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: IDAHO CITY, ID **COOP ID: 104442**

Climate Division: ID 4 **NWS Call Sign:** **Elevation: 3,965 Feet** **Lat: 43˚50N** **Lon: 115˚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	34.9	12.2	23.6	56+	1953	24	29.4	1981	-38	1937	21	14.0	1979	1284	0	.0	.0	.5	9.1	30.6	6.0
Feb	41.0	15.0	28.0	65+	1992	29	36.1	1992	-35	1950	2	19.1+	1989	1037	0	.0	.0	4.0	3.5	27.7	2.8
Mar	48.0	21.9	35.0	76	1966	30	41.9	1992	-20	1955	5	27.9	1976	932	0	.0	.0	13.0	.2	28.9	.4
Apr	57.3	27.6	42.5	88+	1987	28	48.0	1987	-8	1936	1	36.0	1982	676	0	.0	.0	23.7	.0	23.6	.0
May	66.8	34.6	50.7	95+	1936	26	55.5	1992	17	1943	11	45.0	1977	443	0	.0	.3	29.5	.0	11.6	.0
Jun	76.1	40.2	58.2	106	1940	19	63.3	1986	24+	1954	2	54.5	1976	221	15	.0	3.1	29.9	.0	3.4	.0
Jul	85.8	44.4	65.1	109	1934	29	70.6	1985	26	1955	2	56.5	1993	92	96	.3	12.1	31.0	.0	.4	.0
Aug	85.6	43.0	64.3	106	1961	4	68.1	1971	24	1932	31	58.8	1976	105	81	.5	11.7	31.0	.0	.8	.0
Sep	75.4	34.8	55.1	100+	1981	13	62.0	1990	11	1954	30	49.6	1985	311	15	@	2.2	29.7	.0	9.1	.0
Oct	62.8	26.8	44.8	91	1934	11	52.5	1988	2	1971	29	40.5	1985	626	0	.0	@	27.2	.1	23.2	.0
Nov	43.8	20.4	32.1	75	1931	4	38.9	1981	-18	1985	23	23.6	1985	987	0	.0	.0	7.6	2.1	27.4	.7
Dec	34.8	12.6	23.7	64	1939	5	28.7	1977	-32+	1990	23	13.7	1990	1281	0	.0	.0	.2	9.1	30.5	4.2
Ann	59.4	27.8	43.6	109	Jul 1934	29	70.6	Jul 1985	-38	Jan 1937	21	13.7	Dec 1990	7995	207	.8	29.4	227.3	24.1	217.2	14.1

\+ 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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1931-2001

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

Issue Date: February 2004

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: IDAHO CITY, ID **COOP ID: 104442**

Climate Division: ID 4 **NWS Call Sign:** **Elevation: 3,965 Feet** **Lat: 43˚50N** **Lon: 115˚50W**

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	3.44	3.60	3.30	1940	31	7.06	1972	.16	1985
Feb	2.77	2.51	2.09	1963	1	9.15	1986	.47	1991
Mar	2.44	2.15	2.25	1932	19	5.40	1983	.18	1994
Apr	1.87	1.79	1.44	1956	26	4.88	1990	.30	1977
May	1.88	1.69	1.40	1938	1	7.31	1998	.05	1992
Jun	1.33	1.03	2.61	1958	12	4.04	1995	.02	1989
Jul	.67	.44	1.69	1975	11	2.30	1983	.00+	1999
Aug	.51	.29	1.60	1941	11	2.16	1976	.00+	2000
Sep	1.16	.83	1.77	1982	20	4.30	1986	.00+	1999
Oct	1.45	1.37	1.85	1947	16	4.00	2000	.00+	1988
Nov	3.08	2.76	1.89	1996	19	6.94	1988	.07	1976
Dec	3.51	2.72	2.59	1931	28	11.61	1996	.13	1976
Ann	24.11	22.12	3.30	Jan 1940	31	11.61	Dec 1996	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.1	7.7	2.6	.4
Feb	10.6	7.7	1.5	.2
Mar	10.6	7.3	1.1	.1
Apr	8.8	5.5	.9	.1
May	8.6	5.3	.9	.1
Jun	6.0	3.5	.8	.1
Jul	3.1	1.7	.4	@
Aug	2.7	1.5	.2	@
Sep	4.0	2.9	.8	.2
Oct	5.8	3.8	.8	.1
Nov	11.5	8.1	1.8	.3
Dec	12.0	8.6	2.2	.4
Ann	94.8	63.6	14.0	2.0

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	.72	1.03	1.54	2.00	2.46	2.95	3.51	4.18	5.06	6.47	7.80
Feb	.78	1.04	1.44	1.79	2.13	2.48	2.87	3.34	3.94	4.88	5.76
Mar	.59	.82	1.18	1.49	1.81	2.14	2.51	2.95	3.52	4.44	5.29
Apr	.46	.64	.91	1.16	1.40	1.65	1.93	2.27	2.71	3.40	4.05
May	.27	.42	.70	.96	1.23	1.53	1.87	2.30	2.87	3.80	4.69
Jun	.13	.23	.41	.59	.79	1.02	1.29	1.62	2.08	2.83	3.57
Jul	.00	.00	.10	.20	.31	.45	.61	.82	1.11	1.61	2.11
Aug	.00	.01	.05	.11	.19	.29	.42	.60	.86	1.32	1.79
Sep	.00	.00	.09	.31	.53	.79	1.08	1.46	1.97	2.81	3.68
Oct	.00	.00	.43	.69	.93	1.20	1.49	1.85	2.31	3.06	3.79
Nov	.50	.77	1.22	1.64	2.08	2.55	3.09	3.76	4.64	6.07	7.45
Dec	.38	.64	1.13	1.62	2.14	2.73	3.42	4.28	5.45	7.39	9.28
Ann	15.13	16.78	18.95	20.62	22.13	23.60	25.14	26.85	28.96	32.06	34.77

\+ 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: 1931-2001
(3) Derived from 1971-2000 serially complete daily data

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

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

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: IDAHO CITY, ID **COOP ID: 104442**

Climate Division: ID 4 **NWS Call Sign:** **Elevation: 3,965 Feet** **Lat: 43˚50N** **Lon: 115˚50W**

Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	21.6	20.0	18	18
Feb	12.1	11.8	20	19
Mar	4.2	2.0	12	10
Apr	1.2	.0	1	#
May	.1	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	#	.0	0	0
Oct	1.0	.0	#	0
Nov	12.3	7.3	2	1
Dec	19.0	16.0	10	8
Ann	71.5	57.1	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	1982	23	37.0+	1979	46	1982	23	35	1982
Feb	12.0	1976	16	39.5	1990	44	1999	23	33	1999
Mar	9.0	1985	27	18.0	1975	37	1997	2	28	1999
Apr	8.0	1998	14	8.0	1998	22	1976	1	13	1975
May	2.0	1998	27	2.0	1998	#+	2000	11	#+	2000
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	#	1986	27	#+	1986	0	0	0	0	0
Oct	6.0	1975	27	16.0	1975	6	1975	27	#+	1996
Nov	11.0	1992	22	42.5	1994	22	1994	30	8	1994
Dec	12.0	1996	5	51.0	1971	39	1983	31	24	1971
Ann	14.0	Jan 1982	23	51.0	Dec 1971	46	Jan 1982	23	35	Jan 1982

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.1	6.6	2.9	1.4	.2
Feb	4.9	4.4	1.3	.6	.1
Mar	2.0	1.8	.6	.2	.0
Apr	.4	.4	.1	@	.0
May	@	@	.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	.4	.3	.2	@	.0
Nov	3.7	3.3	1.4	.6	@
Dec	7.2	6.8	3.1	1.3	.1
Ann	25.7	23.6	9.6	4.1	.4

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	30.4	29.5	26.7	23.9
Feb	24.5	23.4	22.8	21.1
Mar	16.5	15.2	14.7	11.8
Apr	1.6	1.4	1.4	.3
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.4	.2	@	.0
Nov	10.5	7.3	4.1	2.3
Dec	24.4	22.2	16.6	10.8
Ann	108.3	99.2	86.3	70.2

+ 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

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: IDAHO CITY, ID **COOP ID: 104442**

Climate Division: ID 4 **NWS Call Sign:** **Elevation: 3,965 Feet** **Lat: 43˚50N** **Lon: 115˚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	7/23	7/18	7/15	7/12	7/09	7/06	7/03	6/30	6/25
32	7/10	7/05	7/01	6/28	6/25	6/21	6/18	6/14	6/09
28	6/21	6/13	6/07	6/02	5/29	5/24	5/19	5/13	5/05
24	5/21	5/15	5/11	5/08	5/04	5/01	4/27	4/23	4/17
20	5/07	4/29	4/23	4/18	4/14	4/09	4/04	3/29	3/22
16	4/09	4/03	3/29	3/25	3/22	3/18	3/14	3/10	3/03

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	8/03	8/09	8/13	8/17	8/20	8/23	8/27	8/31	9/06
32	8/16	8/22	8/26	8/30	9/02	9/06	9/09	9/13	9/19
28	9/02	9/07	9/11	9/14	9/16	9/19	9/22	9/26	9/30
24	9/17	9/22	9/26	9/29	10/02	10/05	10/08	10/12	10/17
20	9/29	10/04	10/08	10/11	10/15	10/18	10/21	10/25	10/30
16	10/16	10/22	10/26	10/29	11/01	11/04	11/08	11/12	11/17

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	65	57	51	46	41	36	31	25	17
32	92	84	78	74	69	64	60	54	46
28	138	128	121	116	110	105	99	92	82
24	170	163	158	154	150	146	141	136	129
20	209	200	194	188	183	178	172	166	157
16	252	242	235	229	224	218	212	205	196

***** 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/normals/usnormals.html

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: IDAHO CITY, ID **COOP ID: 104442**

Climate Division: ID 4 **NWS Call Sign:** **Elevation: 3,965 Feet** **Lat: 43˚50N** **Lon: 115˚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	1284	1037	932	676	443	221	92	105	311	626	987	1281	7995
60	1129	897	777	526	294	111	32	39	192	472	837	1126	6432
57	1036	813	684	438	213	64	14	19	134	381	747	1033	5576
55	974	757	622	380	165	41	8	11	101	322	687	971	5039
50	819	617	467	245	74	9	0	1	42	189	538	816	3817
32	292	187	63	8	0	0	0	0	0	3	119	293	965

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	31	74	155	322	580	785	1027	1000	693	400	121	36	5224
55	0	0	0	4	32	135	322	298	105	6	0	0	902
57	0	0	0	1	18	99	266	244	77	3	0	0	708
60	0	0	0	0	6	56	190	171	45	1	0	0	469
65	0	0	0	0	0	15	96	81	15	0	0	0	207
70	0	0	0	0	0	2	34	26	3	0	0	0	65

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	2	30	138	358	567	807	788	486	217	24	0	0	2	32	170	528	1095	1902	2690	3176	3393	3417	3417
45	0	0	4	62	227	417	652	633	345	110	5	0	0	0	4	66	293	710	1362	1995	2340	2450	2455	2455
50	0	0	0	20	121	276	497	478	217	44	0	0	0	0	0	20	141	417	914	1392	1609	1653	1653	1653
55	0	0	0	3	50	163	343	327	115	13	0	0	0	0	0	3	53	216	559	886	1001	1014	1014	1014
60	0	0	0	0	14	70	205	190	42	0	0	0	0	0	0	0	14	84	289	479	521	521	521	521
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	8	45	144	276	397	527	523	387	223	28	0	0	8	53	197	473	870	1397	1920	2307	2530	2558	2558

(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