

Climatology of the United States

No. 20

1971-2000

Station: TARBORO 1 S, NC

COOP ID: 318500

Climate Division: NC 8

NWS Call Sign:

Elevation: 35 Feet

Lat: 35° 53N

Lon: 77° 32W

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	50.0	28.3	39.2	80	1970	29	49.6	1974	-5	1985	21	29.5	1977	801	0	.0	.0	18.5	.8	19.7	@
Feb	52.7	29.3	41.0	84	1989	15	47.6	1976	2	1996	5	31.8	1978	672	0	.0	.0	19.9	.5	16.4	.0
Mar	60.9	36.9	48.9	91	1990	14	54.0	2000	8	1980	4	43.3	1996	499	0	.0	.1	27.9	@	9.3	.0
Apr	69.5	44.5	57.0	96+	1990	28	61.7	1985	25	1976	10	52.9	1997	251	9	.0	.8	29.8	.0	2.0	.0
May	77.5	55.2	66.4	98	1982	30	71.6	1991	32	1966	11	62.0	1997	65	108	.0	3.4	31.0	.0	.0	.0
Jun	84.5	63.6	74.1	105+	1954	28	78.3	1981	41	1977	8	70.1	1972	4	276	@	11.6	30.0	.0	.0	.0
Jul	88.4	68.5	78.5	103+	1993	11	81.8	1991	49	1988	2	75.3	1984	0	416	.9	19.0	31.0	.0	.0	.0
Aug	87.1	66.7	76.9	105	1988	18	80.6	1980	45	1976	31	74.0+	1981	0	368	.3	14.2	31.0	.0	.0	.0
Sep	81.8	60.2	71.0	100+	1993	2	75.4	1980	37	1981	24	67.9	1994	13	194	.1	4.7	30.0	.0	.0	.0
Oct	72.4	47.7	60.1	95	1954	7	67.0	1984	20+	1976	29	54.2	1988	199	46	.0	.4	31.0	.0	1.6	.0
Nov	63.0	38.2	50.6	86+	1961	6	59.9	1985	14	1976	9	42.7	1976	437	4	.0	.0	27.8	.0	9.7	.0
Dec	54.0	31.7	42.9	83	1978	4	51.8	1971	0	1989	25	31.0	1989	686	0	.0	.0	22.3	.3	17.3	@
Ann	70.2	47.6	58.9	105+	Aug 1988	18	81.8	Jul 1991	-5	Jan 1985	21	29.5	Jan 1977	3627	1421	1.3	54.2	330.2	1.6	76.0	.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: 1948-2001

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

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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: TARBORO 1 S, NC

COOP ID: 318500

Climate Division: NC 8

NWS Call Sign:

Elevation: 35 Feet

Lat: 35°53N

Lon: 77°32W

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	4.27	4.02	3.73	1992	4	8.17	1987	1.78	1981	11.9	7.6	3.2	1.0	1.93	2.31	2.83	3.26	3.65	4.05	4.48	4.96	5.58	6.51	7.35
Feb	3.53	3.37	2.33	1998	4	6.33	1983	1.44	1991	9.4	6.4	2.7	.9	1.28	1.62	2.09	2.49	2.88	3.27	3.69	4.19	4.82	5.79	6.68
Mar	4.20	4.63	3.36	1952	4	6.96	1994	1.30+	1986	10.9	7.1	3.1	1.1	1.79	2.17	2.70	3.14	3.55	3.96	4.41	4.92	5.56	6.55	7.44
Apr	3.09	2.93	2.17	1987	16	7.74	1989	.27	1985	8.0	5.8	2.2	.8	.69	.98	1.43	1.84	2.24	2.68	3.16	3.74	4.51	5.73	6.88
May	3.73	3.32	4.57	1977	25	8.89	1979	1.31	1985	10.2	6.9	2.6	.7	1.32	1.67	2.18	2.61	3.02	3.44	3.90	4.43	5.11	6.16	7.12
Jun	3.73	3.17	4.21	1950	20	10.48	1995	.67	1971	9.1	6.1	2.7	.9	1.12	1.47	2.01	2.46	2.91	3.37	3.88	4.48	5.25	6.46	7.58
Jul	4.45	4.29	4.49	1960	30	10.45	1985	1.53	1987	10.7	7.2	3.1	1.2	1.37	1.79	2.42	2.96	3.49	4.03	4.63	5.33	6.24	7.66	8.97
Aug	4.81	4.65	4.75	1955	12	11.64	1992	1.65	1993	10.0	6.8	3.4	1.5	1.69	2.14	2.80	3.36	3.89	4.43	5.03	5.72	6.60	7.97	9.23
Sep	4.92	4.01	6.50	1979	6	19.47	1999	.19	1990	8.4	5.7	3.0	1.6	.66	1.06	1.76	2.45	3.17	3.96	4.88	6.01	7.54	10.05	12.46
Oct	3.20	2.75	5.09	1971	1	11.86	1971	.01	2000	7.3	4.5	2.2	.9	.31	.54	.98	1.43	1.91	2.45	3.10	3.90	5.00	6.83	8.62
Nov	2.55	2.21	2.86	1977	7	6.57	1992	.57	1981	8.2	5.0	2.0	.7	.71	.95	1.32	1.64	1.95	2.28	2.65	3.07	3.63	4.51	5.32
Dec	3.06	3.21	3.30	1964	27	6.99	1973	.58	1988	10.3	6.2	2.2	.6	.83	1.12	1.56	1.95	2.33	2.72	3.16	3.68	4.36	5.43	6.42
Ann	45.54	45.14	6.50	Sep 1979	6	19.47	Sep 1999	.01	Oct 2000	114.4	75.3	32.4	11.9	34.27	36.50	39.33	41.46	43.34	45.15	47.01	49.05	51.52	55.07	58.12

+ 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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Climate Division: **NC 8**

NWS Call Sign:

Elevation: **35 Feet**

Lat: **35°53N**

Lon: **77°32W**

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	1.3	.0	#	0	4.0	1973	9	9.5	2000	6+	2000	26	1+	2000	.8	.6	.2	.0	.0	.5	.2	.1	.0
Feb	2.9	.0	#	0	8.0	1979	19	14.8	1989	9	1973	11	1	1973	1.0	.8	.4	.2	.0	.3	.1	.1	.0
Mar	1.4	.0	#	0	12.5	1980	3	18.5	1980	12	1983	25	#+	1996	.3	.2	.1	.1	.1	.2	.2	.1	.1
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	0	.8	1987	12	.8	1987	0	0	0	0	0	@	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.6	.0	#	0	12.0	2000	4	12.5	2000	12	2000	4	1	2000	.2	.2	@	@	@	.3	.2	.1	.1
Ann	6.2	.0	N/A	N/A	12.5	Mar 1980	3	18.5	Mar 1980	12+	Dec 2000	4	1+	Dec 2000	2.3	1.8	.7	.3	.1	1.3	.7	.4	.2

+ 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

Complete documentation available from:

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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	5/03	4/27	4/23	4/19	4/16	4/13	4/09	4/05	3/30
32	4/19	4/14	4/10	4/07	4/04	4/01	3/28	3/24	3/19
28	4/10	4/03	3/29	3/25	3/21	3/17	3/12	3/07	2/28
24	3/26	3/19	3/15	3/11	3/07	3/03	2/27	2/22	2/15
20	3/11	3/02	2/24	2/19	2/15	2/10	2/05	1/30	1/22
16	2/28	2/19	2/13	2/07	2/02	1/27	1/20	1/09	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	10/07	10/12	10/15	10/18	10/21	10/23	10/26	10/30	11/03
32	10/13	10/18	10/22	10/25	10/28	10/31	11/03	11/07	11/12
28	10/25	10/31	11/05	11/09	11/12	11/16	11/20	11/24	12/01
24	11/07	11/15	11/21	11/26	11/30	12/05	12/10	12/16	12/24
20	11/25	12/03	12/08	12/13	12/17	12/21	12/26	12/31	1/08
16	12/03	12/15	12/24	1/01	1/08	1/17	1/26	2/10	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	210	202	196	191	187	182	177	172	164
32	232	223	217	212	207	202	196	190	182
28	266	256	248	242	236	230	224	216	206
24	296	286	279	273	268	262	256	249	240
20	339	326	317	310	304	297	291	283	272
16	>365	>365	365	346	336	327	319	310	298

* 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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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	801	672	499	251	65	4	0	0	13	199	437	686	3627
60	647	532	349	132	19	0	0	0	2	108	302	541	2632
57	559	448	265	80	7	0	0	0	0	69	229	456	2113
55	502	397	213	53	3	0	0	0	0	48	188	401	1805
50	363	270	111	13	0	0	0	0	0	16	104	280	1157
32	51	19	1	0	0	0	0	0	0	0	1	33	105

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	273	272	525	749	1066	1262	1439	1391	1171	870	559	371	9948
55	11	6	24	112	356	572	726	678	481	205	55	26	3252
57	6	1	14	78	298	512	664	616	421	164	37	18	2829
60	1	0	5	41	217	422	571	523	333	110	19	11	2253
65	0	0	0	9	108	276	416	368	194	46	4	0	1421
70	0	0	0	1	40	147	262	216	82	14	0	0	762

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	136	179	370	598	872	1067	1232	1175	970	659	375	185	136	315	685	1283	2155	3222	4454	5629	6599	7258	7633	7818
45	71	101	243	452	717	917	1077	1020	820	504	248	102	71	172	415	867	1584	2501	3578	4598	5418	5922	6170	6272
50	32	50	139	312	562	767	922	865	670	357	149	51	32	82	221	533	1095	1862	2784	3649	4319	4676	4825	4876
55	9	18	70	192	408	617	767	710	521	222	75	23	9	27	97	289	697	1314	2081	2791	3312	3534	3609	3632
60	0	4	33	102	264	468	612	555	372	118	34	3	0	4	37	139	403	871	1483	2038	2410	2528	2562	2565
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	93	132	240	384	570	723	837	806	656	426	246	127	93	225	465	849	1419	2142	2979	3785	4441	4867	5113	5240

(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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. 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