

Climatology of the United States

No. 20

1971-2000

Station: PICKENS, SC

COOP ID: 386831

Climate Division: SC 2

NWS Call Sign:

Elevation: 1,162 Feet Lat: 34° 53N

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	50.5	30.4	40.5	78+	1975	31	51.0	1974	-6	1985	21	30.2	1977	761	0	.0	.0	18.2	.7	18.2	.1
Feb	55.2	33.3	44.3	81	1996	27	51.5	1976	0	1958	17	37.4	1978	582	0	.0	.0	21.1	.5	13.2	.0
Mar	63.2	40.1	51.7	88	1995	24	56.6	1974	8	1980	3	46.0	1971	419	4	.0	.0	29.2	@	6.1	.0
Apr	71.6	47.1	59.4	93	1986	27	64.0	1994	24+	1987	4	54.0	1997	189	20	.0	.2	29.8	.0	1.2	.0
May	78.8	55.4	67.1	98+	1996	20	71.1	2000	34	1971	4	63.4	1997	49	114	.0	1.5	30.9	.0	.0	.0
Jun	85.3	63.0	74.2	102	1952	27	78.7	1994	43	1972	1	69.5	1974	4	278	@	8.1	30.0	.0	.0	.0
Jul	88.7	67.0	77.9	105+	1952	29	82.2	1993	51	1964	12	74.2	1979	0	399	1.0	15.7	31.0	.0	.0	.0
Aug	87.0	66.0	76.5	105	1983	21	81.5	1999	52	1997	23	72.8	1992	0	356	.5	11.4	31.0	.0	.0	.0
Sep	81.3	60.4	70.9	101	1954	6	74.5	1980	35	1967	30	68.4	1974	10	185	@	4.0	30.0	.0	.0	.0
Oct	71.8	49.1	60.5	97	1954	5	67.3	1984	26+	2001	28	55.4	1976	177	37	.0	@	30.9	.0	.8	.0
Nov	61.6	40.1	50.9	85+	1974	2	58.7	1985	10	1970	24	44.8	1995	428	4	.0	.0	27.5	.0	7.2	.0
Dec	52.5	33.0	42.8	78	1955	25	51.2	1984	0	1962	13	34.6	2000	690	0	.0	.0	20.9	.3	14.9	.0
Ann	70.6	48.7	59.7	105+	Aug 1983	21	82.2	Jul 1993	-6	Jan 1985	21	30.2	Jan 1977	3309	1397	1.5	40.9	330.5	1.5	61.6	.1

+ 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: 1951-2001

(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: PICKENS, SC

COOP ID: 386831

Climate Division: SC 2

NWS Call Sign:

Elevation: 1,162 Feet Lat: 34°53N

Lon: 82°43W

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	5.79	5.75	5.25	1998	8	10.58	1998	.58	1981	11.6	8.4	3.9	1.6	2.08	2.62	3.41	4.07	4.70	5.34	6.05	6.87	7.91	9.53	11.01
Feb	4.83	5.53	4.27	1966	13	8.25	1998	.38	1978	9.3	6.8	3.6	1.4	1.35	1.81	2.50	3.11	3.70	4.32	5.01	5.82	6.87	8.53	10.07
Mar	5.82	5.52	4.85	1990	17	13.27	1980	.86	1985	11.1	8.2	3.9	1.9	1.89	2.44	3.26	3.95	4.62	5.31	6.06	6.94	8.08	9.85	11.48
Apr	3.93	3.50	3.67	1963	30	10.05	1998	.79	1976	8.8	6.2	2.8	1.2	1.05	1.43	1.99	2.49	2.98	3.49	4.06	4.73	5.61	6.99	8.28
May	4.79	4.75	3.03	1973	28	10.20	1976	.33	2000	10.5	7.4	3.4	1.5	1.09	1.54	2.24	2.87	3.50	4.17	4.92	5.81	6.99	8.86	10.62
Jun	4.21	3.93	4.75	1972	21	11.27	1972	.41	1990	10.2	6.8	3.1	1.2	1.02	1.41	2.03	2.57	3.12	3.69	4.34	5.10	6.11	7.70	9.19
Jul	4.59	4.07	3.69	1973	26	9.37	1989	.37	1980	10.4	6.9	3.2	1.2	1.12	1.55	2.22	2.82	3.40	4.03	4.72	5.55	6.63	8.35	9.95
Aug	4.84	4.04	5.18	1995	27	14.44	1995	.33	1997	10.4	6.7	3.0	1.5	.77	1.19	1.89	2.56	3.25	4.00	4.86	5.91	7.32	9.60	11.79
Sep	3.95	3.85	4.05	1973	14	8.06	2000	.12	1984	8.5	6.2	2.8	1.2	.65	.99	1.56	2.11	2.67	3.28	3.97	4.82	5.96	7.80	9.56
Oct	4.20	4.30	4.20	1965	1	8.24	1990	.01	2000	6.8	4.7	2.5	1.7	.33	.61	1.15	1.73	2.37	3.11	3.99	5.10	6.64	9.22	11.77
Nov	4.31	4.03	3.23	1968	18	9.65	1992	1.10	1991	9.0	6.5	3.1	1.4	1.47	1.87	2.47	2.97	3.46	3.96	4.50	5.13	5.95	7.21	8.37
Dec	4.65	4.64	3.78	1961	12	10.83	1983	.69	1980	10.9	7.6	3.3	1.4	1.41	1.85	2.51	3.08	3.63	4.20	4.83	5.57	6.53	8.03	9.41
Ann	55.91	56.38	5.25	Jan 1998	8	14.44	Aug 1995	.01	Oct 2000	117.5	82.4	38.6	17.2	40.06	43.14	47.07	50.06	52.70	55.26	57.90	60.82	64.35	69.47	73.90

+ 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: 1951-2001

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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Station: PICKENS, SC

COOP ID: 386831

Climate Division: SC 2

NWS Call Sign:

Elevation: 1,162 Feet

Lat: 34° 53N

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	.5	.0	#	0	8.5	1987	22	8.5	1987	12	1988	7	1	1988	.4	.3	.2	.1	.0	.2	.2	.1	.0
Feb	1.6	.0	#	0	5.0	1979	19	11.0	1979	8	1979	19	1	1979	.5	.4	.3	.1	.0	.3	.3	.1	.0
Mar	.4	.0	#	0	7.0	1971	26	7.0	1971	6	1983	25	#	1983	.1	.1	.1	.1	.0	@	.0	.0	.0
Apr	#	.0	0	0	#	1987	4	#	1987	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	#	1995	6	#+	1995	#	1995	6	#	1995	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.7	.0	#	0	8.0	1971	4	11.0	1971	8	1971	4	#+	1996	.1	.1	.1	.1	.0	.1	.1	@	.0
Ann	3.2	.0	N/A	N/A	8.5	Jan 1987	22	11.0+	Feb 1979	12	Jan 1988	7	1+	Jan 1988	1.1	.9	.7	.4	.0	.6	.6	.2	.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: PICKENS, SC

COOP ID: 386831

Climate Division: SC 2

NWS Call Sign:

Elevation: 1,162 Feet

Lat: 34° 53N

Lon: 82° 43W

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	5/05	4/28	4/23	4/19	4/15	4/11	4/07	4/02	3/26
32	4/22	4/14	4/09	4/04	3/31	3/26	3/21	3/16	3/08
28	4/12	4/02	3/26	3/20	3/14	3/08	3/02	2/23	2/13
24	3/29	3/18	3/09	3/02	2/23	2/16	2/09	1/31	1/19
20	3/07	2/27	2/22	2/17	2/12	2/08	2/02	1/26	1/14
16	3/01	2/20	2/14	2/08	2/03	1/28	1/22	1/13	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	10/22	10/24	10/27	10/30	11/04
32	10/17	10/23	10/28	11/01	11/05	11/09	11/13	11/18	11/25
28	11/01	11/06	11/09	11/13	11/15	11/18	11/21	11/25	11/30
24	11/12	11/18	11/22	11/26	11/29	12/03	12/06	12/11	12/17
20	11/25	12/03	12/08	12/12	12/17	12/21	12/26	1/01	1/13
16	12/10	12/19	12/26	1/01	1/07	1/13	1/20	1/30	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	207	200	194	189	184	178	171	162
32	247	238	230	224	219	213	207	200	190
28	276	265	258	252	246	239	233	226	215
24	309	297	289	282	276	270	263	256	246
20	>365	333	322	314	307	301	294	285	274
16	>365	>365	>365	348	337	327	319	310	298

* 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: Elevation: 1,162 Feet Lat: 34° 53N 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	761	582	419	189	49	4	0	0	10	177	428	690	3309
60	606	442	279	90	11	0	0	0	1	87	293	537	2346
57	522	363	206	50	3	0	0	0	0	51	221	451	1867
55	464	311	164	31	1	0	0	0	0	34	180	394	1579
50	329	193	81	7	0	0	0	0	0	9	96	263	978
32	40	6	0	0	0	0	0	0	0	0	1	20	67

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	302	348	608	821	1088	1264	1422	1379	1165	882	567	352	10198
55	13	9	59	162	376	574	709	666	475	203	56	13	3315
57	9	5	39	121	316	514	647	604	415	159	37	9	2875
60	0	0	19	71	231	424	554	511	326	101	19	2	2258
65	0	0	4	20	114	278	399	356	185	37	4	0	1397
70	0	0	0	3	40	150	251	207	75	8	0	0	734

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	133	203	411	619	870	1045	1196	1153	956	665	368	182	133	336	747	1366	2236	3281	4477	5630	6586	7251	7619	7801
45	62	114	274	473	715	895	1041	998	806	511	243	94	62	176	450	923	1638	2533	3574	4572	5378	5889	6132	6226
50	27	51	157	328	560	745	886	843	656	360	139	43	27	78	235	563	1123	1868	2754	3597	4253	4613	4752	4795
55	3	21	72	200	405	595	731	688	506	225	63	12	3	24	96	296	701	1296	2027	2715	3221	3446	3509	3521
60	0	0	27	99	261	445	576	533	358	115	19	0	0	0	27	126	387	832	1408	1941	2299	2414	2433	2433
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	79	133	257	389	566	713	816	799	643	414	216	103	79	212	469	858	1424	2137	2953	3752	4395	4809	5025	5128

(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