

Climatography of the United States

No. 20

1971-2000

Station: KINGSTREE 1 SE, SC

COOP ID: 384753

Climate Division: SC 4

NWS Call Sign:

Elevation: 60 Feet

Lat: 33° 39N

Lon: 79° 49W

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	57.3	32.0	44.7	85+	1937	25	58.2	1974	0+	1985	21	35.1	1977	637	0	.0	.0	23.2	.3	17.2	.1
Feb	61.3	33.7	47.5	86	1989	17	53.1	1990	0+	1973	13	39.1	1978	491	0	.0	.0	22.5	.2	13.8	.1
Mar	69.0	40.9	55.0	91	1935	21	61.5	1997	12+	1980	4	49.6	1971	321	9	.0	.0	29.6	@	7.0	.0
Apr	76.6	47.5	62.1	93+	1989	28	66.6	1981	25+	1992	4	58.0	1993	130	42	.0	.9	30.0	.0	1.5	.0
May	83.7	56.2	70.0	101+	1941	29	74.2	1991	34+	1989	9	65.8	1992	24	178	.0	5.8	31.0	.0	.0	.0
Jun	89.2	64.2	76.7	106	1952	27	82.5	1981	45+	1988	5	71.9	1972	1	352	.5	15.4	30.0	.0	.0	.0
Jul	92.5	68.5	80.5	108	1986	20	85.2	1986	53+	1988	8	76.0	1975	0	481	2.1	22.9	31.0	.0	.0	.0
Aug	90.7	67.5	79.1	107	1999	2	84.0	1999	51	1942	27	76.3	1976	0	436	.9	19.2	31.0	.0	.0	.0
Sep	85.8	61.7	73.8	104	1939	10	77.5	1980	36	1970	30	70.7	1984	3	267	.0	9.2	30.0	.0	.0	.0
Oct	77.2	48.8	63.0	98	1986	6	68.8	1985	25+	1976	30	57.5	1987	141	78	.0	.7	31.0	.0	1.3	.0
Nov	69.0	40.4	54.7	91	1961	3	64.0	1985	14	1970	25	47.8	1976	326	16	.0	.0	29.4	.0	8.6	.0
Dec	60.0	33.8	46.9	85	1931	20	55.3	1971	4	1989	25	36.8	1989	563	2	.0	.0	25.6	.1	15.8	.0
Ann	76.0	49.6	62.8	108	Jul 1986	20	85.2	Jul 1986	0+	Jan 1985	21	35.1	Jan 1977	2637	1861	3.5	74.1	344.3	.6	65.2	.2

+ 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: 1930-2001

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

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No. 20

1971-2000

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

Station: KINGSTREE 1 SE, SC

COOP ID: 384753

Climate Division: SC 4

NWS Call Sign:

Elevation: 60 Feet

Lat: 33°39N

Lon: 79°49W

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	4.71	4.85	4.08	1999	24	8.25	1991	1.28	1981	11.1	9.0	3.6	1.4	1.84	2.27	2.90	3.41	3.90	4.39	4.93	5.55	6.34	7.54	8.65
Feb	3.54	3.38	3.60	1998	17	9.64	1998	1.01	2000	7.9	6.4	2.8	1.1	.97	1.31	1.82	2.26	2.70	3.16	3.67	4.27	5.05	6.27	7.42
Mar	4.37	4.01	4.00	1998	9	9.18	1983	.85	1985	8.5	7.3	3.3	1.5	1.62	2.03	2.62	3.11	3.58	4.05	4.57	5.18	5.95	7.13	8.22
Apr	3.26	3.43	3.75	1958	16	7.03	1999	.32	1972	6.5	5.3	2.4	1.0	.53	.81	1.28	1.73	2.20	2.70	3.28	3.99	4.93	6.46	7.93
May	3.64	3.87	4.60	1966	27	8.00	1991	.77	1987	7.8	6.3	2.7	1.0	1.22	1.57	2.07	2.50	2.91	3.34	3.80	4.34	5.04	6.12	7.11
Jun	4.95	4.07	4.30	1995	6	14.09	1995	1.51+	1993	9.1	7.6	3.7	1.5	1.22	1.68	2.40	3.04	3.68	4.35	5.10	5.99	7.16	9.00	10.73
Jul	5.07	4.72	4.10	1985	25	12.31	1985	1.16	1973	9.9	8.4	3.8	1.8	1.39	1.87	2.60	3.24	3.86	4.52	5.24	6.10	7.22	8.98	10.62
Aug	5.67	4.71	4.75	1972	29	12.85	1971	1.81	1979	9.9	8.2	4.0	1.8	2.26	2.79	3.53	4.14	4.71	5.30	5.94	6.67	7.60	9.02	10.31
Sep	4.53	4.00	5.80	1979	5	13.49	1987	.05	1981	7.6	5.8	2.7	1.4	.41	.73	1.33	1.96	2.65	3.43	4.36	5.52	7.12	9.78	12.39
Oct	3.39	3.04	8.00	1990	11	12.60	1990	.00	2000	5.6	4.3	2.0	1.0	.16	.45	.96	1.46	1.99	2.59	3.29	4.17	5.37	7.36	9.30
Nov	2.66	2.43	3.60	1948	24	7.09	1985	.55	1981	6.9	5.1	1.9	.8	.66	.91	1.30	1.64	1.98	2.34	2.75	3.22	3.85	4.84	5.77
Dec	3.93	3.94	5.50	1994	23	9.99	1994	.66	1984	8.7	7.0	2.8	1.2	1.08	1.45	2.01	2.51	3.00	3.50	4.07	4.74	5.60	6.97	8.24
Ann	49.72	49.36	8.00	Oct 1990	11	14.09	Jun 1995	.00	Oct 2000	99.5	80.7	35.7	15.5	37.42	39.85	42.94	45.27	47.32	49.30	51.33	53.56	56.25	60.13	63.46

+ 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: 1930-2001

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

Complete documentation available from:
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Station: KINGSTREE 1 SE, SC

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Climate Division: SC 4

NWS Call Sign:

Elevation: 60 Feet

Lat: 33°39N

Lon: 79°49W

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	.4	.0	#	0	3.5	2000	25	4.5	2000	5	1988	15	1	1988	.3	.2	@	.0	.0	.1	.0	.0	.0
Feb	.6	.0	#	0	6.5	1973	10	13.0	1973	13	1973	12	2	1973	.2	.1	.1	.1	.0	.2	.2	.2	.1
Mar	.2	.0	#	0	3.5	1980	3	3.5	1980	4	1980	3	#+	1998	.1	.1	.1	.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	.3	.0	#	0	4.0	1989	25	4.8	1989	4	1989	25	#+	1989	.2	.1	@	.0	.0	.1	@	.0	.0
Ann	1.5	.0	N/A	N/A	6.5	Feb 1973	10	13.0	Feb 1973	13	Feb 1973	12	2	Feb 1973	.8	.5	.2	.1	.0	.4	.2	.2	.1

+ 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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NWS Call Sign:

Elevation: 60 Feet

Lat: 33°39N

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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	5/01	4/25	4/21	4/17	4/14	4/10	4/07	4/02	3/27
32	4/18	4/12	4/07	4/04	3/31	3/28	3/24	3/20	3/14
28	4/07	3/30	3/25	3/20	3/16	3/12	3/07	3/01	2/22
24	3/15	3/08	3/03	2/26	2/22	2/18	2/13	2/08	2/01
20	3/07	2/28	2/23	2/18	2/14	2/09	2/05	1/30	1/23
16	2/14	2/05	1/29	1/23	1/17	1/09	12/26	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	10/08	10/13	10/17	10/20	10/23	10/26	10/29	11/02	11/07
32	10/13	10/20	10/24	10/28	11/01	11/04	11/08	11/13	11/19
28	10/26	11/01	11/06	11/09	11/13	11/16	11/20	11/24	11/30
24	11/12	11/20	11/25	11/30	12/04	12/08	12/13	12/18	12/26
20	11/22	12/02	12/10	12/16	12/22	12/28	1/03	1/11	1/21
16	12/18	12/27	1/03	1/10	1/17	1/26	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	215	207	201	196	191	187	182	176	168
32	239	230	224	219	214	209	204	197	189
28	274	262	254	248	241	235	228	220	209
24	310	301	295	289	284	279	274	268	259
20	349	334	325	317	310	302	295	286	274
16	>365	>365	>365	>365	>365	361	345	333	320

* 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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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	637	491	321	130	24	1	0	0	3	141	326	563	2637
60	492	358	193	53	4	0	0	0	0	69	207	420	1796
57	410	282	133	25	1	0	0	0	0	40	150	339	1380
55	359	234	99	14	0	0	0	0	0	27	118	289	1140
50	248	138	39	2	0	0	0	0	0	8	54	184	673
32	26	3	0	0	0	0	0	0	0	0	0	10	39

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	419	437	711	902	1177	1341	1504	1459	1254	961	680	472	11317
55	38	24	98	226	464	651	791	746	564	274	108	37	4021
57	28	15	69	177	403	591	729	684	504	226	81	26	3533
60	17	7	36	115	313	501	636	591	414	162	48	14	2854
65	0	0	9	42	178	352	481	436	267	78	16	2	1861
70	0	0	1	10	79	210	326	281	134	28	4	0	1073

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	208	256	469	663	936	1101	1260	1214	1016	713	446	259	208	464	933	1596	2532	3633	4893	6107	7123	7836	8282	8541
45	117	156	329	513	781	951	1105	1059	866	560	312	157	117	273	602	1115	1896	2847	3952	5011	5877	6437	6749	6906
50	59	85	207	370	626	801	950	904	716	408	197	86	59	144	351	721	1347	2148	3098	4002	4718	5126	5323	5409
55	26	41	114	239	471	651	795	749	566	267	108	42	26	67	181	420	891	1542	2337	3086	3652	3919	4027	4069
60	6	14	51	133	320	501	640	594	417	156	53	17	6	20	71	204	524	1025	1665	2259	2676	2832	2885	2902
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	151	189	314	436	615	746	851	828	689	474	308	181	151	340	654	1090	1705	2451	3302	4130	4819	5293	5601	5782

(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.

- 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/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