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: TRENTON, UT **COOP ID: 428828**

Climate Division: UT 3 **NWS Call Sign:** **Elevation: 4,455 Feet** **Lat: 41˚55N** **Lon: 111˚55W**

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	31.3	10.4	20.9	54	1997	1	30.4	1994	-32+	1984	18	8.4	1979	1369	0	.0	.0	.4	14.5	30.1	6.5
Feb	37.6	14.4	26.0	63	1986	25	34.3	2000	-35	1982	6	13.5	1985	1093	0	.0	.0	2.7	7.7	27.0	3.6
Mar	48.7	23.4	36.1	73+	1986	28	42.7	1992	-8	1993	1	25.3	1985	898	0	.0	.0	14.7	.9	26.5	.8
Apr	58.9	29.6	44.3	85+	1987	26	50.7	1992	15	1997	1	37.7	1975	622	0	.0	.0	24.2	.1	19.1	.0
May	68.5	37.6	53.1	89	1983	28	58.9	1992	22	1984	7	48.9	1975	374	2	.0	.0	29.9	.0	7.2	.0
Jun	79.3	44.0	61.7	100	1988	24	66.5	1988	28	1989	21	57.1	1993	142	42	@	3.1	30.0	.0	2.3	.0
Jul	87.5	49.1	68.3	103	2000	31	73.5	1998	34	1993	13	59.0	1993	41	145	.2	12.8	31.0	.0	.0	.0
Aug	86.7	47.2	67.0	102+	1948	29	71.0	2000	28+	1992	26	62.4	1993	57	116	.2	11.2	31.0	.0	.3	.0
Sep	76.4	38.5	57.5	96+	1948	1	63.7	1990	19	1985	29	52.8	1971	245	18	.0	1.5	29.7	.0	4.2	.0
Oct	63.0	28.9	46.0	87	1992	1	52.7	1988	12	1993	31	41.8	1984	591	0	.0	.0	27.2	.1	20.1	.0
Nov	45.3	20.7	33.0	72	1999	7	40.2	1999	-17	1979	29	26.2	1994	960	0	.0	.0	10.8	2.9	26.7	.7
Dec	33.1	12.0	22.6	62	1995	2	31.5	1977	-24+	1978	30	12.9	1990	1316	0	.0	.0	1.2	13.4	29.9	4.3
Ann	59.7	29.7	44.7	103	Jul 2000	31	73.5	Jul 1998	-35	Feb 1982	6	8.4	Jan 1979	7708	323	.4	28.6	232.8	39.6	193.4	15.9

\+ 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

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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	1.60	1.41	2.33	1997	23	5.25	1997	.29	1984
Feb	1.65	1.47	1.68	1986	17	5.67	1986	.04	1988
Mar	1.89	1.57	1.11+	1982	11	4.99	1982	.55	1987
Apr	1.98	2.09	1.62	1986	2	4.94	1986	.31	1985
May	2.32	1.65	1.22	1980	16	5.37	1980	.26	1972
Jun	1.21	1.16	1.28	1980	3	3.15	1980	.01	1978
Jul	.87	.88	1.69	1997	12	2.69	1997	.00	1988
Aug	.85	.70	2.40	1977	18	3.84	1977	.01	1985
Sep	1.29	1.08	2.38	1982	26	4.04	1982	.00	1987
Oct	1.78	1.94	1.50	1983	2	4.62	1981	.00+	1988
Nov	1.40	1.31	1.11	1982	19	3.62	1983	.00	1976
Dec	1.50	1.26	1.64	1948	31	6.19	1996	.04	1976
Ann	18.34	17.85	2.40	Aug 1977	18	6.19	Dec 1996	.00+	Oct 1988

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.0	4.8	.5	.2
Feb	9.1	4.4	.6	.1
Mar	10.3	5.6	.7	.1
Apr	10.5	5.6	.9	.1
May	12.1	6.2	1.2	.1
Jun	6.5	3.2	.5	.1
Jul	4.9	2.1	.4	@
Aug	5.5	2.2	.4	.1
Sep	6.0	3.2	.7	.1
Oct	7.4	4.1	1.1	.4
Nov	9.4	4.4	.4	@
Dec	9.6	4.5	.5	.1
Ann	102.3	50.3	7.9	1.4

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	.32	.46	.70	.91	1.13	1.36	1.63	1.94	2.36	3.03	3.67
Feb	.21	.34	.57	.81	1.05	1.32	1.63	2.02	2.55	3.41	4.25
Mar	.64	.81	1.08	1.30	1.51	1.73	1.97	2.25	2.61	3.17	3.69
Apr	.55	.74	1.02	1.27	1.51	1.77	2.05	2.39	2.82	3.51	4.15
May	.54	.75	1.09	1.40	1.70	2.02	2.38	2.82	3.38	4.28	5.13
Jun	.07	.14	.29	.46	.64	.86	1.13	1.46	1.94	2.74	3.54
Jul	.01	.06	.17	.29	.42	.59	.79	1.05	1.41	2.04	2.67
Aug	.08	.15	.26	.38	.51	.65	.82	1.04	1.33	1.81	2.29
Sep	.05	.16	.35	.54	.74	.97	1.24	1.58	2.05	2.82	3.58
Oct	.00	.37	.73	1.01	1.28	1.56	1.87	2.22	2.70	3.46	4.17
Nov	.18	.36	.60	.79	.99	1.20	1.44	1.72	2.09	2.68	3.23
Dec	.16	.27	.48	.68	.91	1.16	1.46	1.82	2.33	3.16	3.97
Ann	11.08	12.40	14.13	15.48	16.70	17.90	19.15	20.55	22.28	24.82	27.06

+ 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)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	12.6	9.5	6	3
Feb	9.6	11.0	5	2
Mar	7.0	5.8	2	#
Apr	2.6	.4	#	#
May	.3	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	#	0
Oct	.8	.0	#	0
Nov	7.7	3.5	1	#
Dec	12.9	10.9	3	2
Ann	53.5	41.1	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	14.0	1997	23	39.0	1993	25	1993	14	16+	1993
Feb	9.0	1989	1	25.8	1985	25	1985	28	19	1985
Mar	8.0	1985	3	25.4	1985	28	1985	3	23	1985
Apr	6.0	1993	13	11.0	1993	15	1985	1	2	1985
May	1.5	1983	11	2.1	1979	1	1991	3	#	1991
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	.5	1978	18	.5	1978	#	2000	23	#	2000
Oct	6.0	1984	17	7.2	1984	3+	1984	17	#+	1997
Nov	7.0	1982	30	26.7	1985	12	1983	30	5	1985
Dec	12.0	1988	25	48.0	1983	21	1983	28	14	1983
Ann	14.0	Jan 1997	23	48.0	Dec 1983	28	Mar 1985	3	23	Mar 1985

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	6.9	4.7	1.5	.5	@
Feb	5.5	3.8	1.4	.4	.0
Mar	4.1	2.7	1.0	.2	.0
Apr	1.3	.9	.3	.1	.0
May	.3	.2	.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
Oct	.5	.3	.1	@	.0
Nov	3.8	2.7	1.1	.2	.0
Dec	6.6	4.2	1.3	.6	.1
Ann	29.0	19.5	6.7	2.0	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	21.2	16.5	14.4	7.9
Feb	19.5	14.8	11.3	7.5
Mar	8.1	5.8	4.7	2.6
Apr	.9	.5	.3	.2
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	.4	.1	.0	.0
Nov	6.4	4.3	2.2	.1
Dec	19.0	13.9	8.1	3.0
Ann	75.5	55.9	41.0	21.3

+ 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	7/04	6/25	6/19	6/14	6/09	6/05	5/31	5/24	5/16
32	6/20	6/12	6/06	5/31	5/27	5/22	5/17	5/11	5/02
28	6/08	5/30	5/23	5/18	5/13	5/08	5/02	4/26	4/17
24	5/21	5/11	5/04	4/28	4/23	4/17	4/11	4/04	3/26
20	4/28	4/19	4/12	4/07	4/02	3/27	3/22	3/15	3/06
16	4/08	3/30	3/24	3/19	3/14	3/09	3/04	2/26	2/17

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	8/19	8/26	8/31	9/04	9/08	9/12	9/16	9/21	9/27
32	9/01	9/07	9/11	9/15	9/18	9/22	9/25	9/29	10/05
28	9/13	9/18	9/22	9/25	9/28	10/01	10/04	10/08	10/13
24	9/26	10/02	10/06	10/09	10/13	10/16	10/20	10/24	10/30
20	10/09	10/15	10/20	10/24	10/28	10/31	11/04	11/09	11/15
16	10/26	11/01	11/06	11/09	11/13	11/16	11/20	11/24	11/30

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	125	113	104	97	90	83	75	66	54
32	145	134	127	120	114	108	101	93	82
28	166	156	149	143	137	132	126	119	109
24	202	192	185	178	172	167	160	153	143
20	241	230	222	215	208	202	195	186	175
16	272	262	255	249	243	237	231	224	214

***** 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	1369	1093	898	622	374	142	41	57	245	591	960	1316	7708
60	1214	953	743	473	233	60	10	15	135	436	810	1161	6243
57	1121	869	650	388	161	29	2	5	84	345	720	1068	5442
55	1059	813	590	333	121	17	0	2	58	286	660	1006	4945
50	909	675	447	209	49	2	0	0	17	157	514	851	3830
32	419	255	85	9	0	0	0	0	0	2	111	333	1214

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	74	86	210	377	652	890	1126	1082	763	434	141	40	5875
55	0	0	2	11	60	216	414	371	130	5	0	0	1209
57	0	0	0	6	38	169	354	312	96	2	0	0	977
60	0	0	0	1	17	110	268	230	57	0	0	0	683
65	0	0	0	0	2	42	145	116	18	0	0	0	323
70	0	0	0	0	0	10	62	43	4	0	0	0	119

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	5	58	189	415	651	909	873	562	232	30	3	0	5	63	252	667	1318	2227	3100	3662	3894	3924	3927
45	0	0	14	92	272	501	754	718	415	117	5	0	0	0	14	106	378	879	1633	2351	2766	2883	2888	2888
50	0	0	0	40	154	355	599	563	277	41	0	0	0	0	0	40	194	549	1148	1711	1988	2029	2029	2029
55	0	0	0	11	72	224	445	410	155	10	0	0	0	0	0	11	83	307	752	1162	1317	1327	1327	1327
60	0	0	0	0	18	114	295	260	66	0	0	0	0	0	0	0	18	132	427	687	753	753	753	753
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	5	58	160	298	443	583	563	401	216	38	0	0	5	63	223	521	964	1547	2110	2511	2727	2765	2765

(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