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: GOVERNMENT CAMP, OR **COOP ID: 353402**

Climate Division: OR 4 **NWS Call Sign:** **Elevation: 3,980 Feet** **Lat: 45˚18N** **Lon: 121˚44W**

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	35.5	24.2	29.9	65	1968	24	36.0	1994	-8	1963	12	19.8	1979	1091	0	.0	.0	1.5	10.6	27.2	.6
Feb	38.0	25.4	31.7	69	1962	1	39.7	1991	-13+	1989	4	22.4	1989	939	0	.0	.0	3.0	7.0	24.5	.3
Mar	41.0	27.6	34.3	70	1966	30	42.0	1992	1	1971	1	28.5	1971	937	0	.0	.0	5.1	4.8	24.6	.0
Apr	45.4	30.4	37.9	80+	1987	29	43.7	1987	12	1968	13	32.1	1975	814	0	.0	.0	9.6	1.7	20.4	.0
May	52.3	35.2	43.8	93	1986	31	51.6	1992	18	1954	1	38.4	1977	659	0	.0	@	16.9	.2	12.1	.0
Jun	59.3	40.7	50.0	92	1961	17	55.5	1992	23	1963	3	45.2	1991	451	1	.0	@	23.0	.0	1.7	.0
Jul	67.5	46.3	56.9	99	1956	20	62.7	1985	29	1962	2	49.2	1993	269	18	.0	.2	29.3	.0	.1	.0
Aug	68.4	46.8	57.6	105	1977	18	62.5	1986	32+	1980	29	52.2	1975	245	15	@	.5	30.3	.0	@	.0
Sep	62.7	42.6	52.7	94	1988	4	57.7	1994	23	1972	27	46.6	1985	382	12	.0	.1	25.6	.0	1.6	.0
Oct	53.3	36.2	44.8	83+	1991	12	53.9	1988	10+	1971	29	39.9	1984	629	0	.0	.0	18.4	.3	9.0	.0
Nov	40.0	29.1	34.6	70	1981	3	40.1	1976	-4	1955	15	24.7	1985	913	0	.0	.0	3.9	4.9	21.5	.1
Dec	35.7	24.8	30.3	73	1963	14	36.4	1980	-14	1964	17	22.6	1990	1078	0	.0	.0	1.5	9.8	27.1	.7
Ann	49.9	34.1	42.0	105	Aug 1977	18	62.7	Jul 1985	-14	Dec 1964	17	19.8	Jan 1979	8407	46	@	.8	168.1	39.3	169.8	1.7

\+ 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: 1951-2001

(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	12.86	12.68	4.30	1972	21	24.10	1975	.56	1985
Feb	10.23	10.53	5.00	1996	7	17.68	1996	1.90	1993
Mar	8.50	7.63	3.00	1955	1	14.87	1977	2.60	1978
Apr	7.54	7.98	3.15	1990	28	12.72	1979	3.90	1983
May	5.20	4.88	2.37	1998	30	9.30	1998	1.73	1992
Jun	3.80	3.61	2.33	1981	8	9.09	1981	.99	1986
Jul	1.36	.98	1.72	1966	3	4.18	1983	.00	1984
Aug	1.61	1.48	2.00	1956	26	4.76	1976	.01	1988
Sep	3.60	3.72	3.24	1961	1	8.08	1986	.04	1993
Oct	6.51	5.84	4.81	1994	27	14.38	1997	.10	1987
Nov	13.13	13.77	5.69	1994	1	26.51	1995	3.13	1976
Dec	14.38	13.53	4.85	1998	28	32.54	1996	4.30	1976
Ann	88.72	90.61	5.69	Nov 1994	1	32.54	Dec 1996	.00	Jul 1984

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	19.8	16.5	9.2	4.7
Feb	18.3	15.2	7.3	3.3
Mar	20.1	16.3	6.8	1.8
Apr	18.9	14.2	5.6	1.6
May	15.7	12.1	3.8	.6
Jun	11.2	8.1	2.5	.6
Jul	6.1	3.6	.8	.1
Aug	5.7	3.6	1.0	.4
Sep	8.6	6.2	2.8	1.0
Oct	12.7	10.4	4.9	1.8
Nov	20.5	17.0	10.3	4.1
Dec	20.2	17.0	9.9	5.4
Ann	177.8	140.2	64.9	25.4

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	3.06	4.27	6.15	7.82	9.49	11.25	13.23	15.58	18.66	23.54	28.14
Feb	3.89	4.85	6.21	7.34	8.42	9.52	10.71	12.08	13.84	16.53	19.00
Mar	3.49	4.27	5.36	6.27	7.11	7.98	8.90	9.97	11.33	13.39	15.27
Apr	3.74	4.38	5.25	5.95	6.59	7.23	7.91	8.68	9.65	11.11	12.41
May	2.34	2.80	3.44	3.96	4.45	4.93	5.46	6.06	6.81	7.96	8.99
Jun	1.11	1.47	2.02	2.49	2.94	3.42	3.95	4.57	5.37	6.63	7.80
Jul	.09	.23	.45	.65	.86	1.09	1.36	1.68	2.12	2.84	3.53
Aug	.07	.15	.33	.55	.79	1.09	1.45	1.92	2.59	3.74	4.90
Sep	.18	.37	.79	1.27	1.83	2.49	3.29	4.33	5.80	8.32	10.83
Oct	.82	1.33	2.26	3.16	4.12	5.19	6.43	7.95	10.02	13.42	16.72
Nov	4.55	5.79	7.60	9.12	10.58	12.08	13.71	15.62	18.06	21.84	25.31
Dec	4.59	5.96	7.97	9.70	11.36	13.08	14.97	17.19	20.04	24.48	28.58
Ann	60.54	65.90	72.83	78.12	82.84	87.42	92.17	97.44	103.85	113.19	121.30

\+ 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: 1951-2001
(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	52.7	51.0	38	36	35.0	1980	9	110.0	1982	118	1972	14	91	1972	11.1	11.0	6.4	4.3	1.8	28.0	27.8	27.2	24.0
Feb	40.6	32.0	42	34	25.0	1994	24	112.0	1990	139	1985	11	104	1985	9.6	9.6	5.7	3.4	1.1	24.3	24.0	23.3	21.9
Mar	37.9	32.0	37	30	18.0	1974	6	109.0	1977	150	1974	6	120	1974	9.7	9.6	5.1	2.9	.6	26.0	24.1	23.0	21.4
Apr	26.0	22.0	23	13	17.0	1981	12	55.0	1972	118	1974	3	96	1974	6.7	6.7	3.7	1.8	.5	18.3	17.0	15.5	12.8
May	7.9	6.0	4	#	13.0	2000	11	32.0	1974	72	1974	2	45	1974	2.9	2.9	1.1	.3	@	5.9	4.1	3.3	2.5
Jun	.5	.0	#	0	6.0	1995	5	11.0	1995	6	1995	5	1	1995	.3	.3	.1	.1	.0	.3	.1	.1	.0
Jul	#	.0	#	0	#	1981	7	#	1981	#	1981	7	#	1981	.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	.3	.0	#	0	3.0	1984	23	4.0	1972	4	1972	24	#+	1988	.1	.1	@	.0	.0	.2	.1	.0	.0
Oct	5.2	2.0	1	#	10.0	1971	27	25.0	1991	36	1984	31	6	1984	1.8	1.8	.8	.2	.1	2.5	1.6	1.0	.5
Nov	35.0	28.0	9	5	20.0	1996	19	125.0	1973	70	1973	26	38	1994	8.2	8.0	5.0	3.1	.8	14.5	12.6	11.2	7.6
Dec	47.7	47.0	24	15	20.0	1971	10	122.0	1971	114	1984	31	71	1984	10.9	10.8	6.5	3.8	.9	27.8	26.5	24.9	19.3
Ann	253.8	220.0	N/A	N/A	35.0	Jan 1980	9	125.0	Nov 1973	150	Mar 1974	6	120	Mar 1974	61.3	60.8	34.4	19.9	5.8	147.8	137.9	129.5	110.0

+ 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	7/20	7/14	7/09	7/05	7/01	6/27	6/23	6/18	6/11
32	6/27	6/20	6/16	6/12	6/09	6/05	6/01	5/28	5/22
28	5/26	5/20	5/15	5/12	5/08	5/05	5/01	4/27	4/20
24	5/09	5/02	4/26	4/22	4/17	4/13	4/09	4/03	3/27
20	4/26	4/13	4/04	3/27	3/20	3/13	3/05	2/24	2/11
16	4/01	3/18	3/08	2/27	2/18	2/10	2/01	1/21	1/03

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	8/14	8/21	8/25	8/29	9/02	9/06	9/10	9/14	9/21
32	9/06	9/12	9/17	9/21	9/24	9/27	10/01	10/06	10/12
28	9/30	10/06	10/10	10/14	10/18	10/21	10/25	10/30	11/05
24	10/19	10/27	11/02	11/07	11/12	11/17	11/22	11/28	12/06
20	11/03	11/12	11/18	11/24	11/29	12/04	12/09	12/16	12/24
16	11/04	11/15	11/23	12/01	12/07	12/14	12/21	12/30	1/13

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	91	81	74	68	63	57	51	44	34
32	131	123	117	112	107	102	97	90	82
28	190	180	173	167	162	156	151	144	134
24	239	228	221	214	208	201	195	187	176
20	299	283	272	262	253	244	234	223	208
16	>365	326	310	299	289	280	270	258	243

***** 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	1091	939	937	814	659	451	269	245	382	629	913	1078	8407
60	936	792	798	664	504	308	154	131	254	478	763	923	6705
57	843	708	705	574	415	230	103	82	191	391	673	830	5745
55	781	652	643	514	357	184	74	54	155	336	613	768	5131
50	626	512	488	367	224	92	25	15	81	213	465	613	3721
32	154	106	70	26	7	0	0	0	0	8	76	145	592

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	87	98	140	202	371	541	772	793	619	402	153	90	4268
55	0	0	0	0	8	34	132	134	84	17	0	0	409
57	0	0	0	0	4	21	100	100	60	10	0	0	295
60	0	0	0	0	0	9	58	56	34	4	0	0	161
65	0	0	0	0	0	1	18	15	12	0	0	0	46
70	0	0	0	0	0	0	4	1	1	0	0	0	6

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	2	14	32	72	177	315	537	557	397	200	31	5	2	16	48	120	297	612	1149	1706	2103	2303	2334	2339
45	0	0	1	33	97	194	383	404	261	108	8	0	0	0	1	34	131	325	708	1112	1373	1481	1489	1489
50	0	0	0	5	44	105	247	262	157	52	0	0	0	0	0	5	49	154	401	663	820	872	872	872
55	0	0	0	0	15	46	139	147	82	15	0	0	0	0	0	0	15	61	200	347	429	444	444	444
60	0	0	0	0	3	15	67	69	35	4	0	0	0	0	0	0	3	18	85	154	189	193	193	193
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	5	15	43	100	167	298	312	213	105	11	0	0	5	20	63	163	330	628	940	1153	1258	1269	1269

(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