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: GOLD BEACH RANGER STN, OR **COOP ID: 353356**

Climate Division: OR 1 **NWS Call Sign:** **Elevation: 50 Feet** **Lat: 42˚24N** **Lon: 124˚25W**

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	55.4	40.9	48.2	73+	1991	17	52.2	1995	12	1962	21	45.0	1972	523	0	.0	.0	27.6	.0	2.7	.0
Feb	56.0	41.4	48.7	77	1991	25	53.2	1992	21	1989	5	43.2	1989	457	0	.0	.0	25.9	.1	1.9	.0
Mar	56.6	41.6	49.1	79+	1969	26	52.8	1978	28+	1974	8	45.7	1977	479	0	.0	.0	29.1	.0	1.3	.0
Apr	58.6	43.1	50.9	90	1951	10	54.8	1992	28	1975	16	46.7	1975	425	0	.0	.0	29.4	.0	.4	.0
May	61.9	46.0	54.0	86	2001	21	57.8	1997	31	1988	30	51.4	1977	343	0	.0	.0	31.0	.0	@	.0
Jun	65.1	49.3	57.2	89	1966	15	59.7	2000	35+	1971	14	53.9	1971	234	0	.0	.0	30.0	.0	.0	.0
Jul	68.0	51.4	59.7	83	1980	27	62.3	1997	37	1960	8	57.3	1999	166	2	.0	.0	31.0	.0	.0	.0
Aug	68.6	52.1	60.4	88	1993	1	62.1	1997	36	1951	30	58.0	1973	145	5	.0	.0	31.0	.0	.0	.0
Sep	68.3	50.8	59.6	102	1973	10	63.4	1979	40+	1971	30	56.5	1986	169	4	.0	.0	30.0	.0	.0	.0
Oct	64.6	47.3	56.0	91	1972	7	58.8	1978	31	1971	28	53.4	1984	280	0	.0	@	30.9	.0	.1	.0
Nov	57.6	43.4	50.5	76+	1986	1	53.8	1976	25	1955	15	45.2	1994	436	0	.0	.0	29.0	.0	.8	.0
Dec	54.8	40.7	47.8	72	1980	15	51.8	1995	16	1990	21	41.6	1990	534	0	.0	.0	27.3	@	2.0	.0
Ann	61.3	45.7	53.5	102	Sep 1973	10	63.4	Sep 1979	12	Jan 1962	21	41.6	Dec 1990	4191	11	.0	@	352.2	.1	9.2	.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: 1948-2001

(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	11.74	11.87	6.46	1953	17	21.38	1995	1.01	1985
Feb	11.03	9.61	4.50	1986	22	23.68	1986	.92	1988
Mar	10.67	11.24	6.00	1972	2	19.22	1983	4.53	1978
Apr	6.52	6.04	3.81	1992	9	15.48	1993	1.28	1973
May	3.85	3.76	4.59	1963	6	9.13	1993	.05	1992
Jun	1.86	1.26	3.31	1985	6	6.68	1985	.14	1991
Jul	.45	.24	2.00	1983	1	2.90	1983	.00+	1994
Aug	1.10	.33	3.38	1983	30	5.69	1983	.00+	1994
Sep	2.18	.82	3.26	1978	9	8.74	1977	.00+	1999
Oct	5.04	3.83	4.97	1950	29	12.07	1981	.07	1978
Nov	11.82	10.11	6.56	1953	22	34.48	1973	3.29	1989
Dec	13.28	14.50	7.94	1987	3	27.46	1981	2.21	1976
Ann	79.54	78.31	7.94	Dec 1987	3	34.48	Nov 1973	.00+	Sep 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	15.1	12.2	6.7	3.6
Feb	14.4	11.5	6.2	3.5
Mar	16.3	12.9	6.2	3.2
Apr	12.0	8.7	3.8	1.6
May	8.4	5.8	2.6	1.1
Jun	5.0	3.2	.9	.4
Jul	2.0	.9	.2	.1
Aug	3.1	1.7	.6	.2
Sep	4.7	2.5	1.1	.6
Oct	8.3	5.7	2.8	1.6
Nov	15.7	11.7	6.7	3.6
Dec	15.0	11.8	7.1	4.0
Ann	120.0	88.6	44.9	23.5

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	3.53	4.65	6.32	7.76	9.15	10.60	12.20	14.08	16.51	20.31	23.83
Feb	2.69	3.73	5.34	6.77	8.19	9.69	11.36	13.35	15.96	20.10	23.97
Mar	4.59	5.55	6.90	8.00	9.03	10.07	11.18	12.47	14.09	16.56	18.79
Apr	1.55	2.16	3.11	3.96	4.81	5.70	6.70	7.90	9.46	11.94	14.27
May	.46	.76	1.30	1.83	2.40	3.04	3.78	4.70	5.95	8.01	10.01
Jun	.23	.37	.64	.89	1.17	1.47	1.83	2.27	2.86	3.84	4.79
Jul	.00	.00	.02	.06	.13	.23	.35	.52	.77	1.22	1.69
Aug	.00	.00	.00	.05	.18	.38	.69	1.14	1.85	3.17	4.58
Sep	.00	.01	.11	.31	.60	1.01	1.58	2.39	3.62	5.90	8.30
Oct	.43	.78	1.45	2.15	2.91	3.79	4.83	6.13	7.93	10.94	13.90
Nov	3.33	4.45	6.15	7.63	9.07	10.58	12.25	14.23	16.79	20.80	24.55
Dec	3.41	4.66	6.59	8.29	9.97	11.74	13.71	16.05	19.10	23.91	28.42
Ann	51.00	56.31	63.22	68.55	73.34	78.01	82.88	88.31	94.96	104.70	113.23

\+ 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: 1948-2001
(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	#	.0	0	0	#	1979	27	#+	1979	4	1972	28	1	1972	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	#	0	.0	0	0	.0	0	#	1972	3	#	1972	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.5	1971	2	.5	1971	0	0	0	0	0	@	.0	.0	.0	.0	.0	.0	.0	.0
Apr	#	.0	0	0	#	1975	4	#	1975	0	0	0	0	0	.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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.1	.0	0	0	2.5	1972	7	2.5	1972	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Ann	.1	.0	N/A	N/A	2.5	Dec 1972	7	2.5	Dec 1972	4	Jan 1972	28	1	Jan 1972	@	@	.0	.0	.0	.0	.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	5/20	5/07	4/28	4/20	4/12	4/05	3/27	3/18	3/05
32	4/21	4/01	3/17	3/04	2/20	2/07	1/24	1/03	0/00
28	2/27	2/07	1/21	1/03	12/04	0/00	0/00	0/00	0/00
24	1/14	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	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	10/27	11/04	11/10	11/15	11/20	11/25	11/30	12/06	12/15
32	11/09	11/22	12/01	12/10	12/18	12/26	1/05	1/21	0/00
28	12/15	12/31	1/13	1/28	2/21	0/00	0/00	0/00	0/00
24	1/13	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	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	267	251	240	230	221	212	203	192	176
32	>365	>365	348	315	297	282	268	252	231
28	>365	>365	>365	>365	>365	>365	>365	>365	315
24	>365	>365	>365	>365	>365	>365	>365	>365	>365
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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	523	457	479	425	343	234	166	145	169	280	436	534	4191
60	368	317	337	275	192	96	46	29	58	134	287	379	2518
57	277	237	249	190	112	40	11	4	19	66	203	290	1698
55	220	185	192	138	72	17	3	0	8	35	152	233	1255
50	98	84	82	45	12	0	0	0	0	3	59	113	496
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	500	468	531	565	680	756	858	879	826	743	554	489	7849
55	6	9	10	13	39	83	148	166	143	65	16	9	707
57	2	4	4	5	18	46	94	108	95	34	7	4	421
60	0	0	0	0	4	12	36	40	43	9	0	0	144
65	0	0	0	0	0	0	2	5	4	0	0	0	11
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	258	257	288	330	433	522	620	637	585	495	319	250	258	515	803	1133	1566	2088	2708	3345	3930	4425	4744	4994
45	118	127	140	182	278	372	465	482	435	340	174	115	118	245	385	567	845	1217	1682	2164	2599	2939	3113	3228
50	34	36	40	61	129	223	310	327	285	191	64	31	34	70	110	171	300	523	833	1160	1445	1636	1700	1731
55	2	3	1	6	34	82	157	172	144	70	11	0	2	5	6	12	46	128	285	457	601	671	682	682
60	0	0	0	0	0	10	34	38	39	13	0	0	0	0	0	0	0	10	44	82	121	134	134	134
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	94	94	110	138	196	251	317	334	305	243	125	88	94	188	298	436	632	883	1200	1534	1839	2082	2207	2295

(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