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: SHEAVILLE 1 SE, OR **COOP ID: 357736**

Climate Division: OR 9 **NWS Call Sign:** **Elevation: 4,620 Feet** **Lat: 43˚07N** **Lon: 117˚02W**

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	18.1	27.7	59	1971	19	35.7	1998	-25+	1962	21	16.2	1979	1157	0	.0	.0	2.1	8.5	28.6	2.6
Feb	42.9	22.2	32.6	68+	1986	24	38.5	1992	-23	1956	1	23.2	1989	909	0	.0	.0	5.8	3.0	25.6	1.0
Mar	49.8	26.8	38.3	75+	1978	29	44.5	1986	-10	1955	5	28.9	1976	829	0	.0	.0	15.4	.6	25.6	.2
Apr	57.9	31.4	44.7	86	1987	27	50.4	1990	9	1968	13	38.6	1975	610	0	.0	.0	23.7	.1	18.5	.0
May	66.5	38.2	52.4	92+	1966	26	59.3	1992	15+	1965	6	46.8	1991	396	4	.0	.1	29.3	.0	8.6	.0
Jun	77.3	45.1	61.2	99+	1988	23	67.1	1977	24+	1987	22	55.2	1991	168	53	.0	3.2	30.0	.0	1.8	.0
Jul	87.3	51.6	69.5	104	1960	19	74.4	1985	24	1986	5	59.5	1993	41	178	.5	12.7	31.0	.0	.3	.0
Aug	86.4	50.3	68.4	102+	2000	1	73.0	1986	24	1964	29	63.2	1978	53	157	.4	12.0	31.0	.0	.2	.0
Sep	76.9	41.1	59.0	99	1955	5	64.8	1990	15	1970	14	51.7	1985	219	39	.0	2.5	29.8	.0	4.9	.0
Oct	64.3	32.6	48.5	90+	1987	5	56.9	1988	0	1971	29	43.3	1984	515	1	.0	.1	27.3	@	17.9	@
Nov	47.2	24.4	35.8	77	1980	5	43.6+	1999	-13	1955	15	27.4	2000	877	0	.0	.0	11.8	2.3	25.4	.5
Dec	38.5	17.9	28.2	61	1979	17	34.7	1980	-31	1990	22	19.4	1990	1142	0	.0	.0	3.2	7.7	29.2	2.3
Ann	61.0	33.3	47.2	104	Jul 1960	19	74.4	Jul 1985	-31	Dec 1990	22	16.2	Jan 1979	6916	432	.9	30.6	240.4	22.2	186.6	6.6

\+ 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: 1952-2001

(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	1.83	1.48	3.50	2000	10	5.37	2000	.12	1985
Feb	1.71	1.48	1.73	1986	19	6.00	1983	.17	1988
Mar	1.81	1.69	1.17	1989	2	4.34	1983	.31	1994
Apr	1.59	1.75	1.54	1973	14	4.42	1978	.34	1980
May	1.58	1.10	1.47	1998	13	6.59	1998	.06	1974
Jun	1.33	1.07	1.57	1972	6	4.47	1982	.00	1989
Jul	.54	.28	1.02	1985	31	2.13	1982	.00+	2000
Aug	.50	.22	1.19	1968	18	3.84	1983	.00+	1998
Sep	.70	.43	.94	1959	14	2.01	1986	.00+	1999
Oct	1.11	.90	1.30	1975	7	4.08	1975	.00+	1988
Nov	1.72	1.53	1.02	1981	23	4.81	1988	.28	1993
Dec	1.79	1.40	2.16	1982	14	5.82	1996	.00	1989
Ann	16.21	14.91	3.50	Jan 2000	10	6.59	May 1998	.00+	Jul 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.9	5.1	.6	.1
Feb	7.9	5.1	.4	@
Mar	9.0	5.3	.7	.1
Apr	6.9	4.8	.4	.1
May	6.8	4.6	.7	.1
Jun	4.8	2.9	.7	.1
Jul	2.2	1.4	.4	@
Aug	2.4	1.5	.2	.0
Sep	3.0	2.0	.2	.0
Oct	4.5	3.1	.4	.1
Nov	7.6	5.0	.4	@
Dec	8.0	5.0	.7	.1
Ann	72.0	45.8	5.8	.7

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	.32	.48	.75	1.00	1.25	1.53	1.85	2.24	2.75	3.58	4.37
Feb	.26	.40	.65	.89	1.14	1.41	1.72	2.09	2.60	3.43	4.22
Mar	.49	.67	.93	1.16	1.38	1.61	1.87	2.18	2.58	3.21	3.79
Apr	.39	.54	.77	.97	1.18	1.39	1.63	1.92	2.30	2.89	3.45
May	.13	.24	.45	.67	.91	1.19	1.52	1.93	2.50	3.45	4.39
Jun	.07	.19	.40	.59	.80	1.03	1.30	1.64	2.10	2.85	3.58
Jul	.00	.00	.00	.00	.16	.31	.48	.69	.96	1.43	1.87
Aug	.00	.00	.00	.04	.13	.25	.39	.59	.87	1.36	1.85
Sep	.00	.00	.05	.17	.31	.46	.65	.88	1.20	1.74	2.29
Oct	.00	.08	.26	.43	.62	.83	1.07	1.38	1.80	2.49	3.18
Nov	.41	.57	.82	1.04	1.27	1.50	1.77	2.09	2.50	3.16	3.78
Dec	.13	.31	.60	.86	1.13	1.43	1.78	2.21	2.78	3.72	4.63
Ann	8.60	9.91	11.68	13.08	14.37	15.64	16.99	18.52	20.42	23.25	25.78

\+ 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: 1952-2001
(3) Derived from 1971-2000 serially complete daily data

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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	8.4	7.5	4	3
Feb	5.0	2.5	3	1
Mar	5.2	3.5	1	#
Apr	1.9	.0	#	#
May	.5	.0	#	0
Jun	.0	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	#	0
Oct	.5	.0	#	0
Nov	2.5	1.5	1	#
Dec	5.8	4.5	2	2
Ann	29.8	19.5	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	7.0	1983	19	19.0	1990	20	1993	13	17	1989
Feb	6.0	1976	16	14.0	1979	20	1996	4	16	1993
Mar	10.0	1974	2	13.0	1974	18	1993	5	6	1993
Apr	6.5	1998	14	12.0	1982	3	1977	1	#+	1995
May	3.0	1977	6	4.0	1977	3	1977	6	#+	1980
Jun	.0	0	0	.0	0	#	1991	24	#	1991
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	5	1971	28	#	1971
Oct	5.0	1971	31	6.0+	1991	5	1971	31	#+	1991
Nov	8.0	1982	21	8.0	1979	15	1985	30	4	1985
Dec	10.0	1992	29	16.0	1982	16+	1992	31	11	1983
Ann	10.0+	Dec 1992	29	19.0	Jan 1990	20+	Feb 1996	4	17	Jan 1989

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	4.4	4.1	1.2	.2	.0
Feb	3.2	3.1	1.1	.3	.0
Mar	2.1	1.9	.6	.2	@
Apr	.9	.8	.2	.1	.0
May	.3	.3	@	.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	.2	.2	.1	@	.0
Nov	2.0	2.0	.6	.2	.0
Dec	3.7	3.5	1.0	.3	@
Ann	16.8	15.9	4.8	1.3	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	12.5	9.5	5.8	1.7
Feb	6.5	3.9	2.1	1.4
Mar	2.4	1.3	.6	@
Apr	.2	@	.0	.0
May	.1	.1	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.1	@	@	.0
Nov	2.8	1.6	.8	.1
Dec	8.1	3.6	2.3	.4
Ann	32.7	20.0	11.6	3.6

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

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	8/17	8/23	8/27	8/31	9/03	9/06	9/10	9/14	9/20
32	8/24	8/31	9/05	9/09	9/13	9/16	9/20	9/25	10/02
28	9/12	9/17	9/21	9/24	9/27	9/30	10/03	10/07	10/12
24	9/21	9/27	10/02	10/06	10/10	10/13	10/17	10/22	10/28
20	10/04	10/10	10/13	10/17	10/20	10/23	10/26	10/30	11/05
16	10/22	10/28	11/01	11/05	11/09	11/12	11/16	11/20	11/26

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	85	78	73	68	63	57	51	42
32	117	107	100	93	88	82	76	69	59
28	153	142	134	127	121	114	108	100	89
24	190	178	169	162	155	148	141	132	120
20	226	215	206	199	193	186	179	171	159
16	274	261	251	243	236	228	220	211	198

***** 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	1157	909	829	610	396	168	41	53	219	515	877	1142	6916
60	1002	769	674	463	258	84	12	16	123	366	727	987	5481
57	909	685	581	378	187	49	4	7	79	285	639	894	4697
55	847	629	520	324	146	32	1	3	56	234	582	832	4206
50	692	490	374	204	68	9	0	0	19	130	444	677	3107
32	225	106	37	8	0	0	0	0	0	3	93	199	671

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	91	121	232	388	631	875	1161	1126	810	511	206	81	6233
55	0	0	1	14	64	217	449	417	176	30	5	0	1373
57	0	0	0	8	43	175	389	358	140	18	2	0	1133
60	0	0	0	3	21	120	304	275	93	7	0	0	823
65	0	0	0	0	4	53	178	157	39	1	0	0	432
70	0	0	0	0	0	17	89	73	12	0	0	0	191

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	2	18	65	170	381	618	888	858	560	266	51	6	2	20	85	255	636	1254	2142	3000	3560	3826	3877	3883
45	0	1	19	86	242	469	733	703	418	150	16	0	0	1	20	106	348	817	1550	2253	2671	2821	2837	2837
50	0	0	0	36	134	325	578	549	281	67	1	0	0	0	0	36	170	495	1073	1622	1903	1970	1971	1971
55	0	0	0	13	61	200	424	397	160	17	0	0	0	0	0	13	74	274	698	1095	1255	1272	1272	1272
60	0	0	0	0	24	101	280	257	75	1	0	0	0	0	0	0	24	125	405	662	737	738	738	738
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	15	61	139	264	413	569	551	408	232	47	1	0	15	76	215	479	892	1461	2012	2420	2652	2699	2700

(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