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: NORTH BEND AP, OR **COOP ID: 356073**

Climate Division: OR 1 **NWS Call Sign: OTH** **Elevation: 6 Feet** **Lat: 43˚25N** **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	52.7	39.4	46.1	74	1940	29	50.0	1995	17	1962	22	40.3	1979	588	0	.0	.0	23.2	.0	5.0	.0
Feb	54.6	40.8	47.7	82	1992	25	52.6	1992	14	1989	5	40.7	1989	485	0	.0	.0	23.9	.1	2.7	.0
Mar	55.5	41.4	48.5	88	1934	9	52.3	1992	27	1976	3	44.1	1975	498	0	.0	.0	28.3	.0	1.0	.0
Apr	57.4	43.0	50.2	88+	1947	13	54.7	1992	28	1968	13	45.0	1975	445	0	.0	.0	29.3	.0	.2	.0
May	60.9	46.9	53.9	94	1939	13	58.6	1997	33	1954	1	51.2	1976	344	0	.0	.0	31.0	.0	.0	.0
Jun	63.8	50.3	57.1	92	1995	28	59.7	1997	39+	1976	26	53.6	1976	238	0	.0	.0	30.0	.0	.0	.0
Jul	66.6	52.6	59.6	96	1931	6	62.2	1995	41	1962	2	57.5	1977	169	1	.0	.0	31.0	.0	.0	.0
Aug	67.6	52.9	60.3	91	1968	30	63.6	1997	42	1937	3	57.5	1988	154	5	.0	.0	31.0	.0	.0	.0
Sep	67.2	50.2	58.7	95	1990	21	63.1	1979	34	1970	13	56.6	1999	195	6	.0	.1	30.0	.0	.0	.0
Oct	63.0	45.9	54.5	95	1991	10	57.9	1979	28	1971	29	50.8	1971	327	0	.0	@	30.9	.0	.2	.0
Nov	56.7	42.6	49.7	76	1933	23	54.1	1995	20	1955	15	43.3	1985	461	0	.0	.0	28.0	.0	1.7	.0
Dec	52.8	39.4	46.1	70	1980	15	50.7	1995	0	1990	19	38.2	1990	586	0	.0	.0	23.5	.2	3.9	.0
Ann	59.9	45.5	52.7	96	Jul 1931	6	63.6	Aug 1997	0	Dec 1990	19	38.2	Dec 1990	4490	12	.0	.1	340.1	.3	14.7	.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/normals/usnormals.html

(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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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	9.54	9.88	4.02	1995	9	20.96	1995	.75	1985
Feb	8.12	7.47	5.16	1937	3	16.26	1986	2.32	1988
Mar	7.94	7.74	4.02	1938	16	14.13	1995	2.37	1978
Apr	5.19	4.14	2.65	1971	9	11.13	1993	1.28	1977
May	3.40	3.10	4.35	1998	20	9.30	1998	.30	1992
Jun	1.72	1.48	2.72	1985	6	4.80	1985	.12	1987
Jul	.51	.40	1.29	1983	1	2.79	1983	.00	1973
Aug	.88	.49	1.51	1983	29	2.72	1971	.00	1974
Sep	1.73	1.13	2.05	1971	28	5.70	1997	.00	1975
Oct	4.62	4.35	11.17	1957	30	12.46	1990	.36	1987
Nov	10.36	9.54	6.67	1996	18	22.69	1973	2.55	1976
Dec	10.42	11.38	5.60	1981	5	20.76	1987	1.70	1989
Ann	64.43	62.77	11.17	Oct 1957	30	22.69	Nov 1973	.00+	Sep 1975

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	19.1	15.2	6.7	2.7
Feb	18.0	13.9	5.5	2.2
Mar	19.7	14.5	5.8	1.9
Apr	16.6	11.8	3.0	.8
May	13.0	7.8	2.3	.4
Jun	9.6	4.5	.8	.3
Jul	4.7	1.7	.1	.1
Aug	5.4	2.2	.5	.1
Sep	6.6	3.9	1.1	.2
Oct	12.1	8.0	3.2	1.2
Nov	19.9	15.9	7.4	2.9
Dec	19.2	15.4	7.2	3.0
Ann	163.9	114.8	43.6	15.8

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	2.52	3.42	4.80	6.02	7.21	8.47	9.86	11.52	13.67	17.07	20.24
Feb	2.93	3.69	4.79	5.72	6.60	7.51	8.49	9.64	11.10	13.36	15.43
Mar	3.02	3.76	4.81	5.69	6.53	7.38	8.30	9.37	10.74	12.83	14.74
Apr	1.38	1.88	2.63	3.28	3.93	4.61	5.36	6.26	7.43	9.25	10.96
May	.66	.96	1.46	1.92	2.39	2.89	3.45	4.14	5.04	6.50	7.88
Jun	.25	.39	.64	.88	1.13	1.40	1.72	2.10	2.62	3.46	4.28
Jul	.01	.03	.09	.15	.23	.33	.45	.61	.84	1.23	1.63
Aug	.01	.04	.13	.24	.38	.54	.76	1.04	1.45	2.16	2.88
Sep	.01	.04	.17	.37	.62	.95	1.39	1.99	2.87	4.46	6.11
Oct	.60	.97	1.63	2.27	2.95	3.70	4.57	5.64	7.09	9.47	11.77
Nov	3.10	4.09	5.56	6.83	8.07	9.35	10.76	12.43	14.58	17.94	21.05
Dec	2.70	3.69	5.20	6.53	7.84	9.22	10.76	12.58	14.95	18.70	22.20
Ann	42.54	46.65	51.99	56.09	59.76	63.33	67.04	71.17	76.21	83.58	90.00

\+ 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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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	.6	.0	#	0	6.3	1971	13	12.3	1971	4	1971	14	#	1972	.2	.1	.1	.1	.0	.1	@	.0	.0
Feb	.2	.0	#	0	2.1	1989	1	6.2	1989	4	1989	4	1	1989	.1	.1	.0	.0	.0	.2	@	.0	.0
Mar	.0	.0	0	0	1.0	1976	1	1.0	1976	0	0	0	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Apr	#	.0	0	0	#	1999	9	#+	1999	#	1975	4	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	#	0	.0	0	0	.0	0	0	0	0	#	1990	.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	.1	.0	0	0	2.0	1975	16	2.0	1975	#+	1985	10	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.3	.0	0	0	3.0	1992	30	3.0	1992	#+	1998	20	0	0	.2	.1	@	.0	.0	.0	.0	.0	.0
Ann	1.2	.0	N/A	N/A	6.3	Jan 1971	13	12.3	Jan 1971	4+	Feb 1989	4	1	Feb 1989	.7	.3	.1	.1	.0	.3	.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

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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	5/03	4/24	4/18	4/13	4/08	4/04	3/29	3/23	3/15
32	4/04	3/22	3/13	3/04	2/25	2/17	2/09	1/31	1/18
28	2/22	2/11	2/03	1/26	1/18	1/09	12/27	0/00	0/00
24	1/21	1/05	12/15	0/00	0/00	0/00	0/00	0/00	0/00
20	1/03	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	10/09	10/19	10/26	11/01	11/07	11/12	11/18	11/26	12/06
32	11/03	11/12	11/19	11/25	12/01	12/06	12/12	12/19	12/29
28	11/20	12/04	12/15	12/25	1/04	1/15	2/02	0/00	0/00
24	12/18	1/11	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	1/02	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	248	235	226	219	211	204	197	188	175
32	331	313	300	289	278	268	257	244	225
28	>365	>365	>365	>365	>365	335	317	303	288
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

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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	588	485	498	445	344	238	169	154	195	327	461	586	4490
60	433	345	358	295	194	99	47	44	81	177	314	431	2818
57	343	266	271	210	116	43	11	11	37	100	230	343	1981
55	285	215	215	157	76	19	3	4	18	61	180	285	1518
50	155	108	102	59	15	1	0	0	1	10	83	158	692
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	436	439	510	546	679	752	855	874	802	696	530	437	7556
55	7	9	12	12	42	81	146	165	129	44	19	9	675
57	4	5	6	5	20	45	91	111	88	21	10	5	411
60	0	0	0	0	5	11	35	50	42	5	3	0	151
65	0	0	0	0	0	0	1	5	6	0	0	0	12
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	210	241	275	317	445	526	620	642	575	465	304	218	210	451	726	1043	1488	2014	2634	3276	3851	4316	4620	4838
45	90	111	131	170	290	376	465	487	425	310	166	95	90	201	332	502	792	1168	1633	2120	2545	2855	3021	3116
50	26	34	38	55	139	226	310	332	275	161	58	26	26	60	98	153	292	518	828	1160	1435	1596	1654	1680
55	0	1	0	5	37	82	155	177	132	50	10	0	0	1	1	6	43	125	280	457	589	639	649	649
60	0	0	0	0	0	4	32	41	30	6	0	0	0	0	0	0	0	4	36	77	107	113	113	113
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	67	81	99	120	188	240	318	336	296	220	117	69	67	148	247	367	555	795	1113	1449	1745	1965	2082	2151

(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