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: GREEN RIVER AVIATION, UT **COOP ID: 423418**

Climate Division: UT 7 **NWS Call Sign:** **Elevation: 4,070 Feet** **Lat: 38˚59N** **Lon: 110˚09W**

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	11.9	25.3	64+	1965	31	35.0	1998	-25	1979	30	5.6	1973	1233	0	.0	.0	5.3	9.3	30.3	7.0
Feb	48.5	19.9	34.2	71+	1962	11	43.5	1995	-22	1989	7	16.0	1979	861	0	.0	.0	14.0	2.3	26.2	1.8
Mar	60.9	30.7	45.8	81+	1971	26	50.1	1986	6	1965	3	40.4	1976	594	0	.0	.0	28.1	.1	20.8	.0
Apr	70.4	38.3	54.4	93+	1992	28	61.4	1992	15+	1963	3	47.5	1975	332	12	.0	.4	29.5	.0	8.7	.0
May	80.0	47.2	63.6	100	1996	29	68.7	1984	23	1975	6	58.2	1975	109	66	.1	4.0	30.9	.0	.9	.0
Jun	91.8	54.6	73.2	108	1994	26	78.8	1977	33	1990	2	67.1	1975	14	261	5.1	19.6	30.0	.0	.0	.0
Jul	97.3	61.9	79.6	110	1989	7	82.1	1996	40	1982	6	76.1	1993	0	453	12.4	28.4	31.0	.0	.0	.0
Aug	94.6	59.8	77.2	110	1998	8	80.5	1994	37	1992	27	73.3	1975	0	378	5.5	26.0	31.0	.0	.0	.0
Sep	84.9	49.1	67.0	102+	1990	13	71.7	1998	25	1978	21	62.8	1971	56	116	.4	9.1	30.0	.0	.8	.0
Oct	70.6	36.7	53.7	92	2000	2	59.9	1988	12	1975	25	48.7	1984	358	6	.0	.1	30.4	.0	9.8	.0
Nov	54.0	24.5	39.3	75	1950	8	43.3	1978	-6	1976	28	32.0	1979	773	0	.0	.0	21.1	.1	26.0	.2
Dec	42.5	15.8	29.2	68	1995	5	35.1	1980	-16+	1967	21	18.6	1978	1112	0	.0	.0	5.8	3.4	30.1	1.7
Ann	69.5	37.5	53.5	110+	Aug 1998	8	82.1	Jul 1996	-25	Jan 1979	30	5.6	Jan 1973	5442	1292	23.5	87.6	287.1	15.2	153.6	10.7

\+ 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	.50	.37	.61	2001	12	1.79	1993	.00+	1981
Feb	.43	.32	.60	1992	13	1.77	1998	.00+	1974
Mar	.67	.60	.84	1979	28	2.55	1979	.00+	1999
Apr	.60	.44	.90	1984	20	1.88	1997	.00	1982
May	.65	.65	1.23	1973	6	2.12	1973	.00+	1974
Jun	.34	.20	.70	1969	24	1.58	1984	.00+	1978
Jul	.76	.47	2.82	1999	15	3.35	1999	.04	1988
Aug	.68	.61	1.45	1983	3	2.09	1984	.00	1975
Sep	.72	.55	1.34	1961	8	1.93+	1997	.00+	1995
Oct	.98	.75	1.24	1994	16	4.39	1972	.00	1999
Nov	.46	.35	.77	1957	2	1.89	1978	.00+	1999
Dec	.32	.16	.75	1965	10	.97+	1987	.00+	1989
Ann	7.11	7.48	2.82	Jul 1999	15	4.39	Oct 1972	.00+	Nov 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	4.0	1.7	@	.0
Feb	3.7	1.7	.1	.0
Mar	4.8	2.1	.2	.0
Apr	4.0	2.0	.1	.0
May	4.4	2.3	.2	.1
Jun	2.5	.9	.1	.0
Jul	4.2	1.9	.3	.1
Aug	4.2	2.0	.3	@
Sep	4.9	2.2	.3	.1
Oct	4.8	2.8	.4	.1
Nov	3.5	1.6	.1	.0
Dec	3.0	1.1	.1	.0
Ann	48.0	22.3	2.2	.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	.00	.00	.14	.23	.32	.41	.51	.64	.80	1.06	1.31
Feb	.00	.02	.08	.14	.22	.30	.40	.53	.71	1.01	1.31
Mar	.00	.00	.08	.19	.31	.45	.61	.83	1.13	1.62	2.12
Apr	.02	.07	.16	.25	.34	.45	.57	.73	.95	1.31	1.66
May	.00	.08	.20	.30	.41	.52	.65	.81	1.02	1.36	1.70
Jun	.00	.00	.05	.10	.16	.22	.31	.41	.56	.81	1.07
Jul	.02	.05	.12	.22	.33	.47	.66	.90	1.25	1.86	2.48
Aug	.01	.04	.12	.21	.31	.44	.60	.81	1.11	1.62	2.14
Sep	.00	.10	.24	.35	.47	.60	.74	.90	1.13	1.50	1.85
Oct	.01	.06	.16	.29	.45	.64	.87	1.17	1.60	2.35	3.11
Nov	.00	.00	.10	.18	.26	.35	.46	.58	.75	1.04	1.31
Dec	.00	.02	.07	.12	.17	.23	.31	.40	.52	.74	.95
Ann	3.95	4.51	5.25	5.83	6.36	6.88	7.44	8.06	8.83	9.98	11.00

\+ 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	4.8	4.0	2	1	7.0	1978	23	26.0	1979	17	1979	31	11	1979	2.2	2.0	.7	.2	.0	10.6	7.2	3.2	.8
Feb	.8	.0	1	0	6.0	1989	4	6.0	1989	17	1979	1	12	1979	.4	.3	.1	@	.0	4.7	2.8	1.3	.2
Mar	.4	.0	#	0	5.0	1985	28	5.0	1985	1	1976	4	#+	1988	.1	.1	@	@	.0	.0	.0	.0	.0
Apr	#	.0	#	0	#	1999	9	#+	1999	#+	1998	2	#+	1998	.0	.0	.0	.0	.0	.0	.0	.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	#	1991	14	#	1991	.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	.1	.0	#	0	2.0	1971	29	2.0	1971	#+	1991	29	#+	1991	@	@	.0	.0	.0	.0	.0	.0	.0
Nov	.4	.0	#	0	3.0	1975	28	4.0	1975	1	1981	29	#+	1994	.2	.2	.1	.0	.0	.1	.0	.0	.0
Dec	2.7	.0	#	#	8.0	1972	28	12.7	1972	8	1983	25	1	1992	1.0	1.0	.4	.1	.0	2.3	.8	.2	.0
Ann	9.2	4.0	N/A	N/A	8.0	Dec 1972	28	26.0	Jan 1979	17+	Feb 1979	1	12	Feb 1979	3.9	3.6	1.3	.3	.0	17.7	10.8	4.7	1.0

+ 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	6/04	5/28	5/24	5/20	5/17	5/13	5/09	5/05	4/28
32	5/19	5/14	5/09	5/06	5/02	4/29	4/26	4/21	4/16
28	5/02	4/27	4/23	4/19	4/16	4/13	4/09	4/05	3/31
24	4/21	4/15	4/10	4/07	4/03	3/30	3/27	3/22	3/16
20	4/12	4/04	3/29	3/24	3/19	3/14	3/09	3/03	2/23
16	3/27	3/18	3/12	3/06	3/01	2/24	2/19	2/12	2/04

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	9/19	9/22	9/24	9/26	9/28	9/30	10/02	10/06
32	9/20	9/25	9/29	10/02	10/05	10/08	10/11	10/15	10/20
28	10/01	10/06	10/10	10/14	10/17	10/20	10/23	10/27	11/02
24	10/18	10/22	10/25	10/28	10/31	11/02	11/05	11/08	11/13
20	10/24	10/29	11/01	11/04	11/06	11/09	11/12	11/15	11/19
16	11/01	11/07	11/11	11/14	11/17	11/21	11/24	11/28	12/03

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	152	145	140	136	132	127	123	118	111
32	177	170	164	159	155	150	146	140	132
28	207	199	193	188	183	178	173	167	159
24	236	227	220	215	210	205	199	193	184
20	262	251	244	238	232	226	219	212	201
16	294	283	274	267	261	254	247	238	227

***** 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	1233	861	594	332	109	14	0	0	56	358	773	1112	5442
60	1087	731	441	209	42	3	0	0	16	224	623	957	4333
57	999	652	354	150	20	0	0	0	6	156	533	864	3734
55	941	600	297	116	11	0	0	0	3	118	474	802	3362
50	800	477	176	51	2	0	0	0	0	50	329	647	2532
32	375	160	7	0	0	0	0	0	0	0	17	172	731

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	165	222	436	670	979	1236	1476	1400	1051	671	234	84	8624
55	19	19	13	96	277	546	763	687	363	76	1	0	2860
57	14	15	7	70	224	486	701	625	307	52	0	0	2501
60	9	9	1	40	153	399	608	532	227	27	0	0	2005
65	0	0	0	12	66	261	453	378	116	6	0	0	1292
70	0	0	0	2	19	147	299	228	44	1	0	0	740

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	38	190	419	721	986	1217	1137	806	426	72	5	0	38	228	647	1368	2354	3571	4708	5514	5940	6012	6017
45	0	6	86	279	566	836	1062	982	656	284	22	0	0	6	92	371	937	1773	2835	3817	4473	4757	4779	4779
50	0	0	27	161	412	686	907	827	506	158	3	0	0	0	27	188	600	1286	2193	3020	3526	3684	3687	3687
55	0	0	5	72	272	537	752	672	359	66	0	0	0	0	5	77	349	886	1638	2310	2669	2735	2735	2735
60	0	0	0	24	150	388	597	517	222	15	0	0	0	0	0	24	174	562	1159	1676	1898	1913	1913	1913
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	9	58	180	312	474	598	730	695	524	336	101	8	9	67	247	559	1033	1631	2361	3056	3580	3916	4017	4025

(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