

# Climatology of the United States

No. 20

1971-2000

Station: POTLATCH 3 NNE, ID

COOP ID: 107301

Climate Division: ID 2

NWS Call Sign:

Elevation: 2,600 Feet Lat: 46° 57N

Lon: 116° 53W

## 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	36.0	21.9	29.0	59	1920	28	36.8	1994	-36	1937	20	11.4	1979	1118	0	.0	.0	1.1	9.6	26.3	2.3
Feb	41.7	25.2	33.5	65+	1988	28	40.9	1991	-32	1996	2	21.6	1989	883	0	.0	.0	5.1	4.0	22.4	1.1
Mar	48.5	29.1	38.8	75+	1978	29	44.2	1992	-13	1955	5	33.4	1971	811	0	.0	.0	13.0	.4	22.7	.1
Apr	56.8	33.1	45.0	90	1946	25	50.6	1987	15+	1966	19	39.8	1975	603	0	.0	.0	22.6	.0	14.8	.0
May	64.8	37.9	51.4	95+	1993	12	57.0	1993	18	1954	1	46.8	1974	424	0	.0	.1	29.9	.0	7.0	.0
Jun	71.6	42.6	57.1	101	1924	30	61.0	1992	25+	1976	27	52.8	1976	242	5	.0	.4	29.9	.0	1.6	.0
Jul	80.4	44.7	62.6	104+	1960	18	69.1	1998	27	1977	7	57.4	1993	118	43	@	4.5	31.0	.0	.5	.0
Aug	81.9	43.7	62.8	110	1961	4	67.2	1971	25	1980	29	57.6	1980	122	54	@	6.3	31.0	.0	1.0	.0
Sep	72.8	37.3	55.1	101	1988	3	61.4	1998	14	1926	24	50.6	1971	309	10	@	1.1	29.8	.0	7.8	.0
Oct	59.8	31.2	45.5	90	1987	2	51.8	1988	9	1971	29	42.3	1984	605	0	.0	@	25.7	.1	17.7	.0
Nov	43.2	28.2	35.7	71	1917	2	43.0	1999	-20+	1985	23	21.9	1985	879	0	.0	.0	6.6	2.7	21.1	.4
Dec	36.1	22.3	29.2	65	1939	6	37.0	1979	-48	1968	30	17.8	1978	1109	0	.0	.0	1.1	9.5	26.0	1.7
Ann	57.8	33.1	45.5	110	Aug 1961	4	69.1	Jul 1998	-48	Dec 1968	30	11.4	Jan 1979	7223	112	@	12.4	226.8	26.3	168.9	5.6

+ 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](http://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: 1915-2001

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

081-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: POTLATCH 3 NNE, ID**

**COOP ID: 107301**

**Climate Division: ID 2**

**NWS Call Sign:**

**Elevation: 2,600 Feet Lat: 46°57N**

**Lon: 116°53W**

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	2.85	2.84	2.10	1964	6	5.91	1974	.25	1985	11.7	8.1	1.6	.2	.97	1.24	1.63	1.97	2.29	2.62	2.98	3.40	3.94	4.78	5.55
Feb	2.70	2.33	1.75	1948	26	6.23	1999	.81	1973	10.7	7.8	1.3	.2	.83	1.09	1.47	1.80	2.12	2.45	2.81	3.23	3.78	4.64	5.43
Mar	2.52	2.50	1.15	1916	25	5.20	2000	.42	1996	11.8	7.9	.9	.1	.83	1.07	1.42	1.72	2.01	2.31	2.63	3.01	3.50	4.26	4.96
Apr	2.26	2.20	1.26	1996	1	4.59	1996	.33	1973	9.8	6.6	1.2	.2	.62	.83	1.16	1.44	1.72	2.01	2.34	2.72	3.22	4.00	4.73
May	2.69	2.41	2.10	1959	1	7.25	1998	.75	1992	9.9	7.0	1.7	.3	1.07	1.32	1.67	1.96	2.24	2.52	2.82	3.17	3.61	4.29	4.91
Jun	1.78	1.49	2.55	1923	1	4.34	1971	.49	1986	8.1	5.2	.9	.1	.55	.72	.97	1.19	1.40	1.61	1.85	2.13	2.48	3.04	3.56
Jul	1.15	.91	2.10	1994	24	3.64	1993	.00	1985	5.3	3.4	.5	.1	.10	.24	.42	.59	.76	.95	1.16	1.42	1.76	2.32	2.85
Aug	1.13	.75	2.27+	1992	22	4.29	1989	.00	1994	4.2	2.8	.5	.2	.02	.09	.23	.39	.57	.78	1.04	1.37	1.83	2.61	3.39
Sep	1.29	1.42	2.00	1926	23	3.39	1985	.00+	1993	5.5	3.8	.5	.1	.00	.04	.20	.38	.59	.84	1.16	1.56	2.14	3.13	4.13
Oct	1.81	1.63	1.94	1994	27	4.56	1990	.00	1987	7.2	5.0	1.0	.2	.14	.33	.62	.88	1.16	1.46	1.81	2.23	2.80	3.73	4.62
Nov	3.25	3.10	1.56	1975	23	7.44	1973	.67	1976	12.5	9.0	1.7	.2	1.17	1.48	1.92	2.29	2.64	3.00	3.39	3.85	4.43	5.33	6.15
Dec	3.18	2.98	2.02	1966	13	7.26	1996	.51	1985	11.2	8.3	2.1	.3	.79	1.09	1.56	1.97	2.37	2.80	3.28	3.85	4.59	5.77	6.87
Ann	26.61	26.54	2.55	Jun 1923	1	7.44	Nov 1973	.00+	Aug 1994	107.9	74.9	13.9	2.2	19.59	20.97	22.72	24.05	25.22	26.35	27.51	28.79	30.34	32.58	34.50

+ 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: 1915-2001

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

Complete documentation available from:  
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Climate Division: ID 2

NWS Call Sign:

Elevation: 2,600 Feet

Lat: 46° 57N

Lon: 116° 53W

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	14.0	13.3	4	2	13.0	1982	23	35.0	1996	30	1996	28	17	1989	4.8	4.4	2.0	1.0	@	-9.9	-9.9	-9.9	-9.9
Feb	7.9	5.5	2	0	9.0	1975	7	25.5	1985	23	1985	9	21	1985	3.0	2.6	1.1	.4	.0	-9.9	-9.9	-9.9	-9.9
Mar	3.9	2.8	#	0	6.0	1971	13	12.0+	1976	4	1971	15	#+	1999	1.9	1.3	.5	.1	.0	.3	.0	.0	.0
Apr	1.0	.0	#	0	4.0	1979	2	5.0	1982	3	1999	4	#+	1999	.5	.4	.1	.0	.0	.0	.0	.0	.0
May	.3	.0	#	0	2.0	1971	17	2.0+	2000	#	1999	4	#	1999	.1	.1	.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	.4	.0	#	0	5.0	1972	28	6.5	1972	5	1972	28	#+	1997	.2	.1	.1	@	.0	.3	.1	.1	.0
Nov	5.0	1.5	1	0	9.0	1975	30	29.0	1973	10	1973	25	5	1979	2.2	1.9	.5	.2	.0	-9.9	-9.9	-9.9	-9.9
Dec	11.9	9.0	3	2	8.0	1982	13	34.0	1984	22	1996	29	12+	1988	4.0	3.8	1.5	.5	.0	-9.9	-9.9	-9.9	-9.9
Ann	44.4	32.1	N/A	N/A	13.0	Jan 1982	23	35.0	Jan 1996	30	Jan 1996	28	21	Feb 1985	16.7	14.6	5.8	2.2	@	-9.9	-9.9	-9.9	-9.9

+ 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	8/03	7/27	7/22	7/17	7/13	7/09	7/05	6/29	6/22
32	7/12	7/02	6/24	6/18	6/13	6/07	6/01	5/25	5/15
28	6/11	6/02	5/26	5/20	5/15	5/10	5/04	4/28	4/18
24	5/08	4/28	4/22	4/16	4/10	4/05	3/30	3/23	3/14
20	4/14	4/04	3/28	3/21	3/16	3/10	3/04	2/25	2/15
16	3/23	3/11	3/02	2/22	2/15	2/08	1/31	1/22	1/10
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	8/03	8/08	8/12	8/15	8/18	8/21	8/24	8/27	9/01
32	8/16	8/21	8/25	8/28	8/31	9/03	9/07	9/11	9/16
28	8/30	9/04	9/08	9/11	9/14	9/17	9/20	9/24	9/29
24	9/13	9/19	9/24	9/28	10/01	10/05	10/09	10/13	10/19
20	9/20	9/29	10/05	10/10	10/15	10/20	10/25	10/31	11/09
16	10/11	10/22	10/30	11/06	11/13	11/20	11/27	12/05	12/16
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	63	53	46	41	35	29	23	16	7
32	113	101	93	86	79	72	65	57	45
28	154	143	135	128	121	114	107	99	87
24	208	196	187	180	173	166	159	150	138
20	256	241	230	221	213	204	195	184	169
16	320	301	288	277	268	258	248	236	220

\* 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](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

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**Elevation: 2,600 Feet Lat: 46° 57N**

**Lon: 116° 53W**

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	1118	883	811	603	424	242	118	122	309	605	879	1109	7223
60	963	743	656	453	274	119	41	47	185	450	729	954	5614
57	870	659	563	364	193	66	16	21	124	358	639	861	4734
55	808	603	501	307	145	40	8	12	90	297	582	799	4192
50	663	471	352	176	59	7	0	2	32	160	443	652	3017
32	224	107	22	1	0	0	0	0	0	1	91	209	655

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	129	148	234	388	599	752	948	955	691	419	202	123	5588
55	0	0	0	4	32	102	242	254	92	2	3	0	731
57	0	0	0	1	17	68	188	202	65	1	0	0	542
60	0	0	0	0	6	31	120	134	36	0	0	0	327
65	0	0	0	0	0	5	43	54	10	0	0	0	112
70	0	0	0	0	0	0	9	13	2	0	0	0	24

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	2	25	59	172	357	517	708	712	451	196	42	7	2	27	86	258	615	1132	1840	2552	3003	3199	3241	3248
45	0	1	16	76	220	369	553	557	307	94	10	0	0	1	17	93	313	682	1235	1792	2099	2193	2203	2203
50	0	0	0	26	106	227	398	403	182	30	0	0	0	0	0	26	132	359	757	1160	1342	1372	1372	1372
55	0	0	0	5	41	109	248	252	82	8	0	0	0	0	0	5	46	155	403	655	737	745	745	745
60	0	0	0	0	7	38	119	130	24	1	0	0	0	0	0	0	7	45	164	294	318	319	319	319
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	10	44	119	241	329	468	484	342	168	14	0	0	10	54	173	414	743	1211	1695	2037	2205	2219	2219

(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](http://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](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)