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: YADKINVILLE 6 E, NC **COOP ID: 319675**

Climate Division: NC 3 **NWS Call Sign:** **Elevation: 875 Feet** **Lat: 36˚08N** **Lon: 80˚33W**

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	47.1	24.8	36.0	77	1975	29	46.2	1974	-8	1985	21	25.2	1977	900	0	.0	.0	14.5	1.6	21.8	.2
Feb	51.9	26.6	39.3	82+	1982	24	45.9	1990	-1+	1996	6	31.3	1979	722	0	.0	.0	17.8	.7	19.0	.1
Mar	60.6	33.8	47.2	89	1990	12	51.4	1990	6	1993	15	42.1	1996	552	0	.0	.0	27.8	.1	12.3	.0
Apr	69.8	41.4	55.6	94	1960	25	59.2	1977	22+	1992	3	50.8	1997	286	4	.0	.5	29.7	.0	4.3	.0
May	77.3	51.9	64.6	97	1962	19	70.1	1991	29	1963	2	58.6	1997	92	80	.0	1.6	31.0	.0	.4	.0
Jun	84.2	60.3	72.3	104	1959	30	77.1	1986	39+	1972	12	68.0	1997	8	225	.1	7.6	30.0	.0	.0	.0
Jul	88.1	64.6	76.4	105+	1977	8	80.6	1993	47	1988	2	73.3	1979	0	352	.8	15.1	31.0	.0	.0	.0
Aug	86.6	62.9	74.8	104	1988	18	78.3	1987	44+	1997	23	71.7	1997	0	301	.3	11.5	31.0	.0	.0	.0
Sep	80.4	56.2	68.3	99+	1983	11	72.0	1980	32	1967	30	65.4	2000	33	133	.0	4.4	30.0	.0	.0	.0
Oct	71.0	43.5	57.3	94+	1986	4	65.7	1984	20	1965	30	52.4	1987	266	26	.0	.2	30.9	.0	3.3	.0
Nov	60.3	34.4	47.4	87	1974	2	55.3	1985	8	1970	25	40.7	1976	530	0	.0	.0	26.5	.0	12.2	.0
Dec	50.7	27.6	39.2	80	1998	8	47.3	1984	0+	1983	25	29.2	2000	802	0	.0	.0	17.8	.6	19.9	@
Ann	69.0	44.0	56.5	105+	Jul 1977	8	80.6	Jul 1993	-8	Jan 1985	21	25.2	Jan 1977	4191	1121	1.2	40.9	318.0	3.0	93.2	.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: 1940-2001

(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	3.89	3.89	2.45	1960	31	7.21	1978	.85	1981
Feb	3.49	3.40	2.53	1971	22	6.80	1971	.55	1978
Mar	4.66	4.21	3.70	1991	29	11.32	1975	1.04	1985
Apr	3.56	3.43	3.25	1998	17	7.56	1987	.42	1995
May	4.31	4.29	3.26	1940	30	8.69	1984	1.18+	1987
Jun	3.93	3.41	5.40	1972	21	8.57	1989	.02	1986
Jul	4.10	4.49	4.00	1987	2	7.10	1984	1.07	1976
Aug	3.33	3.09	6.57	1970	10	6.02	1988	.81	1982
Sep	4.00	3.42	5.62	1977	8	10.97	1979	.25	1985
Oct	3.69	3.06	4.50	1990	11	12.57	1990	.00	2000
Nov	3.13	2.73	3.25	1971	3	7.00	1985	1.12	1981
Dec	3.54	3.83	3.91	1958	28	7.09	1973	.62	1980
Ann	45.63	45.38	6.57	Aug 1970	10	12.57	Oct 1990	.00	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.3	7.3	2.8	1.1
Feb	8.6	6.2	2.4	.9
Mar	10.3	7.7	3.2	1.2
Apr	9.5	6.9	2.4	.8
May	10.7	7.7	2.8	1.2
Jun	10.4	7.5	2.7	.8
Jul	10.3	7.3	2.9	1.0
Aug	9.1	5.5	2.2	.9
Sep	8.1	5.7	2.8	1.3
Oct	6.8	4.8	2.4	1.0
Nov	8.6	5.9	2.4	.8
Dec	9.5	6.4	2.6	.9
Ann	112.2	78.9	31.6	11.9

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	1.41	1.78	2.30	2.75	3.17	3.60	4.07	4.61	5.31	6.38	7.37
Feb	1.11	1.44	1.93	2.35	2.76	3.17	3.64	4.17	4.87	5.95	6.95
Mar	1.48	1.92	2.57	3.14	3.68	4.24	4.85	5.57	6.50	7.95	9.29
Apr	.83	1.16	1.68	2.15	2.61	3.11	3.66	4.32	5.18	6.56	7.85
May	1.26	1.67	2.29	2.82	3.34	3.88	4.47	5.18	6.08	7.50	8.82
Jun	.72	1.07	1.64	2.18	2.72	3.31	3.98	4.79	5.87	7.61	9.26
Jul	1.45	1.84	2.40	2.87	3.32	3.78	4.29	4.87	5.62	6.78	7.84
Aug	1.14	1.46	1.92	2.31	2.68	3.06	3.48	3.96	4.59	5.55	6.44
Sep	.76	1.11	1.70	2.24	2.79	3.38	4.06	4.87	5.95	7.68	9.33
Oct	.36	.79	1.40	1.94	2.49	3.08	3.74	4.56	5.63	7.37	9.03
Nov	1.29	1.58	1.98	2.31	2.62	2.94	3.28	3.67	4.16	4.92	5.61
Dec	.92	1.26	1.77	2.22	2.67	3.14	3.66	4.27	5.08	6.35	7.54
Ann	34.07	36.36	39.25	41.44	43.37	45.22	47.13	49.23	51.77	55.43	58.58

\+ 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: 1940-2001
(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	3.7	1.0	#	#
Feb	3.2	1.3	#	#
Mar	1.3	.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	1.2	.0	#	0
Ann	9.4	2.3	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	16.0	1987	22	24.0	1987	16	1987	22	3	1996
Feb	10.0	1979	18	16.7	1979	10	1987	27	2	1979
Mar	6.0	1993	13	6.0+	1993	6	1993	13	1	1993
Apr	#	1992	4	#+	1992	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	.5	1987	11	.5	1987	#+	2000	20	#+	2000
Dec	8.0	1997	30	13.0	1997	8	1997	30	1	1997
Ann	16.0	Jan 1987	22	24.0	Jan 1987	16	Jan 1987	22	3	Jan 1996

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.5	1.1	.5	.1	@
Feb	1.4	.9	.4	.2	.1
Mar	.6	.3	.2	@	.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	.0	.0	.0	.0
Dec	.6	.4	.1	.1	.0
Ann	4.2	2.7	1.2	.4	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	3.3	1.5	.9	.3
Feb	1.9	.7	.2	.1
Mar	.6	.3	.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	.5	.2	.1	.0
Ann	6.3	2.7	1.3	.4

+ 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	5/15	5/10	5/06	5/03	4/30	4/27	4/24	4/21	4/16
32	5/07	5/01	4/27	4/23	4/20	4/17	4/13	4/09	4/03
28	4/21	4/16	4/12	4/09	4/06	4/02	3/30	3/26	3/21
24	4/04	3/30	3/26	3/23	3/20	3/17	3/13	3/10	3/04
20	3/23	3/16	3/12	3/07	3/04	2/28	2/24	2/19	2/12
16	3/07	2/27	2/22	2/18	2/14	2/09	2/05	1/31	1/23

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	9/27	10/02	10/05	10/08	10/10	10/13	10/16	10/19	10/23
32	10/08	10/12	10/15	10/17	10/19	10/22	10/24	10/27	10/31
28	10/12	10/18	10/22	10/25	10/28	10/31	11/03	11/07	11/13
24	10/25	10/31	11/05	11/09	11/13	11/16	11/20	11/25	12/01
20	11/10	11/17	11/21	11/25	11/29	12/02	12/06	12/11	12/17
16	11/24	12/02	12/07	12/12	12/16	12/20	12/25	12/30	1/07

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	184	177	171	167	163	158	154	148	141
32	200	194	189	185	182	178	174	169	163
28	225	218	213	209	205	201	196	191	184
24	263	254	247	242	237	232	227	220	211
20	292	284	279	274	269	265	260	254	247
16	334	324	317	311	305	299	293	286	276

***** 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	900	722	552	286	92	8	0	0	33	266	530	802	4191
60	745	582	399	158	32	1	0	0	7	156	385	647	3112
57	652	498	312	97	13	0	0	0	3	106	304	558	2543
55	595	442	257	66	6	0	0	0	1	79	253	501	2200
50	451	312	142	18	0	0	0	0	0	31	146	360	1460
32	88	27	1	0	0	0	0	0	0	0	3	49	168

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	211	229	472	708	1011	1207	1375	1324	1090	784	463	270	9144
55	5	0	15	83	304	517	662	611	401	150	23	9	2780
57	0	0	8	55	249	457	600	549	342	115	14	4	2393
60	0	0	2	25	174	368	507	456	257	72	5	0	1866
65	0	0	0	4	80	225	352	301	133	26	0	0	1121
70	0	0	0	0	26	109	204	158	47	7	0	0	551

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	91	141	320	538	806	998	1154	1109	890	577	291	128	91	232	552	1090	1896	2894	4048	5157	6047	6624	6915	7043
45	41	69	201	394	651	848	999	954	740	424	178	62	41	110	311	705	1356	2204	3203	4157	4897	5321	5499	5561
50	14	29	107	259	496	698	844	799	590	282	93	29	14	43	150	409	905	1603	2447	3246	3836	4118	4211	4240
55	0	5	51	152	345	548	689	644	440	162	42	5	0	5	56	208	553	1101	1790	2434	2874	3036	3078	3083
60	0	0	17	71	210	400	534	489	296	76	10	0	0	0	17	88	298	698	1232	1721	2017	2093	2103	2103
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	64	111	222	358	524	670	782	759	588	384	197	89	64	175	397	755	1279	1949	2731	3490	4078	4462	4659	4748

(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