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: ASHEBORO 2 W, NC **COOP ID: 310286**

Climate Division: NC 4 **NWS Call Sign:** **Elevation: 870 Feet** **Lat: 35˚42N** **Lon: 79˚50W**

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	48.5	30.2	39.4	79+	1949	25	48.9	1974	-8	1985	21	27.4	1977	796	0	.0	.0	15.6	1.4	18.4	.1
Feb	53.2	32.7	43.0	82	1977	26	50.6	1976	2	1996	5	33.8	1978	618	0	.0	.0	18.3	.7	14.0	.0
Mar	61.7	39.7	50.7	92	1945	17	55.1	1976	8	1980	3	45.0	1996	444	2	.0	@	27.7	.1	7.2	.0
Apr	71.0	47.0	59.0	93+	1985	20	63.3	1994	24+	1985	10	54.3	1983	196	16	.0	.4	29.6	.0	1.3	.0
May	77.4	55.6	66.5	97+	1941	29	71.6	1991	33	1989	8	63.4	1992	58	105	.0	1.1	31.0	.0	.0	.0
Jun	83.9	63.9	73.9	103	1954	27	78.3	1986	39	1996	1	70.0	1979	4	271	.0	6.2	30.0	.0	.0	.0
Jul	87.7	68.6	78.2	103	1952	28	82.6	1993	51+	1988	2	74.9	1984	0	408	.4	13.3	31.0	.0	.0	.0
Aug	85.6	67.4	76.5	105	1988	18	79.6	1988	47	1946	31	73.6	1992	0	357	.3	10.2	31.0	.0	.0	.0
Sep	79.6	61.1	70.4	100	1983	11	74.0	1980	36+	1950	26	67.8	1974	15	175	@	3.1	30.0	.0	.0	.0
Oct	70.3	49.0	59.7	96	1954	5	66.7	1984	21	1962	27	54.5	1988	202	36	.0	.2	30.9	.0	.6	.0
Nov	60.7	40.1	50.4	87	1974	2	57.8	1985	10	1950	26	43.0	1976	440	2	.0	.0	26.4	.0	6.8	.0
Dec	51.5	33.0	42.3	79+	1984	30	50.7	1984	-1	1983	25	34.3	1989	705	0	.0	.0	19.0	.6	15.3	@
Ann	69.3	49.0	59.2	105	Aug 1988	18	82.6	Jul 1993	-8	Jan 1985	21	27.4	Jan 1977	3478	1372	.7	34.5	320.5	2.8	63.6	.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: 1933-2001

(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	4.43	4.36	2.63	1962	6	8.72	1978	.81	1981
Feb	3.71	3.63	2.61	1946	10	7.09	1989	.62	1978
Mar	4.27	4.02	2.85	1952	4	8.35	1993	1.40	1985
Apr	3.49	3.70	4.04	1992	21	7.21	1987	.48	1976
May	4.19	4.34	2.74	1993	4	9.70	1975	.61	1999
Jun	3.93	3.09	5.53	1976	3	9.44	1972	.81	1986
Jul	4.12	3.55	5.03	1944	14	13.88	1975	1.21	1993
Aug	4.26	3.73	9.50	1949	16	10.94	1985	.72	1984
Sep	4.22	3.62	5.19	1979	5	11.23	1999	.04	1985
Oct	3.59	2.65	8.84	1954	15	13.70	1990	.00	2000
Nov	3.16	2.62	3.34	1963	6	9.80	1985	.57	1981
Dec	3.26	3.11	2.45	1962	4	6.27	1972	.81	1988
Ann	46.63	46.59	9.50	Aug 1949	16	13.88	Jul 1975	.00	Oct 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.5	8.0	3.4	1.2
Feb	9.9	6.3	2.6	1.1
Mar	10.7	7.4	3.4	1.0
Apr	8.7	6.2	2.3	.9
May	11.0	7.2	3.0	1.3
Jun	10.6	6.2	2.5	.9
Jul	10.8	7.4	2.8	1.1
Aug	10.2	6.9	2.7	1.1
Sep	8.9	5.6	2.8	1.3
Oct	7.4	4.7	2.2	1.1
Nov	9.1	5.5	2.4	.8
Dec	10.5	6.6	2.4	.6
Ann	119.3	78.0	32.5	12.4

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	1.42	1.84	2.46	2.99	3.50	4.03	4.61	5.29	6.16	7.52	8.78
Feb	1.06	1.42	1.95	2.41	2.86	3.33	3.85	4.46	5.25	6.50	7.66
Mar	1.60	2.00	2.57	3.05	3.50	3.97	4.47	5.05	5.79	6.93	7.98
Apr	.91	1.24	1.75	2.19	2.63	3.09	3.60	4.21	5.00	6.25	7.41
May	1.05	1.45	2.06	2.60	3.13	3.69	4.32	5.07	6.04	7.58	9.03
Jun	.95	1.32	1.89	2.40	2.91	3.44	4.04	4.76	5.69	7.17	8.56
Jul	1.07	1.46	2.06	2.59	3.11	3.65	4.26	4.98	5.91	7.39	8.77
Aug	1.36	1.77	2.37	2.88	3.37	3.88	4.44	5.10	5.94	7.25	8.47
Sep	.42	.73	1.30	1.89	2.53	3.24	4.09	5.15	6.59	9.00	11.35
Oct	.32	.73	1.32	1.85	2.39	2.97	3.63	4.44	5.52	7.26	8.93
Nov	.93	1.23	1.68	2.07	2.45	2.84	3.28	3.79	4.46	5.50	6.46
Dec	1.14	1.44	1.89	2.27	2.63	3.00	3.40	3.87	4.48	5.41	6.27
Ann	35.35	37.58	40.42	42.55	44.43	46.24	48.10	50.14	52.60	56.14	59.18

\+ 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: 1933-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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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	1.7	.0	#	0
Feb	2.2	.5	#	0
Mar	1.0	.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	.2	.0	0	0
Dec	.6	.0	#	0
Ann	5.7	.5	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	9.5	2000	25	9.5	2000	8	1988	8	2	1988
Feb	12.0	1979	18	17.0	1979	12	1979	18	2	1979
Mar	5.6	1983	24	6.5	1980	6+	1983	24	#+	1983
Apr	#	1983	18	#+	1983	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	4.6	2000	19	4.6	2000	0	0	0	0	0
Dec	5.0	1971	3	5.5	1973	5	1973	17	#+	1999
Ann	12.0	Feb 1979	18	17.0	Feb 1979	12	Feb 1979	18	2+	Jan 1988

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.7	.6	.3	.2	.0
Feb	.9	.8	.2	.1	@
Mar	.4	.3	.2	.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	.1	.1	@	.0	.0
Dec	.3	.2	.1	@	.0
Ann	2.4	2.0	.8	.4	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	1.2	.7	.4	.0
Feb	1.1	.3	.1	@
Mar	.4	.2	.1	.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	.2	.1	.1	.0
Ann	2.9	1.3	.7	@

+ 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	5/03	4/28	4/24	4/21	4/18	4/15	4/12	4/08	4/03
32	4/20	4/15	4/11	4/08	4/04	4/01	3/29	3/25	3/20
28	4/12	4/04	3/30	3/25	3/21	3/17	3/12	3/07	2/27
24	3/28	3/20	3/14	3/09	3/05	2/28	2/23	2/18	2/10
20	3/13	3/05	2/28	2/23	2/19	2/14	2/09	2/04	1/27
16	3/04	2/22	2/15	2/08	2/02	1/27	1/20	1/10	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	10/09	10/13	10/16	10/19	10/21	10/24	10/26	10/30	11/03
32	10/16	10/22	10/26	10/30	11/02	11/05	11/09	11/13	11/18
28	11/01	11/06	11/09	11/12	11/15	11/17	11/20	11/24	11/28
24	11/10	11/17	11/22	11/26	11/30	12/04	12/08	12/13	12/20
20	11/26	12/04	12/09	12/13	12/18	12/22	12/27	1/01	1/08
16	12/02	12/13	12/21	12/28	1/04	1/11	1/19	1/30	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	204	198	193	189	186	182	178	174	167
32	231	224	219	215	211	207	202	197	190
28	262	254	248	243	238	233	228	222	214
24	297	288	281	275	269	264	258	251	242
20	330	320	313	307	301	296	290	282	273
16	>365	>365	>365	342	330	321	312	303	291

***** 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	796	618	444	196	58	4	0	0	15	202	440	705	3478
60	648	480	301	93	14	0	0	0	2	106	301	556	2501
57	560	403	224	51	5	0	0	0	0	66	225	469	2003
55	502	351	180	31	2	0	0	0	0	45	181	412	1704
50	367	234	92	6	0	0	0	0	0	14	94	284	1091
32	61	18	1	0	0	0	0	0	0	0	1	30	111

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	288	324	581	810	1070	1258	1431	1380	1150	857	553	348	10050
55	16	13	47	151	358	568	718	667	460	189	43	17	3247
57	11	8	30	111	299	508	656	605	401	148	27	12	2816
60	7	2	14	63	216	418	563	512	312	95	13	6	2221
65	0	0	2	16	105	271	408	357	175	36	2	0	1372
70	0	0	0	2	36	143	257	208	69	9	0	0	724

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	126	194	392	609	851	1040	1202	1149	938	644	362	184	126	320	712	1321	2172	3212	4414	5563	6501	7145	7507	7691
45	65	111	261	462	696	890	1047	994	788	489	242	105	65	176	437	899	1595	2485	3532	4526	5314	5803	6045	6150
50	29	56	158	319	541	740	892	839	638	342	141	52	29	85	243	562	1103	1843	2735	3574	4212	4554	4695	4747
55	7	20	79	202	388	590	737	684	489	210	76	26	7	27	106	308	696	1286	2023	2707	3196	3406	3482	3508
60	0	7	34	107	247	442	582	529	342	105	26	4	0	7	41	148	395	837	1419	1948	2290	2395	2421	2425
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	72	121	240	385	557	717	834	802	631	397	216	104	72	193	433	818	1375	2092	2926	3728	4359	4756	4972	5076

(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