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: OAK CITY, UT **COOP ID: 426357**

Climate Division: UT 4 **NWS Call Sign:** **Elevation: 5,070 Feet** **Lat: 39˚23N** **Lon: 112˚20W**

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	38.6	20.6	29.6	68	1997	31	39.0	1997	-25	1937	23	19.5	1984	1096	0	.0	.0	5.2	7.2	27.8	1.6
Feb	45.1	25.2	35.2	75	1954	24	43.1	1995	-23	1933	10	26.0	1984	836	0	.0	.0	10.7	2.6	23.0	.5
Mar	54.3	31.9	43.1	78	1986	28	48.8	1989	1	1971	2	36.4	1976	679	0	.0	.0	22.8	.2	18.9	.0
Apr	62.2	37.2	49.7	87	1977	24	57.5	1992	11	1929	10	42.5	1975	467	6	.0	.0	27.2	.0	10.9	.0
May	72.7	45.8	59.3	95	1984	28	64.7	1997	22+	1961	5	53.3	1975	223	46	.0	.9	30.6	.0	1.9	.0
Jun	84.7	55.5	70.1	105+	1971	21	75.0	1994	30+	1976	15	62.2	1995	53	206	.9	12.3	30.0	.0	.1	.0
Jul	92.4	63.9	78.2	108+	1931	22	81.8	1988	42+	1938	5	73.2	1993	1	409	4.9	25.9	31.0	.0	.0	.0
Aug	90.5	62.1	76.3	105	1979	3	80.2	1997	35	1960	23	72.5	1987	2	352	2.9	22.2	31.0	.0	.0	.0
Sep	80.5	52.5	66.5	100+	1977	6	72.1	1990	23	1965	18	61.0	1986	71	121	.1	6.2	30.0	.0	.5	.0
Oct	66.8	41.1	54.0	94	1950	13	62.1	1988	6	1971	30	47.3	1984	357	13	.0	.1	29.4	.1	6.0	.0
Nov	49.9	29.1	39.5	78	1934	6	47.5	1999	-4	1931	24	31.5	1994	765	0	.0	.0	17.3	1.2	21.0	.0
Dec	39.6	20.5	30.1	68+	1980	27	38.1	1996	-25	1932	13	21.4	1990	1084	0	.0	.0	6.5	6.4	28.4	1.3
Ann	64.8	40.5	52.6	108+	Jul 1931	22	81.8	Jul 1988	-25+	Jan 1937	23	19.5	Jan 1984	5634	1153	8.8	67.6	271.7	17.7	138.5	3.4

\+ 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: 1928-2001

(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	1.24	.99	1.16	1954	25	3.60	1993	.21	1972
Feb	1.23	1.07	1.10	1959	12	2.92	2000	.10	1972
Mar	1.55	1.61	1.28	1938	21	3.39	1980	.00	1997
Apr	1.54	1.37	1.95	1953	28	3.09	1999	.09	1992
May	1.58	1.48	2.88	1975	20	4.25	1975	.12	1974
Jun	.79	.48	1.61	1999	3	2.97	1998	.00+	1996
Jul	.50	.30	2.27	1929	27	2.44	1984	.00	2000
Aug	.77	.66	1.35	1947	10	2.24	1997	.00+	1996
Sep	1.07	.82	1.61	1965	5	5.01	1982	.00+	1979
Oct	1.60	1.38	2.00	1946	27	4.07	1981	.00	1995
Nov	1.28	1.24	1.39	1996	22	3.37	1994	.15	1999
Dec	1.06	1.02	1.37	1966	6	2.92	1972	.05	1976
Ann	14.21	14.07	2.88	May 1975	20	5.01	Sep 1982	.00+	Jul 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.2	3.8	.6	.0
Feb	6.8	4.2	.4	@
Mar	7.5	4.6	.9	.1
Apr	6.4	4.2	1.0	.1
May	6.4	4.2	.8	.2
Jun	3.6	2.2	.3	.1
Jul	3.4	1.5	.2	.0
Aug	4.1	2.4	.4	.1
Sep	4.4	3.1	.6	.1
Oct	5.3	3.7	1.0	.3
Nov	5.3	3.5	.7	.1
Dec	5.4	3.2	.4	.0
Ann	64.8	40.6	7.3	1.1

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	.42	.60	.76	.92	1.09	1.28	1.50	1.80	2.26	2.70
Feb	.19	.30	.48	.65	.82	1.01	1.23	1.50	1.86	2.44	2.99
Mar	.12	.29	.54	.77	1.00	1.26	1.56	1.92	2.41	3.20	3.95
Apr	.27	.41	.63	.84	1.06	1.29	1.56	1.88	2.31	3.01	3.67
May	.30	.44	.68	.89	1.11	1.34	1.61	1.93	2.35	3.03	3.68
Jun	.00	.00	.05	.19	.34	.52	.72	.98	1.35	1.95	2.57
Jul	.02	.06	.13	.20	.28	.37	.48	.61	.80	1.11	1.42
Aug	.00	.00	.21	.35	.48	.62	.78	.97	1.23	1.64	2.05
Sep	.00	.13	.33	.50	.67	.86	1.08	1.33	1.68	2.26	2.81
Oct	.20	.41	.68	.91	1.14	1.38	1.65	1.98	2.41	3.09	3.74
Nov	.24	.35	.54	.71	.89	1.08	1.30	1.56	1.91	2.48	3.01
Dec	.15	.24	.39	.53	.69	.86	1.05	1.29	1.61	2.14	2.65
Ann	8.28	9.34	10.75	11.85	12.84	13.83	14.86	16.02	17.45	19.57	21.44

\+ 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: 1928-2001
(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	9.5	8.1	3	2
Feb	5.7	4.0	1	1
Mar	7.3	7.0	#	#
Apr	4.0	3.8	#	#
May	1.3	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.1	.0	0	0
Oct	2.0	.0	#	0
Nov	6.4	4.8	1	#
Dec	8.2	6.5	2	1
Ann	44.5	34.2	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	10.0	1980	28	21.5	1979	19	1988	20	13	1988
Feb	8.0	1979	22	17.5	1979	12+	1990	14	7	1988
Mar	16.0	1988	16	21.0+	1988	10	1988	16	3	1973
Apr	10.0	1983	12	10.0+	1991	8	1983	12	#+	1999
May	19.0	1975	20	25.0	1975	15	1975	20	1	1975
Jun	.0	0	0	.0	0	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	2.5	1971	30	2.5	1971	0	0	0	0	0
Oct	11.5	1971	28	24.5	1971	18	1971	29	2	1971
Nov	10.0	1978	25	18.1	1978	14	1983	21	4	1983
Dec	10.0	1987	23	27.0	1988	15	1972	9	8	1972
Ann	19.0	May 1975	20	27.0	Dec 1988	19	Jan 1988	20	13	Jan 1988

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	4.5	3.9	1.2	.5	@
Feb	3.1	2.7	.9	.4	.0
Mar	3.3	2.8	.9	.3	@
Apr	1.6	1.5	.5	.2	@
May	.4	.3	.2	.1	@
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	@	@	.0	.0	.0
Oct	.6	.6	.2	.1	@
Nov	2.4	2.3	.8	.4	@
Dec	3.3	3.0	1.0	.4	@
Ann	19.2	17.1	5.7	2.4	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	10.4	6.1	3.3	.1
Feb	9.1	5.8	2.8	.5
Mar	2.0	.8	.3	@
Apr	.8	.4	.1	.0
May	.1	@	@	@
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.4	.2	.2	.1
Nov	2.9	1.8	.6	.1
Dec	9.1	3.8	1.8	.4
Ann	34.8	18.9	9.1	1.2

+ 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	6/11	6/05	6/01	5/28	5/24	5/21	5/17	5/13	5/07
32	6/04	5/28	5/22	5/18	5/14	5/10	5/06	4/30	4/23
28	5/15	5/08	5/03	4/28	4/24	4/20	4/15	4/10	4/03
24	4/26	4/18	4/12	4/06	4/01	3/28	3/22	3/16	3/08
20	4/09	3/31	3/25	3/19	3/14	3/09	3/04	2/26	2/17
16	3/26	3/17	3/12	3/07	3/02	2/26	2/21	2/15	2/07

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	9/16	9/20	9/24	9/27	9/29	10/02	10/05	10/08	10/12
32	9/22	9/28	10/02	10/06	10/10	10/13	10/17	10/22	10/28
28	10/13	10/17	10/20	10/23	10/25	10/28	10/30	11/02	11/07
24	10/20	10/25	10/28	10/30	11/02	11/04	11/07	11/10	11/14
20	10/29	11/03	11/06	11/09	11/12	11/15	11/18	11/21	11/26
16	11/06	11/11	11/15	11/19	11/22	11/25	11/28	12/02	12/08

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	151	143	137	132	127	122	117	112	104
32	175	166	159	154	148	143	137	130	121
28	210	201	194	189	184	178	173	166	157
24	244	234	226	220	214	208	201	193	183
20	272	262	254	248	242	236	230	222	212
16	295	284	276	270	264	258	251	244	233

***** 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	1096	836	679	467	223	53	1	2	71	357	765	1084	5634
60	941	696	526	331	127	19	0	0	26	232	616	929	4443
57	848	612	437	258	83	9	0	0	12	169	529	836	3793
55	790	556	381	216	60	6	0	0	7	133	472	774	3395
50	646	426	249	128	22	0	0	0	1	66	339	623	2500
32	223	85	14	3	0	0	0	0	0	0	45	181	551

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	149	173	358	533	846	1144	1431	1374	1040	680	270	120	8118
55	4	0	12	55	193	459	718	661	356	99	7	0	2564
57	0	0	6	38	154	403	656	599	301	73	4	0	2234
60	0	0	2	21	104	323	563	506	225	43	1	0	1788
65	0	0	0	6	46	206	409	352	121	13	0	0	1153
70	0	0	0	0	16	116	259	207	51	3	0	0	652

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	20	56	163	320	617	925	1205	1152	824	463	116	22	20	76	239	559	1176	2101	3306	4458	5282	5745	5861	5883
45	0	16	77	201	465	775	1050	997	674	322	53	5	0	16	93	294	759	1534	2584	3581	4255	4577	4630	4635
50	0	2	28	107	321	626	895	842	526	202	15	0	0	2	30	137	458	1084	1979	2821	3347	3549	3564	3564
55	0	1	4	44	200	477	740	687	381	106	1	0	0	1	5	49	249	726	1466	2153	2534	2640	2641	2641
60	0	0	0	18	105	336	585	532	249	41	0	0	0	0	0	18	123	459	1044	1576	1825	1866	1866	1866
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	10	42	117	220	402	598	770	735	541	310	89	16	10	52	169	389	791	1389	2159	2894	3435	3745	3834	3850

(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