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: GIBBONSVILLE, ID **COOP ID: 103554**

Climate Division: ID 8 **NWS Call Sign:** **Elevation: 4,480 Feet** **Lat: 45˚34N** **Lon: 113˚56W**

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	28.1	9.4	18.8	48	1978	18	27.5	1990	-33	1979	1	4.8	1979	1433	0	.0	.0	.0	18.7	30.9	8.0
Feb	35.3	13.1	24.2	55+	1986	27	31.1	1991	-26+	1989	5	12.8	1985	1143	0	.0	.0	1.3	8.3	28.1	4.0
Mar	45.5	21.2	33.4	73+	1978	29	40.8	1992	-9+	1976	5	25.3	1985	982	0	.0	.0	11.0	1.0	29.8	.4
Apr	55.6	27.3	41.5	85	1987	28	45.9	1987	8+	1975	2	35.6	1975	706	0	.0	.0	21.7	@	23.0	.0
May	64.6	33.7	49.2	94	1986	31	53.7	1992	16	1985	12	43.7	1974	491	0	.0	.2	28.7	.0	10.8	.0
Jun	73.2	39.8	56.5	100	1976	29	61.3+	1988	25	1984	1	51.9	1975	266	11	@	1.5	29.9	.0	2.3	.0
Jul	83.1	44.3	63.7	100	1985	7	67.9	1998	29	1971	7	55.6	1993	107	67	@	8.1	31.0	.0	.2	.0
Aug	81.8	42.9	62.4	99	1990	7	66.2	1991	21	1992	26	58.2	1975	124	43	.0	7.1	31.0	.0	.4	.0
Sep	71.9	35.6	53.8	98+	1988	4	59.6	1998	14	1965	18	47.9	1986	345	8	.0	1.0	29.4	.0	8.0	.0
Oct	58.0	27.8	42.9	85	1988	3	51.2	1988	0	1971	29	39.5	1995	686	0	.0	.0	24.2	.2	23.1	@
Nov	38.7	20.3	29.5	67	1988	1	36.2	1999	-20	1985	23	22.1	2000	1065	0	.0	.0	4.4	5.8	28.4	1.1
Dec	28.2	10.4	19.3	52+	1989	6	26.5	1980	-36+	1990	22	10.0	1985	1418	0	.0	.0	.1	19.5	30.9	6.0
Ann	55.3	27.2	41.3	100+	Jul 1985	7	67.9	Jul 1998	-36+	Dec 1990	22	4.8	Jan 1979	8766	129	.0	17.9	212.7	53.5	215.9	19.5

\+ 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: 1963-2001

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

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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	1.99	2.04	1.16	1964	20	3.65	1997	.43	1977
Feb	1.25	1.14	.98	1996	7	3.65	1986	.05+	1977
Mar	1.12	1.09	.80	1979	17	2.35	1984	.05	1978
Apr	1.15	1.18	.90	1975	26	2.57	1988	.00	1974
May	1.65	1.64	.93+	1969	20	3.35	1980	.40	1974
Jun	1.66	1.65	1.50	1986	8	3.78	1984	.03	1978
Jul	.91	.87	.94	1993	25	2.43	1993	.00+	1999
Aug	.93	.75	1.10	1976	23	2.99	1990	.20	1995
Sep	.88	.75	1.41	1966	15	3.20	1986	.00+	1987
Oct	.74	.55	.85	1990	22	2.52	1975	.00+	1987
Nov	1.60	1.38	1.50	1977	25	5.24	1995	.15	1974
Dec	1.82	1.52	1.12	1964	22	4.98	1996	.46	1985
Ann	15.70+	15.93+	1.50+	Jun 1986	8	5.24	Nov 1995	.00+	Jul 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.1	6.6	.5	.0
Feb	8.8	4.2	.4	.0
Mar	9.1	3.9	.1	.0
Apr	9.2	3.7	.3	.0
May	10.9	5.6	.4	.0
Jun	9.8	5.1	.8	.1
Jul	6.2	2.6	.3	.0
Aug	6.4	2.9	.4	@
Sep	6.0	2.7	.3	.0
Oct	6.2	2.7	.2	.0
Nov	10.9	5.0	.6	.1
Dec	11.9	6.2	.5	.0
Ann	107.5	51.2	4.8	.2

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	.65	.84	1.12	1.35	1.58	1.81	2.07	2.37	2.76	3.35	3.91
Feb	.19	.30	.48	.65	.83	1.03	1.25	1.52	1.89	2.49	3.06
Mar	.29	.39	.56	.70	.84	.99	1.16	1.36	1.61	2.02	2.40
Apr	.11	.24	.43	.60	.77	.95	1.16	1.42	1.75	2.30	2.82
May	.49	.65	.88	1.08	1.28	1.48	1.71	1.98	2.32	2.86	3.36
Jun	.21	.34	.58	.81	1.05	1.33	1.64	2.03	2.56	3.43	4.28
Jul	.00	.00	.43	.61	.75	.88	1.02	1.18	1.38	1.68	1.96
Aug	.16	.24	.37	.50	.63	.78	.94	1.14	1.41	1.84	2.25
Sep	.00	.00	.14	.30	.46	.64	.85	1.11	1.46	2.03	2.60
Oct	.00	.08	.21	.33	.45	.58	.74	.92	1.17	1.58	1.98
Nov	.28	.42	.66	.88	1.10	1.34	1.62	1.95	2.39	3.11	3.80
Dec	.50	.67	.93	1.16	1.39	1.62	1.88	2.19	2.59	3.22	3.81
Ann	9.74	10.83	12.26	13.37	14.37	15.35	16.37	17.51	18.92	20.98	22.79

\+ 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: 1963-2001
(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	25.0	26.5	22	20
Feb	12.1	11.4	23	21
Mar	7.8	6.8	12	12
Apr	3.2	1.3	1	#
May	.3	.0	#	0
Jun	#	.0	#	0
Jul	.0	.0	0	0
Aug	#	.0	0	0
Sep	#	.0	#	0
Oct	.7	.0	#	0
Nov	12.2	11.0	2	1
Dec	21.9	15.0	12	10
Ann	83.2	72.0	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	10.0	1976	9	39.5	1979	62	1979	31	52	1978
Feb	9.0	1979	7	28.3	1972	78	1979	7	58	1979
Mar	6.0	1975	1	18.5	1997	49	1976	6	35	1976
Apr	8.0	1975	26	23.0	1975	27	1975	4	13	1975
May	3.5	1996	4	3.5	1996	4	1996	4	#+	2000
Jun	#	1976	22	#+	1976	#	1976	22	#	1976
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	#	1977	31	#	1977	0	0	0	0	0
Sep	#	1972	24	#	1972	1	1999	28	#	1999
Oct	3.0	1971	31	4.6	1984	4	1984	29	#+	1997
Nov	12.0	1988	28	29.0	1995	21	1975	30	5	1988
Dec	10.0	1983	29	69.0	1996	45	1978	31	33	1978
Ann	12.0	Nov 1988	28	69.0	Dec 1996	78	Feb 1979	7	58	Feb 1979

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	10.8	8.8	3.5	1.1	@
Feb	6.2	4.8	1.5	.4	.0
Mar	4.3	3.2	.8	.1	.0
Apr	1.7	1.1	.2	.1	.0
May	.1	.1	.1	.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	.4	@	.0	.0
Nov	6.6	5.2	1.9	.7	.1
Dec	9.7	8.0	2.8	1.0	.1
Ann	39.8	31.6	10.8	3.4	.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	29.9	29.9	29.2	26.5
Feb	27.6	27.6	26.9	24.2
Mar	21.8	18.6	15.5	9.4
Apr	1.8	.9	.6	.3
May	.1	.1	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.3	.0	.0	.0
Nov	11.9	6.8	4.2	.8
Dec	29.4	24.9	21.3	12.8
Ann	122.8	108.8	97.7	74.0

+ 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	7/23	7/17	7/12	7/08	7/05	7/01	6/27	6/23	6/16
32	7/07	6/30	6/25	6/21	6/17	6/13	6/08	6/03	5/27
28	6/19	6/11	6/05	5/31	5/27	5/22	5/17	5/11	5/04
24	5/21	5/15	5/11	5/07	5/04	4/30	4/27	4/22	4/16
20	5/02	4/26	4/21	4/17	4/14	4/10	4/06	4/01	3/26
16	4/19	4/11	4/05	3/31	3/26	3/21	3/16	3/11	3/02

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

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	80	70	63	58	52	47	41	34	25
32	108	98	92	86	81	75	70	63	54
28	145	135	127	121	115	109	102	94	84
24	177	168	162	156	151	146	140	133	124
20	213	204	197	191	186	181	175	168	159
16	249	237	228	221	214	207	200	191	180

***** 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	1433	1143	982	706	491	266	107	124	345	686	1065	1418	8766
60	1278	1003	827	556	340	147	38	47	217	531	915	1263	7162
57	1185	919	734	466	255	93	17	21	154	439	825	1170	6278
55	1123	863	672	407	203	65	9	11	118	379	765	1108	5723
50	968	723	517	266	100	19	1	1	51	238	615	953	4452
32	434	261	83	7	0	0	0	0	0	5	157	422	1369

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	24	42	124	291	532	735	983	941	654	343	83	27	4779
55	0	0	0	1	23	110	279	240	82	3	0	0	738
57	0	0	0	0	13	78	224	187	57	1	0	0	560
60	0	0	0	0	4	42	153	120	31	0	0	0	350
65	0	0	0	0	0	11	67	43	8	0	0	0	129
70	0	0	0	0	0	1	18	9	1	0	0	0	29

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	20	127	321	531	743	744	456	164	6	0	0	0	20	147	468	999	1742	2486	2942	3106	3112	3112
45	0	0	0	57	192	384	588	589	316	77	0	0	0	0	0	57	249	633	1221	1810	2126	2203	2203	2203
50	0	0	0	16	95	245	435	434	192	27	0	0	0	0	0	16	111	356	791	1225	1417	1444	1444	1444
55	0	0	0	0	34	131	293	286	91	4	0	0	0	0	0	0	34	165	458	744	835	839	839	839
60	0	0	0	0	5	57	159	150	30	0	0	0	0	0	0	0	5	62	221	371	401	401	401	401
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	38	128	248	368	484	500	352	165	10	0	0	0	38	166	414	782	1266	1766	2118	2283	2293	2293

(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