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: YELLOW JACKET 2 W, CO **COOP ID: 059275**

Climate Division: CO 2 **NWS Call Sign:** **Elevation: 6,860 Feet** **Lat: 37˚31N** **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	38.1	15.4	26.8	60	1986	29	34.8	1986	-26	1963	12	18.8	1979	1187	0	.0	.0	2.7	7.0	30.6	2.3
Feb	42.9	19.4	31.2	65	1986	25	39.5	1995	-21	1982	7	24.7	1974	948	0	.0	.0	6.0	3.4	27.1	.8
Mar	50.1	25.2	37.7	73	1989	10	45.2	1999	-12	1966	4	30.8	1980	848	0	.0	.0	15.3	.6	25.6	.1
Apr	59.6	31.0	45.3	80+	2000	27	51.9	1992	8	1975	2	37.7	1983	591	0	.0	.0	25.5	.1	16.3	.0
May	69.4	39.3	54.4	90	2000	30	60.5	2000	17	1967	1	50.0	1975	337	7	.0	@	30.4	.0	4.6	.0
Jun	81.6	47.9	64.8	98+	2001	7	69.2	1994	24+	1970	10	60.6	1983	89	81	.0	3.3	30.0	.0	.3	.0
Jul	86.9	54.0	70.5	99	1985	7	73.0	1996	40+	1995	4	67.3	1992	7	175	.0	9.2	31.0	.0	.0	.0
Aug	84.5	52.9	68.7	98	1994	4	72.3	1994	34	1968	23	65.8	1972	21	135	.0	5.1	31.0	.0	.0	.0
Sep	76.3	46.0	61.2	94+	2000	13	66.4	1998	22	1971	18	55.4	1985	156	40	.0	.6	30.0	.0	.5	.0
Oct	63.6	36.3	50.0	86	1979	7	55.1	1988	9+	1991	31	43.3	1984	469	2	.0	.0	28.2	.1	8.2	.0
Nov	48.3	25.1	36.7	75	1973	10	46.0	1999	-10	1975	30	29.1	1972	848	0	.0	.0	14.4	2.1	24.0	.2
Dec	39.9	17.7	28.8	62	1995	1	37.6	1980	-20	1990	23	20.8	1978	1122	0	.0	.0	4.2	6.0	30.2	1.2
Ann	61.8	34.2	48.0	99	Jul 1985	7	73.0	Jul 1996	-26	Jan 1963	12	18.8	Jan 1979	6623	440	.0	18.2	248.7	19.3	167.4	4.6

\+ 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: 1962-2001

(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	1.20	.96	1.17	1993	8	4.32	1993	.00	1972
Feb	1.30	.98	2.21	1993	20	5.03	1993	.00	1972
Mar	1.37	1.23	1.03	1995	6	3.76	1995	.00+	1997
Apr	.92	.68	1.82	1986	2	2.95	1986	.00+	1989
May	1.32	1.14	1.33	1988	31	5.43	1992	.00	1989
Jun	.59	.44	1.14	1986	5	2.47	1986	.00+	1989
Jul	1.53	1.67	1.75	1976	31	3.06	1977	.00	1993
Aug	1.65	1.57	3.03	1963	3	4.53	1971	.00	1985
Sep	1.54	1.41	2.38	1970	5	4.00	1982	.00	1979
Oct	1.95	1.72	2.52	1996	3	8.13	1972	.00+	1999
Nov	1.53	1.19	1.53	1991	15	3.92	1982	.00	1989
Dec	1.04	.84	2.02	1978	18	4.36	1978	.01	1989
Ann	15.94	15.41	3.03	Aug 1963	3	8.13	Oct 1972	.00+	Oct 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.5	3.7	.5	.1
Feb	6.5	3.6	.7	.1
Mar	6.9	4.4	.6	.1
Apr	5.2	2.7	.4	@
May	6.2	3.8	.7	.1
Jun	3.2	1.8	.3	@
Jul	7.2	4.2	.7	.1
Aug	8.3	4.9	.8	.1
Sep	6.0	3.8	1.0	.2
Oct	6.0	4.6	1.3	.3
Nov	5.5	4.0	.9	.2
Dec	5.4	3.1	.5	.1
Ann	72.9	44.6	8.4	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	.06	.16	.34	.51	.70	.92	1.17	1.48	1.90	2.61	3.30
Feb	.07	.19	.39	.58	.79	1.01	1.28	1.61	2.05	2.79	3.50
Mar	.00	.05	.22	.42	.65	.92	1.25	1.67	2.26	3.29	4.31
Apr	.00	.09	.24	.39	.54	.71	.91	1.14	1.47	2.01	2.53
May	.04	.13	.31	.50	.71	.95	1.24	1.62	2.13	3.01	3.87
Jun	.00	.00	.02	.11	.21	.34	.50	.71	1.01	1.52	2.05
Jul	.27	.48	.74	.94	1.15	1.36	1.60	1.88	2.24	2.82	3.35
Aug	.15	.34	.61	.85	1.10	1.36	1.67	2.03	2.52	3.31	4.07
Sep	.15	.33	.59	.81	1.04	1.29	1.57	1.91	2.36	3.08	3.77
Oct	.00	.24	.61	.92	1.24	1.58	1.97	2.44	3.07	4.11	5.10
Nov	.11	.28	.52	.75	.98	1.23	1.53	1.89	2.37	3.15	3.91
Dec	.05	.11	.23	.37	.53	.72	.96	1.26	1.68	2.40	3.12
Ann	10.44	11.47	12.81	13.84	14.77	15.67	16.61	17.65	18.92	20.79	22.41

\+ 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: 1962-2001
(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	19.4	17.0	10	8	18.0	1984	14	59.2	1993	36	1979	31	32	1979	4.9	4.3	2.3	1.1	.2	-9.9	-9.9	-9.9	-9.9
Feb	14.1	14.0	10	9	19.0	1976	5	44.5	1993	34	1993	25	28	1993	4.4	3.8	2.2	.8	.2	-9.9	-9.9	-9.9	-9.9
Mar	11.3	8.0	3	#	10.0	1986	17	59.0	1983	25	1973	14	18	1973	3.3	3.0	1.7	.6	@	2.6	1.1	.4	.1
Apr	2.6	.0	#	0	8.0	1994	10	24.0	1994	12	1973	1	5	1973	.9	.7	.6	.3	.0	.4	.2	.1	.0
May	1.2	.0	#	0	11.0	1978	6	19.0	1978	4	1978	6	#+	1988	.3	.3	.2	.1	@	.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	#	1998	6	#	1998	.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	2	1997	21	#	1997	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	1.7	.0	#	0	8.0	1991	28	11.0	1991	7	1991	30	2	1998	.4	.4	.2	.1	.0	.4	.2	.1	.0
Nov	7.6	5.1	1	#	14.0	1983	25	22.0	1996	20	1975	29	4	1972	2.4	2.2	1.3	.4	.1	1.8	1.2	.3	.0
Dec	10.6	7.3	4	2	12.0	1982	1	33.4	1972	24	1972	29	17	1982	3.6	3.0	1.7	.8	.2	2.7	1.4	1.0	.8
Ann	68.5	51.4	N/A	N/A	19.0	Feb 1976	5	59.2	Jan 1993	36	Jan 1979	31	32	Jan 1979	20.2	17.7	10.2	4.2	.7	-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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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	6/19	6/14	6/10	6/07	6/04	6/02	5/29	5/26	5/21
32	6/09	6/03	5/31	5/27	5/24	5/21	5/18	5/14	5/08
28	5/19	5/15	5/11	5/08	5/06	5/03	4/30	4/27	4/22
24	5/08	5/02	4/27	4/23	4/19	4/15	4/11	4/06	3/30
20	4/26	4/20	4/15	4/12	4/08	4/04	3/31	3/27	3/21
16	4/14	4/08	4/03	3/30	3/26	3/22	3/18	3/13	3/06

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	9/10	9/15	9/19	9/22	9/25	9/28	10/01	10/05	10/10
32	9/22	9/28	10/01	10/05	10/08	10/11	10/14	10/18	10/23
28	9/29	10/05	10/09	10/13	10/17	10/20	10/24	10/28	11/03
24	10/10	10/16	10/20	10/23	10/26	10/30	11/02	11/06	11/11
20	10/23	10/28	10/31	11/03	11/06	11/08	11/11	11/15	11/19
16	10/30	11/04	11/08	11/11	11/14	11/17	11/20	11/24	11/29

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	133	126	120	116	112	107	103	98	90
32	159	151	145	140	136	131	126	121	113
28	188	179	173	168	163	158	153	147	138
24	216	207	201	195	190	185	179	173	164
20	236	227	221	216	211	206	201	195	186
16	256	248	242	237	233	228	223	217	209

***** 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	1187	948	848	591	337	89	7	21	156	469	848	1122	6623
60	1032	808	693	447	206	32	0	3	72	323	698	967	5281
57	939	724	601	364	142	14	0	1	40	245	608	874	4552
55	877	668	541	311	106	8	0	0	25	199	549	812	4096
50	722	528	398	197	44	1	0	0	6	104	407	657	3064
32	226	113	53	10	0	0	0	0	0	1	60	181	644

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	62	89	228	409	693	983	1192	1137	874	557	201	81	6506
55	0	0	4	20	87	300	479	424	209	42	1	0	1566
57	0	0	1	13	60	247	417	363	164	27	0	0	1292
60	0	0	0	6	31	175	324	272	106	12	0	0	926
65	0	0	0	0	7	81	175	135	40	2	0	0	440
70	0	0	0	0	1	26	61	42	10	0	0	0	140

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	12	65	210	465	756	963	910	652	339	67	2	0	12	77	287	752	1508	2471	3381	4033	4372	4439	4441
45	0	0	22	110	317	606	808	755	503	213	20	0	0	0	22	132	449	1055	1863	2618	3121	3334	3354	3354
50	0	0	0	43	187	457	653	600	357	111	0	0	0	0	0	43	230	687	1340	1940	2297	2408	2408	2408
55	0	0	0	8	86	313	498	445	219	40	0	0	0	0	0	8	94	407	905	1350	1569	1609	1609	1609
60	0	0	0	0	21	184	343	290	103	7	0	0	0	0	0	0	21	205	548	838	941	948	948	948
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	16	63	166	311	492	619	585	414	228	56	3	0	16	79	245	556	1048	1667	2252	2666	2894	2950	2953

(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

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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