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 FALLS 2 ESE, ID **COOP ID: 104455**

Climate Division: ID 9 **NWS Call Sign:** **Elevation: 4,765 Feet** **Lat: 43˚29N** **Lon: 112˚01W**

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	29.7	12.5	21.1	55+	1974	16	30.0	1998	-29+	1963	12	9.3	1979	1362	0	.0	.0	.2	17.2	30.1	5.9
Feb	36.6	16.8	26.7	63	1963	6	35.5	1992	-34	1985	1	14.2	1985	1072	0	.0	.0	2.4	8.6	26.6	3.0
Mar	47.6	24.8	36.2	75	1986	28	43.5	1992	-15	1960	1	24.9	1985	894	0	.0	.0	12.6	1.2	26.2	.2
Apr	58.7	31.3	45.0	85	1992	29	51.2	1987	9	1953	2	36.4	1975	600	0	.0	.0	24.2	.0	16.1	.0
May	67.9	38.7	53.3	92	1986	31	60.1	1992	20+	1982	5	48.3	1975	366	4	.0	@	29.8	.0	4.7	.0
Jun	77.8	46.0	61.9	100	1988	26	68.3	1988	28	1995	7	57.6	1998	146	53	@	3.0	30.0	.0	.4	.0
Jul	86.0	51.4	68.7	100+	2000	31	73.0	1998	34	1981	8	61.0	1993	34	148	.1	10.4	31.0	.0	.0	.0
Aug	85.8	49.9	67.9	100	1961	4	71.8	2000	31	1992	26	62.9	1993	51	138	.0	9.8	31.0	.0	.1	.0
Sep	75.1	41.3	58.2	95	1990	15	64.8	1990	18+	1985	30	51.9	1971	235	30	.0	1.3	29.8	.0	3.7	.0
Oct	61.4	32.2	46.8	87	1992	1	54.2	1988	7	1991	30	42.0	1984	564	0	.0	.0	26.6	.2	16.2	.0
Nov	43.0	23.2	33.1	73	1965	1	40.6	1999	-12+	1993	26	25.8	1985	957	0	.0	.0	8.1	4.6	26.1	.8
Dec	31.3	13.4	22.4	60	1995	1	28.8	1995	-29	1972	10	11.8	1985	1323	0	.0	.0	.6	15.6	29.8	4.3
Ann	58.4	31.8	45.1	100+	Jul 2000	31	73.0	Jul 1998	-34	Feb 1985	1	9.3	Jan 1979	7604	373	.1	24.5	226.3	47.4	180.0	14.2

\+ 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: 1952-2001

(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	1.25	1.15	1.60	1986	1	2.38	1986	.22	1992
Feb	1.01	.92	1.35	1986	15	3.13	1986	.00	1991
Mar	1.33	1.31	1.49	1995	11	4.30	1995	.04	1994
Apr	1.27	1.25	1.06	2000	18	2.82	1978	.20	1992
May	2.01	1.66	1.67	1993	6	4.56	1993	.33	1972
Jun	1.18	.89	1.19	1997	12	3.16	1995	.15	1996
Jul	.74	.55	1.14	1954	15	2.13	1983	.00+	1988
Aug	.93	.92	1.45	1971	29	2.66	1972	.07	1992
Sep	.94	.70	1.73	1998	12	2.81	1998	.00+	1987
Oct	1.12	1.13	.97	1961	21	2.49	1974	.00	1988
Nov	1.17	1.09	.90	1970	30	3.20	1988	.00	1976
Dec	1.26	1.19	1.10	1997	7	3.18	1983	.00+	1989
Ann	14.21	13.57	1.73	Sep 1998	12	4.56	May 1993	.00+	Feb 1991

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.3	4.0	.2	@
Feb	9.5	3.5	.2	@
Mar	9.7	4.5	.3	.1
Apr	9.3	4.1	.4	@
May	10.6	5.4	1.1	.2
Jun	6.9	3.0	.6	@
Jul	5.0	2.3	.2	@
Aug	5.8	2.4	.5	@
Sep	5.3	2.5	.4	@
Oct	6.5	3.3	.6	.0
Nov	9.0	4.2	.2	.0
Dec	10.1	3.5	.3	@
Ann	100.0	42.7	5.0	.3

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	.42	.54	.71	.86	1.00	1.15	1.31	1.49	1.73	2.10	2.44
Feb	.10	.22	.38	.53	.68	.84	1.02	1.24	1.54	2.01	2.47
Mar	.33	.45	.65	.82	.99	1.17	1.37	1.61	1.92	2.41	2.87
Apr	.31	.43	.62	.78	.95	1.12	1.31	1.54	1.84	2.31	2.75
May	.46	.65	.94	1.20	1.47	1.75	2.06	2.43	2.93	3.71	4.44
Jun	.23	.33	.51	.67	.83	1.00	1.20	1.43	1.75	2.25	2.73
Jul	.00	.04	.14	.25	.37	.51	.69	.91	1.22	1.74	2.26
Aug	.08	.15	.27	.40	.54	.70	.89	1.13	1.47	2.02	2.56
Sep	.00	.00	.22	.38	.54	.72	.93	1.19	1.52	2.09	2.64
Oct	.07	.18	.36	.52	.69	.89	1.11	1.38	1.75	2.35	2.93
Nov	.23	.39	.59	.75	.90	1.06	1.23	1.44	1.70	2.11	2.50
Dec	.00	.26	.52	.72	.91	1.11	1.32	1.57	1.91	2.44	2.94
Ann	9.39	10.29	11.47	12.37	13.18	13.97	14.78	15.69	16.80	18.43	19.84

+ 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: 1952-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	9.3	6.5	5	3	6.0	1977	3	17.5	1971	26	1993	13	26	1993	5.1	4.6	1.8	.4	.0	-9.9	-9.9	-9.9	-9.9
Feb	5.6	4.3	2	1	10.0	2000	25	15.8	1985	20	1979	2	15	1979	3.1	2.6	.8	.2	.1	-9.9	-9.9	-9.9	-9.9
Mar	3.9	4.0	1	#	6.0	1985	2	12.0	1985	22	1984	6	7	1984	1.8	1.6	.4	.1	.0	1.8	.8	.6	.0
Apr	.6	.0	#	0	3.0	1997	1	3.0+	1997	2	1982	1	#+	1988	.3	.3	@	.0	.0	.1	.0	.0	.0
May	.1	.0	#	0	1.5	1988	1	1.5	1988	1	1988	1	#+	1990	.1	.1	.0	.0	.0	.1	.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	.1	.0	0	0	2.0	1983	19	2.0	1983	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Oct	.5	.0	#	0	6.0	1997	24	7.0	1997	4	1997	24	#+	1997	.2	.2	.1	@	.0	.1	.1	.0	.0
Nov	4.5	4.5	#	#	6.0	1998	6	11.2	2000	12	1985	29	1+	2000	2.8	2.3	.5	.1	.0	1.9	.6	.3	.0
Dec	8.2	9.7	5	3	10.0	1983	4	22.5	1994	23	1983	6	15	1985	4.2	3.6	1.4	.4	.0	-9.9	-9.9	-9.9	-9.9
Ann	32.8	29.0	N/A	N/A	10.0+	Feb 2000	25	22.5	Dec 1994	26	Jan 1993	13	26	Jan 1993	17.6	15.3	5.0	1.2	.1	-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	6/28	6/22	6/18	6/14	6/11	6/07	6/04	5/31	5/25
32	6/16	6/09	6/04	5/31	5/27	5/23	5/19	5/14	5/07
28	5/24	5/18	5/14	5/11	5/07	5/04	5/01	4/26	4/21
24	5/05	4/30	4/26	4/23	4/20	4/17	4/14	4/10	4/05
20	4/22	4/15	4/11	4/07	4/03	3/30	3/26	3/22	3/15
16	4/10	4/02	3/27	3/22	3/18	3/13	3/08	3/03	2/23

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

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	112	104	99	94	90	85	80	75	67
32	138	130	124	120	115	110	106	100	92
28	169	162	156	151	147	142	137	132	124
24	195	188	183	178	174	170	166	161	154
20	232	223	216	210	205	200	194	188	179
16	264	254	246	240	234	228	222	214	204

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1362	1072	894	600	366	146	34	51	235	564	957	1323	7604
60	1207	932	739	455	230	67	7	15	132	411	807	1168	6170
57	1114	848	647	372	161	36	2	5	86	323	717	1075	5386
55	1052	792	587	319	123	22	0	3	61	267	657	1013	4896
50	897	655	444	205	52	5	0	0	21	149	510	858	3796
32	389	234	86	11	0	0	0	0	0	2	110	345	1177

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	50	86	216	402	661	897	1137	1110	785	461	144	44	5993
55	0	0	4	20	71	229	424	400	157	14	0	0	1319
57	0	0	1	13	47	183	363	341	121	7	0	0	1076
60	0	0	0	6	23	124	276	257	78	2	0	0	766
65	0	0	0	0	4	53	148	138	30	0	0	0	373
70	0	0	0	0	0	16	61	58	8	0	0	0	143

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	5	51	200	440	682	912	881	562	246	30	1	0	5	56	256	696	1378	2290	3171	3733	3979	4009	4010
45	0	0	11	106	294	532	757	726	417	131	6	0	0	0	11	117	411	943	1700	2426	2843	2974	2980	2980
50	0	0	0	46	173	388	602	571	280	52	0	0	0	0	0	46	219	607	1209	1780	2060	2112	2112	2112
55	0	0	0	16	84	246	447	418	161	13	0	0	0	0	0	16	100	346	793	1211	1372	1385	1385	1385
60	0	0	0	3	27	134	297	269	73	1	0	0	0	0	0	3	30	164	461	730	803	804	804	804
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	5	47	155	294	432	576	564	387	203	28	0	0	5	52	207	501	933	1509	2073	2460	2663	2691	2691

(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.
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