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: FAIRFIELD, UT **COOP ID: 422696**

Climate Division: UT 3 **NWS Call Sign:** **Elevation: 4,880 Feet** **Lat: 40˚16N** **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	38.4	12.4	25.4	63	1987	27	33.3	1998	-29+	1960	4	16.8	1984	1228	0	.0	.0	3.1	8.5	29.9	6.0
Feb	44.4	17.1	30.8	70	1972	28	38.9	1995	-36	1989	6	20.5	1984	959	0	.0	.0	7.5	2.9	26.7	2.8
Mar	54.0	25.2	39.6	77	1986	28	45.1	1986	-11	1966	4	33.9	1984	789	0	.0	.0	19.7	.3	25.9	.1
Apr	62.5	29.6	46.1	85+	1992	26	52.2	1992	10+	1959	16	39.1	1975	570	0	.0	.0	25.8	.0	19.3	.0
May	72.0	37.0	54.5	91+	1951	27	59.5	1992	16	1967	3	50.7	1995	328	4	.0	.2	30.6	.0	8.3	.0
Jun	82.5	44.0	63.3	99+	1954	23	67.8	1988	17	1959	27	58.4	1993	110	57	.0	5.4	30.0	.0	1.4	.0
Jul	89.3	50.9	70.1	101+	2000	31	73.0	1989	32	1987	19	64.5	1993	11	168	.2	15.0	31.0	.0	@	.0
Aug	87.9	49.2	68.6	100+	1994	4	72.2	1994	27	1962	31	65.4	1975	25	136	.1	11.8	31.0	.0	.3	.0
Sep	79.2	39.9	59.6	97	2000	16	65.3	1990	16	1956	23	55.2	1971	190	26	.0	2.2	30.0	.0	6.2	.0
Oct	66.5	29.7	48.1	88+	1979	1	53.8	1988	4	1971	30	43.9	1984	523	0	.0	.0	28.2	.1	21.1	.0
Nov	50.6	21.0	35.8	78	1950	6	40.9	1981	-20	1955	16	28.7	2000	876	0	.0	.0	15.0	1.5	26.9	.7
Dec	40.0	13.2	26.6	70	1995	1	32.8	1977	-29	1990	23	18.9	1990	1190	0	.0	.0	4.5	6.7	30.1	3.8
Ann	63.9	30.8	47.4	101+	Jul 2000	31	73.0	Jul 1989	-36	Feb 1989	6	16.8	Jan 1984	6799	391	.3	34.6	256.4	20.0	196.1	13.4

\+ 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: 1950-2001

(3) Derived from 1971-2000 serially complete daily data

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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	1.15	1.09	.85+	1952	24	2.92	1997	.25	1994
Feb	1.17	.98	1.03	1980	18	3.29	1980	.06	1988
Mar	1.19	1.06	1.31	1978	3	3.86	1978	.17	1972
Apr	1.16	1.05	1.01	1984	1	2.69	1999	.07	1992
May	1.29	.99	2.00	1991	15	3.41	1991	.02	1974
Jun	.72	.54	.98	1975	7	2.90	1975	.00	1994
Jul	1.09	.83	1.50	1985	12	5.23	1985	.04	1978
Aug	1.09	.61	1.26	1977	5	4.77	1983	.03	1974
Sep	1.06	.79	1.13	1991	7	5.29	1982	.00	1979
Oct	1.31	1.36	1.55	1979	20	3.02	1981	.00	1999
Nov	1.04	1.00	1.03	1996	22	2.70	1973	.10	1976
Dec	.84	.57	.77	1951	29	3.08	1983	.05	1976
Ann	13.11	13.50	2.00	May 1991	15	5.29	Sep 1982	.00+	Oct 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.3	3.8	.3	.0
Feb	7.5	3.9	.4	@
Mar	9.6	3.8	.3	.1
Apr	9.1	3.9	.4	@
May	9.1	3.8	.5	.1
Jun	5.0	2.2	.2	.0
Jul	6.1	2.7	.5	.1
Aug	7.5	3.1	.5	.1
Sep	6.0	2.6	.5	.1
Oct	7.3	3.7	.5	.1
Nov	8.0	3.3	.4	@
Dec	7.2	2.9	.2	.0
Ann	90.7	39.7	4.7	.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	.36	.46	.63	.77	.90	1.04	1.19	1.37	1.61	1.97	2.30
Feb	.12	.21	.37	.53	.71	.91	1.14	1.43	1.83	2.49	3.14
Mar	.28	.39	.56	.72	.88	1.04	1.23	1.45	1.74	2.20	2.63
Apr	.22	.33	.50	.66	.82	.99	1.18	1.42	1.73	2.23	2.70
May	.15	.25	.43	.61	.80	1.01	1.26	1.57	1.99	2.69	3.37
Jun	.01	.05	.14	.24	.36	.49	.66	.87	1.18	1.69	2.21
Jul	.06	.13	.26	.41	.57	.77	1.01	1.31	1.74	2.46	3.19
Aug	.07	.13	.27	.41	.58	.78	1.02	1.32	1.74	2.47	3.18
Sep	.05	.13	.29	.44	.61	.80	1.03	1.30	1.69	2.32	2.95
Oct	.07	.20	.40	.59	.80	1.02	1.29	1.61	2.05	2.78	3.49
Nov	.15	.23	.38	.52	.68	.84	1.03	1.27	1.59	2.10	2.60
Dec	.10	.16	.28	.39	.52	.66	.82	1.02	1.29	1.75	2.19
Ann	7.28	8.30	9.67	10.75	11.73	12.70	13.72	14.88	16.30	18.43	20.32

\+ 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: 1950-2001
(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	10.2	9.5	4	3
Feb	6.2	5.5	4	2
Mar	4.3	3.0	1	#
Apr	2.1	1.0	#	0
May	.2	.0	#	0
Jun	.0	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	#	0
Oct	1.1	.0	#	0
Nov	4.5	2.0	1	#
Dec	7.7	6.3	2	2
Ann	36.3	27.3	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	12.0	1980	29	29.8	1993	17	1993	13	12	1993
Feb	6.0	1982	3	17.0	1990	16	1984	17	13	1993
Mar	6.0	1980	24	13.0	1980	13	1993	3	7	1984
Apr	6.0	1984	1	20.0	1984	6	1984	1	#+	1999
May	1.0	1975	21	2.0	1983	2	1975	20	#+	1999
Jun	.0	0	0	.0	0	#	1998	11	#	1998
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.5	1978	18	.5	1978	#+	2000	21	#+	2000
Oct	4.0	1972	29	6.0+	1984	4	1972	29	1	1971
Nov	10.0	1983	20	18.0	1983	8	1983	21	2	1994
Dec	8.0	1971	3	32.0	1983	15	1983	28	7	1971
Ann	12.0	Jan 1980	29	32.0	Dec 1983	17	Jan 1993	13	13	Feb 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	5.1	4.0	1.3	.4	@
Feb	3.5	2.7	.8	.3	.0
Mar	3.0	2.1	.5	.1	.0
Apr	1.3	.9	.3	.1	.0
May	.2	.1	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.1	.0	.0	.0	.0
Oct	.6	.5	.1	.0	.0
Nov	2.6	2.0	.4	.1	@
Dec	4.5	3.4	.7	.2	.0
Ann	20.9	15.7	4.1	1.2	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	16.1	11.4	8.2	3.0
Feb	10.6	8.6	7.1	3.3
Mar	3.5	2.6	1.6	.6
Apr	.2	.1	@	.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	.3	.1	.0	.0
Nov	4.0	2.0	.6	.0
Dec	13.3	6.2	2.3	.5
Ann	48.0	31.0	19.8	7.4

+ 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	6/19	6/15	6/11	6/05
32	6/26	6/20	6/15	6/11	6/07	6/04	5/31	5/26	5/20
28	6/08	6/01	5/27	5/23	5/20	5/16	5/12	5/07	5/01
24	5/20	5/14	5/10	5/06	5/03	4/29	4/26	4/21	4/15
20	5/05	4/29	4/25	4/21	4/18	4/14	4/10	4/06	3/31
16	4/23	4/14	4/07	4/01	3/27	3/21	3/16	3/09	2/27

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	8/12	8/19	8/25	8/29	9/02	9/06	9/11	9/16	9/23
32	8/25	8/31	9/05	9/08	9/12	9/15	9/19	9/23	9/29
28	9/11	9/15	9/18	9/21	9/24	9/26	9/29	10/02	10/06
24	9/19	9/24	9/28	10/01	10/04	10/07	10/11	10/14	10/20
20	10/02	10/07	10/11	10/14	10/17	10/20	10/23	10/27	11/02
16	10/19	10/24	10/27	10/30	11/02	11/05	11/08	11/12	11/17

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	99	90	83	77	72	66	60	53	44
32	121	113	106	101	96	91	85	79	70
28	147	140	134	130	126	122	118	113	106
24	177	169	163	158	154	149	145	139	131
20	206	197	192	186	182	177	172	166	158
16	250	240	232	226	220	214	207	200	189

***** 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	1228	959	789	570	328	110	11	25	190	523	876	1190	6799
60	1073	819	634	424	193	41	1	4	91	370	726	1035	5411
57	980	735	541	341	128	18	0	1	51	281	636	942	4654
55	918	679	479	288	93	10	0	0	32	225	576	880	4180
50	768	546	332	173	33	1	0	0	7	110	429	725	3124
32	295	154	21	4	0	0	0	0	0	0	60	217	751

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	90	119	256	424	699	937	1180	1134	826	500	175	51	6391
55	0	0	0	18	78	257	467	421	168	12	0	0	1421
57	0	0	0	11	51	205	405	359	127	5	0	0	1163
60	0	0	0	4	24	138	313	269	77	1	0	0	826
65	0	0	0	0	4	57	168	136	26	0	0	0	391
70	0	0	0	0	0	15	61	45	5	0	0	0	126

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	15	82	208	450	696	933	888	592	272	49	4	0	15	97	305	755	1451	2384	3272	3864	4136	4185	4189
45	0	0	27	104	302	546	778	733	443	151	14	0	0	0	27	131	433	979	1757	2490	2933	3084	3098	3098
50	0	0	3	43	173	398	623	578	301	65	0	0	0	0	3	46	219	617	1240	1818	2119	2184	2184	2184
55	0	0	0	12	82	255	468	423	176	14	0	0	0	0	0	12	94	349	817	1240	1416	1430	1430	1430
60	0	0	0	0	21	139	315	269	78	0	0	0	0	0	0	0	21	160	475	744	822	822	822	822
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	1	24	94	193	342	474	598	578	442	268	73	8	1	25	119	312	654	1128	1726	2304	2746	3014	3087	3095

(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