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: HAMLET, NC **COOP ID: 313784**

Climate Division: NC 5 **NWS Call Sign:** **Elevation: 350 Feet** **Lat: 34˚53N** **Lon: 79˚42W**

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	52.6	28.1	40.4	80	1975	31	52.3	1974	-6	1985	21	29.6	1977	763	0	.0	.0	18.6	.7	20.1	@
Feb	57.6	30.3	44.0	84+	1997	27	52.1	1990	3	1958	18	35.2	1978	589	0	.0	.0	20.6	.5	16.6	.0
Mar	66.0	37.1	51.6	94	1985	29	56.8	1997	7	1980	3	45.7	1981	421	4	.0	.1	29.1	.1	10.2	.0
Apr	74.9	44.7	59.8	95+	1985	22	64.3	1994	17	1992	4	55.1	1982	180	23	.0	1.1	29.9	.0	2.4	.0
May	81.8	54.0	67.9	100	1953	31	74.8	2000	27	1989	8	63.3	1992	49	140	.0	4.6	31.0	.0	@	.0
Jun	88.0	62.2	75.1	106	1954	27	79.7	2000	32	1983	3	70.1	1972	4	307	.7	13.2	30.0	.0	.0	.0
Jul	91.1	67.0	79.1	106	1986	19	83.1	1986	50+	1988	2	76.2	1975	0	435	1.8	20.8	31.0	.0	.0	.0
Aug	89.1	65.8	77.5	107	1983	21	80.7	1999	41	1997	24	74.1	1992	0	386	.7	16.0	31.0	.0	.0	.0
Sep	83.8	59.6	71.7	100+	1983	6	76.3	1980	34	1967	30	66.9	1981	12	213	@	6.0	30.0	.0	.0	.0
Oct	74.3	46.6	60.5	100	1954	6	67.8	1984	20	1965	30	53.3	1987	196	54	.0	.5	31.0	.0	1.9	.0
Nov	64.9	37.2	51.1	86+	1974	2	60.3	1985	11	1970	25	44.3	1976	422	4	.0	.0	28.3	.0	10.5	.0
Dec	55.9	30.3	43.1	81+	1998	8	52.8	1971	3	1989	25	33.6	1989	679	0	.0	.0	22.0	.3	18.7	.0
Ann	73.3	46.9	60.2	107	Aug 1983	21	83.1	Jul 1986	-6	Jan 1985	21	29.6	Jan 1977	3315	1566	3.2	62.3	332.5	1.6	80.4	@

\+ 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: 1950-2001

(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	4.38	4.25	3.06	1995	15	8.19	1987	.91	1981
Feb	3.59	3.77	3.11	1973	2	6.43	1983	1.23	1977
Mar	4.40	3.92	2.58	1961	21	8.05	1983	1.17	1981
Apr	3.00	2.98	3.10+	1959	12	6.28	1998	.29	1976
May	3.71	3.40	3.09	1993	4	7.54	1984	.79	1999
Jun	4.40	3.57	4.32	1992	26	11.36	1992	.00	1998
Jul	6.35	5.58	6.10	1994	20	14.98	1994	2.15	1999
Aug	4.38	4.08	5.12	1964	30	11.35	1986	.97	1997
Sep	4.51	4.20	4.60	1994	24	12.90	1999	.17+	1985
Oct	3.70	3.62	7.61	1954	15	11.87	1990	.00	2000
Nov	3.41	2.97	2.70	1962	9	8.38	1992	.40	1973
Dec	3.24	2.89	2.96	1964	26	6.92	1973	.76	1985
Ann	49.07	49.07	7.61	Oct 1954	15	14.98	Jul 1994	.00+	Oct 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.4	7.9	3.3	1.0
Feb	9.8	6.7	2.5	1.0
Mar	10.3	7.7	3.2	1.2
Apr	8.3	5.6	2.4	.7
May	10.2	6.7	3.0	.9
Jun	10.0	6.6	3.2	1.3
Jul	12.4	8.9	4.0	1.9
Aug	10.8	7.2	3.0	1.3
Sep	8.5	5.9	3.0	1.3
Oct	7.2	4.9	2.2	1.2
Nov	8.9	5.9	2.4	.9
Dec	11.0	6.9	2.3	.6
Ann	118.8	80.9	34.5	13.3

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	1.61	2.02	2.61	3.11	3.58	4.06	4.58	5.19	5.97	7.16	8.26
Feb	1.25	1.59	2.09	2.50	2.90	3.31	3.75	4.27	4.93	5.96	6.90
Mar	1.50	1.92	2.52	3.04	3.53	4.04	4.59	5.24	6.07	7.36	8.54
Apr	.54	.81	1.25	1.66	2.07	2.53	3.04	3.66	4.49	5.82	7.09
May	1.34	1.69	2.20	2.62	3.02	3.43	3.88	4.40	5.06	6.09	7.03
Jun	.90	1.52	2.26	2.85	3.42	4.00	4.64	5.38	6.34	7.85	9.24
Jul	2.01	2.62	3.51	4.27	5.01	5.77	6.61	7.60	8.86	10.83	12.66
Aug	1.37	1.79	2.40	2.93	3.44	3.97	4.56	5.24	6.12	7.49	8.75
Sep	.68	1.06	1.71	2.33	2.98	3.69	4.50	5.50	6.85	9.03	11.13
Oct	.36	.78	1.40	1.93	2.49	3.08	3.75	4.57	5.66	7.42	9.10
Nov	.83	1.15	1.65	2.09	2.53	2.99	3.51	4.12	4.93	6.20	7.40
Dec	1.01	1.32	1.78	2.17	2.55	2.94	3.37	3.88	4.54	5.56	6.50
Ann	39.36	41.33	43.80	45.65	47.26	48.81	50.39	52.11	54.18	57.14	59.66

\+ 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: 1950-2001
(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	.3	.0	#	0
Feb	.8	.0	#	0
Mar	1.1	.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	.4	.0	#	0
Ann	2.6	.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	1.0	1981	30	1.0+	1985	12	2000	25	1	2000
Feb	8.0	1973	10	8.3	1973	#	1996	16	#	1996
Mar	8.0	1980	2	8.0	1980	8	1980	2	#+	1983
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	4.0	1971	3	4.0	1971	4	1971	3	#+	1980
Ann	8.0+	Mar 1980	2	8.3	Feb 1973	12	Jan 2000	25	1	Jan 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.3	.1	.0	.0	.0
Feb	.2	.1	.1	.1	.0
Mar	.2	.2	.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	.0	.0	.0	.0	.0
Dec	.2	.2	.1	.0	.0
Ann	.9	.6	.4	.2	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.1	.1	.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	.1	@	.0	.0
Ann	.3	.1	.1	.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	5/09	5/03	4/29	4/26	4/23	4/20	4/16	4/13	4/07
32	4/28	4/22	4/18	4/15	4/12	4/09	4/05	4/01	3/27
28	4/17	4/11	4/06	4/02	3/29	3/25	3/21	3/17	3/10
24	4/03	3/27	3/21	3/17	3/12	3/08	3/03	2/26	2/18
20	3/19	3/11	3/05	2/27	2/23	2/18	2/13	2/06	1/29
16	3/11	3/01	2/22	2/15	2/09	2/03	1/27	1/19	1/07

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	10/02	10/07	10/11	10/14	10/17	10/20	10/23	10/27	11/01
32	10/12	10/16	10/19	10/22	10/25	10/27	10/30	11/03	11/07
28	10/23	10/28	11/01	11/05	11/08	11/11	11/14	11/18	11/24
24	11/07	11/13	11/17	11/21	11/24	11/27	12/01	12/05	12/11
20	11/13	11/20	11/26	12/01	12/05	12/10	12/14	12/20	12/27
16	11/25	12/04	12/11	12/16	12/22	12/27	1/02	1/09	1/20

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	200	192	186	181	176	171	166	160	152
32	216	209	204	199	195	191	187	182	175
28	250	241	234	228	223	218	212	205	196
24	278	271	265	260	256	252	247	241	234
20	317	306	298	291	285	278	272	264	253
16	>365	344	327	318	310	303	296	288	277

***** 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	763	589	421	180	49	4	0	0	12	196	422	679	3315
60	618	450	281	83	13	0	0	0	2	107	287	531	2372
57	531	373	208	45	4	0	0	0	1	69	215	444	1890
55	475	321	167	27	2	0	0	0	0	49	174	389	1604
50	346	206	84	5	0	0	0	0	0	17	91	264	1013
32	57	11	0	0	0	0	0	0	0	0	0	26	94

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	317	346	606	833	1114	1293	1458	1409	1191	881	573	370	10391
55	22	12	60	171	403	603	745	696	501	217	57	20	3507
57	16	8	40	128	343	543	683	634	441	175	38	14	3063
60	10	1	19	77	259	453	590	541	353	121	19	8	2451
65	0	0	4	23	140	307	435	386	213	54	4	0	1566
70	0	0	0	4	60	175	281	234	98	18	0	0	870

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	137	199	396	624	899	1082	1240	1182	972	654	361	184	137	336	732	1356	2255	3337	4577	5759	6731	7385	7746	7930
45	71	115	266	477	744	932	1085	1027	822	499	236	103	71	186	452	929	1673	2605	3690	4717	5539	6038	6274	6377
50	34	61	158	336	590	782	930	872	672	352	139	54	34	95	253	589	1179	1961	2891	3763	4435	4787	4926	4980
55	10	22	83	212	436	632	775	717	522	219	67	25	10	32	115	327	763	1395	2170	2887	3409	3628	3695	3720
60	0	3	35	115	289	482	620	562	376	120	25	6	0	3	38	153	442	924	1544	2106	2482	2602	2627	2633
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	99	148	273	412	591	730	837	809	656	430	246	134	99	247	520	932	1523	2253	3090	3899	4555	4985	5231	5365

(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