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: FRUITA 1 W, CO **COOP ID: 053146**

Climate Division: CO 2 **NWS Call Sign:** **Elevation: 4,480 Feet** **Lat: 39˚10N** **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	37.4	11.6	24.5	62	1965	31	33.3	1981	-34	1963	12	9.1	1973	1257	0	.0	.0	3.1	9.5	30.5	5.2
Feb	46.0	18.3	32.2	70+	1986	27	38.8	2000	-36	1989	6	17.6	1974	919	0	.0	.0	10.9	2.2	26.8	1.5
Mar	56.8	26.9	41.9	79+	1998	25	46.5	1986	-2	1948	12	37.3	1971	718	0	.0	.0	24.8	.0	24.0	.0
Apr	65.0	33.2	49.1	89+	2000	29	54.8	1992	12	1951	11	44.4	1975	479	2	.0	.0	28.1	.0	14.2	.0
May	75.5	42.7	59.1	100	2000	30	63.2	2000	23+	1972	1	53.4	1983	201	18	@	1.1	30.9	.0	2.0	.0
Jun	87.3	49.8	68.6	105	1988	25	73.7	1988	27	1954	7	62.2	1995	42	149	.9	14.1	30.0	.0	.1	.0
Jul	92.8	56.7	74.8	106	1998	20	78.3	2000	38	1968	1	70.3	1995	2	304	2.5	23.5	31.0	.0	.0	.0
Aug	90.6	55.2	72.9	104	2000	2	77.9	2000	37+	1992	28	70.2	1995	3	249	.5	19.1	31.0	.0	.0	.0
Sep	82.1	45.0	63.6	100	1954	1	68.2	1998	24+	1999	3	58.1	1971	105	60	.0	4.8	30.0	.0	1.6	.0
Oct	69.2	33.3	51.3	93	2001	1	55.2	1988	14	1989	31	46.8	1984	428	1	.0	.0	29.6	.0	15.6	.0
Nov	52.6	22.9	37.8	75	1978	3	43.4	1999	-5	1979	30	30.7	1979	818	0	.0	.0	18.1	.4	27.0	.2
Dec	40.9	14.6	27.8	68	1955	24	36.7	1980	-21	1962	26	17.2	1978	1155	0	.0	.0	4.0	5.1	30.7	1.8
Ann	66.4	34.2	50.3	106	Jul 1998	20	78.3	Jul 2000	-36	Feb 1989	6	9.1	Jan 1973	6127	783	3.9	62.6	271.5	17.2	172.5	8.7

\+ 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/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	.65	.51	.60	1956	16	1.66	1993	.02	1972
Feb	.57	.56	.85	1996	21	1.65	1996	.00+	1991
Mar	.96	.98	1.17	2001	13	2.39	1975	.00	1972
Apr	.77	.66	.91	1965	27	1.98	1997	.04	1972
May	1.04	.85	1.45	1993	17	3.33	1993	.00	1974
Jun	.51	.35	1.57	1984	7	2.65	1984	.00+	1980
Jul	.77	.79	1.18	1984	30	2.12	1987	.06	1994
Aug	.73	.69	1.42	1963	31	2.21	1987	.00	1996
Sep	.78	.64	1.00	1991	9	2.76	1997	.06	1987
Oct	1.01	.97	1.08	1957	13	2.64	1972	.01	1978
Nov	.74	.63	1.03	1992	2	1.64	1987	.06	1976
Dec	.65	.59	1.27	1966	6	1.81	1978	.00	1976
Ann	9.18	8.56	1.57	Jun 1984	7	3.33	May 1993	.00+	Aug 1996

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	5.7	2.5	.1	.0
Feb	4.5	2.1	.1	.0
Mar	6.4	3.4	.3	.0
Apr	5.9	2.5	.2	.0
May	6.1	2.9	.5	.1
Jun	3.5	1.4	.2	.1
Jul	4.7	2.3	.4	@
Aug	5.4	2.4	.2	.0
Sep	5.1	2.3	.2	@
Oct	5.7	3.0	.6	.0
Nov	5.3	2.2	.2	@
Dec	4.8	2.1	.2	.0
Ann	63.1	29.1	3.2	.2

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	.07	.11	.20	.29	.39	.50	.63	.79	1.01	1.38	1.74
Feb	.00	.00	.10	.19	.29	.40	.54	.71	.93	1.32	1.71
Mar	.08	.19	.34	.48	.63	.79	.97	1.19	1.49	1.97	2.43
Apr	.09	.15	.26	.37	.48	.61	.75	.93	1.18	1.58	1.98
May	.06	.16	.32	.47	.63	.81	1.02	1.29	1.64	2.23	2.80
Jun	.00	.03	.11	.19	.28	.37	.48	.62	.82	1.14	1.46
Jul	.08	.14	.25	.35	.47	.60	.75	.94	1.21	1.64	2.06
Aug	.04	.11	.22	.33	.44	.57	.71	.89	1.14	1.54	1.93
Sep	.08	.13	.24	.35	.47	.60	.76	.95	1.22	1.66	2.10
Oct	.10	.17	.31	.45	.60	.78	.98	1.23	1.57	2.15	2.71
Nov	.16	.23	.34	.43	.53	.64	.75	.89	1.08	1.37	1.65
Dec	.08	.16	.26	.36	.45	.55	.66	.80	.97	1.26	1.53
Ann	5.61	6.26	7.11	7.77	8.37	8.95	9.56	10.25	11.09	12.32	13.41

\+ 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)

Extremes (2)

Mean Number of Days (1)

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	5.1	2.7	2	#	9.0	1988	6	16.5	1973	14	1973	20	11	1973	2.9	1.8	.5	.1	.0	11.0	7.4	4.7	1.6
Feb	1.4	.5	1	#	5.0	1990	8	10.0	1979	11	1979	2	7	1979	1.4	.8	.2	@	.0	2.4	1.6	1.1	.2
Mar	1.1	.0	#	0	5.0	1975	27	6.5	1975	6	1985	28	1	1998	.5	.4	.2	@	.0	.7	.3	.1	.0
Apr	.4	.0	#	0	4.0	1997	2	4.0+	1997	2	1975	18	#+	1980	.3	.2	@	.0	.0	.3	.0	.0	.0
May	.0	.0	#	0	1.0	1979	8	1.0	1979	1	1979	8	#	1979	@	@	.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	.3	.0	#	0	4.0	1975	24	4.0	1975	4	1975	24	#	1975	.1	.1	.1	.0	.0	.1	.1	.0	.0
Nov	1.2	.1	#	#	5.0	1979	20	8.5	1979	5	1979	20	1	1979	.8	.4	.1	.1	.0	1.2	.5	.1	.0
Dec	3.7	2.3	1	#	10.0	1972	5	17.8	1972	10	1972	5	4	1978	2.0	1.2	.3	.1	@	6.8	4.6	.8	.1
Ann	13.2	5.6	N/A	N/A	10.0	Dec 1972	5	17.8	Dec 1972	14	Jan 1973	20	11	Jan 1973	8.0	4.9	1.4	.3	@	22.5	14.5	6.8	1.9

+ 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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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	6/13	6/07	6/02	5/30	5/26	5/22	5/19	5/14	5/08
32	5/29	5/24	5/20	5/16	5/13	5/10	5/06	5/02	4/26
28	5/18	5/11	5/06	5/02	4/28	4/24	4/20	4/15	4/08
24	4/28	4/23	4/19	4/15	4/12	4/09	4/05	4/01	3/27
20	4/21	4/14	4/09	4/04	3/31	3/27	3/22	3/17	3/10
16	4/05	3/26	3/19	3/13	3/07	3/01	2/23	2/16	2/06

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	9/11	9/15	9/17	9/20	9/22	9/24	9/27	9/29	10/03
32	9/16	9/21	9/25	9/28	10/01	10/04	10/07	10/10	10/15
28	9/23	9/29	10/04	10/08	10/11	10/15	10/19	10/24	10/30
24	10/03	10/09	10/14	10/18	10/22	10/25	10/29	11/03	11/10
20	10/23	10/28	10/31	11/03	11/05	11/08	11/11	11/14	11/18
16	11/05	11/09	11/12	11/15	11/18	11/20	11/23	11/26	12/01

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	138	131	126	122	118	114	110	106	99
32	164	156	150	145	140	135	130	125	117
28	193	183	177	171	166	160	155	148	138
24	216	208	202	197	192	187	182	176	168
20	246	237	230	224	218	213	207	200	191
16	287	276	268	261	255	249	242	234	223

***** 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	1257	919	718	479	201	42	2	3	105	428	818	1155	6127
60	1102	779	563	339	95	10	0	0	39	281	668	1000	4876
57	1009	695	470	262	53	4	0	0	17	202	578	907	4197
55	952	641	409	215	34	1	0	0	9	155	518	845	3779
50	807	511	267	121	8	0	0	0	1	67	371	690	2843
32	350	148	10	0	0	0	0	0	0	0	32	204	744

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	117	153	315	513	840	1097	1325	1269	945	596	204	72	7446
55	5	2	2	38	161	408	612	556	264	39	0	0	2087
57	0	0	1	24	118	350	550	494	213	23	0	0	1773
60	0	0	0	12	67	267	457	401	144	9	0	0	1357
65	0	0	0	2	18	149	304	249	60	1	0	0	783
70	0	0	0	0	2	67	162	116	16	0	0	0	363

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	21	129	311	609	869	1086	1026	707	362	58	0	0	21	150	461	1070	1939	3025	4051	4758	5120	5178	5178
45	0	0	50	189	454	719	931	871	557	225	13	0	0	0	50	239	693	1412	2343	3214	3771	3996	4009	4009
50	0	0	10	93	307	569	776	716	412	111	0	0	0	0	10	103	410	979	1755	2471	2883	2994	2994	2994
55	0	0	1	35	176	420	621	561	270	39	0	0	0	0	1	36	212	632	1253	1814	2084	2123	2123	2123
60	0	0	0	7	79	279	466	406	148	7	0	0	0	0	0	7	86	365	831	1237	1385	1392	1392	1392
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	1	39	136	253	415	548	670	642	479	300	83	5	1	40	176	429	844	1392	2062	2704	3183	3483	3566	3571

(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