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: SCIPIO, UT **COOP ID: 427714**

Climate Division: UT 4 **NWS Call Sign:** **Elevation: 5,315 Feet** **Lat: 39˚15N** **Lon: 112˚06W**

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	37.2	11.6	24.4	65	1986	31	33.0	2000	-40+	1937	9	12.7	1989	1259	0	.0	.0	4.1	7.3	30.0	6.0
Feb	43.9	17.6	30.8	70+	1972	28	38.9	1986	-38	1989	6	20.1	1989	959	0	.0	.0	8.7	2.5	25.9	2.3
Mar	52.3	24.8	38.6	78	1997	20	44.1	1978	-17	1976	5	33.1	1976	821	0	.0	.0	21.0	.3	25.2	.3
Apr	60.8	30.5	45.7	89	1977	27	50.6	1992	3	1975	2	39.7	1999	581	0	.0	.0	26.6	.0	18.8	.0
May	71.3	38.7	55.0	96	1933	30	59.2	1992	15	1972	1	50.2	1995	317	7	.0	.2	30.5	.0	10.2	.0
Jun	82.0	46.7	64.4	100+	1954	23	69.9	1977	22	1976	14	59.1	1998	99	80	.0	6.8	30.0	.0	1.2	.0
Jul	89.4	55.2	72.3	107	1998	18	75.0	1989	28	1932	14	67.8	1993	5	231	.7	18.6	31.0	.0	.0	.0
Aug	87.2	53.5	70.4	103	1932	7	74.3	2000	28	1992	27	66.9	1974	13	178	.3	14.0	31.0	.0	.1	.0
Sep	78.3	42.6	60.5	99	1932	18	65.5	1990	8	1965	18	56.1	1986	166	29	.0	2.0	29.9	.0	4.5	.0
Oct	65.7	30.7	48.2	88+	1996	10	53.6	1988	0+	1971	30	43.8	1984	521	0	.0	.0	28.7	.1	19.5	.1
Nov	50.0	21.8	35.9	77	1934	9	41.8	1981	-24	1977	20	29.0	1994	872	0	.0	.0	16.8	1.7	26.1	.6
Dec	38.8	12.1	25.5	69	1981	8	35.2	1977	-36+	1972	10	15.5	1990	1226	0	.0	.0	5.2	6.3	30.2	3.9
Ann	63.1	32.2	47.6	107	Jul 1998	18	75.0	Jul 1989	-40+	Jan 1937	9	12.7	Jan 1989	6839	525	1.0	41.6	263.5	18.2	191.7	13.2

\+ 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	1.31	1.16	1.45	1952	25	4.71	1993	.20	1994
Feb	1.34	1.07	1.43	1959	12	4.40	1980	.22	1988
Mar	1.33	1.16	1.20	1949	29	2.68	1982	.10	1972
Apr	1.21	1.07	.90	1931	23	3.37	1999	.00	1992
May	1.44	1.16	2.27	1975	20	3.53	1980	.14	1974
Jun	.66	.51	1.88	1936	1	3.74	1984	.00+	1991
Jul	.85	.72	1.24	1936	10	2.32	1984	.02	2000
Aug	1.13	.92	1.70	1983	17	3.91	1983	.07	1974
Sep	1.10	.92	1.43	1982	27	4.79	1982	.00+	1979
Oct	1.54	1.26	1.70	1972	31	4.69	1981	.03	1995
Nov	1.25	1.04	1.20	1996	22	3.53	1983	.14	1999
Dec	1.03	.98	2.62	1966	6	3.77	1983	.00	1986
Ann	14.19	14.35	2.62	Dec 1966	6	4.79	Sep 1982	.00+	Apr 1992

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.3	4.1	.6	.1
Feb	6.1	4.3	.6	.1
Mar	6.6	4.6	.5	@
Apr	5.8	4.2	.6	.0
May	6.7	4.3	.7	.1
Jun	3.8	2.1	.3	@
Jul	4.2	2.9	.3	.0
Aug	5.4	3.0	.4	.1
Sep	4.8	3.1	.7	.1
Oct	5.3	4.2	1.0	.1
Nov	5.3	4.0	.6	@
Dec	4.8	3.4	.4	.1
Ann	65.1	44.2	6.7	.7

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	.20	.31	.50	.68	.87	1.08	1.31	1.60	1.99	2.62	3.23
Feb	.22	.34	.53	.71	.90	1.11	1.35	1.63	2.02	2.64	3.24
Mar	.23	.34	.54	.72	.91	1.11	1.34	1.63	2.00	2.61	3.20
Apr	.14	.28	.49	.66	.84	1.03	1.24	1.50	1.84	2.38	2.90
May	.23	.35	.56	.76	.96	1.19	1.44	1.76	2.18	2.86	3.51
Jun	.00	.00	.09	.21	.33	.47	.63	.83	1.10	1.55	2.00
Jul	.10	.16	.28	.40	.53	.67	.83	1.04	1.31	1.77	2.22
Aug	.14	.23	.39	.55	.71	.90	1.11	1.38	1.74	2.33	2.91
Sep	.00	.17	.38	.56	.73	.92	1.13	1.38	1.72	2.26	2.78
Oct	.21	.34	.56	.77	.99	1.24	1.53	1.88	2.36	3.13	3.88
Nov	.24	.35	.53	.70	.87	1.06	1.27	1.52	1.86	2.40	2.91
Dec	.09	.21	.38	.53	.68	.85	1.04	1.27	1.58	2.08	2.55
Ann	8.57	9.59	10.93	11.98	12.93	13.85	14.83	15.91	17.25	19.23	20.97

\+ 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	9.3	6.0	5	2
Feb	5.0	3.5	4	#
Mar	3.8	1.5	#	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	.0	0	0
Nov	5.2	3.0	#	0
Dec	3.5	1.0	2	#
Ann	28.0	15.0	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	1977	4	27.3	1974	18	1993	13	15	1993
Feb	9.0	1989	4	14.5	1989	21	1990	18	12	1989
Mar	9.0	1985	27	24.0	1985	9	1985	27	4	1976
Apr	3.8	1991	12	6.5	1984	3	1999	1	#	1999
May	.0	0	0	.0	0	11	1975	20	11	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	.0	0	0	.0	0	0	0	0	0	0
Oct	2.0	1991	29	3.5	1991	0	0	0	0	0
Nov	12.0	1983	21	18.5	1983	12	1977	19	1	1994
Dec	12.0	1988	23	16.0	1982	15	1988	23	12	1992
Ann	12.0+	Dec 1988	23	27.3	Jan 1974	21	Feb 1990	18	15	Jan 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	2.7	2.6	1.8	.4	.0
Feb	2.0	1.8	1.0	.4	.0
Mar	1.1	.9	.5	.2	.0
Apr	.4	.3	.2	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.1	.1	.0	.0	.0
Nov	1.2	1.2	.8	.5	@
Dec	1.7	1.5	.8	.4	.1
Ann	9.2	8.4	5.1	1.9	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9
Mar	.9	.7	.1	.0
Apr	.3	.1	.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	.0	.0	.0	.0
Nov	.9	.6	.3	.0
Dec	-9.9	-9.9	-9.9	-9.9
Ann	-9.9	-9.9	-9.9	-9.9

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	6/26	6/22	6/18	6/15	6/11	6/08	6/03	5/28
32	6/18	6/12	6/08	6/04	5/31	5/28	5/24	5/20	5/14
28	6/09	6/03	5/30	5/26	5/22	5/19	5/15	5/11	5/05
24	5/22	5/16	5/11	5/07	5/04	4/30	4/26	4/22	4/15
20	5/11	5/03	4/27	4/22	4/17	4/12	4/07	4/01	3/24
16	4/23	4/12	4/04	3/28	3/22	3/16	3/09	3/01	2/18

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	8/22	8/28	9/01	9/05	9/08	9/11	9/15	9/19	9/25
32	9/02	9/08	9/12	9/15	9/18	9/21	9/24	9/28	10/04
28	9/10	9/15	9/19	9/22	9/25	9/28	10/01	10/04	10/09
24	9/22	9/27	10/02	10/05	10/08	10/12	10/15	10/19	10/25
20	10/07	10/12	10/16	10/19	10/22	10/26	10/29	11/02	11/07
16	10/20	10/25	10/29	11/01	11/04	11/08	11/11	11/15	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	110	101	95	90	85	80	75	68	60
32	132	124	119	114	109	104	99	94	86
28	144	138	133	129	125	121	117	112	105
24	183	174	167	162	157	152	146	140	131
20	221	210	202	194	188	181	174	166	154
16	265	252	242	234	227	219	211	201	188

***** 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	1259	959	821	581	317	99	5	13	166	521	872	1226	6839
60	1104	819	666	433	188	39	0	1	75	369	722	1071	5487
57	1011	735	573	348	125	18	0	0	40	283	632	978	4743
55	949	679	511	294	91	10	0	0	24	230	572	916	4276
50	803	544	359	175	33	2	0	0	5	120	426	761	3228
32	335	152	25	3	0	0	0	0	0	1	63	279	858

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	99	117	227	412	713	971	1249	1188	853	502	182	77	6590
55	0	0	0	13	91	291	536	475	187	19	0	0	1612
57	0	0	0	7	63	239	474	413	143	10	0	0	1349
60	0	0	0	2	32	170	382	322	88	3	0	0	999
65	0	0	0	0	7	80	231	178	29	0	0	0	525
70	0	0	0	0	1	27	103	70	5	0	0	0	206

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	1	22	98	227	465	736	1009	956	628	296	63	7	1	23	121	348	813	1549	2558	3514	4142	4438	4501	4508
45	0	4	37	122	317	586	854	801	480	170	18	0	0	4	41	163	480	1066	1920	2721	3201	3371	3389	3389
50	0	0	6	53	185	438	699	646	336	85	3	0	0	0	6	59	244	682	1381	2027	2363	2448	2451	2451
55	0	0	0	18	92	297	544	491	204	23	0	0	0	0	0	18	110	407	951	1442	1646	1669	1669	1669
60	0	0	0	3	31	171	391	336	99	4	0	0	0	0	0	3	34	205	596	932	1031	1035	1035	1035
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	4	27	105	209	360	499	643	618	454	274	86	12	4	31	136	345	705	1204	1847	2465	2919	3193	3279	3291

(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