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: CAESARS HEAD, SC **COOP ID: 381256**

Climate Division: SC 1 **NWS Call Sign:** **Elevation: 3,200 Feet** **Lat: 35˚05N** **Lon: 82˚37W**

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	43.8	27.6	35.7	71	1975	31	48.1	1974	-19	1985	21	23.3	1977	909	0	.0	.0	10.5	3.2	20.9	.6
Feb	47.3	29.5	38.4	73+	1996	27	45.1	1990	-2	1970	4	30.8	1978	745	0	.0	.0	13.2	1.9	16.7	.1
Mar	55.2	36.2	45.7	79+	2000	11	51.9	1997	4	1996	9	37.4	1971	599	0	.0	.0	23.4	.2	10.7	.0
Apr	63.9	44.1	54.0	86	1986	28	58.6	1986	20	1982	7	49.8	1983	335	4	.0	.0	29.0	.0	3.1	.0
May	70.5	52.6	61.6	89	1983	11	66.1	2000	28	2001	23	57.5	1992	147	40	.0	.0	30.9	.0	.1	.0
Jun	75.9	59.8	67.9	90	2000	11	71.9	1981	40	1977	7	62.6	1974	41	126	.0	@	30.0	.0	.0	.0
Jul	78.8	63.7	71.3	97+	1977	8	76.9	1993	50	1974	1	67.5	1984	12	206	.0	.6	31.0	.0	.0	.0
Aug	77.7	62.3	70.0	99	1983	21	74.5	1983	45	1986	29	66.4	1992	18	172	.0	.4	31.0	.0	.0	.0
Sep	72.8	57.2	65.0	98	2000	14	70.6	1998	34	2001	27	62.1	1974	69	69	.0	.1	30.0	.0	.0	.0
Oct	63.9	46.9	55.4	79+	2001	25	61.4	1984	24	1972	21	50.9	1976	305	9	.0	.0	30.1	.0	1.5	.0
Nov	55.0	39.0	47.0	79	1973	28	55.5	1985	7+	1976	30	40.7	1976	540	0	.0	.0	21.9	.1	8.8	.0
Dec	46.6	31.1	38.9	70+	1991	2	47.0	1984	-5+	1983	25	31.3	2000	810	0	.0	.0	12.3	2.2	17.6	.2
Ann	62.6	45.8	54.2	99	Aug 1983	21	76.9	Jul 1993	-19	Jan 1985	21	23.3	Jan 1977	4530	626	.0	1.1	293.3	7.6	79.4	.9

\+ 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: 1967-2001

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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	6.55	6.26	3.74	1979	21	14.57	1979	.74	1981
Feb	5.65	5.72	4.58	1973	2	9.50	1982	.78	1978
Mar	7.52	6.49	4.40	1975	14	17.77	1975	.99	1985
Apr	5.52	5.32	3.13	1992	21	11.42	1979	1.25	1986
May	6.73	6.60	4.42	1973	28	14.04	1976	1.53	2000
Jun	6.58	7.00	3.60	1976	20	15.98	1989	.39	1990
Jul	6.46	6.18	3.34	1997	30	12.47	1975	1.54	1977
Aug	5.85	4.91	4.09	1995	27	14.61	1995	.61	1997
Sep	6.11	4.60	7.00	1977	8	15.58	1977	.05	1984
Oct	5.63	6.00	5.66	1968	19	13.88	1990	.00	2000
Nov	6.76	6.28	5.75	1986	26	13.88	1992	1.31	1981
Dec	5.95	5.32	4.58	1973	26	15.99	1973	1.25	1980
Ann	75.31	73.33	7.00	Sep 1977	8	17.77	Mar 1975	.00	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.6	8.1	4.2	2.4
Feb	8.5	7.2	4.0	2.1
Mar	10.4	8.3	4.5	2.5
Apr	9.1	7.2	3.8	1.9
May	11.3	8.9	4.1	2.2
Jun	12.3	9.0	3.9	2.0
Jul	13.8	10.0	4.4	2.0
Aug	12.1	8.6	3.8	1.7
Sep	10.0	8.0	4.0	1.9
Oct	7.1	5.5	3.4	2.2
Nov	9.5	7.3	4.1	2.4
Dec	9.5	7.8	4.0	2.1
Ann	123.2	95.9	48.2	25.4

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	2.05	2.67	3.59	4.39	5.15	5.95	6.82	7.84	9.16	11.22	13.12
Feb	1.65	2.19	3.00	3.70	4.38	5.09	5.87	6.79	7.99	9.86	11.59
Mar	2.16	2.87	3.95	4.88	5.79	6.75	7.80	9.04	10.64	13.16	15.51
Apr	1.67	2.19	2.98	3.65	4.31	4.99	5.74	6.62	7.76	9.54	11.19
May	1.91	2.55	3.51	4.35	5.17	6.03	6.97	8.09	9.54	11.82	13.93
Jun	1.22	1.80	2.77	3.66	4.57	5.55	6.67	8.02	9.82	12.71	15.46
Jul	2.25	2.86	3.75	4.50	5.21	5.95	6.75	7.68	8.88	10.73	12.43
Aug	1.34	1.89	2.75	3.51	4.28	5.10	6.01	7.10	8.53	10.81	12.95
Sep	.84	1.34	2.21	3.06	3.95	4.93	6.07	7.46	9.34	12.42	15.39
Oct	.70	1.41	2.36	3.17	3.97	4.83	5.79	6.94	8.46	10.88	13.18
Nov	2.21	2.85	3.80	4.60	5.37	6.17	7.05	8.07	9.38	11.43	13.32
Dec	1.72	2.29	3.14	3.87	4.59	5.34	6.17	7.15	8.41	10.39	12.23
Ann	51.06	55.67	61.62	66.17	70.23	74.18	78.27	82.81	88.34	96.41	103.42

\+ 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: 1967-2001
(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	1.9	.0	#	0
Feb	1.5	.0	#	0
Mar	.8	.0	#	0
Apr	.1	.0	#	0
May	.1	.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	.7	.0	#	0
Ann	5.2	.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	9.0	1996	8	11.0	1982	12	1996	12	3	1996
Feb	11.0	1979	18	16.0	1979	4	1997	14	#+	1999
Mar	5.5	1999	27	9.5	1971	14	1993	15	2	1993
Apr	1.5	1988	12	1.5	1988	2	1989	8	#+	1999
May	1.5	1992	7	1.5	1992	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	3.0	1975	23	3.0	1975	3+	2000	20	#+	2000
Dec	4.8	1989	10	6.3	1989	5+	2000	19	1+	2000
Ann	11.0	Feb 1979	18	16.0	Feb 1979	14	Mar 1993	15	3	Jan 1996

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.6	.6	.4	.3	.0
Feb	.4	.3	.2	.1	@
Mar	.4	.3	.2	.1	.0
Apr	.1	@	.0	.0	.0
May	@	@	.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
Dec	.3	.2	.2	.0	.0
Ann	1.8	1.4	1.0	.5	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	1.4	1.0	.6	.2
Feb	.3	.1	.0	.0
Mar	.4	.3	.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
Dec	.4	.2	.1	.0
Ann	2.5	1.6	.8	.2

+ 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	5/13	5/07	5/03	4/29	4/26	4/23	4/19	4/15	4/10
32	4/28	4/22	4/18	4/15	4/12	4/08	4/05	4/01	3/26
28	4/17	4/11	4/07	4/04	3/31	3/28	3/24	3/20	3/14
24	4/12	4/04	3/30	3/25	3/20	3/16	3/11	3/05	2/25
20	3/29	3/21	3/15	3/09	3/04	2/28	2/22	2/16	2/08
16	3/17	3/08	3/01	2/23	2/18	2/13	2/07	2/01	1/22

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	10/03	10/07	10/10	10/13	10/16	10/18	10/21	10/24	10/29
32	10/14	10/19	10/23	10/26	10/28	10/31	11/03	11/07	11/12
28	10/20	10/27	11/01	11/05	11/09	11/13	11/18	11/23	11/30
24	11/02	11/09	11/13	11/17	11/21	11/25	11/29	12/04	12/11
20	11/12	11/21	11/28	12/03	12/09	12/14	12/20	12/26	1/04
16	11/25	12/03	12/09	12/14	12/18	12/23	12/28	1/03	1/11

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	194	187	181	176	172	167	163	157	149
32	223	215	209	204	199	194	189	184	175
28	249	240	233	228	222	217	212	205	196
24	275	265	257	251	245	239	233	226	216
20	313	301	292	285	278	272	264	256	244
16	334	321	314	307	301	295	289	282	271

***** 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	909	745	599	335	147	41	12	18	69	305	540	810	4530
60	755	605	450	204	62	9	0	2	18	178	398	655	3336
57	671	521	365	139	30	2	0	0	6	119	318	566	2737
55	613	466	312	104	17	1	0	0	2	88	268	509	2380
50	472	336	196	41	2	0	0	0	0	34	163	369	1613
32	121	37	9	0	0	0	0	0	0	0	5	53	225

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	234	215	433	659	916	1075	1218	1178	990	727	456	266	8367
55	13	1	23	73	220	385	505	465	303	101	28	9	2126
57	10	0	15	48	171	327	443	403	246	71	18	4	1756
60	1	0	7	22	110	244	350	311	169	37	9	0	1260
65	0	0	0	4	40	126	206	172	69	9	0	0	626
70	0	0	0	0	9	48	95	74	17	0	0	0	243

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	68	106	250	458	689	858	992	946	756	480	239	100	68	174	424	882	1571	2429	3421	4367	5123	5603	5842	5942
45	25	48	150	318	535	708	837	791	606	330	137	47	25	73	223	541	1076	1784	2621	3412	4018	4348	4485	4532
50	2	19	75	196	380	558	682	636	456	199	64	17	2	21	96	292	672	1230	1912	2548	3004	3203	3267	3284
55	0	1	33	101	240	409	527	481	314	97	16	0	0	1	34	135	375	784	1311	1792	2106	2203	2219	2219
60	0	0	2	43	116	264	373	327	178	32	1	0	0	0	2	45	161	425	798	1125	1303	1335	1336	1336
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	30	52	137	264	407	560	676	636	464	246	109	42	30	82	219	483	890	1450	2126	2762	3226	3472	3581	3623

(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