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: SCOTTS MILLS 9 SE, OR **COOP ID: 357631**

Climate Division: OR 2 **NWS Call Sign:** **Elevation: 2,315 Feet** **Lat: 44˚57N** **Lon: 122˚31W**

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	43.9	32.0	38.0	69+	1976	31	44.5	1981	4+	1963	11	32.2	1979	839	0	.0	.0	8.1	2.1	16.1	.0
Feb	46.4	33.2	39.8	71+	1968	28	47.1	1991	0+	1989	4	32.2	1989	718	0	.0	.0	9.2	1.0	13.4	.1
Mar	48.8	34.1	41.5	72	1960	19	47.6	1992	10	1971	1	36.7	1971	713	0	.0	.0	13.5	@	14.4	.0
Apr	53.3	36.3	44.8	82	1987	26	49.9	1989	18	1997	5	39.2	1975	607	0	.0	.0	17.8	.0	9.7	.0
May	59.2	40.8	50.0	97	1983	28	57.1	1992	25	1964	2	45.1	1977	466	0	.0	@	26.5	.0	2.4	.0
Jun	64.9	45.4	55.2	94	1992	22	59.7	1992	29	1966	1	51.4+	1980	299	3	.0	.1	29.5	.0	.1	.0
Jul	71.9	49.6	60.8	98	1972	17	65.2	1985	35	1973	1	55.5	1993	160	27	.0	.6	31.0	.0	.0	.0
Aug	72.5	50.2	61.4	99	1992	11	66.0	1986	36	1973	22	56.9	1975	145	33	.0	.9	31.0	.0	.0	.0
Sep	68.2	48.0	58.1	98	1988	2	64.4	1974	28	1972	27	53.1	1986	230	22	.0	.3	29.7	.0	.1	.0
Oct	58.5	42.1	50.3	87+	1991	10	55.8	1987	17	1971	29	45.6	1984	458	1	.0	.0	26.1	.0	2.1	.0
Nov	47.4	35.7	41.6	76	1962	1	48.3	1976	11	1985	23	32.5	1985	704	0	.0	.0	11.4	.5	10.0	.0
Dec	43.3	32.3	37.8	69+	1960	22	43.8	1980	-6	1990	21	29.6	1990	844	0	.0	.0	6.4	1.7	15.8	.1
Ann	56.5	40.0	48.3	99	Aug 1992	11	66.0	Aug 1986	-6	Dec 1990	21	29.6	Dec 1990	6183	86	.0	1.9	240.2	5.3	84.1	.2

\+ 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: 1956-2001

(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	11.64	12.22	5.95	1974	15	20.60	1974	.57	1985
Feb	9.87	9.19	5.35	1996	7	21.21	1996	2.25	1993
Mar	9.03	8.72	3.24	1966	9	16.06	1997	1.80	1992
Apr	6.85	6.30	2.54	1958	20	14.10	1993	3.03	1977
May	5.41	4.71	2.72	1991	17	10.01	1998	.40	1992
Jun	3.55	3.42	2.39	1985	6	9.47	1984	.95	1979
Jul	1.38	1.21	2.28	1987	18	5.26	1983	.19	1984
Aug	1.54	1.40	1.52	1983	29	5.41	1978	.00	1988
Sep	3.35	3.26	2.00	1997	15	7.57	1986	.02	1975
Oct	6.19	6.00	6.20	1994	27	13.66	1994	.13	1987
Nov	12.23	11.93	4.86	1960	24	24.13	1973	2.30	1976
Dec	12.47	11.07	4.41	1998	28	24.66	1996	3.45	1976
Ann	83.51	83.11	6.20	Oct 1994	27	24.66	Dec 1996	.00	Aug 1988

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	19.2	16.0	8.3	3.9
Feb	17.7	14.7	6.9	2.9
Mar	20.2	15.9	6.9	2.3
Apr	18.4	13.6	4.9	1.5
May	16.2	11.1	4.0	1.0
Jun	11.1	7.5	2.3	.7
Jul	6.6	3.5	.8	.2
Aug	6.2	3.6	1.0	.3
Sep	9.3	6.3	2.5	.8
Oct	13.7	9.8	4.4	1.5
Nov	19.8	16.5	9.1	3.9
Dec	20.2	16.9	8.3	4.1
Ann	178.6	135.4	59.4	23.1

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	2.84	3.94	5.64	7.15	8.64	10.22	11.99	14.09	16.84	21.20	25.29
Feb	3.42	4.36	5.71	6.86	7.95	9.08	10.30	11.73	13.57	16.40	19.01
Mar	3.77	4.59	5.75	6.70	7.59	8.49	9.47	10.59	12.01	14.17	16.13
Apr	3.09	3.69	4.54	5.22	5.86	6.50	7.18	7.97	8.96	10.46	11.81
May	1.82	2.33	3.08	3.71	4.33	4.96	5.64	6.45	7.48	9.08	10.56
Jun	1.12	1.46	1.96	2.39	2.80	3.23	3.70	4.25	4.95	6.06	7.08
Jul	.18	.29	.48	.67	.88	1.10	1.36	1.69	2.12	2.84	3.53
Aug	.03	.12	.31	.52	.77	1.06	1.41	1.87	2.51	3.60	4.69
Sep	.16	.33	.72	1.16	1.68	2.29	3.05	4.02	5.40	7.76	10.13
Oct	.93	1.45	2.34	3.20	4.09	5.07	6.19	7.57	9.42	12.42	15.32
Nov	4.37	5.52	7.18	8.58	9.92	11.29	12.78	14.51	16.73	20.16	23.30
Dec	4.17	5.35	7.08	8.55	9.96	11.41	13.01	14.87	17.25	20.96	24.37
Ann	59.63	64.26	70.19	74.68	78.68	82.54	86.52	90.92	96.26	104.00	110.68

\+ 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: 1956-2001
(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	12.7	7.0	2	1	13.5	1982	4	49.2	1982	38	1982	4	16	1982	5.8	3.4	1.8	.8	.2	7.9	5.5	3.9	1.0
Feb	14.3	12.0	2	1	17.5	1996	23	67.8	1990	31	1990	18	17	1990	5.6	3.3	1.8	.9	.1	6.8	5.1	3.8	2.0
Mar	12.6	10.2	1	#	8.5	1977	9	34.3	1999	30	1971	5	11	1971	7.1	3.4	1.4	.7	.0	6.6	4.5	2.8	.6
Apr	5.8	3.2	#	#	10.4	1982	14	28.1	1982	11	1982	15	3	1999	4.5	1.5	.6	.3	@	1.7	.8	.4	@
May	.5	.1	#	0	2.7	1977	5	3.2	1977	1	1977	5	#+	2000	1.2	.1	.0	.0	.0	@	.0	.0	.0
Jun	#	.0	#	0	#	2000	10	#+	2000	#+	2000	10	#+	2000	.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	.4	.0	#	0	6.0	1972	28	6.0	1972	6	1972	28	#+	1997	.3	.1	@	@	.0	.2	.1	@	.0
Nov	6.3	2.0	1	#	13.1	1973	4	32.9	1994	14	1985	23	6	1985	3.0	1.5	.7	.4	.1	3.5	2.6	1.6	.5
Dec	11.1	10.0	1	1	10.8	1971	12	53.4	1971	22	1971	13	9	1971	6.1	3.3	1.2	.6	.1	7.3	4.8	2.8	1.1
Ann	63.7	44.5	N/A	N/A	17.5	Feb 1996	23	67.8	Feb 1990	38	Jan 1982	4	17	Feb 1990	33.6	16.6	7.5	3.7	.5	34.0	23.4	15.3	5.2

+ 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	6/22	6/16	6/12	6/09	6/06	6/02	5/30	5/26	5/20
32	6/01	5/25	5/19	5/15	5/11	5/07	5/02	4/27	4/20
28	5/07	4/26	4/19	4/12	4/06	3/30	3/23	3/16	3/05
24	3/16	3/06	2/26	2/19	2/13	2/06	1/29	1/19	0/00
20	3/11	2/24	2/13	2/04	1/26	1/16	1/04	12/17	0/00
16	2/20	2/07	1/27	1/18	1/09	12/29	12/16	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	9/13	9/19	9/23	9/27	10/01	10/04	10/08	10/12	10/19
32	10/02	10/09	10/14	10/18	10/22	10/26	10/30	11/04	11/10
28	10/21	10/31	11/06	11/12	11/18	11/23	11/29	12/06	12/15
24	11/10	11/21	11/29	12/06	12/12	12/19	12/27	1/06	0/00
20	11/17	11/29	12/07	12/15	12/23	12/31	1/10	1/29	0/00
16	12/05	12/18	12/28	1/06	1/15	1/26	2/11	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	144	134	128	122	116	111	105	98	89
32	195	184	176	170	163	157	150	143	132
28	270	255	244	234	226	217	207	196	181
24	>365	>365	334	318	307	296	286	275	259
20	>365	>365	>365	349	330	317	305	292	276
16	>365	>365	>365	>365	>365	>365	345	324	303

***** 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	839	718	713	607	466	299	160	145	230	458	704	844	6183
60	684	566	575	457	318	168	69	60	126	311	554	689	4577
57	591	482	482	368	236	107	32	27	80	232	466	596	3699
55	529	426	420	312	187	75	18	15	54	185	409	534	3164
50	381	297	277	181	93	21	2	1	16	91	274	388	2022
32	33	19	10	1	0	0	0	0	0	0	17	41	121

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	217	237	303	384	557	694	890	911	782	567	303	220	6065
55	0	0	0	5	31	79	195	212	147	38	5	0	712
57	0	0	0	2	18	51	147	163	112	24	1	0	518
60	0	0	0	0	8	22	91	103	68	10	0	0	302
65	0	0	0	0	0	3	27	33	22	1	0	0	86
70	0	0	0	0	0	0	5	7	5	0	0	0	17

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	62	79	100	169	315	457	648	663	543	325	104	56	62	141	241	410	725	1182	1830	2493	3036	3361	3465	3521
45	17	30	36	82	183	308	493	508	393	191	41	16	17	47	83	165	348	656	1149	1657	2050	2241	2282	2298
50	0	2	3	34	94	174	339	353	252	94	8	0	0	2	5	39	133	307	646	999	1251	1345	1353	1353
55	0	0	0	5	43	81	193	205	136	36	0	0	0	0	0	5	48	129	322	527	663	699	699	699
60	0	0	0	0	18	33	91	99	64	12	0	0	0	0	0	0	18	51	142	241	305	317	317	317
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	19	28	41	87	165	241	369	383	302	153	29	14	19	47	88	175	340	581	950	1333	1635	1788	1817	1831

(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