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: DANNER, OR **COOP ID: 352135**

Climate Division: OR 9 **NWS Call Sign:** **Elevation: 4,225 Feet** **Lat: 42˚57N** **Lon: 117˚20W**

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	37.2	15.7	26.5	62	1953	10	36.0	1998	-44	1937	21	15.1	1979	1196	0	.0	.0	2.2	7.3	28.7	3.6
Feb	43.8	21.2	32.5	69	1950	24	39.5	1995	-46	1933	9	21.0	1989	910	0	.0	.0	7.8	2.2	25.1	1.0
Mar	51.2	25.2	38.2	78+	1969	29	43.7	1978	-12	1976	4	32.8	1985	832	0	.0	.0	19.1	.3	26.6	.1
Apr	59.1	29.4	44.3	87+	1987	27	50.5	1987	10+	1997	3	37.1	1975	624	0	.0	.0	25.6	.0	19.9	.0
May	66.8	36.9	51.9	99	1936	13	57.5	1992	11	1964	3	46.3	1977	408	2	.0	.4	29.8	.0	8.5	.0
Jun	76.2	43.3	59.8	106	1936	22	65.7	1977	23+	1951	4	54.8	1980	189	31	.0	3.9	29.9	.0	1.4	.0
Jul	85.6	48.5	67.1	109	1946	21	71.1	1985	22	1986	5	59.2	1993	59	121	.6	15.1	31.0	.0	.2	.0
Aug	85.0	46.2	65.6	105+	1940	11	69.5	1986	10	1951	14	61.2	1976	66	85	.2	12.4	31.0	.0	.3	.0
Sep	75.2	37.5	56.4	104+	1955	5	61.6	1990	10	1934	26	49.2	1985	272	13	.0	1.9	29.9	.0	7.6	.0
Oct	63.3	27.7	45.5	93	1951	9	51.5	1988	0	1935	30	41.3	1984	604	0	.0	.0	28.2	.0	22.7	.0
Nov	46.6	22.0	34.3	86	1936	19	41.9	1995	-23	1955	15	25.6	1985	920	0	.0	.0	12.7	1.7	25.3	.8
Dec	38.0	16.2	27.1	67	1939	5	35.6	1977	-36	1990	22	18.0	1990	1175	0	.0	.0	3.5	7.0	28.7	3.1
Ann	60.7	30.8	45.8	109	Jul 1946	21	71.1	Jul 1985	-46	Feb 1933	9	15.1	Jan 1979	7255	252	.8	33.7	250.7	18.5	195.0	8.6

\+ 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

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	1.32	1.36	1.45	1984	26	3.91	1997	.09	1990
Feb	1.16	1.20	2.20	1990	10	3.20	1990	.04	1991
Mar	1.28	1.17	1.06	1981	20	3.00	1983	.09	1994
Apr	1.22	1.25	1.28	1981	20	3.18	1978	.30	1977
May	1.26	1.13	1.65	1987	26	4.31	1998	.10	1974
Jun	1.05	1.00	2.00	1932	15	3.04	1984	.00	2000
Jul	.48	.34	1.10	1952	11	2.03	1985	.00+	1999
Aug	.46	.23	1.80	1979	13	2.48	1976	.00+	2000
Sep	.71	.47	1.44	1940	19	2.55	1971	.00+	1999
Oct	.87	.72	1.10	1940	26	3.36	1975	.00+	1988
Nov	1.26	1.17	1.15	1937	19	3.28	1988	.18	1976
Dec	1.21	.90	2.03	1955	23	3.93	1981	.00	1989
Ann	12.28	11.27	2.20	Feb 1990	10	4.31	May 1998	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.0	3.7	.3	@
Feb	7.5	3.8	.1	.1
Mar	7.9	3.8	.2	@
Apr	6.7	3.7	.3	.1
May	6.7	3.6	.4	.2
Jun	5.4	3.2	.4	@
Jul	2.4	1.1	.1	.1
Aug	2.6	1.1	.2	.1
Sep	3.4	2.0	.2	.0
Oct	4.4	2.3	.1	.0
Nov	7.8	3.9	.4	.0
Dec	7.1	3.6	.2	@
Ann	69.9	35.8	2.9	.6

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	.28	.40	.59	.77	.94	1.13	1.34	1.60	1.94	2.48	2.99
Feb	.20	.31	.48	.64	.80	.98	1.18	1.42	1.75	2.27	2.77
Mar	.32	.44	.63	.79	.95	1.13	1.32	1.54	1.84	2.31	2.75
Apr	.37	.49	.66	.81	.96	1.11	1.27	1.46	1.71	2.10	2.46
May	.15	.25	.43	.60	.79	1.00	1.24	1.54	1.94	2.60	3.25
Jun	.09	.20	.37	.53	.68	.85	1.05	1.29	1.61	2.13	2.63
Jul	.00	.00	.00	.00	.16	.29	.44	.62	.86	1.26	1.65
Aug	.00	.00	.00	.06	.14	.25	.38	.55	.79	1.22	1.66
Sep	.00	.00	.02	.12	.24	.39	.59	.85	1.22	1.86	2.52
Oct	.00	.07	.20	.34	.48	.65	.84	1.08	1.40	1.95	2.48
Nov	.25	.36	.55	.72	.89	1.07	1.28	1.53	1.86	2.40	2.90
Dec	.07	.18	.37	.55	.74	.95	1.19	1.49	1.90	2.58	3.24
Ann	7.93	8.74	9.79	10.60	11.33	12.04	12.78	13.60	14.61	16.08	17.37

\+ 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

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	5.3	5.0	1	#
Feb	4.1	2.0	1	#
Mar	5.4	4.0	#	0
Apr	2.1	1.0	#	0
May	.1	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.1	.0	0	0
Oct	.2	.0	#	0
Nov	4.9	4.5	#	#
Dec	6.0	5.0	1	#
Ann	28.2	21.5	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	5.0	1988	4	10.0	1979	11	1982	23	6+	1984
Feb	5.0	1976	29	12.0	1978	8	1990	16	4	1985
Mar	8.0	1974	2	17.0	1985	8	1974	2	1	1985
Apr	6.0	1973	14	10.0	1982	3	1972	12	#+	1982
May	3.0	1975	4	3.0	1975	0	0	0	0	0
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	1.0	1971	27	1.0	1971	0	0	0	0	0
Oct	2.0	1975	28	2.0	1975	1	1971	31	#+	1974
Nov	7.0	1977	21	16.0	1985	12	1985	30	2	1985
Dec	6.0	1971	25	15.0	1981	14	1983	29	4	1983
Ann	8.0	Mar 1974	2	17.0	Mar 1985	14	Dec 1983	29	6+	Jan 1984

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	2.8	2.8	.5	.1	.0
Feb	1.8	1.8	.6	.1	.0
Mar	2.0	2.0	.5	.1	.0
Apr	.9	.9	.3	.1	.0
May	.1	.1	.1	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.1	.1	.0	.0	.0
Oct	.3	.2	.0	.0	.0
Nov	1.6	1.6	.6	.3	.0
Dec	3.2	3.2	.8	.2	.0
Ann	12.8	12.7	3.4	.9	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	8.3	2.4	.6	.0
Feb	1.7	.8	.1	.0
Mar	1.2	.7	.3	.0
Apr	.1	@	.0	.0
May	.0	.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	2.0	.9	.6	.1
Dec	5.3	2.2	.5	.1
Ann	18.6	7.0	2.1	.2

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

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

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	85	75	68	62	56	51	45	38	28
32	115	105	98	92	87	81	75	68	58
28	143	134	128	122	117	112	107	101	92
24	171	163	157	152	147	143	138	132	124
20	206	195	188	181	175	169	163	155	144
16	252	238	228	219	211	203	194	184	170

***** 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	1196	910	832	624	408	189	59	66	272	604	920	1175	7255
60	1041	770	677	476	265	94	16	17	156	450	770	1020	5752
57	948	686	584	390	190	54	6	6	101	358	680	927	4930
55	886	630	522	335	148	35	3	2	72	299	620	865	4417
50	734	495	371	211	67	8	0	0	24	167	475	710	3262
32	265	117	27	7	0	0	0	0	0	2	90	227	735

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	93	131	218	374	617	832	1085	1042	731	421	160	75	5779
55	0	0	0	11	51	177	375	332	113	5	0	0	1064
57	0	0	0	6	32	137	316	273	82	2	0	0	848
60	0	0	0	2	14	87	234	192	47	0	0	0	576
65	0	0	0	0	2	31	121	85	13	0	0	0	252
70	0	0	0	0	0	8	46	24	2	0	0	0	80

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	1	20	67	183	395	633	885	822	523	237	44	8	1	21	88	271	666	1299	2184	3006	3529	3766	3810	3818
45	0	1	17	85	259	483	730	667	380	127	12	0	0	1	18	103	362	845	1575	2242	2622	2749	2761	2761
50	0	0	0	33	145	337	575	513	245	50	1	0	0	0	0	33	178	515	1090	1603	1848	1898	1899	1899
55	0	0	0	7	67	209	420	360	135	11	0	0	0	0	0	7	74	283	703	1063	1198	1209	1209	1209
60	0	0	0	0	25	104	274	220	55	0	0	0	0	0	0	0	25	129	403	623	678	678	678	678
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	22	74	164	294	423	559	540	404	252	49	4	0	22	96	260	554	977	1536	2076	2480	2732	2781	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:
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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