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: COQUILLE CITY, OR **COOP ID: 351836**

Climate Division: OR 1 **NWS Call Sign:** **Elevation: 23 Feet** **Lat: 43˚11N** **Lon: 124˚12W**

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	52.8	35.5	44.2	74	1976	31	48.9	1998	12	1980	30	39.4	1974	648	0	.0	.0	24.3	.0	10.7	.0
Feb	55.0	37.4	46.2	85	1992	26	51.1	1991	11	1989	6	39.0	1989	531	0	.0	.0	23.8	.1	6.6	.0
Mar	56.6	38.4	47.5	81	1986	20	51.3	1992	25	1976	3	43.5	1971	528	0	.0	.0	28.6	.0	3.9	.0
Apr	59.2	39.7	49.5	88	1989	10	53.6	1992	29	1977	18	44.2	1975	467	0	.0	.0	29.2	.0	1.4	.0
May	63.4	43.2	53.3	95	1992	4	58.5	1997	31	1985	12	50.5	1977	363	0	.0	@	30.9	.0	.2	.0
Jun	67.1	47.0	57.1	96	1995	29	59.7	1978	34+	1976	3	53.5	1976	238	0	.0	.1	30.0	.0	.0	.0
Jul	70.9	49.9	60.4	98	1978	22	62.5	1998	39+	1985	1	58.4	1999	145	2	.0	.1	31.0	.0	.0	.0
Aug	72.1	50.2	61.2	94	1978	8	63.7	1997	37	1973	18	58.9	1980	122	3	.0	.1	31.0	.0	.0	.0
Sep	71.8	46.8	59.3	101	1990	22	62.8	1997	31	1972	27	57.0	1971	175	3	@	.6	30.0	.0	@	.0
Oct	66.4	42.3	54.4	102	1991	11	58.1	1988	26	1985	9	50.9	1971	330	0	@	.3	30.9	.0	1.0	.0
Nov	56.9	39.1	48.0	79	1987	5	52.4	1995	18	1978	14	42.1	1985	510	0	.0	.0	27.7	.0	5.1	.0
Dec	52.3	35.7	44.0	72	1979	18	48.6	1995	8	1990	22	38.1	1990	652	0	.0	.0	23.6	.2	10.7	.0
Ann	62.0	42.1	52.1	102	Oct 1991	11	63.7	Aug 1997	8	Dec 1990	22	38.1	Dec 1990	4709	8	.0	1.2	341.0	.3	39.6	.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: 1971-2001

(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	8.70	8.91	3.20	1988	10	17.97	2000	.97	1985
Feb	7.29	6.32	2.70	1983	18	13.85	1986	1.26	1988
Mar	6.92	6.85	2.72	1972	2	11.62	1974	2.84	1978
Apr	4.47	4.09	2.11	1984	8	9.85	1993	1.22	1977
May	2.94	3.05	1.77	1998	21	7.21	1998	.08	1992
Jun	1.38	1.24	1.73	1985	6	3.54	1985	.17	1976
Jul	.41	.30	1.09	1983	1	2.46	1983	.00+	1977
Aug	.69	.30	2.00	1977	24	3.04	1983	.00+	1998
Sep	1.49	.91	1.87	1981	27	4.92	1986	.00+	1993
Oct	3.50	2.97	2.25	1989	24	7.99	1990	.14	1987
Nov	8.87	7.59	5.19	1996	19	22.63	1973	1.87	1976
Dec	8.93	9.31	4.41	1981	6	18.51	1981	1.53	1976
Ann	55.59	52.76	5.19	Nov 1996	19	22.63	Nov 1973	.00+	Aug 1998

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	18.7	13.9	6.3	2.1
Feb	17.5	12.9	5.9	1.6
Mar	19.0	13.6	5.1	1.1
Apr	16.6	10.9	2.7	.5
May	12.3	7.2	1.8	.4
Jun	7.7	4.1	.5	.1
Jul	3.4	1.1	.1	.1
Aug	4.4	1.8	.3	.1
Sep	6.2	3.2	1.2	.2
Oct	10.8	7.4	2.3	.7
Nov	19.6	14.9	6.4	2.6
Dec	18.4	14.6	6.7	2.2
Ann	154.6	105.6	39.3	11.7

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	2.29	3.11	4.37	5.48	6.57	7.72	9.00	10.51	12.48	15.58	18.48
Feb	2.54	3.23	4.23	5.07	5.88	6.71	7.61	8.67	10.01	12.10	14.01
Mar	2.96	3.58	4.46	5.18	5.85	6.53	7.26	8.10	9.16	10.78	12.24
Apr	1.44	1.87	2.49	3.03	3.54	4.07	4.66	5.34	6.22	7.59	8.85
May	.45	.70	1.13	1.53	1.95	2.41	2.94	3.59	4.46	5.86	7.22
Jun	.20	.31	.51	.70	.90	1.12	1.38	1.69	2.10	2.79	3.45
Jul	.00	.00	.04	.10	.17	.25	.36	.49	.68	1.01	1.35
Aug	.00	.00	.02	.10	.22	.36	.56	.81	1.18	1.84	2.51
Sep	.00	.00	.17	.39	.64	.94	1.31	1.80	2.48	3.67	4.86
Oct	.50	.79	1.29	1.78	2.28	2.84	3.49	4.28	5.34	7.08	8.76
Nov	2.52	3.37	4.64	5.74	6.82	7.95	9.19	10.66	12.57	15.56	18.34
Dec	2.37	3.21	4.51	5.64	6.76	7.93	9.23	10.77	12.78	15.94	18.90
Ann	35.84	39.52	44.31	48.00	51.31	54.55	57.91	61.66	66.25	72.97	78.85

\+ 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: 1971-2001
(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	.3	.0	#	0	2.5	1972	27	4.8	1972	2	1972	27	#+	1975	.2	.2	.0	.0	.0	.1	.0	.0	.0
Feb	#	.0	#	0	#	1975	21	#+	1975	8	1989	3	1	1989	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	#	0	.1	1973	19	.1	1973	#+	1980	15	#+	1980	@	.0	.0	.0	.0	.0	.0	.0	.0
Apr	#	.0	#	0	#	1975	4	#+	1975	#	1975	4	#	1975	.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	.1	.0	#	0	1.3	1971	8	1.3	1971	1	1971	8	#	1971	.1	@	.0	.0	.0	@	.0	.0	.0
Dec	.1	.0	#	0	1.8	1990	19	1.9	1990	2	1990	20	#+	1998	.1	@	.0	.0	.0	.2	.0	.0	.0
Ann	.5	.0	N/A	N/A	2.5	Jan 1972	27	4.8	Jan 1972	8	Feb 1989	3	1	Feb 1989	.4	.2	.0	.0	.0	.3	.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	6/09	6/01	5/26	5/21	5/16	5/11	5/06	4/30	4/22
32	5/04	4/24	4/17	4/11	4/05	3/30	3/24	3/17	3/07
28	3/05	2/20	2/11	2/03	1/27	1/20	1/12	1/03	12/21
24	2/12	1/31	1/22	1/14	1/06	12/28	12/17	11/27	0/00
20	1/15	12/29	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	1/10	12/15	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	9/18	9/26	10/01	10/06	10/10	10/14	10/19	10/24	11/01
32	10/09	10/19	10/26	11/01	11/06	11/12	11/18	11/25	12/04
28	11/02	11/12	11/19	11/26	12/02	12/07	12/14	12/21	12/31
24	11/17	12/02	12/12	12/22	1/01	1/11	1/26	0/00	0/00
20	12/17	1/08	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	12/31	1/27	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	181	169	161	153	147	140	133	124	112
32	255	241	231	222	214	206	197	187	173
28	361	341	328	317	308	298	287	275	259
24	>365	>365	>365	>365	>365	341	325	312	296
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
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)

Base — Heating Degree Days (1)

Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	648	531	528	467	363	238	145	122	175	330	510	652	4709
60	493	386	389	317	213	101	33	21	60	179	362	497	3051
57	400	306	301	232	132	45	6	3	20	101	279	404	2229
55	341	254	244	178	90	21	1	0	8	62	226	344	1769
50	201	140	125	75	22	1	0	0	0	12	119	204	899
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	375	398	479	523	660	752	881	904	818	693	480	371	7334
55	3	8	10	11	37	83	169	191	136	42	16	2	708
57	0	4	5	5	18	47	112	132	89	19	9	0	440
60	0	0	0	0	5	13	46	57	38	4	2	0	165
65	0	0	0	0	0	0	2	3	3	0	0	0	8
70	0	0	0	0	0	0	0	0	0	0	0	0	0

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	176	220	262	310	437	539	658	684	607	471	271	177	176	396	658	968	1405	1944	2602	3286	3893	4364	4635	4812
45	73	103	131	167	282	389	503	529	457	319	141	70	73	176	307	474	756	1145	1648	2177	2634	2953	3094	3164
50	16	32	40	60	140	239	348	374	308	174	52	19	16	48	88	148	288	527	875	1249	1557	1731	1783	1802
55	0	1	1	14	49	102	193	219	162	64	10	0	0	1	2	16	65	167	360	579	741	805	815	815
60	0	0	0	0	8	26	61	77	48	15	0	0	0	0	0	0	8	34	95	172	220	235	235	235
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	85	107	131	164	229	288	378	396	358	280	135	78	85	192	323	487	716	1004	1382	1778	2136	2416	2551	2629

(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

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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