

Climatology of the United States

No. 20

1971-2000

Station: CHERAW, SC

COOP ID: 381588

Climate Division: SC 4

NWS Call Sign:

Elevation: 140 Feet Lat: 34°42N Lon: 79°53W

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	52.6	30.1	41.4	80+	1952	3	53.4	1974	0+	1985	22	31.6	1977	735	0	.0	.0	19.4	.9	18.9	.1
Feb	56.9	31.9	44.4	86	1930	25	51.5	1990	0	1936	1	36.8	1978	576	0	.0	.0	20.0	.4	15.4	.0
Mar	65.1	39.4	52.3	92	1935	21	58.4	1976	9	1980	4	47.6	1971	401	5	.0	@	28.6	.1	7.9	.0
Apr	74.1	47.3	60.7	95+	1963	23	64.6	1977	23	1964	1	55.5	1983	158	29	.0	.8	29.7	.0	1.1	.0
May	80.7	56.8	68.8	103	1941	29	72.9	1975	33+	1963	3	64.7	1997	31	147	.0	3.0	31.0	.0	.0	.0
Jun	86.9	65.6	76.3	106+	1981	23	81.1	1981	44	1966	2	72.1	1979	1	337	.5	11.8	30.0	.0	.0	.0
Jul	89.9	70.0	80.0	108	1952	23	84.3	1986	52	1963	11	77.2	1984	0	464	1.5	18.7	31.0	.0	.0	.0
Aug	87.9	68.5	78.2	106+	1983	24	81.5	1999	49	1965	30	75.5	1981	0	410	.8	13.7	31.0	.0	.0	.0
Sep	82.8	61.9	72.4	103+	1954	8	76.9	1980	40+	1967	30	69.4	1984	8	229	.0	4.7	30.0	.0	.0	.0
Oct	73.7	48.4	61.1	102+	1954	7	67.0	1984	23	1976	29	55.3	1988	179	55	.0	.2	30.9	.0	.9	.0
Nov	64.9	39.0	52.0	90	1961	3	60.7	1985	11	1950	26	45.2	1976	397	6	.0	.0	28.0	.0	8.7	.0
Dec	55.8	32.0	43.9	81+	1998	9	53.0	1971	4	1935	23	35.6	1989	654	0	.0	.0	21.6	.2	16.8	.0
Ann	72.6	49.2	61.0	108	Jul 1952	23	84.3	Jul 1986	0+	Jan 1985	22	31.6	Jan 1977	3140	1682	2.8	52.9	331.2	1.6	69.7	.1

+ 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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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: CHERAW, SC

COOP ID: 381588

Climate Division: SC 4

NWS Call Sign:

Elevation: 140 Feet

Lat: 34°42N

Lon: 79°53W

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	4.46	4.46	3.00	1973	8	7.94	2000	.79	1981	12.0	7.6	3.0	1.1	1.75	2.16	2.75	3.23	3.69	4.16	4.67	5.25	6.00	7.14	8.18
Feb	3.61	2.96	3.95	1969	17	9.03	1973	1.11	1978	9.8	6.2	2.4	1.1	.89	1.22	1.75	2.22	2.68	3.17	3.72	4.37	5.22	6.57	7.83
Mar	4.42	4.24	3.55	1983	18	9.02	1980	1.46	1985	10.7	7.2	3.0	1.1	1.55	1.97	2.57	3.08	3.57	4.07	4.61	5.25	6.06	7.32	8.47
Apr	2.92	2.79	3.52	1936	7	7.71	1978	.05	1976	7.8	4.8	2.0	.7	.32	.54	.94	1.35	1.79	2.28	2.85	3.57	4.54	6.16	7.73
May	3.45	3.30	3.43	1943	26	7.32	1976	.82	2000	10.0	6.3	2.6	.8	1.10	1.43	1.92	2.33	2.73	3.14	3.59	4.12	4.81	5.87	6.85
Jun	4.74	4.42	6.79	1979	17	11.01	1979	.60	1990	9.7	6.8	3.1	1.5	1.01	1.45	2.14	2.77	3.41	4.08	4.84	5.75	6.96	8.88	10.69
Jul	5.33	5.28	4.50	1997	24	10.33	1997	.62	1992	11.9	8.0	3.7	1.6	1.60	2.10	2.86	3.52	4.15	4.81	5.54	6.40	7.51	9.24	10.84
Aug	4.94	4.33	5.04	1931	21	9.52	1986	.38	1997	10.5	7.0	3.3	1.5	1.25	1.72	2.44	3.07	3.70	4.36	5.10	5.97	7.12	8.92	10.61
Sep	4.17	3.41	5.65	1979	5	13.11	1979	.31	1985	8.6	5.6	2.6	1.1	.58	.92	1.52	2.10	2.71	3.38	4.15	5.10	6.38	8.47	10.49
Oct	3.70	3.10	6.49	1990	11	12.16	1990	.00	2000	6.8	4.5	2.1	1.1	.40	.85	1.47	2.00	2.54	3.12	3.78	4.56	5.61	7.29	8.88
Nov	2.91	2.75	3.80	1934	29	6.56	1992	.92	1981	8.5	5.1	2.1	.8	.97	1.25	1.65	2.00	2.32	2.66	3.03	3.47	4.02	4.89	5.68
Dec	3.19	2.70	2.76	1994	23	7.39	1983	.18	1988	10.0	6.0	2.1	.7	.66	.95	1.42	1.84	2.27	2.73	3.25	3.88	4.70	6.01	7.26
Ann	47.84	47.60	6.79	Jun 1979	17	13.11	Sep 1979	.00	Oct 2000	116.3	75.1	32.0	13.1	36.45	38.71	41.58	43.73	45.63	47.46	49.33	51.39	53.87	57.43	60.49

+ 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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No. 20

1971-2000

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151 Patton Avenue
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Station: CHERAW, SC

COOP ID: 381588

Climate Division: SC 4

NWS Call Sign:

Elevation: 140 Feet

Lat: 34° 42N

Lon: 79° 53W

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	.6	.0	#	0	4.7	1988	8	4.7	1988	5	1988	8	1	1973	.3	.2	.1	.0	.0	.4	.2	.0	.0
Feb	1.8	.0	#	0	7.0	1973	10	11.5	1973	12	1973	11	2	1979	.5	.5	.3	.1	.0	.5	.4	.3	.1
Mar	.8	.0	#	0	6.8	1980	3	7.1	1980	7	1980	3	#+	1983	.3	.1	.1	.1	.0	.1	.1	.1	.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	#	1971	25	#	1971	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.3	.0	#	0	5.0	1971	4	5.0	1971	5	1971	4	#+	1989	.1	.1	.1	.1	.0	@	@	@	.0
Ann	3.5	.0	N/A	N/A	7.0	Feb 1973	10	11.5	Feb 1973	12	Feb 1973	11	2	Feb 1979	1.2	.9	.6	.3	.0	1.0	.7	.4	.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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Station: CHERAW, SC

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Climate Division: SC 4

NWS Call Sign:

Elevation: 140 Feet

Lat: 34° 42N

Lon: 79° 53W

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	4/30	4/24	4/20	4/17	4/14	4/11	4/07	4/03	3/29
32	4/15	4/10	4/05	4/02	3/30	3/26	3/23	3/19	3/13
28	4/01	3/27	3/22	3/19	3/15	3/12	3/08	3/04	2/26
24	3/14	3/08	3/04	3/01	2/25	2/22	2/18	2/14	2/08
20	3/07	2/26	2/19	2/14	2/09	2/03	1/28	1/21	1/11
16	2/24	2/15	2/08	2/02	1/27	1/20	1/12	12/28	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	10/11	10/15	10/18	10/21	10/23	10/26	10/29	11/01	11/05
32	10/16	10/23	10/27	10/31	11/03	11/07	11/11	11/15	11/21
28	11/03	11/08	11/12	11/16	11/19	11/22	11/25	11/29	12/05
24	11/11	11/19	11/25	11/30	12/05	12/09	12/15	12/20	12/29
20	11/24	12/04	12/12	12/18	12/24	12/30	1/06	1/14	1/26
16	12/18	12/28	1/05	1/12	1/19	1/27	2/05	2/22	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	192	187	183	177	169
32	244	235	229	223	218	213	207	201	192
28	270	262	257	252	248	243	238	233	225
24	308	299	293	287	282	277	271	265	256
20	>365	350	331	320	312	304	296	288	276
16	>365	>365	>365	>365	>365	346	332	319	304

* 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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Climate Division: SC 4 NWS Call Sign: Elevation: 140 Feet Lat: 34°42N Lon: 79°53W

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	735	576	401	158	31	1	0	0	8	179	397	654	3140
60	590	436	264	70	5	0	0	0	1	94	264	505	2229
57	504	358	193	37	1	0	0	0	0	58	196	418	1765
55	448	307	153	22	0	0	0	0	0	40	156	363	1489
50	322	191	74	4	0	0	0	0	0	13	78	240	922
32	48	7	0	0	0	0	0	0	0	0	0	18	73

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	336	356	627	861	1139	1326	1487	1433	1211	899	599	388	10662
55	24	11	66	193	426	636	774	720	521	226	66	19	3682
57	17	7	45	148	365	576	712	658	461	183	45	13	3230
60	10	0	22	91	276	486	619	565	372	125	23	7	2596
65	0	0	5	29	147	337	464	410	229	55	6	0	1682
70	0	0	0	5	58	199	309	256	108	18	0	0	953

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	144	201	396	624	890	1088	1242	1196	985	670	385	196	144	345	741	1365	2255	3343	4585	5781	6766	7436	7821	8017
45	75	114	268	477	735	938	1087	1041	835	515	256	105	75	189	457	934	1669	2607	3694	4735	5570	6085	6341	6446
50	35	59	160	332	580	788	932	886	685	366	153	51	35	94	254	586	1166	1954	2886	3772	4457	4823	4976	5027
55	12	21	81	211	427	638	777	731	535	228	81	27	12	33	114	325	752	1390	2167	2898	3433	3661	3742	3769
60	0	6	33	112	277	488	622	576	386	125	33	5	0	6	39	151	428	916	1538	2114	2500	2625	2658	2663
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	100	144	260	401	586	738	851	828	669	429	252	137	100	244	504	905	1491	2229	3080	3908	4577	5006	5258	5395

(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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. 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