

# Climatology of the United States

## No. 20

### 1971-2000

**Station: LEXINGTON, NC**

**COOP ID: 314970**

**Climate Division: NC 4**

**NWS Call Sign:**

**Elevation: 760 Feet Lat: 35° 51N**

**Lon: 80° 16W**

### 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	49.6	28.6	39.1	78+	1975	29	50.2	1974	-6	1985	21	28.9	1977	803	0	.0	.0	15.2	1.2	20.3	.1
Feb	54.4	30.9	42.7	83	1977	26	51.5	1976	2+	1996	5	34.7	1978	625	0	.0	.0	18.6	.5	16.8	.0
Mar	63.3	38.0	50.7	88+	1976	4	56.8	1976	5	1980	3	45.7	1996	448	2	.0	.0	28.4	.1	10.1	.0
Apr	72.5	45.3	58.9	95	1960	25	63.7	1977	21	1985	10	54.3	1983	200	17	.0	.4	29.8	.0	2.5	.0
May	79.3	54.5	66.9	98+	1962	19	72.1	1991	30+	1989	8	62.9	1992	57	115	.0	1.5	31.0	.0	.1	.0
Jun	85.5	62.9	74.2	105+	1954	27	77.5	1986	39	1992	22	70.1	1979	2	278	.0	8.4	30.0	.0	.0	.0
Jul	89.1	67.1	78.1	107	1952	29	81.6	1977	47	1988	2	74.5	1979	0	405	.8	16.5	31.0	.0	.0	.0
Aug	87.4	65.5	76.5	104	1983	21	79.9	1975	45+	1986	30	72.0	1992	0	355	.2	12.3	31.0	.0	.0	.0
Sep	81.6	59.1	70.4	100+	1957	2	74.6	1998	35	1983	25	66.6	1984	18	178	.0	4.1	30.0	.0	.0	.0
Oct	71.9	46.7	59.3	98	1954	5	66.8	1984	26+	2001	30	53.3	1988	216	40	.0	.1	30.9	.0	2.4	.0
Nov	61.7	37.9	49.8	86+	1974	2	57.3	1985	13	1950	26	44.8	1996	457	1	.0	.0	26.6	.0	9.8	.0
Dec	52.6	31.0	41.8	79	1956	7	51.2	1971	1	1983	25	33.2	2000	720	0	.0	.0	18.8	.5	18.6	.0
Ann	70.7	47.3	59.0	107	1952	29	81.6	1977	-6	1985	21	28.9	1977	3546	1391	1.0	43.3	321.3	2.3	80.6	.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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

Issue Date: February 2004

(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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### Precipitation (inches)

		Precipitation Totals								Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
		Means/Medians(1)		Extremes						Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Median	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	4.06	4.01	2.70	1960	31	8.71	1978	.67	1981	10.2	7.3	2.8	1.2	1.31	1.69	2.26	2.75	3.22	3.70	4.23	4.86	5.66	6.90	8.05
Feb	3.78	3.86	2.92	1973	2	7.36	1984	.48	1978	9.3	6.1	2.8	1.2	1.10	1.46	2.00	2.46	2.92	3.39	3.92	4.54	5.34	6.59	7.76
Mar	4.31	3.89	3.20	1991	29	9.22	1975	1.13	1985	10.2	7.5	3.1	1.2	1.56	1.96	2.55	3.04	3.50	3.98	4.50	5.11	5.88	7.07	8.17
Apr	3.62	3.63	4.34	1987	16	8.94	1987	.36	1976	9.0	6.3	2.5	.8	.88	1.22	1.75	2.22	2.68	3.17	3.73	4.38	5.24	6.60	7.87
May	3.93	3.75	2.95	1973	28	9.07	1990	.74	1987	10.0	7.3	2.8	.8	1.06	1.44	2.00	2.50	2.99	3.50	4.06	4.73	5.61	6.97	8.25
Jun	4.06	3.57	5.34	1972	21	8.07	1994	1.23	2000	9.5	6.1	2.9	1.2	1.43	1.81	2.37	2.83	3.28	3.74	4.24	4.82	5.57	6.72	7.78
Jul	3.85	3.48	3.47	1963	29	11.28	1975	.71	1990	10.4	6.8	2.7	.8	.78	1.13	1.70	2.22	2.74	3.30	3.93	4.68	5.69	7.29	8.81
Aug	3.63	2.94	4.20	1974	5	9.56	1988	.69+	1980	8.4	5.6	2.4	.9	.64	.96	1.49	1.99	2.49	3.04	3.67	4.43	5.44	7.07	8.63
Sep	3.84	3.24	6.53	1956	26	8.48	1975	.49	1985	7.7	5.2	2.5	1.4	.69	1.03	1.60	2.12	2.65	3.23	3.89	4.68	5.74	7.45	9.08
Oct	3.52	2.78	6.57	1954	15	14.00	1990	.00	2000	6.6	4.6	2.3	1.0	.17	.49	1.02	1.54	2.09	2.71	3.43	4.33	5.56	7.60	9.58
Nov	3.47	3.04	3.18	1985	21	9.66	1985	.49	1981	8.8	5.9	2.2	1.1	1.08	1.41	1.90	2.32	2.73	3.15	3.61	4.15	4.85	5.94	6.95
Dec	3.37	3.44	3.37	1958	28	7.11	1973	.72	1994	9.6	6.3	2.6	.9	.84	1.16	1.65	2.09	2.52	2.97	3.48	4.08	4.86	6.11	7.27
Ann	45.44	45.92	6.57	Oct 1954	15	14.00	Oct 1990	.00	Oct 2000	109.7	75.0	31.6	12.5	34.57	36.73	39.46	41.52	43.33	45.07	46.85	48.82	51.18	54.58	57.50

+ 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

Complete documentation available from:  
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Climate Division: NC 4

NWS Call Sign:

Elevation: 760 Feet

Lat: 35° 51N

Lon: 80° 16W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	2.4	.0	#	0	12.0	1987	21	14.0	1987	8	1988	8	1+	2000	.8	.7	.3	.1	@	1.0	.5	.3	.0
Feb	2.8	1.0	#	#	12.5	1979	18	18.8	1979	13	1979	18	1	1989	.9	.8	.3	.1	@	.5	.2	.1	@
Mar	1.2	.0	#	0	6.5	1980	2	8.3	1980	7	1980	2	#+	1999	.4	.4	.2	@	.0	.1	.1	@	.0
Apr	#	.0	0	0	#	1992	4	#+	1992	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	1.0	1987	11	1.0	1987	#	1972	17	#	1972	@	@	.0	.0	.0	.0	.0	.0	.0
Dec	.6	.0	#	0	6.0	1973	17	7.0	1973	7	1973	17	#+	1999	.3	.2	.1	.1	.0	.1	@	@	.0
Ann	7.0	1.0	N/A	N/A	12.5	Feb 1979	18	18.8	Feb 1979	13	Feb 1979	18	1+	Jan 2000	2.4	2.1	.9	.3	@	1.7	.8	.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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<b>Freeze Data</b>									
<b>Spring Freeze Dates (Month/Day)</b>									
<b>Temp (F)</b>	<b>Probability of later date in spring (thru Jul 31) than indicated(*)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	5/10	5/05	4/30	4/27	4/24	4/20	4/17	4/13	4/07
<b>32</b>	4/28	4/22	4/18	4/14	4/11	4/07	4/04	3/30	3/24
<b>28</b>	4/19	4/11	4/05	4/01	3/27	3/23	3/18	3/13	3/05
<b>24</b>	4/03	3/27	3/22	3/18	3/14	3/10	3/06	3/01	2/23
<b>20</b>	3/20	3/12	3/06	3/02	2/25	2/21	2/16	2/10	2/03
<b>16</b>	3/10	2/27	2/19	2/13	2/06	1/31	1/24	1/15	1/02
<b>Fall Freeze Dates (Month/Day)</b>									
<b>Temp (F)</b>	<b>Probability of earlier date in fall (beginning Aug 1) than indicated(*)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	10/02	10/06	10/09	10/11	10/13	10/16	10/18	10/21	10/25
<b>32</b>	10/07	10/12	10/16	10/19	10/21	10/24	10/27	10/30	11/04
<b>28</b>	10/21	10/26	10/30	11/02	11/05	11/08	11/12	11/15	11/21
<b>24</b>	11/07	11/12	11/15	11/18	11/21	11/24	11/27	12/01	12/06
<b>20</b>	11/16	11/23	11/29	12/03	12/08	12/12	12/16	12/22	12/29
<b>16</b>	11/29	12/07	12/13	12/19	12/24	12/29	1/03	1/10	1/20
<b>Freeze Free Period</b>									
<b>Temp (F)</b>	<b>Probability of longer than indicated freeze free period (Days)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	195	187	181	177	172	168	163	157	149
<b>32</b>	217	209	203	198	193	188	183	177	169
<b>28</b>	250	240	234	228	222	217	211	204	195
<b>24</b>	278	269	262	257	251	246	241	234	225
<b>20</b>	317	306	298	291	285	278	272	264	253
<b>16</b>	>365	348	330	321	313	306	299	291	280

\* 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

Complete documentation available from:

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Climate Division: NC 4

NWS Call Sign:

Elevation: 760 Feet

Lat: 35° 51N

Lon: 80° 16W

### 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
65	803	625	448	200	57	2	0	0	18	216	457	720	3546
60	652	485	306	97	15	0	0	0	3	119	315	570	2562
57	566	407	230	54	5	0	0	0	1	76	237	482	2058
55	508	355	185	34	2	0	0	0	0	54	191	425	1754
50	372	235	97	7	0	0	0	0	0	18	98	294	1121
32	63	16	1	0	0	0	0	0	0	0	0	33	113

Base	Cooling Degree Days (1)												
	Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
32	282	315	578	807	1082	1266	1428	1378	1150	847	535	336	10004
55	15	10	49	151	371	576	715	665	460	188	35	15	3250
57	11	6	32	111	312	516	653	603	401	149	21	10	2825
60	4	0	15	64	228	426	560	510	313	98	10	6	2234
65	0	0	2	17	115	278	405	355	178	40	1	0	1391
70	0	0	0	2	42	143	250	207	74	12	0	0	730

### 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	111	169	360	583	850	1045	1201	1149	925	615	320	151	111	280	640	1223	2073	3118	4319	5468	6393	7008	7328	7479
45	53	93	231	436	695	895	1046	994	775	460	203	82	53	146	377	813	1508	2403	3449	4443	5218	5678	5881	5963
50	26	46	132	298	540	745	891	839	625	316	109	40	26	72	204	502	1042	1787	2678	3517	4142	4458	4567	4607
55	1	15	64	178	389	595	736	684	475	190	51	13	1	16	80	258	647	1242	1978	2662	3137	3327	3378	3391
60	0	1	26	90	248	446	581	529	334	94	14	0	0	1	27	117	365	811	1392	1921	2255	2349	2363	2363
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	70	119	241	379	559	713	820	790	619	394	207	102	70	189	430	809	1368	2081	2901	3691	4310	4704	4911	5013

(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.  
Complete documentation for the 1971-2000 Normals is available on the internet from:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/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.

- |   |   |
|---|---|
| <ol style="list-style-type: none"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

- U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)