

Climatography of the United States

No. 20

1971-2000

Station: PORTHILL, ID

COOP ID: 107264

Climate Division: ID 1

NWS Call Sign:

Elevation: 1,775 Feet Lat: 49°00N

Lon: 116°30W

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	33.3	17.8	25.6	53+	1989	31	34.0	1994	-31	1950	30	12.4	1979	1224	0	.0	.0	.3	12.9	29.2	3.1
Feb	38.8	21.5	30.2	57	1988	21	36.7	1991	-29	1950	1	19.8	1989	976	0	.0	.0	1.4	5.7	26.0	1.6
Mar	48.5	27.2	37.9	68+	1986	27	42.3	1992	-17	1955	5	32.0	1976	842	0	.0	.0	13.2	.5	24.6	.2
Apr	59.3	33.6	46.5	84	1977	25	50.4	1987	15+	1975	1	42.4	1975	556	0	.0	.0	26.7	.0	13.4	.0
May	68.1	41.1	54.6	95	2001	24	60.4	1993	17	1954	1	49.9	1984	328	5	.0	.3	30.9	.0	1.8	.0
Jun	74.5	47.3	60.9	97	1992	25	66.2	1992	28	1998	4	55.8	1981	156	33	.0	1.4	29.9	.0	.1	.0
Jul	81.6	51.0	66.3	100+	1985	21	72.6	1985	35	1962	4	59.9	1993	71	111	.1	6.1	31.0	.0	.0	.0
Aug	81.8	49.0	65.4	101	1998	6	69.9	1971	32	1962	27	59.9	1980	84	97	@	6.1	31.0	.0	.0	.0
Sep	71.2	40.4	55.8	97	1998	4	61.6	1998	24+	1984	27	51.5	1985	289	12	.0	.5	29.9	.0	3.0	.0
Oct	56.7	32.0	44.4	80+	1952	11	48.2	1988	11	1991	28	42.2	1972	640	0	.0	.0	25.4	.1	16.8	.0
Nov	41.6	26.3	34.0	67	1978	7	39.9	1999	-18	1959	16	21.9	1985	932	0	.0	.0	4.1	3.7	22.5	.5
Dec	33.8	19.3	26.6	59	1980	27	34.3	1979	-37	1968	30	16.9	1983	1192	0	.0	.0	.6	13.0	29.1	1.9
Ann	57.4	33.9	45.7	101	Aug 1998	6	72.6	Jul 1985	-37	Dec 1968	30	12.4	Jan 1979	7290	258	.1	14.4	224.4	35.9	166.5	7.3

+ 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: 1948-2001

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

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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: PORTHILL, ID

COOP ID: 107264

Climate Division: ID 1

NWS Call Sign:

Elevation: 1,775 Feet Lat: 49°00N

Lon: 116°30W

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	2.13	2.24	1.12	1983	9	4.84	1974	.25	1985	11.0	7.1	1.0	@	.63	.83	1.13	1.40	1.65	1.92	2.21	2.55	3.00	3.70	4.35
Feb	1.69	1.68	1.23	1956	21	3.73	1979	.27	1987	9.5	5.7	.6	.1	.50	.66	.90	1.11	1.31	1.52	1.76	2.03	2.39	2.95	3.46
Mar	1.52	1.35	1.12	1964	5	3.29	1997	.37	1981	10.0	5.3	.5	@	.46	.61	.82	1.01	1.19	1.38	1.58	1.82	2.13	2.62	3.07
Apr	1.43	1.47	.95	1996	24	2.27	1997	.32	1977	9.8	4.7	.4	.0	.64	.76	.94	1.09	1.22	1.36	1.50	1.67	1.88	2.20	2.49
May	1.92	1.56	1.97	1998	27	6.63	1998	.67	1985	11.5	6.4	.7	.1	.47	.65	.93	1.18	1.42	1.68	1.98	2.32	2.78	3.50	4.18
Jun	1.85	1.74	1.49	1958	10	4.64	1981	.28	1973	11.5	6.0	.7	.0	.67	.85	1.10	1.31	1.51	1.71	1.94	2.19	2.53	3.04	3.50
Jul	1.34	1.39	.90	2000	9	3.28	1986	.12	1973	7.8	4.2	.5	.0	.22	.34	.53	.72	.91	1.11	1.35	1.64	2.02	2.64	3.23
Aug	1.21	1.06	1.50	1951	30	2.91	1989	.04	1994	6.9	4.0	.5	.0	.20	.31	.49	.65	.82	1.01	1.22	1.48	1.82	2.38	2.92
Sep	1.24	1.13	1.10	1959	14	3.64	1986	.02	1990	7.8	4.0	.4	.0	.15	.25	.43	.60	.78	.99	1.23	1.52	1.92	2.57	3.20
Oct	1.41	1.21	.97	1950	30	3.47	1975	.04	1974	9.5	4.9	.4	.0	.20	.32	.52	.72	.92	1.15	1.41	1.72	2.15	2.84	3.51
Nov	2.76	2.50	1.60	1960	20	5.81	1973	.46	1979	13.5	8.4	1.3	.2	.69	.95	1.35	1.71	2.06	2.43	2.85	3.34	3.98	5.00	5.95
Dec	2.41	2.60	1.20	1956	9	5.08	1996	.42	1978	12.0	7.4	1.1	.2	.70	.93	1.27	1.57	1.86	2.17	2.50	2.90	3.41	4.21	4.95
Ann	20.91	20.02	1.97	May 1998	27	6.63	May 1998	.02	Sep 1990	120.8	68.1	8.1	.6	14.56	15.78	17.35	18.55	19.61	20.64	21.71	22.89	24.33	26.42	28.23

+ 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: 1948-2001

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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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No. 20 1971-2000

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
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Station: PORTHILL, ID

COOP ID: 107264

Climate Division: ID 1

NWS Call Sign:

Elevation: 1,775 Feet

Lat: 49°00N

Lon: 116°30W

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	12.0	9.5	6	5	9.0	1972	11	26.1	1971	28	1997	1	18	1997	5.7	4.9	1.8	.6	.0	12.4	8.8	7.4	3.0
Feb	5.8	5.1	4	2	10.0	1986	15	18.5	1975	30	1975	12	19	1975	2.6	2.3	.7	.2	.1	8.5	3.8	2.7	1.1
Mar	2.1	1.0	#	#	7.0	1996	3	10.0	1996	17	1975	1	5	1975	1.1	.9	.3	.1	.0	1.5	.6	.3	.0
Apr	.3	.0	#	0	3.0	1982	2	4.0+	2000	5	2000	15	#+	2000	.2	.2	.1	.0	.0	.1	@	.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	.2	.0	#	0	3.0	1996	18	4.0	1996	1	1984	31	#	1984	.2	.2	@	.0	.0	.1	.0	.0	.0
Nov	8.0	5.3	1	#	8.0	1986	18	26.8	1996	22	1996	23	8	1996	2.3	2.0	1.0	.4	.0	3.7	2.4	1.5	.3
Dec	12.5	12.0	4	2	13.0	1979	1	23.0	1977	35	1996	30	21	1996	4.5	3.8	1.6	.5	.1	11.1	4.9	3.4	.7
Ann	40.9	32.9	N/A	N/A	13.0	Dec 1979	1	26.8	Nov 1996	35	Dec 1996	30	21	Dec 1996	16.6	14.3	5.5	1.8	.2	37.4	20.5	15.3	5.1

+ 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:

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Climate Division: ID 1

NWS Call Sign:

Elevation: 1,775 Feet

Lat: 49°00N

Lon: 116°30W

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	6/13	6/07	6/03	5/30	5/27	5/23	5/20	5/16	5/10
32	5/27	5/21	5/17	5/14	5/11	5/07	5/04	4/30	4/25
28	5/11	5/05	5/01	4/27	4/23	4/20	4/16	4/11	4/05
24	4/24	4/17	4/11	4/07	4/03	3/29	3/25	3/19	3/12
20	4/06	3/29	3/23	3/18	3/13	3/08	3/03	2/25	2/16
16	3/23	3/13	3/06	2/28	2/22	2/17	2/11	2/04	1/25
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	8/30	9/03	9/07	9/09	9/12	9/14	9/17	9/20	9/25
32	9/11	9/15	9/18	9/21	9/24	9/26	9/29	10/02	10/06
28	9/22	9/27	9/30	10/03	10/06	10/08	10/11	10/15	10/19
24	10/04	10/10	10/14	10/18	10/21	10/25	10/29	11/02	11/08
20	10/26	11/01	11/06	11/09	11/13	11/16	11/20	11/24	11/30
16	10/31	11/09	11/16	11/21	11/27	12/02	12/08	12/14	12/24
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	128	121	116	111	107	103	99	94	87
32	154	148	143	139	135	131	127	123	116
28	188	180	174	169	165	160	155	149	141
24	225	217	211	206	201	196	191	185	177
20	275	264	257	250	244	238	232	224	213
16	320	305	294	285	277	268	259	248	233

* 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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Elevation: 1,775 Feet Lat: 49°00N Lon: 116°30W

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	1224	976	842	556	328	156	71	84	289	640	932	1192	7290
60	1069	836	687	406	194	69	21	28	168	485	782	1037	5782
57	976	752	594	318	129	34	9	12	109	392	692	944	4961
55	914	696	532	260	93	20	4	6	77	331	632	882	4447
50	759	556	379	134	31	3	0	0	24	184	486	727	3283
32	275	142	32	0	0	0	0	0	0	1	96	235	781

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	74	90	213	434	700	867	1063	1036	714	384	154	67	5796
55	0	0	0	4	81	197	354	328	101	1	0	0	1066
57	0	0	0	2	54	152	297	273	73	0	0	0	851
60	0	0	0	0	26	96	216	195	42	0	0	0	575
65	0	0	0	0	5	33	111	97	12	0	0	0	258
70	0	0	0	0	0	7	41	33	3	0	0	0	84

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	39	207	455	631	820	794	478	163	22	0	0	0	39	246	701	1332	2152	2946	3424	3587	3609	3609
45	0	0	2	95	304	481	665	639	329	66	2	0	0	0	2	97	401	882	1547	2186	2515	2581	2583	2583
50	0	0	0	30	172	333	510	484	193	20	0	0	0	0	0	30	202	535	1045	1529	1722	1742	1742	1742
55	0	0	0	7	81	200	357	332	91	1	0	0	0	0	0	7	88	288	645	977	1068	1069	1069	1069
60	0	0	0	0	31	95	215	199	27	0	0	0	0	0	0	0	31	126	341	540	567	567	567	567
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	34	150	282	383	505	497	324	122	4	0	0	0	34	184	466	849	1354	1851	2175	2297	2301	2301

(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