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: PARTOUN, UT **COOP ID: 426708**

Climate Division: UT 5 **NWS Call Sign:** **Elevation: 4,780 Feet** **Lat: 39˚38N** **Lon: 113˚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	39.2	15.0	27.1	69	1959	24	35.3	1998	-23	1971	6	16.2	1984	1175	0	.0	.0	6.4	7.5	30.1	3.9
Feb	46.0	20.5	33.3	74+	1951	10	40.4	1995	-29	1989	6	21.6	1984	888	0	.0	.0	11.7	2.9	26.5	1.5
Mar	55.6	27.8	41.7	79+	1986	28	47.2	1986	-2+	1965	4	35.0	1977	724	0	.0	.0	23.7	.1	23.8	.0
Apr	63.8	33.3	48.6	88	2000	27	54.9	1992	10	1966	20	40.5	1975	496	2	.0	.0	27.8	.0	14.9	.0
May	73.7	41.2	57.5	97	1997	31	62.2	2000	16+	1965	7	51.8	1975	255	21	.0	1.3	30.8	.0	4.0	.0
Jun	85.6	49.7	67.7	105+	1961	21	72.3	1977	21	1979	18	62.2	1995	62	141	1.1	12.0	30.0	.0	.4	.0
Jul	93.6	56.3	75.0	107	1976	9	77.4	1989	36	1968	1	71.4	1993	1	310	4.4	26.1	31.0	.0	.0	.0
Aug	91.4	54.7	73.1	105	2000	1	76.3	1986	31+	1964	30	69.6	1980	4	254	1.7	21.5	31.0	.0	.1	.0
Sep	81.0	45.5	63.3	100+	1955	5	67.5	1990	21+	1986	29	58.4	1986	106	54	@	5.7	29.9	.0	2.1	.0
Oct	67.0	34.5	50.8	90	1996	10	57.3	1988	2	1971	30	45.7	1984	442	1	.0	@	29.4	.1	13.7	.0
Nov	50.9	24.4	37.7	78	1980	7	44.1	1995	-7	1956	20	31.0	2000	819	0	.0	.0	17.4	.7	26.1	.2
Dec	40.8	15.4	28.1	67	1964	23	35.9	1977	-27	1990	22	19.4	1990	1143	0	.0	.0	6.4	5.0	29.9	2.5
Ann	65.7	34.9	50.3	107	Jul 1976	9	77.4	Jul 1989	-29	Feb 1989	6	16.2	Jan 1984	6115	783	7.2	66.6	275.5	16.3	171.6	8.1

+ 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: 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	.47	.38	.77	1988	5	1.62	1997	.00+	1989
Feb	.47	.37	.90	1969	21	1.69	1998	.00	1977
Mar	.59	.53	.95	1996	13	1.50	1996	.00+	1997
Apr	.70	.63	.97	1975	25	1.67	1971	.04+	1992
May	1.06	.84	1.38	1977	16	4.24	1977	.04	1972
Jun	.53	.30	1.47	1964	7	2.68	1995	.00+	1996
Jul	.60	.33	1.30	1987	21	2.66	1975	.00	1991
Aug	.59	.51	1.50	2000	30	2.27	1983	.00+	1978
Sep	.72	.57	1.98	1982	25	4.58	1982	.00+	1987
Oct	.76	.59	1.18	1975	12	2.57	1981	.00+	1999
Nov	.46	.33	.98	1978	1	1.60	1978	.00+	1999
Dec	.23	.16	.74	1951	29	.94	1983	.00+	1989
Ann	7.18	6.85	1.98	Sep 1982	25	4.58	Sep 1982	.00+	Nov 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	4.0	1.5	@	.0
Feb	4.2	1.8	.1	.0
Mar	4.8	2.3	.1	.0
Apr	4.6	2.3	.2	.0
May	5.4	3.1	.5	@
Jun	3.2	1.6	.3	@
Jul	3.5	1.8	.3	.1
Aug	3.4	1.7	.2	.1
Sep	3.1	1.7	.4	.1
Oct	4.0	2.3	.3	.1
Nov	3.0	1.4	.2	.0
Dec	2.9	1.0	.0	.0
Ann	46.1	22.5	2.6	.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	.07	.16	.23	.31	.39	.48	.58	.73	.97	1.19
Feb	.03	.08	.16	.22	.30	.37	.47	.58	.73	.97	1.21
Mar	.00	.00	.21	.31	.41	.51	.62	.76	.92	1.20	1.46
Apr	.05	.10	.19	.29	.39	.51	.66	.84	1.10	1.53	1.96
May	.09	.17	.31	.45	.61	.80	1.01	1.28	1.66	2.29	2.90
Jun	.00	.00	.02	.09	.19	.30	.45	.64	.91	1.38	1.86
Jul	.00	.02	.08	.15	.24	.36	.51	.71	1.00	1.50	2.02
Aug	.00	.04	.13	.22	.32	.43	.57	.73	.96	1.35	1.73
Sep	.00	.00	.11	.22	.35	.49	.66	.88	1.18	1.70	2.21
Oct	.00	.00	.19	.32	.45	.59	.76	.96	1.22	1.66	2.09
Nov	.00	.00	.11	.19	.27	.35	.45	.58	.74	1.01	1.28
Dec	.00	.00	.04	.08	.12	.17	.22	.29	.38	.52	.67
Ann	4.02	4.57	5.31	5.89	6.42	6.95	7.50	8.12	8.88	10.02	11.03

+ 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

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	4.9	4.4	1	#
Feb	3.9	3.0	1	#
Mar	.5	.0	#	0
Apr	.3	.0	#	0
May	#	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	#	0
Oct	.2	.0	#	0
Nov	.5	.0	#	0
Dec	2.2	1.5	#	#
Ann	12.5	8.9	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	6.0	1988	5	12.5	1983	13	1993	18	8	1993
Feb	7.0	2000	24	10.5	1990	11	1993	10	8	1993
Mar	3.5	1990	5	3.5	1990	5	1993	3	1	1993
Apr	3.0	1998	15	3.8	1998	2	1984	1	#+	1998
May	#	1979	8	#	1979	0	0	0	0	0
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	#	1981	8	#	1981
Oct	3.5	2000	30	3.5	2000	2	2000	30	#+	2000
Nov	2.5	2000	9	3.0	2000	7	1985	11	1	1985
Dec	5.0	1980	5	6.8	1991	4+	1996	5	1	1991
Ann	7.0	Feb 2000	24	12.5	Jan 1983	13	Jan 1993	18	8+	Feb 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	2.2	1.8	.6	.2	.0
Feb	1.6	1.4	.3	.2	.0
Mar	.3	.2	.1	.0	.0
Apr	.3	.1	.1	.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	.1	.0	.0
Nov	.4	.3	.0	.0	.0
Dec	1.2	.7	.2	.1	.0
Ann	6.1	4.6	1.4	.5	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	9.5	6.7	3.4	.5
Feb	6.1	3.9	1.9	.2
Mar	.6	.3	.1	.0
Apr	.0	.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	@	.0	.0	.0
Nov	.3	.0	.0	.0
Dec	3.5	.2	.0	.0
Ann	20.0	11.1	5.4	.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	6/20	6/14	6/09	6/06	6/02	5/30	5/26	5/21	5/15
32	6/12	6/05	5/31	5/27	5/24	5/20	5/16	5/11	5/04
28	5/27	5/20	5/15	5/11	5/07	5/03	4/29	4/24	4/17
24	5/11	5/05	4/30	4/27	4/23	4/19	4/15	4/11	4/05
20	4/25	4/18	4/12	4/08	4/04	3/30	3/26	3/20	3/13
16	4/16	4/07	3/31	3/26	3/20	3/15	3/09	3/03	2/21

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

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	127	119	113	108	104	99	94	89	81
32	145	136	131	126	121	116	111	105	97
28	172	164	158	153	149	144	139	133	125
24	197	189	183	179	174	170	165	159	151
20	234	224	217	211	206	200	195	188	178
16	262	251	243	236	230	224	217	209	198

***** 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	1175	888	724	496	255	62	1	4	106	442	819	1143	6115
60	1020	748	569	356	143	21	0	0	38	295	669	988	4847
57	927	664	478	279	92	10	0	0	17	216	579	895	4157
55	865	608	418	232	66	5	0	0	8	170	520	833	3725
50	718	475	280	136	22	0	0	0	1	80	376	678	2766
32	262	108	16	3	0	0	0	0	0	0	41	190	620

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	111	144	316	499	789	1069	1332	1273	938	582	212	70	7335
55	0	0	5	38	141	384	619	560	256	39	1	0	2043
57	0	0	2	25	106	329	557	498	204	23	0	0	1744
60	0	0	0	13	63	250	464	405	136	9	0	0	1340
65	0	0	0	2	21	141	310	254	54	1	0	0	783
70	0	0	0	0	4	64	163	123	13	0	0	0	367

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	6	32	128	281	558	841	1094	1035	706	349	72	8	6	38	166	447	1005	1846	2940	3975	4681	5030	5102	5110
45	0	6	54	163	408	691	939	880	556	217	24	1	0	6	60	223	631	1322	2261	3141	3697	3914	3938	3939
50	0	0	15	75	265	541	784	725	411	110	4	0	0	0	15	90	355	896	1680	2405	2816	2926	2930	2930
55	0	0	1	29	151	398	629	570	272	41	0	0	0	0	1	30	181	579	1208	1778	2050	2091	2091	2091
60	0	0	0	4	67	258	474	416	152	9	0	0	0	0	0	4	71	329	803	1219	1371	1380	1380	1380
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	18	49	131	233	391	531	659	640	477	290	85	16	18	67	198	431	822	1353	2012	2652	3129	3419	3504	3520

(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

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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