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: LAURINBURG, NC **COOP ID: 314860**

Climate Division: NC 6 **NWS Call Sign:** **Elevation: 210 Feet** **Lat: 34˚45N** **Lon: 79˚28W**

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	52.5	32.2	42.4	81	1950	26	54.7	1974	-3	1985	21	32.3	1977	703	0	.0	.0	20.5	.5	16.2	@
Feb	56.9	34.0	45.5	84+	1997	28	52.4	1976	6	1996	5	36.9	1978	548	0	.0	.0	21.5	.3	12.7	.0
Mar	65.2	41.8	53.5	91	1985	29	58.4	1997	8	1980	3	48.7	1996	363	6	.0	.1	29.4	@	6.4	.0
Apr	74.1	48.6	61.4	96	1990	28	65.1	1991	26+	1983	20	56.7	1983	143	33	.0	1.3	29.9	.0	1.0	.0
May	81.3	58.1	69.7	99	1953	31	74.0	2000	34	1989	8	65.5	1992	26	172	.0	5.0	31.0	.0	.0	.0
Jun	87.5	65.9	76.7	106	1954	27	80.7	1981	45	1966	2	72.7	1979	1	352	.7	15.1	30.0	.0	.0	.0
Jul	90.6	70.2	80.4	105+	1977	9	84.6	1986	53+	1963	11	77.8	1971	0	478	1.5	21.2	31.0	.0	.0	.0
Aug	88.7	68.8	78.8	107	1988	18	82.7	1999	33	1951	31	76.1	1981	0	426	.9	16.4	31.0	.0	.0	.0
Sep	83.4	62.7	73.1	103	1954	6	76.1	1980	39	1950	25	70.1	1994	4	246	.1	7.3	30.0	.0	.0	.0
Oct	74.3	50.2	62.3	100	1954	5	68.4	1984	21	1962	27	57.6	1988	147	62	.0	.7	31.0	.0	.6	.0
Nov	64.5	41.3	52.9	88+	1961	5	60.6	1985	14	1950	26	45.7	1976	370	8	.0	.0	28.6	.0	6.9	.0
Dec	55.2	34.5	44.9	81+	1991	4	53.6	1971	5	1962	13	34.1	1989	624	0	.0	.0	23.2	.2	14.3	.0
Ann	72.9	50.7	61.8	107	Aug 1988	18	84.6	Jul 1986	-3	Jan 1985	21	32.3	Jan 1977	2929	1783	3.2	67.1	337.1	1.0	58.1	@

\+ 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: 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	4.31	4.24	2.79	1993	8	7.71	2000	.84	1981
Feb	3.59	2.91	4.22	1973	2	7.83	1973	.89	1978
Mar	4.46	4.52	2.99	1983	18	9.75	1983	1.45	1985
Apr	2.80	2.70	4.09	1949	28	6.42	1973	.17	1976
May	3.33	2.93	3.02	1989	1	6.92	1976	.97	1997
Jun	4.96	5.22	4.80	1958	27	9.44	1978	.32	1990
Jul	5.33	4.73	4.70	1985	1	14.76	1985	1.79	1987
Aug	4.75	4.75	2.95	1959	30	8.92	1992	1.46	1975
Sep	4.89	4.05	6.85	1979	5	12.38	1999	.34	1985
Oct	3.40	3.19	7.65	1954	15	10.08	1990	.00	2000
Nov	3.07	2.49	3.49	1962	10	9.81	1985	.48	1973
Dec	3.28	2.94	2.38	1959	18	8.37	1983	.24	1988
Ann	48.17	47.51	7.65	Oct 1954	15	14.76	Jul 1985	.00	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.9	7.5	3.2	1.1
Feb	9.4	6.0	2.6	.9
Mar	11.0	7.1	3.3	1.3
Apr	8.3	4.8	2.0	.6
May	9.9	6.2	2.5	.7
Jun	10.1	7.0	3.4	1.5
Jul	11.9	8.4	3.8	1.3
Aug	10.7	7.3	3.2	1.6
Sep	9.0	5.9	2.8	1.3
Oct	7.1	4.8	2.1	1.0
Nov	8.4	5.1	2.3	.8
Dec	11.1	6.3	2.3	.8
Ann	118.8	76.4	33.5	12.9

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	1.65	2.05	2.62	3.10	3.55	4.01	4.51	5.09	5.83	6.97	8.00
Feb	1.01	1.35	1.86	2.31	2.75	3.21	3.72	4.32	5.10	6.32	7.46
Mar	1.52	1.94	2.56	3.08	3.58	4.09	4.65	5.31	6.15	7.46	8.66
Apr	.43	.67	1.08	1.46	1.86	2.30	2.81	3.42	4.25	5.59	6.88
May	1.09	1.40	1.87	2.26	2.65	3.04	3.47	3.97	4.62	5.63	6.56
Jun	1.17	1.63	2.36	3.00	3.65	4.33	5.09	6.01	7.20	9.10	10.88
Jul	1.98	2.47	3.19	3.79	4.36	4.94	5.57	6.31	7.24	8.68	10.00
Aug	1.90	2.34	2.96	3.47	3.95	4.44	4.97	5.58	6.36	7.55	8.63
Sep	.85	1.28	1.99	2.66	3.35	4.09	4.94	5.97	7.34	9.55	11.66
Oct	.34	.74	1.31	1.80	2.30	2.84	3.45	4.19	5.17	6.76	8.27
Nov	.63	.91	1.36	1.77	2.19	2.63	3.13	3.74	4.54	5.81	7.02
Dec	.79	1.10	1.58	2.00	2.43	2.87	3.37	3.97	4.75	5.98	7.14
Ann	37.61	39.73	42.40	44.40	46.15	47.84	49.56	51.45	53.72	56.98	59.77

\+ 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	.5	.0	#	0	5.0	1988	8	5.0	1988	8	2000	25	2	2000	.2	.2	@	@	.0	.6	.2	.1	.0
Feb	1.2	.0	#	0	7.0	1973	10	11.0	1973	11	1973	10	1	1979	.3	.3	.2	@	.0	.1	@	.0	.0
Mar	.7	.0	#	0	9.0	1980	3	9.0	1980	9	1980	3	#+	1993	.2	.1	.1	.1	.0	.2	.1	@	.0
Apr	#	.0	0	0	#	1989	11	#	1989	0	0	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	#	1975	24	#	1975	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.3	.0	#	0	3.0	1973	17	3.0	1973	2	1973	17	#+	1999	.1	.1	@	.0	.0	.2	.0	.0	.0
Ann	2.7	.0	N/A	N/A	9.0	Mar 1980	3	11.0	Feb 1973	11	Feb 1973	10	2	Jan 2000	.8	.7	.3	.1	.0	1.1	.3	.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	5/01	4/25	4/21	4/18	4/15	4/12	4/08	4/04	3/30
32	4/16	4/10	4/06	4/03	3/30	3/27	3/24	3/19	3/14
28	4/07	3/31	3/25	3/20	3/16	3/11	3/07	3/01	2/21
24	3/17	3/10	3/05	3/01	2/25	2/21	2/17	2/12	2/05
20	3/07	2/25	2/19	2/13	2/07	2/01	1/26	1/18	1/03
16	2/19	2/11	2/06	2/01	1/26	1/21	1/13	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	10/08	10/14	10/17	10/21	10/24	10/27	10/30	11/02	11/08
32	10/18	10/24	10/28	10/31	11/03	11/07	11/10	11/14	11/20
28	10/30	11/05	11/09	11/13	11/17	11/20	11/24	11/28	12/04
24	11/13	11/21	11/26	12/01	12/05	12/10	12/14	12/20	12/28
20	11/24	12/05	12/13	12/20	12/27	1/02	1/10	1/19	2/06
16	12/14	12/25	1/02	1/09	1/16	1/25	2/06	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	207	201	196	191	186	181	175	167
32	244	235	228	223	217	212	206	200	191
28	275	265	257	251	245	239	233	225	215
24	309	300	293	288	282	277	272	265	256
20	>365	>365	336	323	315	307	300	292	282
16	>365	>365	>365	>365	>365	347	334	324	312

***** 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	703	548	363	143	26	1	0	0	4	147	370	624	2929
60	557	411	228	59	5	0	0	0	0	70	241	480	2051
57	471	333	161	29	1	0	0	0	0	40	176	395	1606
55	416	283	124	16	0	0	0	0	0	26	139	342	1346
50	291	174	54	2	0	0	0	0	0	7	67	227	822
32	35	6	0	0	0	0	0	0	0	0	0	18	59

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	355	382	666	881	1168	1341	1501	1449	1232	938	627	417	10957
55	23	15	77	206	455	651	788	736	542	251	77	28	3849
57	16	9	53	159	394	591	726	674	482	203	54	19	3380
60	10	3	26	100	305	501	633	581	392	140	28	11	2730
65	0	0	6	33	172	352	478	426	246	62	8	0	1783
70	0	0	0	6	75	210	323	272	117	19	1	0	1023

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	176	249	458	676	942	1118	1264	1213	1015	715	431	239	176	425	883	1559	2501	3619	4883	6096	7111	7826	8257	8496
45	95	146	319	526	787	968	1109	1058	865	560	299	137	95	241	560	1086	1873	2841	3950	5008	5873	6433	6732	6869
50	48	79	201	383	632	818	954	903	715	408	190	72	48	127	328	711	1343	2161	3115	4018	4733	5141	5331	5403
55	20	36	108	250	477	668	799	748	565	268	102	36	20	56	164	414	891	1559	2358	3106	3671	3939	4041	4077
60	1	11	47	143	328	519	644	593	417	152	47	11	1	12	59	202	530	1049	1693	2286	2703	2855	2902	2913
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	115	169	295	439	624	760	861	838	689	462	276	150	115	284	579	1018	1642	2402	3263	4101	4790	5252	5528	5678

(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