

Climate Review for the month of August 2012

Presented by:
National Weather Service
Newport/Morehead City

Summary

August was a warm and wet month with a dominating trough over the region. During the month there were a series of shortwaves associated with the upper level trough along with several cold fronts that crossed our area. A few of the cold fronts became stationary over our CWA, but towards the end of the month there was a stationary front that became somewhat permanent across the area bringing large amounts of precipitation. Average temperatures were near-normal, with maximum temperatures in the low to mid 80s while low temperatures were in the low to mid 70s.

These series of shortwaves and cold/stationary fronts across our region combined to create above normal precipitation. Rainfall amounts of 5 to 16 inches were reported across the CWA from our COOP, ASOS, and CoCoRaHS observers. Given the recent rainfall amounts in Eastern NC, our CWA is completely out of any drought designations.

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
Beaufort	84.7	na	74.1	na
Cape Hatteras	85.4	84.1	74.4	72.9
New Bern	87.1	87.9	71.3	70.4
Greenville	86.6	88.3	70.8	69.2
Kinston AG	86.4	89.6	71.1	69.3
Williamston	86.3	87.3	70.2	67.5
Plymouth	86.6	87.8	69.9	68.6
Bayboro	85.7	88	69.4	70

Average temperatures were near normal compared to July's hot temperatures.

Max and Min Temperature within our CWA

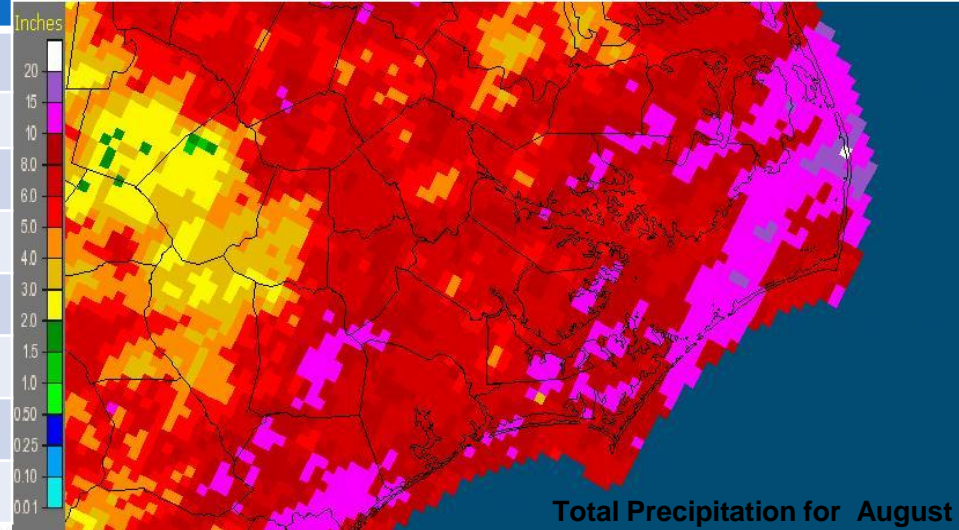
	MAX	MIN
Beaufort	89	68
Cape Hatteras	90	70
New Bern	92	66
Greenville	91	63
Kinston AG	90	62
Williamston	91	64
Plymouth	91	66
Bayboro	90	66

Max temperatures were not as high as July.

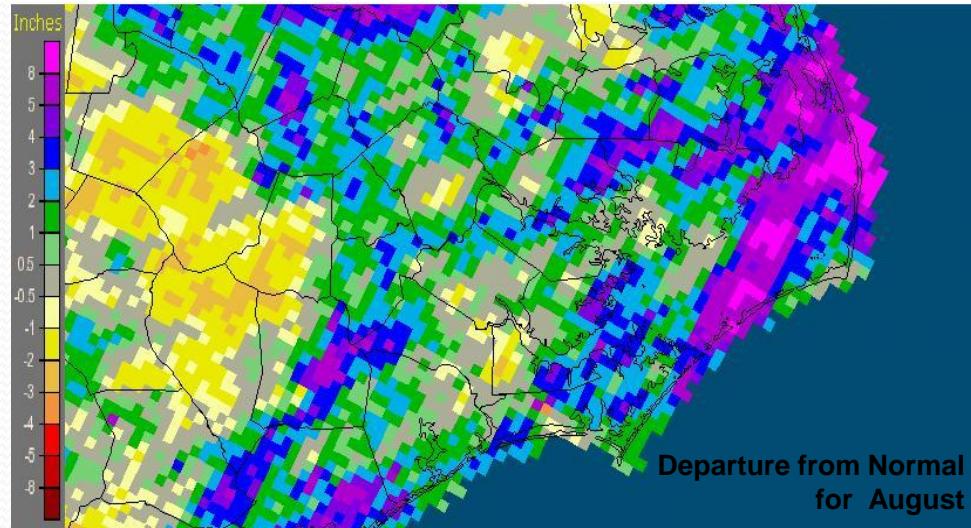
August's Rain versus Normal

	Precipitation (inches)	Normal	Differences
Beaufort	10.03	na	na
Cape Hatteras	5.35	6.93	-1.58
New Bern	7.18	6.65	0.53
Greenville	6.53	6.14	0.39
Kinston AG	9.97	5.41	4.56
Williamston	3.47	5.54	-2.07
Plymouth	5.66	6.28	-0.62
Bayboro	9.26	7.25	2.01

Newport/Morehead City, NC (MHX): August, 2012 Monthly Observed Precipitation
Valid at 9/1/2012 1200 UTC- Created 9/1/12 23:42 UTC



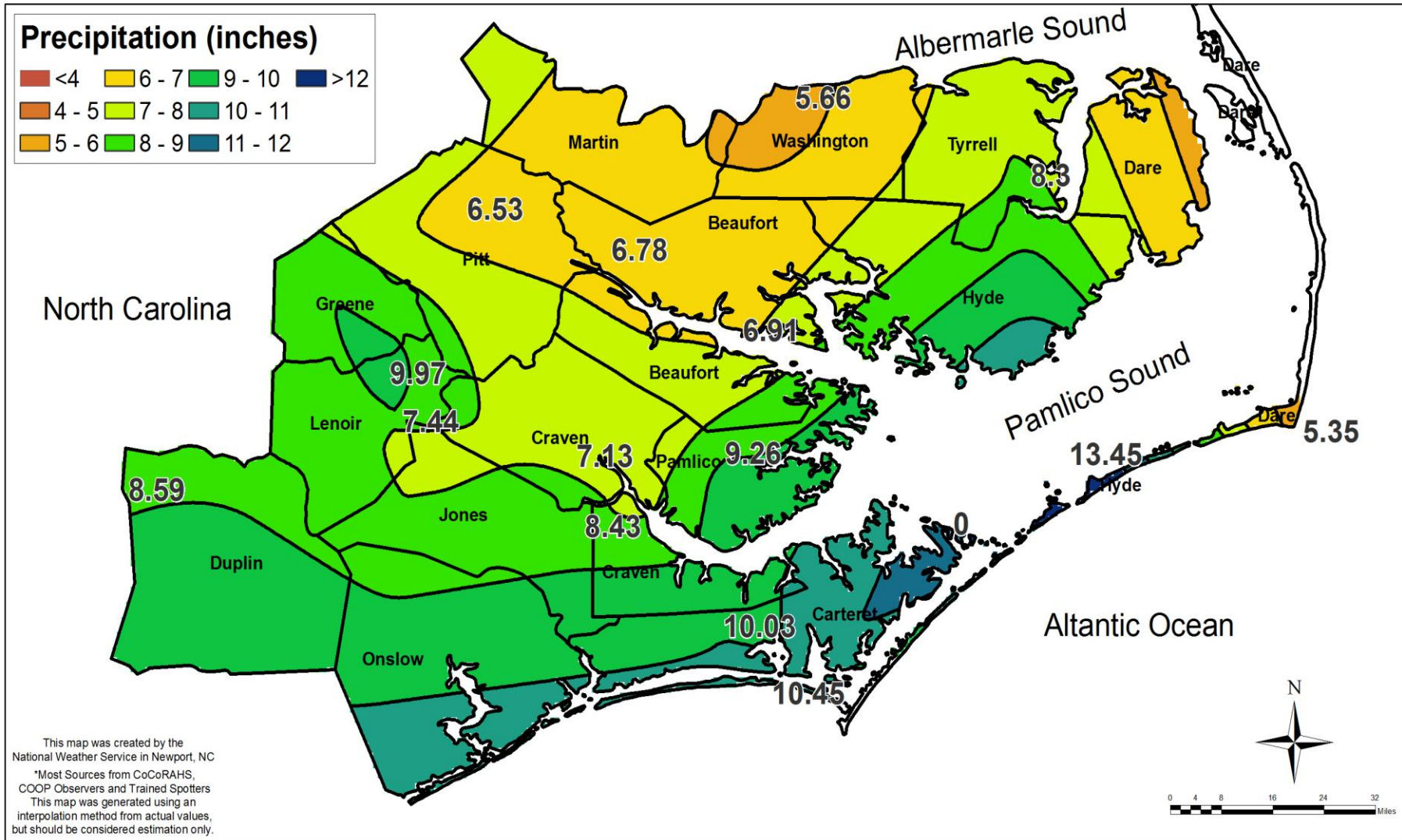
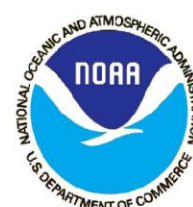
Newport/Morehead City, NC (MHX): August, 2012 Monthly Departure from Normal Precipitation
Valid at 9/1/2012 1200 UTC- Created 9/1/12 23:44 UTC



A good amount of rain fell in August, especially across Eastern NC. According to the departure from normal map there are a few locations that did not receive that much rain.



National Weather Service Newport/Morehead City NC August 2012



Monthly Rainfall total amounts are from COOP Observers and ASOS throughout Eastern North Carolina.

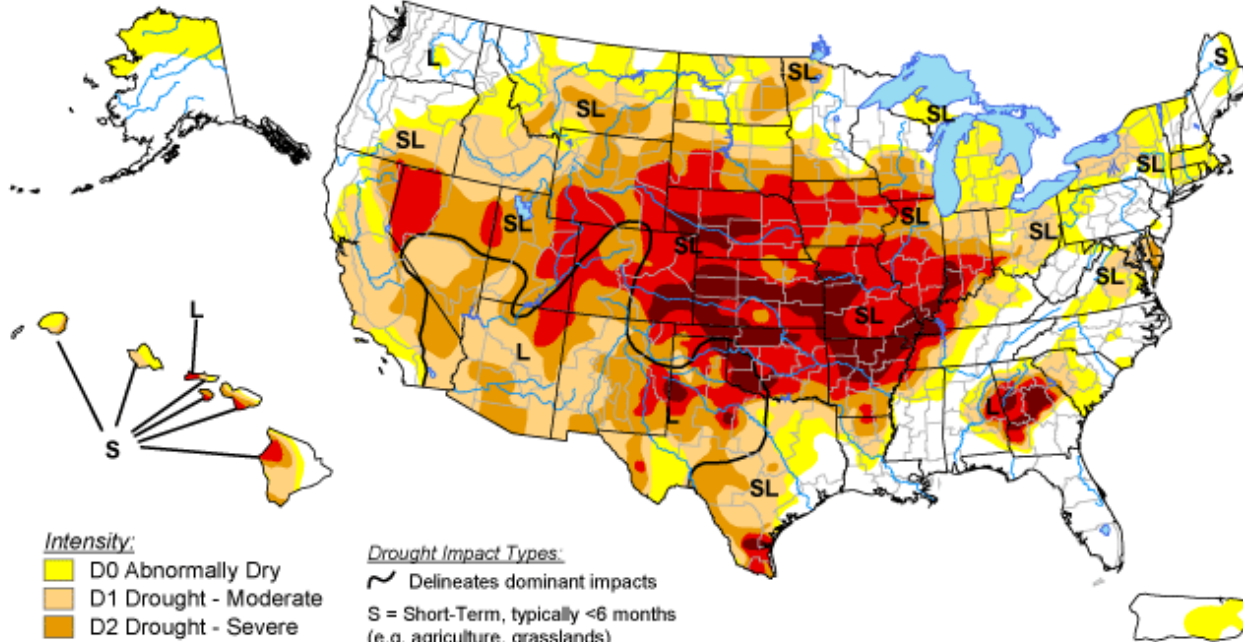
January to August Total Precipitation

COOP Stations	Total Precip (Jan 1-Aug 31)	Climate Normal	Precip. Difference
Beaufort	30.14	NA	NA
Cape Hatteras	36.25	37.68	-1.43
New Bern	38.47	38.27	0.20
Greenville	41.86	35.10	6.76
Kinston AG	37.30	34.76	2.54
Williamston	33.61	34.57	-0.96
Plymouth	34.95	37.35	-2.40
Bayboro	40.62	38.18	2.44

U.S. Drought Monitor

August 28, 2012

Valid 7 a.m. EDT



Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

Drought Impact Types:

- Delineates dominant impacts
- S = Short-Term, typically <6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically >6 months (e.g. hydrology, ecology)

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

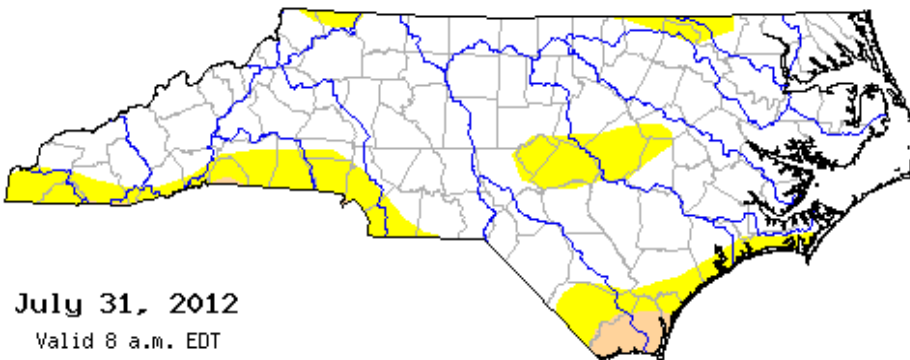
<http://droughtmonitor.unl.edu/>



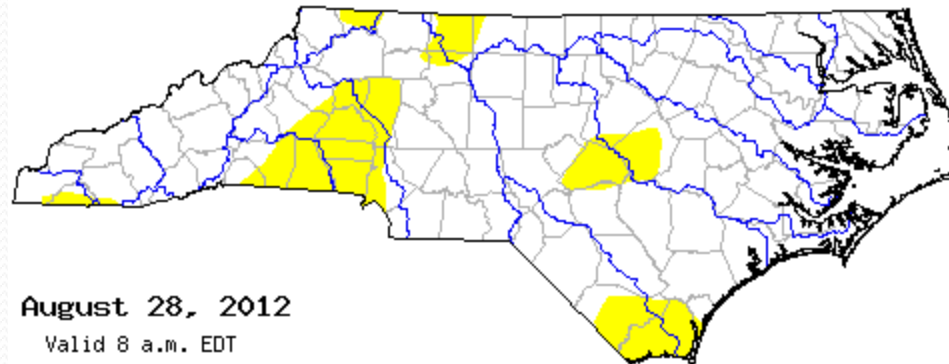
Released Thursday, August 30, 2012

Author: Brian Fuchs, National Drought Mitigation Center

Before



Now



July 31, 2012

Valid 8 a.m. EDT

August 28, 2012

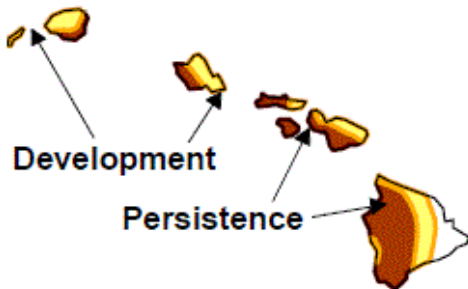
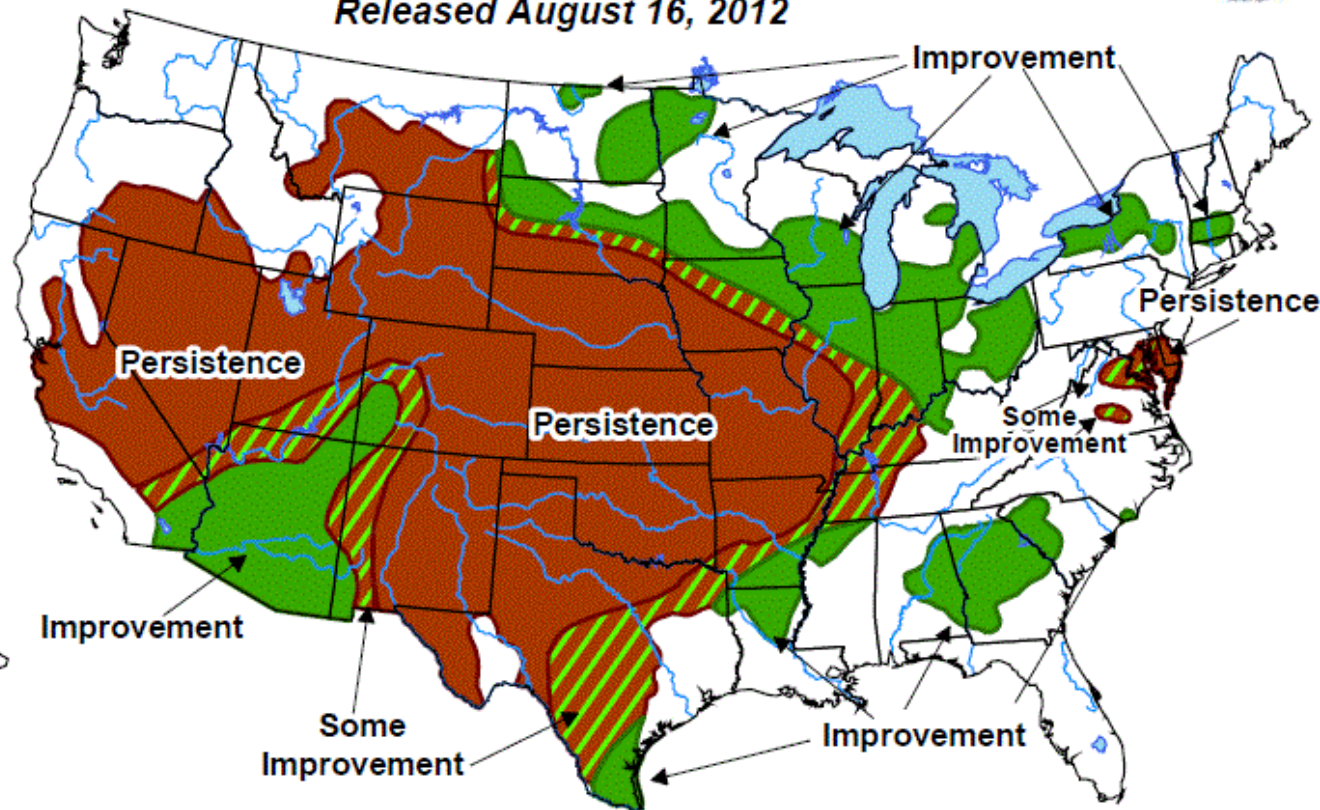
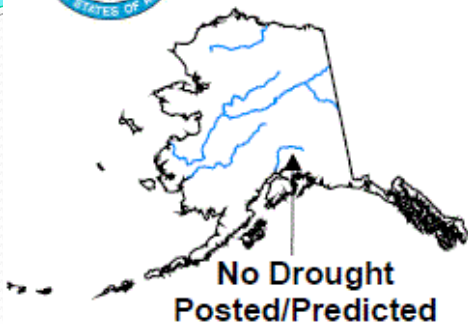
Valid 8 a.m. EDT







U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for August 16 - November 30, 2012
Released August 16, 2012



KEY:

-  Drought to persist or intensify
-  Drought ongoing, some improvement
-  Drought likely to improve, impacts ease
-  Drought development likely

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 green improvement areas imply at least a 1-category improvement in the Drought Monitor intensity levels, but do not necessarily imply drought elimination.