

Climatography of the United States

No. 20

1971-2000

Station: TIDEWATER 2 SW, OR

COOP ID: 358481

Climate Division: OR 1

NWS Call Sign:

Elevation: 35 Feet

Lat: 44° 24N

Lon: 123° 56W

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	50.0	35.2	42.6	68+	1993	29	47.6	1995	8	1950	31	37.0	1979	694	0	.0	.0	19.9	.0	9.6	.0
Feb	54.4	36.8	45.6	80	1968	28	51.0	1995	10+	1989	5	38.6	1989	543	0	.0	.0	23.3	.2	5.8	.0
Mar	57.7	38.4	48.1	81+	1987	31	53.6	1986	23	1952	31	42.9	1971	525	0	.0	.0	27.8	.0	3.5	.0
Apr	60.3	39.7	50.0	89	1987	26	55.1	1989	26+	1982	2	45.1	1975	450	0	.0	.0	29.2	.0	1.4	.0
May	65.0	44.0	54.5	95+	1983	27	59.8	1993	30	1985	12	49.8	1991	330	4	.0	.2	31.0	.0	.1	.0
Jun	69.4	48.1	58.8	99+	1995	29	62.4	1992	35	1976	3	55.1	1976	193	6	.0	.7	30.0	.0	.0	.0
Jul	73.9	51.8	62.9	106	1961	11	65.6+	1996	38	1984	10	60.9	1971	86	20	@	.6	31.0	.0	.0	.0
Aug	75.6	52.5	64.1	104	1981	9	66.8	1997	40+	1980	29	60.4	1973	66	36	.1	.9	31.0	.0	.0	.0
Sep	74.4	49.5	62.0	100	1958	6	65.4	1994	29	1983	30	58.0	1972	114	23	.0	1.4	30.0	.0	@	.0
Oct	66.7	45.0	55.9	93	1980	2	58.6	1978	25	1949	19	53.1	1971	285	1	.0	@	31.0	.0	.3	.0
Nov	55.1	39.8	47.5	80	1962	1	51.9	1995	17	1952	28	41.3	1985	527	0	.0	.0	26.7	.0	3.3	.0
Dec	49.7	35.7	42.7	67	1980	26	46.7	1973	5	1972	8	35.4	1990	692	0	.0	.0	18.9	.4	8.1	.0
Ann	62.7	43.0	52.9	106	Jul 1961	11	66.8	Aug 1997	5	Dec 1972	8	35.4	Dec 1990	4505	90	.1	3.8	329.8	.6	32.1	.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: 1948-2000

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

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: TIDEWATER 2 SW, OR

COOP ID: 358481

Climate Division: OR 1

NWS Call Sign:

Elevation: 35 Feet

Lat: 44°24N

Lon: 123°56W

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	14.22	14.57	5.76	1972	11	23.73	1974	1.23	1985	20.3	17.0	9.7	4.8	4.04	5.39	7.43	9.21	10.94	12.74	14.74	17.10	20.16	24.96	29.42
Feb	11.93	10.82	4.16	1949	17	25.22	1999	3.48	1993	18.4	15.5	8.7	3.7	4.22	5.35	6.98	8.35	9.66	11.00	12.47	14.17	16.35	19.72	22.82
Mar	10.88	11.01	3.43	1966	9	18.86	1983	2.18	1992	19.9	16.3	8.9	3.0	4.07	5.09	6.55	7.76	8.92	10.10	11.38	12.87	14.77	17.68	20.35
Apr	7.00	7.04	3.20+	1971	9	12.55	1993	1.45	1977	16.6	13.5	5.2	1.6	2.75	3.40	4.32	5.08	5.80	6.53	7.33	8.24	9.40	11.19	12.81
May	4.66	4.23	3.08	1949	1	8.46	1984	.35	1992	14.1	9.6	3.4	.5	1.32	1.76	2.43	3.02	3.58	4.18	4.83	5.61	6.61	8.19	9.65
Jun	2.77	2.62	2.40	1985	6	6.75	1984	.39	1987	10.0	6.6	1.3	.4	.57	.82	1.23	1.60	1.97	2.37	2.82	3.37	4.09	5.23	6.32
Jul	.87	.58	1.72	1993	22	3.16	1987	.00	1973	4.7	2.4	.4	.2	.04	.12	.25	.38	.51	.67	.85	1.07	1.37	1.87	2.36
Aug	1.16	.85	1.50	1968	23	3.72	1977	.00	1981	4.6	2.8	.6	.2	.02	.08	.22	.38	.57	.79	1.06	1.40	1.89	2.73	3.57
Sep	2.72	2.76	2.27	1959	26	6.49	1971	.00+	1975	7.7	5.3	2.1	.5	.00	.11	.46	.85	1.30	1.83	2.48	3.31	4.48	6.48	8.49
Oct	5.92	5.53	3.10	1951	23	11.94	1984	.52	1987	13.1	10.1	4.0	1.6	1.15	1.69	2.56	3.36	4.17	5.04	6.02	7.21	8.79	11.32	13.72
Nov	14.07	13.72	4.65	1973	15	31.09	1973	2.55	1976	20.5	17.0	9.8	4.3	4.77	6.10	8.05	9.70	11.28	12.91	14.68	16.76	19.42	23.55	27.35
Dec	15.42	15.84	9.00	1998	19	31.46	1998	3.93	1976	20.8	17.1	10.0	5.0	5.53	6.98	9.07	10.84	12.52	14.24	16.12	18.30	21.09	25.39	29.34
Ann	91.62	88.55	9.00	Dec 1998	19	31.46	Dec 1998	.00+	Aug 1981	170.7	133.2	64.1	25.8	62.47	68.02	75.19	80.66	85.54	90.28	95.19	100.64	107.27	116.93	125.33

+ 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: 1948-2000

(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: TIDEWATER 2 SW, OR

COOP ID: 358481

Climate Division: OR 1

NWS Call Sign:

Elevation: 35 Feet

Lat: 44° 24N

Lon: 123° 56W

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	.0	#	0	4.0	1975	9	4.0	1975	5	1971	12	#+	1975	.1	.1	.1	.0	.0	@	@	.0	.0
Feb	.4	.0	#	0	7.5	1989	2	7.5	1989	2	1999	9	#	1999	.2	.2	.1	.1	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	#	.0	0	0	#	1976	15	#	1976	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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.8	.0	#	0	6.0	1972	5	13.0	1972	#	1978	31	#	1978	.3	.2	.2	.1	.0	.0	.0	.0	.0
Ann	1.5	.0	N/A	N/A	7.5	Feb 1989	2	13.0	Dec 1972	5	Jan 1971	12	#+	Feb 1999	.6	.5	.4	.2	.0	@	@	.0	.0

+ 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: TIDEWATER 2 SW, OR

COOP ID: 358481

Climate Division: OR 1

NWS Call Sign:

Elevation: 35 Feet

Lat: 44° 24N

Lon: 123° 56W

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	5/23	5/15	5/10	5/06	5/01	4/27	4/23	4/17	4/10
32	5/03	4/23	4/15	4/08	4/02	3/27	3/21	3/13	3/02
28	3/06	2/23	2/14	2/08	2/01	1/25	1/18	1/08	12/21
24	2/09	1/29	1/21	1/13	1/05	12/26	0/00	0/00	0/00
20	1/26	1/08	12/23	11/28	0/00	0/00	0/00	0/00	0/00
16	1/11	12/23	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	10/02	10/09	10/14	10/19	10/23	10/28	11/01	11/07	11/14
32	10/19	10/27	11/03	11/08	11/13	11/18	11/23	11/30	12/08
28	11/07	11/19	11/28	12/05	12/12	12/19	12/27	1/06	1/26
24	11/29	12/12	12/23	1/02	1/13	1/29	0/00	0/00	0/00
20	12/08	12/24	1/08	2/01	0/00	0/00	0/00	0/00	0/00
16	12/26	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	205	194	187	180	174	168	162	154	144
32	268	253	242	233	224	215	206	195	180
28	>365	>365	338	322	310	299	288	276	259
24	>365	>365	>365	>365	>365	>365	346	329	312
20	>365	>365	>365	>365	>365	>365	>365	>365	333
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:
www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

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

Station: TIDEWATER 2 SW, OR

COOP ID: 358481

Climate Division: OR 1

NWS Call Sign:

Elevation: 35 Feet

Lat: 44° 24N

Lon: 123° 56W

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	694	543	525	450	330	193	86	66	114	285	527	692	4505
60	539	403	375	306	193	79	15	9	33	143	377	537	3009
57	446	324	288	224	128	36	2	1	10	77	292	444	2272
55	387	272	234	175	94	19	0	0	4	45	237	384	1851
50	246	157	126	83	31	2	0	0	0	8	124	243	1020
32	7	1	0	0	0	0	0	0	0	0	0	6	14

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	336	382	498	540	698	803	957	994	899	738	463	338	7646
55	3	9	19	25	78	131	244	281	213	71	11	2	1087
57	0	5	11	14	51	89	184	220	159	40	5	0	778
60	0	0	5	6	23	42	104	134	92	13	0	0	419
65	0	0	0	0	4	6	20	36	23	1	0	0	90
70	0	0	0	0	0	0	0	3	2	0	0	0	5

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	157	214	283	342	484	591	740	769	691	515	266	151	157	371	654	996	1480	2071	2811	3580	4271	4786	5052	5203
45	60	98	141	194	331	441	585	614	541	360	135	57	60	158	299	493	824	1265	1850	2464	3005	3365	3500	3557
50	9	30	49	85	182	291	430	459	391	211	46	10	9	39	88	173	355	646	1076	1535	1926	2137	2183	2193
55	0	3	0	25	74	149	275	304	242	89	4	0	0	3	3	28	102	251	526	830	1072	1161	1165	1165
60	0	0	0	2	24	49	125	153	106	21	0	0	0	0	0	2	26	75	200	353	459	480	480	480
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	54	98	140	185	262	326	439	462	415	287	106	42	54	152	292	477	739	1065	1504	1966	2381	2668	2774	2816

(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