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: SALT LAKE CITY INTL AP, UT **COOP ID: 427598**

Climate Division: UT 3 **NWS Call Sign: SLC** **Elevation: 4,225 Feet** **Lat: 40˚47N** **Lon: 111˚58W**

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	37.0	21.3	29.2	62	1982	26	37.9	1998	-22	1949	25	19.0	1973	1108	0	.0	.0	3.2	9.4	27.1	1.2
Feb	43.4	25.5	34.5	69	1972	28	42.2	1995	-14	1989	6	24.9	1985	857	0	.0	.0	8.0	3.3	21.9	.4
Mar	52.8	33.4	43.1	78+	1956	24	49.2	1992	2	1966	4	36.9	1977	665	0	.0	.0	20.8	.3	13.1	.0
Apr	60.9	39.0	50.0	86	1992	29	57.0	1992	15	1955	5	43.5	1975	448	4	.0	.0	26.2	.0	5.0	.0
May	70.6	46.9	58.8	95	1997	31	65.3	1992	25	1965	6	53.5	1975	215	34	.0	.3	30.4	.0	.2	.0
Jun	82.2	55.8	69.0	104+	1961	21	75.3	1988	35+	1954	2	62.6	1998	50	183	.7	9.3	30.0	.0	.0	.0
Jul	90.6	63.4	77.0	107	1960	26	80.8	2000	40	1968	1	69.3	1993	3	387	3.5	22.1	31.0	.0	.0	.0
Aug	88.7	62.4	75.6	106	1994	4	80.2	1994	37+	1964	29	70.9	1976	3	347	1.3	19.5	31.0	.0	.0	.0
Sep	77.6	52.4	65.0	100	1979	8	71.5	1990	27	1965	18	58.5	1971	89	105	@	4.1	29.9	.0	@	.0
Oct	64.0	41.0	52.5	89	1963	3	59.6	1988	16	1971	30	46.4	1971	379	6	.0	.0	28.9	@	3.1	.0
Nov	48.7	30.4	39.6	75+	1967	12	45.8	1995	-14	1955	16	31.4	2000	747	0	.0	.0	15.4	1.1	18.0	.0
Dec	38.0	22.4	30.2	69	1995	1	37.3	1977	-15	1972	15	20.8	1990	1067	0	.0	.0	3.5	7.6	26.9	.7
Ann	62.9	41.2	52.0	107	Jul 1960	26	80.8	Jul 2000	-22	Jan 1949	25	19.0	Jan 1973	5631	1066	5.5	55.3	258.3	21.7	115.3	2.3

\+ 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	1.37	1.15	1.36	1953	14	3.23	1993	.50	1984
Feb	1.33	1.26	1.23	1998	24	4.89	1998	.13	1988
Mar	1.91	1.79	.93	1998	27	3.97	1983	.80+	2000
Apr	2.02	1.96	1.62	1976	25	4.57	1974	.45	1981
May	2.09	1.85	1.27	1973	25	4.76	1977	.14	1972
Jun	.77	.54	1.48	1998	17	3.84	1998	.00	1994
Jul	.72	.52	2.28	1962	13	2.57	1982	.04	1988
Aug	.76	.59	1.62	1954	4	2.64	1983	.02	1996
Sep	1.33	1.03	2.27	1982	26	7.04	1982	.03	1974
Oct	1.57	1.62	1.53	1993	7	3.91	1981	.00	1978
Nov	1.40	1.22	1.27	2001	22	2.96	1994	.03	1976
Dec	1.23	1.15	1.21	1972	28	4.37	1983	.08	1976
Ann	16.50	16.95	2.28	Jul 1962	13	7.04	Sep 1982	.00+	Jun 1994

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.9	4.3	.4	.0
Feb	9.3	4.4	.3	@
Mar	10.5	5.9	.9	.0
Apr	9.9	5.5	.9	.2
May	9.7	5.3	1.2	.2
Jun	5.2	2.3	.2	.1
Jul	4.8	1.9	.4	@
Aug	5.6	2.2	.3	@
Sep	6.0	2.8	.9	.3
Oct	6.9	4.4	.9	.1
Nov	9.0	4.3	.4	@
Dec	9.1	4.0	.4	@
Ann	96.9	47.3	7.2	.9

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	.41	.54	.73	.90	1.06	1.23	1.42	1.64	1.93	2.37	2.79
Feb	.32	.44	.64	.81	.98	1.17	1.37	1.62	1.94	2.44	2.92
Mar	.67	.85	1.11	1.33	1.54	1.76	1.99	2.27	2.62	3.16	3.66
Apr	.46	.64	.94	1.20	1.47	1.75	2.07	2.45	2.94	3.73	4.48
May	.51	.71	1.01	1.28	1.55	1.83	2.15	2.53	3.02	3.80	4.53
Jun	.01	.06	.15	.25	.38	.52	.70	.93	1.26	1.82	2.38
Jul	.05	.10	.19	.29	.40	.53	.68	.87	1.14	1.59	2.03
Aug	.05	.10	.20	.30	.42	.55	.72	.93	1.22	1.71	2.19
Sep	.03	.08	.21	.37	.57	.82	1.14	1.57	2.18	3.27	4.37
Oct	.06	.18	.40	.63	.88	1.16	1.50	1.92	2.51	3.49	4.45
Nov	.33	.46	.66	.85	1.03	1.22	1.44	1.70	2.04	2.58	3.08
Dec	.16	.25	.43	.60	.78	.98	1.21	1.50	1.89	2.53	3.15
Ann	10.10	11.27	12.80	14.00	15.07	16.13	17.23	18.47	19.98	22.22	24.19

\+ 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

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	14.5	12.4	3	2
Feb	10.0	8.6	2	2
Mar	9.2	6.9	#	1
Apr	5.7	3.5	#	0
May	.7	.0	#	0
Jun	#	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.2	.0	0	0
Oct	2.1	.0	#	0
Nov	7.2	4.8	#	0
Dec	11.4	11.5	1	1
Ann	61.0	47.7	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	13.4	1996	25	50.3	1993	25	1993	12	12	1993
Feb	10.9	1989	1	32.1	1998	17	1998	26	8	1989
Mar	10.1	1977	2	41.9	1977	14	1998	1	3	1998
Apr	11.8	1974	10	25.1	1984	8	1974	11	1+	1984
May	5.0	1983	11	7.5	1975	4	1978	5	#	2000
Jun	#	1995	9	#+	1995	0	0	0	#	1978
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	4.0	1971	30	4.0	1971	0	0	0	0	0
Oct	13.8	1984	18	20.4	1984	9	1984	18	1	1984
Nov	8.3	1994	13	33.3	1994	11	1985	19	3+	1994
Dec	12.6	1972	28	35.2	1972	14	1972	30	5	1972
Ann	13.8	Oct 1984	18	50.3	Jan 1993	25	Jan 1993	12	12	Jan 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	9.5	4.1	1.5	.7	.1
Feb	6.5	3.1	1.0	.4	.1
Mar	4.8	2.8	1.0	.4	@
Apr	2.9	1.5	.7	.3	@
May	.4	.2	.1	@	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.1	.1	@	.0	.0
Oct	1.0	.6	.2	.1	@
Nov	4.3	2.3	1.0	.3	.0
Dec	7.5	3.5	1.4	.3	.1
Ann	37.0	18.2	6.9	2.5	.3

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	17.8	12.2	6.5	1.1
Feb	11.0	6.4	4.3	.9
Mar	3.6	1.6	.8	.1
Apr	1.1	.4	.2	.0
May	.1	.1	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.5	.2	.1	.0
Nov	4.9	2.8	1.3	@
Dec	12.6	6.3	2.5	.3
Ann	51.6	30.0	15.7	2.4

+ 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	5/24	5/18	5/14	5/11	5/08	5/05	5/01	4/27	4/22
32	5/08	5/02	4/27	4/23	4/19	4/16	4/12	4/07	3/31
28	4/21	4/13	4/08	4/03	3/29	3/25	3/20	3/14	3/06
24	4/07	3/30	3/25	3/20	3/15	3/11	3/06	3/01	2/21
20	3/22	3/15	3/10	3/05	3/01	2/25	2/21	2/16	2/09
16	3/14	3/04	2/26	2/20	2/14	2/09	2/03	1/27	1/17

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	9/24	9/29	10/03	10/06	10/09	10/12	10/15	10/18	10/23
32	10/11	10/16	10/20	10/23	10/25	10/28	10/31	11/03	11/08
28	10/19	10/24	10/27	10/30	11/02	11/04	11/07	11/10	11/15
24	11/01	11/06	11/09	11/12	11/14	11/17	11/19	11/23	11/27
20	11/07	11/14	11/18	11/22	11/26	11/29	12/03	12/08	12/14
16	11/15	11/21	11/26	11/29	12/03	12/06	12/10	12/14	12/20

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	177	169	163	158	153	149	144	138	130
32	213	204	198	193	188	183	178	172	163
28	243	234	227	222	217	211	206	199	190
24	270	261	254	248	243	238	232	225	216
20	299	289	281	275	269	263	256	249	238
16	326	314	305	298	291	284	276	268	256

***** 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	1108	857	665	448	215	50	3	3	89	379	747	1067	5631
60	956	715	525	319	130	21	0	0	42	253	613	924	4498
57	863	631	434	245	85	10	0	0	21	181	525	831	3826
55	801	575	375	202	61	5	0	0	13	140	468	769	3409
50	655	445	239	113	22	0	0	0	2	64	332	614	2486
32	217	97	9	0	0	0	0	0	0	0	38	156	517

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	77	148	365	551	844	1129	1419	1377	1013	659	268	83	7933
55	0	0	4	45	181	442	706	664	336	72	2	0	2452
57	0	0	2	31	141	385	644	602	284	49	1	0	2139
60	0	0	0	16	90	304	552	510	211	25	0	0	1708
65	0	0	0	4	34	183	387	347	105	6	0	0	1066
70	0	0	0	0	6	92	251	212	43	1	0	0	605

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	12	49	164	325	604	899	1181	1139	782	425	111	19	12	61	225	550	1154	2053	3234	4373	5155	5580	5691	5710
45	0	13	69	199	450	749	1026	984	632	287	46	4	0	13	82	281	731	1480	2506	3490	4122	4409	4455	4459
50	0	0	25	105	307	599	871	829	483	165	12	0	0	0	25	130	437	1036	1907	2736	3219	3384	3396	3396
55	0	0	4	49	189	450	716	674	344	79	0	0	0	0	4	53	242	692	1408	2082	2426	2505	2505	2505
60	0	0	0	17	96	310	561	519	219	23	0	0	0	0	0	17	113	423	984	1503	1722	1745	1745	1745
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	1	26	96	196	365	573	761	744	498	259	65	9	1	27	123	319	684	1257	2018	2762	3260	3519	3584	3593

(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