

Climatography of the United States

No. 20

1971-2000

Station: ELIZABETHTOWN LOCK 2, NC

COOP ID: 312732

Climate Division: NC 6

NWS Call Sign:

Elevation: 60 Feet

Lat: 34° 38N

Lon: 78° 35W

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	54.1	31.6	42.9	81	1970	29	55.7	1974	-3	1985	21	31.9	1977	688	0	.0	.0	21.2	.4	16.4	@
Feb	57.9	33.4	45.7	85+	1997	28	53.0	1990	8	1973	12	36.3	1978	543	0	.0	.0	21.5	.4	13.3	.0
Mar	66.4	41.2	53.8	90+	1985	30	59.1	1997	13	1980	3	48.7	1971	353	6	.0	.1	29.2	.1	6.4	.0
Apr	73.9	48.0	61.0	94	1981	28	65.2	1981	24	1985	10	56.2	1983	151	28	.0	.9	29.8	.0	.7	.0
May	80.3	57.5	68.9	96+	1981	31	73.3	1991	32	1963	2	65.3	1992	24	144	.0	2.6	31.0	.0	.0	.0
Jun	86.0	64.7	75.4	101	1990	22	79.3	1981	44	1966	2	71.4	1997	1	311	.1	8.7	30.0	.0	.0	.0
Jul	89.4	69.6	79.5	100+	1986	19	83.6	1993	53	1984	9	77.3	1975	0	450	.1	17.1	31.0	.0	.0	.0
Aug	87.8	68.2	78.0	104	1983	22	80.4	1999	50+	1976	31	75.2	1976	0	402	.2	12.7	31.0	.0	.0	.0
Sep	83.1	62.3	72.7	99	1983	7	76.8	1980	41	1970	30	69.8	1984	5	237	.0	4.7	30.0	.0	.0	.0
Oct	74.4	50.3	62.4	95+	1986	6	69.3	1985	21	1962	27	56.3	1987	150	69	.0	.3	31.0	.0	.7	.0
Nov	65.9	41.1	53.5	89	1974	2	63.5	1985	16	1970	25	46.8	1976	356	11	.0	.0	28.8	.0	6.1	.0
Dec	57.7	34.0	45.9	82+	1998	9	54.3	1971	-3	1989	25	34.6	1989	595	0	.0	.0	24.0	.3	13.8	@
Ann	73.1	50.2	61.6	104	Aug 1983	22	83.6	Jul 1993	-3+	Dec 1989	25	31.9	Jan 1977	2866	1658	.4	47.1	338.5	1.2	57.4	.0

+ 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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1933-2001

(3) Derived from 1971-2000 serially complete daily data

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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

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Climate Division: NC 6

NWS Call Sign:

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Lon: 78°35W

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	Med-ian	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	4.37	4.13	3.30	1999	25	7.99	1999	1.40	1981	10.3	6.6	3.1	.9	1.93	2.32	2.86	3.31	3.72	4.14	4.58	5.09	5.74	6.72	7.60
Feb	3.32	2.83	2.89	1998	17	7.71	1983	.84	1978	8.8	5.6	2.3	.8	.89	1.20	1.68	2.10	2.52	2.95	3.43	4.00	4.75	5.92	7.01
Mar	4.52	3.82	3.95	1998	9	10.10	1983	1.09	1985	9.6	6.6	3.1	1.3	1.36	1.79	2.44	2.99	3.52	4.08	4.69	5.42	6.35	7.80	9.15
Apr	3.06	2.95	3.17	1973	1	6.72	1973	.14	1976	7.2	4.8	1.8	.8	.47	.73	1.17	1.59	2.03	2.51	3.06	3.73	4.63	6.10	7.51
May	3.54	3.47	3.68	1969	26	7.68	1974	.45	1987	9.4	6.5	2.5	.9	.93	1.27	1.78	2.23	2.68	3.14	3.66	4.27	5.07	6.34	7.51
Jun	4.10	3.86	4.60+	1945	26	12.03	1995	.54	1990	8.8	6.2	2.6	1.2	1.35	1.74	2.31	2.80	3.26	3.75	4.28	4.89	5.69	6.93	8.07
Jul	5.78	5.51	4.87	1981	30	10.38	1985	2.08	1990	10.7	7.8	3.5	1.7	2.75	3.25	3.94	4.49	5.00	5.52	6.06	6.69	7.47	8.65	9.71
Aug	6.15	5.24	4.78	1981	20	16.29	1992	1.24	1979	10.5	7.3	3.3	1.8	1.50	2.07	2.97	3.77	4.56	5.40	6.33	7.45	8.90	11.21	13.37
Sep	5.35	3.59	11.75	1999	16	18.81	1999	.20	1990	8.0	5.6	2.7	1.6	.56	.96	1.70	2.44	3.25	4.15	5.21	6.54	8.34	11.33	14.26
Oct	3.14	2.89	6.65	1999	17	9.15	1999	.05	2000	5.9	3.8	1.7	.7	.33	.56	.99	1.43	1.90	2.43	3.06	3.83	4.89	6.65	8.36
Nov	2.68	2.38	4.25	1969	2	5.67	1992	.33	1973	6.7	4.0	1.9	.7	.68	.94	1.33	1.67	2.01	2.37	2.77	3.24	3.86	4.83	5.75
Dec	3.42	3.33	2.35	1959	19	6.32	1983	.16	1988	9.1	5.8	2.2	.8	.82	1.14	1.64	2.08	2.52	2.99	3.51	4.14	4.95	6.24	7.46
Ann	49.43	48.62	11.75	Sep 1999	16	18.81	Sep 1999	.05	Oct 2000	105.0	70.6	30.7	13.2	37.85	40.16	43.08	45.27	47.19	49.05	50.95	53.03	55.55	59.16	62.26

+ 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: 1933-2001

(3) Derived from 1971-2000 serially complete daily data

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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	.4	.0	#	0	5.0	1988	8	5.0	1988	1	1981	31	#+	1997	.2	.1	.1	.1	.0	@	.0	.0	.0
Feb	.9	.0	#	0	5.5	1989	24	5.5	1989	4	1979	19	#+	1999	.3	.3	.1	.1	.0	.1	@	.0	.0
Mar	.0	.0	0	0	.3	1972	26	.3	1972	0	0	0	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	#	0	.5	1988	16	.5	1988	#	1997	15	#	1997	.1	.0	.0	.0	.0	.0	.0	.0	.0
Ann	1.3	.0	N/A	N/A	5.5	Feb 1989	24	5.5	Feb 1989	4	Feb 1979	19	#+	Feb 1999	.7	.4	.2	.2	.0	.1	@	.0	.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	4/24	4/19	4/15	4/11	4/07	4/03	3/29	3/22
32	4/14	4/09	4/05	4/01	3/29	3/26	3/22	3/18	3/13
28	4/03	3/28	3/23	3/19	3/16	3/12	3/08	3/03	2/25
24	3/17	3/09	3/03	2/26	2/21	2/16	2/11	2/06	1/29
20	3/02	2/22	2/17	2/12	2/07	2/02	1/27	1/19	0/00
16	2/23	2/14	2/07	1/31	1/24	1/17	1/05	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	10/21	10/23	10/25	10/28	10/31	11/04
32	10/16	10/22	10/27	10/31	11/04	11/07	11/11	11/16	11/22
28	10/31	11/06	11/11	11/15	11/18	11/22	11/26	11/30	12/07
24	11/08	11/18	11/25	12/02	12/07	12/13	12/20	12/27	1/06
20	11/22	12/03	12/11	12/18	12/24	12/31	1/08	1/19	0/00
16	12/21	12/30	1/06	1/12	1/18	1/25	2/05	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	218	210	204	199	194	190	185	179	171
32	244	235	229	224	219	214	209	202	194
28	274	265	258	252	247	242	236	229	220
24	324	310	301	294	287	280	273	265	254
20	>365	>365	>365	324	313	305	298	290	280
16	>365	>365	>365	>365	>365	351	337	325	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)

Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	688	543	353	151	24	1	0	0	5	150	356	595	2866
60	546	410	219	64	3	0	0	0	1	74	230	451	1998
57	461	333	154	31	1	0	0	0	0	44	168	368	1560
55	408	284	118	18	0	0	0	0	0	29	133	316	1306
50	289	180	50	3	0	0	0	0	0	9	63	206	800
32	39	9	0	0	0	0	0	0	0	0	0	14	62

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	375	390	677	868	1143	1300	1473	1425	1222	941	645	443	10902
55	31	21	81	195	430	610	760	712	532	257	88	32	3749
57	23	14	55	149	369	550	698	650	472	210	63	22	3275
60	14	7	27	91	278	460	605	557	382	148	35	12	2616
65	0	0	6	28	144	311	450	402	237	69	11	0	1658
70	0	0	0	5	52	174	295	248	110	23	2	0	909

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	185	242	454	657	912	1078	1235	1191	1002	702	446	249	185	427	881	1538	2450	3528	4763	5954	6956	7658	8104	8353
45	104	146	318	508	757	928	1080	1036	852	547	311	144	104	250	568	1076	1833	2761	3841	4877	5729	6276	6587	6731
50	54	80	202	362	602	778	925	881	702	399	194	74	54	134	336	698	1300	2078	3003	3884	4586	4985	5179	5253
55	22	38	111	236	449	628	770	726	552	260	110	38	22	60	171	407	856	1484	2254	2980	3532	3792	3902	3940
60	3	11	49	129	303	478	615	571	403	142	50	10	3	14	63	192	495	973	1588	2159	2562	2704	2754	2764
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	120	169	294	419	600	747	861	833	687	450	287	162	120	289	583	1002	1602	2349	3210	4043	4730	5180	5467	5629

(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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
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 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/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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