

Climate Review for the month September 2017

Presented by:
National Weather Service
Newport/Morehead City

September 2017 Summary

September 2017 was warm, but mostly dry across eastern North Carolina. The warmest temperatures actually occurred late in the month with 92 degrees in New Bern and 91 degrees in Beaufort on the 28th. The coolest readings occurred on September 8th, when most areas dropped into the low/mid 50s. Rainfall generally averaged between 4 and 8 inches and was below normal over all but the far western Coastal Plains and portions of the Outer Banks, which had some impacts from Hurricanes Jose and Maria. Hurricane Maria passed by well east of the Outer Banks on September 26, producing coastal flooding.



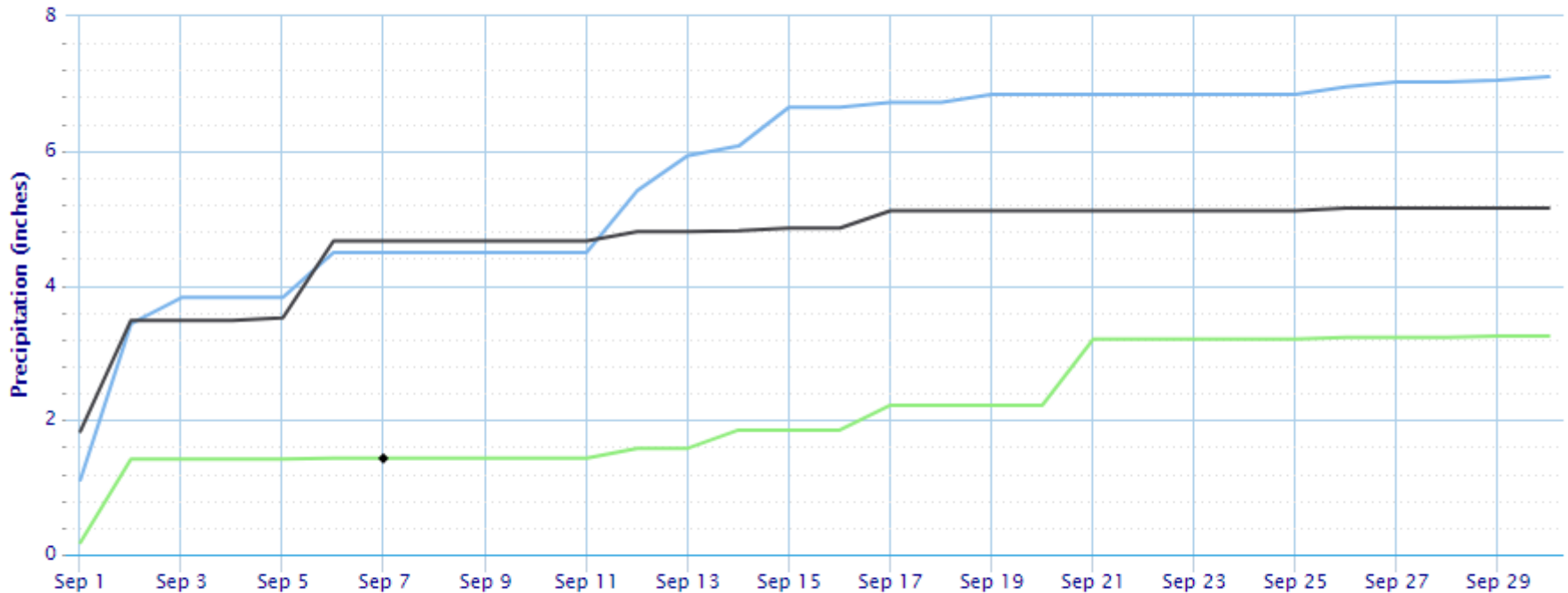
Flooding from Hurricane Maria on the Outer Banks, September 26, 2017. Photo from Associated Press.

DISCLAIMER : The climate data provided are preliminary and have not undergone final quality control by NCDC. Therefore...this data is subject to revision.

September 2017 Precipitation

Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



(Click to hide/show lines)

— CAPE HATTERAS - BILLY MITCHELL, NC:Precip — BEAUFORT MICHAEL J SMITH FLD, NC:Precip — NEW BERN CRAVEN CO AP, NC:Precip

Rainfall was generally below normal in September, with only the far western Coastal Plains and portions of the Outer Banks above normal.

Average Temperatures within our CWA in September 2017

	Avg Max	Avg_Max Normal	Avg_Min	Avg_Min Normal
Beaufort	82.7	80.9	69.0	68.0
Cape Hatteras	82.0	79.9	70.6	69.0
New Bern	83.8	82.9	66.3	64.9
Greenville	83.2	82.9	64.9	62.9
Kinston	84.1	84.4	65.1	63.6
Williamston	81.5	81.8	64.4	61.1
Plymouth	82.6	82.7	65.0	62.9
Bayboro	82.9	83.2	64.9	63.9

Temperatures in September 2017 were above normal at most locations.

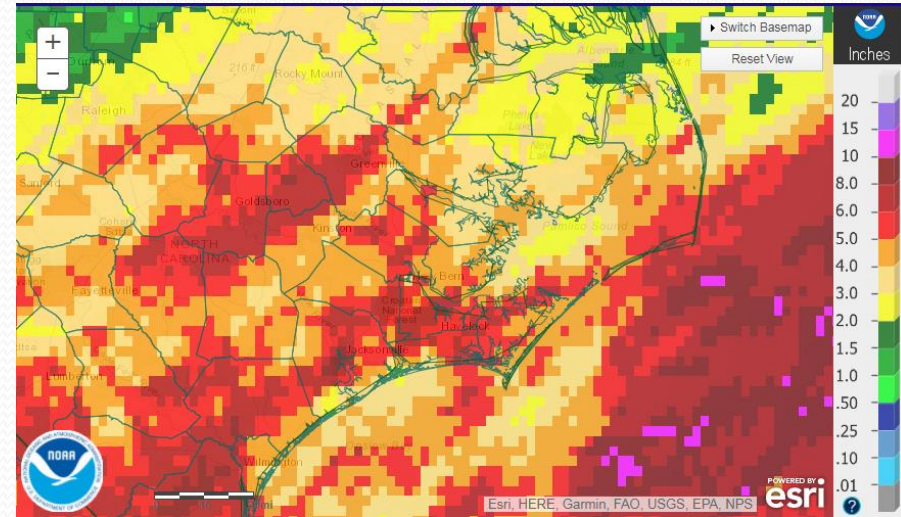
Temperature Extremes within our CWA in September 2017.

	MAX	MIN
Beaufort	91	58
Cape Hatteras	89	59
New Bern	92	56
Greenville	90	54
Kinston	90	54
Williamston	89	54
Plymouth	88	53
Bayboro	90	54

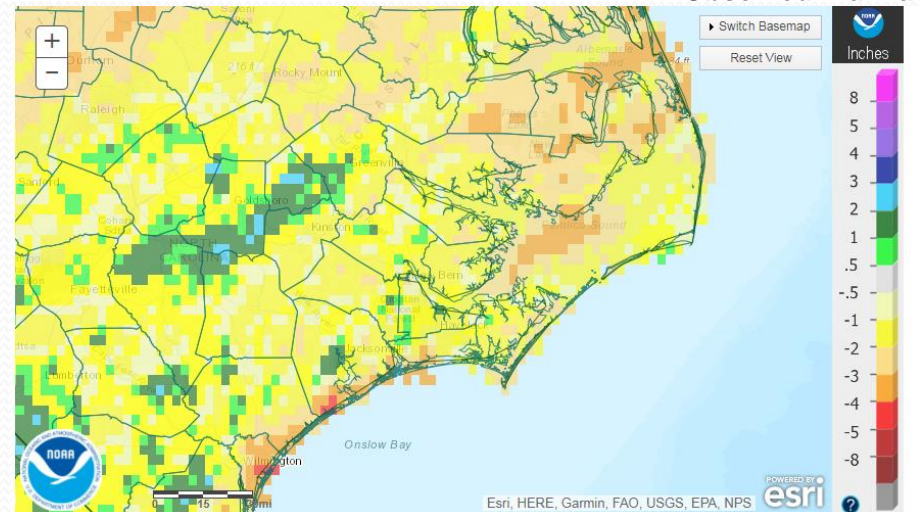
September 2017 Rain Versus Climate Normal

	Precipitation (inches)	Normal	Difference
Beaufort	5.15	5.96	-0.81
Cape Hatteras	7.10	6.25	0.85
New Bern	3.25	5.89	-2.64
Greenville	4.82	5.83	-1.01
Williamston	4.32	6.07	-1.75
Plymouth	4.16	5.39	-1.23
Bayboro	4.43	5.88	-1.45

Rainfall across eastern NC in September 2017 ranged between 4 and 8 inches in almost all locations. Most areas, except for the far western Coastal Plains and portions of the Outer Banks, were below normal.



Observed Rainfall



Departure from Normal







Latest Drought Monitor for North Carolina

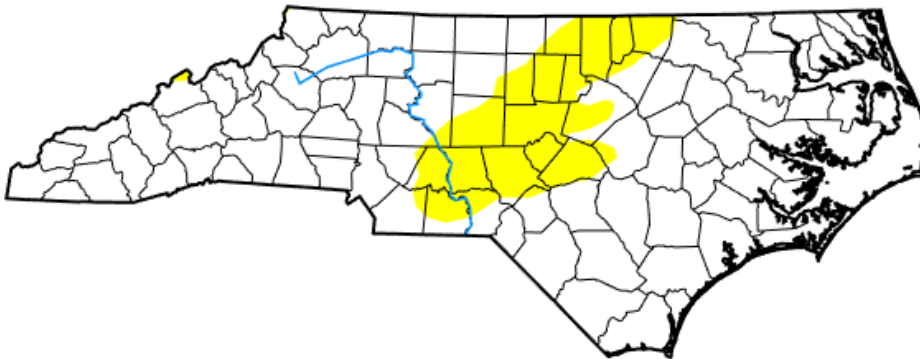
North Carolina

Map released: Thurs. September 28, 2017

Data valid: September 26, 2017 at 8 a.m. EDT

Intensity:

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



Author(s):

[Brad Rippey](#), U.S. Department of Agriculture

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

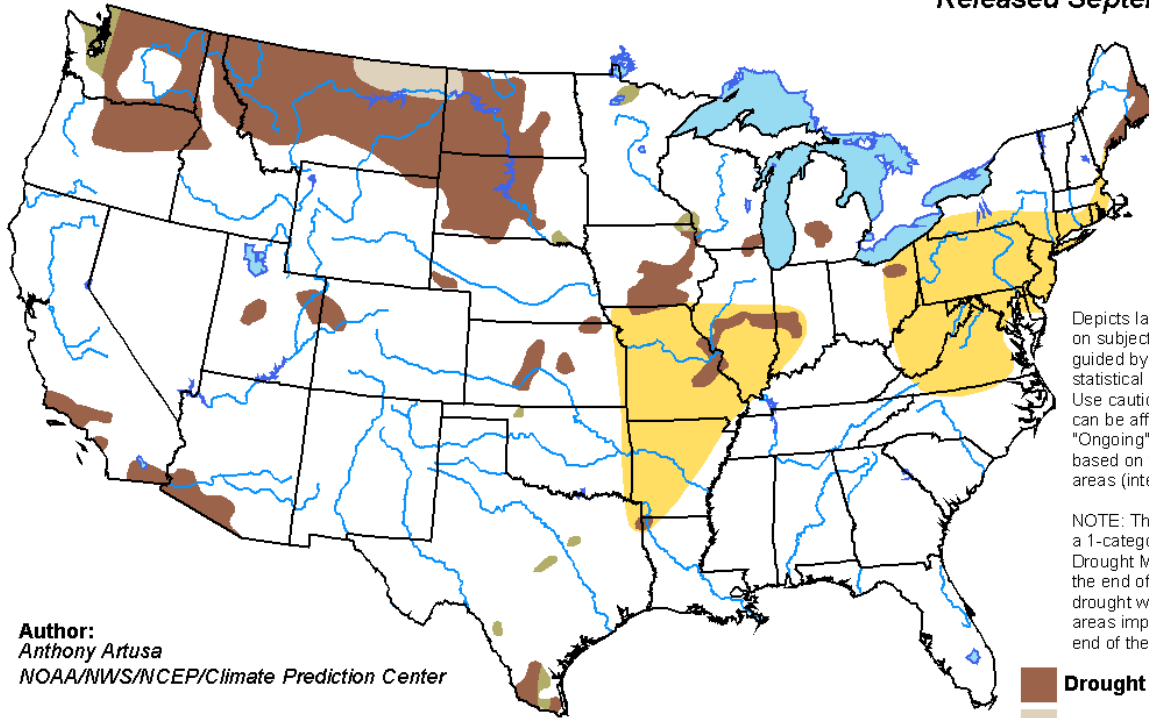
Abnormally dry conditions continue over the central Piedmont Region of North Carolina.

Monthly Drought Outlook

For October

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

Valid for October 2017
Released September 30, 2017

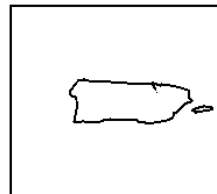
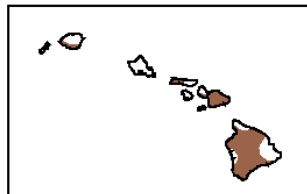
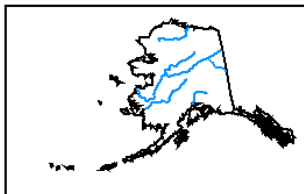


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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