

September 2019 Climate Review

Presented By:

National Weather Service
Newport/Morehead City, NC

September 2019 Summary

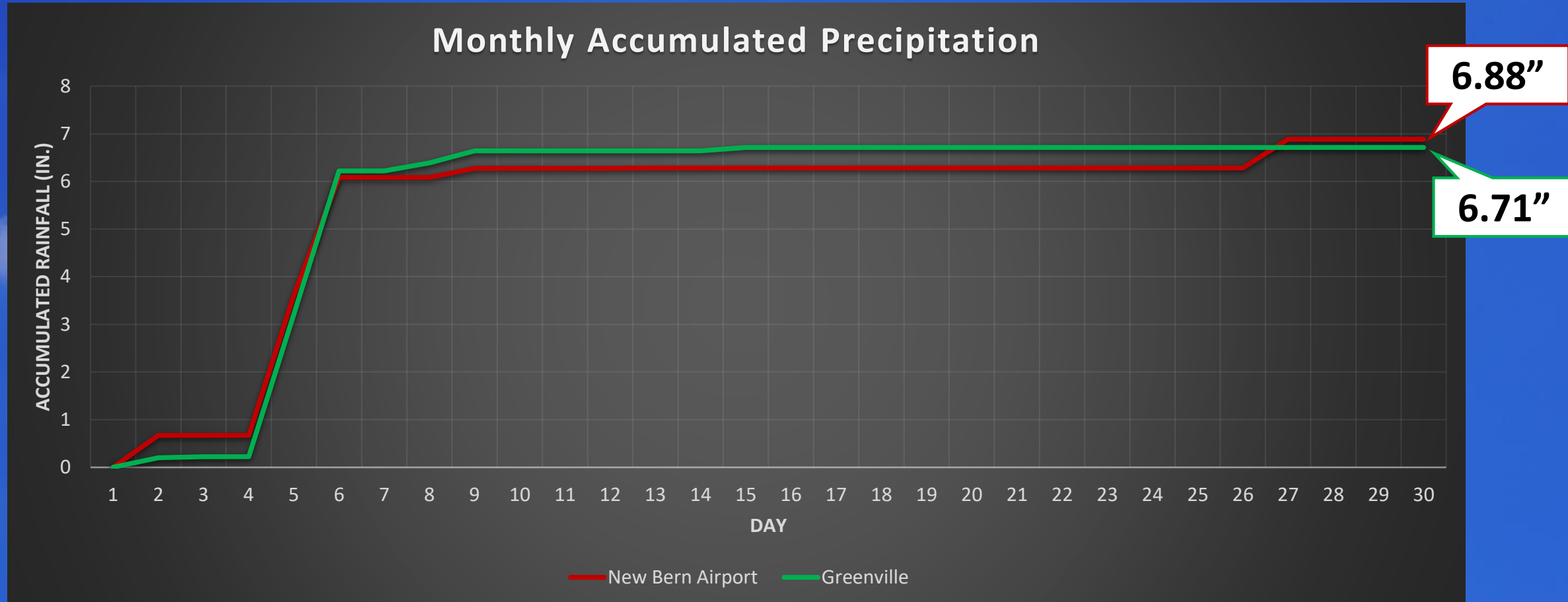


Hurricane Dorian makes landfall over Cape Hatteras at 8:35 am on Friday, September 6, 2019.

September 2019 featured Hurricane Dorian at the beginning of the month, followed by an unusually long dry and warm spell on the heels of October. Dorian brought anywhere from 3 to 8 inches of rain to Eastern NC, but despite this many spots only saw slightly above average or even below average rainfall for the month thanks to a long dry spell to close out the period.

Temperatures dipped below normal in the middle of September as cooler air in the wake of Hurricane Humberto dove southward. This quickly gave way to a sprawling ridge and heat dome at the end of the month letting daily temperatures climb to nearly 10 degrees above normal. Monthly temperature averages were about 2-4 degrees above normal.

September 2019 Rainfall



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

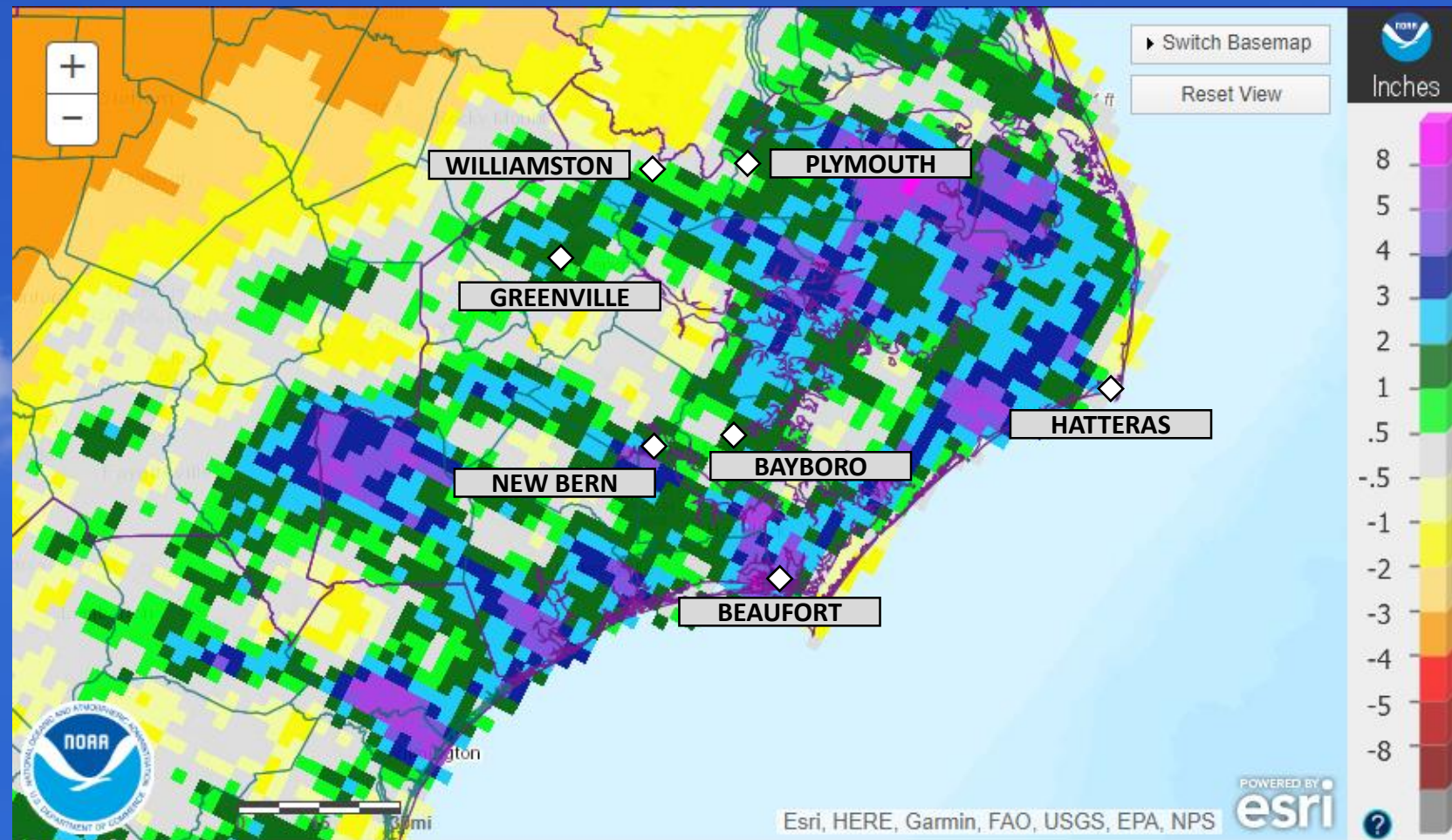
Due to excessive outages due to Hurricane Dorian, Cape Hatteras data has been omitted for this month's summary.

September 2019 Rainfall vs. Climate Normal

	Observed (In.)	Normal	Difference
Beaufort	8.09	5.96	▲ 2.13
Hatteras	--	--	--
New Bern	6.88	5.89	▲ 0.99
Greenville	6.71	5.83	▲ 0.88
Williamston	6.50	6.07	▲ 0.43
Plymouth	8.61	5.39	▲ 3.22
Bayboro	4.52	5.88	▼ 1.36

Red sites have missing data

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September 2019 Precipitation: Departure from Normal
 Analysis from the Advanced Hydrologic Prediction Service

Average Temperatures: September 2019

	Average High	Normal High	Difference	Average Low	Normal Low	Difference
Beaufort	84.4	80.9	▲ 3.5	70.6	68.0	▲ 2.6
Hatteras	--	--	--	--	--	--
New Bern	86.1	82.9	▲ 3.2	67.4	64.9	▲ 2.5
Greenville	86.5	82.9	▲ 3.6	67.7	62.9	▲ 4.8
Kinston	87.0	84.4	▲ 2.6	66.4	63.6	▲ 2.8
Williamston	84.6	81.8	▲ 2.8	67.0	61.1	▲ 5.9
Plymouth	85.7	82.7	▲ 3.0	66.3	62.9	▲ 3.4
Bayboro	85.2	83.2	▲ 2.0	65.4	63.9	▲ 1.5

Red sites have missing data

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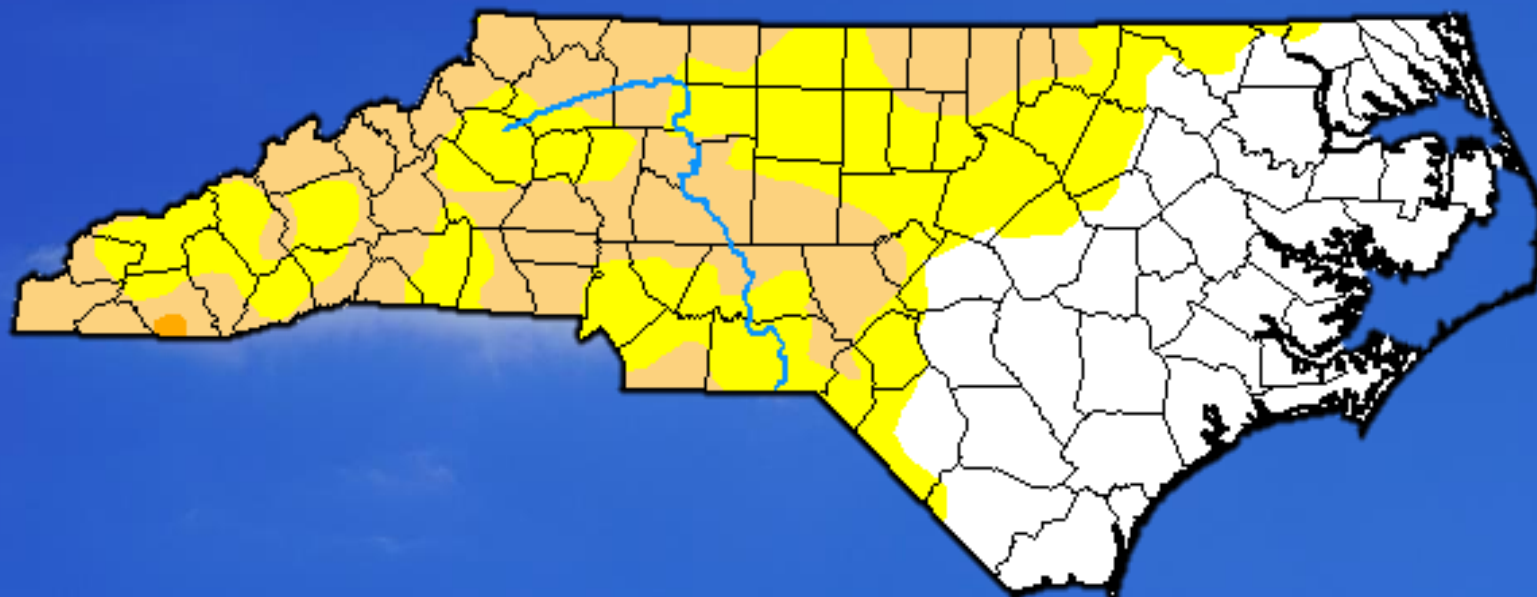
Temperature Extremes: September 2019

	Max High	Date Obs.	Min Low	Date Obs.
Beaufort	91	29 th	58	21 st
Hatteras	--	--	--	--
New Bern	93	29 th	55	21 st
Greenville	94	29 th	52	20 th
Kinston	94	30 th	53	20 th
Williamston	92	30 th	53	20 th
Plymouth	92	29 th , 30 th	52	20 th
Bayboro	93	30 th	53	21 st

Red sites have missing data

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Drought Monitor: North Carolina



September 24, 2019
 (Released Thursday, Sep. 26, 2019)
 Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	39.12	60.88	28.83	0.16	0.00	0.00
Last Week <i>09-17-2019</i>	56.58	43.42	0.29	0.00	0.00	0.00
3 Months Ago <i>06-25-2019</i>	69.61	30.39	10.49	0.00	0.00	0.00
Start of Calendar Year <i>01-01-2019</i>	100.00	0.00	0.00	0.00	0.00	0.00
Start of Water Year <i>09-25-2018</i>	100.00	0.00	0.00	0.00	0.00	0.00
One Year Ago <i>09-25-2018</i>	100.00	0.00	0.00	0.00	0.00	0.00

Intensity:

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

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:

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 U. S. Department of Agriculture

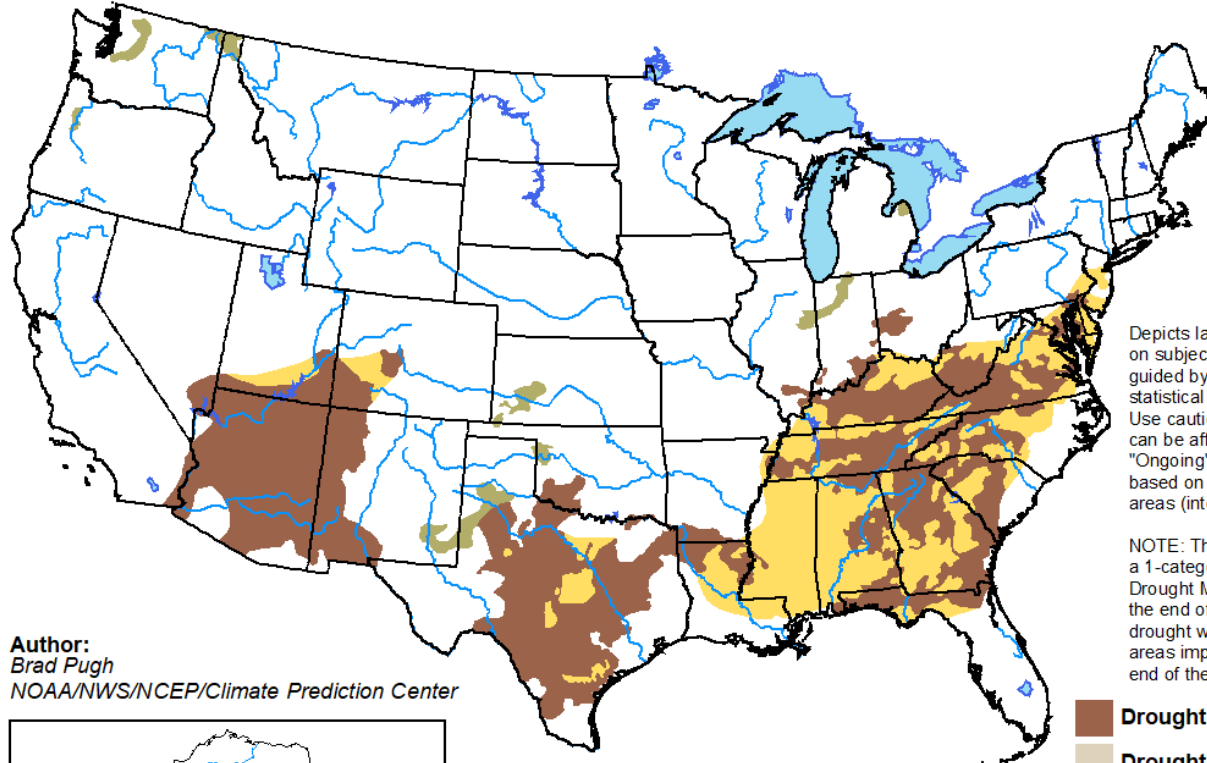


droughtmonitor.unl.edu

Monthly Drought Outlook

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

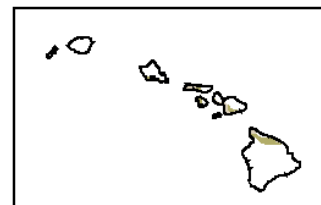
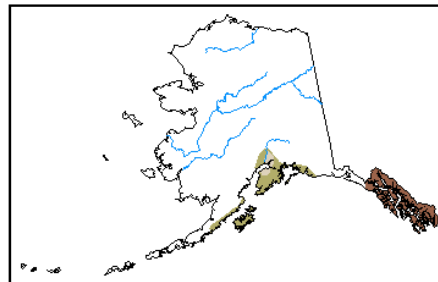
Valid for October 2019
Released September 30, 2019







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).

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



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