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: SILER CITY 2 N, NC **COOP ID: 317924**

Climate Division: NC 4 **NWS Call Sign:** **Elevation: 610 Feet** **Lat: 35˚46N** **Lon: 79˚28W**

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	49.2	28.8	39.0	79+	1952	2	49.7	1974	-11	1985	21	29.7	1977	805	0	.0	.0	15.0	2.1	22.0	.1
Feb	53.6	31.1	42.4	82	1977	27	49.5	1976	-3	1979	11	35.0	1978	635	0	.0	.0	17.3	.9	18.4	.1
Mar	62.0	38.9	50.5	88	1985	30	55.3	1976	0	1980	3	44.8	1996	454	2	.0	.0	26.6	.2	10.6	@
Apr	71.0	46.0	58.5	92+	1985	21	63.0	1985	19	1972	9	53.5	1983	210	15	.0	.3	29.3	.0	3.7	.0
May	77.8	54.9	66.4	96+	1996	20	71.0	1991	28+	1976	9	62.2	1992	60	101	.0	1.0	31.0	.0	.3	.0
Jun	84.7	63.4	74.1	104	1954	27	80.5	1981	36	1972	12	70.1	1972	5	276	.0	6.5	30.0	.0	.0	.0
Jul	88.5	67.4	78.0	107	1952	29	81.8	1986	45	1963	11	74.1	1974	0	400	.3	13.5	31.0	.0	.0	.0
Aug	86.8	65.6	76.2	105	1988	19	80.9	1988	42+	1968	31	72.5	1976	1	348	.2	10.3	31.0	.0	.0	.0
Sep	81.2	59.3	70.3	102	1954	6	75.8	1980	34+	1983	23	66.2	1974	24	181	.0	3.4	30.0	.0	.0	.0
Oct	71.4	46.5	59.0	96+	1954	6	66.1	1984	17	1962	27	53.4	1987	222	33	.0	.2	30.7	.0	3.0	.0
Nov	62.2	38.5	50.4	87	1950	1	58.5	1985	8	1970	25	44.1	1976	444	3	.0	.0	26.4	.0	11.4	.0
Dec	52.7	31.6	42.2	79	1998	7	49.9	1971	-8	1958	12	33.0	1989	709	0	.0	.0	18.7	.7	19.8	.0
Ann	70.1	47.7	58.9	107	Jul 1952	29	81.8	Jul 1986	-11	Jan 1985	21	29.7	Jan 1977	3569	1359	.5	35.2	317.0	3.9	89.2	.2

\+ 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	4.61	4.44	3.08	1984	11	9.95	1978	1.00	1981
Feb	3.72	3.56	2.85	1998	17	6.84	1984	1.10	1991
Mar	4.55	4.02	4.65	1998	19	8.65	1984	1.40	1985
Apr	3.35	3.67	2.83	1982	27	6.13	1997	.47	1976
May	4.64	4.68	3.15	1999	15	9.76	1990	1.37	1987
Jun	3.97	3.43	3.12	1972	21	10.73	1982	.54	1990
Jul	4.67	3.64	4.45	1959	10	12.73	1975	1.15	1987
Aug	4.05	3.54	5.82	1985	18	9.66	1985	1.48	1990
Sep	4.26	3.50	6.00	1996	6	13.49	1999	.03	1985
Oct	3.82	3.42	7.36	1954	15	11.20	1990	.02	2000
Nov	3.33	2.71	2.91	1985	21	11.97	1985	.66	1973
Dec	3.24	3.26	2.98	1958	28	8.03	1972	.65	1988
Ann	48.21	46.77	7.36	Oct 1954	15	13.49	Sep 1999	.02	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.1	7.6	3.2	1.3
Feb	9.5	6.3	2.7	1.1
Mar	10.9	7.4	3.0	1.2
Apr	8.8	6.0	2.3	1.0
May	9.8	6.9	3.3	1.4
Jun	9.5	6.2	2.6	1.1
Jul	10.7	7.3	2.8	1.5
Aug	9.1	6.2	2.7	1.1
Sep	7.9	5.3	2.5	1.3
Oct	7.5	5.1	2.6	1.1
Nov	8.5	5.5	2.4	1.0
Dec	9.9	6.5	2.1	.7
Ann	113.2	76.3	32.2	13.8

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	1.64	2.07	2.70	3.23	3.74	4.25	4.82	5.47	6.31	7.61	8.80
Feb	1.24	1.59	2.11	2.55	2.97	3.40	3.88	4.43	5.15	6.25	7.27
Mar	1.60	2.02	2.65	3.17	3.67	4.19	4.75	5.40	6.24	7.53	8.72
Apr	.92	1.23	1.72	2.14	2.55	2.98	3.46	4.03	4.77	5.93	7.01
May	1.67	2.11	2.74	3.27	3.77	4.29	4.85	5.50	6.33	7.62	8.80
Jun	.75	1.11	1.69	2.23	2.77	3.36	4.03	4.83	5.90	7.62	9.25
Jul	1.28	1.72	2.39	2.98	3.56	4.16	4.83	5.63	6.66	8.27	9.78
Aug	1.37	1.75	2.31	2.79	3.24	3.71	4.22	4.82	5.59	6.79	7.88
Sep	.32	.59	1.14	1.72	2.38	3.13	4.03	5.18	6.76	9.43	12.07
Oct	.46	.76	1.30	1.83	2.40	3.03	3.76	4.67	5.90	7.92	9.89
Nov	.92	1.23	1.71	2.13	2.54	2.97	3.45	4.01	4.75	5.90	6.97
Dec	.99	1.30	1.76	2.15	2.53	2.93	3.37	3.89	4.55	5.59	6.55
Ann	36.20	38.57	41.58	43.85	45.85	47.78	49.76	51.94	54.57	58.36	61.61

\+ 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
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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	2.4	.5	#	0
Feb	3.1	1.0	#	0
Mar	.9	.0	#	0
Apr	#	.0	0	0
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	.0	.0	0	0
Nov	#	.0	0	0
Dec	.5	.0	#	0
Ann	6.9	1.5	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	9.0	1988	8	15.0	1987	22	2000	25	2	1973
Feb	11.6	1979	7	23.6	1979	11	1979	19	1	1979
Mar	5.0	1972	26	5.0+	1980	5	1980	3	#+	1983
Apr	#	1983	18	#	1983	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	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	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	#	1971	24	#	1971	0	0	0	0	0
Dec	3.0	1971	4	3.0+	1993	3+	1973	18	#+	1973
Ann	11.6	Feb 1979	7	23.6	Feb 1979	22	Jan 2000	25	2	Jan 1973

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.6	.6	.2	.2	.0
Feb	.9	.8	.3	.2	.1
Mar	.3	.3	.2	.1	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.2	.2	.2	.0	.0
Ann	2.0	1.9	.9	.5	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.2	.0	.0	.0
Feb	.5	.2	.1	.1
Mar	.2	.1	@	.0
Apr	.0	.0	.0	.0
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	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.1	.1	.0	.0
Ann	1.0	.4	.1	.1

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	5/15	5/08	5/02	4/28	4/24	4/19	4/15	4/09	4/02
32	5/05	4/27	4/21	4/17	4/12	4/08	4/03	3/28	3/21
28	4/21	4/14	4/09	4/05	4/01	3/28	3/23	3/18	3/11
24	4/14	4/04	3/28	3/22	3/16	3/10	3/04	2/25	2/15
20	3/23	3/14	3/08	3/02	2/25	2/20	2/15	2/09	1/31
16	3/13	3/03	2/23	2/17	2/11	2/05	1/29	1/21	1/09

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	9/30	10/06	10/09	10/12	10/15	10/18	10/21	10/25	10/30
32	10/09	10/14	10/19	10/22	10/25	10/29	11/01	11/05	11/11
28	10/13	10/21	10/27	10/31	11/05	11/10	11/15	11/20	11/28
24	10/29	11/06	11/12	11/16	11/21	11/25	11/30	12/06	12/13
20	11/04	11/15	11/23	11/30	12/07	12/13	12/20	12/28	1/08
16	11/21	12/03	12/12	12/20	12/27	1/04	1/12	1/22	2/06

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	204	194	186	180	174	168	162	154	144
32	228	217	209	202	196	189	182	174	163
28	255	242	233	225	218	210	202	193	180
24	290	276	266	257	249	241	232	222	208
20	331	315	303	293	283	274	264	252	235
16	>365	356	333	321	311	302	292	282	268

***** 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	805	635	454	210	60	5	0	1	24	222	444	709	3569
60	652	495	310	104	15	0	0	0	5	121	306	560	2568
57	567	412	233	60	5	0	0	0	1	77	232	473	2060
55	508	361	188	38	2	0	0	0	0	54	189	416	1756
50	371	236	98	9	0	0	0	0	0	18	102	288	1122
32	60	12	0	0	0	0	0	0	0	0	1	32	105

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	277	302	572	795	1064	1261	1423	1370	1147	834	550	346	9941
55	13	6	47	143	353	571	710	657	457	176	48	18	3199
57	9	1	30	105	293	511	648	595	398	137	31	12	2770
60	2	0	14	59	211	421	555	502	312	87	16	7	2186
65	0	0	2	15	101	276	400	348	181	33	3	0	1359
70	0	0	0	2	34	150	249	205	82	8	0	0	730

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	97	146	325	536	800	1007	1166	1114	895	572	314	144	97	243	568	1104	1904	2911	4077	5191	6086	6658	6972	7116
45	47	77	209	393	645	857	1011	959	745	421	200	75	47	124	333	726	1371	2228	3239	4198	4943	5364	5564	5639
50	19	38	121	266	490	707	856	804	595	278	110	38	19	57	178	444	934	1641	2497	3301	3896	4174	4284	4322
55	3	13	57	156	345	557	701	649	445	163	51	15	3	16	73	229	574	1131	1832	2481	2926	3089	3140	3155
60	0	3	25	79	208	412	546	494	304	75	14	0	0	3	28	107	315	727	1273	1767	2071	2146	2160	2160
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	71	109	211	347	515	684	797	762	591	368	208	102	71	180	391	738	1253	1937	2734	3496	4087	4455	4663	4765

(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