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: NEWBERRY, SC **COOP ID: 386209**

Climate Division: SC 5 **NWS Call Sign:** **Elevation: 476 Feet** **Lat: 34˚17N** **Lon: 81˚38W**

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	53.9	30.4	42.2	81+	1975	31	54.8	1974	-1	1985	21	32.6	1977	709	0	.0	.0	22.1	.3	16.2	@
Feb	58.8	31.7	45.3	82+	1996	28	52.4	1990	7+	1958	18	37.9	1978	553	0	.0	.0	22.9	.3	13.1	.0
Mar	66.7	38.4	52.6	89+	1985	30	57.9	1974	-1	1980	3	45.8	1996	393	7	.0	.0	29.9	@	6.9	@
Apr	74.9	46.2	60.6	94+	1986	28	65.6	1981	18	2000	5	56.5	1983	164	32	.0	.7	29.9	.0	1.4	.0
May	82.3	56.2	69.3	99	1962	17	72.9	1998	32	1963	2	63.8	1997	35	166	.0	5.0	31.0	.0	.0	.0
Jun	88.6	64.2	76.4	103+	1954	27	80.6	1981	45+	1984	1	71.7	1972	1	344	.7	15.5	30.0	.0	.0	.0
Jul	92.0	68.5	80.3	107	1993	3	84.7	1993	55+	1988	7	76.2	1975	0	472	3.2	23.0	31.0	.0	.0	.0
Aug	90.0	67.1	78.6	108	1983	21	82.1	1999	51+	1989	19	76.2	1976	0	420	1.4	18.4	31.0	.0	.0	.0
Sep	84.3	60.7	72.5	101+	1954	6	76.4	1980	36	1967	30	70.3	1976	6	232	.1	8.3	30.0	.0	.0	.0
Oct	74.8	48.2	61.5	100	1954	5	68.0	1984	21+	1952	30	56.5+	1987	160	51	.0	.3	31.0	.0	.8	.0
Nov	65.6	39.1	52.4	89	1961	1	60.7	1985	14	1955	30	45.7	1976	386	6	.0	.0	29.2	.0	7.5	.0
Dec	56.8	32.2	44.5	80+	1998	7	52.1	1971	1	1983	26	34.8	2000	636	0	.0	.0	23.8	.1	14.8	.0
Ann	74.1	48.6	61.4	108	Aug 1983	21	84.7	Jul 1993	-1+	Jan 1985	21	32.6	Jan 1977	3043	1730	5.4	71.2	341.8	.7	60.7	.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

(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

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	5.08	5.15	8.00	2000	25	14.22	2000	.61	1981
Feb	4.16	4.15	3.25	1979	18	7.87	1979	.95	1977
Mar	4.86	4.63	3.11	1964	15	12.77	1980	.81	1985
Apr	3.14	2.89	3.66	1956	11	7.63	1979	.35	1976
May	3.44	3.03	4.17	1957	11	6.80	1984	1.10	1987
Jun	4.44	3.83	3.83	1994	4	10.86	1994	1.18	1977
Jul	4.05	3.26	5.21	1959	9	8.33	1991	.55	1992
Aug	4.88	4.48	10.42	1986	18	17.04	1986	.41	1997
Sep	4.57	4.51	6.24	1998	4	9.75	1980	.51	1985
Oct	3.68	3.28	6.01	1985	2	10.48	1985	.04	2000
Nov	3.43	2.90	3.56	1985	1	11.38	1985	.56	1973
Dec	3.60	3.21	2.81	1994	22	9.24	1981	.39	1988
Ann	49.33	50.75	10.42	Aug 1986	18	17.04	Aug 1986	.04	Oct 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.6	7.9	3.7	1.5
Feb	8.9	6.6	2.6	1.3
Mar	10.2	7.0	3.4	1.5
Apr	8.2	5.7	2.1	.8
May	8.9	6.0	2.5	.8
Jun	9.4	6.3	2.7	1.3
Jul	10.5	6.5	2.6	1.1
Aug	9.6	6.1	2.9	1.4
Sep	7.9	5.3	2.8	1.7
Oct	6.5	4.2	2.4	1.2
Nov	8.4	5.5	2.6	1.0
Dec	9.9	6.4	2.4	.9
Ann	110.0	73.5	32.7	14.5

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	1.77	2.25	2.95	3.54	4.10	4.67	5.30	6.04	6.97	8.42	9.76
Feb	1.31	1.71	2.29	2.79	3.28	3.78	4.33	4.97	5.80	7.10	8.29
Mar	1.47	1.93	2.62	3.22	3.79	4.39	5.05	5.83	6.83	8.40	9.85
Apr	.56	.84	1.30	1.72	2.16	2.63	3.17	3.83	4.69	6.09	7.43
May	1.05	1.38	1.87	2.28	2.69	3.11	3.57	4.12	4.82	5.91	6.93
Jun	1.17	1.59	2.23	2.80	3.35	3.94	4.59	5.35	6.35	7.93	9.40
Jul	.94	1.31	1.91	2.44	2.97	3.53	4.16	4.92	5.90	7.47	8.95
Aug	1.08	1.53	2.24	2.89	3.54	4.23	5.00	5.93	7.14	9.09	10.92
Sep	1.08	1.51	2.18	2.77	3.37	4.00	4.70	5.54	6.64	8.38	10.02
Oct	.33	.58	1.07	1.58	2.14	2.78	3.53	4.48	5.78	7.96	10.10
Nov	.96	1.29	1.78	2.21	2.63	3.07	3.56	4.13	4.88	6.05	7.14
Dec	.91	1.25	1.77	2.24	2.69	3.18	3.72	4.36	5.19	6.51	7.75
Ann	38.49	40.66	43.41	45.46	47.27	49.00	50.77	52.71	55.05	58.40	61.26

\+ 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)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.5	.0	#	0
Feb	.8	.0	#	0
Mar	.6	.0	#	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	.2	.0	#	0
Ann	2.1	.0	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	8.0	2000	25	8.0	2000	8	2000	25	1	2000
Feb	5.5	1973	10	5.5	1973	6	1973	10	#+	1999
Mar	5.0	1971	25	5.0	1971	5	1971	25	#+	1983
Apr	.0	0	0	.0	0	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	.0	0	0	.0	0	0	0	0	0	0
Dec	2.0	1971	3	2.0+	1993	2	1971	3	#+	2000
Ann	8.0	Jan 2000	25	8.0	Jan 2000	8	Jan 2000	25	1	Jan 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.2	.2	.1	.0	.0
Feb	.4	.2	.1	.1	.0
Mar	.1	.1	.1	.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	.1	.1	.0	.0	.0
Ann	.8	.6	.3	.2	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.3	.1	@	.0
Feb	.3	.1	.1	.0
Mar	.1	.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	.0	.0	.0
Ann	.8	.3	.1	.0

+ 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	5/04	4/28	4/24	4/20	4/17	4/14	4/10	4/06	3/31
32	4/20	4/15	4/11	4/07	4/04	4/01	3/29	3/25	3/20
28	4/08	4/02	3/28	3/24	3/21	3/17	3/13	3/09	3/03
24	3/22	3/15	3/11	3/07	3/03	2/28	2/24	2/19	2/13
20	3/15	3/06	2/28	2/22	2/17	2/12	2/07	2/01	1/23
16	2/24	2/15	2/08	2/01	1/26	1/20	1/12	1/01	0/00

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	10/08	10/13	10/16	10/19	10/21	10/24	10/27	10/30	11/03
32	10/15	10/21	10/25	10/29	11/02	11/05	11/09	11/13	11/19
28	10/30	11/04	11/08	11/11	11/15	11/18	11/21	11/25	11/30
24	11/14	11/21	11/26	12/01	12/05	12/09	12/13	12/18	12/25
20	11/24	12/05	12/12	12/19	12/25	12/31	1/07	1/15	1/26
16	12/08	12/20	12/28	1/04	1/11	1/19	1/28	2/11	0/00

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	206	200	195	191	187	183	179	174	167
32	231	224	219	215	211	206	202	197	190
28	263	254	248	243	238	233	228	222	213
24	300	292	286	280	276	271	265	259	251
20	353	333	322	314	306	299	291	282	269
16	>365	>365	>365	>365	339	330	323	317	309

***** 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	709	553	393	164	35	1	0	0	6	160	386	636	3043
60	564	414	257	75	8	0	0	0	1	77	254	488	2138
57	477	337	188	41	2	0	0	0	0	45	186	402	1678
55	422	286	149	25	1	0	0	0	0	29	147	347	1406
50	297	174	72	5	0	0	0	0	0	8	72	226	854
32	37	5	0	0	0	0	0	0	0	0	0	15	57

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	351	376	637	857	1154	1332	1495	1443	1216	914	610	402	10787
55	23	13	73	192	442	642	782	730	526	230	67	20	3740
57	16	8	50	148	381	582	720	668	466	184	46	13	3282
60	10	1	26	93	294	492	627	575	376	123	23	7	2647
65	0	0	7	32	166	344	472	420	232	51	6	0	1730
70	0	0	0	6	75	205	318	266	108	14	0	0	992

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	186	260	468	668	935	1121	1272	1225	1011	712	424	233	186	446	914	1582	2517	3638	4910	6135	7146	7858	8282	8515
45	106	154	326	520	780	971	1117	1070	861	558	288	130	106	260	586	1106	1886	2857	3974	5044	5905	6463	6751	6881
50	48	80	203	373	625	821	962	915	711	405	176	67	48	128	331	704	1329	2150	3112	4027	4738	5143	5319	5386
55	20	33	106	244	470	671	807	760	561	262	91	31	20	53	159	403	873	1544	2351	3111	3672	3934	4025	4056
60	1	8	48	132	320	521	652	605	412	146	40	7	1	9	57	189	509	1030	1682	2287	2699	2845	2885	2892
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	123	176	315	440	625	757	854	830	682	465	278	154	123	299	614	1054	1679	2436	3290	4120	4802	5267	5545	5699

(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