

September 2021 Highlights



A sundog captured over Jacksonville in early September.

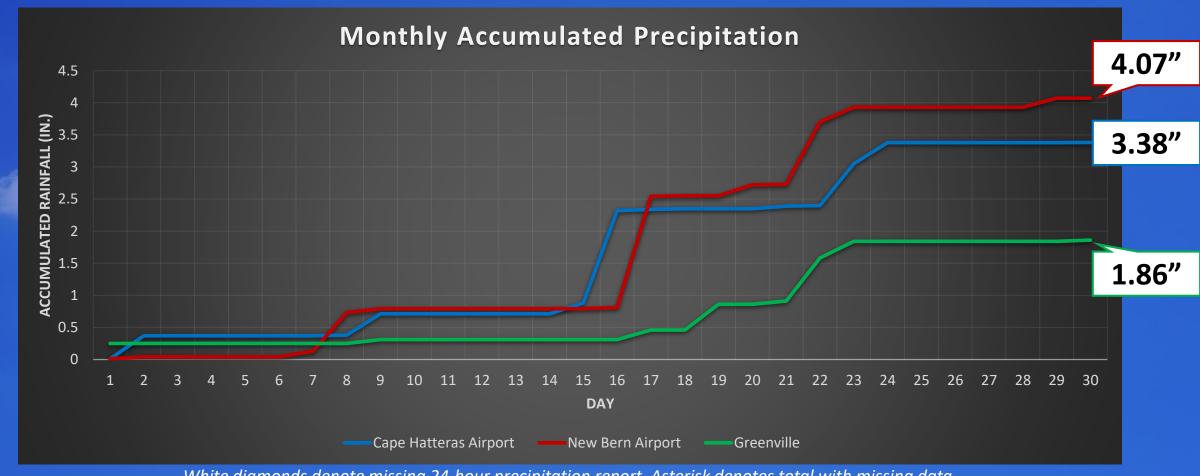
September 2021 saw no direct impacts from tropical cyclones for eastern North Carolina, which contributed to well-below normal rainfall across the area. With few exceptions, most areas saw monthly totals about 4-6 inches below average.

Temperatures across the region were very close to average. The first fall-like airmass intruded into the region late in September introducing lows in the 50s for many.

Monthly Rankings

| | Average Temp | Total Rainfall |
|----------|--------------------------|-------------------------|
| Hatteras | 25 th Warmest | 40 th Driest |
| New Bern | 39 th Coolest | 31 st Driest |

September 2021 Rainfall

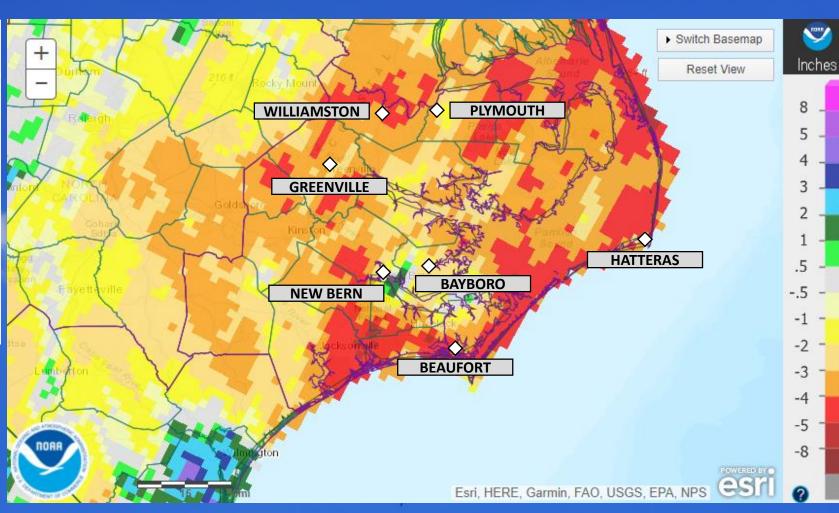


White diamonds denote missing 24-hour precipitation report. Asterisk denotes total with missing data.

September 2021 Rainfall vs. Climate Normal

| | Observed (In.) | Normal | Difference |
|-------------|-------------------|--------|-------------|
| Beaufort | 2.92 | 8.46 | 5.54 |
| Hatteras | 3.38 | 7.63 | 4.25 |
| New Bern | 4.07 | 6.33 | 2.26 |
| Greenville | 1.86 | 7.33 | 5.47 |
| Williamston | 2.10 | 6.92 | 4.82 |
| Plymouth | 1.92 | 6.13 | 4.21 |
| Bayboro | 2.74 | 7.14 | 4.40 |

Red sites have missing data



Wettest and Driest Septembers

| | Cape Hatteras | Year Observed | New Bern | Year Observed |
|-------------------------|---------------|---------------|----------|---------------|
| Wettest | 20.00" | 1989 | 19.43" | 1955 |
| 2 nd Wettest | 17.55" | 1928 | 18.39" | 2018 |
| 3 rd Wettest | 16.43" | 1955 | 16.79" | 2010 |
| 4 th Wettest | 14.96" | 1934 | 14.61" | 1947 |
| 5 th Wettest | 14.23" | 2011 | 13.93" | 1984 |

| | Cape Hatteras | Year Observed | New Bern | Year Observed |
|------------------------|---------------|---------------|----------|---------------|
| 5 th Driest | 0.73" | 1978 | 1.22" | 1951 |
| 4 th Driest | 0.61" | 1899 | 0.98" | 1986 |
| 3 rd Driest | 0.59" | 1990 | 0.87" | 2001 |
| 2 nd Driest | 0.56" | 1900 | 0.71" | 1943 |
| Driest | 0.08" | 1986 | 0.27" | 1941 |

Average Temperatures: September 2021

| | Average High | Normal High | Difference | Average Low | Normal Low | Difference |
|-------------|--------------|-------------|--------------|-------------|------------|------------|
| Beaufort | 82.7 | 82.4 | a 0.3 | 67.9 | 68.4 | 0.5 |
| Hatteras | 83.0 | 83.0 | 0.0 | 69.9 | 70.8 | 0.9 |
| New Bern | 83.7 | 83.1 | ^ 0.6 | 64.5 | 65.2 | 0.7 |
| Greenville | 84.5 | 83.1 | 1.4 | 64.0 | 64.2 | 0.2 |
| Kinston | 84.7 | 83.8 | 1 0.9 | 63.0 | 64.2 | 1.2 |
| Williamston | 84.4 | 81.8 | 2.6 | 62.7 | 64.3 | 1.6 |
| Plymouth | 83.0 | 82.7 | 1 0.3 | 62.5 | 64.0 | 1.5 |
| Bayboro | 83.2 | 83.2 | 0.0 | 61.1 | 63.9 | 2.8 |

Red sites have missing data

Warmest and Coolest Septembers By Avg. Temp

| | Cape Hatteras | Year Observed | New Bern | Year Observed |
|-------------------------|---------------|---------------|----------|---------------|
| Warmest | 81.4° | 2018 | 79.9° | 1933 |
| 2 nd Warmest | 79.2° | 1933 | 78.4° | 2018 |
| 3 rd Warmest | 78.5° | 2016 | 78.3° | 1945 |
| 4 th Warmest | 78.4° | 1930 | 77.6° | 1980 |
| 5 th Warmest | 78.3° | 1945 | 77.5° | 1936 |

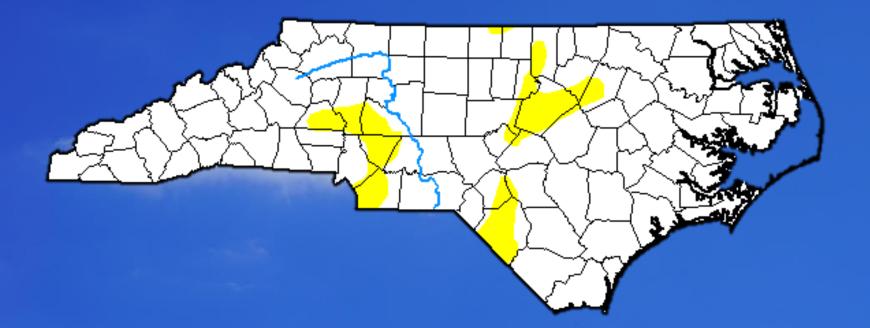
| | Cape Hatteras | Year Observed | New Bern | Year Observed |
|-------------------------|---------------|---------------|----------|---------------|
| 5 th Coolest | 71.6° | 1918 | 71.0° | 1966 |
| 4 th Coolest | 71.5° | 1917 | 70.8° | 2006 |
| 3 rd Coolest | 71.5° | 1981 | 70.7° | 2001 |
| 2 nd Coolest | 70.5° | 1963 | 68.2° | 1963 |
| Coolest | 68.8° | 1967 | 67.4° | 1967 |

Temperature Extremes: September 2021

| | Max High | Date Obs. | Min Low | Date Obs. |
|-------------|----------|---------------------------------------|---------|---------------------|
| Beaufort | 88 | 1 st | 56 | 27 th |
| Hatteras | 89 | 15 th , 22 nd | 55 | 27 th |
| New Bern | 90 | 6 th | 53 | 27 th |
| Greenville | 91 | 8 th , 14-15 th | 53 | 27 th |
| Kinston | 92 | 1 st | 51 | 27 th |
| Williamston | 93 | 1 st | 51 | 27 th |
| Plymouth | 90 | 1 st | 51 | 27 th |
| Bayboro | 91 | 1 st | 49 | 27-28 th |

Red sites have missing data

Drought Monitor: North Carolina



September 28, 2021

(Released Thursday, Sep. 30, 2021)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

| | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
|---|--------|-------|-------|-------|-------|------|
| Current | 91.27 | 8.73 | 0.00 | 0.00 | 0.00 | 0.00 |
| Last Week 09-21-2021 | 77.77 | 22.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 Month's Ago 06-29-2021 | 45.20 | 54.80 | 4.54 | 0.00 | 0.00 | 0.00 |
| Start of Calendar Year 12-29-2020 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Start of Water Year 09-29-2020 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| One Year Ago 09-29-2020 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Intensity:

None D2 Severe Drought
D0 Abnormally Dry D3 Extreme Drought
D1 Moderate Drought
D4 Exceptional Drought

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

