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: ANDERSON, SC **COOP ID: 380165**

Climate Division: SC 2 **NWS Call Sign:** **Elevation: 800 Feet** **Lat: 34˚32N** **Lon: 82˚40W**

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	52.5	27.7	40.1	81	1949	11	50.2	1974	-5	1985	21	29.4	1977	773	0	.0	.0	21.5	.4	18.1	@
Feb	57.6	30.6	44.1	80+	1996	28	50.6	1990	4	1958	17	35.8	1978	586	0	.0	.0	22.9	.2	14.1	.0
Mar	65.2	37.2	51.2	88	1995	23	56.3	1974	5	1980	3	45.1	1971	430	2	.0	.0	29.7	@	7.9	.0
Apr	73.4	45.4	59.4	94	1986	27	65.2	1981	24	1987	2	54.4	1983	192	23	.0	.3	30.0	.0	1.5	.0
May	80.4	54.9	67.7	100	1989	31	71.4	1982	33	1994	6	63.6	1997	51	134	@	2.1	30.9	.0	.0	.0
Jun	87.3	62.5	74.9	106	1978	28	79.7	1981	42+	1985	15	69.8	1972	3	299	.2	12.8	30.0	.0	.0	.0
Jul	90.5	66.6	78.6	108	1952	29	83.2	1993	53	1982	2	75.0	1979	0	421	2.0	20.4	31.0	.0	.0	.0
Aug	88.9	65.9	77.4	106	1954	17	82.4	1999	52+	1992	29	74.1	1992	0	385	1.0	16.5	31.0	.0	.0	.0
Sep	83.3	59.5	71.4	102+	1954	6	75.7	1998	34	1967	30	68.1	1975	9	201	@	5.9	30.0	.0	.0	.0
Oct	73.6	46.7	60.2	98	1954	5	67.5	1984	25	1962	27	54.5	1976	190	40	.0	.3	31.0	.0	.9	.0
Nov	64.1	37.9	51.0	88	1961	2	58.6	1985	11+	1950	26	44.7	1976	423	3	.0	.0	28.9	.0	7.6	.0
Dec	54.8	29.9	42.4	80+	1998	7	49.2	1998	2	1962	13	33.7	2000	703	0	.0	.0	23.8	.1	16.5	.0
Ann	72.6	47.1	59.9	108	Jul 1952	29	83.2	Jul 1993	-5	Jan 1985	21	29.4	Jan 1977	3360	1508	3.2	58.3	340.7	.7	66.6	@

+ 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

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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	5.23	4.97	4.70	1969	20	12.26	1982	.30	1986
Feb	4.27	4.70	3.00	1982	3	7.50	1975	.98	1978
Mar	5.41	4.90	4.05	1964	26	12.14	1980	1.14	1985
Apr	3.55	3.41	4.60	1998	17	11.15	1998	.31	1986
May	4.02	3.55	4.05	1996	25	8.82	1972	.10	2000
Jun	3.42	3.24	5.15	1965	12	9.00	1994	.03	1993
Jul	4.30	3.90	6.16	1964	19	9.65	1985	.82	1980
Aug	3.82	3.39	5.00	1991	12	9.92	1991	.31	1981
Sep	4.20	3.84	6.40	1956	26	11.82	1977	.00	1985
Oct	3.85	3.63	4.90	1990	22	11.58	1990	.00	2000
Nov	4.36	4.36	4.13	1957	18	8.37	1992	1.64	1991
Dec	4.57	4.10	4.34	1972	15	11.00	1983	.94	1980
Ann	51.00	51.97	6.40	Sep 1956	26	12.26	Jan 1982	.00+	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.3	7.9	3.9	1.8
Feb	8.1	6.4	3.3	1.4
Mar	9.2	7.6	3.8	1.6
Apr	7.3	6.1	2.7	.9
May	7.9	6.4	2.5	1.2
Jun	7.6	6.3	2.8	.9
Jul	8.9	7.0	3.2	1.2
Aug	8.0	6.6	2.7	1.1
Sep	7.1	5.6	2.8	1.6
Oct	5.8	4.8	2.5	1.3
Nov	8.6	6.8	3.3	1.4
Dec	9.5	7.3	3.1	1.2
Ann	98.3	78.8	36.6	15.6

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	1.17	1.66	2.42	3.11	3.80	4.54	5.36	6.35	7.64	9.70	11.65
Feb	1.40	1.80	2.40	2.91	3.39	3.90	4.45	5.09	5.92	7.20	8.39
Mar	1.56	2.08	2.85	3.52	4.18	4.86	5.62	6.51	7.66	9.46	11.14
Apr	.62	.94	1.46	1.94	2.44	2.97	3.58	4.33	5.31	6.91	8.43
May	.77	1.14	1.73	2.27	2.82	3.41	4.09	4.90	5.98	7.71	9.35
Jun	.52	.81	1.30	1.78	2.27	2.80	3.42	4.17	5.19	6.83	8.41
Jul	1.31	1.72	2.33	2.85	3.36	3.89	4.47	5.15	6.04	7.41	8.69
Aug	.64	.97	1.53	2.05	2.59	3.18	3.85	4.67	5.76	7.52	9.21
Sep	.40	.88	1.57	2.18	2.81	3.49	4.25	5.19	6.43	8.43	10.35
Oct	.34	.77	1.40	1.96	2.54	3.17	3.88	4.75	5.91	7.80	9.60
Nov	1.72	2.12	2.69	3.17	3.61	4.07	4.56	5.13	5.86	6.97	7.98
Dec	1.37	1.80	2.45	3.01	3.56	4.12	4.74	5.48	6.42	7.90	9.28
Ann	37.13	39.84	43.29	45.91	48.22	50.45	52.75	55.29	58.36	62.81	66.64

\+ 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

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(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	.6	.0	#	0
Feb	.6	.0	#	0
Mar	.1	.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	.1	.0	0	0
Ann	1.4	.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	4.0	1977	24	4.0	1977	7	1987	23	1	1987
Feb	4.0	1980	6	7.0	1980	5	1979	18	1	1979
Mar	1.2	1983	24	1.2	1983	4	1980	2	#+	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	1.0	2000	19	1.0+	2000	0	0	0	0	0
Ann	4.0+	Feb 1980	6	7.0	Feb 1980	7	Jan 1987	23	1+	Jan 1987

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	.3	.2	.2	.0	.0
Mar	.1	.1	.0	.0	.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	.7	.6	.3	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.2	.1	.0	.0
Feb	.1	@	.0	.0
Mar	@	.0	.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	.0	.0	.0	.0
Ann	.3	.1	.0	.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	4/25	4/22	4/19	4/16	4/13	4/09	4/04
32	4/21	4/15	4/11	4/08	4/05	4/01	3/29	3/25	3/19
28	4/07	4/01	3/28	3/24	3/21	3/18	3/14	3/10	3/04
24	3/22	3/16	3/11	3/08	3/04	3/01	2/25	2/21	2/15
20	3/11	3/04	2/27	2/22	2/18	2/14	2/09	2/04	1/28
16	3/01	2/21	2/15	2/09	2/04	1/29	1/22	1/12	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	10/05	10/10	10/13	10/16	10/19	10/22	10/25	10/29	11/02
32	10/16	10/21	10/24	10/28	10/31	11/03	11/06	11/10	11/15
28	11/01	11/06	11/10	11/13	11/17	11/20	11/23	11/27	12/03
24	11/16	11/22	11/26	11/29	12/03	12/06	12/09	12/14	12/19
20	11/27	12/04	12/09	12/14	12/18	12/22	12/27	1/01	1/08
16	12/06	12/18	12/27	1/04	1/12	1/20	1/29	2/13	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	201	195	190	186	183	179	175	170	164
32	226	220	216	212	208	205	201	197	190
28	264	256	250	245	240	235	230	224	216
24	296	288	282	277	273	268	263	257	250
20	331	321	314	308	302	296	290	283	273
16	>365	>365	>365	>365	336	325	317	308	297

***** 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	773	586	430	192	51	3	0	0	9	190	423	703	3360
60	624	447	287	94	13	0	0	0	1	98	285	550	2399
57	536	369	210	53	5	0	0	0	0	60	212	464	1909
55	479	317	166	33	2	0	0	0	0	40	169	407	1613
50	345	201	81	7	0	0	0	0	0	12	86	276	1008
32	51	9	0	0	0	0	0	0	0	0	0	25	85

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	300	347	595	821	1106	1286	1444	1408	1182	873	570	345	10277
55	16	11	48	164	395	596	731	695	492	200	49	14	3411
57	11	7	30	124	335	536	669	633	432	157	32	9	2975
60	6	0	14	75	251	446	576	540	343	102	15	1	2369
65	0	0	2	23	134	299	421	385	201	40	3	0	1508
70	0	0	0	4	54	168	272	235	85	10	0	0	828

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	152	224	425	634	899	1085	1231	1196	978	682	388	194	152	376	801	1435	2334	3419	4650	5846	6824	7506	7894	8088
45	76	128	283	485	745	935	1076	1041	828	527	255	107	76	204	487	972	1717	2652	3728	4769	5597	6124	6379	6486
50	30	58	169	341	590	785	921	886	678	376	146	46	30	88	257	598	1188	1973	2894	3780	4458	4834	4980	5026
55	8	17	83	211	437	635	766	731	528	237	70	15	8	25	108	319	756	1391	2157	2888	3416	3653	3723	3738
60	1	0	30	110	285	485	611	576	378	124	28	1	1	1	31	141	426	911	1522	2098	2476	2600	2628	2629
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	107	161	285	416	599	733	828	814	660	442	251	130	107	268	553	969	1568	2301	3129	3943	4603	5045	5296	5426

(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