

Climatology of the United States

No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: PIERCE, ID

1971-2000

COOP ID: 107046

Climate Division: ID 4

NWS Call Sign:

Elevation: 3,080 Feet Lat: 46° 30N

Lon: 115° 48W

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	33.2	16.7	25.0	51	1974	16	32.4	1981	-29+	1979	2	12.6	1979	1241	0	.0	.0	@	11.3	30.6	3.7
Feb	37.9	18.4	28.2	58	1981	24	33.7	1992	-22+	1989	4	20.2	1989	1032	0	.0	.0	1.2	4.3	27.9	2.1
Mar	45.6	23.0	34.3	75	1978	30	41.6	1992	-10	1989	4	29.1	1971	951	0	.0	.0	9.0	.3	30.0	.4
Apr	54.3	28.5	41.4	88+	1987	28	47.6	1987	13	1999	1	35.2	1975	708	0	.0	.0	19.1	@	24.5	.0
May	64.0	35.1	49.6	94	1986	30	54.5	1993	21+	1999	11	45.7	1996	480	0	.0	.2	27.9	.0	11.8	.0
Jun	71.7	40.7	56.2	96	1978	29	61.7	1986	28+	1984	1	52.1	1976	269	6	.0	1.3	29.5	.0	2.2	.0
Jul	81.4	43.4	62.4	101	1967	13	69.2	1998	29+	1999	6	55.3	1993	137	57	.2	5.4	31.0	.0	.7	.0
Aug	82.6	41.2	61.9	100+	1998	6	65.9	1971	25	1992	25	57.9	1980	137	41	.1	5.7	31.0	.0	1.8	.0
Sep	72.3	33.8	53.1	99+	1988	4	59.2	1998	10	1985	29	47.9	1971	363	5	.0	1.1	29.5	.0	13.2	.0
Oct	59.0	27.2	43.1	87	1987	3	47.9	1988	3	1971	29	39.5	1985	679	0	.0	.0	23.4	.2	25.3	.0
Nov	40.5	23.9	32.2	69	1975	5	38.5	1999	-18	1985	23	22.6	1985	985	0	.0	.0	4.0	3.3	27.5	.3
Dec	33.0	17.6	25.3	46	1995	1	30.3	1979	-33	1968	30	17.0	1985	1230	0	.0	.0	.0	11.4	30.5	2.2
Ann	56.3	29.1	42.7	101	Jul 1967	13	69.2	Jul 1998	-33	Dec 1968	30	12.6	Jan 1979	8212	109	.3	13.7	205.6	30.8	226.0	8.7

+ 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: 1963-2001

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

078-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: PIERCE, ID

COOP ID: 107046

Climate Division: ID 4

NWS Call Sign:

Elevation: 3,080 Feet Lat: 46°30N

Lon: 115°48W

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	5.44	4.87	6.28	1999	6	10.95	1999	.98	1985	16.6	11.9	3.2	.8	1.73	2.25	3.01	3.66	4.29	4.94	5.66	6.50	7.58	9.26	10.82
Feb	4.29	4.08	2.97	1982	19	8.59	1972	1.29	1977	13.7	10.6	2.6	.6	1.42	1.83	2.43	2.93	3.42	3.93	4.48	5.12	5.95	7.24	8.42
Mar	3.92	4.16	2.15	1999	1	7.13	1989	.54	1992	14.5	10.8	2.1	.1	1.40	1.77	2.30	2.75	3.18	3.62	4.09	4.65	5.35	6.45	7.45
Apr	3.39	3.22	1.92	1996	24	7.23	1996	.74	1977	12.9	8.9	1.7	.2	1.38	1.69	2.13	2.49	2.83	3.18	3.55	3.98	4.53	5.36	6.12
May	3.86	3.93	2.19	1985	30	7.05	1998	1.82	1982	13.0	8.8	2.2	.4	1.67	2.02	2.50	2.90	3.27	3.64	4.04	4.50	5.09	5.97	6.77
Jun	2.86	2.56	2.01	2001	4	7.29	1981	.57+	1996	10.5	6.6	1.6	.3	.75	1.02	1.43	1.79	2.15	2.53	2.95	3.45	4.10	5.12	6.08
Jul	1.80	1.23	2.30	1997	1	6.23	1997	.00+	1984	6.7	4.0	.9	.3	.00	.12	.40	.68	.98	1.32	1.73	2.23	2.92	4.08	5.22
Aug	1.39	1.05	2.05	1975	24	4.74	1975	.12	1973	5.8	3.4	.8	.1	.11	.20	.38	.57	.78	1.02	1.31	1.68	2.19	3.05	3.90
Sep	2.00	1.84	1.58	1997	16	6.04	1985	.02	1990	7.1	4.5	1.2	.2	.15	.28	.53	.81	1.11	1.47	1.89	2.43	3.17	4.42	5.66
Oct	2.95	2.81	3.32	2000	1	6.96	1977	.00	1987	9.3	6.5	1.7	.3	.24	.56	1.04	1.48	1.92	2.41	2.97	3.64	4.55	6.03	7.45
Nov	5.29	4.88	2.06	1994	1	10.45	1973	1.43	1976	15.0	11.4	3.1	.5	1.76	2.26	2.99	3.62	4.22	4.84	5.51	6.30	7.32	8.89	10.35
Dec	5.13	4.73	2.30	1977	2	11.00	1977	1.11	1985	15.9	11.6	2.8	.4	1.70	2.19	2.90	3.51	4.09	4.69	5.35	6.12	7.11	8.64	10.05
Ann	42.32	42.59	6.28	Jan 1999	6	11.00	Dec 1977	.00+	Oct 1987	141.0	99.0	23.9	4.2	31.33	33.48	36.23	38.30	40.13	41.90	43.71	45.71	48.12	51.61	54.61

+ 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: 1963-2001

(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: PIERCE, ID

COOP ID: 107046

Climate Division: ID 4

NWS Call Sign:

Elevation: 3,080 Feet

Lat: 46° 30N

Lon: 115° 48W

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	35.1	33.5	25	23	13.0	1996	29	70.0	1989	60	1972	11	53	1972	10.3	8.9	4.5	2.0	.4	-9.9	-9.9	-9.9	-9.9
Feb	23.0	21.5	28	29	12.0	1981	12	40.4	1972	71	1972	25	60	1972	6.8	6.2	2.8	1.1	.1	-9.9	-9.9	-9.9	-9.9
Mar	13.1	13.0	23	19	8.0	1997	11	29.0	1989	73	1972	4	59	1972	4.9	4.2	1.2	.3	.0	-9.9	-9.9	-9.9	-9.9
Apr	4.2	2.3	8	2	12.5	1971	24	17.1	1971	53	1976	2	39	1972	2.2	1.6	.3	.1	@	7.2	4.9	4.2	3.1
May	.3	.0	#	0	4.5	1971	17	4.5+	1971	22	1972	1	4	1972	.3	.2	@	.0	.0	.5	.4	.3	.2
Jun	#	.0	#	0	#	1995	6	#	1995	#	1995	6	#	1995	.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	#	1972	25	#	1972	2	1984	23	#	1984	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.6	.0	#	0	3.5	1971	27	6.5	1971	5	1984	30	1	1984	.5	.3	.1	.0	.0	.6	.2	@	.0
Nov	12.6	13.3	3	3	9.0	1996	19	30.3	1988	24	1994	30	10	1975	5.4	4.7	1.6	.6	.0	13.8	9.2	5.4	2.1
Dec	33.4	22.9	13	11	13.2	1984	30	94.0	1971	55	1971	16	39	1971	10.0	8.2	3.9	1.5	.3	-9.9	-9.9	-9.9	-9.9
Ann	122.3	106.5	N/A	N/A	13.2	Dec 1984	30	94.0	Dec 1971	73	Mar 1972	4	60	Feb 1972	40.4	34.3	14.4	5.6	.8	-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

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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

Station: PIERCE, ID

COOP ID: 107046

Climate Division: ID 4

NWS Call Sign:

Elevation: 3,080 Feet

Lat: 46°30N

Lon: 115°48W

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	7/31	7/25	7/20	7/16	7/12	7/09	7/05	6/30	6/23
32	7/17	7/08	7/02	6/27	6/22	6/17	6/12	6/06	5/28
28	6/11	6/02	5/27	5/22	5/16	5/11	5/06	4/30	4/21
24	5/13	5/06	5/02	4/27	4/24	4/20	4/16	4/11	4/04
20	4/15	4/09	4/05	4/02	3/29	3/26	3/22	3/18	3/12
16	4/09	3/31	3/25	3/20	3/15	3/10	3/04	2/26	2/17
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	8/02	8/08	8/11	8/14	8/17	8/20	8/24	8/27	9/02
32	8/15	8/20	8/24	8/27	8/30	9/02	9/05	9/09	9/14
28	8/30	9/05	9/09	9/12	9/15	9/18	9/21	9/25	10/01
24	9/19	9/24	9/27	9/30	10/03	10/06	10/09	10/13	10/18
20	9/28	10/06	10/13	10/18	10/23	10/28	11/02	11/08	11/17
16	10/17	10/26	11/01	11/07	11/12	11/17	11/22	11/28	12/07
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	57	50	44	40	35	31	27	21	14
32	96	87	80	74	68	62	56	50	40
28	153	142	134	127	121	114	108	100	89
24	187	178	172	167	162	157	152	146	137
20	234	225	218	212	207	202	196	189	180
16	278	265	256	248	241	234	226	217	204

* 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: PIERCE, ID

COOP ID: 107046

Climate Division: ID 4

NWS Call Sign:

Elevation: 3,080 Feet Lat: 46° 30N Lon: 115° 48W

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	1241	1032	951	708	480	269	137	137	363	679	985	1230	8212
60	1086	892	796	558	329	144	59	55	230	524	835	1075	6583
57	993	808	703	468	245	87	28	25	163	432	745	982	5679
55	931	752	641	410	194	58	17	14	125	371	685	920	5118
50	776	612	486	270	94	14	3	2	53	225	535	765	3835
32	268	159	61	9	0	0	0	0	0	3	104	245	849

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	50	51	133	291	543	727	943	927	632	346	109	37	4789
55	0	0	0	2	24	95	246	228	67	1	0	0	663
57	0	0	0	0	13	64	196	177	45	0	0	0	495
60	0	0	0	0	4	31	133	114	22	0	0	0	304
65	0	0	0	0	0	6	57	41	5	0	0	0	109
70	0	0	0	0	0	0	16	9	0	0	0	0	25

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	0	0	12	110	310	489	696	679	394	139	9	0	0	0	12	122	432	921	1617	2296	2690	2829	2838	2838
45	0	0	0	44	180	341	541	525	254	54	0	0	0	0	0	44	224	565	1106	1631	1885	1939	1939	1939
50	0	0	0	12	87	208	387	370	141	14	0	0	0	0	0	12	99	307	694	1064	1205	1219	1219	1219
55	0	0	0	1	37	106	242	226	60	0	0	0	0	0	0	1	38	144	386	612	672	672	672	672
60	0	0	0	0	6	45	122	109	14	0	0	0	0	0	0	0	6	51	173	282	296	296	296	296
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	2	30	106	236	328	465	473	325	150	10	0	0	2	32	138	374	702	1167	1640	1965	2115	2125	2125

(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