

Climatography of the United States No. 20

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

Station: FALLS CITY NO 2, OR

1971-2000

COOP ID: 352805

Climate Division: OR 1

NWS Call Sign:

Elevation: 420 Feet

Lat: 44° 51N

Lon: 123° 26W

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	46.4	32.0	39.2	64+	1971	31	43.0+	1998	6	1979	1	30.5	1979	800	0	.0	.0	10.1	.8	17.6	.0
Feb	50.5	33.8	42.2	70+	1992	27	48.6	1992	7+	1989	5	34.2	1989	640	0	.0	.0	16.6	.3	12.6	.0
Mar	55.4	35.6	45.5	78+	1994	29	51.6	1992	19+	1971	2	40.5	1971	605	0	.0	.0	24.9	.0	9.7	.0
Apr	60.3	37.9	49.1	85+	1998	30	53.6	1989	25	1968	13	44.2	1972	477	0	.0	.0	28.5	.0	4.6	.0
May	66.7	42.0	54.4	98	1983	29	59.4	1992	26	1964	2	50.4	1977	333	3	.0	.2	31.0	.0	.8	.0
Jun	72.6	46.5	59.6	101	1992	23	63.2	1986	32+	1976	3	54.9	1971	180	16	@	.9	30.0	.0	@	.0
Jul	80.2	49.7	65.0	104+	1998	28	69.6	1996	35	1970	13	60.8	1993	77	77	.4	4.9	31.0	.0	.0	.0
Aug	81.5	49.8	65.7	104	1977	13	69.1	1986	35	1973	22	61.5	1973	62	81	.6	5.4	31.0	.0	.0	.0
Sep	76.3	46.7	61.5	105	1988	3	66.0	1974	25	1961	29	57.3	1985	148	43	.1	2.6	30.0	.0	.1	.0
Oct	65.0	40.8	52.9	92	1988	2	58.0	1987	24	1970	27	49.2	1984	376	1	.0	.1	30.6	.0	1.6	.0
Nov	52.3	36.1	44.2	72	1962	2	50.9	1995	10	1985	24	36.7	1985	624	0	.0	.0	20.6	.2	9.6	.0
Dec	46.1	32.5	39.3	63	1980	27	42.9	1979	2	1972	9	32.6	1990	798	0	.0	.0	9.8	1.3	15.7	.0
Ann	62.8	40.3	51.6	105	Sep 1988	3	69.6	Jul 1996	2	Dec 1972	9	30.5	Jan 1979	5120	221	1.1	14.1	294.1	2.6	72.3	.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: 1961-2001

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

043-A

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: FALLS CITY NO 2, OR

COOP ID: 352805

Climate Division: OR 1

NWS Call Sign:

Elevation: 420 Feet Lat: 44°51N

Lon: 123°26W

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	10.88	12.03	3.74	1974	15	18.37	1995	.34	1985	17.9	13.7	7.5	3.9	2.34	3.34	4.94	6.38	7.84	9.38	11.12	13.21	15.97	20.36	24.51
Feb	9.58	9.05	4.25	1987	1	20.57	1996	1.81	1988	16.7	13.4	7.0	3.1	2.70	3.61	4.98	6.18	7.35	8.58	9.93	11.53	13.61	16.87	19.90
Mar	7.69	7.61	4.58	1966	9	16.80	1983	1.52	1992	18.4	13.6	5.4	1.9	2.73	3.45	4.50	5.38	6.23	7.09	8.03	9.13	10.53	12.70	14.69
Apr	4.48	3.68	3.30	1991	5	11.30	1996	.55	1977	14.1	9.5	2.7	.9	1.08	1.50	2.15	2.73	3.31	3.93	4.61	5.43	6.50	8.19	9.78
May	2.53	2.43	2.11	1975	3	5.26	1984	.00	1992	10.6	6.2	1.6	.2	.54	.89	1.31	1.65	1.98	2.31	2.67	3.09	3.64	4.49	5.28
Jun	1.43	1.24	2.69	1985	7	4.21	1981	.15	1987	7.5	3.8	.7	.1	.27	.40	.61	.80	1.00	1.21	1.45	1.74	2.13	2.76	3.35
Jul	.51	.35	1.12+	1986	4	2.23	1974	.00+	1995	2.9	1.4	.2	.1	.00	.00	.04	.13	.23	.34	.47	.64	.86	1.24	1.62
Aug	.74	.34	1.15	1977	26	2.40	1975	.00+	1998	3.6	1.9	.4	@	.00	.00	.00	.10	.23	.40	.61	.88	1.28	1.99	2.69
Sep	1.73	1.36	1.80	1971	1	5.75	1997	.00+	1999	6.1	3.7	1.1	.3	.00	.00	.21	.47	.76	1.11	1.54	2.10	2.89	4.24	5.60
Oct	4.25	3.79	3.80	1994	27	11.74	1997	.25	1987	10.6	7.7	3.1	1.0	.48	.81	1.40	1.99	2.63	3.33	4.16	5.19	6.59	8.90	11.15
Nov	10.93	9.93	9.20	1998	25	27.14	1973	1.72	1993	18.9	15.2	7.5	3.1	2.51	3.53	5.13	6.57	8.00	9.52	11.22	13.25	15.92	20.17	24.17
Dec	12.51	13.14	4.55	1964	22	28.55	1996	2.14	1976	18.3	14.3	7.9	4.5	3.42	4.60	6.41	7.99	9.53	11.15	12.95	15.07	17.83	22.18	26.23
Ann	67.26	66.62	9.20	Nov 1998	25	28.55	Dec 1996	.00+	Sep 1999	145.6	104.4	45.1	19.1	41.53	46.25	52.43	57.22	61.54	65.78	70.20	75.15	81.22	90.17	98.02

+ 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: 1961-2001

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

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

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: FALLS CITY NO 2, OR

COOP ID: 352805

Climate Division: OR 1

NWS Call Sign:

Elevation: 420 Feet

Lat: 44° 51N

Lon: 123° 26W

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	2.9	.0	#	#	12.1	1971	13	29.8	1971	23	1971	14	2	1993	1.3	.8	.4	.2	@	1.9	1.0	.5	.1
Feb	2.8	.0	#	#	7.0	1990	15	23.3	1990	13	1990	16	4	1990	1.0	.9	.4	.2	.0	1.6	1.1	.7	.2
Mar	.6	.0	#	0	3.0	1972	2	4.5	1972	8	1971	2	1	1971	.4	.3	@	.0	.0	.2	@	.0	.0
Apr	.2	.0	#	0	3.0	1975	3	3.0	1975	1	1972	17	#+	1975	.1	.1	@	.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	#	1971	27	#	1971	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.5	.0	#	0	7.0	1977	22	7.0	1977	7	1977	22	#+	1993	.1	.1	.1	@	.0	.2	.1	@	.0
Dec	2.5	1.0	#	#	15.0	1972	6	18.5	1972	15	1972	6	4	1972	1.2	.9	.4	.1	@	1.7	.7	.4	.1
Ann	9.5	1.0	N/A	N/A	15.0	Dec 1972	6	29.8	Jan 1971	23	Jan 1971	14	4+	Feb 1990	4.1	3.1	1.3	.5	@	5.6	2.9	1.6	.4

+ 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:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

**Climatography
of the United States
No. 20
1971-2000**

Station: FALLS CITY NO 2, OR

COOP ID: 352805

Climate Division: OR 1

NWS Call Sign:

Elevation: 420 Feet

Lat: 44° 51N

Lon: 123° 26W

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	6/16	6/08	6/02	5/28	5/24	5/19	5/14	5/09	5/01
32	5/21	5/13	5/08	5/03	4/29	4/24	4/19	4/14	4/06
28	4/22	4/09	3/30	3/22	3/14	3/07	2/27	2/17	2/04
24	2/28	2/18	2/12	2/06	1/31	1/26	1/20	1/12	1/01
20	2/18	2/05	1/27	1/18	1/10	12/31	12/16	0/00	0/00
16	2/03	1/21	1/08	12/24	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	9/25	9/30	10/04	10/08	10/12	10/16	10/21	10/27
32	10/07	10/13	10/18	10/22	10/26	10/30	11/03	11/08	11/14
28	10/26	11/04	11/11	11/16	11/22	11/27	12/02	12/09	12/18
24	11/14	11/24	11/30	12/06	12/11	12/17	12/22	12/30	1/10
20	11/24	12/09	12/19	12/29	1/08	1/19	2/05	0/00	0/00
16	12/14	12/28	1/10	1/27	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	171	159	151	143	137	130	122	114	102
32	208	198	191	185	180	174	168	161	151
28	308	288	274	263	251	240	228	214	195
24	>365	336	326	318	312	305	299	291	281
20	>365	>365	>365	>365	>365	352	335	321	306
16	>365	>365	>365	>365	>365	>365	>365	>365	331

* 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:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

**Climatography
of the United States
No. 20
1971-2000**

Station: FALLS CITY NO 2, OR

COOP ID: 352805

Climate Division: OR 1 NWS Call Sign: Elevation: 420 Feet Lat: 44° 51N Lon: 123° 26W

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	800	640	605	477	333	180	77	62	148	376	624	798	5120
60	645	500	450	329	195	79	20	13	65	228	474	643	3641
57	552	416	358	245	128	39	8	4	33	152	389	550	2874
55	490	360	301	192	92	22	3	1	19	109	333	488	2410
50	341	231	168	90	29	3	0	0	3	36	207	341	1449
32	17	6	0	0	0	0	0	0	0	0	7	19	49

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	240	290	419	513	693	826	1022	1042	884	648	373	244	7194
55	0	1	6	15	72	158	312	330	213	43	9	0	1159
57	0	0	1	8	46	115	255	270	167	25	5	0	892
60	0	0	0	2	20	65	175	187	110	8	0	0	567
65	0	0	0	0	3	16	77	81	43	1	0	0	221
70	0	0	0	0	0	2	20	19	11	0	0	0	52

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	70	115	186	284	452	595	783	803	652	410	166	72	70	185	371	655	1107	1702	2485	3288	3940	4350	4516	4588
45	20	39	74	147	299	445	628	648	502	257	67	22	20	59	133	280	579	1024	1652	2300	2802	3059	3126	3148
50	0	5	22	60	163	296	473	493	352	130	15	0	0	5	27	87	250	546	1019	1512	1864	1994	2009	2009
55	0	0	0	17	72	158	318	338	213	46	0	0	0	0	0	17	89	247	565	903	1116	1162	1162	1162
60	0	0	0	1	30	70	179	190	101	11	0	0	0	0	0	1	31	101	280	470	571	582	582	582
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	24	49	102	165	267	352	479	497	401	244	63	21	24	73	175	340	607	959	1438	1935	2336	2580	2643	2664

(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