

Climatology of the United States

No. 20

1971-2000

Station: ROME 2 NW, OR

COOP ID: 357310

Climate Division: OR 9

NWS Call Sign:

Elevation: 3,405 Feet Lat: 42° 52N

Lon: 117° 39W

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	39.1	18.3	28.7	67	1971	30	36.3	1998	-27	1984	18	18.2	1984	1125	0	.0	.0	4.3	6.5	28.3	2.5
Feb	46.6	23.4	35.0	71	1954	23	41.5	1986	-17	1985	4	25.8	1993	840	0	.0	.0	11.8	2.0	24.3	.9
Mar	54.9	26.7	40.8	80+	1997	19	46.8	1978	-4+	1976	5	33.9	1976	751	0	.0	.0	23.6	.1	23.4	.1
Apr	63.3	31.5	47.4	91	1987	27	54.1	2000	9	1972	17	39.6	1975	531	2	.0	@	28.4	.0	16.4	.0
May	71.8	39.2	55.5	100	1986	30	62.3	1992	14	1961	4	51.4	1975	303	8	@	1.8	30.8	.0	5.7	.0
Jun	81.2	46.0	63.6	105	1977	6	69.9	1977	27+	1981	14	59.6	1984	121	80	.9	7.7	30.0	.0	.7	.0
Jul	90.2	51.8	71.0	107+	1989	25	75.5	1985	28	1986	5	63.9	1993	21	208	3.9	20.7	31.0	.0	.1	.0
Aug	88.9	48.8	68.9	107	1983	6	72.5	1986	28	1960	28	62.5	1976	35	154	2.4	19.2	31.0	.0	.2	.0
Sep	79.4	39.5	59.5	105+	1955	6	65.5	1998	15	1965	18	53.2	1971	201	35	.2	5.6	30.0	.0	5.2	.0
Oct	66.9	30.5	48.7	96	1964	7	56.0	1988	6	1996	21	45.0	1984	504	0	.0	.2	29.7	.0	18.8	.0
Nov	49.9	24.1	37.0	75+	1999	6	43.7	1995	-11	1955	15	29.2	1993	840	0	.0	.0	16.1	1.0	24.0	.3
Dec	39.4	18.3	28.9	65+	1991	6	36.7	1977	-26	1990	22	15.1	1985	1121	0	.0	.0	4.9	5.8	28.3	2.2
Ann	64.3	33.2	48.8	107+	Jul 1989	25	75.5	Jul 1985	-27	Jan 1984	18	15.1	Dec 1985	6393	487	7.4	55.2	271.6	15.4	175.4	6.0

+ 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: 1950-2001

(3) Derived from 1971-2000 serially complete daily data

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No. 20 1971-2000

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

Station: ROME 2 NW, OR

COOP ID: 357310

Climate Division: OR 9

NWS Call Sign:

Elevation: 3,405 Feet Lat: 42° 52N

Lon: 117° 39W

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	.79	.60	1.45	2000	10	3.30	1997	.00+	1991	6.3	2.6	.1	.1	.00	.00	.18	.32	.46	.61	.78	1.00	1.28	1.75	2.21
Feb	.59	.49	.67	1986	19	1.68	1986	.00	1971	5.4	2.2	.1	.0	.03	.09	.17	.26	.35	.45	.57	.72	.93	1.26	1.58
Mar	.79	.61	1.10	1986	8	1.86	1971	.00	1994	5.9	2.9	.2	@	.13	.24	.37	.48	.59	.70	.82	.97	1.16	1.46	1.74
Apr	.83	.77	.75	2000	19	2.74	1978	.00	1972	5.8	3.0	.2	.0	.14	.25	.39	.50	.62	.74	.87	1.02	1.22	1.54	1.84
May	1.17	.96	1.56	1987	26	4.99	1998	.00+	1978	6.2	3.5	.5	.1	.00	.10	.29	.47	.67	.89	1.14	1.46	1.89	2.61	3.31
Jun	.85	.69	1.50	1967	6	2.11	1995	.00+	1977	4.9	2.6	.4	@	.00	.10	.26	.40	.54	.69	.86	1.06	1.34	1.79	2.23
Jul	.44	.24	1.43	1976	19	2.56	1998	.00+	1999	2.2	1.1	.2	.1	.00	.00	.00	.00	.09	.20	.34	.53	.79	1.25	1.71
Aug	.29	.07	1.03	1979	13	1.88	1976	.00+	1991	2.0	.9	.1	@	.00	.00	.00	.00	.00	.08	.19	.33	.53	.87	1.22
Sep	.53	.42	.90	1970	19	2.37	1971	.00+	1999	2.9	1.3	.3	.0	.00	.00	.00	.11	.22	.34	.48	.66	.91	1.34	1.76
Oct	.54	.49	.98	1982	29	2.33	2000	.00+	1988	3.7	1.8	.2	.0	.00	.00	.13	.22	.31	.41	.53	.68	.87	1.19	1.49
Nov	.71	.70	1.26	1967	18	1.53	1971	.00	1976	6.8	2.9	.1	.0	.14	.23	.35	.45	.55	.64	.75	.87	1.04	1.29	1.52
Dec	.75	.52	1.70	1955	23	2.32	1995	.02	1976	6.0	2.7	.2	.0	.05	.10	.19	.30	.41	.54	.70	.90	1.19	1.66	2.13
Ann	8.28	8.07	1.70	Dec 1955	23	4.99	May 1998	.00+	Sep 1999	58.1	27.5	2.6	.3	4.54	5.19	6.07	6.76	7.39	8.01	8.67	9.41	10.33	11.70	12.92

+ 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: 1950-2001

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Climate Division: OR 9

NWS Call Sign:

Elevation: 3,405 Feet

Lat: 42° 52N

Lon: 117° 39W

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	3.2	2.8	1	0	5.0	1975	5	10.0	1975	12	1984	14	8	1984	2.1	1.8	.3	.1	.0	8.2	4.2	1.5	.4
Feb	.7	.0	#	0	2.0	1972	23	3.5+	1979	4	1978	13	1	1985	.7	.4	.0	.0	.0	1.7	.3	.0	.0
Mar	1.4	.0	#	0	5.0	1976	2	10.5	1985	5+	1976	3	1	1976	.8	.6	.1	.1	.0	.5	.2	.1	.0
Apr	.2	#	#	0	2.0	1978	6	2.0	1978	1+	1985	25	#	1985	.2	.1	.0	.0	.0	.1	.0	.0	.0
May	.2	.0	#	0	5.0	1981	6	5.0	1981	#+	1982	10	#	2000	.1	.1	.1	.1	.0	.0	.0	.0	.0
Jun	.0	.0	#	0	.0	0	0	.0	0	0	0	0	#	1978	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	#	0	.0	0	0	.0	0	#	1976	17	#	1976	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	#	0	.0	0	0	.0	0	#	1983	31	#	1983	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	#	.0	0	0	#	1973	24	#+	1973	#	1973	24	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.2	.0	0	0	3.0	1971	17	3.3	1971	#+	1991	31	0	0	.1	.1	@	.0	.0	.0	.0	.0	.0
Nov	1.6	.3	#	0	9.0	1977	21	9.0	1977	9	1977	21	1+	1985	.7	.5	.1	.1	.0	1.2	.3	.2	.0
Dec	2.7	2.0	1	0	6.0	1977	27	10.5	1981	13	1983	29	5+	1985	1.5	1.0	.3	.1	.0	5.7	2.9	2.0	.3
Ann	10.2	5.1	N/A	N/A	9.0	Nov 1977	21	10.5+	Mar 1985	13	Dec 1983	29	8	Jan 1984	6.2	4.6	.9	.5	.0	17.4	7.9	3.8	.7

+ 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	7/09	7/03	6/29	6/25	6/21	6/17	6/14	6/09	6/03
32	6/23	6/16	6/11	6/06	6/02	5/29	5/25	5/19	5/12
28	6/08	5/30	5/24	5/18	5/13	5/08	5/03	4/26	4/18
24	5/13	5/07	5/02	4/28	4/24	4/21	4/17	4/12	4/06
20	5/11	5/02	4/25	4/20	4/15	4/10	4/04	3/29	3/20
16	4/18	4/07	3/31	3/24	3/18	3/12	3/05	2/25	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	8/17	8/23	8/26	8/30	9/02	9/05	9/08	9/12	9/18
32	8/26	9/01	9/05	9/09	9/12	9/15	9/19	9/23	9/29
28	9/12	9/16	9/19	9/22	9/24	9/26	9/29	10/02	10/06
24	9/20	9/25	9/28	10/02	10/05	10/07	10/11	10/14	10/19
20	10/02	10/08	10/12	10/15	10/19	10/22	10/25	10/29	11/04
16	10/10	10/17	10/22	10/26	10/30	11/03	11/07	11/12	11/18
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	97	89	82	77	72	67	62	56	47
32	128	119	112	106	101	96	90	83	74
28	161	151	144	138	133	127	122	115	105
24	188	179	173	168	162	157	152	145	136
20	218	207	199	192	186	180	173	165	154
16	267	253	243	234	225	217	208	198	183

* 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	1125	840	751	531	303	121	21	35	201	504	840	1121	6393
60	970	700	596	390	174	52	4	8	105	352	690	966	5007
57	877	616	505	311	114	27	1	3	64	265	600	873	4256
55	815	560	445	262	82	16	0	1	43	211	540	811	3786
50	666	428	303	161	29	3	0	0	12	101	401	657	2761
32	219	80	18	6	0	0	0	0	0	0	61	203	587

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	118	164	290	467	728	949	1210	1142	824	519	211	105	6727
55	0	0	3	34	98	275	497	430	177	17	0	0	1531
57	0	0	1	22	68	226	436	369	138	8	0	0	1268
60	0	0	0	12	34	161	346	282	89	3	0	0	927
65	0	0	0	2	8	80	208	154	35	0	0	0	487
70	0	0	0	0	1	30	104	64	10	0	0	0	209

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	10	38	100	254	503	730	982	924	611	306	66	12	10	48	148	402	905	1635	2617	3541	4152	4458	4524	4536
45	0	9	35	137	350	580	827	769	462	174	22	2	0	9	44	181	531	1111	1938	2707	3169	3343	3365	3367
50	0	0	5	62	215	432	672	614	321	80	2	0	0	0	5	67	282	714	1386	2000	2321	2401	2403	2403
55	0	0	0	21	115	290	517	460	194	27	0	0	0	0	0	21	136	426	943	1403	1597	1624	1624	1624
60	0	0	0	1	48	167	366	310	96	2	0	0	0	0	0	1	49	216	582	892	988	990	990	990
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	5	47	114	219	354	472	596	568	446	287	70	10	5	52	166	385	739	1211	1807	2375	2821	3108	3178	3188

(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