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: DRIGGS, ID **COOP ID: 102676**

Climate Division: ID10 **NWS Call Sign:** **Elevation: 6,286 Feet** **Lat: 43˚44N** **Lon: 111˚07W**

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	28.7	8.3	18.5	60	1974	16	25.2	1998	-44	1937	21	7.3	1979	1443	0	.0	.0	.1	18.4	30.5	9.2
Feb	33.1	11.4	22.3	60	1963	6	29.8	1992	-50	1933	9	13.0	1985	1197	0	.0	.0	.8	10.1	27.7	6.8
Mar	40.2	19.1	29.7	69	1986	28	37.7	1992	-22+	1956	12	21.6	1976	1096	0	.0	.0	5.0	2.7	29.3	1.6
Apr	51.0	26.5	38.8	79+	1987	27	45.2	1992	-9	1936	5	30.4	1975	787	0	.0	.0	16.9	.1	24.1	.1
May	61.6	33.8	47.7	87	1954	19	53.4	1992	8	1967	1	43.8	1975	537	0	.0	.0	27.6	.0	13.8	.0
Jun	71.2	40.8	56.0	93	1940	19	62.0	1988	21	1937	5	50.5	1998	278	8	.0	.2	29.8	.0	3.0	.0
Jul	78.8	46.3	62.6	97	1931	24	66.0	1975	27	1943	13	54.4	1993	126	50	.0	.8	31.0	.0	.3	.0
Aug	78.2	44.8	61.5	96	1949	2	64.8	2000	24+	1992	26	57.0	1993	137	28	.0	.6	31.0	.0	.6	.0
Sep	68.8	36.6	52.7	94	1950	4	57.7	1990	9+	1985	30	47.3	1986	374	4	.0	.0	29.0	.0	8.6	.0
Oct	56.6	27.8	42.2	82	1957	1	48.4	1988	-7	1971	29	35.8	1984	708	0	.0	.0	23.5	.5	22.8	.1
Nov	39.7	18.4	29.1	71+	1999	15	37.9	1999	-23+	1955	16	21.8	2000	1079	0	.0	.0	5.6	7.1	28.0	2.3
Dec	29.8	8.8	19.3	65	1939	6	27.9	1980	-40	1990	22	9.4	1990	1417	0	.0	.0	.4	18.0	30.3	8.7
Ann	53.1	26.9	40.0	97	Jul 1931	24	66.0	Jul 1975	-50	Feb 1933	9	7.3	Jan 1979	9179	90	.0	1.6	200.7	56.9	219.0	28.8

\+ 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: 1930-2001

(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	1.30	1.32	1.00	1956	14	2.60	1999	.20	1992
Feb	1.04	.89	1.05	1949	10	2.55	1986	.15	1990
Mar	1.25	1.11	.88	1995	21	3.05	1976	.07	1994
Apr	1.33	1.08	.97	1986	9	3.42	1986	.31	1985
May	2.14	1.75	1.34	1935	18	4.17	1981	.91	1992
Jun	1.30	1.17	2.20	1945	23	3.28	1976	.11	1996
Jul	1.28	1.15	1.05	2001	10	3.13	1982	.05	1988
Aug	1.04	1.06	1.08	1978	13	2.42	1973	.01	1985
Sep	1.15	1.03	1.30	1966	14	3.08	1973	.00+	1993
Oct	1.23	.82	1.50	1940	29	3.42	1994	.07	1988
Nov	1.22	1.16	.70	1938	3	2.75	1988	.07	1999
Dec	1.45	1.24	1.09	1955	23	5.12	1996	.15	1989
Ann	15.73	14.84	2.20	Jun 1945	23	5.12	Dec 1996	.00+	Sep 1993

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.7	5.9	.3	.0
Feb	8.4	4.1	.2	.0
Mar	8.4	4.3	.3	.0
Apr	8.3	5.1	.3	.0
May	10.2	6.6	1.1	.0
Jun	7.0	4.6	.5	.0
Jul	6.3	4.0	.7	@
Aug	6.6	3.6	.3	@
Sep	6.3	3.4	.5	.0
Oct	6.7	4.1	.5	.1
Nov	9.5	5.5	.3	.0
Dec	9.0	5.7	.4	.0
Ann	96.4	56.9	5.4	.1

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	.34	.47	.66	.82	.98	1.15	1.34	1.57	1.86	2.32	2.75
Feb	.23	.32	.47	.61	.75	.90	1.06	1.26	1.52	1.93	2.33
Mar	.22	.33	.52	.69	.86	1.05	1.26	1.52	1.87	2.43	2.96
Apr	.33	.46	.65	.82	.99	1.17	1.37	1.60	1.91	2.40	2.85
May	.75	.95	1.25	1.50	1.73	1.98	2.24	2.55	2.94	3.55	4.11
Jun	.17	.28	.47	.65	.84	1.05	1.29	1.59	1.99	2.65	3.29
Jul	.17	.27	.46	.64	.82	1.03	1.27	1.57	1.97	2.62	3.26
Aug	.12	.20	.35	.49	.65	.82	1.02	1.27	1.61	2.17	2.72
Sep	.00	.09	.28	.46	.66	.87	1.12	1.42	1.84	2.54	3.22
Oct	.14	.23	.40	.57	.75	.96	1.20	1.50	1.90	2.57	3.23
Nov	.22	.33	.51	.67	.84	1.03	1.23	1.49	1.82	2.36	2.88
Dec	.24	.37	.58	.78	.99	1.21	1.46	1.77	2.18	2.85	3.49
Ann	9.78	10.88	12.30	13.41	14.41	15.39	16.40	17.54	18.94	21.00	22.80

\+ 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: 1930-2001
(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	14.2	13.5	14	14
Feb	10.6	8.3	16	15
Mar	12.4	14.0	9	8
Apr	3.5	3.0	1	#
May	3.2	1.8	#	0
Jun	.5	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.5	.0	#	0
Oct	2.4	2.0	#	0
Nov	12.0	11.8	2	1
Dec	15.9	13.0	8	8
Ann	75.2	67.4	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	12.0	1980	9	29.5	1974	36	1996	30	25	1985
Feb	9.0	1975	13	28.0	1975	39	1985	8	32	1985
Mar	8.0	1974	8	24.6	1989	38	1985	6	32	1985
Apr	10.0	1991	25	11.0	1996	25	1985	1	8	1975
May	7.0	1975	6	17.5	1975	6	1988	7	#+	2000
Jun	4.0	1974	7	4.0	1974	2	1976	15	#	1976
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	5.0	1978	18	5.0+	1978	5	1971	30	#+	1999
Oct	7.0	1989	28	7.0	1984	6	1989	29	1	1984
Nov	8.0	1990	5	22.5	1984	17	1985	25	7	1977
Dec	10.0	1972	4	36.0	1978	26	1984	31	16+	1985
Ann	12.0	Jan 1980	9	36.0	Dec 1978	39	Feb 1985	8	32+	Mar 1985

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.5	6.5	2.4	.7	.1
Feb	4.8	4.2	1.4	.3	.0
Mar	3.7	3.5	1.4	.6	.0
Apr	2.3	1.9	.7	.2	.0
May	1.1	1.0	.4	.1	.0
Jun	.2	.2	@	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.2	.2	.1	@	.0
Oct	1.4	1.2	.3	.1	.0
Nov	4.8	4.4	1.3	.3	.0
Dec	6.2	5.6	2.1	.7	@
Ann	32.2	28.7	10.1	3.0	.1

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	1.4	1.2	.5	.3
May	.4	.3	.1	.0
Jun	@	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.1	@	@	.0
Oct	.7	.2	.0	.0
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	7/22	7/16	7/12	7/09	7/06	7/02	6/29	6/25	6/20
32	7/12	7/06	7/02	6/28	6/24	6/21	6/17	6/12	6/06
28	6/16	6/10	6/06	6/02	5/30	5/26	5/22	5/18	5/12
24	5/28	5/22	5/18	5/15	5/11	5/08	5/04	4/30	4/24
20	5/17	5/11	5/07	5/04	5/01	4/27	4/24	4/20	4/14
16	5/04	4/27	4/23	4/19	4/16	4/12	4/08	4/04	3/28

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

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	74	65	58	53	47	42	36	29	20
32	95	87	81	75	70	65	60	54	45
28	132	124	118	112	108	103	97	91	83
24	160	151	145	139	134	129	124	118	109
20	182	174	168	163	159	154	149	144	135
16	217	207	200	194	188	182	176	169	159

***** 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	1443	1197	1096	787	537	278	126	137	374	708	1079	1417	9179
60	1288	1057	941	637	383	154	49	50	240	553	929	1262	7543
57	1195	973	848	547	293	97	22	22	172	461	839	1169	6638
55	1133	917	786	488	238	67	12	11	133	400	779	1107	6071
50	978	777	631	348	120	18	1	1	60	257	629	952	4772
32	437	294	158	35	0	0	0	0	0	9	177	420	1530

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	17	20	85	238	486	720	948	914	620	324	87	26	4485
55	0	0	0	1	10	97	247	212	63	2	0	0	632
57	0	0	0	0	4	67	195	161	42	1	0	0	470
60	0	0	0	0	1	35	129	96	20	0	0	0	281
65	0	0	0	0	0	8	50	28	4	0	0	0	90
70	0	0	0	0	0	1	12	4	0	0	0	0	17

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	8	89	268	503	715	693	405	148	13	0	0	0	8	97	365	868	1583	2276	2681	2829	2842	2842
45	0	0	0	35	149	356	560	538	269	67	0	0	0	0	0	35	184	540	1100	1638	1907	1974	1974	1974
50	0	0	0	12	63	221	406	383	153	20	0	0	0	0	0	12	75	296	702	1085	1238	1258	1258	1258
55	0	0	0	0	17	108	257	234	65	2	0	0	0	0	0	0	17	125	382	616	681	683	683	683
60	0	0	0	0	0	36	125	104	16	0	0	0	0	0	0	0	0	36	161	265	281	281	281	281
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	1	13	86	209	342	477	465	309	151	18	0	0	1	14	100	309	651	1128	1593	1902	2053	2071	2071

(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