U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: PRESTON, ID **COOP ID: 107346**

Climate Division: ID10 **NWS Call Sign:** **Elevation: 4,800 Feet** **Lat: 42˚05N** **Lon: 111˚52W**

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	30.3	12.2	21.3	54+	1997	1	30.2	1994	-25+	1984	19	10.2	1979	1356	0	.0	.0	.2	16.3	30.3	6.3
Feb	36.6	16.2	26.4	62	1986	27	34.6	2000	-31	1982	6	14.5	1985	1080	0	.0	.0	2.1	9.3	27.4	3.1
Mar	47.7	25.5	36.6	74+	1986	30	43.7	1986	-12	1969	13	26.7	1985	881	0	.0	.0	13.0	1.4	26.4	.3
Apr	57.9	32.1	45.0	83+	1994	22	51.8	1992	12	1970	1	38.4	1975	600	0	.0	.0	24.9	@	17.4	.0
May	67.5	39.5	53.5	90	2001	26	59.3	1994	21	1965	6	49.6	1975	359	3	.0	.0	29.6	.0	4.5	.0
Jun	78.0	45.8	61.9	95+	1990	27	67.1	1988	27	1970	14	56.5	1998	140	46	.1	2.6	30.0	.0	.2	.0
Jul	87.1	51.6	69.4	101	1985	10	72.6	1985	32	1968	1	61.8	1993	24	160	.1	12.2	31.0	.0	.0	.0
Aug	86.1	50.3	68.2	100	2001	6	71.6	2000	30	1992	26	64.4	1976	28	127	@	9.9	31.0	.0	5.0	.0
Sep	76.1	41.1	58.6	94	1990	14	65.0	1990	13	1965	19	53.8	1971	217	26	.0	1.0	29.6	.0	3.5	.0
Oct	62.5	31.3	46.9	84+	2001	2	53.3	1988	12	1971	30	40.7	1984	560	0	.0	.0	26.9	.1	16.3	.0
Nov	44.6	22.6	33.6	70+	1999	9	40.8	1995	-8+	1992	28	27.0	1994	942	0	.0	.0	9.3	3.4	27.3	.6
Dec	32.8	13.8	23.3	65	1995	2	31.3	1995	-31	1990	23	13.2	1990	1293	0	.0	.0	1.1	14.1	29.9	3.7
Ann	58.9	31.8	45.4	101	Jul 1985	10	72.6	Jul 1985	-31+	Dec 1990	23	10.2	Jan 1979	7480	362	.2	25.7	228.7	44.6	188.2	14.0

\+ 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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1964-2001

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

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	1.39	1.21	1.05	1997	2	2.97	1997	.53	1992
Feb	1.26	1.33	1.58	1986	18	3.35	1986	.05	1988
Mar	1.47	1.26	1.39	1995	13	5.19	1982	.23	1988
Apr	1.39	1.28	.93	1982	11	2.72	1999	.18	1973
May	2.14	1.63	1.42	1981	22	7.64	1981	.25	1972
Jun	1.20	.98	2.04	1980	3	3.37	1980	.09	1986
Jul	.94	.75	1.09	1987	22	2.35+	1997	.05	2000
Aug	1.05	.94	1.37	1971	30	3.05	1991	.00+	1986
Sep	1.31	1.16	2.20	1986	28	4.99	1986	.05	1974
Oct	1.61	1.43	1.43	1983	10	5.10	1981	.06	1978
Nov	1.20	1.03	.98	1965	23	2.87	1983	.04	1993
Dec	1.33	1.20	.83	1983	7	4.77	1983	.10	1986
Ann	16.29	15.08	2.20	Sep 1986	28	7.64	May 1981	.00+	Aug 1986

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.9	3.9	.2	@
Feb	8.4	4.0	.3	@
Mar	8.7	4.6	.3	.1
Apr	8.9	4.0	.2	.0
May	10.4	5.9	.9	.2
Jun	5.6	2.6	.5	@
Jul	4.7	2.2	.4	@
Aug	4.8	2.8	.7	.2
Sep	5.5	3.1	.7	.2
Oct	6.5	4.4	.8	.2
Nov	8.5	4.0	.2	.0
Dec	7.1	3.7	.3	.0
Ann	86.0	45.2	5.5	.9

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.51	.64	.83	.98	1.13	1.29	1.45	1.65	1.90	2.28	2.63
Feb	.25	.36	.55	.72	.89	1.07	1.28	1.54	1.87	2.41	2.92
Mar	.43	.57	.78	.96	1.14	1.33	1.53	1.77	2.08	2.57	3.02
Apr	.28	.40	.61	.80	.99	1.19	1.42	1.70	2.06	2.65	3.21
May	.35	.54	.85	1.15	1.45	1.78	2.16	2.62	3.23	4.23	5.18
Jun	.14	.24	.40	.57	.75	.95	1.18	1.47	1.85	2.49	3.12
Jul	.08	.14	.26	.39	.54	.70	.90	1.14	1.48	2.05	2.61
Aug	.00	.07	.23	.40	.57	.77	1.01	1.30	1.71	2.38	3.05
Sep	.11	.20	.38	.56	.76	.98	1.25	1.59	2.06	2.84	3.61
Oct	.20	.32	.55	.77	1.01	1.27	1.58	1.96	2.48	3.33	4.16
Nov	.20	.30	.47	.64	.81	.99	1.20	1.46	1.80	2.36	2.90
Dec	.20	.31	.50	.68	.87	1.08	1.32	1.62	2.02	2.66	3.28
Ann	9.23	10.48	12.14	13.45	14.64	15.81	17.05	18.44	20.16	22.71	24.97

\+ 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: 1964-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	11.0	9.5	4	3
Feb	7.7	8.3	2	1
Mar	4.9	3.0	#	0
Apr	.7	.0	0	0
May	.0	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	1.0	.0	#	0
Nov	3.5	2.0	#	0
Dec	11.7	11.2	3	3
Ann	40.5	34.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	14.0	1997	26	26.5	1993	35	1982	21	11	1982
Feb	10.0	1995	14	20.0	1974	10	1974	17	6	1997
Mar	5.0	1994	23	16.0	2000	6	1974	4	2+	1998
Apr	3.0	1984	26	5.0+	1997	3	1982	2	1	1982
May	.0	0	0	.0	0	#	1982	3	#	1982
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	3.5	1980	15	5.4	1971	3+	1984	18	#+	1984
Nov	3.0	1971	14	9.5	1994	6	1971	30	1	1973
Dec	7.0	1981	30	20.5	1990	15	1971	16	11	1971
Ann	14.0	Jan 1997	26	26.5	Jan 1993	35	Jan 1982	21	11+	Jan 1982

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	5.4	4.6	1.4	.4	.1
Feb	3.3	3.1	.8	.1	.1
Mar	2.5	2.3	.6	.1	.0
Apr	.3	.3	.1	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.5	.4	.2	.0	.0
Nov	2.4	1.9	.1	.0	.0
Dec	5.8	4.6	1.1	.4	.0
Ann	20.2	17.2	4.3	1.0	.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-9.9	-9.9
Apr	-9.9	-9.9	-9.9	-9.9
May	-9.9	-9.9	-9.9	-9.9
Jun	-9.9	-9.9	-9.9	-9.9
Jul	-9.9	-9.9	-9.9	-9.9
Aug	-9.9	-9.9	-9.9	-9.9
Sep	-9.9	-9.9	-9.9	-9.9
Oct	-9.9	-9.9	-9.9	-9.9
Nov	-9.9	-9.9	-9.9	-9.9
Dec	-9.9	-9.9	-9.9	-9.9
Ann	-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	6/30	6/24	6/19	6/16	6/12	6/08	6/04	5/31	5/24
32	6/08	6/02	5/28	5/24	5/21	5/17	5/13	5/09	5/02
28	5/16	5/12	5/09	5/06	5/03	5/01	4/28	4/25	4/21
24	5/05	4/29	4/25	4/21	4/18	4/15	4/11	4/07	4/01
20	4/17	4/09	4/04	3/31	3/27	3/23	3/18	3/13	3/06
16	4/05	3/29	3/23	3/18	3/14	3/09	3/05	2/27	2/19

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	8/08	8/17	8/24	8/30	9/04	9/09	9/15	9/21	9/30
32	8/11	8/21	8/28	9/03	9/09	9/15	9/21	9/29	10/09
28	8/14	8/26	9/04	9/12	9/19	9/27	10/04	10/14	10/26
24	8/23	9/06	9/16	9/25	10/04	10/12	10/21	10/31	11/14
20	9/23	10/04	10/12	10/18	10/24	10/30	11/06	11/14	11/24
16	10/30	11/04	11/07	11/10	11/13	11/15	11/18	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	116	105	97	90	83	77	70	62	50
32	151	137	127	119	111	103	95	85	71
28	180	165	155	147	138	130	121	111	97
24	212	197	186	177	168	159	150	139	123
20	248	235	226	218	211	203	195	186	173
16	272	262	255	249	243	237	231	224	214

***** 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)

Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1356	1080	881	600	359	140	24	28	217	560	942	1293	7480
60	1201	940	726	454	221	60	4	5	116	408	792	1138	6065
57	1108	856	635	371	152	30	1	1	72	319	702	1045	5292
55	1046	800	576	317	114	17	0	0	49	264	642	983	4808
50	891	660	433	200	45	3	0	0	15	146	494	828	3715
32	384	227	79	10	0	0	0	0	0	2	99	316	1117

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	51	70	220	400	667	897	1159	1121	799	464	147	46	6041
55	0	0	4	17	68	224	446	409	158	14	0	0	1340
57	0	0	2	11	44	177	384	348	121	7	0	0	1094
60	0	0	0	4	20	117	294	258	75	2	0	0	770
65	0	0	0	0	3	46	160	127	26	0	0	0	362
70	0	0	0	0	0	12	65	41	6	0	0	0	124

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	4	56	177	418	671	920	811	566	255	28	1	0	4	60	237	655	1326	2246	3057	3623	3878	3906	3907
45	0	0	14	85	281	521	765	657	416	139	5	0	0	0	14	99	380	901	1666	2323	2739	2878	2883	2883
50	0	0	0	31	157	378	610	503	282	55	0	0	0	0	0	31	188	566	1176	1679	1961	2016	2016	2016
55	0	0	0	13	74	240	455	353	161	15	0	0	0	0	0	13	87	327	782	1135	1296	1311	1311	1311
60	0	0	0	0	22	126	302	220	69	0	0	0	0	0	0	0	22	148	450	670	739	739	739	739
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	5	53	142	286	433	583	559	398	214	32	0	0	5	58	200	486	919	1502	2061	2459	2673	2705	2705

(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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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