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: ENTERPRISE 20 NNE, OR **COOP ID: 352678**

Climate Division: OR 8 **NWS Call Sign:** **Elevation: 3,280 Feet** **Lat: 45˚43N** **Lon: 117˚09W**

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	36.4	16.7	26.6	62	1971	31	33.4	1994	-28	1982	6	13.8	1979	1192	0	.0	.0	1.3	7.5	29.7	3.6
Feb	43.0	20.7	31.9	71	1995	24	38.2	1992	-30	1989	4	20.6	1989	929	0	.0	.0	6.6	2.5	26.7	1.6
Mar	51.0	25.0	38.0	80	1978	29	43.0	1986	-6	1989	4	31.8	1976	837	0	.0	.0	17.3	.1	27.5	.2
Apr	59.4	29.9	44.7	93	1977	24	51.0	1987	11	1982	19	38.3	1975	611	0	.0	.1	24.9	.0	19.6	.0
May	67.3	35.4	51.4	96+	2001	23	56.3	1993	15	1982	5	47.5	1982	423	0	.0	.6	30.2	.0	11.1	.0
Jun	75.5	40.7	58.1	99	1992	24	62.9	1974	23	1984	1	54.6	1991	218	11	.0	2.7	30.0	.0	3.4	.0
Jul	85.1	43.4	64.3	106	1994	22	70.9	1998	27+	1977	5	57.0	1993	101	79	.9	10.2	31.0	.0	1.0	.0
Aug	86.1	42.3	64.2	107	2000	9	68.8	1971	24	1980	29	58.7	1980	99	74	1.1	11.0	31.0	.0	1.4	.0
Sep	77.0	35.3	56.2	105	1998	3	63.2	1998	16+	1999	27	50.9	1971	282	16	.3	3.3	29.8	.0	10.9	.0
Oct	63.8	28.6	46.2	97	1996	9	53.4	1988	2	1971	29	41.4	1984	583	0	.0	.2	28.1	@	22.3	.0
Nov	45.4	24.4	34.9	74	1999	12	42.7	1999	-21	1985	23	24.0	1985	903	0	.0	.0	8.9	1.8	26.1	.5
Dec	36.3	17.2	26.8	61	1993	11	32.5	1973	-33	1990	29	17.7	1985	1186	0	.0	.0	1.4	6.9	29.9	2.7
Ann	60.5	30.0	45.3	107	Aug 2000	9	70.9	Jul 1998	-33	Dec 1990	29	13.8	Jan 1979	7364	180	2.3	28.1	240.5	18.8	209.6	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: 1969-2001

(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	1.70	1.66	.87	2001	12	3.43	1975	.30	1977
Feb	1.47	1.42	1.00	1994	24	3.46	1999	.31	1973
Mar	1.66	1.68	.88	1980	21	2.90	2000	.47	1994
Apr	1.94	2.02	1.27	1991	24	3.77	1978	.14	1977
May	2.25	2.13	1.45	1991	19	4.61	1991	.69	1983
Jun	1.95	1.90	1.55	1989	15	3.77	1980	.54	1978
Jul	1.30	.85	2.00	1998	31	3.79	1997	.08	1973
Aug	1.15	.98	2.40	1984	31	5.78	1989	.00+	1998
Sep	1.13	.95	1.55	1972	12	2.67	1977	.00+	1999
Oct	1.19	1.08	1.45	2000	1	3.43	1975	.00+	1987
Nov	2.16	1.99	1.50	1975	30	4.81	1991	.65	1993
Dec	1.90	1.53	1.35	1998	28	5.49	1996	.15	1989
Ann	19.80	19.12	2.40	Aug 1984	31	5.78	Aug 1989	.00+	Sep 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.3	6.3	.5	.0
Feb	9.2	5.5	.3	@
Mar	10.9	6.1	.2	.0
Apr	10.5	6.5	.7	.1
May	10.8	7.1	1.0	.1
Jun	8.0	5.7	1.0	.1
Jul	5.5	3.3	.6	.1
Aug	4.4	2.9	.6	.1
Sep	4.2	3.3	.6	.1
Oct	6.0	3.9	.6	.1
Nov	11.7	7.3	.6	.1
Dec	9.9	6.3	.7	.1
Ann	101.4	64.2	7.4	.9

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	.48	.64	.89	1.10	1.31	1.52	1.76	2.04	2.41	2.98	3.51
Feb	.40	.54	.75	.93	1.12	1.31	1.52	1.77	2.09	2.61	3.08
Mar	.71	.86	1.07	1.24	1.40	1.57	1.74	1.95	2.21	2.60	2.95
Apr	.55	.73	1.01	1.25	1.49	1.74	2.01	2.34	2.76	3.42	4.03
May	.80	1.01	1.32	1.57	1.82	2.07	2.35	2.67	3.08	3.71	4.29
Jun	.66	.85	1.12	1.35	1.56	1.79	2.03	2.32	2.68	3.25	3.77
Jul	.11	.19	.37	.54	.74	.97	1.24	1.58	2.05	2.83	3.60
Aug	.00	.02	.11	.25	.43	.66	.95	1.34	1.92	2.93	3.98
Sep	.00	.00	.11	.34	.56	.81	1.09	1.44	1.91	2.68	3.47
Oct	.00	.17	.40	.59	.78	.99	1.22	1.49	1.86	2.46	3.04
Nov	.72	.93	1.23	1.48	1.73	1.98	2.25	2.57	2.98	3.62	4.21
Dec	.40	.58	.86	1.11	1.36	1.63	1.94	2.30	2.79	3.56	4.29
Ann	14.66	15.67	16.95	17.92	18.78	19.60	20.45	21.39	22.51	24.14	25.55

\+ 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: 1969-2001
(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	12.4	10.5	5	4
Feb	5.2	3.5	3	1
Mar	2.8	.0	1	#
Apr	.2	.0	#	0
May	#	.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	5.0	2.0	1	#
Dec	7.6	7.0	3	2
Ann	33.2	23.0	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	18.0	1998	11	27.0	1993	22	1993	24	17	1993
Feb	10.0	1999	9	23.0	1985	30	1985	11	21	1985
Mar	8.0	1985	22	17.0	1997	15	1989	2	4	1985
Apr	4.0	1975	3	4.0	1975	4	1975	3	#+	1997
May	#	1986	6	#	1986	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	.0	0	0	.0	0	0	0	0	0	0
Oct	1.0	1971	31	1.0	1971	2	1982	18	#+	1985
Nov	15.0	1975	30	21.0	1975	12+	1996	19	4	1985
Dec	8.0	1996	4	19.0	1971	26	1996	29	20	1996
Ann	18.0	Jan 1998	11	27.0	Jan 1993	30	Feb 1985	11	21	Feb 1985

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	4.1	4.0	1.3	.3	.1
Feb	2.2	2.2	.8	.3	@
Mar	1.0	1.0	.3	.1	.0
Apr	.1	.1	@	.0	.0
May	.0	.0	.0	.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	@	@	.0	.0	.0
Nov	1.6	1.4	.6	.2	@
Dec	3.0	3.0	1.1	.2	.0
Ann	12.0	11.7	4.1	1.1	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	16.5	13.3	10.5	5.8
Feb	8.4	6.2	5.1	1.8
Mar	2.1	1.6	.4	.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	3.0	1.9	1.1	.1
Dec	9.1	5.7	3.1	1.5
Ann	39.2	28.7	20.2	9.2

+ 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	7/31	7/26	7/23	7/20	7/17	7/14	7/11	7/08	7/03
32	7/17	7/11	7/06	7/02	6/29	6/25	6/21	6/17	6/11
28	6/28	6/18	6/11	6/05	5/30	5/24	5/18	5/11	5/01
24	5/31	5/23	5/17	5/12	5/07	5/02	4/27	4/21	4/12
20	5/02	4/25	4/20	4/16	4/12	4/08	4/03	3/29	3/22
16	4/17	4/07	3/31	3/25	3/19	3/14	3/07	2/28	2/18

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	7/31	8/05	8/08	8/11	8/14	8/17	8/20	8/23	8/28
32	8/11	8/16	8/21	8/24	8/28	8/31	9/04	9/08	9/14
28	9/01	9/04	9/07	9/10	9/12	9/14	9/16	9/19	9/23
24	9/11	9/16	9/20	9/23	9/26	9/29	10/02	10/06	10/11
20	9/24	9/30	10/04	10/07	10/11	10/14	10/18	10/22	10/27
16	10/06	10/13	10/18	10/22	10/26	10/30	11/03	11/08	11/15

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	45	39	35	31	28	24	20	16	10
32	83	75	69	64	59	55	50	44	36
28	138	127	118	111	104	97	90	82	70
24	172	162	154	148	142	135	129	121	111
20	210	200	193	187	181	176	170	163	153
16	259	245	236	227	220	212	204	194	181

***** 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	1192	929	837	611	423	218	101	99	282	583	903	1186	7364
60	1037	789	682	461	275	105	35	34	167	429	753	1031	5798
57	944	705	589	375	195	58	15	15	112	339	663	938	4948
55	882	649	527	319	149	35	9	8	82	281	603	876	4420
50	727	511	374	193	64	6	0	1	30	154	459	721	3240
32	246	124	27	4	0	0	0	0	0	1	83	228	713

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	78	120	213	383	600	783	1001	998	724	441	169	64	5574
55	0	0	0	8	36	128	296	293	116	7	0	0	884
57	0	0	0	4	20	91	241	238	86	3	0	0	683
60	0	0	0	0	8	49	168	164	51	1	0	0	441
65	0	0	0	0	0	11	79	74	16	0	0	0	180
70	0	0	0	0	0	1	24	21	4	0	0	0	50

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	13	58	177	363	544	749	743	481	217	31	1	1	14	72	249	612	1156	1905	2648	3129	3346	3377	3378
45	0	0	14	86	222	395	594	588	338	108	8	0	0	0	14	100	322	717	1311	1899	2237	2345	2353	2353
50	0	0	0	30	113	252	439	434	205	40	0	0	0	0	0	30	143	395	834	1268	1473	1513	1513	1513
55	0	0	0	5	49	136	291	283	100	9	0	0	0	0	0	5	54	190	481	764	864	873	873	873
60	0	0	0	0	10	55	153	149	35	1	0	0	0	0	0	0	10	65	218	367	402	403	403	403
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	18	70	163	275	376	504	507	386	223	28	0	0	18	88	251	526	902	1406	1913	2299	2522	2550	2550

(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