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: FORT HALL 1 NNE, ID **COOP ID: 103297**

Climate Division: ID 9 **NWS Call Sign:** **Elevation: 4,465 Feet** **Lat: 43˚03N** **Lon: 112˚25W**

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	31.1	13.2	22.2	58	1974	16	31.3	1998	-34	1949	25	9.8	1979	1329	0	.0	.0	.7	14.5	29.3	5.8
Feb	37.5	17.6	27.6	66	1992	29	36.2	1992	-33	1985	1	14.3	1985	1048	0	.0	.0	3.7	6.9	26.4	2.4
Mar	47.4	24.8	36.1	76	1986	28	43.1	1992	-12	1960	2	23.5	1985	895	0	.0	.0	14.5	.8	24.9	.3
Apr	57.2	30.5	43.9	86	1949	27	49.3	1987	11	1975	1	35.9	1975	636	0	.0	.0	24.4	@	16.8	.0
May	66.1	37.8	52.0	93+	1986	31	58.1	1992	17+	2000	1	47.9	1978	406	2	.0	.1	29.6	.0	4.7	.0
Jun	75.6	44.4	60.0	100	1974	15	67.2	1988	25	1999	9	54.8	1998	181	31	@	2.5	29.9	.0	.6	.0
Jul	84.2	48.7	66.5	103	1959	23	70.9	1988	32	1968	1	60.2	1993	55	100	.0	8.8	31.0	.0	.0	.0
Aug	84.1	47.1	65.6	103	2001	7	69.2	2000	29	1992	25	61.3	1975	72	90	.1	8.8	31.0	.0	.2	.0
Sep	74.2	39.0	56.6	98+	1976	5	62.6	1990	14	1983	20	51.7	1971	267	16	.0	1.4	29.7	.0	3.7	.0
Oct	61.4	29.9	45.7	90	1992	2	53.8	1988	8	1997	25	41.0	1984	599	0	.0	@	26.7	@	17.0	.0
Nov	43.6	22.0	32.8	74+	1999	6	39.5	1999	-20	1993	26	23.7	2000	965	0	.0	.0	9.3	4.2	25.0	.8
Dec	32.4	13.5	23.0	63+	1995	1	30.2	1980	-30	1990	23	11.5	1985	1303	0	.0	.0	1.2	13.5	29.3	3.8
Ann	57.9	30.7	44.3	103+	Aug 2001	7	70.9	Jul 1988	-34	Jan 1949	25	9.8	Jan 1979	7756	239	.1	21.6	231.7	39.9	177.9	13.1

\+ 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: 1948-2001

(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	.94	.82	.90	1980	14	2.46	1980	.17	1992
Feb	.91	.99	.80	1974	19	1.97	1986	.04	1977
Mar	1.17	1.11	.97	1995	21	2.80	1983	.03	1994
Apr	1.08	.83	1.10	1984	20	2.78	1976	.13	1987
May	1.63	1.24	1.63	1970	21	4.75	1981	.22	1992
Jun	1.00	.85	1.05	1984	10	3.41	1995	.04	1996
Jul	.68	.35	1.66	1984	29	2.68	1984	.00+	1990
Aug	.77	.54	1.26	1984	16	2.46	1982	.00	1992
Sep	.84	.59	1.20	1972	27	2.66	1998	.00+	1987
Oct	1.06	.95	1.25	1961	21	2.98	1971	.00	1988
Nov	.99	1.01	.94	1988	14	2.53	1988	.00	1976
Dec	.95	.77	.63	1994	5	2.90	1996	.04	1989
Ann	12.02	11.75	1.66	Jul 1984	29	4.75	May 1981	.00+	Aug 1992

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.9	3.4	.1	.0
Feb	7.2	2.8	.1	.0
Mar	7.6	4.0	.3	.0
Apr	7.1	3.4	.4	@
May	9.2	4.4	.6	.1
Jun	5.5	2.8	.5	@
Jul	3.5	1.7	.3	@
Aug	4.4	2.1	.4	.1
Sep	4.6	2.5	.5	@
Oct	5.2	3.1	.5	.1
Nov	7.3	3.1	.1	.0
Dec	8.3	3.1	.2	.0
Ann	78.8	36.4	4.0	.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	.25	.34	.48	.59	.71	.83	.97	1.13	1.34	1.66	1.97
Feb	.16	.24	.38	.50	.63	.76	.92	1.11	1.36	1.76	2.15
Mar	.19	.29	.46	.62	.79	.97	1.18	1.43	1.77	2.33	2.86
Apr	.17	.26	.41	.56	.72	.88	1.08	1.32	1.63	2.15	2.64
May	.24	.38	.61	.84	1.07	1.33	1.62	1.99	2.47	3.26	4.03
Jun	.09	.16	.29	.43	.58	.75	.96	1.21	1.56	2.15	2.73
Jul	.00	.00	.06	.14	.25	.39	.57	.81	1.15	1.75	2.37
Aug	.01	.03	.10	.20	.32	.47	.66	.91	1.28	1.92	2.57
Sep	.00	.00	.16	.30	.45	.62	.81	1.05	1.38	1.93	2.47
Oct	.06	.16	.32	.48	.65	.83	1.05	1.31	1.67	2.27	2.84
Nov	.14	.27	.44	.58	.72	.86	1.03	1.22	1.48	1.89	2.28
Dec	.11	.18	.31	.44	.59	.75	.93	1.16	1.48	2.00	2.50
Ann	7.45	8.29	9.39	10.24	11.01	11.76	12.55	13.42	14.50	16.09	17.49

\+ 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: 1948-2001
(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	6.0	5.0	4	3
Feb	3.6	2.5	3	1
Mar	1.9	1.5	1	#
Apr	.4	.0	#	#
May	.3	.0	#	0
Jun	#	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	#	.0	0	0
Oct	.5	.0	#	0
Nov	2.7	1.0	1	#
Dec	4.3	3.3	2	1
Ann	19.7	13.3	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	6.5	1977	4	11.5	1977	19	1982	5	14	1993
Feb	5.5	1994	11	9.0	1976	18	1984	24	14	1985
Mar	3.0	1974	2	7.0	1982	20	1985	7	15	1985
Apr	7.0	1976	27	7.0	1976	13	1976	27	7	1976
May	3.0	1975	4	3.0	1975	3	1983	11	#+	1999
Jun	#	1995	6	#	1995	#	1995	19	#	1995
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	#	1978	19	#	1978	0	0	0	0	0
Oct	5.0	1989	30	5.0	1997	5	1997	24	#+	1997
Nov	6.0	1973	24	9.0+	1975	13	1985	30	4	1985
Dec	9.0	1988	26	13.0	1981	14+	1996	23	11	1985
Ann	9.0	Dec 1988	26	13.0	Dec 1981	20	Mar 1985	7	15	Mar 1985

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	4.2	2.6	.5	.1	.0
Feb	2.5	1.6	.5	@	.0
Mar	1.6	.9	.2	.0	.0
Apr	.5	.2	.1	@	.0
May	.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	.2	.1	.1	.0
Nov	1.9	1.2	.3	.1	.0
Dec	4.2	2.4	.6	.3	.0
Ann	15.4	9.2	2.3	.6	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	14.3	6.8	3.7	.4
Feb	6.9	3.4	1.7	.0
Mar	1.6	.2	.0	.0
Apr	.2	@	.0	.0
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	.5	.1	@	.0
Nov	3.5	.8	.3	.0
Dec	8.7	4.1	2.7	.5
Ann	35.8	15.5	8.4	.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	6/29	6/23	6/19	6/15	6/12	6/09	6/05	6/01	5/26
32	6/18	6/12	6/07	6/03	5/30	5/26	5/22	5/17	5/10
28	5/26	5/20	5/16	5/12	5/08	5/04	4/30	4/26	4/20
24	5/05	5/01	4/28	4/25	4/23	4/21	4/19	4/16	4/12
20	4/25	4/18	4/13	4/09	4/05	4/02	3/28	3/24	3/17
16	4/08	3/31	3/26	3/21	3/17	3/12	3/07	3/02	2/22

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	8/28	9/01	9/04	9/07	9/10	9/13	9/17	9/22
32	9/03	9/08	9/12	9/16	9/19	9/22	9/25	9/30	10/05
28	9/14	9/19	9/23	9/26	9/29	10/02	10/05	10/09	10/14
24	9/24	9/30	10/04	10/08	10/12	10/15	10/19	10/23	10/29
20	10/06	10/12	10/16	10/20	10/23	10/27	10/30	11/04	11/09
16	10/12	10/19	10/24	10/29	11/02	11/06	11/10	11/15	11/23

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	106	99	94	90	86	82	78	73	66
32	135	127	121	116	111	107	102	96	88
28	164	157	152	147	143	139	134	129	122
24	192	184	179	175	171	166	162	157	149
20	227	218	211	205	200	195	189	182	173
16	264	252	244	236	229	223	215	207	195

***** 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)

Base — Heating Degree Days (1)

Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1329	1048	895	636	406	181	55	72	267	599	965	1303	7756
60	1174	908	740	487	264	89	12	21	153	445	815	1148	6256
57	1081	824	647	402	189	50	3	8	100	354	725	1055	5438
55	1019	768	586	347	147	32	1	4	72	297	665	993	4931
50	864	631	442	221	66	7	0	0	24	171	521	838	3785
32	368	218	77	10	0	0	0	0	0	3	123	327	1126

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	62	94	204	365	619	840	1069	1041	738	428	148	47	5655
55	0	0	1	11	52	182	357	332	120	8	0	0	1063
57	0	0	0	6	33	141	297	274	88	4	0	0	843
60	0	0	0	1	15	89	213	194	52	1	0	0	565
65	0	0	0	0	2	31	100	90	16	0	0	0	239
70	0	0	0	0	0	7	30	27	3	0	0	0	67

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	1	9	61	194	431	661	881	860	551	249	38	1	1	10	71	265	696	1357	2238	3098	3649	3898	3936	3937
45	0	0	15	100	291	511	726	705	408	134	10	0	0	0	15	115	406	917	1643	2348	2756	2890	2900	2900
50	0	0	0	46	166	364	571	550	270	59	0	0	0	0	0	46	212	576	1147	1697	1967	2026	2026	2026
55	0	0	0	14	79	231	416	396	154	17	0	0	0	0	0	14	93	324	740	1136	1290	1307	1307	1307
60	0	0	0	1	26	121	266	248	67	2	0	0	0	0	0	1	27	148	414	662	729	731	731	731
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	10	57	157	290	418	561	553	386	211	36	0	0	10	67	224	514	932	1493	2046	2432	2643	2679	2679

(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