

Climatology of the United States

No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: RIDDLE, OR

1971-2000

COOP ID: 357169

Climate Division: OR 3

NWS Call Sign:

Elevation: 680 Feet Lat: 42° 57N

Lon: 123° 21W

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	49.1	33.7	41.4	70	1959	23	45.5	1998	-3	1962	22	35.9	1979	731	0	.0	.0	16.0	.1	10.2	.0
Feb	54.4	35.5	45.0	80	1992	26	51.1	1995	8	1989	5	37.6	1989	561	0	.0	.0	22.3	.2	6.9	.0
Mar	58.3	37.3	47.8	85	1994	28	52.8	1993	20+	1956	6	43.3	1985	533	0	.0	.0	28.2	.0	5.1	.0
Apr	62.8	39.5	51.2	94	1987	27	55.8	1989	26+	1972	18	45.5	1975	415	0	.0	.1	29.4	.0	1.9	.0
May	69.2	44.3	56.8	99+	2001	22	63.0	1992	26	1954	1	51.2	1977	265	9	.0	.9	30.9	.0	.2	.0
Jun	76.1	49.2	62.7	103	1961	16	66.5	1992	35	1966	1	58.4	1976	105	35	.1	2.0	30.0	.0	.0	.0
Jul	83.3	53.2	68.3	105+	1998	28	72.1	1985	37	1977	4	64.2	1983	28	128	.6	7.9	31.0	.0	.0	.0
Aug	83.8	52.3	68.1	110	1977	17	71.9	1986	39	1949	14	64.9	1980	26	121	.9	8.2	31.0	.0	.0	.0
Sep	79.1	46.6	62.9	108	1988	3	66.4+	1995	30+	1965	17	58.1	1985	114	50	.3	5.0	30.0	.0	@	.0
Oct	68.4	41.4	54.9	102	1980	3	59.6	1988	22+	1985	10	51.7	1984	314	1	@	.7	30.6	.0	1.5	.0
Nov	54.5	38.4	46.5	77+	1988	1	52.0	1995	13	1978	14	39.8	1985	557	0	.0	.0	23.7	.0	3.8	.0
Dec	47.9	34.2	41.1	74	1979	18	46.3	1995	3	1972	9	35.3	1990	743	0	.0	.0	12.8	.5	8.8	.0
Ann	65.6	42.1	53.9	110	Aug 1977	17	72.1	Jul 1985	-3	Jan 1962	22	35.3	Dec 1990	4392	344	1.9	24.8	315.9	.8	38.4	.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/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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Elevation: 680 Feet Lat: 42°57N

Lon: 123°21W

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	4.70	4.40	2.85	1974	15	9.81	1974	.79+	1985	16.9	9.6	2.9	1.0	1.27	1.71	2.39	2.99	3.57	4.18	4.86	5.67	6.72	8.36	9.90
Feb	3.86	3.20	3.26	1983	18	9.27	1983	.49	1988	15.5	9.1	2.0	.4	.92	1.28	1.85	2.35	2.85	3.38	3.97	4.67	5.60	7.06	8.44
Mar	3.51	3.33	2.30	1991	3	6.85	1983	1.41	2000	16.2	9.3	1.8	.4	1.33	1.66	2.13	2.52	2.89	3.27	3.68	4.15	4.76	5.68	6.53
Apr	2.42	2.56	1.37	1996	1	4.80	1996	.67	1990	13.9	7.1	1.0	.2	.75	.98	1.32	1.61	1.90	2.19	2.52	2.90	3.39	4.15	4.86
May	1.56	1.27	1.94	1963	6	6.77	1998	.28	1982	9.6	5.3	.7	.1	.28	.41	.64	.86	1.08	1.31	1.58	1.91	2.34	3.04	3.71
Jun	.86	.79	1.48	1992	29	3.22	1992	.10	1977	5.8	2.6	.3	.1	.10	.17	.29	.41	.54	.68	.85	1.05	1.33	1.79	2.24
Jul	.38	.27	1.17	2000	8	1.49+	2000	.00+	1998	2.2	1.0	.2	@	.00	.00	.00	.03	.09	.17	.28	.43	.65	1.06	1.48
Aug	.62	.23	1.36	1983	23	3.08	1983	.00+	1996	2.8	1.7	.4	@	.00	.00	.01	.06	.14	.27	.44	.68	1.05	1.71	2.42
Sep	1.01	.67	1.85	1986	26	4.51	1986	.00+	1999	4.9	2.6	.6	.1	.00	.00	.08	.22	.39	.61	.87	1.21	1.71	2.55	3.40
Oct	2.15	1.93	3.86	1950	29	5.02	1979	.03	1987	9.3	5.0	1.3	.3	.23	.39	.68	.98	1.30	1.67	2.09	2.62	3.35	4.55	5.72
Nov	5.20	4.08	2.87	1998	21	15.26	1973	.31	1976	17.5	11.4	3.4	.9	.95	1.42	2.18	2.89	3.61	4.39	5.27	6.34	7.77	10.06	12.24
Dec	5.28	4.43	3.41	1965	28	15.96	1996	.83	1976	17.2	10.9	3.5	.7	1.08	1.56	2.34	3.04	3.76	4.52	5.38	6.42	7.79	9.98	12.06
Ann	31.55	30.15	3.86	Oct 1950	29	15.96	Dec 1996	.00+	Sep 1999	131.8	75.6	18.1	4.2	19.22	21.46	24.42	26.71	28.79	30.82	32.94	35.33	38.25	42.57	46.36

+ 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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NWS Call Sign:

Elevation: 680 Feet

Lat: 42° 57N

Lon: 123° 21W

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	.8	.0	#	0	8.0	1971	14	14.0	1971	10	1971	14	1	1971	.4	.2	.1	.1	.0	.2	.1	.1	@
Feb	.7	.0	#	0	6.0	1971	25	14.0	1971	3	1971	28	#+	1999	.4	.4	.2	@	.0	.2	.1	.0	.0
Mar	.2	.0	#	0	1.6	1971	4	1.9	1971	#	1994	23	#	1994	.2	@	.0	.0	.0	.0	.0	.0	.0
Apr	#	.0	0	0	#	1977	14	#+	1977	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	.3	.0	#	0	6.5	1977	21	6.5	1977	6	1977	21	#+	1994	.1	.1	@	@	.0	.1	@	@	.0
Dec	.9	.0	#	0	6.0	1972	6	10.6	1972	5	1972	5	1	1972	.5	.2	.1	@	.0	.4	.3	.0	.0
Ann	2.9	.0	N/A	N/A	8.0	Jan 1971	14	14.0+	Feb 1971	10	Jan 1971	14	1+	Dec 1972	1.6	.9	.4	.1	.0	.9	.5	.1	@

+ 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	5/26	5/20	5/15	5/11	5/08	5/04	5/01	4/26	4/20
32	5/06	4/27	4/21	4/16	4/11	4/06	4/01	3/25	3/17
28	3/31	3/17	3/08	2/27	2/19	2/12	2/03	1/25	1/11
24	2/18	2/05	1/27	1/18	1/08	12/28	12/08	0/00	0/00
20	2/03	1/19	1/07	12/24	0/00	0/00	0/00	0/00	0/00
16	1/23	1/04	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	9/24	9/29	10/03	10/07	10/11	10/15	10/20	10/27
32	10/04	10/14	10/21	10/28	11/03	11/09	11/15	11/22	12/02
28	10/26	11/10	11/21	11/30	12/08	12/17	12/27	1/07	1/25
24	11/20	12/06	12/19	12/30	1/12	1/28	0/00	0/00	0/00
20	12/05	12/20	1/03	1/19	0/00	0/00	0/00	0/00	0/00
16	12/21	1/15	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	175	167	161	156	151	147	142	136	128
32	246	232	222	213	205	197	188	178	164
28	356	327	312	300	289	279	267	255	237
24	>365	>365	>365	>365	>365	>365	342	321	300
20	>365	>365	>365	>365	>365	>365	>365	>365	339
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

Complete documentation available from:
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Lat: 42°57N

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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	731	561	533	415	265	105	28	26	114	314	557	743	4392
60	576	421	378	271	141	32	4	3	41	173	410	588	3038
57	483	340	292	192	87	11	0	0	17	104	326	495	2347
55	423	288	236	147	59	5	0	0	9	69	273	434	1943
50	279	168	122	62	16	0	0	0	0	18	160	286	1111
32	9	2	0	0	0	0	0	0	0	0	3	8	22

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	301	365	490	576	767	919	1123	1118	926	710	437	288	8020
55	1	7	13	32	112	234	410	405	244	66	17	1	1542
57	0	3	7	18	79	181	348	344	193	39	10	0	1222
60	0	0	0	7	40	112	259	253	127	14	3	0	815
65	0	0	0	0	9	35	128	121	50	1	0	0	344
70	0	0	0	0	0	5	44	38	12	0	0	0	99

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	111	185	268	360	540	698	892	888	705	487	233	105	111	296	564	924	1464	2162	3054	3942	4647	5134	5367	5472
45	35	79	136	216	386	548	737	733	555	334	112	37	35	114	250	466	852	1400	2137	2870	3425	3759	3871	3908
50	1	21	50	105	235	398	582	578	405	190	34	4	1	22	72	177	412	810	1392	1970	2375	2565	2599	2603
55	0	1	7	41	120	253	427	423	260	82	6	0	0	1	8	49	169	422	849	1272	1532	1614	1620	1620
60	0	0	0	6	47	125	275	271	139	24	0	0	0	0	0	6	53	178	453	724	863	887	887	887
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	42	93	155	217	316	421	557	552	444	303	98	37	42	135	290	507	823	1244	1801	2353	2797	3100	3198	3235

(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