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: DEER CREEK DAM, UT **COOP ID: 422057**

Climate Division: UT 5 **NWS Call Sign:** **Elevation: 5,270 Feet** **Lat: 40˚24N** **Lon: 111˚32W**

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	33.0	9.0	21.0	58	1987	28	30.7	2000	-33	1949	29	11.4	1979	1364	0	.0	.0	1.5	13.9	30.1	8.2
Feb	38.0	11.0	24.5	67	1963	6	34.1	2000	-39	1989	7	12.7	1985	1135	0	.0	.0	3.1	7.0	27.5	5.9
Mar	48.0	21.3	34.7	73	1986	29	42.0	1986	-23	1964	8	29.1	1984	942	0	.0	.0	12.7	1.3	29.1	.8
Apr	57.4	28.2	42.8	81	1949	24	48.4	1992	4	1954	1	36.8	1975	665	0	.0	.0	22.6	.0	22.2	.0
May	66.5	35.4	51.0	89	1954	21	55.4	1992	16	1972	1	45.9	1975	436	0	.0	.0	29.5	.0	10.1	.0
Jun	76.8	41.5	59.2	99	1954	24	64.0	1988	26	1954	2	54.5	1998	195	19	.0	2.2	30.0	.0	1.8	.0
Jul	84.5	47.4	66.0	99+	1954	12	69.1	1989	30	1950	31	60.7	1993	48	76	.0	7.6	31.0	.0	.0	.0
Aug	83.4	46.2	64.8	98	1958	13	68.2	2000	28+	1962	31	60.8	1975	69	62	.0	4.8	31.0	.0	.3	.0
Sep	74.1	38.7	56.4	96+	1950	1	62.0	1990	19+	1958	25	52.2	1971	265	6	.0	.4	29.7	.0	6.3	.0
Oct	62.4	30.0	46.2	86	1957	1	51.6	1988	8	1972	31	40.9	1984	582	0	.0	.0	27.2	.2	22.6	.0
Nov	46.7	21.9	34.3	72+	1980	6	40.2	1999	-11	1955	16	26.8	1994	921	0	.0	.0	12.5	2.7	28.1	.2
Dec	35.9	13.8	24.9	64	1995	2	31.8	1980	-30+	1990	23	16.8	1990	1244	0	.0	.0	2.7	10.1	30.0	2.8
Ann	58.9	28.7	43.8	99+	Jul 1954	12	69.1	Jul 1989	-39	Feb 1989	7	11.4	Jan 1979	7866	163	.0	15.0	233.5	35.2	208.1	17.9

\+ 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

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	3.12	2.25	4.52	1997	26	13.71	1980	.32	1992
Feb	2.86	2.41	5.08	1963	1	11.39	1986	.09	1988
Mar	2.42	2.12	2.88	1982	12	7.14	1982	.19	1997
Apr	1.76	1.75	1.48	1973	18	3.71	1978	.05	1987
May	1.92	1.73	1.73+	1966	11	5.40	1995	.13	1972
Jun	1.01	.89	1.81	1984	7	3.52	1984	.03+	1979
Jul	.91	.78	1.19	1987	22	3.24	1983	.00	1978
Aug	1.12	1.14	1.06	1953	2	2.69	1991	.04	1985
Sep	1.58	1.37	1.86	1989	18	6.93	1982	.00	1974
Oct	2.09	1.71	2.44	1979	20	5.11	1981	.07	1978
Nov	2.30	1.76	2.71	1950	19	8.28	1985	.02	1976
Dec	2.32	2.05	2.02	1965	30	6.71	1996	.02	1976
Ann	23.41	23.71	5.08	Feb 1963	1	13.71	Jan 1980	.00+	Jul 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.9	6.5	1.7	.6
Feb	9.0	5.7	1.9	.6
Mar	9.1	5.3	1.5	.4
Apr	8.6	5.1	.9	.2
May	9.3	5.5	1.0	.1
Jun	4.8	2.7	.5	.1
Jul	5.1	2.5	.5	.1
Aug	6.2	3.4	.5	.0
Sep	6.4	4.0	.9	.3
Oct	7.2	4.3	1.3	.4
Nov	8.3	5.2	1.3	.4
Dec	9.1	5.2	1.4	.4
Ann	93.0	55.4	13.4	3.6

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	.28	.49	.91	1.34	1.82	2.36	3.00	3.80	4.91	6.76	8.57
Feb	.34	.56	.96	1.36	1.78	2.26	2.81	3.49	4.42	5.95	7.44
Mar	.37	.58	.93	1.26	1.61	1.99	2.42	2.96	3.67	4.84	5.95
Apr	.33	.49	.74	.98	1.23	1.49	1.78	2.14	2.62	3.38	4.11
May	.28	.44	.71	.98	1.26	1.56	1.91	2.34	2.92	3.86	4.77
Jun	.06	.12	.24	.38	.54	.72	.94	1.22	1.62	2.29	2.96
Jul	.03	.10	.23	.36	.51	.67	.87	1.12	1.46	2.04	2.60
Aug	.14	.22	.38	.54	.71	.89	1.10	1.37	1.73	2.33	2.90
Sep	.09	.24	.49	.72	.97	1.24	1.56	1.95	2.49	3.37	4.22
Oct	.25	.42	.71	1.00	1.31	1.66	2.06	2.55	3.22	4.33	5.40
Nov	.18	.33	.63	.95	1.30	1.70	2.19	2.80	3.64	5.06	6.46
Dec	.17	.31	.61	.93	1.29	1.70	2.19	2.82	3.69	5.15	6.60
Ann	12.89	14.73	17.19	19.14	20.91	22.67	24.52	26.61	29.20	33.06	36.49

\+ 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)

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	21.4	14.9	9	8	20.0	1993	10	84.7	1993	37	1993	9	22	1993	6.9	6.2	3.2	1.8	.3	24.2	21.1	15.7	8.1
Feb	14.9	10.0	11	12	15.0	1978	10	40.0	1993	35	1979	24	23	1984	4.8	4.5	2.1	.9	.2	-9.9	-9.9	-9.9	-9.9
Mar	7.2	6.3	4	2	8.0	1976	2	19.0	1982	30	1978	5	15	1978	2.8	2.5	.7	.3	.0	9.7	7.2	5.8	3.4
Apr	1.5	.0	#	0	4.0	1976	16	14.0	1976	4	1999	8	#+	1999	.7	.6	.3	.0	.0	.3	.1	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.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	.3	.0	#	0	8.0	1984	17	8.0	1984	9	1984	19	1	1984	.1	.1	.1	@	.0	.2	.2	.1	.0
Nov	11.0	7.5	2	1	10.0	1975	28	30.5	1978	18+	1978	14	7	1978	3.2	2.5	1.3	.6	.1	6.8	5.1	4.0	1.1
Dec	11.5	12.8	4	3	14.0	1992	18	22.1	1977	28	1983	26	16	1983	4.5	3.9	2.1	1.1	.1	15.8	14.2	10.7	2.9
Ann	67.8	51.5	N/A	N/A	20.0	Jan 1993	10	84.7	Jan 1993	37	Jan 1993	9	23	Feb 1984	23.0	20.3	9.8	4.7	.7	-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	7/09	7/03	6/29	6/25	6/22	6/18	6/15	6/10	6/04
32	6/23	6/17	6/13	6/10	6/07	6/03	5/31	5/27	5/21
28	6/03	5/28	5/24	5/20	5/16	5/13	5/09	5/04	4/28
24	5/14	5/09	5/05	5/01	4/28	4/25	4/21	4/17	4/12
20	5/08	4/30	4/24	4/19	4/14	4/10	4/05	3/30	3/22
16	4/19	4/11	4/06	4/01	3/28	3/24	3/19	3/14	3/06

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	8/10	8/17	8/22	8/26	8/31	9/04	9/08	9/13	9/20
32	8/31	9/05	9/09	9/12	9/14	9/17	9/20	9/24	9/28
28	9/18	9/21	9/24	9/26	9/28	9/30	10/03	10/05	10/09
24	9/26	10/01	10/06	10/09	10/13	10/16	10/20	10/24	10/30
20	10/14	10/18	10/21	10/24	10/26	10/29	10/31	11/04	11/08
16	10/24	10/28	11/01	11/04	11/07	11/09	11/12	11/16	11/21

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	97	87	80	75	69	64	58	51	42
32	122	114	109	104	99	94	90	84	76
28	154	147	142	138	134	130	126	121	114
24	195	186	179	173	167	161	155	148	139
20	221	212	205	200	194	189	184	177	168
16	250	241	234	228	223	217	212	205	196

***** 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	1364	1135	942	665	436	195	48	69	265	582	921	1244	7866
60	1209	995	787	515	286	93	8	16	142	428	771	1089	6339
57	1116	911	694	427	204	51	2	5	85	337	681	996	5509
55	1054	855	632	370	155	31	0	2	57	278	621	934	4989
50	901	719	481	236	65	6	0	0	14	151	472	779	3824
32	407	291	86	8	0	0	0	0	0	1	76	268	1137

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	66	80	168	333	587	814	1052	1016	731	442	146	46	5481
55	0	0	0	4	30	155	339	305	98	6	0	0	937
57	0	0	0	1	16	115	278	246	67	2	0	0	725
60	0	0	0	0	5	67	192	164	33	0	0	0	461
65	0	0	0	0	0	19	76	62	6	0	0	0	163
70	0	0	0	0	0	3	15	12	0	0	0	0	30

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	2	37	147	360	593	819	779	497	225	38	2	0	2	39	186	546	1139	1958	2737	3234	3459	3497	3499
45	0	0	4	67	222	443	664	624	352	112	6	0	0	0	4	71	293	736	1400	2024	2376	2488	2494	2494
50	0	0	0	19	113	299	510	469	217	33	0	0	0	0	0	19	132	431	941	1410	1627	1660	1660	1660
55	0	0	0	0	39	172	355	317	104	3	0	0	0	0	0	0	39	211	566	883	987	990	990	990
60	0	0	0	0	4	72	207	173	32	0	0	0	0	0	0	0	4	76	283	456	488	488	488	488
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	12	55	148	280	417	543	531	378	222	57	3	0	12	67	215	495	912	1455	1986	2364	2586	2643	2646

(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