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: WENDOVER, UT **COOP ID: 429382**

Climate Division: UT 1 **NWS Call Sign: ENV** **Elevation: 4,237 Feet** **Lat: 40˚43N** **Lon: 114˚02W**

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	34.8	18.7	26.8	64	1969	7	33.9	1998	-16	1984	18	15.6	1984	1186	0	.0	.0	1.8	12.9	29.0	.9
Feb	42.0	24.0	33.0	68	1944	17	41.2	1986	-12+	1937	1	20.2	1984	896	0	.0	.0	6.1	4.5	23.7	.5
Mar	52.6	32.8	42.7	76	1943	29	49.4	1986	13+	1952	3	37.4	1976	691	0	.0	.0	20.1	.1	13.6	.0
Apr	61.4	39.9	50.7	89	1934	12	57.9	1987	19+	1938	20	43.0	1975	439	9	.0	.0	26.6	.0	3.4	.0
May	71.1	48.7	59.9	95+	1943	27	65.5	1987	26	1999	17	53.7	1977	205	47	.0	.6	30.8	.0	.1	.0
Jun	82.4	57.7	70.1	105+	1940	19	76.0	1986	31	1944	9	63.8	1995	48	200	.4	7.9	30.0	.0	.0	.0
Jul	90.9	65.5	78.2	112	1939	13	82.8	1985	47	1938	6	71.3	1993	1	410	1.7	20.3	31.0	.0	.0	.0
Aug	88.8	63.0	75.9	104	1940	9	79.4	1981	42	1960	23	71.4	1976	2	339	.7	16.4	31.0	.0	.0	.0
Sep	77.2	52.7	65.0	100	1956	2	71.0	1990	31+	1934	26	59.4	1971	85	82	.0	2.5	30.0	.0	.1	.0
Oct	62.0	39.9	51.0	88+	1997	4	57.7	1988	19+	1971	30	46.9	1982	436	1	.0	.0	28.3	.0	3.2	.0
Nov	46.1	27.7	36.9	78	1980	7	42.6	1995	6+	1955	16	30.4	1993	843	0	.0	.0	10.2	1.3	20.7	.0
Dec	35.8	18.8	27.3	65	1946	15	35.1	1977	-18	1990	23	16.4	1990	1170	0	.0	.0	2.1	10.2	29.1	.7
Ann	62.1	40.8	51.5	112	Jul 1939	13	82.8	Jul 1985	-18	Dec 1990	23	15.6	Jan 1984	6002	1088	2.8	47.7	248.0	29.0	122.9	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: 1924-2001

(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	.31	.22	.52	1954	24	1.00	1993	.01	1992
Feb	.26	.19	.64	1945	18	.71+	1998	.00+	1988
Mar	.44	.28	.79	1998	28	1.34	1978	.00	1997
Apr	.48	.39	.91	1940	1	1.98	1971	.00	1992
May	.82	.53	1.95	1987	19	4.19	1987	.01	1992
Jun	.38	.36	.91	1945	4	1.16	1995	.00+	1994
Jul	.29	.23	1.00	1987	21	1.11	1987	.00	2000
Aug	.40	.23	1.27	1941	12	1.51	1983	.00+	1996
Sep	.43	.26	1.55	1982	26	3.37	1982	.00+	1992
Oct	.53	.25	1.15	1987	13	2.41	1972	.00+	1999
Nov	.27	.14	1.19	1970	6	1.06	1987	.00	1999
Dec	.16	.11	.51	1966	6	.67	1983	.00+	1999
Ann	4.77	4.57	1.95	May 1987	19	4.19	May 1987	.00+	Jul 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	4.5	1.2	@	.0
Feb	3.3	.9	@	.0
Mar	4.5	1.3	.1	.0
Apr	4.7	1.6	.1	.0
May	5.5	2.3	.3	@
Jun	3.7	1.4	@	.0
Jul	2.9	1.0	.1	@
Aug	3.1	1.1	.2	.0
Sep	3.4	1.2	.2	@
Oct	3.7	1.6	.2	@
Nov	3.4	.9	.1	.0
Dec	2.7	.5	.0	.0
Ann	45.4	15.0	1.3	.0

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	.01	.03	.07	.11	.15	.21	.28	.37	.49	.71	.93
Feb	.00	.01	.05	.09	.13	.18	.24	.32	.43	.61	.78
Mar	.01	.04	.10	.16	.23	.31	.41	.54	.71	1.01	1.30
Apr	.01	.03	.09	.15	.23	.32	.43	.58	.79	1.15	1.51
May	.03	.08	.17	.28	.40	.55	.74	.99	1.33	1.93	2.53
Jun	.00	.01	.06	.11	.17	.25	.34	.46	.63	.92	1.22
Jul	.01	.04	.08	.12	.17	.22	.28	.36	.46	.64	.82
Aug	.00	.00	.01	.05	.11	.19	.30	.45	.68	1.07	1.49
Sep	.00	.00	.05	.12	.20	.28	.39	.53	.72	1.04	1.36
Oct	.00	.00	.05	.13	.22	.33	.47	.65	.90	1.32	1.74
Nov	.00	.02	.05	.09	.13	.18	.24	.33	.44	.63	.83
Dec	.00	.00	.00	.03	.06	.10	.15	.21	.29	.42	.55
Ann	1.94	2.38	2.99	3.50	3.99	4.47	5.00	5.61	6.38	7.55	8.62

\+ 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: 1924-2001
(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	1.4	.7	#	0
Feb	1.5	1.1	#	0
Mar	.3	.0	#	0
Apr	.2	.0	#	0
May	.1	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.1	.0	#	0
Nov	.6	.0	#	0
Dec	.6	.1	#	0
Ann	4.8	1.9	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	4.0	1988	6	4.0	2000	2	1972	28	1	1971
Feb	4.0	1972	24	5.8	1972	6	1972	25	1	1976
Mar	1.9	1973	11	1.9	1973	#+	1976	3	#+	1976
Apr	1.0	1976	15	1.0	1976	#+	1976	16	#+	1976
May	.6	1975	4	.8	1975	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	0	0	0	0	0
Oct	.4	1971	31	.4+	1975	#+	1975	24	#+	1975
Nov	1.9	1975	28	3.4	1975	1+	1975	29	#+	1975
Dec	1.5	1972	6	2.6	1972	2	1972	7	1	1972
Ann	4.0+	Jan 1988	6	5.8	Feb 1972	6	Feb 1972	25	1+	Feb 1976

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	2.0	.3	.1	.0	.0
Feb	1.6	.5	.1	.0	.0
Mar	.5	.1	.0	.0	.0
Apr	.4	.1	.0	.0	.0
May	.1	.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	.0	.0	.0	.0
Nov	.8	.3	.0	.0	.0
Dec	1.3	.3	.0	.0	.0
Ann	6.8	1.6	.2	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.2	.0	.0	.0
Feb	.2	.0	.0	.0
Mar	.0	.0	.0	.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	.0
Nov	.1	.0	.0	.0
Dec	.7	.0	.0	.0
Ann	1.2	.0	.0	.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	5/20	5/14	5/10	5/06	5/03	4/30	4/26	4/22	4/17
32	5/03	4/27	4/22	4/19	4/15	4/12	4/08	4/04	3/29
28	4/22	4/15	4/09	4/04	3/31	3/26	3/22	3/16	3/09
24	4/02	3/25	3/20	3/16	3/12	3/08	3/03	2/26	2/19
20	3/18	3/10	3/05	2/28	2/24	2/19	2/15	2/09	2/01
16	3/10	3/01	2/23	2/18	2/13	2/08	2/02	1/27	1/18

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

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	186	177	171	166	161	156	151	145	136
32	215	206	200	195	190	185	180	174	166
28	239	229	222	216	211	205	199	192	182
24	267	259	253	248	243	238	233	227	219
20	295	285	279	273	268	262	257	250	241
16	324	313	304	297	290	284	277	268	257

***** 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	1186	896	691	439	205	48	1	2	85	436	843	1170	6002
60	1031	756	536	307	112	16	0	0	29	288	693	1015	4783
57	938	672	445	237	71	7	0	0	12	209	603	922	4116
55	876	616	385	196	50	4	0	0	6	162	543	860	3698
50	723	483	247	112	17	0	0	0	0	72	397	705	2756
32	251	113	8	0	0	0	0	0	0	0	45	206	623

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	88	142	340	560	865	1142	1431	1360	988	588	193	59	7756
55	0	0	4	66	202	456	718	647	303	37	0	0	2433
57	0	0	2	47	162	400	656	585	249	22	0	0	2123
60	0	0	0	26	110	318	563	492	177	8	0	0	1694
65	0	0	0	9	47	200	410	339	82	1	0	0	1088
70	0	0	0	2	15	110	263	197	28	0	0	0	615

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	3	27	144	346	647	934	1219	1148	781	381	60	7	3	30	174	520	1167	2101	3320	4468	5249	5630	5690	5697
45	0	5	57	213	494	784	1064	993	631	244	15	0	0	5	62	275	769	1553	2617	3610	4241	4485	4500	4500
50	0	0	14	115	348	635	909	838	481	131	2	0	0	0	14	129	477	1112	2021	2859	3340	3471	3473	3473
55	0	0	0	50	220	486	754	683	338	54	0	0	0	0	0	50	270	756	1510	2193	2531	2585	2585	2585
60	0	0	0	16	121	343	599	528	213	14	0	0	0	0	0	16	137	480	1079	1607	1820	1834	1834	1834
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	18	78	191	377	605	813	766	490	206	30	3	0	18	96	287	664	1269	2082	2848	3338	3544	3574	3577

(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