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: LEADORE NO 2, ID **COOP ID: 105177**

Climate Division: ID 8 **NWS Call Sign:** **Elevation: 6,000 Feet** **Lat: 44˚41N** **Lon: 113˚22W**

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	29.8	2.1	16.0	53	1977	17	24.6	1981	-38	1979	1	3.6	1979	1521	0	.0	.0	.2	16.9	30.9	10.8
Feb	35.4	7.1	21.3	56	1977	20	27.3+	1995	-38	1989	4	11.6	1989	1225	0	.0	.0	1.0	10.0	28.2	5.4
Mar	43.4	16.6	30.0	69	1966	30	36.4	1992	-19	1976	4	21.1	1976	1086	0	.0	.0	7.5	2.4	30.0	1.3
Apr	53.8	24.6	39.2	76+	2001	26	45.7	1987	-5	1982	6	32.1	1975	774	0	.0	.0	18.8	.2	26.9	.1
May	63.3	31.9	47.6	85+	1983	31	52.3	1992	4	1968	6	44.2	1975	540	0	.0	.0	28.1	.0	17.7	.0
Jun	73.3	38.1	55.7	97	1988	25	61.2	1988	19	1966	4	50.1	1998	286	6	.0	.6	29.8	.0	3.9	.0
Jul	82.7	41.4	62.1	102+	1982	27	65.5	1985	24	1988	7	53.8	1993	130	38	.1	4.8	31.0	.0	1.2	.0
Aug	81.2	40.0	60.6	99	1969	5	64.0	1971	25+	1976	27	56.6	1993	160	23	.0	2.5	31.0	.0	1.8	.0
Sep	71.2	32.5	51.9	91	1967	1	57.9	1990	10+	1999	29	46.7	1985	396	2	.0	.2	29.3	.0	10.7	.0
Oct	57.7	23.9	40.8	80	1965	8	47.4	1988	-10	1971	29	35.3	1984	751	0	.0	.0	23.9	.4	24.3	.1
Nov	39.0	13.7	26.4	69	1965	1	34.9	1999	-18	1967	27	16.9	1985	1160	0	.0	.0	6.1	6.8	28.7	2.3
Dec	29.2	2.9	16.1	56+	1980	31	27.6	1980	-40	1983	23	6.5	1990	1517	0	.0	.0	.3	17.5	30.9	8.4
Ann	55.0	22.9	39.0	102+	Jul 1982	27	65.5	Jul 1985	-40	Dec 1983	23	3.6	Jan 1979	9546	69	.1	8.1	207.0	54.2	235.2	28.4

\+ 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: 1965-2001

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

Issue Date: February 2004

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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	.57	1997	2	1.17	1998	.00	1974
Feb	.21	.18	.50	1988	16	.64	1986	.00+	1977
Mar	.45	.41	.78	1999	22	1.09	1981	.00+	1998
Apr	.70	.67	.73	1975	27	2.94	1976	.00	1984
May	1.38	1.20	.71	1977	16	4.72	1980	.34	1973
Jun	1.12	1.14	1.00	1999	1	2.38	1999	.20	1974
Jul	1.03	.87	1.42	1977	21	3.41	1977	.00	1999
Aug	.82	.84	.73	1970	5	1.67	1993	.00	1975
Sep	.71	.66	1.76	1968	21	2.01	1982	.00+	1979
Oct	.49	.42	.47	1983	14	1.25	1997	.00	1978
Nov	.38	.34	1.00	1970	30	.83	1983	.00+	1996
Dec	.40	.26	.77	1971	26	2.13	1975	.00+	2000
Ann	8.01	7.77	1.76	Sep 1968	21	4.72	May 1980	.00+	Dec 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	4.1	1.1	@	.0
Feb	3.4	.8	@	.0
Mar	5.7	1.8	.1	.0
Apr	4.6	1.7	.2	.0
May	10.4	4.5	.4	.0
Jun	9.3	3.3	.3	@
Jul	5.1	2.9	.4	.2
Aug	6.1	2.3	.2	.0
Sep	4.6	2.7	.3	@
Oct	4.8	2.1	.1	.0
Nov	5.1	1.1	.0	.0
Dec	4.4	1.7	.2	.0
Ann	67.6	26.0	2.2	.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	.05	.09	.15	.19	.24	.28	.34	.40	.48	.61	.73
Feb	.00	.00	.04	.08	.11	.15	.20	.26	.34	.47	.60
Mar	.00	.10	.20	.26	.33	.40	.47	.56	.67	.85	1.01
Apr	.08	.16	.28	.38	.49	.60	.72	.87	1.07	1.38	1.69
May	.33	.46	.66	.84	1.02	1.20	1.42	1.67	2.00	2.52	3.01
Jun	.30	.41	.57	.71	.85	1.00	1.16	1.36	1.61	2.00	2.37
Jul	.02	.08	.20	.34	.51	.70	.94	1.25	1.69	2.43	3.17
Aug	.15	.26	.40	.51	.62	.73	.86	1.01	1.20	1.50	1.78
Sep	.00	.05	.17	.28	.39	.53	.69	.88	1.15	1.60	2.05
Oct	.02	.05	.12	.19	.27	.36	.46	.59	.78	1.08	1.38
Nov	.00	.11	.19	.25	.30	.35	.41	.47	.56	.69	.81
Dec	.00	.00	.07	.15	.22	.30	.40	.51	.67	.91	1.16
Ann	4.99	5.54	6.27	6.84	7.34	7.84	8.36	8.94	9.65	10.70	11.62

\+ 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: 1965-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	1.4	-99.9	4	3
Feb	.9	.0	1	#
Mar	2.9	1.6	1	#
Apr	.8	#	#	0
May	.7	.0	#	0
Jun	#	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.2	.0	0	0
Oct	.5	.0	#	0
Nov	1.2	-99.9	#	#
Dec	2.0	-99.9	3	3
Ann	10.6	-9.9	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	4.0	1976	9	7.0	1976	22	1998	13	12	1998
Feb	3.5	1998	23	3.5	1976	8	1998	25	7	1998
Mar	8.0	1976	1	9.5	1976	6	1998	10	3	1998
Apr	3.0	1971	25	5.0	1971	10	1999	9	1	1999
May	7.0	1978	16	7.0	1978	2	1999	14	#+	1999
Jun	#	1979	7	#+	1979	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	2.0	1971	29	2.0	1971	0	0	0	0	0
Oct	3.0	1997	9	4.0	1971	5	1997	24	#+	1997
Nov	4.0	1971	24	6.2	1988	5	1971	28	1	1971
Dec	10.0	1971	26	10.0	1971	7	2000	19	6	2000
Ann	10.0	Dec 1971	26	10.0	Dec 1971	22	Jan 1998	13	12	Jan 1998

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.8	.7	.4	.0	.0
Feb	.6	.5	.1	.0	.0
Mar	.7	.6	.1	.1	.0
Apr	.3	.3	.1	.0	.0
May	.2	.2	.1	.1	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.1	.1	.0	.0	.0
Oct	.2	.2	.1	.0	.0
Nov	.8	.7	.2	.0	.0
Dec	1.1	.9	.2	.2	.0
Ann	4.8	4.2	1.3	.4	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-9.9	-9.9
Apr	-9.9	-9.9	-9.9	-9.9
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.3	.0	.0	.0
Nov	-9.9	-9.9	-9.9	-9.9
Dec	-9.9	-9.9	-9.9	-9.9
Ann	-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	8/01	7/25	7/20	7/15	7/11	7/07	7/03	6/27	6/20
32	7/22	7/14	7/08	7/02	6/27	6/22	6/17	6/11	6/02
28	7/05	6/26	6/20	6/14	6/09	6/04	5/30	5/24	5/15
24	6/18	6/09	6/03	5/29	5/25	5/20	5/15	5/09	4/30
20	5/16	5/11	5/08	5/05	5/02	4/29	4/26	4/22	4/17
16	5/09	5/03	4/28	4/24	4/20	4/17	4/13	4/08	4/01

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	7/31	8/05	8/09	8/12	8/14	8/17	8/20	8/24	8/28
32	8/10	8/17	8/22	8/26	8/30	9/03	9/07	9/12	9/19
28	8/23	8/29	9/02	9/05	9/09	9/12	9/15	9/19	9/25
24	9/08	9/13	9/16	9/19	9/22	9/25	9/28	10/02	10/07
20	9/15	9/21	9/26	9/30	10/03	10/07	10/11	10/15	10/22
16	9/28	10/04	10/08	10/12	10/15	10/19	10/22	10/26	11/01

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	64	53	46	39	34	28	21	14	4
32	103	89	79	71	63	55	46	36	23
28	126	114	105	98	91	83	76	67	55
24	153	142	133	126	120	114	107	98	87
20	181	172	165	159	154	148	142	135	126
16	208	197	190	183	177	171	165	157	147

***** 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	1521	1225	1086	774	540	286	130	160	396	751	1160	1517	9546
60	1366	1085	931	624	385	161	49	66	257	596	1010	1362	7892
57	1273	1001	838	534	296	102	21	31	185	503	920	1269	6973
55	1211	945	776	475	240	71	11	17	143	442	860	1207	6398
50	1056	805	621	335	121	20	1	2	63	294	710	1052	5080
32	508	320	157	31	0	0	0	0	0	15	235	517	1783

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	10	19	94	247	484	711	932	886	596	287	65	23	4354
55	0	0	0	1	10	91	230	191	50	1	0	0	574
57	0	0	0	0	4	63	177	143	31	0	0	0	418
60	0	0	0	0	1	31	113	84	14	0	0	0	243
65	0	0	0	0	0	6	38	23	2	0	0	0	69
70	0	0	0	0	0	0	8	3	0	0	0	0	11

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	0	10	78	250	516	721	684	401	144	11	0	0	0	10	88	338	854	1575	2259	2660	2804	2815	2815
45	0	0	0	28	132	367	566	529	262	63	0	0	0	0	0	28	160	527	1093	1622	1884	1947	1947	1947
50	0	0	0	7	57	229	411	374	145	16	0	0	0	0	0	7	64	293	704	1078	1223	1239	1239	1239
55	0	0	0	0	14	120	260	228	60	1	0	0	0	0	0	0	14	134	394	622	682	683	683	683
60	0	0	0	0	0	43	127	99	12	0	0	0	0	0	0	0	0	43	170	269	281	281	281	281
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	1	21	95	215	360	496	486	326	152	17	0	0	1	22	117	332	692	1188	1674	2000	2152	2169	2169

(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