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: SEASIDE, OR **COOP ID: 357641**

Climate Division: OR 1 **NWS Call Sign:** **Elevation: 10 Feet** **Lat: 45˚59N** **Lon: 123˚55W**

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	51.6	38.5	45.1	73	1940	30	50.6	1981	11+	1980	29	40.6	1979	619	0	.0	.0	20.2	@	8.5	.0
Feb	54.0	39.4	46.7	89	1931	2	50.5	1992	9	1989	5	39.4	1989	513	0	.0	.0	22.0	.2	6.0	.0
Mar	55.8	40.2	48.0	78+	1947	15	52.4	1986	23	1960	1	45.0	2000	512	0	.0	.0	28.0	.0	4.6	.0
Apr	58.4	42.4	50.4	89	1947	15	53.9	1989	24	1975	5	46.6	1975	439	0	.0	.0	29.4	.0	1.6	.0
May	61.9	46.5	54.2	95	1987	7	57.7	1997	29	1954	1	50.3	1999	336	0	.0	.1	31.0	.0	.1	.0
Jun	64.8	50.2	57.5	98	1966	15	61.7	1978	36+	1974	26	54.9+	1999	225	1	.0	.1	30.0	.0	.0	.0
Jul	67.7	52.9	60.3	105	1961	11	63.2	1983	35	1940	9	57.0	1999	151	7	.0	.2	31.0	.0	.0	.0
Aug	69.0	53.3	61.2	104	1978	7	63.8	1983	38	1945	20	58.3	1973	132	11	.0	.1	31.0	.0	.0	.0
Sep	69.6	50.0	59.8	97+	1955	4	63.4	1979	31+	1983	19	56.3	1999	170	14	.0	.8	30.0	.0	.1	.0
Oct	63.6	45.5	54.6	92+	1987	7	58.1	1978	24	1935	30	52.4	1994	324	0	.0	.1	30.9	.0	.6	.0
Nov	55.7	41.7	48.7	79	1962	1	52.2	1987	14+	1955	15	42.1	1985	489	0	.0	.0	27.0	.0	4.3	.0
Dec	51.6	38.4	45.0	69+	1962	8	48.7	1979	5	1972	8	38.7	1990	621	0	.0	.0	21.6	.5	7.7	.0
Ann	60.3	44.9	52.6	105	Jul 1961	11	63.8	Aug 1983	5	Dec 1972	8	38.7	Dec 1990	4531	33	.0	1.4	332.1	.7	33.5	.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: 1930-2001

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

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

Means/Medians(1)

Month	Mean	Median
Jan	10.27	10.60
Feb	9.57	9.32
Mar	8.44	8.27
Apr	5.74	5.03
May	3.96	4.08
Jun	3.00	2.96
Jul	1.63	1.15
Aug	1.34	1.00
Sep	3.00	3.08
Oct	6.07	5.04
Nov	11.38	11.56
Dec	11.34	11.12
Ann	75.74	74.19

Extremes

Month	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	3.72	1935	22	18.62	1983	.77	1985
Feb	4.21	1936	27	18.81	1999	1.74	1993
Mar	4.00	1935	12	17.79	1997	1.77	1992
Apr	3.07	1996	23	11.94	1996	.91	1977
May	2.06	1933	7	8.32	1999	.86	1992
Jun	2.50	2000	12	6.07	2000	.66	1976
Jul	2.00	1983	13	7.60	1983	.24	1975
Aug	3.10	2001	22	3.69	1977	.08	1998
Sep	3.02	1997	17	9.03	1997	.07	1991
Oct	4.02	1942	31	13.63	1997	.50	1987
Nov	4.19	1960	20	18.63	1998	2.02	1976
Dec	9.90	1933	18	21.78	1998	3.17	1985
Ann	9.90	Dec 1933	18	21.78	Dec 1998	.07	Sep 1991

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	20.3	15.5	7.8	3.1
Feb	18.4	14.5	6.9	2.9
Mar	19.8	15.5	5.9	1.8
Apr	17.2	11.8	3.9	1.0
May	15.1	9.7	2.5	.6
Jun	12.3	6.6	1.9	.2
Jul	8.8	3.7	1.0	.2
Aug	7.7	3.4	.9	@
Sep	9.4	5.4	1.9	.8
Oct	14.1	9.4	4.4	1.8
Nov	20.6	16.4	7.9	3.2
Dec	20.6	16.5	7.7	3.2
Ann	184.3	128.4	52.7	18.8

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	2.83	3.80	5.28	6.58	7.84	9.17	10.64	12.37	14.63	18.18	21.48
Feb	3.29	4.19	5.51	6.62	7.69	8.79	9.99	11.38	13.17	15.94	18.49
Mar	3.30	4.08	5.19	6.12	6.99	7.88	8.84	9.95	11.37	13.54	15.51
Apr	1.90	2.45	3.25	3.93	4.58	5.25	5.99	6.85	7.95	9.67	11.25
May	1.33	1.71	2.26	2.72	3.17	3.63	4.13	4.71	5.47	6.63	7.70
Jun	.93	1.22	1.64	2.00	2.36	2.72	3.12	3.59	4.19	5.14	6.01
Jul	.19	.32	.55	.77	1.02	1.29	1.60	2.00	2.53	3.40	4.26
Aug	.19	.30	.49	.68	.87	1.09	1.34	1.64	2.05	2.72	3.37
Sep	.13	.28	.62	1.01	1.47	2.02	2.70	3.59	4.85	7.01	9.18
Oct	.99	1.52	2.40	3.24	4.10	5.03	6.11	7.41	9.16	11.99	14.70
Nov	4.25	5.31	6.84	8.12	9.33	10.57	11.91	13.47	15.46	18.51	21.31
Dec	4.23	5.29	6.81	8.08	9.29	10.52	11.86	13.42	15.40	18.45	21.24
Ann	52.59	57.03	62.74	67.10	70.97	74.73	78.62	82.92	88.16	95.77	102.37

\+ 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: 1930-2001
(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	.1	.0	#	0	1.0	1972	26	1.0	1972	12	1971	13	1	1971	.1	.1	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	0	0	#	1971	27	#	1971	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1971	5	#	1971	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	#	.0	0	0	#	1972	17	#	1972	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.1	.0	#	0	1.0	1972	5	1.0	1972	1	1972	5	#+	1983	.1	.1	.0	.0	.0	@	.0	.0	.0
Ann	.2	.0	N/A	N/A	1.0+	Dec 1972	5	1.0+	Dec 1972	12	Jan 1971	13	1	Jan 1971	.2	.2	.0	.0	.0	@	.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	5/27	5/20	5/14	5/09	5/05	5/01	4/26	4/20	4/13
32	4/29	4/22	4/17	4/13	4/09	4/05	3/31	3/26	3/20
28	3/23	3/10	2/28	2/20	2/12	2/04	1/26	1/16	12/31
24	2/27	2/14	2/04	1/27	1/18	1/09	12/30	12/14	0/00
20	1/30	1/16	1/03	12/20	0/00	0/00	0/00	0/00	0/00
16	1/07	12/14	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	9/28	10/04	10/08	10/12	10/16	10/19	10/23	10/28	11/03
32	10/08	10/18	10/26	11/01	11/07	11/12	11/19	11/26	12/06
28	10/28	11/08	11/16	11/22	11/28	12/05	12/12	12/20	1/02
24	11/26	12/08	12/17	12/25	1/02	1/11	1/22	2/10	0/00
20	12/11	12/25	1/05	1/19	0/00	0/00	0/00	0/00	0/00
16	12/19	1/12	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	197	185	177	170	163	157	149	141	129
32	251	237	228	219	211	204	195	185	172
28	>365	324	307	295	286	276	267	256	242
24	>365	>365	>365	>365	350	333	319	305	287
20	>365	>365	>365	>365	>365	>365	>365	>365	333
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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	619	513	512	439	336	225	151	132	170	324	489	621	4531
60	464	373	371	289	186	93	46	36	71	177	341	466	2913
57	373	294	281	203	108	41	13	10	32	104	257	374	2090
55	315	241	223	149	69	19	5	4	16	66	205	316	1628
50	181	128	103	51	12	1	0	0	1	13	101	180	771
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	404	411	497	551	687	765	878	902	834	699	501	402	7531
55	6	8	7	10	43	94	170	193	160	52	16	5	764
57	2	4	3	4	21	57	116	137	115	28	8	1	496
60	0	0	0	0	5	19	56	71	65	8	2	0	226
65	0	0	0	0	0	1	7	11	14	0	0	0	33
70	0	0	0	0	0	0	0	0	1	0	0	0	1

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	173	193	234	297	427	512	620	643	585	442	255	170	173	366	600	897	1324	1836	2456	3099	3684	4126	4381	4551
45	70	82	100	151	272	362	465	488	435	287	123	66	70	152	252	403	675	1037	1502	1990	2425	2712	2835	2901
50	12	21	26	47	125	212	310	333	285	143	38	7	12	33	59	106	231	443	753	1086	1371	1514	1552	1559
55	0	1	0	8	35	75	156	180	143	45	1	0	0	1	1	9	44	119	275	455	598	643	644	644
60	0	0	0	0	2	11	34	47	45	8	0	0	0	0	0	0	2	13	47	94	139	147	147	147
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	53	74	99	131	194	245	325	344	321	223	97	55	53	127	226	357	551	796	1121	1465	1786	2009	2106	2161

(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