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: REYNOLDS, ID **COOP ID: 107648**

Climate Division: ID 6 **NWS Call Sign:** **Elevation: 3,930 Feet** **Lat: 43˚12N** **Lon: 116˚45W**

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	38.9	19.6	29.3	62	1971	20	37.1	1998	-24	1962	22	17.0	1979	1109	0	.0	.0	3.4	7.4	27.4	1.7
Feb	44.0	23.4	33.7	70	1977	21	39.5	1992	-13+	1989	7	24.9	1989	878	0	.0	.0	8.1	2.7	24.6	.8
Mar	51.0	27.7	39.4	78+	1997	19	45.2	1986	-2	1976	2	32.8	1976	794	0	.0	.0	17.4	.5	23.2	.1
Apr	58.9	32.3	45.6	87+	1992	30	52.4	1987	12	1963	18	37.9	1975	582	0	.0	.0	24.5	.0	14.6	.0
May	67.3	39.2	53.3	94	1986	31	60.0	1992	20+	1975	25	47.3	1977	371	6	.0	.2	29.9	.0	4.9	.0
Jun	76.9	45.5	61.2	102	1988	24	67.9	1986	27+	1996	19	56.7	1980	167	52	.1	3.6	30.0	.0	.7	.0
Jul	85.7	51.8	68.8	103+	1998	17	74.0	1985	32	1981	8	60.6	1993	49	165	.5	11.1	31.0	.0	@	.0
Aug	85.5	50.9	68.2	105	1990	9	72.8	1971	32	1964	29	61.5	1976	54	153	.2	11.1	31.0	.0	.0	.0
Sep	74.8	41.5	58.2	98+	2000	14	64.5	1990	19	1984	25	51.2	1985	240	34	.0	1.5	29.9	.0	3.3	.0
Oct	63.3	32.3	47.8	93	1992	1	55.7	1988	12+	1996	17	42.4	1984	535	0	.0	@	28.0	@	14.3	.0
Nov	48.0	24.9	36.5	75	1980	7	44.0	1999	-7	1985	23	28.7	1985	858	0	.0	.0	12.5	1.3	24.1	.2
Dec	39.4	18.9	29.2	65	1976	9	36.8	1996	-22	1972	10	18.0	1990	1112	0	.0	.0	4.3	6.3	27.6	2.0
Ann	61.1	34.0	47.6	105	Aug 1990	9	74.0	Jul 1985	-24	Jan 1962	22	17.0	Jan 1979	6749	410	.8	27.5	250.0	18.2	164.7	4.8

\+ 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: 1961-2001

(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	1.18	1.00	1.25	1982	1	2.96	1982	.00	1985
Feb	.92	.89	.77	1994	8	2.45	1986	.17	1992
Mar	1.11	.96	.73	1971	13	2.31	1993	.21	1992
Apr	.94	.79	2.38	1973	14	2.98	1978	.24	1977
May	1.30	.98	1.59	1983	1	5.02	1998	.16+	1974
Jun	.99	.91	1.03	1967	8	2.44	1971	.00	1979
Jul	.38	.30	.84	1975	22	1.14	1995	.00	1972
Aug	.46	.25	1.34	1968	10	2.32	1979	.00	1992
Sep	.61	.40	1.36	1997	2	2.46	1980	.00+	1999
Oct	.77	.65	1.24	1975	7	3.00	1975	.00+	1998
Nov	1.09	.98	1.06	1967	19	2.79	1988	.13	1976
Dec	1.15	.73	1.25	1980	23	4.23	1996	.04	1976
Ann	10.90	10.08	2.38	Apr 1973	14	5.02	May 1998	.00+	Sep 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.9	3.5	.3	.1
Feb	8.9	3.2	.1	.0
Mar	10.2	3.7	.2	.0
Apr	9.2	3.1	.2	.1
May	8.3	3.8	.5	.1
Jun	6.6	3.1	.3	.0
Jul	3.5	1.2	.1	.0
Aug	3.4	1.3	.2	.0
Sep	4.1	1.8	.2	@
Oct	5.1	2.5	.3	@
Nov	9.3	3.8	.3	.0
Dec	9.6	3.4	.4	@
Ann	88.1	34.4	3.1	.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	.19	.35	.55	.71	.87	1.04	1.22	1.45	1.73	2.19	2.62
Feb	.22	.31	.44	.56	.68	.81	.95	1.12	1.34	1.69	2.01
Mar	.31	.42	.58	.72	.85	1.00	1.15	1.34	1.58	1.96	2.31
Apr	.24	.33	.47	.59	.71	.83	.97	1.14	1.36	1.70	2.03
May	.14	.24	.41	.59	.79	1.01	1.26	1.58	2.02	2.74	3.44
Jun	.05	.14	.29	.44	.59	.77	.97	1.22	1.57	2.14	2.70
Jul	.01	.03	.08	.13	.20	.27	.35	.47	.62	.89	1.15
Aug	.00	.02	.06	.12	.19	.28	.39	.54	.75	1.13	1.51
Sep	.00	.00	.04	.12	.22	.35	.51	.73	1.04	1.57	2.12
Oct	.00	.00	.24	.40	.54	.68	.82	1.00	1.23	1.58	1.91
Nov	.21	.31	.47	.61	.76	.92	1.10	1.32	1.61	2.08	2.52
Dec	.07	.14	.29	.44	.62	.82	1.07	1.39	1.83	2.58	3.33
Ann	6.43	7.24	8.30	9.13	9.88	10.62	11.40	12.27	13.34	14.93	16.33

\+ 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: 1961-2001
(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	2.1	1.8	1	#	4.0	1977	3	6.0	1977	6	1993	14	2	1993	1.4	.9	.2	.0	.0	2.5	.9	.2	.0
Feb	3.7	1.8	#	#	9.0	1994	8	15.7	1994	11	1994	11	3	1994	1.4	1.0	.2	.2	.0	2.6	1.1	.5	.1
Mar	2.2	.0	#	#	7.0	1971	17	7.0+	1974	7	1974	8	1	1976	.6	.4	.2	.1	.0	.8	.3	.2	.0
Apr	1.0	.0	#	0	6.0	1975	10	8.0	1975	6	1975	10	#+	1996	.4	.4	@	@	.0	.3	@	@	.0
May	.0	.0	#	0	.8	1977	5	.8	1977	#+	1977	5	#+	1977	@	.0	.0	.0	.0	.0	.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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.4	.0	#	0	3.0	1971	17	6.0	1971	3	1971	17	#	1971	.2	.2	@	.0	.0	.1	@	.0	.0
Nov	1.4	.0	#	0	5.0	1972	19	5.0	1972	5	1972	19	#+	1997	.8	.4	.1	.1	.0	.4	.1	@	.0
Dec	3.2	1.0	#	#	6.0	1972	4	12.0	1972	7	1972	15	3	1972	1.4	1.1	.4	.1	.0	4.2	1.5	.8	.0
Ann	14.0	4.6	N/A	N/A	9.0	Feb 1994	8	15.7	Feb 1994	11	Feb 1994	11	3+	Feb 1994	6.2	4.4	1.1	.5	.0	10.9	3.9	1.7	.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	7/09	7/02	6/27	6/23	6/19	6/15	6/10	6/05	5/29
32	6/24	6/15	6/09	6/03	5/29	5/24	5/19	5/13	5/04
28	6/04	5/26	5/21	5/16	5/11	5/06	5/02	4/26	4/18
24	5/09	5/01	4/26	4/21	4/16	4/11	4/06	4/01	3/24
20	4/29	4/19	4/12	4/06	3/31	3/26	3/20	3/13	3/03
16	4/01	3/21	3/13	3/06	2/28	2/22	2/15	2/07	1/27

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

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	111	101	94	88	82	77	71	64	54
32	146	135	127	121	114	108	101	93	83
28	180	169	160	154	147	140	134	125	114
24	215	204	196	188	182	175	168	160	148
20	247	234	226	218	211	204	196	188	175
16	293	280	270	262	254	246	238	228	215

***** 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:
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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	1109	878	794	582	371	167	49	54	240	535	858	1112	6749
60	954	738	639	438	236	84	15	17	139	383	708	957	5308
57	861	654	547	356	168	49	6	7	93	296	618	864	4519
55	799	598	486	303	131	31	3	3	67	244	558	802	4025
50	648	458	339	190	58	9	0	0	25	131	417	648	2923
32	199	79	22	7	0	0	0	0	0	1	67	196	571

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	113	126	250	415	658	875	1139	1123	784	490	199	107	6279
55	0	0	1	21	76	217	428	413	161	19	0	0	1336
57	0	0	0	13	52	174	370	354	126	10	0	0	1099
60	0	0	0	6	26	119	285	271	83	4	0	0	794
65	0	0	0	0	6	52	165	153	34	0	0	0	410
70	0	0	0	0	0	17	80	71	11	0	0	0	179

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	12	28	82	207	427	655	907	896	568	281	63	18	12	40	122	329	756	1411	2318	3214	3782	4063	4126	4144
45	0	2	29	111	285	506	752	741	419	163	21	1	0	2	31	142	427	933	1685	2426	2845	3008	3029	3030
50	0	0	4	47	167	362	597	586	288	79	4	0	0	0	4	51	218	580	1177	1763	2051	2130	2134	2134
55	0	0	0	15	84	232	444	433	173	29	0	0	0	0	0	15	99	331	775	1208	1381	1410	1410	1410
60	0	0	0	2	34	129	299	288	83	5	0	0	0	0	0	2	36	165	464	752	835	840	840	840
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	1	21	67	153	282	418	575	569	385	222	50	9	1	22	89	242	524	942	1517	2086	2471	2693	2743	2752

(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