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: WEST PELZER 2 W, SC **COOP ID: 389122**

Climate Division: SC 2 **NWS Call Sign:** **Elevation: 862 Feet** **Lat: 34˚39N** **Lon: 82˚29W**

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	51.3	30.7	41.0	78	1975	31	53.4	1974	-4	1985	21	31.1	1977	745	0	.0	.0	18.0	.7	17.9	@
Feb	56.2	32.9	44.6	81	1996	28	50.9	1976	7+	1996	6	37.4	1978	573	0	.0	.0	21.1	.3	14.0	.0
Mar	64.0	39.7	51.9	88	1995	24	56.8	1974	7	1980	3	46.5	1996	413	6	.0	.0	28.8	@	7.7	.0
Apr	72.2	47.0	59.6	93	1986	27	64.2	1981	24+	1987	1	55.8+	1997	178	16	.0	.2	29.8	.0	1.5	.0
May	79.5	56.4	68.0	94+	1996	21	71.4	1991	32+	1989	8	63.8	1997	39	130	.0	1.5	31.0	.0	.1	.0
Jun	86.2	64.6	75.4	100+	1990	22	79.3	1981	41	1972	1	70.9	1972	1	313	.1	9.8	30.0	.0	.0	.0
Jul	89.8	68.9	79.4	104+	1986	21	84.4	1993	54	1967	5	75.4	1979	0	444	1.1	18.0	31.0	.0	.0	.0
Aug	88.0	68.0	78.0	104	1983	21	81.8	1988	52+	1968	29	76.0	1992	0	404	.5	13.1	31.0	.0	.0	.0
Sep	82.3	61.8	72.1	97	1993	2	75.5	1973	31	1967	30	68.6	2000	8	220	.0	4.5	30.0	.0	.0	.0
Oct	72.5	49.0	60.8	92	1986	2	68.3	1984	25+	1976	29	55.9	1987	173	43	.0	.2	31.0	.0	1.2	.0
Nov	63.0	40.5	51.8	85	1974	2	59.9	1985	12	1970	24	45.7	1976	403	4	.0	.0	28.3	.0	8.0	.0
Dec	53.8	33.1	43.5	79	1984	18	51.4	1984	1+	1983	26	36.0+	2000	667	0	.0	.0	21.2	.3	16.0	.0
Ann	71.6	49.4	60.5	104+	Jul 1986	21	84.4	Jul 1993	-4	Jan 1985	21	31.1	Jan 1977	3200	1580	1.7	47.3	331.2	1.3	66.4	@

\+ 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: 1965-2001

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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	5.18	5.47	3.85	1969	20	8.56	1982	.46	1981
Feb	4.39	4.67	3.35	1984	14	7.50	1975	.32	1978
Mar	5.45	5.30	3.48	1977	30	11.98	1980	1.00	1985
Apr	3.58	3.30	4.33	1998	17	10.94	1998	.91	1976
May	4.15	4.19	3.25	1972	14	10.54	1975	.03	1999
Jun	3.92	4.15	3.89	1968	8	9.96	1994	.12	1986
Jul	4.09	4.28	3.95	1997	24	10.04	1984	.35	1980
Aug	3.90	3.13	12.81	1995	27	17.53	1995	.93	1976
Sep	4.38	4.16	5.35	1975	18	10.51	1975	.00	1984
Oct	3.79	3.60	4.05	1977	26	8.64	1990	.00	2000
Nov	3.92	3.34	2.81	1968	18	9.19	1985	1.26	1981
Dec	4.21	3.97	3.52	1972	15	11.06	1983	.67	1980
Ann	50.96	52.39	12.81	Aug 1995	27	17.53	Aug 1995	.00+	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.0	8.0	3.5	1.4
Feb	8.5	6.7	3.2	1.2
Mar	10.0	7.8	3.5	1.8
Apr	7.8	5.8	2.5	1.0
May	8.5	6.6	2.9	1.2
Jun	8.3	6.4	2.5	1.0
Jul	8.9	6.7	2.6	1.2
Aug	8.7	6.0	2.3	.9
Sep	7.6	5.7	2.4	1.3
Oct	6.1	4.8	2.4	1.3
Nov	8.6	6.2	2.8	1.2
Dec	9.7	7.2	2.9	1.3
Ann	102.7	77.9	33.5	14.8

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	1.69	2.18	2.90	3.52	4.11	4.72	5.40	6.18	7.20	8.77	10.22
Feb	1.30	1.72	2.35	2.89	3.41	3.96	4.56	5.27	6.18	7.61	8.94
Mar	1.75	2.26	3.03	3.68	4.31	4.96	5.67	6.51	7.58	9.26	10.81
Apr	.86	1.19	1.71	2.18	2.64	3.13	3.68	4.33	5.19	6.54	7.82
May	.39	.69	1.25	1.83	2.46	3.17	4.01	5.06	6.50	8.90	11.26
Jun	.76	1.11	1.69	2.22	2.75	3.33	3.98	4.77	5.81	7.49	9.08
Jul	.80	1.17	1.77	2.32	2.88	3.48	4.16	4.98	6.07	7.81	9.47
Aug	.70	1.05	1.62	2.15	2.69	3.28	3.95	4.75	5.83	7.57	9.22
Sep	.51	1.05	1.78	2.41	3.05	3.72	4.49	5.40	6.62	8.56	10.41
Oct	.29	.69	1.30	1.86	2.44	3.07	3.79	4.68	5.87	7.81	9.68
Nov	1.41	1.78	2.31	2.76	3.19	3.62	4.10	4.65	5.35	6.44	7.44
Dec	1.23	1.63	2.23	2.75	3.26	3.79	4.37	5.06	5.95	7.34	8.63
Ann	34.97	38.02	41.95	44.95	47.62	50.22	52.91	55.89	59.51	64.79	69.37

\+ 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: 1965-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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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	1.5	.0	#	0
Feb	1.5	.0	#	0
Mar	.9	.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	.1	.0	#	0
Dec	.4	.0	#	0
Ann	4.4	.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	7.0	1987	22	7.0	1987	11	1988	8	2	1988
Feb	6.0	1979	19	14.0	1979	6	1979	19	1	1979
Mar	7.0	1971	26	7.0	1971	7	1971	26	#+	1999
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	1.5	2000	20	1.5+	2000	1	2000	20	#	2000
Dec	8.0	1971	4	8.0	1971	8	1971	4	#+	1993
Ann	8.0	Dec 1971	4	14.0	Feb 1979	11	Jan 1988	8	2	Jan 1988

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.6	.6	.1	@	.0
Feb	.7	.6	.2	@	.0
Mar	.3	.3	.1	.1	.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
Dec	.1	.1	@	@	.0
Ann	1.7	1.6	.4	.1	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	1.2	.3	.1	.0
Feb	.5	.2	@	.0
Mar	.4	.2	.1	.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
Dec	.1	.1	@	.0
Ann	2.2	.8	.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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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	5/04	4/29	4/25	4/22	4/19	4/16	4/12	4/09	4/03
32	4/24	4/18	4/13	4/09	4/05	4/02	3/29	3/24	3/17
28	4/11	4/05	3/31	3/27	3/24	3/20	3/16	3/12	3/06
24	3/29	3/21	3/15	3/10	3/05	2/28	2/23	2/17	2/08
20	3/16	3/08	3/02	2/25	2/20	2/15	2/10	2/04	1/27
16	3/04	2/23	2/16	2/11	2/05	1/30	1/23	1/12	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	10/05	10/09	10/13	10/16	10/19	10/21	10/24	10/28	11/01
32	10/12	10/17	10/21	10/25	10/28	10/31	11/04	11/08	11/13
28	10/29	11/03	11/07	11/11	11/14	11/17	11/20	11/24	11/30
24	11/09	11/15	11/20	11/24	11/28	12/02	12/06	12/11	12/17
20	11/26	12/03	12/08	12/12	12/16	12/20	12/25	12/30	1/06
16	12/03	12/14	12/22	12/29	1/05	1/12	1/22	2/08	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	200	194	189	186	182	179	175	170	164
32	229	221	215	210	205	200	195	189	180
28	257	249	244	239	234	230	225	219	211
24	295	286	279	273	268	262	256	249	240
20	322	313	306	301	296	292	287	281	273
16	>365	>365	>365	339	328	320	312	303	292

***** 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	745	573	413	178	39	1	0	0	8	173	403	667	3200
60	598	433	275	79	7	0	0	0	1	85	268	518	2264
57	511	354	204	41	2	0	0	0	0	50	198	431	1791
55	454	302	163	24	0	0	0	0	0	33	157	374	1507
50	324	184	83	5	0	0	0	0	0	9	78	249	932
32	45	5	0	0	0	0	0	0	0	0	0	20	70

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	323	356	616	828	1114	1302	1467	1427	1202	892	591	376	10494
55	19	9	66	163	401	612	754	714	512	212	59	18	3539
57	14	5	45	120	340	552	692	652	452	167	39	12	3090
60	8	0	23	67	253	462	599	559	363	110	19	6	2469
65	0	0	6	16	130	313	444	404	220	43	4	0	1580
70	0	0	0	1	49	177	293	251	101	11	0	0	883

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	141	207	408	613	879	1074	1225	1187	965	658	369	183	141	348	756	1369	2248	3322	4547	5734	6699	7357	7726	7909
45	69	117	272	465	724	924	1070	1032	815	503	240	99	69	186	458	923	1647	2571	3641	4673	5488	5991	6231	6330
50	31	58	165	319	570	774	915	877	665	354	139	46	31	89	254	573	1143	1917	2832	3709	4374	4728	4867	4913
55	6	18	83	194	415	624	760	722	515	219	65	19	6	24	107	301	716	1340	2100	2822	3337	3556	3621	3640
60	0	0	32	99	267	474	605	567	367	112	23	1	0	0	32	131	398	872	1477	2044	2411	2523	2546	2547
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	86	143	259	390	579	734	837	819	653	417	229	113	86	229	488	878	1457	2191	3028	3847	4500	4917	5146	5259

(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