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: ELIZABETH CITY, NC **COOP ID: 312719**

Climate Division: NC 8 **NWS Call Sign: ECG** **Elevation: 8 Feet** **Lat: 36˚19N** **Lon: 76˚12W**

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	52.5	32.3	42.4	80+	1950	31	52.1	1974	-2	1985	21	31.9	1977	700	0	.0	.0	18.2	.9	16.5	@
Feb	55.4	34.0	44.7	82+	1997	27	52.6	1990	5	1996	5	33.8	1978	570	0	.0	.0	18.7	.6	13.4	.0
Mar	63.2	40.4	51.8	92	1945	17	56.7	1976	14	1980	2	47.1	1996	410	1	.0	.1	28.2	.1	6.7	.0
Apr	72.1	48.1	60.1	95+	1985	23	65.7	1994	26+	1985	10	55.7	1975	173	26	.0	.5	29.8	.0	.9	.0
May	78.8	57.0	67.9	101	1941	23	72.0	1991	32	1997	10	63.5	1997	34	125	.0	2.0	31.0	.0	@	.0
Jun	85.6	65.7	75.7	103	1952	26	79.6	1981	43+	1997	5	71.6	1979	1	319	@	8.0	30.0	.0	.0	.0
Jul	89.2	70.3	79.8	107	1942	18	82.7	1993	49	1977	24	77.0	2000	0	457	.2	14.6	31.0	.0	.0	.0
Aug	87.7	68.8	78.3	103	1980	1	80.9+	1988	47	1965	30	75.2	1996	0	411	.1	10.8	31.0	.0	.0	.0
Sep	83.1	63.4	73.3	98+	1985	8	77.2	1980	40	1943	27	70.5	1984	5	252	.0	3.6	30.0	.0	.0	.0
Oct	73.6	51.6	62.6	95+	1954	6	68.4	1984	24+	1965	30	54.3	1987	151	75	.0	.2	31.0	.0	.5	.0
Nov	65.0	43.1	54.1	87	1950	1	62.8	1985	19+	1950	26	46.7	1976	342	13	.0	.0	28.3	.0	4.9	.0
Dec	56.2	35.6	45.9	82	1978	9	53.4	1971	5	1989	25	35.5	1989	594	1	.0	.0	22.8	.4	13.3	.0
Ann	71.9	50.9	61.4	107	Jul 1942	18	82.7	Jul 1993	-2	Jan 1985	21	31.9	Jan 1977	2980	1680	.3	39.8	330.0	2.0	56.2	@

\+ 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: 1934-2001

(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	4.40	3.81	3.34	1936	3	10.77	1987	1.24	1981
Feb	3.28	3.13	3.79	1960	1	7.05	1983	1.29	1978
Mar	4.03	3.67	3.70	1994	2	8.23	1978	1.35	1986
Apr	3.07	2.82	4.65	1991	20	6.34	1991	.67	1985
May	4.14	3.77	3.52	2000	28	10.41	2000	.55	1986
Jun	4.31	4.09	6.37	1945	26	8.78	1973	1.20	1984
Jul	5.59	5.26	4.61	1956	10	13.99	1996	.84	1983
Aug	5.47	4.84	5.90	1953	14	14.55	1981	1.42	1975
Sep	4.55	3.52	6.50	1979	5	17.45	1979	.14	1978
Oct	3.32	2.49	6.70	1968	20	9.30	1971	.00	2000
Nov	2.97	2.85	4.05	1969	2	5.76	1978	.97	1974
Dec	3.07	3.23	2.40	1945	5	5.92	1973	.49	1985
Ann	48.20	48.01	6.70	Oct 1968	20	17.45	Sep 1979	.00	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	13.2	7.7	3.1	1.1
Feb	10.3	6.2	2.5	.8
Mar	11.3	7.6	2.7	1.0
Apr	9.1	5.8	2.0	.7
May	11.1	7.0	2.9	1.1
Jun	10.2	6.6	2.9	1.1
Jul	12.1	7.9	3.5	1.7
Aug	10.1	6.9	3.5	2.0
Sep	8.5	5.8	2.6	1.3
Oct	7.4	4.9	2.3	1.0
Nov	8.6	5.4	2.1	.8
Dec	11.0	6.4	2.2	.6
Ann	122.9	78.2	32.3	13.2

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	1.73	2.14	2.72	3.20	3.65	4.11	4.61	5.18	5.91	7.03	8.05
Feb	1.20	1.51	1.95	2.32	2.67	3.03	3.43	3.88	4.46	5.36	6.18
Mar	1.38	1.76	2.31	2.79	3.24	3.70	4.21	4.80	5.56	6.74	7.83
Apr	.93	1.22	1.65	2.03	2.40	2.77	3.19	3.68	4.32	5.31	6.23
May	1.14	1.53	2.13	2.65	3.16	3.70	4.29	4.99	5.90	7.33	8.66
Jun	1.44	1.85	2.44	2.95	3.44	3.94	4.49	5.13	5.96	7.24	8.42
Jul	1.25	1.77	2.59	3.33	4.06	4.85	5.73	6.78	8.17	10.37	12.45
Aug	1.75	2.27	3.04	3.69	4.33	4.98	5.70	6.54	7.63	9.32	10.88
Sep	.54	.89	1.53	2.17	2.84	3.59	4.47	5.56	7.04	9.48	11.85
Oct	.46	.89	1.45	1.92	2.39	2.88	3.43	4.08	4.94	6.31	7.60
Nov	1.05	1.33	1.73	2.08	2.40	2.74	3.10	3.53	4.07	4.91	5.69
Dec	.87	1.16	1.60	1.98	2.36	2.75	3.18	3.69	4.36	5.40	6.37
Ann	35.08	37.64	40.91	43.39	45.58	47.70	49.88	52.28	55.19	59.41	63.04

\+ 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: 1934-2001
(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	.3	.0	#	0	2.3	2000	25	2.3	2000	2	2000	25	#	2000	.2	.2	.0	.0	.0	.1	.0	.0	.0
Feb	#	.0	0	0	#	1978	28	#+	1978	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1978	1	#	1978	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.3	.0	N/A	N/A	2.3	Jan 2000	25	2.3	Jan 2000	2	Jan 2000	25	#	Jan 2000	.2	.2	.0	.0	.0	.1	.0	.0	.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	4/26	4/21	4/18	4/15	4/12	4/09	4/06	4/02	3/29
32	4/19	4/13	4/09	4/05	4/02	3/29	3/26	3/22	3/16
28	4/01	3/26	3/21	3/18	3/14	3/11	3/07	3/03	2/25
24	3/11	3/05	2/28	2/24	2/20	2/17	2/13	2/08	2/02
20	3/06	2/24	2/18	2/12	2/07	2/01	1/26	1/18	1/03
16	2/14	2/06	2/01	1/26	1/21	1/13	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	10/12	10/18	10/22	10/26	10/29	11/02	11/05	11/09	11/15
32	10/25	10/30	11/03	11/06	11/09	11/12	11/15	11/19	11/24
28	11/07	11/14	11/19	11/23	11/27	12/01	12/05	12/10	12/17
24	11/24	12/01	12/07	12/11	12/16	12/20	12/24	12/30	1/06
20	12/11	12/19	12/25	12/29	1/03	1/08	1/13	1/20	2/01
16	12/27	1/04	1/10	1/15	1/22	1/31	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	223	215	209	204	200	195	190	184	176
32	241	234	229	225	221	217	213	208	201
28	278	271	266	261	257	253	249	244	236
24	323	314	308	302	297	292	287	281	272
20	>365	361	344	335	328	321	314	306	296
16	>365	>365	>365	>365	>365	363	350	339	328

***** 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	700	570	410	173	34	1	0	0	5	151	342	594	2980
60	554	436	267	80	6	0	0	0	1	77	218	450	2089
57	467	358	191	43	2	0	0	0	0	46	158	367	1632
55	412	309	148	26	0	0	0	0	0	31	124	315	1365
50	286	201	68	5	0	0	0	0	0	10	58	205	833
32	31	13	0	0	0	0	0	0	0	0	0	13	57

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	354	367	614	843	1114	1308	1480	1434	1238	947	661	443	10803
55	21	19	49	178	401	618	767	721	548	265	95	32	3714
57	15	13	30	135	341	558	705	659	488	218	69	22	3253
60	9	7	13	83	252	468	612	566	398	156	39	12	2615
65	0	0	1	26	125	319	457	411	252	75	13	1	1680
70	0	0	0	5	42	180	302	256	122	27	2	0	936

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	162	199	382	607	876	1074	1239	1192	1002	709	430	234	162	361	743	1350	2226	3300	4539	5731	6733	7442	7872	8106
45	84	115	251	461	721	924	1084	1037	852	554	295	134	84	199	450	911	1632	2556	3640	4677	5529	6083	6378	6512
50	39	60	148	319	566	774	929	882	702	400	185	68	39	99	247	566	1132	1906	2835	3717	4419	4819	5004	5072
55	13	20	75	194	413	624	774	727	552	262	100	33	13	33	108	302	715	1339	2113	2840	3392	3654	3754	3787
60	0	5	32	105	265	474	619	572	402	143	44	7	0	5	37	142	407	881	1500	2072	2474	2617	2661	2668
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	97	123	233	377	569	743	867	838	692	441	260	135	97	220	453	830	1399	2142	3009	3847	4539	4980	5240	5375

(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