

Climatology of the United States

No. 20

1971-2000

Station: GRIZZLY, OR

COOP ID: 353542

Climate Division: OR 7

NWS Call Sign:

Elevation: 3,635 Feet Lat: 44° 31N

Lon: 120° 56W

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	40.3	22.5	31.4	66	1992	31	38.2	1994	-28+	1957	26	18.4	1979	1041	0	.0	.0	5.2	5.7	26.2	1.5
Feb	44.7	24.8	34.8	74	1995	22	41.7	1995	-18+	1989	5	23.3	1989	847	0	.0	.0	8.1	2.6	23.9	.8
Mar	50.8	26.8	38.8	78	1966	29	43.5	1986	0	1964	13	34.6	1975	813	0	.0	.0	16.0	.2	25.3	.0
Apr	57.8	28.7	43.3	84	1977	23	48.6	1987	9+	1999	1	38.4	1975	652	0	.0	.0	22.6	.1	21.0	.0
May	65.6	33.4	49.5	96	1986	31	56.8	1992	8	1964	25	43.7	1985	483	2	.0	.2	28.9	.0	14.0	.0
Jun	73.9	38.2	56.1	98+	1992	23	62.7	1974	19	1976	2	50.1	1991	286	16	.0	1.1	30.0	.0	6.0	.0
Jul	82.5	41.9	62.2	102	1994	8	66.9	1975	25	1988	6	53.6	1993	149	62	.1	6.9	31.0	.0	1.9	.0
Aug	82.6	41.8	62.2	104	1972	8	68.0	1977	23	1964	31	57.3	1980	139	52	.2	7.3	31.0	.0	1.3	.0
Sep	73.0	36.3	54.7	99	1998	1	59.0	1979	14+	1983	20	49.8	1982	318	8	.0	.7	29.5	.0	8.2	.0
Oct	62.0	30.7	46.4	90	1980	6	53.6	1988	0	1991	30	41.9	1984	578	0	.0	@	26.8	.1	18.3	@
Nov	46.7	26.8	36.8	76	1961	9	43.9	1999	-16	1955	15	25.4	1985	848	0	.0	.0	11.2	1.7	22.3	.6
Dec	40.6	22.2	31.4	69	1980	15	39.5	1980	-29	1990	21	22.8	1990	1041	0	.0	.0	5.7	4.8	26.4	1.2
Ann	60.0	31.2	45.6	104	Aug 1972	8	68.0	Aug 1977	-29	Dec 1990	21	18.4	Jan 1979	7195	140	.3	16.2	246.0	15.2	194.8	4.1

+ 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/normal/usnormals.html

Issue Date: February 2004

(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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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: GRIZZLY, OR

COOP ID: 353542

Climate Division: OR 7

NWS Call Sign:

Elevation: 3,635 Feet Lat: 44°31N

Lon: 120°56W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med- ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	1.61	1.64	1.98	1980	12	2.99	1998	.15	1985	8.7	5.0	.7	@	.39	.54	.78	.99	1.19	1.41	1.65	1.94	2.32	2.92	3.49
Feb	1.23	1.01	1.40	1956	21	3.29	1986	.22	1990	8.1	3.9	.3	.0	.18	.29	.46	.63	.81	1.00	1.23	1.50	1.86	2.46	3.03
Mar	1.29	1.33	1.50	1950	23	2.91	1983	.10	1977	8.0	4.3	.2	.0	.27	.39	.58	.75	.92	1.11	1.32	1.57	1.90	2.42	2.92
Apr	1.14	1.02	1.49	1978	26	3.15	1978	.04	1977	7.8	3.9	.3	@	.18	.27	.44	.60	.76	.93	1.14	1.39	1.72	2.26	2.78
May	1.39	1.12	1.70	1957	7	5.78	1998	.18	1975	6.7	4.3	.6	.2	.21	.33	.53	.72	.92	1.14	1.39	1.69	2.11	2.78	3.42
Jun	.95	.71	1.70	1958	6	2.80	1972	.00+	1986	5.0	2.9	.3	.1	.00	.11	.28	.43	.59	.76	.95	1.18	1.50	2.02	2.53
Jul	.52	.24	1.10	1995	20	2.02	1987	.00+	1994	3.1	1.6	.3	.1	.00	.00	.00	.08	.18	.30	.44	.64	.91	1.38	1.84
Aug	.68	.26	1.33	1983	31	3.93	1976	.00+	1995	3.0	1.8	.4	.1	.00	.00	.01	.09	.20	.34	.53	.78	1.16	1.83	2.53
Sep	.59	.40	1.63	1981	27	2.40	1986	.00+	1999	3.1	1.8	.2	.1	.00	.00	.00	.00	.19	.38	.57	.79	1.08	1.53	1.97
Oct	.93	.86	1.90	1950	28	1.94	1982	.00+	1988	5.9	3.4	.2	@	.00	.00	.43	.58	.72	.86	1.01	1.18	1.40	1.74	2.06
Nov	1.82	1.51	2.75	1984	2	5.47	1984	.23	1989	10.3	5.1	.7	.2	.29	.45	.71	.96	1.22	1.50	1.83	2.22	2.75	3.61	4.43
Dec	1.30	1.18	5.00	1952	7	4.00	1996	.10	1984	7.3	4.0	.4	.1	.17	.28	.46	.64	.83	1.04	1.29	1.59	1.99	2.65	3.29
Ann	13.45	12.80	5.00	Dec 1952	7	5.78	May 1998	.00+	Sep 1999	77.0	42.0	4.6	.9	8.21	9.16	10.41	11.38	12.26	13.12	14.02	15.03	16.26	18.09	19.69

+ 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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Station: GRIZZLY, OR

COOP ID: 353542

Climate Division: OR 7

NWS Call Sign:

Elevation: 3,635 Feet

Lat: 44° 31N

Lon: 120° 56W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	5.9	4.5	1	#	8.0	1998	11	18.0	1989	9	1998	12	3+	2000	2.7	2.3	.7	.3	.0	4.5	1.4	.4	.0
Feb	5.3	5.0	#	#	6.5	1986	12	14.0	1975	10	1976	25	3	1985	2.6	2.0	.4	.1	.0	2.6	.2	.0	.0
Mar	2.0	.9	#	0	8.0	1999	31	10.5	1985	7	1975	27	1	1975	1.4	1.1	.2	.2	.0	.8	.2	.2	.0
Apr	1.2	.0	#	0	3.0	1971	20	5.5	1971	6	1999	1	#+	1999	.7	.6	.1	.0	.0	.6	.1	.0	.0
May	.3	.0	#	0	4.0	1977	10	6.0	1977	4	1985	31	#+	1986	.2	.1	@	.0	.0	.2	.1	.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	.5	.0	#	0	4.0	1999	27	7.0	1971	3	1971	30	#+	1991	.4	.2	.1	.0	.0	.4	.2	.0	.0
Nov	3.0	2.0	#	0	12.0	1973	5	12.0	1973	20	1973	6	3	1973	1.6	1.4	.5	.2	.1	1.9	.7	.4	.2
Dec	3.3	3.7	#	#	6.0	1988	22	7.1	1974	8	1972	12	3	1972	2.4	2.0	.4	.2	.0	3.5	.7	.1	.0
Ann	21.5	16.1	N/A	N/A	12.0	Nov 1973	5	18.0	Jan 1989	20	Nov 1973	6	3+	Jan 2000	12.0	9.7	2.4	1.0	.1	14.5	3.6	1.1	.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

Complete documentation available from:

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Elevation: 3,635 Feet

Lat: 44° 31N

Lon: 120° 56W

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	8/02	7/29	7/25	7/22	7/19	7/16	7/13	7/10	7/05
32	7/28	7/20	7/15	7/10	7/06	7/02	6/27	6/22	6/14
28	7/07	6/29	6/23	6/19	6/14	6/10	6/05	5/30	5/22
24	6/13	6/03	5/27	5/22	5/16	5/11	5/05	4/28	4/19
20	5/23	5/14	5/08	5/03	4/28	4/23	4/18	4/12	4/03
16	5/11	4/26	4/16	4/07	3/29	3/21	3/12	3/01	2/15
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	7/29	8/02	8/06	8/09	8/12	8/15	8/18	8/22	8/27
32	8/07	8/13	8/18	8/21	8/25	8/28	9/01	9/05	9/11
28	8/27	9/03	9/08	9/12	9/16	9/20	9/24	9/29	10/06
24	9/14	9/20	9/25	9/29	10/03	10/07	10/11	10/15	10/22
20	9/20	9/28	10/04	10/09	10/14	10/18	10/23	10/29	11/06
16	10/04	10/14	10/21	10/27	11/02	11/08	11/14	11/21	12/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	44	37	32	27	23	19	14	9	2
32	77	67	60	55	49	43	37	31	21
28	127	115	107	100	93	86	79	71	60
24	178	164	155	147	139	131	123	114	100
20	201	189	181	174	168	162	155	147	135
16	274	254	240	228	217	206	194	179	160

* 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

Complete documentation available from:

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NWS Call Sign:

Elevation: 3,635 Feet Lat: 44° 31N Lon: 120° 56W

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	1041	847	813	652	483	286	149	139	318	578	848	1041	7195
60	886	707	658	502	339	171	70	59	192	423	698	886	5591
57	793	623	565	414	260	118	37	29	131	333	608	793	4704
55	731	567	503	356	212	88	23	17	97	276	551	731	4152
50	582	431	348	222	118	33	6	2	36	151	412	579	2920
32	152	69	12	5	0	0	0	0	0	2	71	149	460

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	134	145	222	343	542	720	935	936	680	447	212	131	5447
55	0	0	0	5	41	118	246	239	87	9	3	0	748
57	0	0	0	2	27	88	198	189	61	3	0	0	568
60	0	0	0	0	13	51	138	127	32	1	0	0	362
65	0	0	0	0	2	16	62	52	8	0	0	0	140
70	0	0	0	0	0	3	19	14	1	0	0	0	37

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	20	33	59	139	286	479	696	702	456	234	56	24	20	53	112	251	537	1016	1712	2414	2870	3104	3160	3184
45	2	6	20	59	160	331	541	547	311	126	18	0	2	8	28	87	247	578	1119	1666	1977	2103	2121	2121
50	0	0	1	20	79	199	388	393	186	52	1	0	0	0	1	21	100	299	687	1080	1266	1318	1319	1319
55	0	0	0	0	31	101	246	242	89	13	0	0	0	0	0	0	31	132	378	620	709	722	722	722
60	0	0	0	0	5	39	127	123	28	1	0	0	0	0	0	0	5	44	171	294	322	323	323	323
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	7	26	58	126	229	353	480	483	356	210	43	10	7	33	91	217	446	799	1279	1762	2118	2328	2371	2381

(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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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