

Climatography of the United States

No. 20

1971-2000

Station: SALIDA, CO

COOP ID: 057370

Climate Division: CO 1

NWS Call Sign:

Elevation: 7,160 Feet Lat: 38° 32N

Lon: 106° 01W

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	41.6	11.9	26.8	65+	1997	3	34.0	1986	-26	1988	20	18.1	1979	1185	0	.0	.0	4.9	6.6	30.7	6.7
Feb	45.4	14.9	30.2	67+	1986	25	36.3	2000	-33+	1989	7	24.4	1989	976	0	.0	.0	9.4	3.5	27.9	4.7
Mar	50.9	21.4	36.2	74	1966	31	41.6	1989	-19	1965	3	31.6	1987	895	0	.0	.0	14.3	1.2	29.2	.5
Apr	57.5	27.1	42.3	81	1989	23	48.4	1981	-7	1957	8	35.2	1973	680	0	.0	.0	22.3	.6	23.3	@
May	67.9	35.6	51.8	87	1996	17	57.3	1996	15	1953	2	47.3	1995	411	0	.0	.0	29.7	@	15.2	.0
Jun	78.4	43.1	60.8	95+	1998	30	64.7	1981	24	1954	8	57.0	1995	146	18	.0	.8	30.0	.0	4.3	.0
Jul	83.3	48.5	65.9	96	1989	6	68.8	1980	34	1995	5	63.0	1995	34	62	.0	1.9	31.0	.0	.0	.0
Aug	80.9	47.3	64.1	93+	1996	14	67.2	1995	31+	1968	24	61.3	1974	63	35	.0	.4	31.0	.0	1.3	.0
Sep	74.3	39.5	56.9	91	1995	4	61.4	1998	19+	1999	29	53.5	1985	248	4	.0	.1	29.7	.0	8.5	.0
Oct	63.3	28.2	45.8	81+	1997	6	49.4	1992	2+	1997	26	40.1	1984	597	0	.0	.0	27.0	.3	24.5	.1
Nov	49.0	20.0	34.5	75	1999	14	40.3	1999	-18	1952	27	27.2	1972	915	0	.0	.0	13.4	3.7	28.0	2.2
Dec	41.9	12.8	27.4	65	1999	1	36.1	1980	-22+	1985	13	21.8	1978	1167	0	.0	.0	7.0	5.3	30.6	6.5
Ann	61.2	29.2	45.2	96	Jul 1989	6	68.8	Jul 1980	-33+	Feb 1989	7	18.1	Jan 1979	7317	119	.0	3.2	249.7	21.2	223.5	20.7

+ 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/normal/usnormals.html

Issue Date: February 2004

(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

089-A

Climatology 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: SALIDA, CO

COOP ID: 057370

Climate Division: CO 1

NWS Call Sign:

Elevation: 7,160 Feet Lat: 38°32N

Lon: 106°01W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med- ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.14	.05	.67	1988	18	.83	1988	.00+	2000	4.0	.7	@	.0	.00	.00	.00	.02	.04	.07	.11	.16	.24	.38	.52
Feb	.22	.11	1.12	1955	3	1.95	1987	.00+	2000	3.7	.8	.1	.0	.00	.01	.03	.06	.09	.14	.19	.27	.37	.56	.75
Mar	.61	.53	1.34	1953	30	1.87	1992	.00+	1994	5.8	2.1	.1	.0	.00	.06	.17	.27	.37	.48	.60	.75	.96	1.30	1.63
Apr	.71	.59	1.27	1957	2	2.64	1999	.00	1993	7.0	2.7	.3	.0	.03	.10	.20	.30	.42	.54	.69	.87	1.12	1.53	1.93
May	1.04	1.00	1.70	2001	4	2.53	1995	.03	1998	9.4	3.6	.4	.0	.18	.27	.42	.56	.71	.87	1.05	1.27	1.57	2.05	2.51
Jun	.80	.75	2.48	1949	4	1.84	1987	.02	1985	7.0	2.5	.4	.1	.09	.16	.27	.38	.50	.63	.79	.98	1.24	1.67	2.09
Jul	1.26	1.19	2.47	1949	9	2.51	1984	.28	1987	7.4	3.5	.5	.2	.39	.51	.69	.84	.99	1.14	1.31	1.51	1.77	2.16	2.53
Aug	1.55	1.34	1.71	1992	25	4.26	1984	.15	1985	13.5	6.0	.9	.1	.37	.52	.75	.95	1.15	1.36	1.60	1.88	2.25	2.84	3.39
Sep	.86	.74	1.58	1970	13	2.22	1988	.26	1987	7.7	3.0	.3	.1	.26	.34	.46	.57	.67	.78	.89	1.03	1.21	1.49	1.74
Oct	.85	.58	1.75	1961	29	4.13	1984	.07	1995	5.7	2.6	.5	@	.09	.15	.27	.39	.52	.66	.83	1.04	1.32	1.80	2.26
Nov	.33	.30	.75	1986	2	.95	1986	.00	1984	4.7	1.6	.1	.0	.03	.06	.11	.16	.21	.27	.33	.41	.51	.68	.85
Dec	.28	.23	.73	1967	14	.93	1978	.00+	1994	3.8	.7	.1	@	.00	.00	.07	.12	.17	.22	.28	.35	.45	.61	.76
Ann	8.65	8.14	2.48	Jun 1949	4	4.26	Aug 1984	.00+	Feb 2000	79.7	29.8	3.7	.5	5.69	6.25	6.97	7.52	8.02	8.50	9.01	9.57	10.25	11.25	12.12

+ 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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www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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1971-2000

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Station: SALIDA, CO

COOP ID: 057370

Climate Division: CO 1

NWS Call Sign:

Elevation: 7,160 Feet

Lat: 38°32N

Lon: 106°01W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										Snow Fall ≥ Thresholds					Snow Depth ≥ Thresholds			
Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	4.2	1.0	1	#	18.0	1988	18	22.0	1988	17	1988	19	7	1988	1.8	1.4	.4	.4	.1	4.2	2.2	1.3	.8
Feb	5.6	1.9	1	#	13.0	1987	26	38.0	1987	25	1987	26	5	1987	2.1	1.7	.6	.4	.1	3.5	1.3	.7	.3
Mar	10.2	9.5	1	#	19.0	1985	29	27.7	1985	18	1987	1	3	1987	2.4	2.2	.9	.5	.1	3.3	1.1	.7	.2
Apr	9.6	6.5	#	#	9.0	1997	3	26.0	1994	10+	1999	3	2	1999	2.6	2.3	.8	.5	.0	2.4	.9	.6	.2
May	.3	.0	#	0	3.0	1999	2	3.0	1999	6	1990	1	#+	1999	.2	.1	.1	.0	.0	.2	.1	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.2	.0	#	0	3.0	1985	28	3.0	1985	1	1985	28	#	1985	.1	.1	.1	.0	.0	.1	.0	.0	.0
Oct	6.0	1.5	#	#	15.0	1984	16	42.0	1984	13	1991	30	1	1997	1.1	1.0	.5	.4	.2	1.3	.8	.5	.2
Nov	6.1	6.5	1	#	15.0	1990	3	21.0	1990	24	1991	17	6	1991	2.3	2.0	.9	.4	.1	5.0	1.8	.9	.4
Dec	3.9	4.0	1	#	6.5	1984	15	9.0	1985	11	1988	16	3	1988	2.3	2.0	.3	.1	.0	-9.9	-9.9	-9.9	-9.9
Ann	46.1	30.9	N/A	N/A	19.0	Mar 1985	29	42.0	Oct 1984	25	Feb 1987	26	7	Jan 1988	14.9	12.8	4.6	2.7	.6	-9.9	-9.9	-9.9	-9.9

+ 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

Complete documentation available from:

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Lat: 38° 32N

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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	7/20	7/12	7/06	7/01	6/26	6/22	6/17	6/11	6/03
32	6/25	6/19	6/14	6/11	6/07	6/03	5/31	5/26	5/20
28	6/14	6/08	6/03	5/30	5/26	5/23	5/19	5/14	5/08
24	6/02	5/27	5/22	5/19	5/15	5/11	5/08	5/03	4/27
20	5/25	5/17	5/12	5/07	5/03	4/29	4/24	4/19	4/12
16	5/04	4/27	4/23	4/19	4/15	4/11	4/07	4/02	3/27
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	7/31	8/08	8/13	8/18	8/23	8/27	9/01	9/07	9/15
32	8/10	8/18	8/25	8/30	9/04	9/09	9/14	9/20	9/28
28	9/04	9/09	9/13	9/16	9/20	9/23	9/26	9/30	10/05
24	9/19	9/23	9/26	9/28	9/30	10/03	10/05	10/08	10/12
20	9/23	9/28	10/02	10/06	10/09	10/12	10/15	10/19	10/25
16	10/04	10/10	10/14	10/18	10/21	10/24	10/28	11/01	11/07
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	96	83	73	65	57	49	41	31	18
32	123	111	102	95	88	81	74	65	53
28	141	132	126	121	115	110	105	98	90
24	161	153	147	142	138	133	128	122	115
20	188	177	170	164	158	152	146	138	128
16	209	202	197	192	188	184	180	175	168

* 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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NWS Call Sign:

Elevation: 7,160 Feet Lat: 38°32N Lon: 106°01W

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	1185	976	895	680	411	146	34	63	248	597	915	1167	7317
60	1030	836	740	530	265	55	2	9	123	442	765	1012	5809
57	937	752	647	443	187	24	0	2	68	349	675	919	5003
55	875	696	585	387	143	12	0	0	41	289	615	857	4500
50	720	556	432	254	61	1	0	0	7	157	469	702	3359
32	206	112	38	13	0	0	0	0	0	2	83	188	642

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	44	60	166	323	612	862	1052	995	746	428	157	45	5490
55	0	0	0	7	42	184	339	282	97	3	0	0	954
57	0	0	0	3	24	136	277	222	63	1	0	0	726
60	0	0	0	0	9	76	186	136	28	0	0	0	435
65	0	0	0	0	0	18	62	35	4	0	0	0	119
70	0	0	0	0	0	1	7	2	0	0	0	0	10

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	4	37	122	311	570	736	664	434	169	34	1	0	4	41	163	474	1044	1780	2444	2878	3047	3081	3082
45	0	0	9	44	181	421	581	509	292	73	6	0	0	0	9	53	234	655	1236	1745	2037	2110	2116	2116
50	0	0	0	12	86	277	426	354	161	22	0	0	0	0	0	12	98	375	801	1155	1316	1338	1338	1338
55	0	0	0	0	24	147	271	209	68	1	0	0	0	0	0	0	24	171	442	651	719	720	720	720
60	0	0	0	0	2	56	124	86	17	0	0	0	0	0	0	0	2	58	182	268	285	285	285	285
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	7	31	61	122	262	419	499	459	341	195	57	16	7	38	99	221	483	902	1401	1860	2201	2396	2453	2469

(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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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