

Climatology of the United States

No. 20

1971-2000

Station: POCATELLO RGNL AP, ID

COOP ID: 107211

Climate Division: ID 9

NWS Call Sign: PIH

Elevation: 4,440 Feet Lat: 42° 55N

Lon: 112° 34W

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	32.5	16.3	24.4	57	1974	16	33.1	1998	-31	1949	25	11.3	1979	1274	0	.0	.0	1.1	14.3	28.6	5.2
Feb	39.0	20.9	30.0	65	1992	29	38.8	1992	-33	1985	1	19.0	1985	996	0	.0	.0	4.3	6.9	24.7	1.9
Mar	48.5	27.3	37.9	75+	1994	15	44.7	1992	-12	1985	4	27.8	1985	842	0	.0	.0	13.7	1.3	24.0	.2
Apr	58.5	32.6	45.6	86+	1994	21	51.6	1992	12	1945	3	39.1	1975	584	0	.0	.0	23.9	.0	14.4	.0
May	67.7	39.2	53.5	93	1954	19	60.2	1992	20	1972	1	50.0	1975	353	3	.0	@	29.5	.0	3.5	.0
Jun	78.3	45.7	62.0	103+	1988	25	69.4	1988	28	1995	7	57.4	1993	129	51	.1	4.0	29.9	.0	.3	.0
Jul	87.5	50.9	69.2	104	2000	22	73.1	1988	34	1981	8	60.9	1993	21	167	.5	13.9	31.0	.0	.0	.0
Aug	86.8	49.9	68.4	104+	1990	8	72.3	1991	30	1992	25	64.4	1993	26	143	.3	13.2	31.0	.0	.1	.0
Sep	75.7	41.8	58.8	98	1976	5	65.8	1990	19+	1985	30	51.6	1971	201	23	.0	2.4	29.7	.0	3.4	.0
Oct	62.0	33.3	47.7	91	1992	1	55.6	1988	10	1971	29	42.2	1971	536	0	.0	@	26.5	.2	14.0	.0
Nov	44.5	24.9	34.7	75	1999	6	42.2	1995	-14	1993	26	25.8	2000	907	0	.0	.0	9.6	4.3	23.8	.9
Dec	33.8	16.8	25.3	64	1995	1	32.9	1977	-29	1990	23	11.9	1985	1240	0	.0	.0	1.5	12.4	28.4	3.3
Ann	59.6	33.3	46.5	104+	Jul 2000	22	73.1	Jul 1988	-33	Feb 1985	1	11.3	Jan 1979	7109	387	.9	33.5	231.7	39.4	165.2	11.5

+ 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: 1939-2001

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

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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	Median	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	1.14	1.07	.93	1970	27	3.24	1980	.21	1992	12.7	4.3	.2	.0	.32	.43	.59	.74	.87	1.02	1.18	1.37	1.61	2.00	2.36
Feb	1.01	.98	.66	1983	13	2.63	1986	.13	1997	10.4	3.4	.1	.0	.21	.31	.45	.59	.72	.87	1.03	1.23	1.48	1.90	2.29
Mar	1.38	1.30	4.31	1941	23	2.95	1983	.11	1994	10.4	4.4	.5	.0	.34	.47	.67	.85	1.02	1.21	1.42	1.67	1.99	2.51	2.99
Apr	1.18	1.04	.87	1963	27	2.82	1976	.06	1977	8.8	4.1	.4	.0	.22	.32	.50	.66	.82	.99	1.19	1.43	1.75	2.27	2.76
May	1.51	1.47	1.29	1970	21	3.29	1980	.25	1992	10.2	4.5	.7	@	.32	.46	.68	.88	1.08	1.30	1.54	1.83	2.21	2.82	3.40
Jun	.91	.81	1.05	1948	21	3.30	1995	.02	1974	6.4	2.5	.4	.0	.08	.14	.27	.39	.53	.69	.87	1.11	1.43	1.97	2.49
Jul	.70	.57	.98	1965	19	2.28	1984	.00	1988	4.6	2.0	.3	.0	.02	.07	.17	.27	.38	.51	.66	.85	1.12	1.57	2.01
Aug	.66	.51	.96	1968	17	2.02	1982	.00	1998	4.8	1.9	.4	.0	.02	.06	.15	.24	.35	.47	.61	.80	1.06	1.49	1.93
Sep	.89	.58	1.46	1942	12	3.43	1982	.00	1987	5.4	2.6	.4	.1	.01	.04	.14	.25	.39	.56	.78	1.06	1.47	2.18	2.91
Oct	.97	.94	1.68	1976	2	2.54	1975	.00	1988	5.8	3.0	.3	.1	.08	.18	.34	.48	.63	.79	.97	1.20	1.50	1.99	2.46
Nov	1.13	1.02	.82+	1995	26	2.84	1983	.01	1976	9.9	3.9	.2	.0	.16	.26	.42	.58	.74	.92	1.13	1.39	1.73	2.29	2.83
Dec	1.10	.89	.91	1982	1	3.39	1983	.07	1989	10.6	3.5	.2	.0	.13	.22	.37	.52	.69	.87	1.08	1.34	1.70	2.29	2.86
Ann	12.58	12.69	4.31	Mar 1941	23	3.43	Sep 1982	.00+	Aug 1998	100.0	40.1	4.1	.2	7.75	8.63	9.79	10.69	11.50	12.29	13.12	14.04	15.18	16.85	18.32

+ 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: 1939-2001

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

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Lon: 112° 34W

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	9.4	8.4	2	2	6.6	1993	11	29.6	1993	17+	1993	14	10	1982	10.8	3.2	.6	.1	.0	16.4	9.5	5.7	1.1
Feb	7.0	5.9	1	1	5.7	1984	10	21.3	1993	13	1984	18	8	1984	7.8	2.6	.4	.1	.0	10.1	5.0	3.1	.8
Mar	6.0	5.9	#	1	8.2	1985	2	16.6	1985	10+	1993	3	3+	1993	5.9	2.0	.4	.1	.0	4.3	1.9	1.0	.1
Apr	3.6	1.5	#	0	7.4	1976	26	15.5	1976	13	1976	27	1	1976	3.0	1.0	.4	.1	.0	.9	.2	.1	@
May	.8	.0	#	0	5.2	1983	11	5.5	1983	3	1975	5	#	2000	.8	.2	.1	@	.0	.2	@	.0	.0
Jun	.0	.0	#	0	.4	1995	5	.4	1995	#	1995	19	#	1999	.1	.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	1.0	1983	19	1.0	1983	#	2000	23	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	2.4	.5	#	0	8.0	1980	15	12.6	1971	8	1997	24	#	1997	1.3	.6	.3	.2	.0	.6	.1	.1	.0
Nov	6.4	4.4	1	0	6.9	1992	20	27.5	1985	10+	1985	30	4	1985	6.1	2.1	.6	.1	.0	5.8	2.3	1.1	.1
Dec	9.8	7.5	2	1	10.8	1988	25	33.7	1983	14+	1990	27	7	1985	9.5	3.1	.7	.2	@	13.4	6.6	3.9	.8
Ann	45.4	34.1	N/A	N/A	10.8	Dec 1988	25	33.7	Dec 1983	17+	Jan 1993	14	10	Jan 1982	45.3	14.8	3.5	.9	@	51.7	25.6	15.0	2.9

+ 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	7/02	6/25	6/21	6/17	6/13	6/09	6/06	6/01	5/26
32	6/11	6/05	5/31	5/27	5/23	5/19	5/15	5/10	5/03
28	5/24	5/17	5/13	5/09	5/05	5/01	4/27	4/23	4/16
24	5/01	4/24	4/20	4/16	4/12	4/09	4/05	4/01	3/25
20	4/21	4/13	4/07	4/02	3/28	3/23	3/18	3/12	3/04
16	3/31	3/23	3/17	3/13	3/08	3/03	2/27	2/21	2/13
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	8/21	8/27	8/31	9/04	9/08	9/11	9/15	9/19	9/25
32	9/04	9/08	9/12	9/15	9/17	9/20	9/23	9/26	10/01
28	9/15	9/21	9/25	9/28	10/01	10/04	10/08	10/12	10/17
24	9/24	9/30	10/05	10/09	10/13	10/16	10/20	10/25	10/31
20	10/09	10/15	10/20	10/24	10/27	10/31	11/04	11/08	11/15
16	10/24	10/30	11/03	11/06	11/10	11/13	11/16	11/21	11/26
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	109	101	95	90	86	81	76	71	63
32	140	132	126	121	117	112	107	102	94
28	173	164	158	153	148	144	138	132	124
24	209	200	193	188	183	177	172	165	156
20	243	232	225	218	213	207	200	193	182
16	277	266	259	252	246	240	233	226	215

* 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

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Degree Days to Selected Base Temperatures (°F)

Base	Heating Degree Days (1)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Below													
65	1274	996	842	584	353	129	21	26	201	536	907	1240	7109
60	1103	842	685	438	224	68	8	8	122	386	760	1075	5719
57	1010	758	592	354	156	36	2	3	78	299	670	982	4940
55	948	702	531	301	118	22	1	1	55	245	610	920	4454
50	798	570	388	184	48	5	0	0	18	132	469	765	3377
32	324	181	50	6	0	0	0	0	0	2	98	287	948

Cooling Degree Days (1)

Base	Cooling Degree Days (1)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Above													
32	39	81	212	411	676	913	1170	1143	813	491	156	45	6150
55	0	0	0	13	76	241	457	431	168	20	0	0	1406
57	0	0	0	8	52	193	396	370	127	10	0	0	1156
60	0	0	0	3	25	128	306	281	76	3	0	0	822
65	0	0	0	0	3	51	167	143	23	0	0	0	387
70	0	0	0	0	0	13	59	46	4	0	0	0	122

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	1	11	59	200	438	682	929	902	581	272	45	3	1	12	71	271	709	1391	2320	3222	3803	4075	4120	4123
45	0	0	18	102	293	532	774	747	435	154	14	0	0	0	18	120	413	945	1719	2466	2901	3055	3069	3069
50	0	0	0	44	170	384	619	592	298	68	0	0	0	0	0	44	214	598	1217	1809	2107	2175	2175	2175
55	0	0	0	16	79	246	464	437	178	21	0	0	0	0	0	16	95	341	805	1242	1420	1441	1441	1441
60	0	0	0	1	28	134	317	288	80	2	0	0	0	0	0	1	29	163	480	768	848	850	850	850
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	9	53	147	287	432	585	570	397	209	35	0	0	9	62	209	496	928	1513	2083	2480	2689	2724	2724

(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:

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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 are 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.

- a. Temperature/ Precipitation Tables
 1. 1971-2000 Monthly Normals
 2. Cooperative Summary of the Day
 3. National Weather Service station records
 4. 1971-2000 serially complete daily data
- b. Degree Day Table
 1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
 2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data
- c. Snow Tables
 1. Snow Climatology
 2. Cooperative Summary of the Day
- d. 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