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: CLINTON 2 NE, NC **COOP ID: 311881**

Climate Division: NC 6 **NWS Call Sign:** **Elevation: 158 Feet** **Lat: 35˚01N** **Lon: 78˚17W**

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	52.3	31.7	42.0	78+	1990	26	54.6	1974	-2	1985	21	32.2	1977	713	0	.0	.0	18.6	.9	17.6	.1
Feb	56.1	33.9	45.0	83	1997	28	52.5	1990	3	1996	5	35.6	1978	561	0	.0	.0	19.5	.5	14.1	.0
Mar	64.0	41.5	52.8	89+	1985	31	57.8	1976	8	1980	4	47.5	1996	385	6	.0	.0	28.0	.1	6.5	.0
Apr	73.1	48.4	60.8	94+	1990	28	64.2	1977	26	1985	10	57.2	1997	150	23	.0	.7	29.7	.0	.9	.0
May	80.3	57.6	69.0	96+	1996	20	73.3	1991	35+	1989	8	64.9	1992	25	149	.0	3.0	31.0	.0	.0	.0
Jun	86.6	65.4	76.0	100+	1998	28	79.3	1998	42	1972	12	71.2	1979	1	331	.1	10.5	30.0	.0	.0	.0
Jul	89.9	69.9	79.9	102	1977	9	83.6	1993	52+	1979	8	77.1	1975	0	462	.7	17.5	31.0	.0	.0	.0
Aug	88.2	68.3	78.3	104	1983	22	81.7	1987	46	1976	31	75.3	1981	0	411	.4	14.0	31.0	.0	.0	.0
Sep	83.3	62.5	72.9	100	1983	12	76.7	1980	40+	1990	25	69.4	1984	7	244	@	4.9	30.0	.0	.0	.0
Oct	74.0	49.3	61.7	96	1997	8	68.1	1984	24	1976	29	55.9	1988	165	61	.0	.3	31.0	.0	.9	.0
Nov	64.9	41.1	53.0	85+	1979	11	63.2	1985	18	1976	9	45.5	1976	373	13	.0	.0	28.0	.0	7.0	.0
Dec	55.5	34.0	44.8	81	1998	9	53.4	1971	5+	1989	26	34.8	1989	629	1	.0	.0	22.1	.3	15.1	.0
Ann	72.4	50.3	61.4	104	Aug 1983	22	83.6	Jul 1993	-2	Jan 1985	21	32.2	Jan 1977	3009	1701	1.2	50.9	329.9	1.8	62.1	.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: 1971-2001

(3) Derived from 1971-2000 serially complete daily data

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	4.33	4.05	3.01	1993	8	7.96	1999	1.49+	1986
Feb	3.23	2.69	3.03	1998	17	7.02	1998	1.07	1978
Mar	4.50	4.59	3.75	1998	9	9.09	1983	1.62	1981
Apr	3.16	2.98	3.65	1973	1	8.09	1978	.19	1976
May	3.68	3.54	2.25	1988	20	7.21	1979	1.37	1983
Jun	4.49	4.52	4.00	1983	8	12.87	1995	1.58	1997
Jul	6.06	5.69	5.40	1997	25	17.47	1991	2.06	1977
Aug	5.40	4.59	4.73	1992	17	16.71	1981	.89	1980
Sep	5.00	3.74	10.05	1999	16	21.63	1999	.08	1990
Oct	3.21	2.90	4.45	1999	18	8.74	1990	.16	2000
Nov	2.89	2.62	3.02	1977	6	6.49	1997	.26	1973
Dec	3.24	3.17	2.08	1982	12	6.83	1973	.80	1988
Ann	49.19	49.76	10.05	Sep 1999	16	21.63	Sep 1999	.08	Sep 1990

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.3	7.9	3.2	.8
Feb	10.1	6.1	2.2	.6
Mar	11.0	7.5	2.9	1.3
Apr	8.5	5.3	2.1	.7
May	10.5	7.0	2.2	.8
Jun	10.1	6.8	3.1	1.3
Jul	12.5	8.6	4.3	2.0
Aug	11.0	7.4	3.4	1.7
Sep	8.6	6.4	2.8	1.4
Oct	7.2	4.7	2.1	.8
Nov	8.4	4.8	1.9	.9
Dec	10.7	6.4	2.7	.6
Ann	120.9	78.9	32.9	12.9

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	1.98	2.36	2.89	3.32	3.72	4.12	4.54	5.03	5.65	6.58	7.42
Feb	.98	1.29	1.74	2.14	2.52	2.92	3.36	3.87	4.53	5.57	6.53
Mar	1.71	2.13	2.73	3.23	3.70	4.19	4.71	5.32	6.09	7.28	8.36
Apr	.53	.81	1.27	1.70	2.14	2.63	3.18	3.85	4.75	6.20	7.59
May	1.47	1.81	2.29	2.69	3.06	3.45	3.86	4.34	4.94	5.87	6.71
Jun	1.55	1.98	2.59	3.11	3.61	4.13	4.69	5.34	6.17	7.47	8.66
Jul	2.03	2.61	3.45	4.16	4.84	5.55	6.32	7.22	8.37	10.16	11.81
Aug	1.12	1.61	2.40	3.12	3.85	4.63	5.51	6.56	7.96	10.18	12.29
Sep	.38	.70	1.35	2.04	2.80	3.68	4.74	6.07	7.92	11.03	14.10
Oct	.45	.71	1.17	1.62	2.09	2.60	3.19	3.92	4.90	6.50	8.04
Nov	.77	1.04	1.46	1.83	2.19	2.57	2.99	3.49	4.14	5.16	6.11
Dec	.98	1.29	1.75	2.14	2.53	2.93	3.37	3.88	4.55	5.59	6.56
Ann	38.70	40.81	43.46	45.45	47.19	48.87	50.58	52.45	54.70	57.92	60.68

\+ 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: 1971-2001
(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	.9	.0	#	0
Feb	1.0	.0	#	0
Mar	.9	.0	#	0
Apr	#	.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
Dec	.7	.0	#	0
Ann	3.5	.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	5.5	1988	8	10.5	2000	6	1988	9	1+	2000
Feb	8.0	1973	10	8.0	1973	8	1973	10	1	1973
Mar	8.5	1980	3	9.9	1980	10	1980	3	1	1980
Apr	#	1989	11	#+	1989	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	#	1987	11	#	1987	0	0	0	0	0
Dec	10.0	1989	24	10.0	1989	10	1989	26	1	1989
Ann	10.0	Dec 1989	24	10.5	Jan 2000	10+	Dec 1989	26	1+	Jan 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.4	.3	.1	.1	.0
Feb	.5	.2	.1	@	.0
Mar	.3	.2	.1	.1	.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	.3	.2	.1	@	@
Ann	1.5	.9	.4	.2	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	1.0	.6	.2	.0
Feb	.6	.3	.1	.0
Mar	.2	.1	.1	@
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	.3	.2	.1	.1
Ann	2.1	1.2	.5	.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

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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	5/02	4/26	4/21	4/17	4/13	4/10	4/06	4/01	3/26
32	4/17	4/11	4/07	4/03	3/31	3/28	3/24	3/20	3/15
28	4/04	3/29	3/24	3/20	3/16	3/12	3/08	3/03	2/25
24	3/18	3/11	3/06	3/02	2/26	2/22	2/17	2/12	2/05
20	3/05	2/24	2/17	2/11	2/05	1/30	1/23	1/15	12/30
16	2/19	2/10	2/03	1/29	1/23	1/16	1/08	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	10/07	10/12	10/15	10/18	10/21	10/23	10/26	10/30	11/03
32	10/16	10/21	10/24	10/27	10/30	11/02	11/05	11/08	11/13
28	10/26	11/02	11/08	11/12	11/16	11/20	11/24	11/29	12/06
24	11/08	11/16	11/22	11/27	12/02	12/07	12/12	12/18	12/27
20	11/30	12/08	12/13	12/18	12/23	12/28	1/02	1/09	1/22
16	12/16	12/23	12/29	1/03	1/08	1/14	1/22	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	213	205	199	194	189	185	180	174	166
32	237	228	222	217	212	207	202	196	187
28	275	264	256	250	244	238	232	224	213
24	306	297	290	284	279	274	268	261	252
20	>365	>365	336	325	317	310	303	295	284
16	>365	>365	>365	>365	355	343	334	325	313

***** 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	713	561	385	150	25	1	0	0	7	165	373	629	3009
60	569	428	248	61	3	0	0	0	1	85	247	484	2126
57	483	350	180	29	0	0	0	0	0	51	185	399	1677
55	428	301	142	16	0	0	0	0	0	35	150	346	1418
50	304	195	68	2	0	0	0	0	0	11	77	231	888
32	41	12	0	0	0	0	0	0	0	0	0	19	72

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	352	376	644	863	1147	1320	1485	1434	1227	919	631	414	10812
55	26	21	73	189	434	630	772	721	537	241	90	28	3762
57	18	14	49	142	372	570	710	659	477	196	66	19	3292
60	11	7	24	84	282	480	617	566	388	136	38	11	2644
65	0	0	6	23	149	331	462	411	244	61	13	1	1701
70	0	0	0	3	57	191	307	257	120	20	2	0	957

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	167	219	416	632	901	1084	1240	1193	997	682	418	223	167	386	802	1434	2335	3419	4659	5852	6849	7531	7949	8172
45	93	134	287	484	746	934	1085	1038	847	528	291	130	93	227	514	998	1744	2678	3763	4801	5648	6176	6467	6597
50	46	66	177	341	591	784	930	883	697	379	181	66	46	112	289	630	1221	2005	2935	3818	4515	4894	5075	5141
55	20	31	96	218	437	634	775	728	547	245	102	32	20	51	147	365	802	1436	2211	2939	3486	3731	3833	3865
60	1	11	40	120	294	484	620	573	399	136	48	9	1	12	52	172	466	950	1570	2143	2542	2678	2726	2735
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	109	146	260	401	595	747	856	831	679	440	268	143	109	255	515	916	1511	2258	3114	3945	4624	5064	5332	5475

(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