30.60	Dec 1996	.00+	Sep 1999	139.7	104.4	52.6	23.1	46.01	51.07	57.70	62.82	67.44	71.95	76.67	81.93	88.39	97.89	106.21

+ 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: 1931-2001

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

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Station: BROOKINGS 2 SE, OR

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Climate Division: OR 1

NWS Call Sign: 4BK

Elevation: 46 Feet

Lat: 42°02N

Lon: 124°15W

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	.0	#	0	4.0	1972	26	6.0	1972	4	1972	27	1	1972	.1	.1	@	.0	.0	.1	.1	.0	.0
Feb	#	.0	#	0	#	1996	28	#+	1996	#+	2000	29	#+	2000	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.1	.0	#	0	2.0	1976	2	2.0	1976	#+	1999	30	#+	1999	@	@	.0	.0	.0	.0	.0	.0	.0
Apr	#	.0	#	0	#	1999	8	#	1999	#+	1999	8	#+	1999	.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	#	1997	9	#	1997	.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	.1	.0	#	0	1.0	1972	6	1.0+	1990	#	1998	8	#	1998	.1	.1	.0	.0	.0	.0	.0	.0	.0
Ann	.4	.0	N/A	N/A	4.0	Jan 1972	26	6.0	Jan 1972	4	Jan 1972	27	1	Jan 1972	.2	.2	@	.0	.0	.1	.1	.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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No. 20 1971-2000

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COOP ID: 351055

Climate Division: **OR 1**

NWS Call Sign: **4BK**

Elevation: **46 Feet**

Lat: **42° 02N**

Lon: **124° 15W**

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	5/03	4/23	4/15	4/09	4/04	3/29	3/23	3/15	3/05
32	3/22	3/07	2/23	2/13	2/03	1/23	1/08	0/00	0/00
28	1/22	12/31	0/00	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	0/00	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	11/07	11/15	11/22	11/27	12/02	12/07	12/12	12/18	12/27
32	11/21	12/05	12/16	12/25	1/04	1/15	2/01	0/00	0/00
28	12/30	1/21	0/00	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	0/00	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	279	266	257	249	242	234	226	217	204
32	>365	>365	>365	>365	361	322	299	278	252
28	>365	>365	>365	>365	>365	>365	>365	>365	>365
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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COOP ID: 351055

Climate Division: OR 1 NWS Call Sign: 4BK Elevation: 46 Feet Lat: 42°02N Lon: 124°15W

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	513	437	448	396	307	204	158	155	165	268	408	519	3978
60	358	297	310	247	159	77	47	43	60	129	262	364	2353
57	269	219	224	165	87	30	12	10	22	68	181	275	1562
55	212	169	171	116	52	12	4	3	9	39	134	218	1139
50	97	74	74	35	7	0	0	0	0	5	51	103	446
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	510	487	561	594	717	787	869	871	832	756	582	505	8071
55	9	12	19	20	56	108	161	162	151	83	27	10	818
57	4	6	9	9	28	66	107	107	104	50	13	5	508
60	0	0	3	1	7	23	48	47	52	17	4	0	202
65	0	0	0	0	0	1	4	4	7	1	0	0	17
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	267	279	321	361	477	555	628	629	602	515	347	264	267	546	867	1228	1705	2260	2888	3517	4119	4634	4981	5245
45	133	142	171	213	322	405	473	474	452	360	200	126	133	275	446	659	981	1386	1859	2333	2785	3145	3345	3471
50	37	46	56	85	168	255	318	319	302	207	74	35	37	83	139	224	392	647	965	1284	1586	1793	1867	1902
55	0	3	8	21	58	111	164	165	158	86	12	0	0	3	11	32	90	201	365	530	688	774	786	786
60	0	0	0	1	11	31	50	46	56	24	2	0	0	0	0	1	12	43	93	139	195	219	221	221
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	95	102	128	160	226	274	326	322	310	249	137	93	95	197	325	485	711	985	1311	1633	1943	2192	2329	2422

(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