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: PELION 4 NW, SC **COOP ID: 386775**

Climate Division: SC 6 **NWS Call Sign:** **Elevation: 450 Feet** **Lat: 33˚43N** **Lon: 81˚16W**

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	55.8	33.5	44.7	79+	1975	31	57.0	1974	-2	1985	21	33.5	1977	639	0	.0	.0	22.8	.3	15.4	@
Feb	60.6	35.5	48.1	84	1996	26	55.6	1990	2	1973	12	38.5	1978	475	0	.0	.0	23.0	.3	12.4	.0
Mar	68.7	42.4	55.6	89	1974	10	61.4	1997	-1	1980	3	50.1	1971	308	14	.0	.0	30.2	@	6.8	@
Apr	76.5	48.7	62.6	94+	1986	27	67.7	1981	22	1992	3	57.5	1983	115	44	.0	.8	30.0	.0	1.9	.0
May	83.4	57.8	70.6	99	1962	28	74.4	2000	31	1963	2	66.8	1992	19	193	.0	4.9	31.0	.0	@	.0
Jun	88.9	65.9	77.4	103	1990	21	81.5	1986	42+	1988	5	73.3	1972	0	371	.6	14.9	30.0	.0	.0	.0
Jul	91.3	70.3	80.8	107	1980	13	85.3	1986	51	1988	7	77.5	1975	0	489	1.5	20.8	31.0	.0	.0	.0
Aug	89.6	68.9	79.3	107	1980	1	82.7	1987	52+	1997	24	76.9	1981	0	443	.7	16.0	31.0	.0	.0	.0
Sep	85.1	63.0	74.1	99+	1999	6	77.7	1980	36	1967	30	71.5	1984	3	274	.0	7.4	30.0	.0	.0	.0
Oct	76.4	50.2	63.3	98	1981	6	68.9	1985	22+	2001	29	57.8	1987	128	75	.0	.3	31.0	.0	1.6	.0
Nov	67.2	41.8	54.5	85+	1993	16	62.8	1985	10	1970	25	47.5	1976	329	14	.0	.0	29.2	.0	7.8	.0
Dec	58.6	35.5	47.1	83	1990	23	55.8	1971	3	1962	13	38.3	2000	558	1	.0	.0	24.8	.1	13.5	.0
Ann	75.2	51.1	63.2	107+	Aug 1980	1	85.3	Jul 1986	-2	Jan 1985	21	33.5	Jan 1977	2574	1918	2.8	65.1	344.0	.7	59.4	.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/normals/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

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

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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	4.96	4.25	3.65	1993	8	10.64	2000	1.00	1981
Feb	4.09	3.81	3.20	1985	6	8.06	1995	.79	1976
Mar	4.81	4.58	3.23	1980	13	11.07	1980	.55	1985
Apr	3.06	3.12	4.16	1969	16	6.50	1983	.19	1976
May	3.27	2.99	3.92	1959	10	6.59	1984	.31	2000
Jun	5.26	5.29	5.11	1994	28	14.15	1973	1.56	1986
Jul	5.71	4.98	3.96	1991	4	12.36	1971	1.40	1980
Aug	5.51	5.47	5.30	1987	7	12.08	1995	2.00	1999
Sep	4.51	4.96	7.10	1998	4	8.77	1980	.00	1985
Oct	3.12	2.49	4.41	1964	16	13.85	1990	.00	2000
Nov	3.12	2.61	2.25	1986	13	8.84	1985	.61	1973
Dec	3.61	3.13	2.80	1992	28	10.27	1981	.40	1988
Ann	51.03	50.80	7.10	Sep 1998	4	14.15	Jun 1973	.00+	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.3	8.0	3.8	1.4
Feb	8.4	6.5	2.9	1.3
Mar	9.0	7.4	3.3	1.6
Apr	6.7	5.3	2.4	.8
May	7.5	5.7	2.6	.8
Jun	9.4	7.7	3.4	1.7
Jul	10.5	8.8	3.7	1.8
Aug	9.8	8.0	3.5	1.6
Sep	7.6	6.1	3.0	1.3
Oct	5.7	4.2	2.2	.8
Nov	6.9	4.9	2.6	1.1
Dec	8.6	6.5	2.3	.9
Ann	100.4	79.1	35.7	15.1

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	1.68	2.15	2.84	3.42	3.97	4.55	5.18	5.91	6.85	8.30	9.65
Feb	1.00	1.39	1.98	2.51	3.04	3.59	4.21	4.94	5.91	7.43	8.86
Mar	1.20	1.65	2.35	2.97	3.59	4.23	4.96	5.82	6.95	8.73	10.40
Apr	.43	.69	1.13	1.55	1.99	2.48	3.05	3.74	4.67	6.19	7.66
May	.81	1.12	1.60	2.02	2.44	2.88	3.37	3.95	4.72	5.93	7.06
Jun	1.64	2.14	2.88	3.52	4.14	4.77	5.48	6.30	7.36	9.02	10.55
Jul	1.68	2.22	3.04	3.74	4.43	5.14	5.93	6.86	8.06	9.94	11.68
Aug	1.90	2.42	3.17	3.81	4.43	5.06	5.75	6.55	7.58	9.17	10.64
Sep	.36	.85	1.58	2.24	2.93	3.68	4.53	5.58	6.98	9.25	11.44
Oct	.16	.45	.93	1.39	1.88	2.42	3.06	3.85	4.92	6.69	8.42
Nov	.70	.99	1.45	1.86	2.27	2.71	3.20	3.79	4.56	5.79	6.95
Dec	.81	1.15	1.67	2.15	2.63	3.13	3.70	4.38	5.27	6.69	8.03
Ann	39.26	41.61	44.58	46.81	48.77	50.66	52.59	54.71	57.26	60.93	64.08

\+ 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

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(2) Derived from station's available digital record: 1948-2001
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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	.3	.0	#	0
Feb	1.1	.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	.0	.0	#	0
Ann	1.4	.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	3.0	1992	19	3.0	1992	3	2000	25	#+	2000
Feb	9.0	1973	10	15.5	1973	16	1973	11	1	1973
Mar	.5	1987	12	.5	1987	4	1980	3	#	1980
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	.5	1971	4	.5	1971	1	1971	4	#+	2000
Ann	9.0	Feb 1973	10	15.5	Feb 1973	16	Feb 1973	11	1	Feb 1973

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.1	.1	@	.0	.0
Feb	.3	.2	.1	.1	.0
Mar	@	.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	@	.0	.0	.0	.0
Ann	.4	.3	.1	.1	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.0	.0	.0
Feb	.2	.1	.1	@
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	.0
Ann	.3	.1	.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

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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	5/02	4/26	4/23	4/19	4/16	4/13	4/10	4/06	4/01
32	4/25	4/19	4/15	4/11	4/07	4/04	3/31	3/27	3/21
28	4/11	4/05	4/01	3/28	3/25	3/21	3/18	3/13	3/07
24	3/27	3/19	3/14	3/10	3/06	3/01	2/25	2/20	2/13
20	3/15	3/08	3/02	2/26	2/22	2/17	2/13	2/07	1/31
16	3/10	2/27	2/20	2/13	2/07	2/01	1/25	1/17	1/04

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	10/12	10/14	10/17	10/19	10/21	10/24	10/28
32	10/10	10/15	10/19	10/22	10/25	10/28	11/01	11/05	11/10
28	10/23	10/30	11/03	11/07	11/11	11/15	11/18	11/23	11/30
24	10/28	11/05	11/10	11/15	11/19	11/24	11/28	12/04	12/11
20	11/17	11/23	11/28	12/02	12/06	12/09	12/13	12/18	12/25
16	12/02	12/12	12/19	12/25	12/31	1/06	1/13	1/20	2/02

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	190	186	183	179	176	171	165
32	226	217	211	205	200	195	190	183	174
28	256	247	241	235	230	225	219	213	204
24	285	276	269	263	258	253	247	240	231
20	313	304	297	292	286	281	275	269	259
16	>365	>365	344	332	323	315	307	298	286

***** 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	639	475	308	115	19	0	0	0	3	128	329	558	2574
60	495	344	185	42	3	0	0	0	0	59	207	415	1750
57	414	270	128	19	0	0	0	0	0	33	149	333	1346
55	363	224	97	9	0	0	0	0	0	21	116	283	1113
50	253	133	39	1	0	0	0	0	0	6	52	179	663
32	30	3	0	0	0	0	0	0	0	0	0	9	42

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	422	453	729	919	1196	1361	1512	1466	1261	970	675	475	11439
55	42	30	113	238	483	671	799	753	571	278	100	36	4114
57	31	19	82	187	421	611	737	691	511	228	74	24	3616
60	19	10	46	121	331	521	644	598	421	162	42	13	2928
65	0	0	14	44	193	371	489	443	274	75	14	1	1918
70	0	0	2	9	89	228	334	288	140	25	2	0	1117

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	213	279	490	684	953	1124	1264	1217	1020	721	442	254	213	492	982	1666	2619	3743	5007	6224	7244	7965	8407	8661
45	123	174	345	534	798	974	1109	1062	870	567	306	159	123	297	642	1176	1974	2948	4057	5119	5989	6556	6862	7021
50	58	93	220	387	643	824	954	907	720	416	193	84	58	151	371	758	1401	2225	3179	4086	4806	5222	5415	5499
55	27	45	121	252	488	674	799	752	570	275	105	40	27	72	193	445	933	1607	2406	3158	3728	4003	4108	4148
60	2	15	55	143	338	524	644	597	421	156	49	16	2	17	72	215	553	1077	1721	2318	2739	2895	2944	2960
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	137	191	323	451	638	767	863	836	698	475	293	168	137	328	651	1102	1740	2507	3370	4206	4904	5379	5672	5840

(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:
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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