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: WHITEVILLE 7 NW, NC **COOP ID: 319357**

Climate Division: NC 6 **NWS Call Sign:** **Elevation: 90 Feet** **Lat: 34˚25N** **Lon: 78˚47W**

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	56.5	32.5	44.5	80+	2000	5	58.3	1974	8+	1981	14	34.3	1977	644	0	.0	.0	21.1	.6	16.6	.0
Feb	59.9	34.4	47.2	86	1997	28	53.8	1976	5	1973	12	38.5	1978	499	0	.0	.0	20.9	.4	13.4	.0
Mar	68.0	40.8	54.4	89+	1985	30	59.8	1976	10	1980	4	49.2	1996	338	10	.0	.0	28.9	.1	6.5	.0
Apr	76.4	47.7	62.1	93	1957	22	66.7	1981	27+	1976	10	57.7	1983	130	40	.0	.6	29.9	.0	.9	.0
May	83.5	56.5	70.0	98	1996	20	73.8	1991	31	1963	2	66.4	1992	18	174	.0	3.6	31.0	.0	.0	.0
Jun	89.3	64.6	77.0	105	1954	27	81.1	1981	44	1966	2	73.3	1972	0	357	.1	11.2	30.0	.0	.0	.0
Jul	92.6	68.9	80.8	101+	1999	24	84.5	1993	52	1963	11	78.6	2000	0	488	.5	19.7	31.0	.0	.0	.0
Aug	91.0	67.4	79.2	104	1983	22	81.7	1975	51	1965	30	75.8	1994	0	441	.3	15.8	31.0	.0	.0	.0
Sep	86.3	61.8	74.1	98	1983	12	78.7	1980	40	1990	26	70.6	1994	5	277	.0	6.2	30.0	.0	.0	.0
Oct	77.4	49.1	63.3	95+	1986	6	69.8	1971	21	1962	27	57.4	1987	137	84	.0	.3	30.9	.0	1.0	.0
Nov	69.2	41.4	55.3	85+	1993	17	64.2	1985	18+	1976	9	48.9	1976	309	19	.0	.0	29.0	.0	7.4	.0
Dec	59.6	34.5	47.1	85	1998	9	56.9	1971	-2	1989	25	36.4	1989	564	7	.0	.0	23.8	.3	14.9	@
Ann	75.8	50.0	62.9	105	Jun 1954	27	84.5	Jul 1993	-2	Dec 1989	25	34.3	Jan 1977	2644	1897	.9	57.4	337.5	1.4	60.7	@

\+ 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: 1954-2001

(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	4.37	4.29	3.40	1999	24	8.04	1999	1.12	1981
Feb	3.41	2.52	3.00+	1973	10	7.98	1998	.91	1988
Mar	4.49	4.04	4.82	1998	9	8.81	1983	1.13	1985
Apr	2.94	2.63	3.47	1973	1	6.95	1973	.13	1976
May	4.54	4.74	3.75	1979	11	9.04	1979	.53	1987
Jun	4.69	4.63	4.35	1958	22	9.76	1981	.46	1990
Jul	5.64	5.24	5.59	1960	29	12.70	1984	3.24	1973
Aug	5.65	5.83	6.00	1958	26	13.45	1992	1.10	1980
Sep	5.44	4.42	10.38	1999	16	18.05	1999	.15	1990
Oct	2.99	2.75	4.75	1954	15	7.44	1971	.02	2000
Nov	2.79	2.35	3.70	1962	9	6.07	1992	.51	1981
Dec	3.27	3.28	2.70	1959	18	6.39	1973	.33	1988
Ann	50.22	50.28	10.38	Sep 1999	16	18.05	Sep 1999	.02	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.3	8.1	3.2	1.0
Feb	8.7	6.1	2.3	.9
Mar	9.9	7.5	3.0	1.2
Apr	7.2	5.0	2.1	.8
May	10.0	6.8	3.1	1.4
Jun	9.6	6.9	3.1	1.3
Jul	10.7	8.5	3.9	1.8
Aug	11.3	8.2	4.1	2.0
Sep	9.2	6.5	3.1	1.5
Oct	6.4	4.5	2.0	.9
Nov	8.0	4.8	2.0	.7
Dec	9.8	6.4	2.4	.7
Ann	112.1	79.3	34.3	14.2

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	1.68	2.09	2.67	3.15	3.61	4.07	4.58	5.16	5.90	7.04	8.08
Feb	.88	1.20	1.69	2.13	2.56	3.02	3.52	4.12	4.90	6.13	7.28
Mar	1.62	2.04	2.65	3.16	3.65	4.15	4.69	5.32	6.13	7.38	8.52
Apr	.46	.71	1.14	1.54	1.96	2.42	2.95	3.59	4.45	5.85	7.19
May	1.43	1.86	2.50	3.05	3.58	4.12	4.72	5.43	6.34	7.75	9.05
Jun	1.47	1.91	2.57	3.14	3.69	4.26	4.88	5.62	6.56	8.03	9.39
Jul	2.85	3.32	3.96	4.47	4.95	5.42	5.91	6.48	7.19	8.25	9.20
Aug	1.37	1.90	2.73	3.46	4.19	4.96	5.82	6.84	8.18	10.30	12.29
Sep	.80	1.26	2.04	2.79	3.58	4.44	5.43	6.64	8.28	10.94	13.49
Oct	.26	.46	.86	1.28	1.73	2.25	2.87	3.64	4.71	6.50	8.25
Nov	.67	.94	1.34	1.71	2.07	2.45	2.87	3.38	4.04	5.09	6.08
Dec	.87	1.18	1.66	2.07	2.48	2.91	3.38	3.95	4.68	5.83	6.91
Ann	38.43	40.78	43.75	45.98	47.95	49.84	51.78	53.91	56.47	60.16	63.32

\+ 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: 1954-2001
(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	.4	.0	#	0
Feb	1.2	.0	#	0
Mar	.5	.0	#	0
Apr	#	.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	.6	.0	#	0
Ann	2.7	.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	4.0	1973	8	4.0+	1988	5	2000	26	1+	2000
Feb	15.0	1973	10	15.5	1973	15	1973	10	3	1973
Mar	7.0	1980	3	8.0	1980	8	1980	3	1	1980
Apr	#	1989	11	#	1989	#	1989	11	#	1989
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	10.0	1989	24	10.2	1989	10	1989	25	2	1989
Ann	15.0	Feb 1973	10	15.5	Feb 1973	15	Feb 1973	10	3	Feb 1973

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.3	.2	.1	.0	.0
Feb	.4	.3	.2	@	@
Mar	.2	.1	.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	@	@	@
Ann	1.2	.8	.4	.1	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.4	.1	.0	.0
Feb	.5	.3	.2	.1
Mar	.2	.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	.3	.2	.1	.1
Ann	1.4	.7	.4	.2

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	5/01	4/24	4/20	4/16	4/13	4/09	4/05	4/01	3/26
32	4/17	4/10	4/05	4/01	3/28	3/24	3/20	3/15	3/08
28	4/06	3/29	3/24	3/19	3/14	3/09	3/05	2/27	2/19
24	3/11	3/04	2/28	2/24	2/20	2/17	2/13	2/08	2/02
20	3/01	2/20	2/13	2/07	2/02	1/27	1/21	1/12	0/00
16	2/12	2/02	1/25	1/16	1/05	0/00	0/00	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	10/11	10/15	10/18	10/20	10/23	10/25	10/28	10/31	11/04
32	10/14	10/20	10/24	10/28	11/01	11/04	11/08	11/12	11/18
28	11/01	11/06	11/10	11/14	11/17	11/20	11/23	11/27	12/02
24	11/15	11/22	11/28	12/02	12/06	12/11	12/15	12/21	12/28
20	11/25	12/07	12/15	12/22	12/29	1/05	1/14	1/25	0/00
16	12/22	12/31	1/07	1/15	1/26	0/00	0/00	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	215	208	202	197	193	188	183	178	170
32	244	235	228	222	217	212	206	199	190
28	276	266	259	253	247	241	235	227	217
24	314	305	299	293	288	283	278	272	263
20	>365	>365	358	338	327	318	310	300	288
16	>365	>365	>365	>365	>365	>365	>365	348	324

***** 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)

Base — Heating Degree Days (1)

Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	644	499	338	130	18	0	0	0	5	137	309	564	2644
60	500	366	209	52	2	0	0	0	1	66	194	420	1810
57	418	289	147	25	0	0	0	0	0	38	140	340	1397
55	367	242	112	14	0	0	0	0	0	25	108	292	1160
50	256	144	47	2	0	0	0	0	0	7	48	191	695
32	30	4	0	0	0	0	0	0	0	0	0	13	47

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	417	429	694	901	1178	1347	1511	1464	1262	970	699	480	11352
55	41	23	93	224	465	657	798	751	572	281	118	45	4068
57	30	15	66	176	404	597	736	689	512	233	89	32	3579
60	19	7	35	113	313	507	643	596	422	168	53	18	2894
65	0	0	10	40	174	357	488	441	277	84	19	7	1897
70	0	0	1	8	71	214	333	286	147	31	4	0	1095

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	197	244	445	645	913	1088	1244	1194	1006	702	444	244	197	441	886	1531	2444	3532	4776	5970	6976	7678	8122	8366
45	109	146	306	496	758	938	1089	1039	856	549	309	145	109	255	561	1057	1815	2753	3842	4881	5737	6286	6595	6740
50	58	75	188	354	603	788	934	884	706	398	195	78	58	133	321	675	1278	2066	3000	3884	4590	4988	5183	5261
55	27	35	101	228	450	638	779	729	556	259	106	39	27	62	163	391	841	1479	2258	2987	3543	3802	3908	3947
60	6	13	45	125	302	489	624	574	406	144	49	12	6	19	64	189	491	980	1604	2178	2584	2728	2777	2789
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	129	171	286	417	602	745	856	827	681	456	292	160	129	300	586	1003	1605	2350	3206	4033	4714	5170	5462	5622

(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