

Climatology of the United States

No. 20

1971-2000

Station: BELHAVEN 5 SW, NC

COOP ID: 310674

Climate Division: NC 7

NWS Call Sign:

Elevation: 8 Feet

Lat: 35° 30N

Lon: 76° 41W

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	53.1	33.7	43.4	80	1943	18	54.2	1974	-10	1985	22	33.2	1977	670	0	.0	.0	18.8	1.2	15.9	.1
Feb	56.8	36.3	46.6	82	1989	4	54.0	1990	4	1996	5	37.0	1978	518	0	.0	.0	18.8	.7	13.0	.0
Mar	64.1	41.9	53.0	92	1945	17	58.1	1997	10	1943	4	48.5	1981	377	5	.0	.0	27.7	.1	5.5	.0
Apr	73.4	50.0	61.7	94	1985	23	66.0	1977	26+	1944	6	58.2	1987	134	36	.0	.5	29.7	.0	.4	.0
May	79.6	58.3	69.0	105	1941	29	73.4	1991	40+	1992	1	63.5	1992	24	147	.0	1.9	31.0	.0	.0	.0
Jun	85.9	66.3	76.1	102	1936	30	80.7	1981	43	1933	3	72.7	1992	1	335	@	6.9	30.0	.0	.0	.0
Jul	89.2	70.5	79.9	102	1940	22	82.3	1986	52	1933	4	76.9	2000	0	461	.1	13.6	31.0	.0	.0	.0
Aug	87.3	68.8	78.1	101	1988	19	81.1	1978	46	1941	14	75.6	1981	0	405	.1	9.6	31.0	.0	.0	.0
Sep	82.8	63.2	73.0	101	1939	10	75.9	1980	44+	1981	24	70.1	1984	4	245	.0	2.4	30.0	.0	.0	.0
Oct	73.4	51.0	62.2	95+	1941	6	67.8	1971	26	1942	28	56.1	1988	158	70	.0	.2	30.9	.0	.2	.0
Nov	65.2	43.9	54.6	85	1974	4	64.0	1985	19	1970	25	47.2	1976	326	13	.0	.0	28.1	.0	4.1	.0
Dec	55.8	35.9	45.9	81	1991	4	53.3	1971	8	1983	25	34.8	1989	595	1	.0	.0	22.0	.3	12.3	.0
Ann	72.2	51.7	62.0	105	May 1941	29	82.3	Jul 1986	-10	Jan 1985	22	33.2	Jan 1977	2807	1718	.2	35.1	329.0	2.3	51.4	.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

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

Station: BELHAVEN 5 SW, NC

COOP ID: 310674

Climate Division: NC 7

NWS Call Sign:

Elevation: 8 Feet

Lat: 35°30N

Lon: 76°41W

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	4.25	3.88	2.80	1979	3	7.37	1979	1.66	1981	12.5	9.1	3.2	.7	1.93	2.30	2.82	3.24	3.64	4.03	4.45	4.94	5.55	6.47	7.30	
Feb	3.07	3.00	2.52	1960	1	6.26	1983	.70	1991	9.2	6.4	2.4	.6	1.00	1.29	1.72	2.08	2.44	2.80	3.20	3.67	4.27	5.20	6.06	
Mar	4.15	4.01	3.37	1966	1	7.69	1983	1.60	1985	10.6	7.0	3.2	1.2	1.78	2.15	2.68	3.11	3.51	3.92	4.35	4.86	5.49	6.46	7.33	
Apr	3.17	2.75	2.50	1944	12	6.84	1973	.25	1981	8.1	5.9	2.1	.9	.62	.91	1.37	1.80	2.23	2.70	3.22	3.86	4.70	6.05	7.33	
May	4.50	3.85	5.33	1966	26	10.32	1984	.91	1987	10.4	7.2	3.3	1.2	1.13	1.55	2.21	2.79	3.36	3.97	4.64	5.44	6.49	8.14	9.69	
Jun	4.75	4.33	12.41	1962	30	12.69	1995	1.50	1994	9.7	7.1	3.3	1.4	2.03	2.46	3.06	3.55	4.01	4.47	4.97	5.55	6.28	7.38	8.38	
Jul	5.52	5.14	7.76	1950	9	12.07	1984	1.99	1974	11.1	8.3	4.0	1.6	2.26	2.76	3.48	4.06	4.62	5.18	5.78	6.48	7.36	8.71	9.94	
Aug	5.81	4.85	6.00	1995	28	12.60	1986	1.04	1979	11.4	8.4	3.7	1.6	1.49	2.04	2.89	3.63	4.37	5.14	6.00	7.02	8.35	10.46	12.42	
Sep	5.09	4.19	6.80	1938	20	14.11	1999	1.09	1991	8.9	6.4	3.4	1.6	1.11	1.57	2.32	3.00	3.67	4.39	5.20	6.18	7.46	9.50	11.43	
Oct	3.43	2.99	7.73	1971	1	17.17	1971	.17	1984	7.4	4.9	2.1	1.0	.38	.64	1.11	1.59	2.11	2.68	3.35	4.19	5.33	7.22	9.06	
Nov	2.92	2.85	4.35	1969	2	7.96	1985	.72	1973	8.1	5.3	2.2	.6	1.03	1.31	1.71	2.04	2.36	2.69	3.05	3.46	3.99	4.81	5.57	
Dec	3.18	3.22	3.57	1973	9	7.80	1973	.53	1988	10.1	6.4	2.5	.8	.93	1.23	1.69	2.08	2.46	2.86	3.30	3.82	4.49	5.54	6.51	
Ann	49.84	49.00	12.41	Jun 1962	30	17.17	Oct 1971	.17	Oct 1984	117.5	82.4	35.4	13.2	38.97	41.15	43.90	45.95	47.76	49.50	51.27	53.22	55.55	58.91	61.77	

+ 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: 1933-2001

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

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NWS Call Sign:

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Lon: 76°41W

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	1.0	.0	#	0	5.7	1980	31	6.5	1973	5	1973	9	1	1973	.4	.3	.1	@	.0	.4	.1	@	.0
Feb	2.0	.0	#	0	7.4	1973	11	13.0	1979	12	1973	11	1	1980	.6	.4	.4	.2	.0	.6	.4	.2	@
Mar	1.2	.0	#	0	16.4	1980	3	19.0	1980	16	1980	3	2	1980	.2	.2	.1	.1	@	.3	.2	.2	.1
Apr	.2	.0	#	0	4.4	1989	11	4.4	1989	4	1989	11	#	1989	@	@	@	.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	.3	.0	#	0	5.6	1989	24	6.3	2000	5+	2000	3	1	1989	.2	.1	.1	.1	.0	.2	.1	.1	.0
Ann	4.7	.0	N/A	N/A	16.4	Mar 1980	3	19.0	Mar 1980	16	Mar 1980	3	2	Mar 1980	1.4	1.0	.7	.4	@	1.5	.8	.5	.1

+ 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	4/20	4/16	4/13	4/10	4/08	4/05	4/02	3/30	3/26
32	4/10	4/05	4/01	3/29	3/26	3/23	3/20	3/17	3/12
28	3/28	3/23	3/19	3/15	3/12	3/09	3/05	3/01	2/24
24	3/12	3/04	2/26	2/22	2/17	2/13	2/08	2/02	1/26
20	2/28	2/21	2/15	2/11	2/06	2/02	1/28	1/22	1/13
16	2/13	2/04	1/28	1/22	1/15	1/06	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	10/16	10/22	10/26	10/30	11/02	11/05	11/09	11/13	11/19
32	10/26	11/01	11/05	11/08	11/11	11/14	11/18	11/22	11/27
28	11/10	11/16	11/20	11/24	11/27	12/01	12/05	12/09	12/15
24	12/01	12/08	12/12	12/16	12/20	12/23	12/27	1/01	1/07
20	12/11	12/20	12/27	1/01	1/06	1/11	1/17	1/24	2/04
16	12/22	12/31	1/07	1/14	1/21	1/30	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	230	223	217	212	208	203	198	193	185
32	250	243	238	233	229	225	221	216	208
28	281	274	269	264	260	255	251	246	238
24	330	321	315	310	305	300	295	288	280
20	>365	>365	350	341	334	327	320	313	303
16	>365	>365	>365	>365	>365	>365	357	342	328

* 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	670	518	377	134	24	1	0	0	4	158	326	595	2807
60	528	386	241	54	3	0	0	0	0	81	205	452	1950
57	444	309	172	26	0	0	0	0	0	49	146	369	1515
55	390	262	134	14	0	0	0	0	0	33	113	318	1264
50	272	162	61	2	0	0	0	0	0	11	50	209	767
32	32	6	0	0	0	0	0	0	0	0	0	15	53

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	384	413	651	892	1146	1324	1484	1428	1230	935	677	444	11008
55	30	24	72	216	433	634	771	715	540	255	101	34	3825
57	22	16	48	168	371	574	709	653	480	209	74	23	3347
60	13	8	23	106	281	484	616	560	391	148	42	13	2685
65	0	0	5	36	147	335	461	405	245	70	13	1	1718
70	0	0	0	7	55	194	306	250	114	24	2	0	952

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	169	209	393	623	890	1085	1243	1196	1004	703	438	231	169	378	771	1394	2284	3369	4612	5808	6812	7515	7953	8184
45	88	122	262	473	735	935	1088	1041	854	549	300	131	88	210	472	945	1680	2615	3703	4744	5598	6147	6447	6578
50	38	62	152	333	580	785	933	886	704	397	191	65	38	100	252	585	1165	1950	2883	3769	4473	4870	5061	5126
55	11	25	78	212	425	635	778	731	554	256	103	30	11	36	114	326	751	1386	2164	2895	3449	3705	3808	3838
60	0	5	36	112	286	485	623	576	404	141	48	7	0	5	41	153	439	924	1547	2123	2527	2668	2716	2723
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	97	125	229	379	582	756	883	844	693	439	256	131	97	222	451	830	1412	2168	3051	3895	4588	5027	5283	5414

(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