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: DUBLIN, GA **COOP ID: 092839**

Climate Division: GA 5 **NWS Call Sign:** **Elevation: 230 Feet** **Lat: 32˚33N** **Lon: 82˚54W**

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	57.5	35.2	46.4	85	1932	14	59.7	1974	0+	1985	22	36.0	1977	587	0	.0	.0	23.9	.3	15.3	.1
Feb	62.1	37.0	49.6	85	1989	17	55.9	1990	11+	1996	6	41.3	1978	433	0	.0	.0	24.1	.2	11.0	.0
Mar	70.3	44.1	57.2	92	1974	11	63.0	1997	14	1980	3	51.6	1996	262	19	.0	@	30.1	@	4.6	.0
Apr	78.1	49.9	64.0	98	1986	28	68.1	1981	28	1987	1	59.8	1993	94	65	.0	1.4	29.9	.0	.5	.0
May	85.5	58.8	72.2	102	1953	31	76.0	1998	38+	1971	4	67.8	1992	14	236	.0	8.9	31.0	.0	.0	.0
Jun	91.3	66.9	79.1	108	1954	28	83.6	1981	45+	1984	1	74.8	1997	0	424	1.8	20.3	30.0	.0	.0	.0
Jul	94.0	70.7	82.4	109	1980	14	86.6	1986	54	1967	15	79.4	1975	0	538	4.6	26.1	31.0	.0	.0	.0
Aug	92.4	69.6	81.0	107	1999	2	84.9	1980	55+	1952	28	77.9	1981	0	495	2.2	23.2	31.0	.0	.0	.0
Sep	87.4	64.2	75.8	104+	1931	19	81.1	1980	33	1967	30	72.7	2000	1	326	.3	13.0	30.0	.0	.0	.0
Oct	78.4	52.2	65.3	101	1954	5	71.8	1984	25	1952	30	58.9	1987	95	105	.0	1.6	31.0	.0	.4	.0
Nov	69.2	43.3	56.3	90+	1998	1	66.7	1998	11	1950	25	48.1	1976	295	33	.0	@	29.5	.0	6.7	.0
Dec	60.1	36.6	48.4	83+	1978	5	57.1	1971	5	1983	25	39.2	2000	526	9	.0	.0	25.6	.1	13.5	.0
Ann	77.2	52.4	64.8	109	Jul 1980	14	86.6	Jul 1986	0+	Jan 1985	22	36.0	Jan 1977	2307	2250	8.9	94.5	347.1	.6	52.0	.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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1930-2001

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Issue Date: February 2004

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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	5.12	4.74	7.15	1943	19	11.24	1978	1.24	1981
Feb	4.35	3.80	5.57	1973	2	9.54	1979	.60	2000
Mar	4.83	4.18	4.59	1966	4	10.41	1980	1.38	1985
Apr	3.12	3.30	3.70	1938	9	9.40	1991	.46	2000
May	2.86	2.84	3.81	1948	13	5.72	1975	.42	2000
Jun	4.34	3.97	4.84	1933	12	9.76	1987	.20	1990
Jul	4.56	3.96	3.60	1955	30	10.67	1991	.55	2000
Aug	4.65	4.24	4.80	1995	26	9.99	1977	1.00	1975
Sep	3.64	3.64	4.61	1955	14	8.45	2000	.04	1981
Oct	2.71	2.18	4.62	1966	10	9.00	1990	.00+	2000
Nov	3.50	3.09	4.09	1983	24	9.29	1983	.18	1998
Dec	3.73	3.30	4.83	1941	24	7.90	1997	1.00	1980
Ann	47.41	44.93	7.15	Jan 1943	19	11.24	Jan 1978	.00+	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.1	8.1	3.6	1.6
Feb	7.5	6.1	2.9	1.5
Mar	8.6	7.0	3.5	1.7
Apr	6.2	5.0	2.0	.9
May	7.0	5.2	2.1	.6
Jun	8.8	7.5	3.3	1.2
Jul	9.5	7.8	3.5	1.4
Aug	8.9	7.0	3.0	1.4
Sep	7.3	5.8	2.3	1.2
Oct	4.6	3.9	1.6	.8
Nov	7.0	5.2	2.5	1.0
Dec	8.9	6.2	2.6	1.1
Ann	94.4	74.8	32.9	14.4

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	1.81	2.29	2.99	3.58	4.14	4.72	5.34	6.08	7.01	8.45	9.78
Feb	1.21	1.63	2.25	2.80	3.33	3.89	4.51	5.24	6.18	7.67	9.06
Mar	1.48	1.94	2.63	3.21	3.78	4.38	5.03	5.79	6.78	8.32	9.75
Apr	.58	.86	1.32	1.74	2.17	2.64	3.16	3.80	4.65	6.01	7.30
May	.74	1.01	1.43	1.79	2.15	2.53	2.95	3.46	4.11	5.14	6.10
Jun	.99	1.39	2.03	2.60	3.17	3.77	4.45	5.26	6.33	8.03	9.63
Jul	1.07	1.49	2.16	2.76	3.35	3.98	4.69	5.53	6.64	8.39	10.04
Aug	1.33	1.77	2.43	3.01	3.58	4.17	4.82	5.59	6.59	8.16	9.62
Sep	.32	.57	1.06	1.56	2.12	2.75	3.49	4.43	5.72	7.87	9.99
Oct	.00	.08	.40	.77	1.21	1.74	2.40	3.26	4.48	6.58	8.70
Nov	.55	.85	1.36	1.84	2.34	2.88	3.51	4.27	5.29	6.95	8.53
Dec	.98	1.34	1.88	2.35	2.82	3.31	3.86	4.51	5.35	6.68	7.92
Ann	35.15	37.56	40.63	42.94	44.99	46.96	48.99	51.22	53.92	57.81	61.17

\+ 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

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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	.2	.0	0	0
Feb	#	.0	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	0
Ann	.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	1.5	1982	13	1.8	1982	0	0	0	0	0
Feb	#	1984	28	#	1984	0	0	0	0	0
Mar	#	1983	24	#+	1983	0	0	0	0	0
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	.0	0	0	.0	0	0	0	0	0	0
Ann	1.5	Jan 1982	13	1.8	Jan 1982	0	0	0	0	0

Mean Number of Days (1)

Snow Fall >= Thresholds

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

Snow Depth >= Thresholds

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

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	4/22	4/17	4/13	4/10	4/07	4/04	4/01	3/28	3/22
32	4/06	4/01	3/27	3/24	3/20	3/17	3/13	3/09	3/03
28	3/26	3/17	3/11	3/06	3/01	2/24	2/19	2/13	2/04
24	3/08	2/28	2/22	2/17	2/13	2/08	2/03	1/28	1/20
20	3/04	2/23	2/16	2/10	2/04	1/28	1/20	1/05	0/00
16	2/14	2/04	1/27	1/20	1/11	12/26	0/00	0/00	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	10/10	10/15	10/19	10/23	10/26	10/29	11/02	11/06	11/12
32	10/25	10/30	11/03	11/07	11/10	11/13	11/17	11/21	11/27
28	11/03	11/11	11/18	11/23	11/28	12/03	12/08	12/14	12/23
24	11/18	11/28	12/05	12/12	12/17	12/23	12/29	1/06	1/16
20	11/30	12/13	12/23	1/01	1/09	1/18	1/30	2/19	0/00
16	12/21	1/01	1/10	1/19	1/30	0/00	0/00	0/00	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	226	218	212	206	202	197	191	185	177
32	259	251	245	239	234	229	224	218	209
28	310	297	287	279	271	263	255	246	232
24	>365	326	316	308	301	295	288	280	270
20	>365	>365	>365	>365	329	318	310	301	291
16	>365	>365	>365	>365	>365	>365	>365	334	320

***** 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	587	433	262	94	14	0	0	0	1	95	295	526	2307
60	445	302	149	32	2	0	0	0	0	40	190	384	1544
57	366	229	98	13	0	0	0	0	0	21	140	307	1174
55	317	186	70	7	0	0	0	0	0	13	110	261	964
50	216	102	24	1	0	0	0	0	0	3	53	167	566
32	20	1	0	0	0	0	0	0	0	0	0	9	30

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	465	492	780	960	1245	1414	1561	1518	1314	1033	729	515	12026
55	50	34	138	277	532	724	848	805	624	332	149	54	4567
57	36	21	103	224	470	664	786	743	564	278	118	39	4046
60	22	10	62	153	379	574	693	650	474	204	79	22	3322
65	0	0	19	65	236	424	538	495	326	105	33	9	2250
70	0	0	4	17	122	277	383	340	187	40	12	0	1382

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	237	299	528	715	988	1159	1299	1257	1061	766	478	286	237	536	1064	1779	2767	3926	5225	6482	7543	8309	8787	9073
45	138	193	380	565	833	1009	1144	1102	911	611	340	173	138	331	711	1276	2109	3118	4262	5364	6275	6886	7226	7399
50	73	109	247	416	678	859	989	947	761	458	219	99	73	182	429	845	1523	2382	3371	4318	5079	5537	5756	5855
55	31	50	144	277	523	709	834	792	611	316	127	46	31	81	225	502	1025	1734	2568	3360	3971	4287	4414	4460
60	8	18	67	158	371	559	679	637	461	188	62	22	8	26	93	251	622	1181	1860	2497	2958	3146	3208	3230
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	156	205	346	466	652	771	861	838	707	511	320	192	156	361	707	1173	1825	2596	3457	4295	5002	5513	5833	6025

(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