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: FARMINGTON COURTHOUSE, UT **COOP ID: 422726**

Climate Division: UT 3 **NWS Call Sign:** **Elevation: 4,390 Feet** **Lat: 40˚59N** **Lon: 111˚53W**

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	37.9	18.6	28.3	60+	1970	23	35.1+	1998	-14	1973	5	19.9	1973	1138	0	.0	.0	3.3	8.1	28.5	1.0
Feb	44.2	22.8	33.5	69+	1972	28	40.4	1995	-9+	1966	11	24.5	1984	882	0	.0	.0	8.5	2.5	23.6	.4
Mar	52.7	29.6	41.2	78	1986	28	46.8	1986	5	1971	2	34.7	1976	740	0	.0	.0	20.7	.1	17.4	.0
Apr	61.1	36.9	49.0	87+	1992	29	56.6	1992	16	1975	2	42.0	1975	486	6	.0	.0	27.0	@	8.3	.0
May	71.7	44.9	58.3	93	1967	23	63.9	1992	25+	1965	6	52.9	1975	230	22	.0	.3	30.6	.0	1.0	.0
Jun	83.0	53.0	68.0	102	1990	30	74.8	1988	32	1976	13	61.3	1998	69	158	.4	9.2	30.0	.0	@	.0
Jul	91.6	60.0	75.8	105	1998	18	80.2	2000	41	1974	4	67.3	1993	4	338	1.5	21.7	31.0	.0	.0	.0
Aug	89.7	58.2	74.0	104	1994	4	78.7	2000	39	1976	27	70.1	1976	5	283	.5	18.3	31.0	.0	.0	.0
Sep	79.6	49.0	64.3	99	1995	2	69.7	1990	28	1970	25	59.6	1971	98	77	.0	3.5	30.0	.0	.4	.0
Oct	66.5	37.4	52.0	89	1996	11	58.5	1988	14	1971	30	46.9	1971	407	2	.0	.0	28.8	@	5.4	.0
Nov	50.8	28.0	39.4	77	1999	7	46.8	1995	3	1993	27	32.9	1994	769	0	.0	.0	15.9	.9	20.3	.0
Dec	39.8	20.2	30.0	68	1995	1	37.3	1995	-12+	1972	11	21.0	1990	1085	0	.0	.0	3.3	5.4	28.3	.7
Ann	64.1	38.2	51.2	105	Jul 1998	18	80.2	Jul 2000	-14	Jan 1973	5	19.9	Jan 1973	5913	886	2.4	53.0	260.1	17.0	133.2	2.1

\+ 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	2.18	1.88	1.31	1995	15	4.25	1993	.57	1976
Feb	2.08	1.73	2.36	2001	20	4.82	1998	.05	1988
Mar	2.62	2.46	1.85	1968	17	6.36	1983	.47	1999
Apr	2.68	2.64	2.33	1974	10	6.39	1986	.30	1992
May	2.98	2.60	1.91	1968	23	6.78	1977	.06	1972
Jun	1.27	1.07	1.83	1998	4	5.39	1998	.00+	1994
Jul	.92	.82	1.68	2001	10	3.26	1973	.00	1994
Aug	.88	.53	3.14	2000	31	3.27	2000	.00	1996
Sep	1.58	1.26	1.93	1970	6	7.59	1982	.03+	1975
Oct	2.15	2.33	1.77	1983	2	4.44	1981	.00+	1999
Nov	2.03	1.81	1.59	1949	10	5.24	1988	.06	1976
Dec	1.89	1.57	1.91	1985	8	7.94	1983	.09	1976
Ann	23.26	23.16	3.14	Aug 2000	31	7.94	Dec 1983	.00+	Oct 1999

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.6	5.9	1.3	.1
Feb	7.9	5.1	1.2	.2
Mar	9.2	6.3	1.7	.4
Apr	9.0	6.3	2.0	.3
May	8.8	5.7	2.4	.6
Jun	4.5	2.6	.8	.3
Jul	3.7	2.1	.6	.1
Aug	3.9	2.2	.4	.2
Sep	5.0	3.4	1.1	.3
Oct	6.1	4.3	1.6	.4
Nov	7.5	5.1	1.4	.2
Dec	7.9	5.0	1.0	.1
Ann	83.1	54.0	15.5	3.2

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	.72	.93	1.23	1.49	1.74	1.99	2.27	2.60	3.02	3.67	4.26
Feb	.39	.58	.88	1.17	1.45	1.76	2.11	2.54	3.10	4.00	4.86
Mar	.66	.90	1.28	1.62	1.95	2.31	2.70	3.16	3.77	4.74	5.64
Apr	.48	.72	1.11	1.48	1.85	2.25	2.71	3.27	4.01	5.20	6.34
May	.61	.88	1.32	1.72	2.12	2.55	3.04	3.63	4.40	5.64	6.82
Jun	.00	.06	.23	.42	.63	.88	1.17	1.55	2.07	2.97	3.85
Jul	.02	.07	.18	.31	.46	.63	.84	1.11	1.49	2.15	2.80
Aug	.01	.05	.14	.26	.40	.57	.78	1.05	1.44	2.13	2.82
Sep	.05	.12	.29	.49	.73	1.03	1.40	1.88	2.58	3.78	5.00
Oct	.00	.32	.73	1.08	1.42	1.79	2.20	2.69	3.35	4.42	5.44
Nov	.36	.54	.84	1.11	1.40	1.70	2.05	2.48	3.04	3.95	4.82
Dec	.27	.42	.69	.96	1.23	1.54	1.89	2.31	2.89	3.84	4.75
Ann	14.52	16.13	18.23	19.86	21.33	22.77	24.26	25.94	27.99	31.01	33.66

\+ 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	12.8	12.8	5	5	10.2	1993	11	20.5	1980	31	1993	11	20	1993	5.6	4.3	2.1	.8	@	22.5	18.8	14.5	4.6
Feb	8.3	8.6	4	2	8.2	1998	26	20.4	1985	19	1993	25	16	1993	3.1	2.5	1.3	.6	.0	12.0	9.3	6.6	3.7
Mar	5.4	3.3	1	#	7.9	1998	6	14.0	1977	15+	1993	1	10	1984	1.6	1.4	.7	.3	.0	3.4	2.0	1.0	.2
Apr	1.8	.0	#	0	10.0	1974	10	11.5	1974	10	1974	10	1+	1999	.5	.5	.2	.1	@	.6	.4	.2	@
May	.4	.0	#	0	5.0	1975	4	7.8	1975	5	1975	4	#+	2000	.1	.1	@	@	.0	.1	.1	@	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.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	.1	.0	#	0	4.2	1971	30	4.2	1971	4	1971	30	#	1971	@	@	@	.0	.0	@	@	.0	.0
Oct	.7	.0	#	0	9.0	1971	31	13.8	1971	9	1971	31	1	1971	.2	.2	.1	@	.0	.2	.1	@	.0
Nov	5.8	3.5	1	#	5.5	1985	18	26.4	1994	10	1992	23	3+	2000	2.1	1.9	.9	.3	.0	4.6	2.9	1.3	@
Dec	13.6	12.2	3	2	15.1	1985	8	33.9	1971	23	1983	28	7	1972	4.5	3.8	1.8	.9	.1	15.5	10.1	6.4	1.2
Ann	48.9	40.4	N/A	N/A	15.1	Dec 1985	8	33.9	Dec 1971	31	Jan 1993	11	20	Jan 1993	17.7	14.7	7.1	3.0	.1	58.9	43.7	30.0	9.7

+ 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	6/03	5/28	5/24	5/20	5/17	5/13	5/10	5/05	4/29
32	5/24	5/16	5/10	5/05	5/01	4/26	4/21	4/15	4/07
28	5/06	4/27	4/20	4/15	4/10	4/04	3/30	3/23	3/14
24	4/15	4/08	4/02	3/28	3/23	3/19	3/14	3/08	3/01
20	4/03	3/25	3/20	3/15	3/10	3/05	2/28	2/22	2/14
16	3/21	3/13	3/06	3/01	2/24	2/19	2/14	2/08	1/30

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

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	162	153	147	142	137	132	126	120	111
32	195	184	176	170	164	157	151	143	132
28	231	221	213	206	200	194	187	180	169
24	259	249	241	235	229	224	217	210	200
20	284	273	266	259	253	247	241	233	222
16	310	299	291	284	277	271	264	256	244

***** 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	1138	882	740	486	230	69	4	5	98	407	769	1085	5913
60	983	742	585	350	122	25	0	0	37	264	619	930	4657
57	890	658	494	276	76	12	0	0	17	190	531	837	3981
55	828	602	434	232	52	7	0	0	9	147	473	775	3559
50	674	467	292	141	16	0	0	0	1	67	336	620	2614
32	209	96	15	5	0	0	0	0	0	0	38	154	517

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	94	138	298	515	815	1080	1358	1301	970	618	259	91	7537
55	0	0	4	52	154	397	645	588	289	52	4	0	2185
57	0	0	2	36	116	342	583	526	236	33	2	0	1876
60	0	0	0	20	70	265	490	433	167	14	0	0	1459
65	0	0	0	6	22	158	338	283	77	2	0	0	886
70	0	0	0	0	4	81	199	151	26	0	0	0	461

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	5	39	147	329	590	864	1128	1078	748	409	98	15	5	44	191	520	1110	1974	3102	4180	4928	5337	5435	5450
45	0	8	69	204	439	714	973	923	598	269	41	3	0	8	77	281	720	1434	2407	3330	3928	4197	4238	4241
50	0	0	17	110	297	564	818	768	451	152	10	0	0	0	17	127	424	988	1806	2574	3025	3177	3187	3187
55	0	0	1	48	176	419	663	613	314	67	0	0	0	0	1	49	225	644	1307	1920	2234	2301	2301	2301
60	0	0	0	17	90	280	508	458	187	18	0	0	0	0	0	17	107	387	895	1353	1540	1558	1558	1558
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	1	24	101	217	374	548	718	692	485	272	69	7	1	25	126	343	717	1265	1983	2675	3160	3432	3501	3508

(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