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: CLAYTON 1 SSW, GA **COOP ID: 091982**

Climate Division: GA 3 **NWS Call Sign:** **Elevation: 1,880 Feet** **Lat: 34˚52N** **Lon: 83˚24W**

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	49.1	26.5	37.8	79	1975	29	49.0	1974	-11	1985	21	25.9	1977	843	0	.0	.0	17.7	1.0	20.8	.2
Feb	53.1	27.7	40.4	82	1945	15	47.2	1990	-2	1958	17	32.9	1978	689	0	.0	.0	20.1	.4	17.9	.0
Mar	60.6	33.9	47.3	86	1967	14	52.8	1997	3	1960	5	41.9	1971	549	0	.0	.0	28.1	.1	11.8	.0
Apr	68.8	40.6	54.7	91	1948	27	59.0	1991	12	1983	20	50.0	1983	311	2	.0	.0	29.7	.0	5.5	.0
May	75.3	49.3	62.3	94+	1953	31	67.1	1991	28+	1984	9	58.1	1997	136	53	.0	.1	31.0	.0	.6	.0
Jun	82.0	57.7	69.9	98+	1952	27	73.2	1998	36	1984	1	65.7	1972	15	161	.0	2.3	30.0	.0	.0	.0
Jul	84.9	62.0	73.5	102	1930	12	76.9	1993	45+	1933	5	70.4	1979	0	262	.0	5.8	31.0	.0	.0	.0
Aug	83.9	61.6	72.8	98+	1999	1	75.4	1988	40	1968	29	70.8	1973	0	241	.0	2.9	31.0	.0	.0	.0
Sep	78.8	56.0	67.4	97	1954	4	71.3	1998	29	1967	30	64.6	1976	32	103	.0	.8	30.0	.0	@	.0
Oct	70.3	43.9	57.1	92+	1954	5	62.6	1984	18	1962	28	51.5	1976	261	16	.0	.0	31.0	.0	3.4	.0
Nov	61.0	35.4	48.2	82+	1950	2	56.7	1985	5+	1950	26	40.4	1976	506	1	.0	.0	27.3	.0	12.1	.0
Dec	52.1	28.9	40.5	79	1956	8	48.0	1971	-4+	1983	26	33.8	2000	760	0	.0	.0	20.4	.3	19.8	@
Ann	68.3	43.6	56.0	102	Jul 1930	12	76.9	Jul 1993	-11	Jan 1985	21	25.9	Jan 1977	4102	839	.0	11.9	327.3	1.8	91.9	.2

+ 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: 1927-2001

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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	7.33	7.52	4.64	1996	27	12.63	1996	1.00	1981
Feb	6.35	6.62	5.00	1955	6	12.59	1975	1.58	1978
Mar	7.42	6.63	4.80	1979	4	17.19	1977	1.05	1985
Apr	5.12	4.51	4.01	1940	19	10.26	1979	.36	1976
May	6.79	5.53	5.76	1976	28	21.71	1976	.97	1988
Jun	5.60	4.58	6.80	1934	6	15.21	1997	.31	1990
Jul	5.33	5.10	5.33	1948	12	13.90	1989	.92	1993
Aug	6.09	5.11	7.76	1967	23	12.40	1978	1.66	1981
Sep	5.60	5.14	5.20	1929	26	13.41	1975	.43	1984
Oct	5.02	4.97	8.02	1964	4	10.37	1995	.07	2000
Nov	6.28	5.60	5.53	1948	3	14.03	1992	2.37	1990
Dec	6.43	6.40	5.03	1961	12	12.36	1973	.66	1980
Ann	73.36	71.59	8.02	Oct 1964	4	21.71	May 1976	.07	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	13.8	9.4	4.8	2.5
Feb	10.9	7.6	4.3	2.4
Mar	12.7	9.1	4.8	2.7
Apr	10.9	7.5	3.5	1.8
May	12.7	8.5	4.2	2.2
Jun	12.7	8.3	3.7	1.5
Jul	13.5	8.5	3.7	1.7
Aug	12.5	8.2	3.7	1.9
Sep	11.1	7.5	3.7	2.0
Oct	8.5	5.7	3.2	1.7
Nov	11.0	7.6	4.4	2.3
Dec	12.2	8.3	4.4	2.2
Ann	142.5	96.2	48.4	24.9

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	2.78	3.46	4.44	5.26	6.03	6.82	7.67	8.67	9.93	11.87	13.65
Feb	2.21	2.81	3.69	4.42	5.12	5.85	6.64	7.56	8.73	10.55	12.23
Mar	2.43	3.14	4.17	5.05	5.90	6.78	7.73	8.85	10.30	12.53	14.60
Apr	1.24	1.72	2.47	3.13	3.79	4.49	5.27	6.19	7.41	9.33	11.13
May	1.97	2.61	3.59	4.43	5.25	6.10	7.04	8.15	9.59	11.85	13.94
Jun	1.15	1.66	2.48	3.23	3.98	4.79	5.71	6.81	8.26	10.59	12.79
Jul	1.35	1.86	2.63	3.32	3.99	4.70	5.50	6.44	7.67	9.61	11.43
Aug	2.05	2.62	3.47	4.18	4.87	5.57	6.35	7.25	8.41	10.21	11.87
Sep	1.30	1.82	2.64	3.38	4.11	4.88	5.75	6.79	8.16	10.32	12.36
Oct	.54	.92	1.62	2.32	3.07	3.91	4.90	6.13	7.81	10.59	13.30
Nov	2.62	3.20	4.00	4.66	5.28	5.90	6.58	7.36	8.34	9.84	11.20
Dec	2.08	2.69	3.59	4.36	5.10	5.86	6.70	7.68	8.94	10.90	12.71
Ann	51.52	55.72	61.12	65.23	68.88	72.42	76.08	80.12	85.03	92.17	98.34

\+ 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: 1927-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	1.3	.0	#	0	14.0	1988	7	14.0	1988	14	1988	7	3	1977	.6	.4	.2	.1	.1	.1	.1	.0	.0
Feb	1.0	.0	#	0	7.0	1980	6	7.0	1980	10	1979	18	3	1982	.4	.3	.1	.1	.0	.0	.0	.0	.0
Mar	1.1	.0	#	0	9.0	1971	26	13.0	1971	2	1975	10	#	1975	.3	.3	.2	.1	.0	@	.0	.0	.0
Apr	#	.0	0	0	#	1973	10	#+	1973	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	.1	.0	#	0	1.5	1975	23	1.5	1975	2	2000	19	#	2000	.1	.1	.0	.0	.0	.0	.0	.0	.0
Dec	.4	.0	#	0	7.0	1971	3	7.0	1971	7	1971	3	1	2000	.2	.2	.1	@	.0	.2	.1	@	.0
Ann	3.9	.0	N/A	N/A	14.0	Jan 1988	7	14.0	Jan 1988	14	Jan 1988	7	3+	Feb 1982	1.6	1.3	.6	.3	.1	.3	.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

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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	5/22	5/17	5/13	5/10	5/07	5/03	4/30	4/26	4/21
32	5/17	5/10	5/06	5/02	4/28	4/25	4/21	4/16	4/10
28	4/28	4/22	4/18	4/15	4/11	4/08	4/05	4/01	3/26
24	4/11	4/05	3/31	3/26	3/23	3/19	3/14	3/09	3/03
20	4/04	3/25	3/17	3/11	3/05	2/27	2/20	2/13	2/02
16	3/20	3/10	3/03	2/25	2/19	2/13	2/07	1/30	1/20

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	9/24	9/29	10/02	10/05	10/07	10/10	10/13	10/16	10/20
32	10/02	10/07	10/11	10/14	10/17	10/20	10/23	10/27	11/01
28	10/13	10/18	10/23	10/26	10/29	11/02	11/05	11/09	11/15
24	10/25	11/01	11/05	11/09	11/12	11/16	11/20	11/24	11/30
20	11/07	11/14	11/19	11/23	11/27	12/01	12/05	12/10	12/17
16	11/22	12/01	12/08	12/13	12/19	12/24	12/30	1/05	1/14

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	173	166	161	157	153	149	145	140	133
32	195	187	181	176	171	166	161	155	146
28	226	217	211	205	200	195	190	184	175
24	264	254	246	240	234	228	222	215	205
20	300	288	280	273	267	260	253	245	233
16	343	323	313	305	298	291	284	275	263

***** 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)

Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	843	689	549	311	136	15	0	0	32	261	506	760	4102
60	691	549	399	177	58	2	0	0	6	146	364	605	2997
57	605	465	314	112	28	0	0	0	1	94	285	516	2420
55	547	411	261	77	16	0	0	0	0	68	236	459	2075
50	409	283	150	22	3	0	0	0	0	24	136	320	1347
32	81	21	3	0	0	0	0	0	0	0	2	33	140

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	260	256	476	681	939	1136	1285	1263	1062	778	487	296	8919
55	14	2	21	69	242	446	572	550	372	133	31	9	2461
57	10	0	13	43	192	386	510	488	313	97	20	4	2076
60	2	0	5	18	129	298	417	395	227	56	9	0	1556
65	0	0	0	2	53	161	262	241	103	16	1	0	839
70	0	0	0	0	14	61	122	102	27	2	0	0	328

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	106	147	307	493	733	915	1059	1033	836	558	289	138	106	253	560	1053	1786	2701	3760	4793	5629	6187	6476	6614
45	45	68	183	347	578	765	904	878	686	404	174	67	45	113	296	643	1221	1986	2890	3768	4454	4858	5032	5099
50	12	24	92	215	425	615	749	723	536	264	86	27	12	36	128	343	768	1383	2132	2855	3391	3655	3741	3768
55	0	1	33	110	278	465	594	568	387	142	38	3	0	1	34	144	422	887	1481	2049	2436	2578	2616	2619
60	0	0	3	44	144	317	439	413	246	60	3	0	0	0	3	47	191	508	947	1360	1606	1666	1669	1669
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	70	110	217	329	469	611	724	705	548	363	194	93	70	180	397	726	1195	1806	2530	3235	3783	4146	4340	4433

(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

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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