

Climatography of the United States

No. 20

1971-2000

Station: PELTON DAM, OR

COOP ID: 356532

Climate Division: OR 7

NWS Call Sign:

Elevation: 1,410 Feet Lat: 44°44N

Lon: 121°15W

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	46.1	25.9	36.0	71	1989	30	41.4	1992	-12+	1962	22	19.1	1979	899	0	.0	.0	11.8	3.3	23.9	.5
Feb	53.0	28.6	40.8	78+	1995	24	47.3	1991	-11	1989	5	30.4	1989	677	0	.0	.0	18.2	1.1	19.3	.4
Mar	61.7	31.2	46.5	86+	1997	25	51.1	1986	10	1993	1	42.1	1971	576	0	.0	.0	29.3	.0	19.0	.0
Apr	69.5	34.8	52.2	95	1987	27	57.6	1987	17	1997	12	46.3	1975	388	3	.0	.5	30.0	.0	11.9	.0
May	78.3	40.5	59.4	108+	2001	23	65.0	1992	22	2001	29	55.3	1977	195	22	.4	4.0	31.0	.0	4.1	.0
Jun	86.5	46.4	66.5	108+	2000	29	71.4	1987	29	1976	2	61.7	1997	66	110	1.8	10.0	30.0	.0	.2	.0
Jul	95.4	50.6	73.0	114+	1994	22	78.4	1985	36	1988	6	65.7	1993	11	259	9.6	21.5	31.0	.0	.0	.0
Aug	95.1	50.2	72.7	117	1998	4	76.4+	1986	36+	1993	26	68.2	1980	10	247	9.0	20.8	31.0	.0	@	.0
Sep	86.1	43.5	64.8	108	1988	3	69.6	1990	25+	2000	23	59.7	1985	96	90	1.2	10.2	30.0	.0	1.3	.0
Oct	72.3	36.1	54.2	103	1996	9	61.0	1988	14	1971	29	50.4	1984	336	2	@	1.1	30.4	.0	10.0	.0
Nov	54.3	31.5	42.9	81	1999	13	48.0	1999	-2	1993	25	32.3	1985	663	0	.0	.0	21.3	.5	16.4	.1
Dec	46.0	26.4	36.2	69+	1980	25	42.1	1973	-15	1972	8	24.9	1985	893	0	.0	.0	11.8	2.7	24.1	.5
Ann	70.4	37.1	53.8	117	Aug 1998	4	78.4	Jul 1985	-15	Dec 1972	8	19.1	Jan 1979	4810	733	22.0	68.1	305.8	7.6	130.2	1.5

+ 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: 1958-2001

(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: PELTON DAM, OR

COOP ID: 356532

Climate Division: OR 7

NWS Call Sign:

Elevation: 1,410 Feet Lat: 44°44N

Lon: 121°15W

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	1.65	1.65	.93	1990	8	3.87	1995	.15	1985	9.9	5.3	.6	.0	.32	.46	.71	.93	1.16	1.40	1.68	2.01	2.45	3.16	3.84
Feb	1.10	.94	1.15	1961	10	3.24	1983	.10	1990	9.7	3.4	.3	@	.15	.24	.40	.55	.71	.89	1.10	1.35	1.69	2.24	2.78
Mar	.95	.83	.71	1999	31	2.35	1983	.09	1973	8.6	3.2	.2	.0	.18	.27	.41	.54	.67	.81	.96	1.16	1.41	1.82	2.20
Apr	.80	.76	1.22	1978	26	2.25	1989	.03	1985	6.6	2.4	.2	.1	.07	.12	.23	.34	.46	.60	.77	.97	1.26	1.74	2.20
May	.85	.73	1.34	1998	29	4.12	1998	.00	1974	6.0	3.0	.2	.1	.05	.13	.27	.39	.52	.67	.84	1.05	1.34	1.80	2.26
Jun	.56	.47	.87	1969	9	1.53	1988	.00+	1974	4.2	1.8	.2	.0	.00	.04	.12	.21	.30	.40	.53	.69	.90	1.27	1.62
Jul	.37	.26	.89	1995	9	1.70	1987	.00+	1994	2.6	1.4	.2	.0	.00	.00	.03	.08	.15	.22	.32	.44	.62	.92	1.22
Aug	.44	.25	.78	1965	24	1.54	1976	.00+	2000	2.6	1.3	.2	.0	.00	.00	.00	.06	.15	.25	.37	.53	.77	1.17	1.58
Sep	.41	.26	1.15	1982	20	1.82	1982	.00+	1999	3.6	1.4	.1	@	.00	.00	.02	.09	.17	.26	.37	.50	.70	1.02	1.36
Oct	.65	.55	.74	1982	29	1.67	1982	.00+	1988	5.1	2.2	.2	.0	.00	.08	.19	.30	.41	.52	.65	.81	1.03	1.39	1.73
Nov	1.53	1.08	2.80	1996	19	4.78	1996	.18	1974	10.4	4.3	.6	.1	.17	.28	.50	.71	.94	1.19	1.49	1.87	2.38	3.22	4.04
Dec	1.49	1.01	2.00	1964	23	5.19	1981	.03	1976	10.1	4.7	.5	@	.12	.23	.42	.63	.86	1.12	1.42	1.81	2.35	3.25	4.13
Ann	10.80	9.68	2.80	Nov 1996	19	5.19	Dec 1981	.00+	Aug 2000	79.4	34.4	3.5	.3	5.88	6.73	7.88	8.79	9.62	10.44	11.30	12.28	13.50	15.30	16.91

+ 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: 1958-2001

(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: PELTON DAM, OR

COOP ID: 356532

Climate Division: OR 7

NWS Call Sign:

Elevation: 1,410 Feet

Lat: 44° 44N

Lon: 121° 15W

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	1.3	.0	#	0	5.0	1981	27	5.0	1981	9	1993	17	7	1993	.6	.5	.1	.1	.0	.3	.1	.0	.0
Feb	.5	.0	1	0	7.0	1975	8	7.0	1975	18	1986	13	17	1986	.1	.0	.0	.0	.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	0	.0	0	0	.0	0	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	1.2	.0	#	0	8.0	1977	22	8.5	1977	11	1977	22	#	1977	.4	.3	.1	.1	.0	.1	.0	.0	.0
Dec	1.7	.5	#	0	6.0	1985	1	11.0	1985	5	1972	12	2	1972	.8	.7	.2	.1	.0	.1	.0	.0	.0
Ann	4.7	.5	N/A	N/A	8.0	Nov 1977	22	11.0	Dec 1985	18	Feb 1986	13	17	Feb 1986	1.9	1.5	.4	.3	.0	.5	.1	.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/normals/usnormals.html

Climatography of the United States

No. 20 1971-2000

Station: PELTON DAM, OR

COOP ID: 356532

Climate Division: OR 7

NWS Call Sign:

Elevation: 1,410 Feet

Lat: 44° 44N

Lon: 121° 15W

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	6/26	6/21	6/17	6/13	6/10	6/07	6/04	5/31	5/25
32	6/05	5/31	5/27	5/23	5/20	5/17	5/14	5/10	5/04
28	5/15	5/10	5/06	5/03	4/30	4/27	4/24	4/20	4/14
24	5/01	4/23	4/17	4/12	4/07	4/03	3/29	3/23	3/15
20	4/06	3/27	3/20	3/13	3/08	3/02	2/23	2/16	2/06
16	3/05	2/22	2/14	2/07	1/31	1/25	1/18	1/09	12/27
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	8/28	9/02	9/07	9/10	9/14	9/17	9/20	9/25	10/01
32	9/12	9/18	9/22	9/26	9/29	10/02	10/06	10/10	10/16
28	9/24	9/30	10/05	10/08	10/12	10/15	10/19	10/24	10/30
24	10/12	10/18	10/23	10/27	10/31	11/04	11/08	11/13	11/19
20	10/28	11/07	11/14	11/20	11/25	12/01	12/06	12/13	12/23
16	11/05	11/17	11/26	12/03	12/10	12/17	12/25	1/03	1/18
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	118	110	104	99	95	90	85	80	72
32	156	148	141	136	131	126	121	114	106
28	188	180	174	169	164	160	155	149	140
24	238	227	219	212	206	199	193	185	174
20	303	289	279	270	262	254	245	235	220
16	>365	>365	337	320	308	297	286	274	258

* 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: PELTON DAM, OR

COOP ID: 356532

Climate Division: OR 7

NWS Call Sign:

Elevation: 1,410 Feet Lat: 44° 44N Lon: 121° 15W

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	899	677	576	388	195	66	11	10	96	336	663	893	4810
60	744	537	421	250	93	20	1	1	36	195	514	738	3550
57	654	453	329	178	51	8	0	0	16	125	430	645	2889
55	597	401	270	137	31	3	0	0	9	88	375	584	2495
50	454	273	140	60	6	0	0	0	0	30	250	440	1653
32	97	20	0	0	0	0	0	0	0	0	20	75	212

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	221	268	447	605	851	1034	1272	1260	983	690	347	205	8183
55	8	4	4	52	169	348	559	547	302	64	13	1	2071
57	4	0	1	33	127	292	497	485	250	40	8	0	1737
60	0	0	0	15	76	214	404	393	179	17	2	0	1300
65	0	0	0	3	22	110	259	247	90	2	0	0	733
70	0	0	0	0	4	43	137	125	34	0	0	0	343

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	53	101	198	356	591	776	1005	990	720	431	138	57	53	154	352	708	1299	2075	3080	4070	4790	5221	5359	5416
45	14	34	87	217	436	626	850	835	570	285	60	21	14	48	135	352	788	1414	2264	3099	3669	3954	4014	4035
50	1	5	27	110	288	476	695	680	420	158	18	2	1	6	33	143	431	907	1602	2282	2702	2860	2878	2880
55	0	0	0	46	164	328	540	525	281	68	1	0	0	0	0	46	210	538	1078	1603	1884	1952	1953	1953
60	0	0	0	11	78	193	388	372	157	21	0	0	0	0	0	11	89	282	670	1042	1199	1220	1220	1220
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	39	77	174	283	409	495	581	580	476	330	91	37	39	116	290	573	982	1477	2058	2638	3114	3444	3535	3572

(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