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: CEDAR POINT, UT **COOP ID: 421308**

Climate Division: UT 7 **NWS Call Sign:** **Elevation: 6,760 Feet** **Lat: 37˚43N** **Lon: 109˚05W**

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	36.4	13.9	25.2	58	1996	15	33.7	1986	-15+	1971	6	16.7	1979	1235	0	.0	.0	2.2	8.6	30.7	2.9
Feb	41.4	17.8	29.6	66	1986	26	38.2	1995	-18	1985	1	22.4	1974	992	0	.0	.0	5.2	4.2	27.7	1.0
Mar	48.2	24.6	36.4	72	1986	29	42.2	1999	-8	1960	3	30.5	1980	887	0	.0	.0	14.3	1.0	27.5	@
Apr	57.4	30.5	44.0	80+	1992	29	50.0	1992	10	1973	8	37.7	1973	632	0	.0	.0	23.6	.1	17.7	.0
May	68.2	38.5	53.4	91	2000	30	59.8	1996	19	1967	1	49.3	1975	365	4	.0	.1	30.1	.0	5.5	.0
Jun	80.3	46.7	63.5	98+	1970	26	67.8	2000	22	1991	1	58.8	1975	114	69	.0	3.2	29.9	.0	.4	.0
Jul	85.8	53.5	69.7	100+	1989	7	73.7	1996	37	1959	1	65.8	1992	9	153	.1	8.2	31.0	.0	.2	.0
Aug	82.9	52.2	67.6	98+	1996	13	71.7	1996	34	1968	23	64.6	1975	34	112	.0	3.8	31.0	.0	.0	.0
Sep	74.5	44.9	59.7	92+	1995	1	63.3	1979	26	1971	19	54.5	1985	180	21	.0	.2	29.9	.0	.7	.0
Oct	62.0	34.8	48.4	82	1963	3	53.9	1988	10+	1971	30	42.3	1984	514	0	.0	.0	27.4	.3	10.1	.0
Nov	46.7	23.5	35.1	71	1999	7	42.9	1999	-6	1975	30	29.0	1979	897	0	.0	.0	12.7	2.4	26.7	.1
Dec	38.0	15.9	27.0	62	1999	1	36.4	1980	-20	1990	23	17.9	1978	1179	0	.0	.0	2.8	7.3	30.6	1.3
Ann	60.2	33.1	46.6	100+	Jul 1989	7	73.7	Jul 1996	-20	Dec 1990	23	16.7	Jan 1979	7038	359	.1	15.5	240.1	23.9	177.8	5.3

\+ 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: 1957-2001

(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	1.50	1.12	1.36	1997	13	4.75	1993	.00	1972
Feb	1.36	1.09	2.05	1997	28	3.86	1980	.00+	1974
Mar	1.40	1.17	1.25	1995	6	3.27	1978	.00	1971
Apr	1.08	.85	2.01	1986	3	3.23	1999	.00	1989
May	1.09	.99	1.30	1997	22	2.83	1995	.00	1972
Jun	.43	.20	1.16	1984	6	2.31	1984	.00+	1980
Jul	1.34	1.25	1.59	1986	21	3.21	1986	.00+	1994
Aug	1.34	1.00	2.68	1957	30	3.35	1971	.07	1985
Sep	1.49	1.12	3.75	1970	5	4.07	1985	.00	1979
Oct	2.10	1.92	2.79	1971	17	8.28	1972	.00+	1999
Nov	1.54	1.27	1.90	1978	11	4.06	1978	.00+	1989
Dec	1.15	.93	1.38	1994	6	3.53	1978	.00+	1989
Ann	15.82	15.77	3.75	Sep 1970	5	8.28	Oct 1972	.00+	Oct 1999

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.0	4.0	.9	.1
Feb	5.6	3.4	.8	.2
Mar	6.6	4.1	.8	.1
Apr	5.5	3.0	.5	@
May	5.3	3.2	.6	.1
Jun	2.5	1.3	.2	@
Jul	6.9	3.5	.7	.1
Aug	7.0	3.9	.7	.1
Sep	6.6	3.8	.7	.2
Oct	5.8	4.2	1.5	.4
Nov	5.2	3.5	1.0	.2
Dec	4.7	2.8	.6	.1
Ann	67.7	40.7	9.0	1.6

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	.06	.18	.39	.61	.85	1.12	1.44	1.84	2.39	3.31	4.21
Feb	.00	.14	.38	.60	.82	1.06	1.35	1.69	2.16	2.93	3.68
Mar	.03	.11	.29	.48	.70	.97	1.29	1.70	2.28	3.27	4.25
Apr	.04	.12	.28	.43	.60	.80	1.03	1.32	1.72	2.39	3.05
May	.02	.09	.23	.38	.55	.76	1.00	1.32	1.76	2.52	3.28
Jun	.00	.00	.03	.09	.16	.24	.36	.50	.72	1.10	1.49
Jul	.00	.25	.52	.73	.94	1.15	1.39	1.67	2.04	2.63	3.19
Aug	.19	.31	.50	.68	.88	1.09	1.34	1.64	2.04	2.71	3.34
Sep	.24	.44	.69	.90	1.10	1.31	1.55	1.83	2.20	2.78	3.32
Oct	.00	.19	.54	.87	1.22	1.61	2.06	2.61	3.37	4.63	5.86
Nov	.00	.25	.56	.80	1.05	1.30	1.59	1.92	2.37	3.09	3.78
Dec	.00	.07	.24	.41	.60	.82	1.09	1.42	1.88	2.65	3.41
Ann	10.01	11.08	12.48	13.56	14.54	15.49	16.48	17.59	18.94	20.93	22.68

\+ 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: 1957-2001
(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	15.7	13.0	8	6
Feb	13.4	11.5	8	7
Mar	9.9	9.0	3	1
Apr	4.8	2.0	#	#
May	.9	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	1.5	.0	#	0
Nov	9.8	6.3	1	1
Dec	10.4	7.0	3	2
Ann	66.4	48.8	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	18.0	1997	13	42.0	1978	43	1973	10	35	1973
Feb	20.0	1997	28	38.0	1978	42	1979	2	38	1979
Mar	11.0	1981	11	30.0	1973	39	1979	2	23	1979
Apr	6.0	1975	11	23.0	1975	16	1979	3	3	1979
May	9.0	1979	10	11.0	1979	2+	1995	7	#+	1995
Jun	1.0	1999	6	1.0	1999	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	8.0	1991	30	8.0	1994	9	1991	30	1	1991
Nov	12.0	1985	30	33.0	1985	14	1973	26	3+	2000
Dec	14.0	1990	20	25.4	1971	22	1972	30	12	1978
Ann	20.0	Feb 1997	28	42.0	Jan 1978	43	Jan 1973	10	38	Feb 1979

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	4.5	4.4	2.8	1.7	.4
Feb	3.7	3.6	2.3	1.3	.2
Mar	2.8	2.7	1.6	.8	.1
Apr	1.8	1.8	.9	.2	.0
May	.4	.4	.1	@	.0
Jun	@	@	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.7	.6	.3	.1	.0
Nov	2.5	2.5	1.5	.9	.2
Dec	3.0	2.8	1.7	.9	.2
Ann	19.4	18.8	11.2	5.9	1.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	18.9	17.4	15.6	8.4
Feb	14.9	12.5	9.9	5.4
Mar	6.7	5.6	4.2	2.0
Apr	1.5	.8	.2	@
May	.2	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.5	.3	.1	.0
Nov	5.2	4.2	2.1	.3
Dec	10.5	8.1	4.9	2.4
Ann	58.4	48.9	37.0	18.5

+ 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	7/06	6/27	6/21	6/16	6/11	6/06	6/01	5/25	5/17
32	7/02	6/22	6/15	6/08	6/03	5/28	5/21	5/14	5/04
28	6/29	6/17	6/07	5/30	5/23	5/16	5/08	4/28	4/16
24	5/22	5/12	5/05	4/29	4/24	4/18	4/13	4/06	3/27
20	4/26	4/20	4/16	4/12	4/08	4/05	4/01	3/28	3/22
16	4/14	4/07	4/03	3/30	3/27	3/23	3/19	3/15	3/08

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	9/15	9/19	9/22	9/25	9/27	9/30	10/02	10/05	10/09
32	9/24	9/28	10/02	10/05	10/08	10/11	10/14	10/17	10/22
28	10/02	10/07	10/11	10/14	10/17	10/20	10/24	10/27	11/02
24	10/16	10/21	10/25	10/28	10/30	11/02	11/05	11/09	11/13
20	10/26	10/30	11/02	11/05	11/07	11/10	11/12	11/15	11/19
16	10/30	11/05	11/08	11/11	11/14	11/17	11/21	11/24	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	135	126	119	113	108	102	96	89	80
32	159	148	140	133	127	120	113	105	94
28	187	173	163	154	147	139	130	120	106
24	221	210	202	195	189	182	176	168	157
20	236	228	222	217	212	208	203	197	189
16	254	246	241	236	232	228	223	218	210

***** 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	1235	992	887	632	365	114	9	34	180	514	897	1179	7038
60	1080	852	732	483	227	48	1	6	82	364	747	1024	5646
57	987	768	639	398	157	24	0	1	44	280	657	931	4886
55	925	712	578	343	118	14	0	0	27	230	597	869	4413
50	770	572	430	217	47	3	0	0	5	124	450	714	3332
32	268	145	59	9	0	0	0	0	0	1	67	218	767

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	55	77	194	367	662	945	1167	1101	831	511	160	63	6133
55	0	0	0	10	67	268	454	389	168	26	0	0	1382
57	0	0	0	5	44	218	392	328	125	15	0	0	1127
60	0	0	0	1	21	152	300	239	73	6	0	0	792
65	0	0	0	0	4	69	153	112	21	0	0	0	359
70	0	0	0	0	0	21	47	33	3	0	0	0	104

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	8	53	186	432	717	925	867	607	298	46	0	0	8	61	247	679	1396	2321	3188	3795	4093	4139	4139
45	0	0	12	90	288	567	770	712	457	171	10	0	0	0	12	102	390	957	1727	2439	2896	3067	3077	3077
50	0	0	0	33	163	420	615	557	314	78	0	0	0	0	0	33	196	616	1231	1788	2102	2180	2180	2180
55	0	0	0	7	73	280	460	402	180	21	0	0	0	0	0	7	80	360	820	1222	1402	1423	1423	1423
60	0	0	0	0	21	156	307	250	80	0	0	0	0	0	0	0	21	177	484	734	814	814	814	814
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	10	54	148	296	467	591	555	385	206	47	0	0	10	64	212	508	975	1566	2121	2506	2712	2759	2759

(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