

Climatology of the United States

No. 20

1971-2000

Station: ANDREWS, SC

COOP ID: 380184

Climate Division: SC 4

NWS Call Sign:

Elevation: 35 Feet

Lat: 33°26N

Lon: 79°34W

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	57.0	34.7	45.9	80	1999	22	58.0	1974	2	1985	21	35.3	1977	602	0	.0	.0	24.9	.2	11.5	.0
Feb	60.2	35.9	48.1	85	1997	27	56.4	1990	14+	1996	5	38.1	1978	477	2	.0	.0	23.8	.2	8.6	.0
Mar	67.5	43.3	55.4	90	1982	20	60.7	1997	15	1980	3	49.7	1971	308	11	.0	.1	30.2	@	3.1	.0
Apr	74.3	49.6	62.0	96	1976	18	66.4	1999	29	1985	10	57.5	1971	127	35	.0	1.4	30.0	.0	.6	.0
May	81.4	59.3	70.4	99	2000	25	75.1	2000	36	1989	8	67.1	1972	18	184	.0	4.8	31.0	.0	.0	.0
Jun	86.4	66.8	76.6	105	1981	17	81.3	1998	46	1984	1	72.3	1972	1	348	.4	13.9	30.0	.0	.0	.0
Jul	89.9	71.2	80.6	104	1970	2	84.6	1986	54	1988	2	76.6	1975	0	483	1.3	21.1	31.0	.0	.0	.0
Aug	88.1	70.2	79.2	105	1983	21	82.9	1999	56+	1986	30	75.6	1976	0	439	.5	14.7	31.0	.0	.0	.0
Sep	83.3	64.7	74.0	102	1969	16	77.4	1980	40	1993	30	71.3	1984	3	272	.0	5.5	30.0	.0	.0	.0
Oct	75.8	53.1	64.5	95	1986	5	70.7	1985	25	1976	29	58.4	1987	114	97	.0	.3	31.0	.0	.1	.0
Nov	67.8	43.6	55.7	85+	2001	27	64.6	1985	21	1967	8	47.4	1976	300	21	.0	.0	29.5	.0	3.8	.0
Dec	59.8	36.8	48.3	85	1998	8	56.3	1971	9	1983	26	40.3	1989	521	3	.0	.0	26.9	.1	9.5	.0
Ann	74.3	52.4	63.4	105+	Aug 1983	21	84.6	Jul 1986	2	Jan 1985	21	35.3	Jan 1977	2471	1895	2.2	61.8	349.3	.5	37.2	.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: 1962-2001

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

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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: ANDREWS, SC

COOP ID: 380184

Climate Division: SC 4

NWS Call Sign:

Elevation: 35 Feet

Lat: 33°26N

Lon: 79°34W

Precipitation (inches)

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	4.54	4.30	3.80	1999	23	8.85	1998	.84	1981	9.2	7.5	2.9	1.3	1.73	2.15	2.76	3.26	3.74	4.22	4.75	5.36	6.13	7.33	8.41
Feb	3.47	2.84	2.60	1998	16	10.90	1998	.80	2000	6.9	5.9	2.7	.9	.84	1.17	1.67	2.12	2.57	3.04	3.57	4.20	5.02	6.32	7.55
Mar	3.84	3.69	3.35	1983	17	10.01	1983	.65	1997	7.6	6.5	2.8	1.0	1.02	1.38	1.94	2.43	2.91	3.41	3.97	4.64	5.50	6.86	8.13
Apr	2.89	2.50	4.15	1987	15	9.65	1999	.14	1972	5.7	4.4	1.6	.7	.39	.62	1.04	1.44	1.86	2.33	2.87	3.53	4.43	5.90	7.32
May	3.90	3.74	2.75	1984	7	8.33	1979	.65	1987	8.3	6.3	2.6	1.0	1.46	1.82	2.35	2.78	3.20	3.62	4.08	4.61	5.29	6.33	7.28
Jun	4.74	4.06	5.13	1979	16	11.56	1973	.80	1990	8.2	6.9	3.2	1.9	1.03	1.46	2.16	2.79	3.42	4.09	4.85	5.76	6.96	8.86	10.67
Jul	5.51	5.12	3.30	1994	5	12.15	1994	1.03	1988	9.8	8.2	3.7	1.6	2.10	2.62	3.35	3.96	4.54	5.13	5.77	6.50	7.45	8.89	10.21
Aug	5.59	4.71	4.20	1995	27	12.05	1995	1.72	1980	11.7	9.2	4.2	1.8	1.96	2.49	3.26	3.90	4.52	5.15	5.84	6.65	7.67	9.26	10.73
Sep	5.03	4.09	6.20	1999	15	15.70	1999	.35	1978	7.7	6.2	2.9	1.7	.52	.89	1.58	2.29	3.04	3.89	4.89	6.14	7.84	10.67	13.43
Oct	3.53	2.62	4.70	1990	11	14.41	1990	.00	2000	5.5	4.2	2.0	1.2	.07	.28	.72	1.21	1.78	2.44	3.24	4.28	5.74	8.22	10.70
Nov	2.81	2.31	4.30	1990	10	8.44	1985	.50	1973	6.4	4.5	1.8	.8	.50	.75	1.16	1.54	1.94	2.36	2.85	3.43	4.21	5.47	6.67
Dec	3.55	3.41	3.00	1976	12	9.81	1994	.42	1987	7.6	6.4	2.5	1.1	.66	.98	1.50	1.98	2.47	3.00	3.60	4.33	5.30	6.85	8.33
Ann	49.40	48.59	6.20	Sep 1999	15	15.70	Sep 1999	.00	Oct 2000	94.6	76.2	32.9	15.0	36.13	38.73	42.04	44.54	46.76	48.90	51.11	53.53	56.47	60.72	64.39

+ 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: 1962-2001

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

Complete documentation available from:

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

Climatography of the United States

No. 20 1971-2000

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Station: ANDREWS, SC

COOP ID: 380184

Climate Division: SC 4

NWS Call Sign:

Elevation: 35 Feet

Lat: 33°26N

Lon: 79°34W

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	.2	.0	#	0	3.0	1988	15	3.0	1988	#	1972	16	#	1972	.1	.1	.1	.0	.0	.0	.0	.0	.0
Feb	.1	.0	#	0	2.0	1979	18	2.0	1979	8	1973	11	#+	1979	@	@	.0	.0	.0	@	.0	.0	.0
Mar	.1	.0	#	0	2.5	1980	2	2.5	1980	1	1980	3	#	1980	@	@	.0	.0	.0	.0	.0	.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	0	0	0	.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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.2	.0	0	0	3.5	1980	27	3.5	1980	8	1989	24	1	1989	@	@	@	.0	.0	.0	.0	.0	.0
Ann	.6	.0	N/A	N/A	3.5	Dec 1980	27	3.5	Dec 1980	8+	Dec 1989	24	1	Dec 1989	.1	.1	.1	.0	.0	@	.0	.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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No. 20 1971-2000

Station: ANDREWS, SC

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Climate Division: SC 4

NWS Call Sign:

Elevation: 35 Feet

Lat: 33°26N

Lon: 79°34W

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	4/22	4/16	4/11	4/07	4/03	3/31	3/27	3/22	3/16
32	4/16	4/08	4/02	3/28	3/24	3/19	3/14	3/09	3/01
28	3/23	3/14	3/08	3/03	2/25	2/20	2/15	2/08	1/30
24	3/10	3/02	2/24	2/19	2/14	2/09	2/04	1/29	1/21
20	2/21	2/12	2/05	1/30	1/24	1/16	1/05	0/00	0/00
16	2/07	1/25	1/14	12/27	0/00	0/00	0/00	0/00	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	10/15	10/21	10/25	10/29	11/01	11/05	11/08	11/13	11/19
32	10/30	11/04	11/07	11/10	11/13	11/16	11/19	11/23	11/28
28	11/10	11/17	11/21	11/25	11/29	12/03	12/07	12/11	12/18
24	11/20	11/30	12/08	12/14	12/20	12/25	1/01	1/08	1/18
20	12/12	12/22	12/29	1/04	1/11	1/18	1/29	0/00	0/00
16	1/03	1/17	1/29	2/18	0/00	0/00	0/00	0/00	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	235	226	221	216	211	206	201	196	187
32	262	253	245	239	234	228	222	215	205
28	308	297	289	282	276	269	263	255	243
24	>365	327	317	310	303	297	290	283	273
20	>365	>365	>365	>365	>365	341	330	321	310
16	>365	>365	>365	>365	>365	>365	>365	>365	362

* 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 4 NWS Call Sign: Elevation: 35 Feet Lat: 33° 26N Lon: 79° 34W

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	602	477	308	127	18	1	0	0	3	114	300	521	2471
60	459	348	182	48	2	0	0	0	0	51	187	379	1656
57	380	275	125	21	0	0	0	0	0	28	134	299	1262
55	331	231	93	11	0	0	0	0	0	18	103	251	1038
50	227	142	36	1	0	0	0	0	0	5	45	154	610
32	22	5	0	0	0	0	0	0	0	0	0	6	33

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	452	454	725	898	1189	1337	1506	1462	1260	1006	711	511	11511
55	48	36	105	219	476	647	793	749	570	311	124	44	4122
57	35	24	75	169	414	587	731	687	510	259	95	29	3615
60	21	13	40	106	323	497	638	594	420	190	59	16	2917
65	0	2	11	35	184	348	483	439	272	97	21	3	1895
70	0	0	0	6	80	208	328	284	138	37	6	0	1087

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	267	328	550	727	982	1135	1287	1239	1055	789	524	337	267	595	1145	1872	2854	3989	5276	6515	7570	8359	8883	9220
45	159	212	399	577	827	985	1132	1084	905	634	384	212	159	371	770	1347	2174	3159	4291	5375	6280	6914	7298	7510
50	80	123	267	428	672	835	977	929	755	480	256	124	80	203	470	898	1570	2405	3382	4311	5066	5546	5802	5926
55	36	59	154	285	517	685	822	774	605	331	151	63	36	95	249	534	1051	1736	2558	3332	3937	4268	4419	4482
60	8	21	76	166	365	535	667	619	455	202	72	26	8	29	105	271	636	1171	1838	2457	2912	3114	3186	3212
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	163	208	344	468	656	785	890	868	736	515	329	203	163	371	715	1183	1839	2624	3514	4382	5118	5633	5962	6165

(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