

# Climatography of the United States

No. 20

1971-2000

Station: TOKETEE FALLS, OR

COOP ID: 358536

Climate Division: OR 3

NWS Call Sign:

Elevation: 2,060 Feet Lat: 43° 17N

Lon: 122° 27W

## 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	41.3	29.8	35.6	64	1961	7	40.9	1995	0	1962	21	31.5	1972	913	0	.0	.0	3.0	.5	21.9	.0
Feb	46.4	31.3	38.9	75	1968	28	43.5	1991	4	1989	5	32.8	1989	733	0	.0	.0	10.0	.4	16.8	.0
Mar	52.4	33.5	43.0	80	1960	20	48.0	1978	14	1971	1	37.7	1971	685	0	.0	.0	20.1	.0	15.1	.0
Apr	59.8	36.5	48.2	90+	1987	27	53.6	1987	23	1972	18	42.1	1975	506	0	.0	.1	24.8	.0	7.8	.0
May	68.5	41.6	55.1	105	1983	28	62.2	1992	27+	1969	1	49.5	1977	317	8	.1	1.5	29.9	.0	1.5	.0
Jun	76.3	46.9	61.6	105	1961	15	66.4	1987	31	1976	4	57.7	1980	139	36	.2	3.6	30.0	.0	@	.0
Jul	84.2	50.7	67.5	108	1972	4	71.3	1996	35	1973	1	61.6	1993	43	118	1.1	10.4	31.0	.0	.0	.0
Aug	83.9	49.9	66.9	109	1971	10	71.1	1986	34	1974	13	62.7	1975	49	107	1.3	9.7	31.0	.0	.0	.0
Sep	76.0	44.5	60.3	109	1955	4	64.7	1991	26	1970	14	54.7	1986	179	36	.1	3.2	29.9	.0	.7	.0
Oct	61.4	38.3	49.9	93	1970	2	55.6	1987	18	1971	29	46.4	1971	469	1	.0	.1	28.4	.0	5.1	.0
Nov	46.2	33.8	40.0	72+	1981	11	45.4	1995	12+	1985	12	34.0	1985	750	0	.0	.0	10.7	.2	13.4	.0
Dec	40.2	30.1	35.2	63	1962	14	39.7	1995	-5	1972	8	30.1	1990	926	0	.0	.0	2.3	1.2	21.2	.1
Ann	61.4	38.9	50.2	109+	Aug 1971	10	71.3	Jul 1996	-5	Dec 1972	8	30.1	Dec 1990	5709	306	2.8	28.6	251.1	2.3	103.5	.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/normals/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normals/usnormals.html)

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1953-2001

(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: TOKETEE FALLS, OR**

**COOP ID: 358536**

**Climate Division: OR 3**

**NWS Call Sign:**

**Elevation: 2,060 Feet Lat: 43°17N**

**Lon: 122°27W**

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	6.61	6.84	3.09	1974	15	12.06	1974	.46	1985	17.1	12.6	4.7	1.7	1.61	2.23	3.19	4.05	4.90	5.80	6.81	8.01	9.57	12.06	14.39
Feb	5.55	4.79	3.30	1986	18	12.53	1986	1.71	1988	16.9	11.9	3.9	.9	2.03	2.55	3.30	3.93	4.53	5.14	5.81	6.58	7.57	9.09	10.49
Mar	5.44	4.82	2.40	1972	2	11.31	1989	1.75	1992	18.7	12.9	3.3	.8	2.45	2.93	3.60	4.14	4.65	5.16	5.71	6.33	7.12	8.31	9.39
Apr	4.26	3.85	1.98	1996	24	8.16	1993	1.46	1987	16.9	11.0	2.4	.5	1.80	2.19	2.73	3.17	3.59	4.01	4.46	4.98	5.64	6.64	7.55
May	3.07	2.71	1.39	1979	5	6.31	1993	.47	1982	12.5	7.9	1.8	.2	.91	1.20	1.64	2.02	2.38	2.77	3.19	3.69	4.33	5.33	6.27
Jun	1.75	1.44	2.08	1997	30	4.97	1995	.14	1977	8.1	4.7	.9	.1	.34	.50	.76	1.00	1.24	1.49	1.78	2.13	2.60	3.35	4.06
Jul	.80	.53	1.87	1999	23	4.46	1987	.00+	1988	3.8	2.0	.5	.2	.00	.02	.09	.19	.32	.48	.68	.94	1.33	2.00	2.69
Aug	1.13	.70	1.50	1999	11	5.58	1976	.00+	1994	4.1	2.7	.7	.2	.00	.00	.00	.11	.30	.54	.86	1.30	1.94	3.09	4.25
Sep	1.63	1.30	1.82	1977	28	6.00	1986	.00+	1999	6.2	4.4	.8	.2	.00	.00	.23	.47	.75	1.08	1.48	1.99	2.70	3.93	5.15
Oct	3.55	3.41	2.08	1961	27	7.36	1996	.10	1987	10.5	7.0	2.6	.6	.61	.92	1.44	1.93	2.42	2.96	3.58	4.33	5.33	6.95	8.49
Nov	7.65	6.77	5.11	1996	18	19.12	1973	1.13	1976	18.9	14.0	5.3	1.7	2.12	2.85	3.95	4.91	5.85	6.84	7.93	9.22	10.89	13.52	15.97
Dec	7.41	6.64	3.54	1964	22	19.95	1996	1.06	1976	17.5	13.0	5.6	2.1	1.75	2.44	3.53	4.49	5.46	6.48	7.62	8.98	10.76	13.59	16.25
Ann	48.85	47.84	5.11	Nov 1996	18	19.95	Dec 1996	.00+	Sep 1999	151.2	104.1	32.5	9.2	33.83	36.71	40.41	43.23	45.75	48.19	50.71	53.50	56.90	61.84	66.13

+ 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: 1953-2001

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**Climate Division: OR 3**

**NWS Call Sign:**

**Elevation: 2,060 Feet**

**Lat: 43° 17N**

**Lon: 122° 27W**

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	9.6	2.5	3	#	12.5	1971	14	39.3	1996	27	1971	14	15	1993	2.8	2.2	1.3	.6	.1	7.2	6.2	5.2	3.6
Feb	7.9	2.5	2	#	16.0	1993	21	56.5	1971	20+	1989	2	11	1990	2.1	1.7	1.0	.6	.2	5.2	4.1	3.3	1.6
Mar	4.5	.0	#	0	9.0	1975	22	31.3	1985	17	1971	4	6	1971	1.6	1.4	.6	.3	.0	1.4	.9	.5	.1
Apr	.3	.0	#	0	4.0	1972	12	4.0	1972	2	1982	3	#+	1995	.2	.1	@	.0	.0	@	.0	.0	.0
May	#	.0	0	0	#	1988	1	#+	1988	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	.3	.0	#	0	4.0	1996	25	4.0	1996	3	1971	30	#	1971	.1	.1	.1	.0	.0	@	@	.0	.0
Nov	3.8	.5	#	0	11.0	1977	21	23.0	1985	13	1985	22	5	1985	1.6	1.2	.5	.3	@	2.3	1.5	.7	.0
Dec	7.8	1.3	1	#	14.0	1972	6	52.0	1971	22	1971	15	11	1971	2.7	2.0	1.1	.6	.2	6.6	4.5	2.9	1.3
Ann	34.2	6.8	N/A	N/A	16.0	Feb 1993	21	56.5	Feb 1971	27	Jan 1971	14	15	Jan 1993	11.1	8.7	4.6	2.4	.5	22.7	17.2	12.6	6.6

+ 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	6/29	6/20	6/13	6/08	6/02	5/28	5/22	5/16	5/07
32	5/27	5/21	5/16	5/12	5/08	5/05	5/01	4/26	4/20
28	5/04	4/24	4/17	4/11	4/05	3/30	3/24	3/17	3/07
24	3/19	3/08	2/28	2/21	2/14	2/07	1/31	1/23	1/09
20	3/04	2/18	2/07	1/29	1/20	1/11	12/31	12/16	0/00
16	2/23	2/08	1/27	1/17	1/07	12/26	12/08	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	9/11	9/15	9/19	9/22	9/26	9/30	10/07
32	9/16	9/22	9/26	9/30	10/04	10/07	10/11	10/15	10/22
28	10/10	10/18	10/25	10/30	11/04	11/09	11/15	11/21	11/30
24	11/04	11/15	11/22	11/29	12/05	12/11	12/18	12/26	1/08
20	11/16	11/29	12/08	12/16	12/24	1/01	1/11	1/26	0/00
16	11/26	12/12	12/24	1/03	1/15	1/29	2/22	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	146	133	123	115	108	100	92	82	69
32	173	164	158	153	148	142	137	131	122
28	255	241	230	221	212	204	195	184	169
24	352	327	314	303	293	284	274	263	248
20	>365	>365	>365	347	332	321	310	298	283
16	>365	>365	>365	>365	>365	355	334	318	300

\* 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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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	913	733	685	506	317	139	43	49	179	469	750	926	5709
60	758	593	530	360	188	57	9	11	89	319	600	771	4285
57	665	509	437	278	127	27	2	3	51	237	510	678	3524
55	603	453	377	226	94	15	0	1	33	187	451	616	3056
50	448	315	234	121	34	2	0	0	8	88	309	461	2020
32	46	15	3	0	0	0	0	0	0	0	15	37	116

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	156	206	342	484	714	887	1098	1082	847	554	255	135	6760
55	0	0	2	20	95	212	385	370	190	29	1	0	1304
57	0	0	0	12	66	164	325	310	148	16	0	0	1041
60	0	0	0	4	34	104	239	224	96	6	0	0	707
65	0	0	0	0	8	36	118	107	36	1	0	0	306
70	0	0	0	0	0	7	41	34	9	0	0	0	91

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	21	54	139	272	484	665	870	854	627	330	79	26	21	75	214	486	970	1635	2505	3359	3986	4316	4395	4421
45	0	9	46	150	336	515	715	699	477	190	20	0	0	9	55	205	541	1056	1771	2470	2947	3137	3157	3157
50	0	0	10	68	201	366	560	544	330	84	0	0	0	0	10	78	279	645	1205	1749	2079	2163	2163	2163
55	0	0	0	25	102	230	405	389	202	28	0	0	0	0	0	25	127	357	762	1151	1353	1381	1381	1381
60	0	0	0	4	44	118	256	241	93	7	0	0	0	0	0	4	48	166	422	663	756	763	763	763
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	2	29	91	177	301	416	535	528	401	202	22	0	2	31	122	299	600	1016	1551	2079	2480	2682	2704	2704

(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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/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](http://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"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)