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: YEMASSEE, SC **COOP ID: 389469**

Climate Division: SC 7 **NWS Call Sign:** **Elevation: 25 Feet** **Lat: 32˚41N** **Lon: 80˚51W**

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	61.3	35.9	48.6	85+	1957	30	62.1	1974	0	1985	21	39.3	1977	525	0	.0	.0	26.5	.2	13.2	@
Feb	65.4	38.1	51.8	88	1930	22	58.5	1990	8	1996	5	42.5	1978	377	6	.0	.0	25.6	.2	9.5	.0
Mar	72.7	44.6	58.7	92+	1974	31	64.7	1974	16	1980	3	52.1	1971	228	30	.0	.1	30.3	@	4.2	.0
Apr	79.2	50.0	64.6	99	1986	27	68.9	1981	27	1997	2	60.7	1993	79	67	.0	1.7	30.0	.0	.7	.0
May	85.8	57.9	71.9	102	1941	30	75.8	1991	33+	1971	4	68.4	1997	8	220	.0	7.8	31.0	.0	.0	.0
Jun	90.5	65.5	78.0	108	1985	3	83.6	1981	45	1988	5	73.4	1997	0	391	.8	17.8	30.0	.0	.0	.0
Jul	93.1	69.3	81.2	106	1998	19	84.9	1986	56+	1997	13	78.3	1975	0	502	1.9	23.8	31.0	.0	.0	.0
Aug	91.0	68.4	79.7	106	1954	18	82.2+	1999	53+	1999	31	77.1	1996	0	457	.6	19.5	31.0	.0	.0	.0
Sep	86.8	63.4	75.1	102	1931	18	79.0	1980	38	1967	30	72.5	1976	2	306	.0	9.3	30.0	.0	.0	.0
Oct	78.9	52.1	65.5	97	1954	6	70.3	1984	23	2001	28	59.4	1976	101	116	.0	.8	31.0	.0	.7	.0
Nov	71.3	43.8	57.6	91	1961	1	65.8	1985	10	1970	25	50.6	1976	258	34	.0	.0	29.8	.0	6.4	.0
Dec	63.7	37.5	50.6	86	1998	9	58.0	1971	10+	1989	25	41.6	2000	456	10	.0	.0	28.0	.1	11.6	.0
Ann	78.3	52.2	65.3	108	Jun 1985	3	84.9	Jul 1986	0	Jan 1985	21	39.3	Jan 1977	2034	2139	3.3	80.8	354.2	.5	46.3	@

\+ 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: 1930-2001

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

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	4.17	4.06	4.00	1990	7	9.22	1993	.40	1985
Feb	3.53	3.49	3.25	1959	5	7.27	1998	.81	1991
Mar	4.38	4.10	5.26	1959	6	10.64	1980	.42	1986
Apr	3.46	2.87	4.50	1948	1	10.32	1991	.36	1994
May	3.76	3.32	7.25	1969	19	11.64	1979	.20	1996
Jun	6.14	4.92	6.25	1941	27	15.06	1995	3.18	1996
Jul	5.58	5.58	5.90	1954	9	10.65	1985	1.54	1987
Aug	6.85	6.29	9.00	1940	12	21.11	1986	1.54	1984
Sep	5.14	4.82	6.00	1945	17	12.30	1979	.36	1990
Oct	3.37	2.52	6.70	1944	20	12.67	1990	.00	2000
Nov	2.49	2.13	3.75	1969	1	5.87	1985	.60	1998
Dec	3.57	3.36	2.89	1941	24	6.54	1997	.42	1984
Ann	52.44	54.12	9.00	Aug 1940	12	21.11	Aug 1986	.00	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.4	6.7	3.0	1.1
Feb	7.7	5.6	2.6	.9
Mar	8.2	5.9	3.1	1.3
Apr	6.7	5.0	2.1	1.1
May	8.5	6.0	2.5	1.1
Jun	11.6	8.1	3.7	2.1
Jul	11.2	8.4	4.3	1.7
Aug	12.1	8.3	3.9	2.0
Sep	9.7	6.9	3.4	1.5
Oct	6.5	4.3	1.8	1.1
Nov	7.6	4.6	1.3	.6
Dec	8.0	5.5	2.5	1.1
Ann	107.2	75.3	34.2	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	1.19	1.59	2.19	2.71	3.21	3.74	4.32	5.01	5.90	7.30	8.60
Feb	1.02	1.36	1.86	2.30	2.72	3.17	3.66	4.24	4.98	6.15	7.24
Mar	1.17	1.59	2.22	2.77	3.32	3.89	4.53	5.28	6.26	7.79	9.23
Apr	.54	.84	1.34	1.82	2.31	2.85	3.47	4.23	5.25	6.89	8.48
May	.63	.96	1.50	2.02	2.55	3.13	3.79	4.59	5.66	7.39	9.04
Jun	2.23	2.81	3.64	4.34	5.00	5.68	6.42	7.28	8.37	10.06	11.61
Jul	1.92	2.44	3.21	3.86	4.48	5.12	5.82	6.64	7.68	9.30	10.79
Aug	1.47	2.10	3.10	4.01	4.93	5.91	7.01	8.33	10.06	12.84	15.47
Sep	.76	1.19	1.93	2.64	3.39	4.20	5.14	6.28	7.83	10.34	12.76
Oct	.19	.51	1.03	1.52	2.05	2.63	3.31	4.15	5.29	7.17	9.00
Nov	.61	.84	1.20	1.52	1.84	2.18	2.56	3.01	3.60	4.53	5.40
Dec	.75	1.07	1.60	2.07	2.55	3.06	3.64	4.33	5.25	6.71	8.09
Ann	41.37	43.60	46.40	48.50	50.34	52.10	53.90	55.87	58.24	61.63	64.53

\+ 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

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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	.0	.0	0	0
Feb	.6	.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	.2	.0	#	0
Ann	.8	.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	.0	0	0	.0	0	0	0	0	0	0
Feb	12.0	1973	10	12.0+	1973	#	1996	4	#	1996
Mar	#	1993	13	#+	1993	0	0	0	0	0
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	3.6	1989	24	3.6	1989	4	1989	24	#	1989
Ann	12.0	Feb 1973	10	12.0+	Feb 1973	4	Dec 1989	24	#+	Feb 1996

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.0	.0	.0	.0	.0
Feb	.1	.1	.1	.1	.1
Mar	.0	.0	.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	.1	.0	.0
Ann	.2	.2	.2	.1	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.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
Ann	@	@	.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	4/28	4/23	4/18	4/15	4/11	4/08	4/04	3/31	3/25
32	4/18	4/11	4/06	4/01	3/28	3/24	3/20	3/15	3/07
28	3/31	3/23	3/17	3/12	3/08	3/03	2/26	2/20	2/12
24	3/12	3/04	2/27	2/23	2/19	2/14	2/10	2/05	1/28
20	3/03	2/23	2/17	2/13	2/08	2/03	1/29	1/22	1/09
16	2/09	1/30	1/22	1/14	1/05	12/20	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	10/10	10/16	10/20	10/23	10/27	10/30	11/03	11/07	11/13
32	10/19	10/26	10/30	11/03	11/06	11/10	11/14	11/18	11/24
28	10/30	11/05	11/10	11/14	11/18	11/22	11/26	11/30	12/07
24	11/14	11/22	11/29	12/04	12/09	12/14	12/20	12/26	1/04
20	11/28	12/09	12/16	12/23	12/30	1/05	1/13	1/22	2/09
16	12/14	12/27	1/05	1/15	1/26	2/15	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	224	215	208	203	198	193	187	181	172
32	251	241	234	228	222	217	211	204	194
28	282	273	266	260	255	249	243	236	227
24	330	318	308	300	293	286	278	269	256
20	>365	>365	340	328	320	312	305	298	287
16	>365	>365	>365	>365	>365	>365	354	339	327

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	525	377	228	79	8	0	0	0	2	101	258	456	2034
60	392	251	127	24	0	0	0	0	0	44	157	319	1314
57	320	186	81	9	0	0	0	0	0	23	109	248	976
55	277	150	56	4	0	0	0	0	0	15	82	206	790
50	188	78	19	0	0	0	0	0	0	4	33	122	444
32	17	0	0	0	0	0	0	0	0	0	0	3	20

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	531	553	825	978	1235	1381	1525	1480	1294	1038	766	580	12186
55	78	59	169	292	522	691	812	767	604	340	158	70	4562
57	58	39	131	237	460	631	750	705	544	287	125	49	4016
60	37	20	84	162	367	541	657	612	454	214	83	28	3259
65	0	6	30	67	220	391	502	457	306	116	34	10	2139
70	0	0	8	16	102	246	347	302	167	48	11	0	1247

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	294	349	569	734	983	1142	1269	1236	1055	791	523	339	294	643	1212	1946	2929	4071	5340	6576	7631	8422	8945	9284
45	182	234	418	584	828	992	1114	1081	905	636	380	213	182	416	834	1418	2246	3238	4352	5433	6338	6974	7354	7567
50	104	137	282	435	673	842	959	926	755	483	250	121	104	241	523	958	1631	2473	3432	4358	5113	5596	5846	5967
55	46	71	166	293	518	692	804	771	605	333	152	62	46	117	283	576	1094	1786	2590	3361	3966	4299	4451	4513
60	17	26	81	170	364	542	649	616	455	200	73	25	17	43	124	294	658	1200	1849	2465	2920	3120	3193	3218
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	195	241	376	479	652	770	855	848	724	524	352	221	195	436	812	1291	1943	2713	3568	4416	5140	5664	6016	6237

(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.
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