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: CAVE JUNCTION 1 WNW, OR **COOP ID: 351448**

Climate Division: OR 3 **NWS Call Sign:** **Elevation: 1,280 Feet** **Lat: 42˚11N** **Lon: 123˚41W**

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	46.5	32.0	39.3	66	1981	21	44.1	1995	11+	1974	7	35.5	1982	798	0	.0	.0	12.4	@	16.2	.0
Feb	52.3	33.6	43.0	76	1992	25	48.7	1995	4	1989	7	37.0	1989	618	0	.0	.0	18.9	.2	12.5	.0
Mar	58.0	34.8	46.4	82	1994	27	51.0	1992	20	1987	28	42.3	1971	577	0	.0	.0	26.3	.0	11.8	.0
Apr	65.3	36.5	50.9	90+	1987	27	56.1	1990	21	1963	16	45.1	1975	424	0	.0	.1	28.8	.0	7.6	.0
May	74.2	41.1	57.7	99	2001	31	64.6	1992	28+	1999	9	52.6	1977	240	12	.0	1.8	30.8	.0	2.0	.0
Jun	83.1	46.5	64.8	109	1992	22	70.0	1977	28	1966	1	60.7	1980	78	72	.4	6.0	30.0	.0	.2	.0
Jul	91.9	50.6	71.3	108+	1994	20	75.2	1972	36+	1976	1	67.0	1983	15	208	3.3	16.0	31.0	.0	.0	.0
Aug	91.7	49.3	70.5	109	1998	4	74.4	1986	34	1969	25	67.7	1976	9	179	3.4	15.7	31.0	.0	.0	.0
Sep	84.9	44.4	64.7	110	1998	1	69.4	1991	25	1970	14	60.1	1986	86	75	1.0	8.5	30.0	.0	.4	.0
Oct	71.5	38.6	55.1	100	2001	1	59.6	1988	19	1971	28	51.3	1984	311	4	.0	1.1	30.8	.0	5.0	.0
Nov	53.6	36.0	44.8	78	1991	6	50.9	1995	11	1978	14	38.8	1985	606	0	.0	.0	20.8	@	7.9	.0
Dec	45.7	32.3	39.0	69+	1979	17	45.3	1995	-6	1972	10	33.0	1990	807	0	.0	.0	10.1	.4	15.6	.1
Ann	68.2	39.6	54.0	110	Sep 1998	1	75.2	Jul 1972	-6	Dec 1972	10	33.0	Dec 1990	4569	550	8.1	49.2	300.9	.6	79.2	.1

\+ 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: 1962-2001

(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	10.81	12.00	4.94	1980	12	25.39	1995	.53	1985
Feb	9.75	8.30	3.46	1998	21	22.57	1986	.13	1988
Mar	8.15	7.36	3.45	1975	18	19.40	1995	1.68	1988
Apr	4.10	3.84	2.25	1982	13	13.10	1982	.27	1973
May	2.27	1.82	3.63	1990	31	9.15	1990	.00	1982
Jun	.74	.59	1.07	1971	25	2.35	1988	.00	1999
Jul	.28	.17	.97	1983	1	1.40	1983	.00+	1998
Aug	.55	.15	1.70	1983	30	3.23	1983	.00+	1998
Sep	1.32	.58	3.50	1977	28	6.47	1977	.00+	1999
Oct	3.66	3.20	4.01	1962	9	10.50	1979	.00	1978
Nov	10.04	7.54	6.15	1996	18	30.13	1973	1.87	1976
Dec	10.98	8.39	8.12	1964	22	35.29	1996	1.16	1976
Ann	62.65	59.68	8.12	Dec 1964	22	35.29	Dec 1996	.00+	Sep 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	14.6	11.9	7.1	3.8
Feb	14.4	11.8	6.8	3.7
Mar	15.6	11.7	5.4	2.7
Apr	10.9	7.9	3.0	1.0
May	7.4	4.6	1.3	.6
Jun	3.6	2.2	.3	@
Jul	1.5	.9	.1	@
Aug	2.3	1.3	.3	.1
Sep	3.8	2.6	1.0	.3
Oct	7.4	5.4	2.7	1.3
Nov	15.2	11.8	6.4	3.5
Dec	14.9	12.0	6.9	3.9
Ann	111.6	84.1	41.3	20.9

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	2.15	3.13	4.72	6.18	7.65	9.22	11.01	13.16	16.00	20.56	24.89
Feb	1.55	2.38	3.80	5.14	6.53	8.04	9.78	11.90	14.74	19.34	23.76
Mar	1.90	2.66	3.85	4.92	5.98	7.11	8.37	9.88	11.86	15.00	17.96
Apr	.52	.85	1.43	2.00	2.61	3.28	4.05	5.01	6.31	8.44	10.50
May	.11	.32	.66	.99	1.35	1.75	2.22	2.80	3.59	4.90	6.18
Jun	.01	.05	.14	.24	.36	.50	.67	.89	1.20	1.74	2.27
Jul	.00	.00	.00	.00	.06	.14	.23	.35	.51	.79	1.06
Aug	.00	.00	.00	.00	.00	.12	.31	.57	.97	1.69	2.42
Sep	.00	.00	.01	.13	.32	.58	.95	1.46	2.24	3.65	5.13
Oct	.12	.40	.91	1.43	2.02	2.68	3.48	4.48	5.86	8.19	10.48
Nov	1.51	2.35	3.81	5.19	6.64	8.22	10.04	12.27	15.25	20.12	24.79
Dec	1.46	2.34	3.91	5.44	7.04	8.82	10.88	13.41	16.84	22.44	27.86
Ann	34.67	39.58	46.13	51.30	56.01	60.68	65.59	71.13	78.00	88.23	97.30

+ 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: 1962-2001
(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	3.4	.0	1	0	14.5	1972	26	24.5	1972	18	1971	13	9	1993	1.1	1.0	.3	.1	.1	1.5	1.1	1.0	.6
Feb	3.0	.0	#	0	12.0	1993	20	17.0+	1989	13	1989	3	2	1993	1.3	1.1	.6	.3	@	1.3	1.0	.7	.2
Mar	2.3	.3	#	0	6.5	1985	27	12.0	1995	10	1995	23	1	1995	1.0	.7	.3	.1	.0	.5	.2	.1	@
Apr	.3	.0	#	0	6.0	1982	6	6.0	1982	4	1982	6	#+	2000	.3	.3	.1	.1	.0	@	@	.0	.0
May	#	.0	0	0	#	1986	6	#	1986	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	#	0	.0	0	0	.0	0	#	1998	7	#	1998	.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	#	1971	27	#	1971	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.8	.0	#	0	14.0	1977	21	14.0	1977	9	1977	21	#+	1994	.2	.2	.1	@	@	.1	@	@	.0
Dec	2.9	.5	#	0	8.0	1987	15	24.8	1992	18	1992	30	2	1992	1.2	.8	.4	.2	.0	1.4	.9	.6	.1
Ann	12.7	.8	N/A	N/A	14.5	Jan 1972	26	24.8	Dec 1992	18+	Dec 1992	30	9	Jan 1993	5.1	4.1	1.8	.8	.1	4.8	3.2	2.4	.9

+ 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	6/20	6/13	6/09	6/05	6/02	5/29	5/25	5/21	5/14
32	5/27	5/20	5/15	5/10	5/06	5/02	4/28	4/23	4/16
28	5/01	4/23	4/17	4/13	4/08	4/04	3/30	3/24	3/16
24	3/19	3/04	2/22	2/12	2/03	1/25	1/15	1/01	12/08
20	2/19	2/04	1/24	1/13	1/02	12/19	0/00	0/00	0/00
16	2/01	1/18	1/05	12/20	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	9/01	9/08	9/13	9/18	9/22	9/26	9/30	10/06	10/13
32	9/23	9/30	10/05	10/09	10/12	10/16	10/20	10/25	11/01
28	10/09	10/21	10/30	11/06	11/12	11/19	11/26	12/05	12/16
24	11/10	11/22	11/30	12/08	12/15	12/23	1/01	1/13	0/00
20	11/18	12/06	12/19	1/01	1/16	2/06	0/00	0/00	0/00
16	12/12	12/30	1/15	2/09	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	140	130	123	117	111	106	100	93	83
32	187	177	170	164	158	153	147	140	130
28	256	243	233	225	218	210	202	192	179
24	>365	>365	344	323	309	297	285	272	254
20	>365	>365	>365	>365	>365	>365	345	322	300
16	>365	>365	>365	>365	>365	>365	>365	>365	356

***** 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	798	618	577	424	240	78	15	9	86	311	606	807	4569
60	643	478	422	283	123	22	2	0	29	176	456	652	3286
57	550	394	334	205	73	8	0	0	11	111	368	559	2613
55	488	340	277	161	48	3	0	0	6	76	312	497	2208
50	336	212	154	76	12	0	0	0	0	23	185	347	1345
32	12	3	0	0	0	0	0	0	0	0	3	17	35

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	237	309	446	567	795	984	1217	1193	979	715	388	234	8064
55	0	2	11	37	129	297	504	480	295	79	6	0	1840
57	0	0	6	22	93	242	442	418	240	51	2	0	1516
60	0	0	1	9	50	166	351	326	168	24	0	0	1095
65	0	0	0	0	12	72	208	179	75	4	0	0	550
70	0	0	0	0	1	20	99	68	22	0	0	0	210

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	77	139	223	329	528	713	931	912	720	464	173	76	77	216	439	768	1296	2009	2940	3852	4572	5036	5209	5285
45	23	53	100	191	374	563	776	757	570	313	71	31	23	76	176	367	741	1304	2080	2837	3407	3720	3791	3822
50	1	8	31	89	237	414	621	602	420	173	17	2	1	9	40	129	366	780	1401	2003	2423	2596	2613	2615
55	0	0	0	32	119	273	466	447	274	72	2	0	0	0	0	32	151	424	890	1337	1611	1683	1685	1685
60	0	0	0	2	46	146	314	295	148	21	0	0	0	0	0	2	48	194	508	803	951	972	972	972
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	29	74	143	229	353	453	569	554	467	317	79	28	29	103	246	475	828	1281	1850	2404	2871	3188	3267	3295

(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