

November 2021 Climate Review

Presented By:

**National Weather Service
Newport/Morehead City, NC**

November 2021 Highlights



Ocean overwash north of Rodanthe on Highway 12 on November 7, 2021.
Image courtesy of the NC Dept. of Transportation.

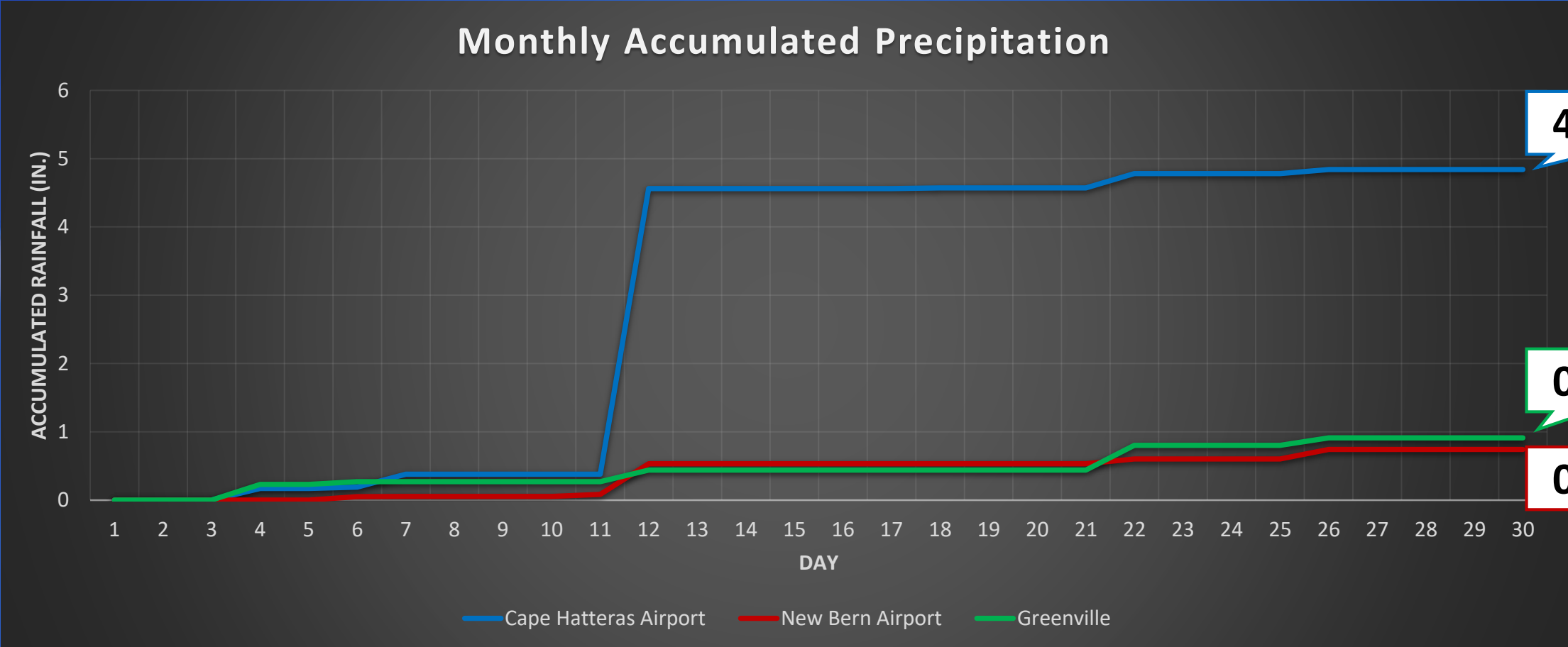
Drought conditions worsened in November 2021 with many locations struggling to pick up an inch of rain – about 2 inches below average. The exception was locales along the Outer Banks, where a coastal storm was responsible for Hatteras seeing a one-day record rainfall.

Temperatures were about 2-3 degrees below average across the board in November. Many clear and calm nights allowed lows to fall 3-5 degrees below average.

Monthly Rankings

| | Average Temp | Total Rainfall |
|-----------------|--------------------------|-------------------------|
| Hatteras | 53 rd Coolest | 43 rd Driest |
| New Bern | 14 th Coolest | 6 th Driest |

November 2021 Rainfall



White diamonds denote missing 24-hour precipitation report. Asterisk denotes total with missing data.

November 2021 Rainfall vs. Climate Normal

| | Observed (In.) | Normal | Difference |
|-------------|----------------|--------|------------|
| Beaufort | 1.78 | 3.99 | ▼ 2.21 |
| Hatteras | 4.84 | 4.76 | ▲ 0.08 |
| New Bern | 0.74 | 3.33 | ▼ 2.59 |
| Greenville | 0.91 | 3.42 | ▼ 2.51 |
| Williamston | 1.42 | 3.39 | ▼ 1.97 |
| Plymouth | 1.25 | 3.57 | ▼ 2.32 |
| Bayboro | 0.98 | 3.93 | ▼ 2.95 |

Red sites have missing data



November 2021 Precipitation: Departure from Normal
 Analysis from the Advanced Hydrologic Prediction Service

Wettest and Driest Novembers

| | Cape Hatteras | Year Observed | New Bern | Year Observed |
|-------------------------|---------------|---------------|----------|---------------|
| Wettest | 16.20" | 1985 | 8.86" | 2009 |
| 2 nd Wettest | 14.63" | 1962 | 8.59" | 1937 |
| 3 rd Wettest | 14.00" | 2008 | 8.16" | 2006 |
| 4 th Wettest | 12.00" | 1977 | 7.68" | 1985 |
| 5 th Wettest | 11.42" | 1932 | 7.62" | 1948 |

| | Cape Hatteras | Year Observed | New Bern | Year Observed |
|------------------------|---------------|---------------|----------|---------------|
| 5 th Driest | 0.79" | 1922 | 0.68" | 2007 |
| 4 th Driest | 0.67" | 1956 | 0.48" | 1933 |
| 3 rd Driest | 0.53" | 1913 | 0.42" | 2017 |
| 2 nd Driest | 0.38" | 1910 | 0.28" | 1973 |
| Driest | 0.25" | 1919 | 0.19" | 1941 |

Average Temperatures: November 2021

| | Average High | Normal High | Difference | Average Low | Normal Low | Difference |
|-------------|--------------|-------------|------------|-------------|------------|------------|
| Beaufort | 63.8 | 65.9 | ▼ 2.1 | 43.8 | 47.1 | ▼ 3.3 |
| Hatteras | 63.9 | 65.8 | ▼ 1.9 | 48.8 | 51.5 | ▼ 2.7 |
| New Bern | 64.1 | 65.6 | ▼ 1.5 | 39.6 | 42.8 | ▼ 3.2 |
| Greenville | 62.8 | 64.2 | ▼ 1.4 | 38.6 | 41.2 | ▼ 2.6 |
| Kinston | 63.3 | 66.7 | ▼ 3.4 | 37.6 | 43.8 | ▼ 6.2 |
| Williamston | 62.8 | 63.1 | ▼ 0.3 | 37.0 | 42.2 | ▼ 5.2 |
| Plymouth | 64.1 | 64.3 | ▼ 0.2 | 39.5 | 42.3 | ▼ 2.8 |
| Bayboro | 64.5 | 64.9 | ▼ 0.4 | 38.9 | 41.7 | ▼ 2.8 |

Red sites have missing data

Temperature Extremes: November 2021

| | Max High | Date Obs. | Min Low | Date Obs. |
|--------------------|----------|-------------------------------------|---------|-------------------------------------|
| Beaufort | 76 | 18 th | 28 | 30 th |
| Hatteras | 74 | 11 th , 18 th | 33 | 24 th , 30 th |
| New Bern | 78 | 18 th | 25 | 30 th |
| Greenville | 79 | 10 th , 18 th | 25 | 24 th |
| Kinston | 79 | 19 th | 25 | 24 th |
| Williamston | 79 | 11 th , 19 th | 25 | 30 th |
| Plymouth | 77 | 18 th | 25 | 24 th , 30 th |
| Bayboro | 78 | 19 th | 27 | 30 th |

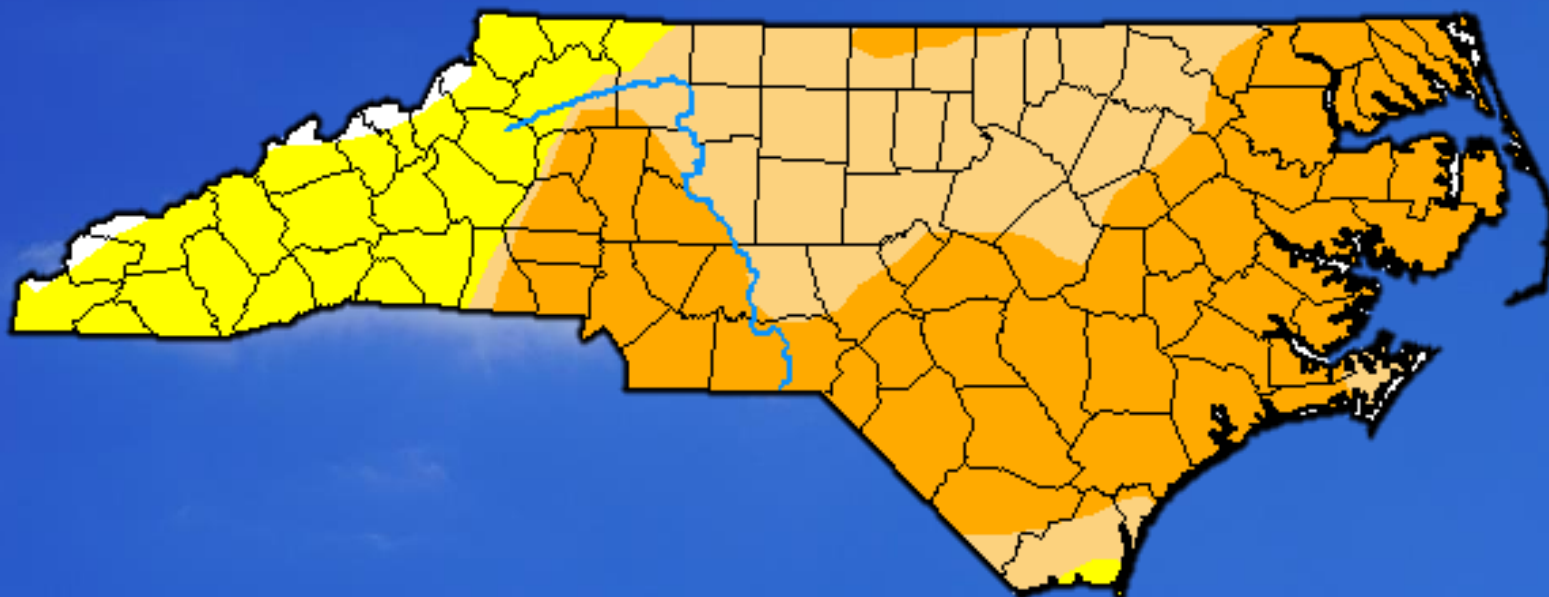
Red sites have missing data

Warmest and Coolest Novembers By Avg. Temp

| | Cape Hatteras | Year Observed | New Bern | Year Observed |
|-------------------------|---------------|---------------|----------|---------------|
| Warmest | 66.6° | 1985 | 64.2° | 1985 |
| 2 nd Warmest | 63.5° | 1948 | 59.9° | 1978 |
| 3 rd Warmest | 62.8° | 2020 | 59.7° | 1948 |
| 4 th Warmest | 62.8° | 1986 | 59.5° | 1946 |
| 5 th Warmest | 62.5° | 1946 | 59.2° | 2015 |

| | Cape Hatteras | Year Observed | New Bern | Year Observed |
|-------------------------|---------------|---------------|----------|---------------|
| 5 th Coolest | 51.4° | 1967 | 50.8° | 1939 |
| 4 th Coolest | 51.3° | 1910 | 50.7° | 2000 |
| 3 rd Coolest | 50.8° | 1903 | 49.8° | 2012 |
| 2 nd Coolest | 49.9° | 1976 | 48.4° | 1967 |
| Coolest | 49.6° | 1901 | 48.1° | 1976 |

Drought Monitor: North Carolina



December 7, 2021

(Released Thursday, Dec. 9, 2021)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

| | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
|--|--------|-------|-------|-------|-------|------|
| Current | 1.27 | 98.73 | 79.46 | 51.24 | 0.00 | 0.00 |
| Last Week <i>11-30-2021</i> | 13.44 | 86.56 | 64.80 | 16.93 | 0.00 | 0.00 |
| 3 Months Ago <i>09-07-2021</i> | 75.74 | 24.26 | 0.00 | 0.00 | 0.00 | 0.00 |
| Start of Calendar Year <i>12-29-2020</i> | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Start of Water Year <i>09-28-2021</i> | 91.27 | 8.73 | 0.00 | 0.00 | 0.00 | 0.00 |
| One Year Ago <i>12-08-2020</i> | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

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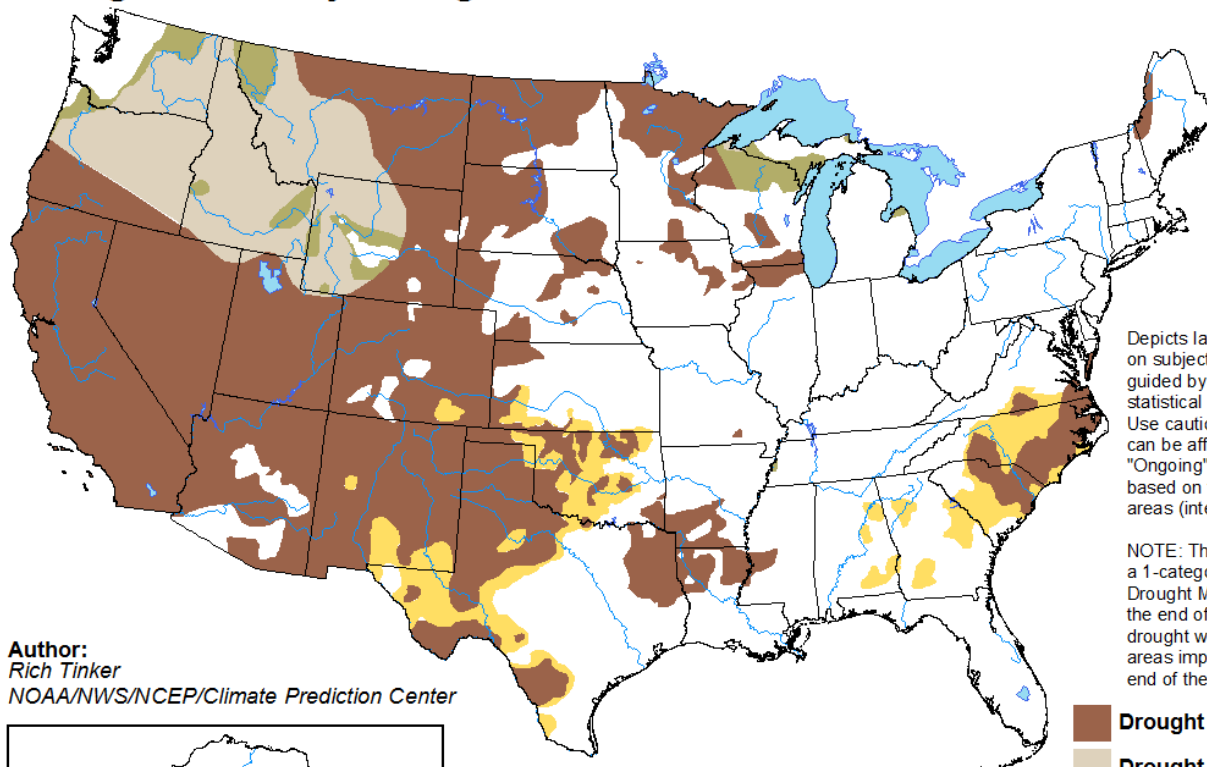


droughtmonitor.unl.edu

Monthly Drought Outlook

U.S. Monthly Drought Outlook Drought Tendency During the Valid Period

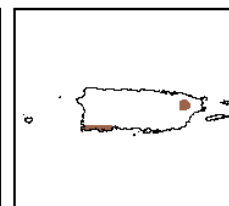
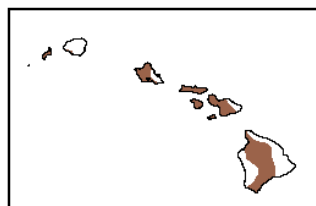
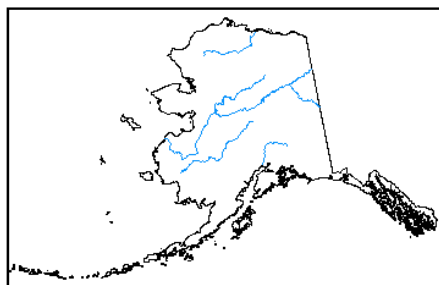
Valid for December 2021
Released November 30, 2021







Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

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-  Drought persists
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely



<http://go.usa.gov/3eZGd>