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: SEXTON SUMMIT, OR **COOP ID: 357698**

Climate Division: OR 3 **NWS Call Sign: SXT** **Elevation: 3,832 Feet** **Lat: 42˚36N** **Lon: 123˚22W**

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	42.5	32.5	37.5	65	1971	31	43.3	1981	-2	1962	21	31.0	1974	853	0	.0	.0	4.7	3.5	17.7	.0
Feb	44.1	33.0	38.6	67+	1992	26	45.6	1991	3	1989	5	31.3	1989	741	0	.0	.0	6.0	2.6	14.8	.0
Mar	46.7	32.5	39.6	74	1966	31	47.4	1992	15	1971	1	34.4	1971	772	0	.0	.0	14.4	1.4	16.8	.0
Apr	51.9	34.9	43.4	80	1987	26	50.3	1987	19	1972	17	36.4	1975	648	0	.0	.0	18.3	.4	12.2	.0
May	60.1	39.6	49.9	91	1986	30	58.3	1992	22	1965	6	44.6	1977	470	0	.0	.3	26.1	.0	5.0	.0
Jun	67.5	45.4	56.5	95+	1992	22	61.5	1987	27	1966	1	51.5	1980	267	11	.0	.1	29.0	.0	.4	.0
Jul	75.5	51.8	63.7	94+	1988	19	68.7	1972	36+	1999	3	56.5	1993	127	84	.0	.7	30.9	.0	.0	.0
Aug	75.7	52.7	64.2	97+	1992	10	70.0	1977	38+	1965	28	60.0	1989	101	76	.0	1.2	31.0	.0	.0	.0
Sep	70.3	49.8	60.1	97	1955	4	68.3	1974	30	1950	29	52.6	1986	211	62	.0	.3	28.9	.0	.1	.0
Oct	59.3	43.3	51.3	88	1991	10	60.8	1988	20	1971	28	45.1	1984	440	15	.0	.0	24.7	.1	2.1	.0
Nov	45.7	35.2	40.5	77	1966	1	50.4	1976	11	1955	15	33.1	1985	737	0	.0	.0	7.2	1.6	10.7	.0
Dec	42.0	32.5	37.3	66	1980	16	45.1	1989	-4	1990	22	30.4	1971	860	0	.0	.0	5.2	4.3	17.5	@
Ann	56.8	40.3	48.6	97+	Aug 1992	10	70.0	Aug 1977	-4	Dec 1990	22	30.4	Dec 1971	6227	248	.0	2.6	226.4	13.9	97.3	@

\+ 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: 1948-2001

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

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: SEXTON SUMMIT, OR **COOP ID: 357698**

Climate Division: OR 3 **NWS Call Sign: SXT** **Elevation: 3,832 Feet** **Lat: 42˚36N** **Lon: 123˚22W**

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	4.71	4.01	5.25	1974	15	17.33	1974	.18	1984
Feb	4.29	3.69	3.72	1961	10	8.49	1983	.28	1988
Mar	3.92	3.31	1.91	1972	2	7.36	1971	1.43	2000
Apr	2.38	2.20	1.89	1965	18	4.30	2000	.73	1985
May	1.35	1.09	2.86	1963	5	4.06	1977	.11	1982
Jun	.94	.76	2.16	1978	28	2.80	1978	.10	1999
Jul	.35	.20	1.20	1956	12	1.81	1983	.00+	1988
Aug	.61	.23	1.32	1983	29	4.23	1976	.00+	1992
Sep	1.20	.86	1.80	1977	28	4.26	1977	.00+	1999
Oct	2.93	2.96	4.22	1950	28	6.59	1979	.01	1988
Nov	5.32	4.35	3.89	1961	23	24.09	1973	.74	1976
Dec	5.18	5.41	3.95	1964	21	11.79	1996	.49	1976
Ann	33.18	31.73	5.25	Jan 1974	15	24.09	Nov 1973	.00+	Sep 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	15.6	9.5	2.8	1.1
Feb	15.7	10.2	2.0	.7
Mar	17.1	10.6	2.0	.5
Apr	13.4	7.0	1.1	.1
May	9.8	5.1	.4	@
Jun	5.8	2.4	.3	@
Jul	2.7	1.2	.1	.0
Aug	3.1	1.8	.4	.1
Sep	4.8	2.9	.7	.1
Oct	8.2	5.1	2.0	.5
Nov	16.6	10.5	3.2	1.1
Dec	16.1	10.4	3.2	.9
Ann	128.9	76.7	18.2	5.1

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	.61	.98	1.65	2.31	3.00	3.77	4.66	5.76	7.24	9.68	12.04
Feb	1.11	1.52	2.14	2.69	3.23	3.80	4.43	5.18	6.16	7.71	9.15
Mar	1.50	1.86	2.38	2.82	3.23	3.65	4.10	4.62	5.29	6.32	7.26
Apr	.79	1.02	1.35	1.63	1.90	2.18	2.48	2.84	3.30	4.01	4.66
May	.24	.36	.56	.74	.93	1.14	1.37	1.65	2.02	2.62	3.20
Jun	.20	.28	.42	.54	.67	.81	.96	1.14	1.38	1.76	2.13
Jul	.00	.00	.04	.09	.15	.22	.31	.43	.59	.86	1.15
Aug	.00	.00	.00	.05	.13	.25	.42	.66	1.04	1.73	2.46
Sep	.00	.00	.13	.30	.50	.74	1.04	1.44	2.00	2.98	3.97
Oct	.15	.31	.66	1.05	1.50	2.04	2.69	3.53	4.71	6.74	8.76
Nov	.85	1.31	2.08	2.82	3.57	4.40	5.34	6.49	8.03	10.53	12.93
Dec	.83	1.27	2.02	2.74	3.47	4.28	5.20	6.32	7.82	10.26	12.60
Ann	18.39	20.99	24.45	27.18	29.68	32.14	34.74	37.67	41.30	46.70	51.49

\+ 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: 1948-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Services

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: SEXTON SUMMIT, OR **COOP ID: 357698**

Climate Division: OR 3 **NWS Call Sign: SXT** **Elevation: 3,832 Feet** **Lat: 42°36N** **Lon: 123°22W**

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	13.4	8.3	3	1	9.0	1972	23	31.0	1988	32	1971	14	18	1982	7.1	3.7	1.7	.7	.0	10.4	7.2	5.4	2.8
Feb	17.9	13.0	3	2	14.1	1983	9	43.9	1975	35	1975	5	19	1990	7.4	4.7	1.9	.9	.2	10.6	7.8	6.0	3.0
Mar	16.8	12.1	2	2	12.4	1975	21	35.8	1974	26	1971	5	10	1971	9.3	5.0	1.9	.8	.1	8.6	5.3	3.8	2.2
Apr	10.1	7.9	1	1	10.0	1989	25	31.0	1971	46	1982	7	16	1982	6.2	3.1	.9	.5	.1	4.2	2.7	2.1	.9
May	1.9	1.3	#	0	5.5	1979	6	7.4	1979	6	1979	7	#	1992	2.0	.6	.2	.1	.0	.5	.2	@	.0
Jun	.0	.0	#	0	.5	1971	1	.5	1971	0	0	0	#	1991	.1	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	#	0	.0	0	0	.0	0	0	0	0	#	1999	.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	.2	.0	#	0	3.1	1971	29	3.1	1971	2	1971	29	#	1971	.1	.1	.1	.0	.0	@	.0	.0	.0
Oct	1.2	.0	#	0	4.8	1975	27	9.3	1975	6	1975	28	#	1985	.9	.4	.2	.0	.0	.6	.1	@	.0
Nov	9.5	7.2	#	0	8.3	1973	13	42.6	1973	15	1973	26	3	1973	5.4	2.9	1.0	.4	.0	4.6	2.5	1.4	.3
Dec	14.9	14.3	3	2	17.5	1971	10	36.5	1987	29	1971	30	15	1971	7.4	3.6	2.0	1.1	.1	10.1	7.1	5.5	2.0
Ann	85.9	64.1	N/A	N/A	17.5	Dec 1971	10	43.9	Feb 1975	46	Apr 1982	7	19	Feb 1990	45.9	24.1	9.9	4.5	.5	49.6	32.9	24.2	11.2

+ 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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: SEXTON SUMMIT, OR **COOP ID: 357698**

Climate Division: OR 3 **NWS Call Sign: SXT** **Elevation: 3,832 Feet** **Lat: 42˚36N** **Lon: 123˚22W**

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	6/27	6/20	6/16	6/11	6/08	6/04	5/31	5/26	5/19
32	6/12	6/04	5/29	5/24	5/19	5/14	5/09	5/03	4/24
28	5/17	5/08	5/02	4/26	4/21	4/16	4/10	4/04	3/26
24	4/20	4/01	3/18	3/07	2/23	2/12	1/30	1/14	12/14
20	3/13	2/22	2/08	1/27	1/14	12/30	12/07	0/00	0/00
16	2/11	1/24	1/08	12/13	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	9/15	9/23	9/29	10/04	10/09	10/13	10/18	10/24	11/01
32	10/04	10/13	10/20	10/25	10/30	11/04	11/10	11/16	11/25
28	10/27	11/05	11/11	11/17	11/22	11/27	12/03	12/09	12/18
24	11/10	11/22	12/01	12/08	12/16	12/23	1/01	1/11	1/31
20	11/18	12/03	12/15	12/25	1/05	1/19	2/12	0/00	0/00
16	12/17	1/05	1/25	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	158	146	137	129	122	115	108	99	87
32	205	191	181	172	164	155	147	136	122
28	254	241	231	222	214	206	198	188	174
24	>365	>365	344	316	297	280	264	246	223
20	>365	>365	>365	>365	>365	364	326	301	274
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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: SEXTON SUMMIT, OR **COOP ID: 357698**

Climate Division: OR 3 **NWS Call Sign: SXT** **Elevation: 3,832 Feet** **Lat: 42˚36N** **Lon: 123˚22W**

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	853	741	772	648	470	267	127	101	211	440	737	860	6227
60	698	601	633	500	326	148	55	35	127	310	588	705	4726
57	605	517	540	416	246	94	28	15	86	242	500	614	3903
55	543	461	481	361	199	65	17	9	63	201	445	556	3401
50	393	331	339	235	106	19	4	1	26	117	311	414	2296
32	33	30	30	13	1	0	0	0	0	2	31	69	209

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	204	213	264	355	554	734	980	997	840	601	284	233	6259
55	0	0	3	12	39	109	285	293	214	87	8	7	1057
57	0	0	0	8	24	78	233	238	176	65	3	2	827
60	0	0	0	2	11	42	167	164	127	40	1	0	554
65	0	0	0	0	0	11	84	76	62	15	0	0	248
70	0	0	0	0	0	2	30	22	24	5	0	0	83

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	51	59	116	193	354	492	735	749	597	368	92	54	51	110	226	419	773	1265	2000	2749	3346	3714	3806	3860
45	15	25	46	106	229	346	580	594	450	240	39	23	15	40	86	192	421	767	1347	1941	2391	2631	2670	2693
50	0	3	8	47	134	221	426	439	315	138	13	1	0	3	11	58	192	413	839	1278	1593	1731	1744	1745
55	0	0	0	17	67	118	283	295	195	70	3	0	0	0	0	17	84	202	485	780	975	1045	1048	1048
60	0	0	0	0	31	59	163	168	106	31	0	0	0	0	0	0	31	90	253	421	527	558	558	558
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	10	19	70	119	215	279	448	455	346	181	26	11	10	29	99	218	433	712	1160	1615	1961	2142	2168	2179

(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.
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