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: SANDPOINT EXP STATION, ID **COOP ID: 108137**

Climate Division: ID 1 **NWS Call Sign:** **Elevation: 2,100 Feet** **Lat: 48˚18N** **Lon: 116˚33W**

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	31.6	19.4	25.5	54	1919	23	32.9	1999	-31	1950	30	11.4	1979	1224	0	.0	.0	.1	12.6	27.2	1.8
Feb	37.6	22.8	30.2	61	1995	25	37.4	1991	-35	1933	9	19.8	1989	975	0	.0	.0	1.5	4.8	24.0	1.0
Mar	46.5	28.1	37.3	71	1915	22	41.7	1992	-10	1955	4	32.0	1976	858	0	.0	.0	11.0	.6	22.4	.1
Apr	56.4	34.2	45.3	87	1977	24	50.1	1987	9+	1936	2	40.8	1982	592	0	.0	.0	24.2	.0	13.6	.0
May	65.4	40.9	53.2	97	1936	30	58.0	1993	22	1972	1	48.5	1996	368	1	.0	.2	30.4	.0	3.4	.0
Jun	72.1	46.7	59.4	96+	1992	25	63.7	1974	28+	1919	7	54.2	1981	187	20	.0	.7	29.9	.0	.2	.0
Jul	80.1	49.7	64.9	104+	1994	24	71.1	1998	33+	1971	7	58.7	1993	87	83	.0	4.2	31.0	.0	.0	.0
Aug	80.2	48.7	64.5	100+	1961	4	67.7	1986	28	1924	30	60.1	1980	89	71	.0	4.4	31.0	.0	.1	.0
Sep	70.0	41.4	55.7	96	1938	2	61.7	1998	16	1926	24	51.5	1985	290	10	.0	.3	29.8	.0	3.2	.0
Oct	56.1	33.2	44.7	82	1923	24	49.3	1988	4	1935	31	40.9	1984	632	0	.0	.0	24.7	.0	14.9	.0
Nov	40.0	27.5	33.8	66	1975	3	40.1	1998	-10	1921	19	22.5	1985	938	0	.0	.0	3.6	3.3	20.6	.2
Dec	32.4	21.4	26.9	58	1917	18	32.9	1979	-37	1968	30	18.0	1983	1182	0	.0	.0	.4	12.3	27.6	1.0
Ann	55.7	34.5	45.1	104+	Jul 1994	24	71.1	Jul 1998	-37	Dec 1968	30	11.4	Jan 1979	7422	185	.0	9.8	217.6	33.6	157.2	4.1

\+ 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: 1910-2001

(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	3.94	4.03	2.39	1954	22	8.28	1974	.32	1985
Feb	3.47	2.84	2.10	1932	26	7.81	1999	.66	1989
Mar	2.85	2.80	1.79	1987	3	6.70	1997	.30	1996
Apr	2.25	2.08	1.80	1997	20	4.91	1996	.30	1977
May	2.75	2.43	2.95	1998	27	6.80	1998	.78	1992
Jun	2.46	2.17	2.50	1992	13	6.17	1981	.56	1979
Jul	1.63	1.34	2.02	1993	17	6.60	1993	.00	1973
Aug	1.43	1.06	1.57	1918	11	4.46	1976	.07	2000
Sep	1.60	1.62	2.15	1927	11	3.46	1986	.04	1990
Oct	2.30	1.82	1.70	1918	27	5.38	1990	.00	1974
Nov	4.75	4.80	2.17	1960	24	10.02	1973	1.44	1993
Dec	4.75	4.53	1.94	1966	13	8.80	1996	.66	1985
Ann	34.18	33.72	2.95	May 1998	27	10.02	Nov 1973	.00+	Oct 1974

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	13.9	9.8	2.7	.5
Feb	12.4	8.2	1.9	.5
Mar	13.1	8.1	1.3	.1
Apr	10.7	6.2	1.2	.2
May	12.5	7.4	1.2	.2
Jun	11.6	6.6	1.3	.2
Jul	7.3	4.2	.8	.2
Aug	6.5	4.0	.8	.1
Sep	7.5	4.2	.9	.1
Oct	9.6	5.7	1.4	.2
Nov	14.2	10.1	3.2	.8
Dec	15.1	10.4	3.6	.8
Ann	134.4	84.9	20.3	3.9

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	1.13	1.50	2.06	2.55	3.03	3.53	4.08	4.73	5.58	6.90	8.13
Feb	.86	1.19	1.69	2.14	2.58	3.05	3.57	4.19	5.00	6.28	7.48
Mar	.74	1.01	1.42	1.78	2.14	2.52	2.94	3.44	4.09	5.11	6.07
Apr	.72	.93	1.25	1.52	1.78	2.05	2.34	2.69	3.13	3.82	4.46
May	1.04	1.29	1.66	1.97	2.26	2.55	2.87	3.25	3.72	4.45	5.12
Jun	.75	.99	1.33	1.63	1.92	2.22	2.55	2.94	3.45	4.23	4.95
Jul	.07	.22	.46	.69	.95	1.24	1.58	2.00	2.58	3.54	4.47
Aug	.11	.21	.39	.59	.81	1.06	1.36	1.73	2.25	3.13	3.99
Sep	.11	.21	.42	.64	.88	1.17	1.51	1.94	2.55	3.57	4.58
Oct	.22	.49	.87	1.20	1.55	1.91	2.33	2.84	3.51	4.59	5.63
Nov	1.68	2.13	2.78	3.32	3.84	4.38	4.96	5.64	6.51	7.85	9.08
Dec	1.56	2.01	2.68	3.24	3.78	4.34	4.96	5.67	6.59	8.03	9.35
Ann	25.25	27.00	29.23	30.91	32.39	33.82	35.30	36.92	38.88	41.71	44.15

+ 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: 1910-2001
(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	19.0	18.8	9	6
Feb	12.7	10.9	7	4
Mar	3.2	1.7	3	#
Apr	.4	.0	#	0
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	.1	.0	#	0
Nov	6.9	4.4	1	#
Dec	20.6	16.1	5	2
Ann	62.9	51.9	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	1993	4	46.1	2000	31	1971	15	25	1993
Feb	10.0	1986	15	35.5	1975	34	1975	10	25	1975
Mar	4.5	1980	13	23.4	1997	23	1997	16	16	1993
Apr	2.3	2000	14	4.3	2000	10	1975	2	2	1975
May	.0	0	0	.0	0	0	0	0	0	0
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	2.0	1971	31	2.0	1971	2	1971	31	#+	1991
Nov	12.0	1996	20	34.7	1996	22	1996	24	8	1996
Dec	10.0	1971	14	61.4	1996	35	1996	30	23	1996
Ann	14.0	Jan 1993	4	61.4	Dec 1996	35	Dec 1996	30	25+	Jan 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.7	5.4	2.7	1.2	.1
Feb	5.4	4.0	1.9	.6	.1
Mar	2.2	1.2	.3	.0	.0
Apr	.3	.2	.0	.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	.1	.1	.0	.0	.0
Nov	2.9	1.9	.9	.3	.1
Dec	8.3	5.8	2.5	1.1	@
Ann	26.9	18.6	8.3	3.2	.3

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	24.1	19.5	15.8	9.3
Feb	15.7	12.3	8.8	5.6
Mar	5.5	3.2	2.4	1.8
Apr	.5	.3	.2	.1
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	@	.0	.0	.0
Nov	3.7	2.1	1.1	.6
Dec	16.0	10.1	7.6	3.7
Ann	65.5	47.5	35.9	21.1

+ 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

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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	7/01	6/24	6/18	6/13	6/09	6/05	5/31	5/26	5/18
32	6/04	5/29	5/25	5/22	5/19	5/16	5/12	5/08	5/03
28	5/14	5/09	5/05	5/02	4/28	4/25	4/22	4/18	4/12
24	4/24	4/18	4/14	4/10	4/07	4/03	3/31	3/27	3/21
20	4/06	3/28	3/23	3/18	3/13	3/08	3/03	2/25	2/17
16	3/23	3/14	3/08	3/03	2/26	2/21	2/16	2/10	2/02

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

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	119	108	101	94	88	82	76	68	58
32	144	136	131	126	121	117	112	107	99
28	185	176	170	164	159	153	148	141	132
24	225	214	206	200	193	187	181	173	162
20	277	264	254	246	239	231	223	214	201
16	314	300	290	282	273	265	257	246	232

***** 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	1224	975	858	592	368	187	87	89	290	632	938	1182	7422
60	1069	835	703	442	224	87	27	27	167	477	788	1027	5873
57	976	751	610	353	149	46	11	11	108	384	698	934	5031
55	914	695	548	296	108	26	6	5	76	323	638	872	4507
50	759	555	394	165	37	4	0	0	24	178	492	717	3325
32	269	139	28	0	0	0	0	0	0	1	98	221	756

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	67	89	192	398	656	823	1020	1005	710	393	150	62	5565
55	0	0	0	4	52	159	312	297	97	1	0	0	922
57	0	0	0	1	31	119	256	241	69	0	0	0	717
60	0	0	0	0	12	70	178	164	38	0	0	0	462
65	0	0	0	0	1	20	83	71	10	0	0	0	185
70	0	0	0	0	0	3	25	18	2	0	0	0	48

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	1	41	187	420	596	778	767	479	180	23	0	0	1	42	229	649	1245	2023	2790	3269	3449	3472	3472
45	0	0	4	86	269	447	623	612	331	77	4	0	0	0	4	90	359	806	1429	2041	2372	2449	2453	2453
50	0	0	0	31	146	299	469	457	197	20	0	0	0	0	0	31	177	476	945	1402	1599	1619	1619	1619
55	0	0	0	10	64	171	315	308	95	2	0	0	0	0	0	10	74	245	560	868	963	965	965	965
60	0	0	0	0	20	79	180	169	28	0	0	0	0	0	0	0	20	99	279	448	476	476	476	476
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	23	126	256	363	493	492	314	123	3	0	0	0	23	149	405	768	1261	1753	2067	2190	2193	2193

(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