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: DANBURY 5 SE, NC **COOP ID: 312238**

Climate Division: NC 3 **NWS Call Sign:** **Elevation: 760 Feet** **Lat: 36˚24N** **Lon: 80˚09W**

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	47.7	25.7	36.7	75+	1999	28	45.5	1974	-10	1985	21	25.9	1977	879	0	.0	.0	12.7	2.4	23.6	.2
Feb	51.8	27.7	39.8	81	1977	27	46.7	1976	-8+	1996	6	32.1	1978	708	0	.0	.0	15.1	1.6	20.2	.1
Mar	60.1	34.7	47.4	87+	2000	26	52.6	1976	3	1960	6	38.4	1993	545	0	.0	.0	25.1	.3	12.8	.0
Apr	70.2	42.4	56.3	93	1960	26	62.0	1985	20	1960	11	52.2	1997	270	8	.0	.3	28.9	.0	3.6	.0
May	77.0	51.0	64.0	99	2000	28	69.3	1982	26	1963	2	59.0	1997	103	72	.0	1.0	31.0	.0	.2	.0
Jun	84.2	60.3	72.3	99+	2000	14	76.9	1981	42+	2000	1	68.5	1972	9	226	.0	4.5	30.0	.0	.0	.0
Jul	88.2	64.9	76.6	102+	1977	10	81.0	1977	45+	1963	11	74.4+	1984	0	358	.4	10.6	31.0	.0	.0	.0
Aug	86.9	63.5	75.2	103	1983	21	78.4	1983	42+	1986	31	71.2	1992	0	317	.2	7.8	31.0	.0	.0	.0
Sep	80.9	56.5	68.7	100+	1983	12	72.9	1980	32+	1963	25	65.9	1974	32	142	.1	3.0	30.0	.0	.0	.0
Oct	71.4	42.9	57.2	90	1986	5	65.9	1984	16	1962	27	51.0	1987	269	26	.0	@	30.8	.0	4.2	.0
Nov	61.5	35.0	48.3	86	2000	4	57.4	1985	8	1970	25	41.5	1976	503	1	.0	.0	25.4	@	13.1	.0
Dec	51.6	28.3	40.0	80	1998	8	48.8	1984	-1	1983	25	31.3	1989	777	0	.0	.0	16.8	1.0	21.2	@
Ann	69.3	44.4	56.9	103	Aug 1983	21	81.0	Jul 1977	-10	Jan 1985	21	25.9	Jan 1977	4095	1150	.7	27.2	307.8	5.3	98.9	.3

\+ 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: 1948-2001

(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	3.86	3.71	2.31	1974	21	6.57	1978	.72	1981
Feb	3.26	3.20	2.27+	1996	3	6.34	1979	.36	1978
Mar	4.63	3.92	4.00	1975	30	11.21	1975	.96	1985
Apr	3.85	3.61	4.27	1987	16	9.93	1987	.50	1995
May	4.68	4.59	4.01	1999	14	9.77	1990	1.54	1988
Jun	3.87	3.32	6.99	1972	21	10.35	1982	.25	1990
Jul	4.84	4.63	4.35	1987	2	9.97	1994	1.04	1977
Aug	3.91	3.82	5.27	1995	28	7.61	1989	.91	1990
Sep	4.46	3.56	5.20	1979	22	12.12	1979	.06	1985
Oct	3.94	3.49	4.80	1970	31	14.05	1990	.00	2000
Nov	3.24	2.70	3.00	1962	10	9.34	1985	.78	1981
Dec	3.51	3.73	2.54	1961	12	7.45	1991	.39	1980
Ann	48.05	48.21	6.99	Jun 1972	21	14.05	Oct 1990	.00	Oct 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.6	6.5	2.9	1.1
Feb	7.5	5.9	2.2	.9
Mar	9.5	7.3	3.2	1.3
Apr	8.5	6.7	2.5	.9
May	10.1	7.2	3.3	1.3
Jun	9.2	6.6	2.7	.9
Jul	10.2	7.8	3.2	1.3
Aug	8.5	6.2	2.3	.9
Sep	8.0	6.0	2.8	1.4
Oct	7.1	5.3	2.7	1.3
Nov	8.0	6.1	2.1	.9
Dec	8.3	6.1	2.5	1.0
Ann	103.5	77.7	32.4	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	1.29	1.66	2.19	2.64	3.08	3.53	4.02	4.60	5.34	6.48	7.54
Feb	.85	1.16	1.63	2.05	2.46	2.89	3.37	3.94	4.68	5.86	6.95
Mar	1.40	1.84	2.49	3.06	3.61	4.18	4.81	5.55	6.51	8.00	9.39
Apr	1.02	1.38	1.94	2.43	2.91	3.41	3.98	4.64	5.51	6.87	8.15
May	1.65	2.09	2.73	3.27	3.78	4.31	4.89	5.56	6.41	7.74	8.95
Jun	.71	1.05	1.62	2.15	2.68	3.26	3.92	4.72	5.78	7.49	9.12
Jul	1.74	2.19	2.85	3.41	3.93	4.47	5.06	5.75	6.62	7.97	9.21
Aug	1.06	1.43	2.00	2.49	2.97	3.48	4.04	4.71	5.57	6.93	8.20
Sep	.45	.77	1.38	2.00	2.68	3.43	4.33	5.44	6.97	9.51	11.99
Oct	.35	.79	1.44	2.01	2.60	3.24	3.97	4.86	6.05	7.97	9.81
Nov	1.01	1.32	1.77	2.17	2.55	2.94	3.37	3.88	4.54	5.56	6.50
Dec	.78	1.10	1.62	2.08	2.55	3.04	3.60	4.26	5.14	6.53	7.85
Ann	35.72	38.15	41.24	43.57	45.62	47.60	49.64	51.88	54.59	58.50	61.87

\+ 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: 1948-2001
(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	1.7	.0	1	0	12.0	1987	22	12.0	1987	15	1987	23	9	1987	.6	.6	.4	.2	.1	1.9	1.5	.9	.0
Feb	5.1	2.5	#	0	10.5	1979	19	24.5	1979	11	1979	19	3+	1987	1.5	1.2	.6	.2	.1	1.5	.9	.6	.1
Mar	2.1	.0	#	0	9.5	1981	23	12.5	1981	7+	1993	16	1+	1993	.6	.6	.3	.1	.0	.4	.3	.1	.0
Apr	.1	.0	0	0	2.0	1992	5	2.0	1992	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	#	1987	11	#+	1987	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.9	.0	#	0	7.0	1997	30	7.0	1997	7+	1997	31	1	1993	.3	.3	.2	.1	.0	.6	.3	.1	.0
Ann	9.9	2.5	N/A	N/A	12.0	Jan 1987	22	24.5	Feb 1979	15	Jan 1987	23	9	Jan 1987	3.0	2.7	1.5	.6	.2	4.4	3.0	1.7	.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	5/14	5/10	5/07	5/04	5/02	4/30	4/27	4/24	4/20
32	5/03	4/28	4/24	4/21	4/18	4/15	4/11	4/08	4/02
28	4/22	4/16	4/12	4/08	4/05	4/01	3/28	3/24	3/18
24	4/01	3/26	3/22	3/19	3/16	3/13	3/09	3/05	2/28
20	3/22	3/15	3/10	3/05	3/01	2/25	2/21	2/16	2/09
16	3/06	2/27	2/22	2/18	2/14	2/10	2/06	2/01	1/25

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	9/28	10/02	10/05	10/07	10/10	10/12	10/15	10/18	10/22
32	10/07	10/12	10/15	10/17	10/20	10/22	10/25	10/28	11/01
28	10/14	10/20	10/25	10/29	11/01	11/05	11/08	11/13	11/19
24	10/30	11/05	11/09	11/12	11/15	11/18	11/22	11/26	12/01
20	11/12	11/18	11/23	11/27	11/30	12/04	12/08	12/12	12/18
16	11/25	12/03	12/09	12/14	12/19	12/24	12/29	1/04	1/12

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	176	171	167	163	160	157	153	149	143
32	205	198	193	188	184	180	176	171	164
28	232	225	219	214	210	205	201	195	187
24	266	258	253	248	244	239	235	229	222
20	296	288	282	278	273	269	264	258	251
16	334	323	316	310	305	300	294	288	279

***** 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	879	708	545	270	103	9	0	0	32	269	503	777	4095
60	724	568	398	148	38	1	0	0	7	159	359	622	3024
57	631	484	315	93	17	0	0	0	3	109	280	534	2466
55	574	429	263	64	9	0	0	0	1	81	230	476	2127
50	430	299	155	19	1	0	0	0	0	32	130	337	1403
32	76	22	4	0	0	0	0	0	0	0	2	40	144

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	221	239	481	728	992	1207	1381	1340	1100	780	489	286	9244
55	6	1	27	102	287	517	668	627	411	148	28	9	2831
57	0	0	17	71	233	457	606	565	353	114	17	4	2437
60	0	0	7	36	162	368	513	472	267	71	7	0	1903
65	0	0	0	8	72	226	358	317	142	26	1	0	1150
70	0	0	0	0	22	109	207	173	53	7	0	0	571

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	65	105	266	487	744	963	1125	1082	852	522	266	110	65	170	436	923	1667	2630	3755	4837	5689	6211	6477	6587
45	30	51	157	345	589	813	970	927	702	374	157	52	30	81	238	583	1172	1985	2955	3882	4584	4958	5115	5167
50	4	16	79	216	437	663	815	772	552	237	83	23	4	20	99	315	752	1415	2230	3002	3554	3791	3874	3897
55	0	2	31	120	292	513	660	617	402	129	38	4	0	2	33	153	445	958	1618	2235	2637	2766	2804	2808
60	0	0	7	53	162	363	505	462	264	56	9	0	0	0	7	60	222	585	1090	1552	1816	1872	1881	1881
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	50	84	183	312	470	647	772	741	559	345	185	82	50	134	317	629	1099	1746	2518	3259	3818	4163	4348	4430

(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