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: STANLEY, ID **COOP ID: 108676**

Climate Division: ID 4 **NWS Call Sign:** **Elevation: 6,271 Feet** **Lat: 44˚13N** **Lon: 114˚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	27.0	-1.7	12.7	54	1971	30	19.8	1998	-46	1978	1	1.8	1979	1626	0	.0	.0	.1	21.0	30.9	16.2
Feb	33.9	-.6	16.7	56	1977	21	26.2	1986	-47	1982	5	5.8	1985	1355	0	.0	.0	.5	11.5	28.1	12.1
Mar	42.3	8.5	25.4	62+	1994	30	32.8	1992	-31	1966	4	17.9	1985	1228	0	.0	.0	5.8	3.1	30.7	5.6
Apr	49.7	19.2	34.5	77+	1987	29	40.9	1987	-16	1982	2	26.3	1982	917	0	.0	.0	14.7	.4	27.5	.5
May	59.0	28.4	43.7	84+	1986	31	48.0	1993	8+	1982	6	39.7	1975	660	0	.0	.0	25.5	.0	22.6	.0
Jun	68.1	34.2	51.2	91+	1988	26	56.6	1977	15	1976	26	47.6	1975	417	0	.0	.8	29.2	.0	13.8	.0
Jul	77.8	36.6	57.2	96	1964	18	61.2	1985	15	1968	6	49.4	1993	250	7	@	1.9	31.0	.0	7.4	.0
Aug	77.6	34.6	56.1	97	1996	13	59.9	1983	16+	1992	26	52.4	1980	280	4	.0	1.8	31.0	.0	13.2	.0
Sep	68.4	27.7	48.1	89	1988	4	53.7	1990	9+	1999	29	43.6	1971	509	0	.0	@	28.5	.0	22.9	.0
Oct	56.3	21.8	39.1	80+	1996	10	44.8	1988	-10+	1991	30	34.8	1984	804	0	.0	.0	22.3	.3	28.0	.1
Nov	37.8	12.6	25.2	66+	1988	2	31.6	1999	-26+	1994	22	16.1	2000	1194	0	.0	.0	4.2	7.7	29.1	4.8
Dec	26.0	-1.0	12.5	50	1965	4	21.8	1980	-54	1983	23	3.8	1990	1630	0	.0	.0	.1	21.8	30.8	15.8
Ann	52.0	18.4	35.2	97	Aug 1996	13	61.2	Jul 1985	-54	Dec 1983	23	1.8	Jan 1979	10870	11	@	4.5	192.9	65.8	285.0	55.1

\+ 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: 1963-2001

(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	1.66	1.51	1.83	1980	11	4.67	1980	.17	1984
Feb	1.54	1.22	2.00	1986	18	6.76	1986	.24	1977
Mar	1.19	.97	1.22	1995	10	3.33	1989	.00	1999
Apr	1.07	.88	1.16	1990	28	3.37	1992	.00	1998
May	1.24	1.07	1.25	1993	4	2.65	1996	.00+	1997
Jun	1.20	1.21	1.34	1970	29	2.94	1993	.11	1989
Jul	.73	.55	1.00	1965	1	2.21	1982	.00+	2000
Aug	.76	.65	.87	1973	3	2.68	1983	.00+	2000
Sep	.88	.71	1.00	2000	1	3.10	1986	.00+	1999
Oct	1.14	1.02	1.00	1993	8	3.99	1975	.00+	1999
Nov	1.55	1.13	1.60	1995	12	4.56	1995	.00	1982
Dec	2.03	1.58	2.00+	2001	3	6.39	1996	.19	1997
Ann	14.99+	13.98+	2.00+	Dec 2001	3	6.76	Feb 1986	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.8	5.5	.7	.2
Feb	8.7	5.1	.6	.2
Mar	8.0	4.3	.3	@
Apr	6.1	3.1	.4	@
May	7.5	3.9	.4	@
Jun	7.4	4.0	.6	.1
Jul	4.9	2.4	.3	.0
Aug	4.2	2.1	.2	.0
Sep	5.4	2.7	.3	@
Oct	5.8	3.2	.3	.1
Nov	9.4	5.7	.5	.1
Dec	10.3	5.7	.6	@
Ann	87.5	47.7	5.2	.7

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	.30	.45	.69	.92	1.15	1.39	1.68	2.02	2.48	3.21	3.91
Feb	.29	.43	.66	.87	1.08	1.31	1.57	1.88	2.30	2.96	3.60
Mar	.15	.30	.50	.67	.84	1.02	1.22	1.47	1.79	2.30	2.79
Apr	.03	.11	.26	.41	.58	.78	1.01	1.30	1.71	2.39	3.07
May	.00	.27	.52	.72	.90	1.09	1.31	1.54	1.87	2.38	2.86
Jun	.19	.30	.47	.64	.81	.99	1.20	1.46	1.80	2.36	2.90
Jul	.00	.00	.13	.30	.45	.59	.76	.95	1.21	1.60	2.02
Aug	.00	.00	.00	.24	.41	.58	.77	.99	1.29	1.79	2.25
Sep	.00	.00	.09	.27	.45	.64	.86	1.12	1.49	2.08	2.69
Oct	.00	.05	.21	.37	.56	.78	1.05	1.39	1.86	2.67	3.48
Nov	.06	.19	.42	.64	.89	1.17	1.50	1.91	2.47	3.42	4.34
Dec	.19	.34	.61	.89	1.20	1.55	1.96	2.48	3.19	4.37	5.53
Ann	7.97	9.18	10.80	12.10	13.28	14.45	15.69	17.10	18.84	21.45	23.77

\+ 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

Complete documentation available from:
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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	16.8	14.6	18	15
Feb	12.1	11.0	16	14
Mar	11.1	8.5	14	10
Apr	4.9	2.5	6	1
May	.6	.0	#	0
Jun	.2	.0	#	0
Jul	#	.0	0	0
Aug	#	.0	0	0
Sep	.3	.0	#	0
Oct	1.9	.4	#	0
Nov	9.1	9.7	2	1
Dec	12.0	10.9	9	6
Ann	69.0	57.6	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	1980	9	37.0	1980	95	1993	31	73	1993
Feb	20.0	1986	18	23.5	1975	48	1986	18	34	1985
Mar	7.0	1973	17	37.5	1989	46	1993	1	36	1980
Apr	8.0	1980	9	18.0	1980	49	1980	9	36	1982
May	4.0	1977	8	4.0	2000	23	1982	1	5	1982
Jun	2.8	1995	6	2.8	1995	1	1982	5	#+	1993
Jul	#	1994	6	#	1994	0	0	0	0	0
Aug	#	1980	16	#	1980	0	0	0	0	0
Sep	2.5	1971	30	2.5	1971	3	1986	26	#+	1997
Oct	7.0	1977	30	7.0	1977	7	1977	31	1	1977
Nov	7.0	1983	20	15.0	1985	21	1984	29	8	1984
Dec	8.0	1983	30	22.1	1987	33	1983	31	23	1984
Ann	20.0	Feb 1986	18	37.5	Mar 1989	95	Jan 1993	31	73	Jan 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.4	5.2	1.6	.5	.2
Feb	7.1	5.5	1.6	.5	.1
Mar	4.7	3.7	1.3	.3	.0
Apr	2.4	1.6	.6	@	.0
May	.5	.5	.1	.0	.0
Jun	.2	.2	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.3	.2	.0	.0	.0
Oct	1.2	.5	.2	.1	.0
Nov	5.3	4.4	1.0	.2	.0
Dec	5.8	4.5	1.4	.4	.0
Ann	34.9	26.3	7.8	2.0	.3

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	-9.9	-9.9	-9.9	-9.9
May	.3	.1	.0	.0
Jun	.1	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.1	.0	.0	.0
Oct	.9	.2	.1	.0
Nov	8.4	3.7	2.0	.0
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	8/03	8/01	7/31	7/30	7/30	7/29	7/28	7/27	7/26
32	8/02	7/28	7/25	7/22	7/20	7/17	7/15	7/11	7/07
28	7/25	7/18	7/13	7/09	7/05	7/01	6/26	6/21	6/14
24	7/11	7/01	6/24	6/18	6/12	6/07	6/01	5/25	5/15
20	6/13	6/04	5/29	5/23	5/18	5/13	5/08	5/01	4/23
16	5/23	5/15	5/08	5/03	4/28	4/23	4/18	4/11	4/03

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	7/31	7/31	8/01	8/02	8/03	8/03	8/04	8/05	8/06
32	7/29	8/01	8/04	8/06	8/08	8/10	8/12	8/15	8/19
28	7/31	8/05	8/10	8/14	8/17	8/21	8/25	8/29	9/04
24	8/12	8/19	8/25	8/29	9/03	9/07	9/11	9/17	9/24
20	8/30	9/05	9/10	9/14	9/17	9/21	9/25	9/29	10/06
16	9/11	9/19	9/24	9/28	10/03	10/07	10/11	10/17	10/24

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9	7	6	4	3	2	1	0	0
32	38	31	26	22	18	15	11	6	0
28	74	63	56	49	43	37	30	22	12
24	123	109	98	90	82	73	65	54	40
20	152	141	134	127	121	115	109	102	91
16	191	179	171	164	157	150	143	135	123

***** 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	1626	1355	1228	917	660	417	250	280	509	804	1194	1630	10870
60	1471	1215	1073	767	505	273	126	148	361	649	1044	1475	9107
57	1378	1131	980	677	413	195	74	89	276	556	954	1382	8105
55	1316	1075	918	617	352	149	46	58	223	494	894	1320	7462
50	1161	935	763	470	211	63	10	14	113	341	744	1165	5990
32	610	443	251	80	3	0	0	0	0	17	257	618	2279

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	7	12	47	154	366	574	780	747	481	236	52	11	3467
55	0	0	0	0	2	33	113	92	14	0	0	0	254
57	0	0	0	0	0	18	79	61	7	0	0	0	165
60	0	0	0	0	0	7	38	27	2	0	0	0	74
65	0	0	0	0	0	0	7	4	0	0	0	0	11
70	0	0	0	0	0	0	0	0	0	0	0	0	0

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	0	40	172	358	557	518	267	90	1	0	0	0	0	40	212	570	1127	1645	1912	2002	2003	2003
45	0	0	0	10	79	225	402	366	147	31	0	0	0	0	0	10	89	314	716	1082	1229	1260	1260	1260
50	0	0	0	1	24	115	253	220	61	8	0	0	0	0	0	1	25	140	393	613	674	682	682	682
55	0	0	0	0	1	45	125	99	13	0	0	0	0	0	0	0	1	46	171	270	283	283	283	283
60	0	0	0	0	0	7	41	23	0	0	0	0	0	0	0	0	0	7	48	71	71	71	71	71
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	10	59	167	301	441	446	289	146	11	0	0	0	10	69	236	537	978	1424	1713	1859	1870	1870

(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