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: DEL NORTE 2 E, CO **COOP ID: 052184**

Climate Division: CO 5 **NWS Call Sign:** **Elevation: 7,870 Feet** **Lat: 37˚40N** **Lon: 106˚19W**

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	34.0	4.7	19.4	61+	1971	31	28.2	1981	-34	1963	13	9.3	1984	1415	0	.0	.0	1.8	12.4	31.0	8.0
Feb	39.8	10.6	25.2	68	1986	25	35.2	1995	-25	1951	1	17.0	1984	1115	0	.0	.0	5.7	6.0	28.1	3.1
Mar	48.8	19.4	34.1	73	1978	31	40.1	1972	-10	1952	22	28.9	1984	958	0	.0	.0	15.7	.7	29.8	.3
Apr	56.7	25.5	41.1	80+	1981	30	46.1	1981	-4	1973	8	36.0	1983	718	0	.0	.0	24.7	.1	23.4	.1
May	66.0	34.9	50.5	87	1984	22	55.8	1996	15	1950	5	47.3	1995	451	0	.0	.0	30.3	.0	8.7	.0
Jun	74.7	42.3	58.5	91	1994	26	62.2	1981	26+	1999	5	55.6	1975	200	5	.0	.1	30.0	.0	.7	.0
Jul	77.6	48.0	62.8	91	1951	7	66.0	1980	32	1955	12	60.2	1973	88	20	.0	.0	31.0	.0	.0	.0
Aug	75.7	47.0	61.4	89	1981	6	64.7	1983	32	1964	21	58.1	1976	130	16	.0	.0	31.0	.0	.0	.0
Sep	70.0	38.8	54.4	87+	1984	5	58.3	1983	15	1999	28	51.8	1993	319	0	.0	.0	30.0	.0	2.3	.0
Oct	61.1	29.2	45.2	81	1980	1	49.0	1987	5	1993	30	40.3	1984	615	0	.0	.0	27.9	.1	18.6	.0
Nov	45.8	16.5	31.2	70	1980	7	37.5	1999	-19	1952	27	22.2	1972	1016	0	.0	.0	12.5	3.1	29.0	1.0
Dec	35.8	6.7	21.3	62	1958	8	32.0	1980	-23+	1978	9	12.2	1978	1356	0	.0	.0	2.5	9.9	31.0	5.5
Ann	57.2	27.0	42.1	91+	Jun 1994	26	66.0	Jul 1980	-34	Jan 1963	13	9.3	Jan 1984	8381	41	.0	.1	243.1	32.3	202.6	18.0

\+ 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

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

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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	.31	.22	.70	1987	16	.95	1987	.00+	1998
Feb	.34	.28	.58	1986	7	1.00	1987	.01	1972
Mar	.83	.68	2.55	1985	29	3.13	1985	.08	1977
Apr	.71	.62	1.36	1952	20	2.07	1990	.00+	1974
May	.89	.83	1.03	1978	2	2.71	1980	.00+	1998
Jun	.77	.70	1.33	1969	26	2.09	1996	.00+	1998
Jul	1.59	1.46	1.51	1999	24	3.86+	1999	.15	1994
Aug	1.94	1.78	1.45	1992	24	4.91	1982	.57	1978
Sep	1.13	.97	1.06	1985	20	2.86	1997	.35	1988
Oct	.83	.82	1.31	1959	1	3.15	1972	.02	1995
Nov	.65	.65	.80	1993	14	1.61	1986	.00+	1999
Dec	.47	.23	1.08	1978	6	1.71	1978	.00	1996
Ann	10.46	10.25	2.55	Mar 1985	29	4.91	Aug 1982	.00+	Nov 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	3.0	1.1	@	.0
Feb	3.3	1.1	.1	.0
Mar	4.8	2.5	.3	.1
Apr	4.8	2.1	.3	.0
May	6.3	2.5	.4	.1
Jun	5.6	2.5	.2	.1
Jul	9.9	4.8	.7	.1
Aug	12.7	5.7	.6	.1
Sep	8.0	4.0	.5	@
Oct	4.8	2.7	.3	.0
Nov	3.9	2.0	.3	.0
Dec	3.4	1.6	.1	@
Ann	70.5	32.6	3.8	.5

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	.00	.00	.05	.11	.16	.22	.29	.38	.51	.72	.93
Feb	.02	.05	.09	.14	.19	.25	.32	.41	.53	.75	.95
Mar	.10	.17	.28	.40	.52	.66	.82	1.02	1.28	1.72	2.14
Apr	.00	.04	.13	.24	.36	.49	.66	.87	1.16	1.65	2.15
May	.00	.06	.19	.33	.48	.64	.84	1.09	1.44	2.02	2.60
Jun	.00	.18	.34	.46	.57	.69	.81	.96	1.15	1.45	1.74
Jul	.30	.44	.68	.89	1.11	1.34	1.61	1.93	2.36	3.04	3.70
Aug	.68	.87	1.13	1.35	1.57	1.78	2.02	2.30	2.66	3.20	3.71
Sep	.29	.40	.56	.71	.85	1.00	1.17	1.37	1.63	2.04	2.42
Oct	.06	.12	.22	.34	.46	.61	.78	1.00	1.31	1.82	2.33
Nov	.00	.08	.20	.30	.41	.52	.65	.81	1.02	1.37	1.70
Dec	.01	.03	.09	.15	.22	.31	.42	.56	.76	1.10	1.44
Ann	7.22	7.84	8.63	9.23	9.77	10.29	10.83	11.43	12.15	13.21	14.13

\+ 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	5.7	4.3	2	1	8.5	1987	16	18.1	1975	11	1993	25	9	1988	3.0	1.9	.6	.2	.0	7.8	5.9	4.0	.0
Feb	5.4	4.0	2	1	10.0	1986	7	15.0	1997	13	1989	6	7	1993	2.8	1.8	.7	.3	@	4.7	3.1	1.9	.0
Mar	9.6	9.5	1	#	15.1	1985	29	27.4	2000	15	1985	29	4	1992	4.0	2.5	1.1	.5	@	2.9	1.2	.5	.1
Apr	4.1	2.3	#	#	11.0	1990	30	14.0	1995	10	2000	1	2	1980	2.1	1.3	.6	.2	@	1.3	.4	.2	.0
May	1.6	.0	#	0	7.0	1990	1	11.8	1978	10	1990	1	1	1990	.6	.5	.2	.2	.0	.2	.1	.1	.1
Jun	#	.0	0	0	#	1979	9	#	1979	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	#	.0	#	0	#	1995	3	#	1995	#+	1998	29	#+	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	#	1971	19	#	1971	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	3.0	1.0	#	0	14.4	1972	31	15.1	1972	9	1996	27	1	1996	1.0	.8	.4	.2	@	.9	.4	.2	.0
Nov	6.5	5.4	1	#	12.0	1997	14	20.0	1997	12	1997	14	4	1991	3.0	2.1	1.0	.4	@	7.2	3.9	2.0	.1
Dec	7.4	4.0	2	#	14.5	1978	6	23.2	1978	11	1987	27	8	1991	3.4	2.2	1.1	.4	@	11.0	8.5	5.5	.2
Ann	43.3	30.5	N/A	N/A	15.1	Mar 1985	29	27.4	Mar 2000	15	Mar 1985	29	9	Jan 1988	19.9	13.1	5.7	2.4	@	36.0	23.5	14.4	.5

+ 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	6/30	6/24	6/20	6/16	6/12	6/09	6/05	6/01	5/26
32	6/12	6/07	6/04	6/01	5/29	5/26	5/23	5/19	5/14
28	5/30	5/25	5/21	5/18	5/15	5/12	5/09	5/05	4/30
24	5/16	5/10	5/06	5/02	4/29	4/25	4/22	4/17	4/11
20	5/04	4/28	4/24	4/20	4/17	4/14	4/10	4/06	4/01
16	4/21	4/16	4/13	4/11	4/08	4/05	4/03	3/31	3/26

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	9/05	9/08	9/11	9/13	9/15	9/17	9/19	9/21	9/24
32	9/12	9/16	9/19	9/21	9/23	9/25	9/28	9/30	10/04
28	9/19	9/24	9/27	9/30	10/03	10/06	10/09	10/12	10/17
24	10/02	10/06	10/09	10/12	10/14	10/17	10/19	10/22	10/27
20	10/05	10/10	10/13	10/16	10/19	10/22	10/25	10/29	11/03
16	10/15	10/21	10/25	10/28	10/31	11/03	11/07	11/10	11/16

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	114	107	102	98	93	89	85	80	73
32	133	128	124	120	117	113	110	106	100
28	161	154	149	144	140	136	131	126	119
24	189	181	176	172	168	164	159	154	147
20	207	199	194	189	185	180	175	170	162
16	229	221	215	210	205	201	196	190	182

***** 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	1415	1115	958	718	451	200	88	130	319	615	1016	1356	8381
60	1260	975	803	568	300	84	15	40	177	460	866	1201	6749
57	1167	891	710	478	216	40	3	13	107	368	776	1108	5877
55	1105	835	648	419	166	22	0	5	70	309	716	1046	5341
50	950	695	493	279	71	2	0	0	15	177	567	891	4140
32	433	254	82	11	0	0	0	0	0	4	141	371	1296

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	41	62	147	283	572	796	955	909	672	411	114	39	5001
55	0	0	0	1	25	127	242	201	52	4	0	0	652
57	0	0	0	0	12	86	183	147	29	1	0	0	458
60	0	0	0	0	3	40	102	81	9	0	0	0	235
65	0	0	0	0	0	5	20	16	0	0	0	0	41
70	0	0	0	0	0	0	0	1	0	0	0	0	1

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	1	41	152	366	585	732	683	473	225	27	0	0	1	42	194	560	1145	1877	2560	3033	3258	3285	3285
45	0	0	8	61	221	436	577	528	326	108	2	0	0	0	8	69	290	726	1303	1831	2157	2265	2267	2267
50	0	0	0	15	99	288	422	373	185	33	0	0	0	0	0	15	114	402	824	1197	1382	1415	1415	1415
55	0	0	0	0	26	150	267	220	73	1	0	0	0	0	0	0	26	176	443	663	736	737	737	737
60	0	0	0	0	1	48	121	82	11	0	0	0	0	0	0	0	1	49	170	252	263	263	263	263
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	15	63	154	279	393	458	425	321	198	47	0	0	15	78	232	511	904	1362	1787	2108	2306	2353	2353

(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