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: IRONSIDE 2 W, OR **COOP ID: 354175**

Climate Division: OR 9 **NWS Call Sign:** **Elevation: 3,915 Feet** **Lat: 44˚19N** **Lon: 117˚59W**

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	33.2	11.6	22.4	60	1962	4	29.7	1999	-22	1962	23	10.1	1979	1322	0	.0	.0	.2	13.2	30.6	3.1
Feb	38.9	17.3	28.1	63+	1995	26	34.4	1991	-19+	1989	7	17.4	1989	1033	0	.0	.0	2.5	5.2	27.2	1.5
Mar	48.9	24.9	36.9	76+	1966	31	44.3	1992	-8	1993	1	29.6	1985	872	0	.0	.0	13.8	.7	26.6	.1
Apr	58.2	30.6	44.4	84+	1987	28	51.0	1990	10	1961	14	36.6	1975	619	0	.0	.0	24.2	.0	17.4	.0
May	66.3	37.1	51.7	94	1986	31	59.3	1992	15	1962	13	47.0	1977	415	3	.0	.2	29.9	.0	6.3	.0
Jun	75.2	43.5	59.4	100	1992	23	66.3	1992	25	1996	19	54.8	1980	211	42	@	2.4	29.9	.0	.9	.0
Jul	85.5	50.8	68.2	105	1967	13	73.2	1985	31	1959	8	58.6	1993	62	158	.3	11.5	31.0	.0	.0	.0
Aug	85.7	50.3	68.0	107	1961	5	74.7	1971	29	1992	24	62.9	1985	60	153	.5	11.2	31.0	.0	.1	.0
Sep	75.6	41.0	58.3	99+	1987	2	66.8	1990	18+	1985	30	51.0	1985	246	44	.0	2.1	29.9	.0	3.2	.0
Oct	63.2	30.6	46.9	90	1956	4	56.1	1988	9	1971	29	41.1	1984	563	1	.0	.0	27.7	.1	15.1	.0
Nov	44.2	21.0	32.6	71	1962	2	38.8	1999	-13	1985	23	21.4	1985	971	0	.0	.0	7.7	2.2	27.0	.4
Dec	34.2	12.3	23.3	57+	1995	10	29.2	1973	-23	1983	23	11.2	1985	1295	0	.0	.0	.9	11.4	30.5	2.8
Ann	59.1	30.9	45.0	107	Aug 1961	5	74.7	Aug 1971	-23	Dec 1983	23	10.1	Jan 1979	7669	401	.8	27.4	228.7	32.8	184.9	7.9

\+ 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: 1955-2001

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

Issue Date: February 2004

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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	1.39	1.28	1.06	1980	12	3.67	1993	.02	1984
Feb	1.14	1.06	1.50	1999	16	3.17	1999	.00	1997
Mar	.98	.87	.80+	1983	4	2.48	1983	.04	1994
Apr	.86	.86	.87	1963	20	2.08	1978	.00	1974
May	1.20	1.09	.78	1985	28	3.73	1998	.15	1992
Jun	1.00	.97	.81	1972	8	2.04+	1980	.20	1973
Jul	.64	.36	1.61	1982	1	2.33	1982	.00+	1999
Aug	.72	.44	1.61	1995	17	2.64	1989	.00+	1991
Sep	.58	.42	1.69	1998	9	2.09	1998	.00+	1999
Oct	.61	.56	.85	1967	3	2.06	2000	.00+	1988
Nov	1.45	1.21	1.73	1996	19	4.16	1973	.23	1976
Dec	1.66	1.36	3.20	1964	23	4.65	1996	.05	1989
Ann	12.23	11.82	3.20	Dec 1964	23	4.65	Dec 1996	.00+	Sep 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.2	3.7	.4	.1
Feb	6.1	3.0	.3	.1
Mar	6.4	3.0	.2	.0
Apr	6.6	2.5	.1	.0
May	7.8	4.0	.2	.0
Jun	6.9	3.1	.2	.0
Jul	4.0	2.2	.3	@
Aug	4.0	1.9	.2	@
Sep	3.9	1.7	.2	@
Oct	4.6	2.2	@	.0
Nov	8.5	4.2	.4	@
Dec	8.7	5.4	.7	@
Ann	74.7	36.9	3.2	.2

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	.16	.27	.46	.66	.86	1.09	1.36	1.70	2.15	2.90	3.63
Feb	.07	.18	.36	.53	.70	.90	1.13	1.41	1.79	2.41	3.01
Mar	.16	.24	.38	.52	.66	.81	.98	1.20	1.48	1.95	2.39
Apr	.06	.15	.28	.41	.54	.69	.85	1.06	1.34	1.79	2.23
May	.20	.30	.48	.64	.81	.99	1.20	1.46	1.80	2.35	2.88
Jun	.23	.32	.47	.60	.73	.87	1.02	1.21	1.45	1.84	2.20
Jul	.00	.00	.12	.22	.33	.46	.61	.80	1.06	1.49	1.92
Aug	.00	.00	.11	.22	.35	.49	.67	.89	1.20	1.72	2.25
Sep	.00	.03	.12	.21	.30	.41	.55	.71	.94	1.34	1.72
Oct	.00	.00	.19	.30	.40	.51	.63	.78	.96	1.27	1.56
Nov	.20	.32	.53	.73	.94	1.17	1.44	1.77	2.21	2.94	3.64
Dec	.20	.33	.56	.79	1.04	1.31	1.63	2.02	2.56	3.44	4.29
Ann	7.50	8.36	9.49	10.37	11.17	11.94	12.76	13.66	14.78	16.43	17.87

\+ 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: 1955-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	9.8	8.3	8	7
Feb	4.2	4.2	6	2
Mar	1.5	.5	1	#
Apr	.5	.0	#	#
May	.1	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	#	.0	0	0
Oct	.3	.0	#	0
Nov	5.3	4.0	1	#
Dec	8.6	8.8	4	3
Ann	30.3	25.8	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	12.0	1979	10	28.0	1979	30	1984	10	28	1984
Feb	6.0	1984	16	11.0	1983	27	1979	6	22	1984
Mar	4.0	1989	6	5.5	1975	16	1984	1	6	1975
Apr	3.0	1975	6	4.3	1975	3	1975	6	#+	1999
May	1.0	1974	18	1.0	1974	1	1975	4	#+	1999
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	#	1984	23	#	1984	0	0	0	0	0
Oct	2.0	1984	28	3.0	1984	1	1975	28	#+	1997
Nov	12.0	1973	5	27.1	1973	15	1973	6	6	1985
Dec	10.0	1988	25	20.0	1979	30	1983	31	16	1984
Ann	12.0+	Jan 1979	10	28.0	Jan 1979	30+	Jan 1984	10	28	Jan 1984

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	4.2	2.9	1.1	.5	.1
Feb	2.6	1.5	.4	@	.0
Mar	1.3	.6	.1	.0	.0
Apr	.6	.2	@	.0	.0
May	.1	@	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.3	.2	.0	.0	.0
Nov	2.8	1.9	.7	.3	.1
Dec	4.5	3.6	1.3	.6	@
Ann	16.4	10.9	3.6	1.4	.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	11.2	8.4	5.5	1.3
Mar	2.2	1.1	.1	.0
Apr	.5	@	.0	.0
May	@	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	@	.0	.0	.0
Nov	3.8	1.6	.6	.1
Dec	10.3	4.1	2.7	1.4
Ann	-9.9	-9.9	-9.9	-9.9

+ 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	7/10	7/05	7/02	6/29	6/27	6/24	6/21	6/18	6/13
32	6/19	6/13	6/10	6/06	6/03	5/31	5/28	5/24	5/19
28	6/03	5/26	5/21	5/16	5/12	5/08	5/03	4/28	4/20
24	5/15	5/07	5/02	4/27	4/22	4/17	4/12	4/07	3/30
20	4/28	4/19	4/12	4/06	3/31	3/25	3/20	3/13	3/03
16	4/03	3/25	3/18	3/13	3/08	3/02	2/25	2/18	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	8/21	8/27	8/31	9/04	9/07	9/11	9/15	9/19	9/25
32	9/01	9/07	9/12	9/15	9/19	9/22	9/25	9/30	10/06
28	9/17	9/23	9/27	10/01	10/04	10/07	10/11	10/15	10/20
24	9/30	10/06	10/10	10/14	10/17	10/20	10/24	10/28	11/03
20	10/11	10/17	10/21	10/25	10/28	10/31	11/04	11/08	11/14
16	10/21	10/27	11/01	11/05	11/09	11/13	11/17	11/22	11/28

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	94	87	81	77	72	68	63	58	50
32	127	120	115	110	106	102	98	93	86
28	172	163	156	150	144	138	132	125	116
24	211	199	191	184	177	170	163	155	143
20	245	233	225	217	210	203	196	187	175
16	277	266	258	252	246	240	233	225	215

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1322	1033	872	619	415	211	62	60	246	563	971	1295	7669
60	1167	893	717	472	274	118	21	20	149	414	821	1140	6206
57	1074	809	624	387	201	76	10	9	103	329	731	1047	5400
55	1012	753	562	333	158	53	5	4	78	277	671	985	4891
50	857	613	413	211	76	18	0	1	33	164	523	830	3739
32	338	189	51	9	0	0	0	0	0	3	111	315	1016

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	39	80	203	380	611	821	1119	1116	789	465	130	42	5795
55	0	0	0	14	57	185	411	408	177	25	0	0	1277
57	0	0	0	8	37	147	354	350	142	16	0	0	1054
60	0	0	0	3	18	99	272	268	97	7	0	0	764
65	0	0	0	0	3	42	158	153	44	1	0	0	401
70	0	0	0	0	0	14	77	72	16	0	0	0	179

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	5	50	179	392	617	904	899	582	274	22	0	0	5	55	234	626	1243	2147	3046	3628	3902	3924	3924
45	0	0	12	92	254	467	749	744	434	155	4	0	0	0	12	104	358	825	1574	2318	2752	2907	2911	2911
50	0	0	0	43	143	326	594	590	297	72	0	0	0	0	0	43	186	512	1106	1696	1993	2065	2065	2065
55	0	0	0	14	72	201	441	439	185	28	0	0	0	0	0	14	86	287	728	1167	1352	1380	1380	1380
60	0	0	0	0	30	108	300	293	95	10	0	0	0	0	0	0	30	138	438	731	826	836	836	836
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	5	49	139	263	391	572	568	392	218	21	0	0	5	54	193	456	847	1419	1987	2379	2597	2618	2618

(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