

Climatography of the United States

No. 20

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

Station: PRIEST RIVER EXP STN, ID

1971-2000

COOP ID: 107386

Climate Division: ID 1

NWS Call Sign:

Elevation: 2,380 Feet Lat: 48° 21N

Lon: 116° 50W

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	30.4	18.7	24.6	49+	1983	8	31.8	1994	-33	1950	30	9.8	1979	1254	0	.0	.0	.0	16.7	29.7	2.6
Feb	36.1	21.3	28.7	57	1947	23	34.5	1991	-35	1933	9	19.2	1989	1017	0	.0	.0	.8	6.4	26.2	1.7
Mar	45.4	24.9	35.2	70+	1992	31	42.4	1992	-18	1945	5	28.5	1976	926	0	.0	.0	8.5	.6	26.2	.1
Apr	56.6	29.6	43.1	88	1934	21	48.0	1987	-1	1936	1	37.5	1972	657	0	.0	.0	22.9	.0	18.4	.0
May	66.5	37.0	51.8	97	1936	30	58.0	1993	18	1954	1	46.4	1984	412	1	.0	.2	30.2	.0	5.4	.0
Jun	73.5	42.7	58.1	97	1912	26	62.8	1992	24	1918	3	53.2	1981	219	12	.0	.8	29.9	.0	.4	.0
Jul	81.4	45.6	63.5	102	1924	2	69.3	1998	29	1917	29	58.4	1993	113	66	@	5.3	31.0	.0	.1	.0
Aug	81.7	44.5	63.1	103	1961	4	66.9	1986	26	1914	31	57.5	1980	111	52	.0	5.5	31.0	.0	.2	.0
Sep	71.1	37.1	54.1	97	1988	2	60.1	1990	16+	1934	25	49.1	1984	337	10	.0	.5	29.6	.0	5.3	.0
Oct	55.5	30.4	43.0	83+	1943	8	47.0	1988	-5	1935	31	37.7	1984	684	0	.0	.0	22.2	.1	16.3	.0
Nov	37.6	25.6	31.6	64	1965	1	36.9	1998	-16	1955	16	20.8	1985	1002	0	.0	.0	1.4	7.3	23.1	.3
Dec	30.6	20.1	25.4	55	1933	22	31.8	1979	-36	1968	30	16.0	1983	1229	0	.0	.0	.1	18.4	29.0	1.4
Ann	55.5	31.5	43.5	103	Aug 1961	4	69.3	Jul 1998	-36	Dec 1968	30	9.8	Jan 1979	7961	141	@	12.3	207.6	49.5	180.3	6.1

+ 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: 1911-2001

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

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Elevation: 2,380 Feet Lat: 48°21N

Lon: 116°50W

Precipitation (inches)

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	3.74	3.92	1.74	1967	19	8.26	1974	.27	1985	15.0	9.9	2.2	.5	1.07	1.43	1.96	2.43	2.88	3.36	3.88	4.50	5.30	6.56	7.73
Feb	3.12	2.69	1.73	1970	16	6.66	1999	.92	1993	12.1	8.5	1.7	.3	.97	1.27	1.71	2.09	2.45	2.83	3.25	3.74	4.37	5.35	6.26
Mar	2.72	2.61	1.90	1966	9	5.36	1997	.73	1992	13.3	8.0	1.1	.2	1.05	1.31	1.67	1.97	2.25	2.54	2.85	3.21	3.67	4.37	5.02
Apr	2.25	2.15	1.50	1982	11	4.51	1996	.32	1977	11.4	6.4	1.1	.2	.79	1.00	1.31	1.57	1.82	2.08	2.35	2.68	3.09	3.73	4.32
May	2.60	2.24	3.34	1998	27	7.13	1998	.74	1992	12.1	7.3	1.4	.2	.98	1.22	1.57	1.86	2.13	2.41	2.72	3.07	3.53	4.22	4.86
Jun	2.24	1.97	2.91	1992	13	4.43	1992	.61	1973	10.5	5.9	.9	.3	.67	.88	1.20	1.47	1.74	2.02	2.33	2.69	3.16	3.89	4.57
Jul	1.39	1.10	1.34	1937	14	4.03	1983	.00	1973	6.9	3.6	.7	.1	.06	.19	.39	.60	.82	1.06	1.35	1.72	2.21	3.03	3.83
Aug	1.32	.99	1.66	1918	11	3.66	1976	.02	1986	5.9	3.4	.6	.2	.11	.20	.37	.56	.76	.99	1.26	1.61	2.09	2.89	3.68
Sep	1.43	1.34	1.65	1927	11	3.52	1997	.01	1990	6.5	3.8	.9	.1	.14	.25	.44	.64	.86	1.10	1.39	1.75	2.24	3.06	3.86
Oct	1.92	1.85	1.75	1951	2	4.69	1996	.13	1987	8.7	5.6	1.0	.1	.27	.43	.70	.97	1.25	1.55	1.91	2.34	2.93	3.88	4.80
Nov	4.30	3.79	2.40	1959	20	10.46	1973	1.31	1993	15.4	10.4	2.6	.6	1.35	1.76	2.36	2.88	3.38	3.90	4.47	5.14	6.00	7.35	8.59
Dec	4.39	4.46	2.21	1951	18	8.78	1996	.93	1985	15.9	10.8	2.9	.5	1.43	1.84	2.46	2.98	3.48	4.00	4.57	5.24	6.10	7.43	8.66
Ann	31.42	31.35	3.34	May 1998	27	10.46	Nov 1973	.00	Jul 1973	133.7	83.6	17.1	3.3	22.51	24.24	26.46	28.14	29.63	31.07	32.56	34.20	36.19	39.08	41.57

+ 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: 1911-2001

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

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COOP ID: 107386

Climate Division: ID 1

NWS Call Sign:

Elevation: 2,380 Feet

Lat: 48° 21N

Lon: 116° 50W

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	22.1	23.1	16	15	11.6	1993	4	44.0	1982	48	1997	29	43	1997	9.1	6.8	3.2	1.2	.1	28.5	27.6	27.4	25.0
Feb	13.4	10.6	17	16	11.0	1986	15	44.2	1990	48	1997	13	45	1997	6.0	4.5	2.0	.6	@	26.2	25.7	24.7	21.3
Mar	4.5	2.0	9	8	8.5	1975	22	19.4	1997	50	1997	15	41	1997	2.6	1.8	.5	.1	.0	17.8	16.4	15.1	11.5
Apr	.2	.0	1	0	3.0	2000	14	3.0+	2000	24	1997	1	8	1997	.2	.2	@	.0	.0	1.2	1.0	.8	.5
May	#	.0	#	0	#	1988	1	#+	1988	#	1999	9	#	1999	.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	1.0	1971	29	1.0	1971	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Oct	.4	.0	#	0	3.0	1984	30	4.5	1984	4	1984	30	#+	1996	.2	.2	@	.0	.0	.4	@	.0	.0
Nov	10.8	7.8	2	1	14.5	1996	17	60.2	1996	32	1996	27	13	1996	5.2	3.4	1.4	.5	.1	9.3	5.7	4.0	1.3
Dec	23.5	22.2	9	7	10.5	1971	14	62.2	1996	51	1996	29	39	1996	9.8	7.3	3.1	1.0	@	26.1	21.3	18.6	12.5
Ann	74.9	65.7	N/A	N/A	14.5	Nov 1996	17	62.2	Dec 1996	51	Dec 1996	29	45	Feb 1997	33.1	24.2	10.2	3.4	.2	109.5	97.7	90.6	72.1

+ 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:

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

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No. 20 1971-2000

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COOP ID: 107386

Climate Division: ID 1

NWS Call Sign:

Elevation: 2,380 Feet

Lat: 48° 21N

Lon: 116° 50W

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	7/13	7/06	7/01	6/27	6/23	6/19	6/14	6/09	6/02
32	6/18	6/10	6/04	5/31	5/26	5/22	5/17	5/12	5/04
28	5/18	5/14	5/11	5/08	5/06	5/03	5/01	4/28	4/24
24	4/27	4/22	4/18	4/14	4/11	4/08	4/05	4/01	3/27
20	4/20	4/12	4/06	4/01	3/27	3/22	3/17	3/11	3/02
16	3/29	3/21	3/16	3/11	3/06	3/02	2/25	2/19	2/11
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	8/14	8/19	8/23	8/26	8/29	9/01	9/04	9/08	9/13
32	8/31	9/05	9/08	9/11	9/14	9/16	9/19	9/23	9/28
28	9/10	9/16	9/20	9/24	9/27	10/01	10/04	10/09	10/14
24	9/25	10/02	10/06	10/10	10/14	10/18	10/22	10/27	11/03
20	10/05	10/14	10/21	10/26	11/01	11/06	11/12	11/18	11/28
16	10/22	10/31	11/06	11/11	11/16	11/21	11/26	12/02	12/10
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	92	83	77	71	66	61	56	50	41
32	139	129	121	115	110	104	98	91	81
28	169	160	154	149	144	139	134	128	119
24	209	201	195	190	185	180	175	169	161
20	258	244	234	226	218	210	202	192	178
16	286	275	267	260	254	247	241	232	221

* 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

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No. 20
1971-2000**

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COOP ID: 107386

Climate Division: ID 1

NWS Call Sign:

Elevation: 2,380 Feet Lat: 48° 21N Lon: 116° 50W

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	1254	1017	926	657	412	219	113	111	337	684	1002	1229	7961
60	1099	877	771	507	268	107	42	39	212	529	852	1074	6377
57	1006	793	678	418	191	60	18	17	150	437	762	981	5511
55	944	737	616	361	148	37	10	9	114	375	702	919	4972
50	789	597	462	228	66	7	0	1	48	228	552	764	3742
32	287	153	55	6	0	0	0	0	0	3	120	255	879

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	56	60	152	339	612	783	976	964	663	341	109	49	5104
55	0	0	0	4	47	129	273	260	87	1	0	0	801
57	0	0	0	2	28	93	219	206	63	0	0	0	611
60	0	0	0	0	12	50	150	135	35	0	0	0	382
65	0	0	0	0	1	12	66	52	10	0	0	0	141
70	0	0	0	0	0	1	18	11	2	0	0	0	32

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	21	156	401	580	768	753	463	157	14	0	0	0	21	177	578	1158	1926	2679	3142	3299	3313	3313
45	0	0	0	71	259	431	613	598	317	68	1	0	0	0	0	71	330	761	1374	1972	2289	2357	2358	2358
50	0	0	0	23	135	284	458	443	187	20	0	0	0	0	0	23	158	442	900	1343	1530	1550	1550	1550
55	0	0	0	6	59	157	304	293	85	2	0	0	0	0	0	6	65	222	526	819	904	906	906	906
60	0	0	0	0	14	63	172	156	23	0	0	0	0	0	0	0	14	77	249	405	428	428	428	428
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	22	123	270	366	489	488	322	110	0	0	0	0	22	145	415	781	1270	1758	2080	2190	2190	2190

(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/normal/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.

- 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