

Climatology of the United States No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: ANDERSON CO AP, SC

1971-2000

COOP ID: 380170

Climate Division: SC 2

NWS Call Sign: AND

Elevation: 760 Feet

Lat: 34°30N

Lon: 82°43W

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	52.0	31.3	41.7	80	1949	11	52.1	1974	-6	1985	21	30.2	1977	724	0	.0	.0	18.7	.6	15.7	@
Feb	56.8	34.0	45.4	80+	1996	27	51.8	1990	3	1958	17	37.4	1979	549	0	.0	.0	20.3	.3	11.6	.0
Mar	64.8	41.0	52.9	87+	1995	23	58.9	1997	5	1980	3	47.2	1971	380	5	.0	.0	28.7	@	5.4	.0
Apr	73.3	47.8	60.6	93+	1986	27	67.4	1981	24	1992	3	55.8	1993	164	30	.0	.3	29.9	.0	.9	.0
May	80.6	57.0	68.8	98	1953	31	74.6	1982	34	1989	8	65.3	1989	44	161	.0	2.6	30.9	.0	.0	.0
Jun	87.5	65.2	76.4	106	1954	27	82.3	1981	45	1972	1	72.8	1972	1	342	.4	11.6	30.0	.0	.0	.0
Jul	90.5	68.9	79.7	108	1952	29	84.3	1993	57	1996	4	75.4	1984	0	456	1.3	19.2	31.0	.0	.0	.0
Aug	88.7	68.1	78.4	105+	1954	17	82.1	1980	55	1968	29	75.0	1978	0	414	.6	14.4	31.0	.0	.0	.0
Sep	82.8	61.6	72.2	100	1954	6	76.1	1998	35	1967	30	69.8	2000	10	226	.0	5.0	30.0	.0	.0	.0
Oct	73.2	49.2	61.2	99	1954	5	69.2	1984	25	1952	22	54.5	1976	179	61	.0	.1	30.9	.0	.6	.0
Nov	63.6	40.4	52.0	87	1961	2	59.8	1985	12+	1950	26	43.7	1976	395	5	.0	.0	28.5	.0	6.2	.0
Dec	54.8	33.9	44.4	81	1955	25	52.4	1971	-3	1983	26	36.0	2000	641	0	.0	.0	21.4	.2	12.8	@
Ann	72.4	49.9	61.1	108	Jul 1952	29	84.3	Jul 1993	-6	Jan 1985	21	30.2	Jan 1977	3087	1700	2.3	53.2	331.3	1.1	53.2	.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/normal/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

003-A

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Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	4.58	4.57	2.69	1998	7	7.55	1998	.55	1981	11.5	7.9	3.5	1.1	1.47	1.91	2.55	3.10	3.63	4.17	4.77	5.47	6.37	7.78	9.07
Feb	4.15	4.03	2.66	1955	6	7.58	1997	.66	1978	9.7	7.2	3.0	1.0	1.34	1.73	2.31	2.81	3.29	3.78	4.33	4.96	5.78	7.06	8.23
Mar	4.97	4.67	4.23	1996	6	10.95	1980	1.38	1985	11.1	7.9	3.2	1.6	1.44	1.91	2.63	3.24	3.84	4.47	5.16	5.98	7.03	8.69	10.23
Apr	3.35	3.03	4.86	1998	17	14.18	1998	.41	1976	8.6	5.9	2.5	.9	.63	.93	1.42	1.87	2.34	2.84	3.40	4.09	4.99	6.45	7.84
May	3.90	3.77	3.45	1980	20	8.75	1973	.29	2000	9.8	6.2	2.4	1.3	.92	1.29	1.86	2.37	2.87	3.41	4.01	4.72	5.66	7.15	8.55
Jun	3.40	2.83	4.74	1994	4	13.01	1994	.43	1990	9.5	5.8	2.3	.8	.71	1.02	1.52	1.97	2.43	2.92	3.47	4.13	5.00	6.40	7.72
Jul	3.63	3.28	6.94	1964	18	9.35	1971	1.08	1980	10.4	6.8	2.5	.9	1.15	1.49	2.00	2.44	2.86	3.30	3.78	4.34	5.06	6.19	7.23
Aug	3.75	2.89	5.08	1961	22	11.09	1995	.70	1972	9.2	6.0	2.4	1.1	.71	1.05	1.60	2.11	2.62	3.18	3.81	4.57	5.58	7.21	8.75
Sep	4.19	3.24	5.43	1973	14	11.73	1980	.30	1987	8.5	5.6	2.9	1.5	.58	.93	1.53	2.11	2.72	3.39	4.16	5.12	6.40	8.49	10.51
Oct	3.23	2.65	3.70	1999	10	7.88	1990	.00	2000	6.7	4.8	2.1	.9	.21	.53	1.04	1.52	2.02	2.56	3.20	3.98	5.04	6.78	8.45
Nov	3.68	3.49	3.16	1957	17	7.07	1992	1.24	1991	9.1	6.1	2.7	1.1	1.53	1.86	2.34	2.73	3.09	3.46	3.86	4.32	4.90	5.79	6.60
Dec	3.84	3.54	3.06	1961	12	10.22	1983	.81	1988	10.3	6.5	2.6	1.1	1.11	1.47	2.02	2.50	2.96	3.45	3.98	4.61	5.43	6.71	7.89
Ann	46.67	45.94	6.94	Jul 1964	18	14.18	Apr 1998	.00	Oct 2000	114.4	76.7	32.1	13.3	33.61	36.15	39.40	41.86	44.05	46.15	48.33	50.73	53.64	57.86	61.50

+ 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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Station: ANDERSON CO AP, SC

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Climate Division: SC 2

NWS Call Sign: AND

Elevation: 760 Feet

Lat: 34° 30N

Lon: 82° 43W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	1.2	.0	#	0	7.0	1987	22	7.6	1987	4	1982	15	#	1996	.6	.4	.2	.1	.0	.5	.1	.0	.0
Feb	1.2	.0	#	0	5.5	1979	18	8.9	1979	6	1979	19	1+	1979	.8	.5	.1	.1	.0	.5	.2	@	.0
Mar	.7	.0	#	0	10.0	1971	25	10.0	1971	3	1993	14	#	1993	.2	.2	.1	.1	.1	.1	@	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	#	0	.0	0	0	.0	0	0	0	0	#	1997	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	#	.0	0	0	#	1975	23	#+	1975	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.6	.0	#	0	7.3	1971	3	7.3	1971	6	1971	4	#	1996	.2	.1	.1	.1	.0	.1	.1	@	.0
Ann	3.7	.0	N/A	N/A	10.0	Mar 1971	25	10.0	Mar 1971	6+	Feb 1979	19	1+	Feb 1979	1.8	1.2	.5	.4	.1	1.2	.4	.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

Complete documentation available from:

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Climate Division: SC 2

NWS Call Sign: AND

Elevation: 760 Feet

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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	4/30	4/24	4/20	4/16	4/13	4/10	4/07	4/03	3/28
32	4/17	4/11	4/07	4/04	4/01	3/28	3/25	3/21	3/15
28	4/03	3/27	3/22	3/17	3/13	3/09	3/05	2/28	2/21
24	3/18	3/11	3/06	3/01	2/25	2/21	2/16	2/11	2/03
20	3/09	3/01	2/23	2/18	2/13	2/08	2/03	1/28	1/18
16	3/01	2/19	2/11	2/04	1/29	1/21	1/12	12/27	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	10/10	10/15	10/19	10/22	10/25	10/28	10/31	11/04	11/09
32	10/19	10/25	10/29	11/02	11/05	11/08	11/12	11/16	11/22
28	11/02	11/08	11/12	11/15	11/19	11/22	11/25	11/29	12/05
24	11/15	11/22	11/27	12/01	12/05	12/09	12/13	12/18	12/25
20	11/26	12/07	12/15	12/22	12/28	1/03	1/10	1/19	2/01
16	12/11	12/22	12/30	1/06	1/14	1/22	1/31	2/18	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	216	208	203	198	194	190	185	179	172
32	243	235	228	223	218	213	207	201	192
28	276	267	260	255	249	244	238	232	223
24	306	298	292	287	282	278	272	267	258
20	>365	337	326	318	312	306	300	294	285
16	>365	>365	>365	>365	351	335	325	316	305

* 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

Complete documentation available from:
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Climate Division: SC 2 NWS Call Sign: AND Elevation: 760 Feet Lat: 34°30N Lon: 82°43W

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	724	549	380	164	44	1	0	0	10	179	395	641	3087
60	577	411	243	74	11	0	0	0	2	95	262	493	2168
57	490	334	175	38	4	0	0	0	0	59	193	406	1699
55	434	283	136	23	2	0	0	0	0	41	153	351	1423
50	307	173	62	4	0	0	0	0	0	13	75	230	864
32	39	6	0	0	0	0	0	0	0	0	0	16	61

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	339	381	648	857	1140	1331	1479	1437	1206	906	600	399	10723
55	21	14	71	189	429	641	766	724	516	234	63	21	3689
57	15	8	48	145	369	581	704	662	456	190	43	14	3235
60	9	2	24	90	283	491	611	569	368	133	22	7	2609
65	0	0	5	30	161	342	456	414	226	61	5	0	1700
70	0	0	0	6	73	202	304	260	108	21	0	0	974

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	160	225	437	643	917	1110	1251	1210	994	689	396	213	160	385	822	1465	2382	3492	4743	5953	6947	7636	8032	8245
45	81	130	297	493	762	960	1096	1055	844	534	263	115	81	211	508	1001	1763	2723	3819	4874	5718	6252	6515	6630
50	33	66	178	348	607	810	941	900	694	383	153	56	33	99	277	625	1232	2042	2983	3883	4577	4960	5113	5169
55	9	21	92	215	453	660	786	745	544	244	79	26	9	30	122	337	790	1450	2236	2981	3525	3769	3848	3874
60	0	2	36	114	303	510	631	590	394	132	29	2	0	2	38	152	455	965	1596	2186	2580	2712	2741	2743
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	90	139	263	403	605	765	860	843	677	434	235	120	90	229	492	895	1500	2265	3125	3968	4645	5079	5314	5434

(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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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