

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: SILVER CREEK FALLS, OR

1971-2000

COOP ID: 357809

Climate Division: OR 2

NWS Call Sign:

Elevation: 1,350 Feet Lat: 44° 52N

Lon: 122° 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	42.3	31.1	36.7	72	1961	20	41.4	1995	-4	1949	24	29.3	1979	878	0	.0	.0	6.2	.7	18.2	.0
Feb	45.7	32.3	39.0	75+	1968	28	45.1	1991	3	1989	5	32.2	1989	727	0	.0	.0	10.6	.6	15.1	.0
Mar	50.4	33.5	42.0	80	1966	25	46.5	1992	10	1955	5	37.5	1971	716	0	.0	.0	18.5	.0	14.9	.0
Apr	55.8	35.9	45.9	85	1977	23	50.5	1987	19	1951	21	40.2	1975	576	0	.0	.0	23.5	.0	8.5	.0
May	62.5	40.4	51.5	96+	1983	29	56.8	1997	22	1954	1	46.9	1977	421	0	.0	.3	29.4	.0	2.4	.0
Jun	68.2	45.0	56.6	98	1970	1	61.7	1992	30+	1966	1	52.6	1971	258	5	.0	.5	29.9	.0	.3	.0
Jul	75.0	48.1	61.6	101	1979	18	66.1	1996	32	1970	13	58.0	1993	139	32	.1	2.1	31.0	.0	.0	.0
Aug	75.1	47.9	61.5	103	1972	7	65.3	1977	30+	1952	27	57.4	1975	137	28	.2	2.0	31.0	.0	.0	.0
Sep	70.0	43.9	57.0	98+	1988	2	60.0	1991	23	1972	27	51.0	1972	252	11	.0	.6	30.0	.0	.6	.0
Oct	58.8	38.8	48.8	89+	1980	2	54.4	1980	18	1971	29	46.1	1972	503	0	.0	.0	28.2	.0	4.9	.0
Nov	47.1	35.1	41.1	72+	1969	1	46.4	1995	2	1955	15	32.2	1985	718	0	.0	.0	13.7	.3	10.9	.0
Dec	41.6	31.5	36.6	75	1979	17	42.2	1979	-9	1972	8	30.5	1990	883	0	.0	.0	5.3	1.7	17.3	.2
Ann	57.7	38.6	48.2	103	Aug 1972	7	66.1	Jul 1996	-9	Dec 1972	8	29.3	Jan 1979	6208	76	.3	5.5	257.3	3.3	93.1	.2

+ 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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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	9.90	11.01	4.60	1974	15	17.64	1971	.82	1985	16.1	13.3	7.4	3.5	2.42	3.35	4.80	6.08	7.35	8.70	10.20	11.98	14.32	18.02	21.49
Feb	9.35	8.65	3.73	1961	10	24.51	1979	1.48	1993	14.3	11.9	6.4	2.9	2.89	3.78	5.10	6.24	7.33	8.47	9.72	11.19	13.09	16.04	18.78
Mar	8.79	8.93	2.75	1963	29	15.33	1999	1.01	1992	16.7	13.9	6.5	2.3	2.81	3.65	4.88	5.94	6.95	8.00	9.16	10.51	12.25	14.96	17.46
Apr	7.01	6.16	4.00	1997	23	14.00	1996	2.08	1973	14.8	11.2	4.2	1.7	2.67	3.33	4.26	5.04	5.77	6.53	7.34	8.28	9.49	11.33	13.02
May	4.98	4.57	2.51	1991	17	10.09	1977	.00	1992	10.6	8.2	3.2	1.2	1.41	2.13	2.92	3.54	4.11	4.68	5.30	6.01	6.92	8.31	9.57
Jun	3.45	3.18	2.70	1952	29	7.80	1984	.06	1987	8.2	5.6	2.1	.7	.72	1.03	1.54	2.00	2.46	2.96	3.52	4.19	5.08	6.49	7.83
Jul	1.25	1.02	1.75	1995	6	4.58	1983	.00+	1996	4.0	2.7	.8	.3	.00	.00	.27	.48	.70	.94	1.22	1.57	2.04	2.82	3.59
Aug	1.32	.79	1.87	1962	3	5.19	1978	.00+	2000	3.7	2.6	.9	.3	.00	.00	.07	.28	.52	.81	1.17	1.62	2.26	3.35	4.46
Sep	2.75	2.70	2.50	1997	15	7.28	1971	.00+	1999	5.9	4.5	1.7	.7	.00	.00	.48	.99	1.51	2.06	2.70	3.49	4.57	6.29	7.99
Oct	5.38	4.69	5.30	1994	27	13.54	1990	.00	1987	9.5	7.2	3.4	1.3	.51	1.13	2.02	2.80	3.60	4.47	5.45	6.64	8.23	10.80	13.26
Nov	11.29	10.66	5.60	1999	25	25.27	1973	2.25	1976	16.4	13.8	7.6	3.3	3.90	4.96	6.52	7.83	9.08	10.37	11.78	13.43	15.53	18.79	21.79
Dec	10.59	10.43	4.10	1987	3	20.07	1973	2.63	1976	16.0	13.5	7.2	3.1	3.43	4.44	5.92	7.18	8.40	9.65	11.03	12.64	14.72	17.94	20.92
Ann	76.06	76.88	5.60	Nov 1999	25	25.27	Nov 1973	.00+	Aug 2000	136.2	108.4	51.4	21.3	51.41	56.09	62.13	66.75	70.88	74.89	79.05	83.66	89.29	97.49	104.63

+ 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

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Elevation: 1,350 Feet

Lat: 44° 52N

Lon: 122° 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	3.5	.0	#	0	10.8	1971	14	36.7	1971	24	1971	14	3	1971	.8	.6	.3	.2	@	.5	.3	.3	.2
Feb	3.5	.0	#	0	10.5	1971	25	31.0	1971	20	1971	27	4	1996	.8	.6	.3	.2	@	.5	.2	.2	.2
Mar	1.9	.0	#	0	6.0	1971	4	10.1	1971	19	1971	1	4	1971	.9	.7	.2	@	.0	.5	.5	.4	.3
Apr	.4	.0	#	0	4.0	1982	15	4.0	1982	#+	1983	10	#+	1983	.2	.2	@	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.2	1981	4	.2	1981	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	.2	1998	13	.2	1998	0	0	0	0	0	@	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.6	.0	0	0	5.0	1977	22	9.5	1977	0	0	0	0	0	.4	.3	.1	@	.0	.0	.0	.0	.0
Dec	2.6	.0	#	0	7.5	1975	13	10.0	1972	9	1980	5	2	1980	1.0	.6	.3	.1	.0	.8	.5	.3	.0
Ann	12.5	.0	N/A	N/A	10.8	Jan 1971	14	36.7	Jan 1971	24	Jan 1971	14	4+	Feb 1996	4.1	3.0	1.2	.5	@	2.3	1.5	1.2	.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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Elevation: 1,350 Feet

Lat: 44° 52N

Lon: 122° 39W

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	6/29	6/21	6/15	6/10	6/05	6/01	5/27	5/21	5/13
32	6/04	5/28	5/23	5/19	5/15	5/11	5/06	5/01	4/24
28	5/09	4/29	4/22	4/15	4/09	4/03	3/28	3/21	3/10
24	4/07	3/22	3/09	2/27	2/17	2/07	1/27	1/14	12/25
20	2/23	2/12	2/05	1/29	1/23	1/17	1/09	12/30	0/00
16	2/12	1/30	1/20	1/11	1/01	12/21	11/30	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	9/01	9/07	9/12	9/16	9/19	9/23	9/27	10/01	10/08
32	9/23	9/29	10/03	10/07	10/10	10/14	10/18	10/22	10/28
28	10/04	10/14	10/21	10/28	11/02	11/08	11/14	11/22	12/02
24	10/19	11/02	11/12	11/21	11/29	12/08	12/17	12/28	1/13
20	11/10	11/26	12/08	12/19	12/29	1/08	1/21	2/09	0/00
16	11/29	12/14	12/25	1/05	1/16	1/31	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	139	127	119	112	105	99	91	83	71
32	174	165	159	153	148	143	137	131	122
28	253	237	226	216	206	197	187	175	159
24	>365	336	311	294	280	266	253	237	216
20	>365	>365	>365	>365	345	326	310	294	275
16	>365	>365	>365	>365	>365	>365	346	329	314

* 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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Elevation: 1,350 Feet Lat: 44° 52N Lon: 122° 39W

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	878	727	716	576	421	258	139	137	252	503	718	883	6208
60	723	587	561	426	273	133	54	51	135	349	568	728	4588
57	630	503	468	339	193	79	23	21	83	259	480	635	3713
55	568	447	406	282	147	50	12	10	55	204	423	573	3177
50	416	312	260	157	62	11	1	1	14	92	288	420	2034
32	41	15	5	0	0	0	0	0	0	0	20	36	117

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	186	212	312	414	602	737	916	914	748	520	293	176	6030
55	0	0	0	7	36	98	215	211	114	11	5	0	697
57	0	0	0	3	20	66	164	159	81	4	2	0	499
60	0	0	0	0	8	30	103	97	44	1	0	0	283
65	0	0	0	0	0	5	32	28	11	0	0	0	76
70	0	0	0	0	0	0	6	5	1	0	0	0	12

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	45	68	116	212	386	520	700	694	537	311	105	48	45	113	229	441	827	1347	2047	2741	3278	3589	3694	3742
45	6	16	35	96	236	370	545	539	387	168	30	9	6	22	57	153	389	759	1304	1843	2230	2398	2428	2437
50	0	0	3	36	122	224	390	384	242	71	5	0	0	0	3	39	161	385	775	1159	1401	1472	1477	1477
55	0	0	0	3	50	106	239	232	121	22	0	0	0	0	0	3	53	159	398	630	751	773	773	773
60	0	0	0	0	17	38	111	106	44	5	0	0	0	0	0	0	17	55	166	272	316	321	321	321
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	7	32	69	126	226	300	427	428	330	176	33	5	7	39	108	234	460	760	1187	1615	1945	2121	2154	2159

(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