

Climatology of the United States

No. 20

1971-2000

Station: URAVAN, CO

COOP ID: 058560

Climate Division: CO 2

NWS Call Sign:

Elevation: 5,010 Feet Lat: 38° 23N

Lon: 108° 45W

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	42.9	15.5	29.2	66	1986	30	35.4	1986	-23	1963	13	19.5	1989	1111	0	.0	.0	6.0	4.0	30.4	2.7
Feb	50.4	21.9	36.2	73	1986	26	42.9	1995	-10+	1989	7	28.4	1974	808	0	.0	.0	14.1	1.0	26.1	.4
Mar	58.9	29.1	44.0	81	1986	29	48.9	1986	9+	1964	1	41.1	1975	652	0	.0	.0	26.0	@	21.7	.0
Apr	66.8	34.3	50.6	90	1992	30	56.8	1992	8	1968	22	44.9	1983	437	3	.0	@	28.3	@	10.5	.0
May	77.7	43.4	60.6	101	1964	16	64.8	1996	28+	1972	1	55.4	1995	170	32	.0	1.8	31.0	.0	1.0	.0
Jun	89.3	51.3	70.3	107+	1990	30	74.7	1981	30	1999	3	65.2	1983	32	190	2.1	17.6	30.0	.0	@	.0
Jul	94.9	57.9	76.4	110	1989	7	79.2	1988	44+	1995	5	72.6	1992	1	354	6.8	26.1	31.0	.0	.0	.0
Aug	92.1	57.5	74.8	105+	1996	14	78.2	1994	41	1964	28	72.4	1972	1	304	2.6	22.4	31.0	.0	.0	.0
Sep	83.4	48.4	65.9	104	1978	5	69.8	1998	30	1978	21	61.2	1986	60	87	.4	7.2	30.0	.0	.3	.0
Oct	71.2	37.0	54.1	98	1963	3	58.8	1988	16	1991	31	48.3	1984	343	5	.0	.1	30.1	.0	7.9	.0
Nov	54.8	26.6	40.7	77	1999	8	44.1	1999	2	1976	29	35.7	1979	730	0	.0	.0	20.4	.1	25.0	.0
Dec	44.4	18.4	31.4	65+	1999	2	39.0	1980	-15	1990	24	23.9	1990	1043	0	.0	.0	6.2	2.2	30.1	1.0
Ann	68.9	36.8	52.9	110	Jul 1989	7	79.2	Jul 1988	-23	Jan 1963	13	19.5	Jan 1989	5388	975	11.9	75.2	284.1	7.3	153.0	4.1

+ 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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1960-2001

(3) Derived from 1971-2000 serially complete daily data

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: URAVAN, CO

COOP ID: 058560

Climate Division: CO 2

NWS Call Sign:

Elevation: 5,010 Feet Lat: 38°23N

Lon: 108°45W

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	.87	.72	1.00+	1987	16	2.45	1974	.00	1972	6.1	3.0	.3	.1	.07	.17	.31	.44	.57	.71	.87	1.07	1.34	1.77	2.18
Feb	.75	.53	.80	1996	3	1.98	1993	.00	1972	5.9	2.8	.2	.0	.05	.12	.23	.34	.46	.59	.74	.92	1.17	1.58	1.97
Mar	1.03	1.00	.87	1970	3	3.25	1995	.02	1999	8.1	3.8	.3	.0	.08	.15	.28	.42	.58	.76	.97	1.25	1.63	2.26	2.89
Apr	.99	.90	1.30	1965	27	2.68	1999	.03	1989	6.7	3.8	.2	@	.09	.16	.29	.43	.58	.75	.95	1.21	1.56	2.15	2.73
May	1.01	.82	.85	1997	25	2.85	1992	.00	1972	6.0	3.4	.4	.0	.04	.12	.26	.41	.57	.75	.97	1.24	1.62	2.25	2.87
Jun	.53	.41	1.18	1994	20	1.65	1973	.00+	1989	3.9	1.3	.2	@	.00	.01	.07	.14	.22	.33	.46	.63	.87	1.30	1.73
Jul	1.23	1.27	1.25+	1981	12	3.54	1977	.09	1994	6.9	3.7	.5	.1	.16	.26	.44	.61	.79	.99	1.22	1.51	1.89	2.52	3.14
Aug	1.34	1.08	1.90	1971	21	3.32	1984	.20+	1985	7.7	4.1	.6	.1	.17	.28	.47	.66	.85	1.07	1.32	1.64	2.06	2.75	3.43
Sep	1.43	.97	1.50	1986	11	4.78	1986	.06	1979	6.7	4.0	.9	.1	.12	.22	.41	.60	.82	1.07	1.37	1.74	2.26	3.12	3.98
Oct	1.59	1.44	1.83	1971	17	5.89	1972	.00	1995	6.1	4.1	.9	.2	.09	.24	.48	.71	.96	1.24	1.56	1.96	2.50	3.40	4.27
Nov	1.06	.88	1.10	1977	6	2.39	1983	.00	1989	6.3	3.2	.5	@	.08	.19	.36	.52	.68	.86	1.06	1.31	1.65	2.20	2.73
Dec	.76	.62	.90	1965	22	2.25	1978	.03	1989	6.3	2.8	.3	.0	.09	.15	.26	.36	.48	.60	.75	.93	1.17	1.58	1.97
Ann	12.59	11.97	1.90	Aug 1971	21	5.89	Oct 1972	.00+	Oct 1995	76.7	40.0	5.3	.6	7.97	8.82	9.94	10.80	11.58	12.33	13.12	14.01	15.09	16.67	18.06

+ 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: 1960-2001

(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Station: URAVAN, CO

COOP ID: 058560

Climate Division: CO 2

NWS Call Sign:

Elevation: 5,010 Feet

Lat: 38°23N

Lon: 108°45W

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	6.4	2.3	#	0	5.8	1979	31	24.9	1979	5	2000	2	1	2000	1.9	1.3	.7	.1	.0	-9.9	-9.9	-9.9	-9.9
Feb	.7	.5	#	0	1.4	1997	23	2.4	1997	1+	2000	1	#+	2000	1.1	.2	.0	.0	.0	.1	.0	.0	.0
Mar	.4	.0	#	0	1.5	1982	5	1.5+	1998	1+	2000	10	#+	2000	.5	.2	.0	.0	.0	.2	.0	.0	.0
Apr	.5	.0	#	0	3.5	1983	13	6.5	1983	1+	1998	2	#+	1998	.2	.2	.1	.0	.0	.1	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.2	.0	#	0	2.0	1979	23	2.0	1979	1	1979	23	#+	1999	.2	.1	.0	.0	.0	.1	.0	.0	.0
Dec	2.2	.5	#	0	6.0	1971	13	8.0	1971	4	1979	26	#+	1999	1.6	.9	.2	.1	.0	.6	.2	.0	.0
Ann	10.4	3.3	N/A	N/A	6.0	Dec 1971	13	24.9	Jan 1979	5	Jan 2000	2	1	Jan 2000	5.5	2.9	1.0	.2	.0	-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

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Climate Division: CO 2

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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	6/01	5/26	5/22	5/18	5/14	5/11	5/07	5/02	4/26
32	5/19	5/13	5/09	5/05	5/01	4/28	4/24	4/19	4/13
28	4/28	4/23	4/19	4/15	4/12	4/09	4/05	4/01	3/27
24	4/16	4/11	4/07	4/04	4/01	3/29	3/26	3/22	3/17
20	4/13	4/03	3/27	3/21	3/15	3/09	3/03	2/24	2/14
16	3/21	3/12	3/05	2/28	2/22	2/17	2/11	2/05	1/26
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	9/19	9/22	9/25	9/28	9/30	10/02	10/05	10/07	10/11
32	9/28	10/02	10/06	10/08	10/11	10/14	10/16	10/20	10/24
28	10/09	10/14	10/17	10/20	10/23	10/26	10/29	11/02	11/07
24	10/23	10/28	10/31	11/02	11/05	11/07	11/10	11/13	11/17
20	10/29	11/04	11/08	11/11	11/14	11/17	11/21	11/25	12/01
16	11/12	11/18	11/21	11/25	11/28	11/30	12/04	12/07	12/13
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	161	153	147	143	138	133	129	123	115
32	185	177	172	167	162	157	152	147	139
28	213	206	201	197	193	190	185	181	174
24	236	229	224	220	217	213	209	204	197
20	271	261	255	249	244	238	232	226	216
16	309	298	291	284	278	271	264	257	246

* 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	1111	808	652	437	170	32	1	1	60	343	730	1043	5388
60	956	668	497	300	76	8	0	0	16	208	580	888	4197
57	863	584	405	226	41	2	0	0	6	141	490	795	3553
55	801	528	345	183	25	0	0	0	2	103	430	733	3150
50	653	392	204	97	5	0	0	0	0	39	286	578	2254
32	208	51	1	0	0	0	0	0	0	0	9	120	389

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	120	167	372	556	885	1149	1376	1327	1017	684	269	100	8022
55	0	0	3	49	197	459	663	614	329	74	1	0	2389
57	0	0	1	32	151	401	601	552	273	50	0	0	2061
60	0	0	0	16	93	316	508	459	193	24	0	0	1609
65	0	0	0	3	32	190	354	304	87	5	0	0	975
70	0	0	0	0	6	96	205	159	26	0	0	0	492

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	37	169	360	662	941	1152	1099	793	447	97	3	0	37	206	566	1228	2169	3321	4420	5213	5660	5757	5760
45	0	5	74	226	507	791	997	944	644	300	32	0	0	5	79	305	812	1603	2600	3544	4188	4488	4520	4520
50	0	0	20	121	357	641	842	789	495	171	5	0	0	0	20	141	498	1139	1981	2770	3265	3436	3441	3441
55	0	0	1	46	218	493	687	634	350	75	0	0	0	0	1	47	265	758	1445	2079	2429	2504	2504	2504
60	0	0	0	12	114	348	532	479	212	20	0	0	0	0	0	12	126	474	1006	1485	1697	1717	1717	1717
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	9	55	161	271	440	577	700	682	517	341	105	11	9	64	225	496	936	1513	2213	2895	3412	3753	3858	3869

(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