

# Climate Review for the month of July 2014

Presented by:  
National Weather Service  
Newport/Morehead City

# Summary

July was not your typical July in North Carolina. It was a cool and wet month as an upper level trough dominated the eastern half of the country. This caused the average temperatures across eastern NC to be 3 degrees below normal. Average max temperatures were in the mid 80s when typically they should be in the upper 80s. Average low temperatures were near normal, ranging in the upper 60s to low 70s. Several stationary fronts became stalled across the area which resulted in above normal rainfall amounts across our area. Several locations have seen rainfall totals up to 10 inches. The area continues to remain drought-free.

North Carolina had the earliest land falling hurricane on record. Hurricane Arthur (category two) made landfall on the east end of Shackleford Banks at 11:15 pm, July 3. The strongest winds were on the east side of the hurricane with the highest wind gust reported of 101 mph at Cape Lookout with widespread power outages throughout coastal eastern NC. The full report of Hurricane Arthur can be found on :<http://www.weather.gov/mhx/Arthur>.

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

# Average Temperatures within our CWA

	Avg_Max	Avg_Max Normal	Avg_Min	Avg_Min Normal
<b>Beaufort</b>	85.2	na	73.3	na
<b>Cape Hatteras</b>	85.7	84.6	73.8	73.6
<b>New Bern</b>	88.9	89.5	71.6	71.6
<b>Greenville</b>	87.3	89.9	68.7	70.7
<b>Kinston</b>	87.3	91.0	68.1	71
<b>Williamston</b>	86.3	88.6	69.3	68.9
<b>Plymouth</b>	87.1	89.4	68.6	70
<b>Bayboro</b>	87.5	89.3	68.2	71.4

Average temperatures were 3 degrees below normal.

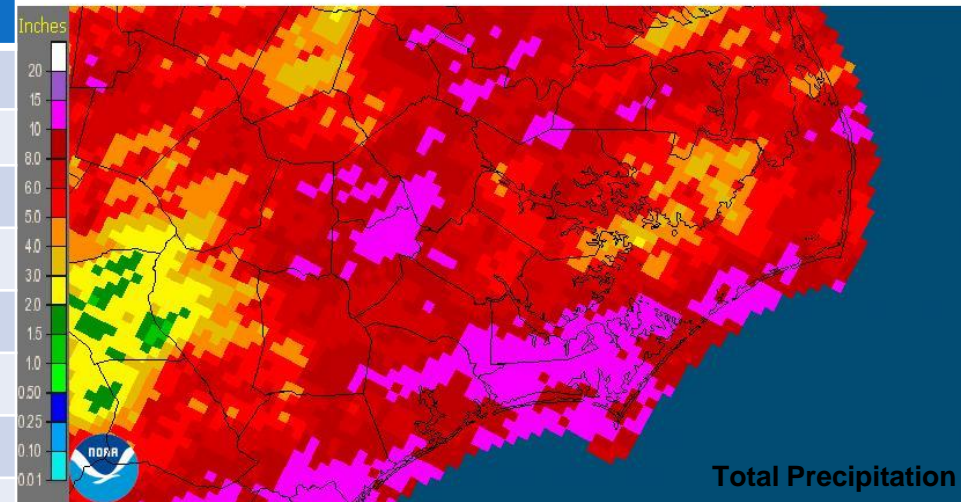
# Max and Min Temperature within our CWA.

	MAX	MIN
Beaufort	89	63
Cape Hatteras	93	61
New Bern	95	61
Greenville	97	59
Kinston AG	94	58
Williamston	93	59
Plymouth	94	57
Bayboro	94	58

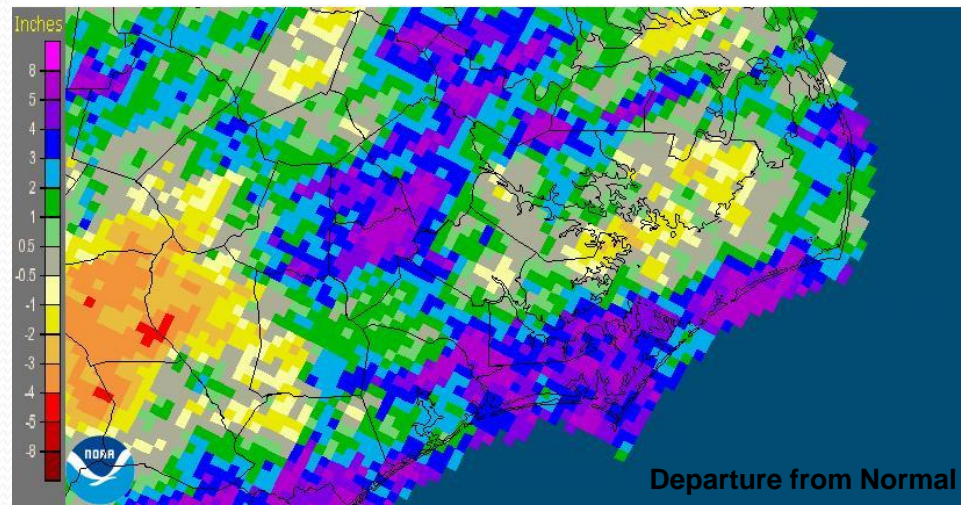
# July's Rain versus Climate Normal

	Precipitation (inches)	Normal	Differences
Beaufort	7.99	na	na
Cape Hatteras	6.5	4.99	1.51
New Bern	6.51	6.17	0.34
Greenville	9.06	5.39	3.67
Kinston	8.43	5.58	2.85
Williamston	7.08	5.29	1.79
Plymouth	6.85	5.34	1.51
Bayboro	7.15	6.27	0.88

Newport/Morehead City, NC (MHX): July, 2014 Monthly Observed Precipitation  
Valid at 8/1/2014 1200 UTC- Created 8/3/14 23:56 UTC



Newport/Morehead City, NC (MHX): July, 2014 Monthly Departure from Normal Precipitation  
Valid at 8/1/2014 1200 UTC- Created 8/3/14 23:56 UTC

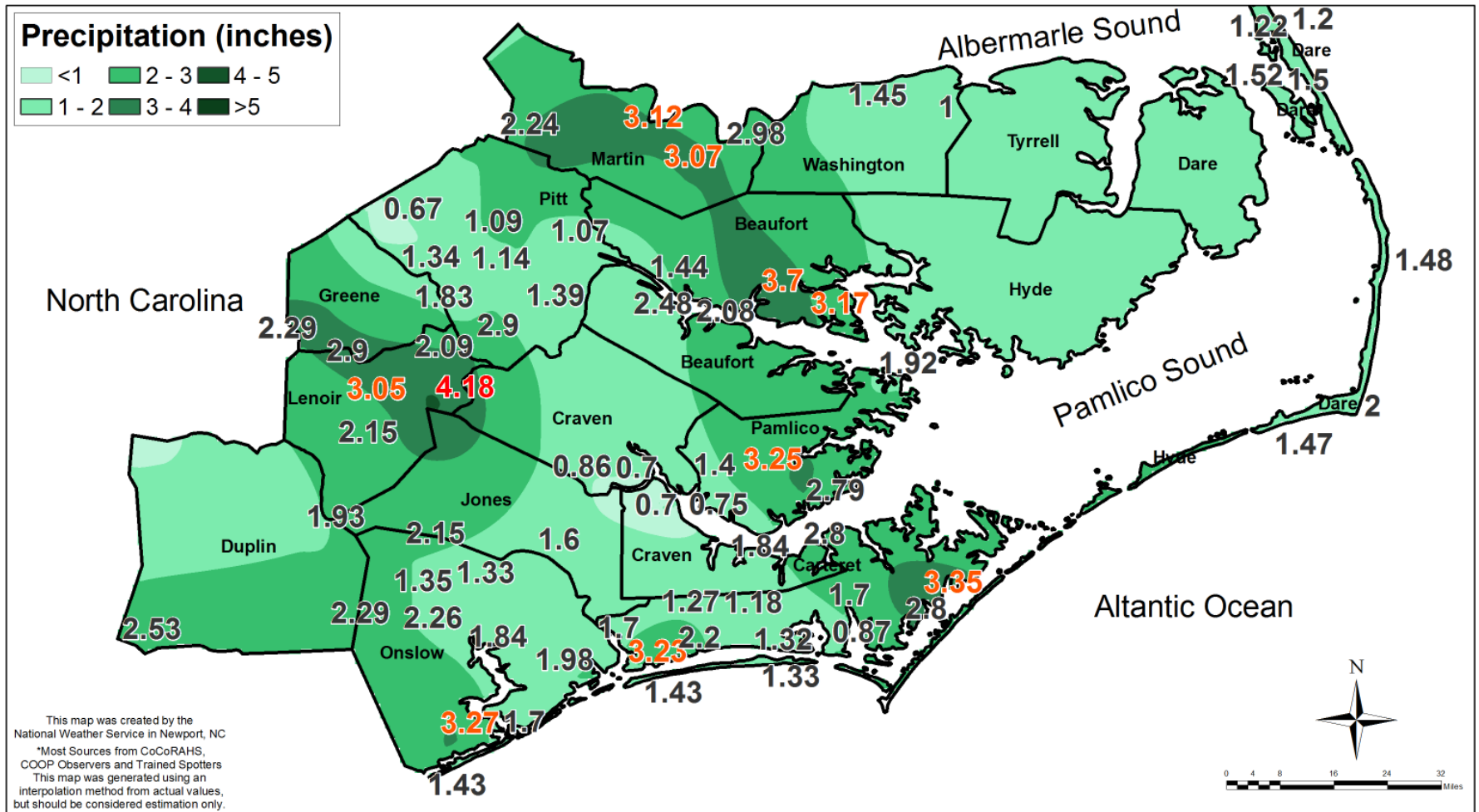


Most of eastern NC received above normal rainfall amounts with several locations receiving up to 10 inches.

# Hurricane Arthur Total Rainfall



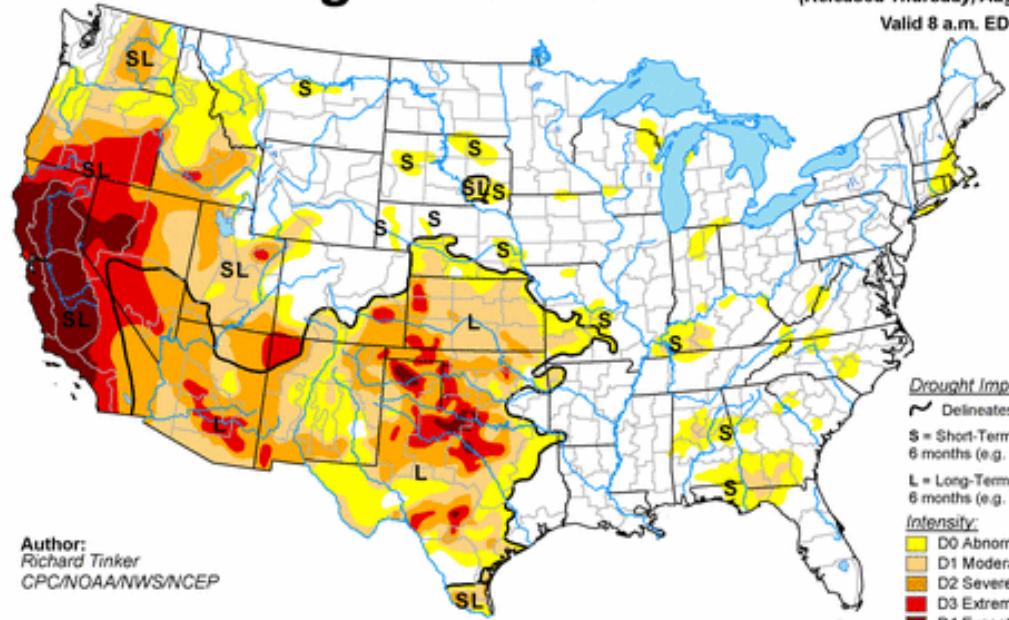
## National Weather Service Newport/Morehead City NC Hurricane Arthur: July 3rd - July 4th





# U.S. Drought Monitor

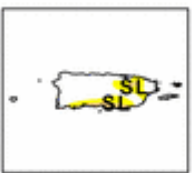
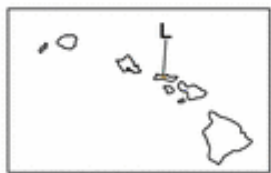
August 12, 2014  
 (Released Thursday, Aug. 14, 2014)  
 Valid 8 a.m. EDT



Author:  
 Richard Tinker  
 CPC/NOAA/NWS/NCEP

- Drought Impact Types:**
- ~ Delineates dominant impacts
  - S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
  - L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)
- Intensity:**
- Yellow: D0 Abnormally Dry
  - Light Orange: D1 Moderate Drought
  - Orange: D2 Severe Drought
  - Red: D3 Extreme Drought
  - Dark Red: D4 Exceptional Drought

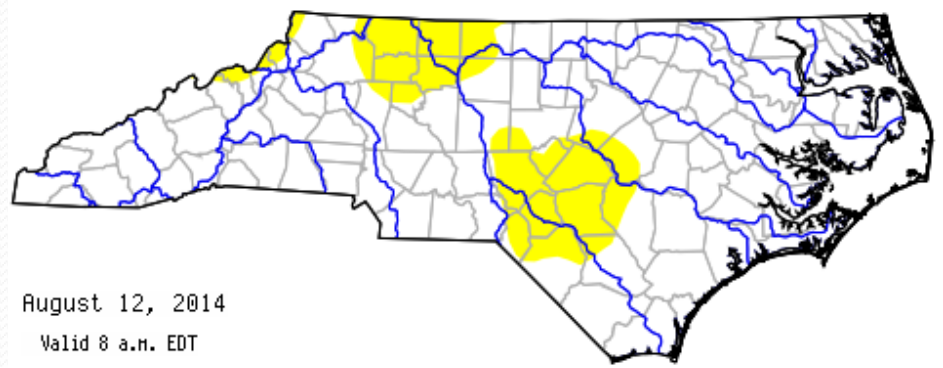
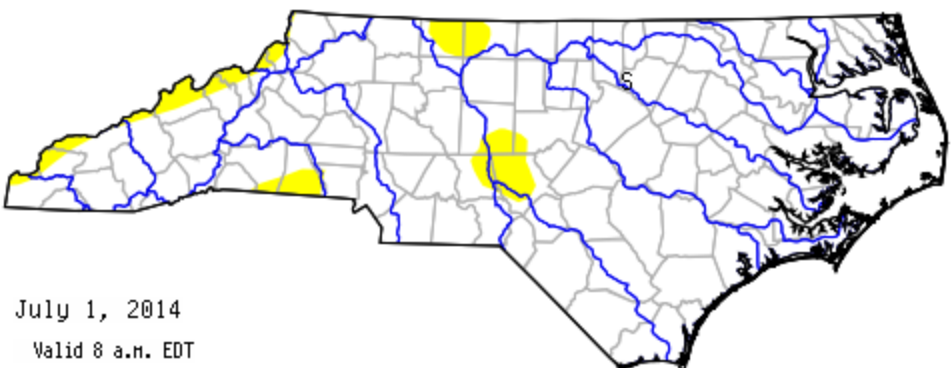
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



<http://droughtmonitor.unl.edu/>

Before

Now



July 1, 2014  
 Valid 8 a.m. EDT

August 12, 2014  
 Valid 8 a.m. EDT

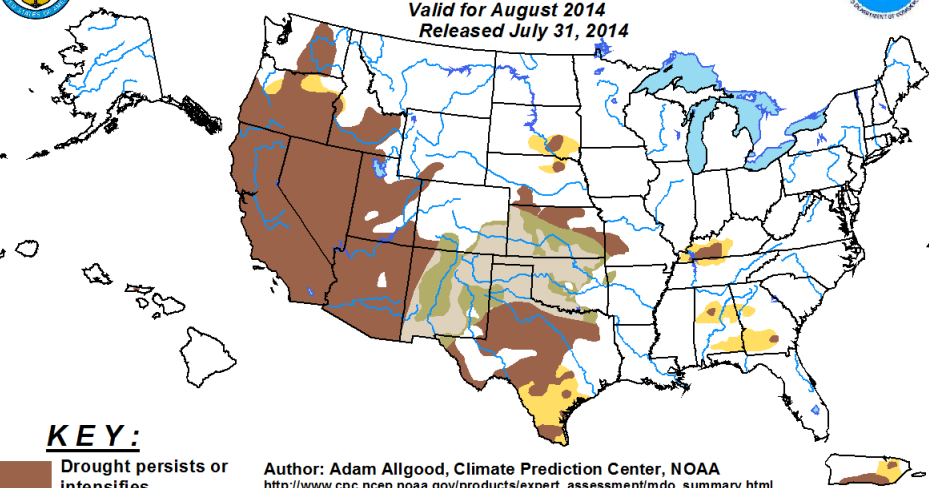


# U.S. Monthly Drought Outlook





Drought Tendency During the Valid Period

Valid for August 2014

Released July 31, 2014



## KEY:

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

Author: Adam Allgood, Climate Prediction Center, NOAA  
[http://www.cpc.ncep.noaa.gov/products/expert\\_assessment/mdo\\_summary.html](http://www.cpc.ncep.noaa.gov/products/expert_assessment/mdo_summary.html)

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor.

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)

## Monthly Drought Outlook



## Seasonal Drought Outlook

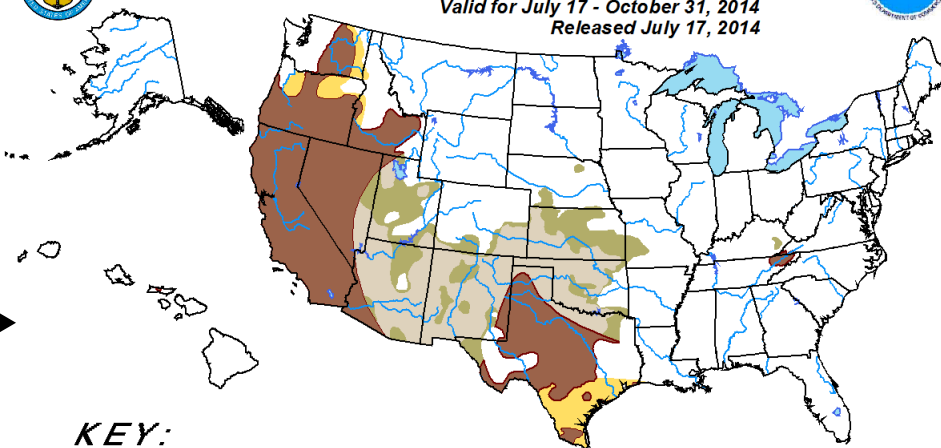


# U.S. Seasonal Drought Outlook





Drought Tendency During the Valid Period

Valid for July 17 - October 31, 2014

Released July 17, 2014



## KEY:

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

Author: Adam Allgood, Climate Prediction Center, NOAA  
[http://www.cpc.ncep.noaa.gov/products/expert\\_assessment/season\\_drought.html](http://www.cpc.ncep.noaa.gov/products/expert_assessment/season_drought.html)

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor.

NOTE: The tan area 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)