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: LA JUNTA 4 NNE, CO **COOP ID: 054720**

Climate Division: CO 1 **NWS Call Sign: LHX** **Elevation: 4,203 Feet** **Lat: 38˚03N** **Lon: 103˚32W**

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	43.9	15.3	29.6	78+	1986	30	40.9	1986	-23	1948	28	15.0	1979	1097	0	.0	.0	12.3	7.5	30.4	2.9
Feb	50.9	20.6	35.8	81	1981	20	43.8	1976	-20	1982	5	24.9	1989	819	0	.0	.0	16.1	3.7	26.2	1.5
Mar	59.5	28.2	43.9	90	1971	26	49.6	1986	-17	1960	3	38.2	1980	657	0	.0	@	23.9	.9	21.0	.1
Apr	67.9	36.4	52.2	95+	2000	18	58.8	1981	10+	1957	8	46.1	1973	394	9	.0	.7	27.6	.1	7.6	.0
May	77.1	47.1	62.1	103	2000	29	67.4	1996	22+	1967	1	57.1	1983	162	71	.2	4.1	30.6	.0	.4	.0
Jun	88.7	56.7	72.7	110	1990	28	77.6	1994	39	1951	2	67.7	1982	16	248	4.0	16.5	30.0	.0	.0	.0
Jul	93.8	62.4	78.1	108+	1981	21	80.5	1980	48	1952	8	74.8	1992	0	406	8.5	24.4	31.0	.0	.0	.0
Aug	91.5	60.6	76.1	107+	1995	11	81.1	1995	43	1993	31	72.4	1992	3	345	4.2	21.3	31.0	.0	.0	.0
Sep	83.1	51.3	67.2	104+	1995	5	72.7	1998	22	1985	30	63.4	1971	52	119	.8	9.9	29.7	.0	.5	.0
Oct	71.2	38.1	54.7	95	1975	12	57.4+	1974	9	1993	30	50.2	1976	323	1	.0	.9	29.6	.2	6.0	.0
Nov	55.0	24.6	39.8	85	1980	8	46.8	1999	-11	1976	28	29.4	1972	756	0	.0	.0	19.4	2.0	24.1	.3
Dec	45.3	16.6	31.0	81	1980	17	39.9	1980	-21	1989	22	18.4	1983	1056	0	.0	.0	12.1	5.9	30.1	2.5
Ann	69.0	38.2	53.6	110	Jun 1990	28	81.1	Aug 1995	-23	Jan 1948	28	15.0	Jan 1979	5335	1199	17.7	77.8	293.3	20.3	146.3	7.3

\+ 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: 1945-2001

(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	.32	.26	.73	1962	8	.88	1985	.03	1977
Feb	.33	.25	.80	1993	10	1.39	1993	.02	1994
Mar	.88	.61	1.34	1973	13	3.45	1973	.07	1977
Apr	1.25	1.06	2.21	1983	22	4.66	1999	.23	1987
May	1.78	1.69	1.83	1958	22	4.75	1995	.48	1991
Jun	1.36	1.43	2.80	1948	19	3.33	1979	.20+	1981
Jul	2.04	1.80	2.84	1966	22	5.14	1990	.14	1983
Aug	1.58	1.51	2.47	1978	29	4.25	1977	.09	1988
Sep	.80	.77	2.10	1966	27	2.03	1973	.05	1983
Oct	.63	.51	1.95+	1965	17	1.70	1984	.00+	1995
Nov	.48	.36	1.93	1946	3	1.78	1991	.01	1982
Dec	.27	.22	.45	1984	13	.75	1973	.00	1980
Ann	11.72	11.78	2.84	Jul 1966	22	5.14	Jul 1990	.00+	Oct 1995

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	4.0	1.1	@	.0
Feb	3.7	1.0	.1	.0
Mar	5.7	2.4	.4	.1
Apr	6.6	3.2	.5	.2
May	9.5	4.2	1.0	.3
Jun	6.3	3.0	.8	.1
Jul	8.3	4.3	1.2	.4
Aug	7.5	3.6	1.0	.3
Sep	5.3	2.2	.3	@
Oct	4.2	1.7	.3	.1
Nov	4.4	1.4	.2	@
Dec	4.0	1.0	@	.0
Ann	69.5	29.1	5.8	1.5

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	.04	.07	.11	.16	.20	.25	.31	.38	.48	.64	.79
Feb	.03	.05	.09	.14	.19	.25	.32	.41	.53	.73	.93
Mar	.09	.16	.28	.40	.53	.68	.85	1.07	1.37	1.86	2.34
Apr	.20	.31	.49	.66	.84	1.03	1.25	1.52	1.88	2.47	3.04
May	.47	.64	.90	1.12	1.35	1.58	1.84	2.15	2.55	3.19	3.78
Jun	.24	.36	.56	.75	.94	1.14	1.37	1.66	2.03	2.64	3.21
Jul	.39	.57	.87	1.15	1.43	1.73	2.07	2.48	3.03	3.91	4.74
Aug	.35	.50	.73	.94	1.15	1.37	1.62	1.92	2.32	2.95	3.54
Sep	.10	.16	.27	.39	.51	.64	.79	.98	1.24	1.66	2.08
Oct	.00	.03	.12	.21	.32	.44	.59	.77	1.03	1.48	1.91
Nov	.02	.04	.09	.15	.22	.31	.42	.57	.78	1.15	1.52
Dec	.01	.03	.06	.10	.15	.20	.26	.33	.44	.61	.79
Ann	7.43	8.22	9.26	10.06	10.78	11.49	12.22	13.04	14.04	15.52	16.81

\+ 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: 1945-2001
(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	4.5	4.2	1	1	8.6	1990	19	11.1	1990	11	1990	20	3	1988	3.9	1.7	.3	.1	.0	10.0	2.9	1.1	@
Feb	4.0	3.8	#	1	6.8	1993	10	12.8	1993	10	1974	6	2	1993	3.1	1.4	.4	.1	.0	5.7	1.6	.5	@
Mar	6.9	4.6	#	0	18.8	1973	30	22.9	1980	6	1973	31	#	2000	3.5	2.0	.7	.3	.1	2.0	.5	@	.0
Apr	3.5	1.4	#	0	16.6	1988	1	16.9	1988	16	1988	2	1+	1988	1.6	1.1	.3	.1	@	1.2	.3	.2	@
May	.6	.0	#	0	7.4	1990	2	13.6	1990	8	1990	3	#	2000	.2	.1	.1	.1	.0	.1	.1	@	.0
Jun	.0	.0	#	0	.0	0	0	.0	0	0	0	0	#	1990	.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	0	2.5	1984	28	2.5	1984	#+	1995	21	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Oct	1.2	.0	#	0	5.5	1976	26	9.1	1991	6	1991	31	#	1993	.5	.4	.2	.1	.0	.3	.1	@	.0
Nov	4.4	4.0	#	0	8.0	1972	27	15.3	1972	13	1991	3	2+	1991	2.9	1.5	.5	.2	.0	3.8	1.6	.8	.1
Dec	4.3	3.7	1	1	6.0	1984	13	12.8	1973	8	1979	29	2+	1983	3.3	1.7	.3	.1	.0	7.6	2.4	.7	.0
Ann	29.6	21.7	N/A	N/A	18.8	Mar 1973	30	22.9	Mar 1980	16	Apr 1988	2	3	Jan 1988	19.1	10.0	2.8	1.1	.1	30.7	9.5	3.3	.1

+ 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	5/17	5/13	5/10	5/07	5/05	5/03	4/30	4/27	4/23
32	5/09	5/04	5/01	4/28	4/25	4/22	4/19	4/16	4/11
28	4/24	4/20	4/17	4/15	4/13	4/10	4/08	4/05	4/01
24	4/18	4/13	4/10	4/07	4/05	4/02	3/30	3/27	3/23
20	4/09	4/03	3/29	3/25	3/21	3/18	3/14	3/09	3/03
16	3/31	3/24	3/18	3/14	3/10	3/05	3/01	2/23	2/16

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	9/20	9/24	9/27	9/30	10/02	10/05	10/07	10/10	10/14
32	9/26	10/01	10/04	10/07	10/10	10/13	10/16	10/20	10/25
28	10/08	10/13	10/16	10/19	10/22	10/25	10/28	11/01	11/06
24	10/18	10/22	10/26	10/29	10/31	11/03	11/06	11/09	11/14
20	10/26	10/30	11/02	11/05	11/07	11/10	11/12	11/16	11/20
16	11/03	11/08	11/12	11/15	11/18	11/20	11/23	11/27	12/02

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	166	160	156	153	149	146	143	139	133
32	188	181	176	172	168	163	159	154	147
28	209	203	199	195	192	189	185	181	175
24	228	221	217	213	209	205	201	196	190
20	254	246	240	235	230	226	221	215	206
16	281	271	264	258	252	247	241	233	224

***** 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	1097	819	657	394	162	16	0	3	52	323	756	1056	5335
60	942	679	502	263	83	3	0	0	12	180	606	901	4171
57	849	595	411	197	50	1	0	0	3	112	523	808	3549
55	789	546	354	158	34	0	0	0	1	78	467	746	3173
50	645	415	220	80	10	0	0	0	0	27	336	601	2334
32	219	89	7	0	0	0	0	0	0	0	54	179	548

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	144	194	373	605	932	1222	1429	1365	1056	701	288	146	8455
55	2	6	7	73	253	532	716	652	367	66	11	1	2686
57	0	0	2	52	207	473	654	590	310	39	7	0	2334
60	0	0	0	29	147	385	561	497	228	14	0	0	1861
65	0	0	0	9	71	248	406	345	119	1	0	0	1199
70	0	0	0	2	26	134	252	205	50	0	0	0	669

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	26	78	212	411	715	1016	1214	1147	840	485	134	36	26	104	316	727	1442	2458	3672	4819	5659	6144	6278	6314
45	4	32	116	279	564	866	1059	992	692	342	67	12	4	36	152	431	995	1861	2920	3912	4604	4946	5013	5025
50	0	6	49	167	414	716	904	837	544	213	28	1	0	6	55	222	636	1352	2256	3093	3637	3850	3878	3879
55	0	0	16	90	271	566	749	682	404	112	4	0	0	0	16	106	377	943	1692	2374	2778	2890	2894	2894
60	0	0	2	36	153	419	594	527	270	44	0	0	0	0	2	38	191	610	1204	1731	2001	2045	2045	2045
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	55	100	199	289	448	629	761	728	524	338	138	59	55	155	354	643	1091	1720	2481	3209	3733	4071	4209	4268

(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