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: RICHFIELD RADIO KSVC, UT **COOP ID: 427260**

Climate Division: UT 4 **NWS Call Sign:** **Elevation: 5,300 Feet** **Lat: 38˚46N** **Lon: 112˚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	40.6	15.5	28.1	68	1969	7	36.5	2000	-28+	1937	9	14.2	1989	1147	0	.0	.0	6.2	6.4	29.6	3.7
Feb	47.1	20.2	33.7	72	1972	28	40.1	1995	-33+	1989	6	24.8	1989	879	0	.0	.0	11.4	2.4	26.0	1.3
Mar	55.9	26.5	41.2	78	1997	20	45.4	1974	-12	1962	1	35.3	1976	739	0	.0	.0	23.4	.3	24.6	.2
Apr	63.8	31.1	47.5	89	1943	30	53.4	1992	9+	1931	3	40.8	1975	527	0	.0	.0	26.9	.0	17.7	.0
May	72.5	38.6	55.6	95	1943	11	61.1	1984	17	2000	12	51.5	1975	300	7	.0	.2	30.7	.0	5.2	.0
Jun	83.2	45.8	64.5	100+	1940	18	68.1	1994	25	1976	14	60.2	1998	83	67	.0	5.9	30.0	.0	.5	.0
Jul	89.1	52.2	70.7	104+	1931	23	73.0	1996	31	2000	11	67.4	1993	4	179	.2	15.5	31.0	.0	@	.0
Aug	87.3	51.0	69.2	103	1940	14	73.0	2000	29	1992	27	66.6	1975	13	141	@	10.6	31.0	.0	@	.0
Sep	79.5	42.2	60.9	98	1944	6	64.9	1983	19	1965	18	57.0	1986	148	24	.0	1.7	30.0	.0	3.5	.0
Oct	67.8	31.6	49.7	88+	1942	1	54.0	1988	0	1971	30	45.1	1984	475	0	.0	.0	29.1	.1	18.0	@
Nov	52.0	22.9	37.5	80	1934	6	42.7	1999	-12	1964	17	30.8	1979	827	0	.0	.0	18.0	1.6	26.5	.2
Dec	42.2	15.6	28.9	68	1995	1	37.2	1980	-32	1990	23	19.6	1990	1119	0	.0	.0	7.3	5.0	29.8	2.4
Ann	65.1	32.8	49.0	104+	Jul 1931	23	73.0+	Aug 2000	-33+	Feb 1989	6	14.2	Jan 1989	6261	418	.2	33.9	275.0	15.8	181.4	7.8

\+ 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	.62	.39	.94	1938	3	1.79	1974	.04	1981
Feb	.50	.42	.97	1969	26	1.66	1998	.08	1988
Mar	.77	.71	.88	1946	14	1.90	1992	.00	1997
Apr	.63	.50	1.17	1935	4	2.09	1973	.05	1982
May	1.04	.78	1.28	1991	31	2.85	1995	.03	1974
Jun	.59	.40	1.25	1943	2	2.72	1984	.00+	1996
Jul	.72	.49	1.62	1929	27	2.40	1975	.00	1988
Aug	.69	.53	1.80	1953	1	1.53	1982	.00	1976
Sep	.86	.72	1.17	1967	23	2.92	1980	.02	1979
Oct	.99	.93	1.14	1990	19	3.16	1981	.00	1973
Nov	.65	.48	1.18	1978	2	2.09	1985	.05	1999
Dec	.45	.38	1.19	1966	6	1.45	1983	.00+	1986
Ann	8.51	8.09	1.80	Aug 1953	1	3.16	Oct 1981	.00+	Mar 1997

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.5	1.9	.1	.0
Feb	5.6	1.9	.1	.0
Mar	7.5	2.5	.2	.0
Apr	6.9	1.8	.1	.0
May	7.4	3.2	.4	.1
Jun	4.6	1.5	.3	@
Jul	5.6	2.0	.2	.1
Aug	7.2	2.3	.2	.0
Sep	5.4	2.4	.5	.1
Oct	6.1	3.2	.4	.1
Nov	6.1	2.1	.2	@
Dec	5.1	1.4	.1	.0
Ann	74.0	26.2	2.8	.4

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	.05	.09	.17	.25	.35	.46	.59	.76	.99	1.37	1.76
Feb	.09	.13	.20	.27	.34	.41	.50	.60	.74	.97	1.18
Mar	.06	.14	.26	.38	.49	.62	.77	.96	1.20	1.60	1.99
Apr	.10	.15	.24	.33	.42	.52	.63	.77	.96	1.26	1.55
May	.10	.18	.32	.46	.62	.80	1.01	1.27	1.63	2.23	2.81
Jun	.00	.00	.06	.14	.24	.36	.51	.70	.98	1.46	1.94
Jul	.02	.07	.16	.26	.38	.51	.67	.87	1.16	1.63	2.11
Aug	.05	.13	.24	.34	.45	.56	.69	.85	1.06	1.41	1.75
Sep	.05	.10	.21	.33	.46	.61	.80	1.04	1.37	1.94	2.50
Oct	.06	.16	.31	.46	.61	.78	.98	1.22	1.54	2.07	2.59
Nov	.07	.12	.21	.30	.40	.51	.63	.79	1.00	1.36	1.70
Dec	.00	.03	.10	.17	.24	.33	.43	.55	.72	1.02	1.30
Ann	5.20	5.80	6.59	7.20	7.76	8.30	8.87	9.50	10.28	11.43	12.44

+ 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

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	2.2	.8	1	#
Feb	3.6	1.8	1	#
Mar	1.0	.2	#	#
Apr	.3	.0	#	0
May	.4	.0	#	0
Jun	#	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.5	.0	#	0
Nov	1.7	.5	#	#
Dec	1.6	1.0	1	#
Ann	11.3	4.3	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	8.0	1989	4	10.0	1996	13	1989	5	4	1989
Feb	9.0	1971	20	14.5	1989	19	1989	6	9	1989
Mar	13.0	1985	28	13.0+	1985	10	1987	19	10	1987
Apr	1.5	1991	13	2.0	1997	4	1985	20	#+	1999
May	10.0	1975	20	10.0	1975	1	1979	8	#+	1999
Jun	#	1999	5	#	1999	#	1999	5	#	1999
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.3	1978	18	.3	1978	0	0	0	0	0
Oct	6.0	1971	28	10.0	1971	6	1971	29	#+	1997
Nov	7.0	1996	29	9.3	1996	6	1994	19	1	1994
Dec	10.6	1998	20	10.6	1998	11	1998	20	4	1972
Ann	13.0	Mar 1985	28	14.5	Feb 1989	19	Feb 1989	6	10	Mar 1987

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.8	1.1	.4	.1	.0
Feb	1.5	1.4	.4	.2	.0
Mar	.7	.6	.2	@	@
Apr	.3	.1	.0	.0	.0
May	@	@	@	@	@
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	@	.0	.0	.0	.0
Oct	.3	.3	.1	@	.0
Nov	1.3	.6	.3	.1	.0
Dec	1.9	1.1	.3	.1	.1
Ann	7.8	5.2	1.7	.5	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	3.7	.9	.2	.0
Feb	1.7	.6	.5	.1
Mar	.7	.4	.1	.0
Apr	.1	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.2	.1	@	.0
Nov	1.3	.5	.1	.0
Dec	4.7	1.5	1.1	.1
Ann	12.4	4.0	2.0	.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	7/02	6/25	6/20	6/16	6/12	6/08	6/04	5/30	5/24
32	6/17	6/10	6/05	5/31	5/27	5/23	5/19	5/14	5/07
28	5/29	5/24	5/20	5/17	5/14	5/11	5/08	5/04	4/29
24	5/06	5/01	4/27	4/24	4/21	4/18	4/15	4/11	4/05
20	5/03	4/25	4/20	4/15	4/10	4/06	4/01	3/27	3/19
16	4/16	4/06	3/31	3/25	3/19	3/14	3/08	3/01	2/19

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	8/31	9/05	9/08	9/11	9/13	9/16	9/18	9/21	9/26
32	9/08	9/12	9/16	9/18	9/21	9/23	9/26	9/29	10/03
28	9/19	9/24	9/27	9/30	10/03	10/06	10/08	10/12	10/17
24	9/25	9/30	10/05	10/08	10/12	10/15	10/18	10/23	10/28
20	10/13	10/17	10/21	10/24	10/26	10/29	11/01	11/04	11/09
16	10/28	11/01	11/04	11/06	11/09	11/11	11/13	11/16	11/20

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	116	108	102	97	92	87	82	76	68
32	138	130	125	120	116	111	106	101	93
28	161	154	149	145	141	137	133	128	121
24	196	188	182	177	173	168	164	158	150
20	225	216	209	203	198	193	187	180	171
16	265	254	246	240	234	228	221	213	203

***** 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	1147	879	739	527	300	83	4	13	148	475	827	1119	6261
60	992	739	584	382	171	26	0	1	58	322	677	964	4916
57	899	655	491	300	111	10	0	0	27	237	587	871	4188
55	837	599	431	249	80	5	0	0	14	186	527	809	3737
50	694	465	287	142	27	0	0	0	2	84	381	655	2737
32	253	99	13	1	0	0	0	0	0	0	40	191	597

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	129	144	297	464	730	974	1199	1151	866	548	204	95	6801
55	0	0	2	22	97	289	486	438	190	21	0	0	1545
57	0	0	0	13	66	234	424	376	143	10	0	0	1266
60	0	0	0	5	33	160	331	284	84	3	0	0	900
65	0	0	0	0	7	67	179	141	24	0	0	0	418
70	0	0	0	0	0	17	59	41	3	0	0	0	120

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	9	29	113	249	487	741	963	911	635	321	68	9	9	38	151	400	887	1628	2591	3502	4137	4458	4526	4535
45	0	4	43	135	337	591	808	756	486	191	20	0	0	4	47	182	519	1110	1918	2674	3160	3351	3371	3371
50	0	2	8	58	205	441	653	601	340	87	2	0	0	2	10	68	273	714	1367	1968	2308	2395	2397	2397
55	0	1	0	13	92	300	498	446	204	24	0	0	0	1	1	14	106	406	904	1350	1554	1578	1578	1578
60	0	0	0	0	26	169	343	291	91	3	0	0	0	0	0	0	26	195	538	829	920	923	923	923
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	17	46	120	220	360	493	607	586	453	294	91	20	17	63	183	403	763	1256	1863	2449	2902	3196	3287	3307

(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