

Climate Review for the month of June 2011

Presented by:
BelMel Publishing

Summary

June was a very hot and dry month, with temperatures continuously being in the 90s. Cape Hatteras had three record breaking highs along with three tied records. Even though we were in a neutral ENSO, we continued to have a La Nina pattern across the area resulting in hot and dry conditions. These conditions produced two additional wild fires, Juniper Road and Holly Shelter, which affected Onslow, Carteret, Jones, Craven, and Pamlico Counties with poor air quality and lower visibilities. The Pains Bay Fire continued to affect the northern Outer Banks but smoke issue diminished at the end of the month.

We had three severe thunderstorms events during the second half on the month. These storms produced good amount of rainfall, but not enough to significantly reduce year to date deficits. Drought conditions have worsened across the coastal counties, taking us from a D2 to a D3 (Extreme Severe Drought).

Average Temperatures within our CWA

	Avg_ Max	Avg_ Max Normal	Avg_ Min	Avg_ Min Normal
Beaufort	87.8	na	74.0	na
Cape Hatteras	86.8	81.5	73.7	68.1
New Bern	91.4	84.9	68.4	66.5
Greenville	91.2	85.7	68.2	65.5
Kinston AG	91.1	88.9	69.5	65.0
Williamston	88.9	84.9	66.0	64.3
Plymouth	91.3	87.0	67.9	65.0
Aurora	91.0	85.5	71.6	65.4
Bayboro	90.4	86.1	65.7	65.6

Overall, the average temperatures were 2 to 5 degrees above normal for the month of June.

Max and Min Temperature within our CWA

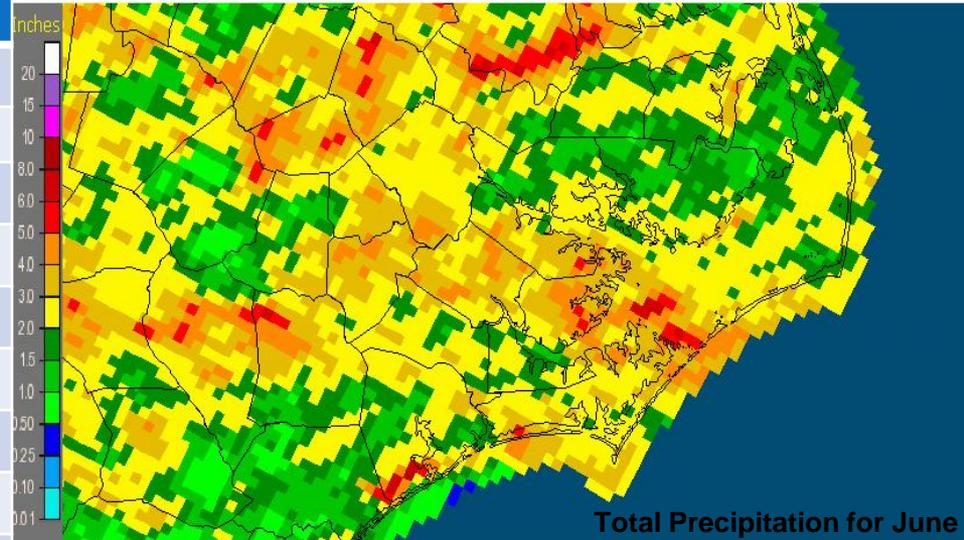
	MAX	MIN	# of Days \geq 90° F
Beaufort	96	59	4
Cape Hatteras	93	58	5
New Bern	98	54	18
Greenville	98	55	19
Kinston AG	97	57	22
Williamston	95	53	16
Plymouth	97	51	21
Aurora	98	65	17
Bayboro	96	53	18

90 degrees was a common temperature throughout Eastern North Carolina. There was one cool night that occurred on June 4 caused by a cold front.

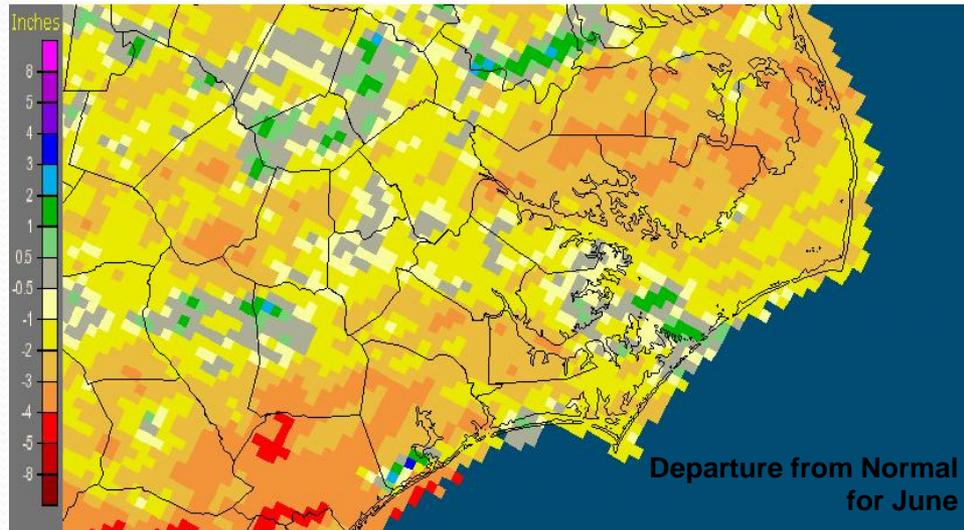
June's Rain versus Normal

	Precipitation (inches)	Normal	Differences
Beaufort	1.59	na	na
Cape Hatteras	1.56	3.82	-2.26
New Bern	2.66	4.8	-2.14
Greenville	2.8	4.38	-1.58
Kinston AG	3.27	4.48	-1.21
Williamston	2.29	4.46	-2.17
Plymouth	1.67	5.03	-3.36
Aurora	1.37	4.64	-3.27
Bayboro	3.95	4.76	-0.81

Newport/Morehead City, NC (MHX): June, 2011 Monthly Observed Precipitation
Valid at 7/1/2011 1200 UTC- Created 7/3/11 21:38 UTC



Newport/Morehead City, NC (MHX): June, 2011 Monthly Departure from Normal Precipitation
Valid at 7/1/2011 1200 UTC- Created 7/3/11 21:40 UTC



Every county received at least three quarters of an inch of additional rainfall than in May. Total amounts ranged between an inch to four inches, but still our CWA remains below normal for a typical June.

Monthly precipitation deficits were generally in the 2 to 3 inch range with localized 1 to 2 inch deficits recorded.

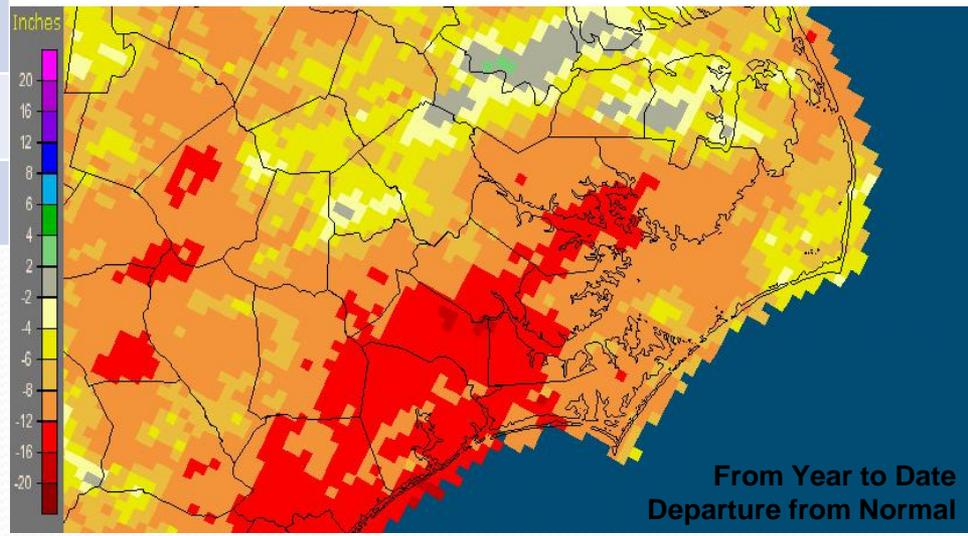
June's Driest Ranking

	Starting Year of Data Collection	June 2011 Ranking (Driest)	# 1 June Ranking
Beaufort	2000	1 st	Previous 2010 w/ 1.93"
Cape Hatteras	1893	14 th	1978 w/ 0.38"
New Bern	1948	12 th	2008 w/ 0.94"
Greenville	1875	29 th	1897 w/ 0.01" ????
Kinston AG	1966	15 th	1990 w/ 0.87"
Williamston	1930	18 th	2008 w/ 0.31"
Plymouth	1945	4 th	1954 w/0.92"
Aurora	1973	2 nd	2008 w/ 0.50"
Bayboro	1968	16 th	1978 w/ 0.03"

Total Precipitation: January to June 2011

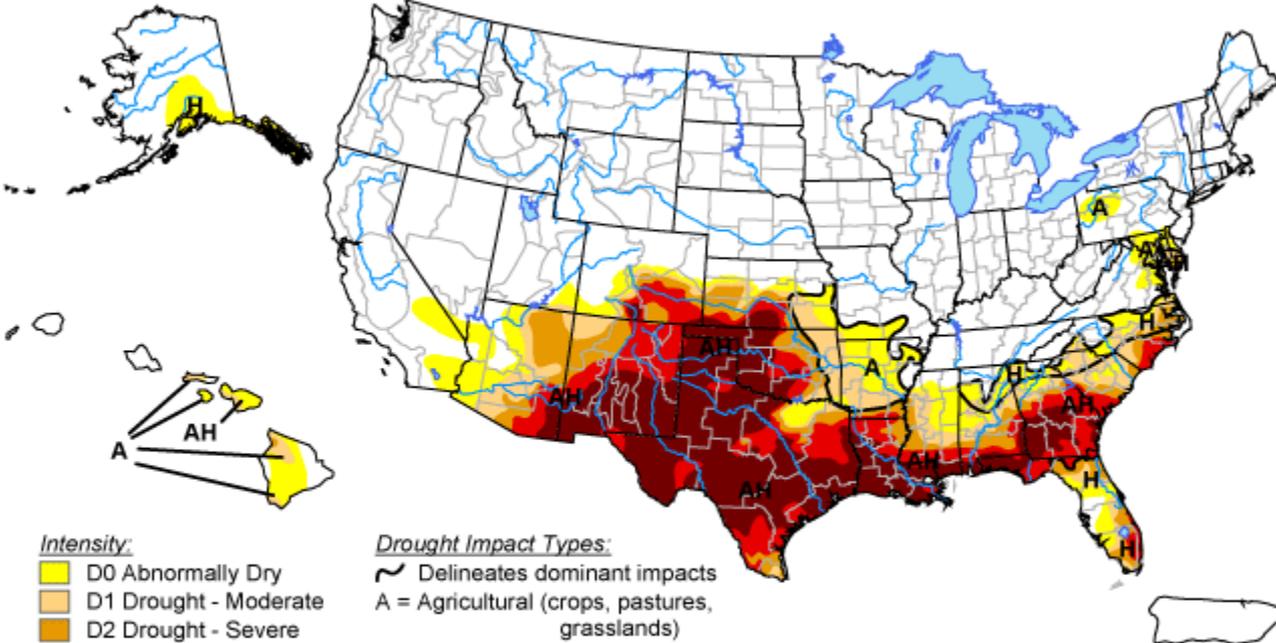
	Total Precip(Jan-Jun)	6-month Normal	6-month Difference
Beaufort	15.83	na	na
Cape Hatteras	18.5	25.76	-7.26
New Bern	13.18	25.45	-12.27
Greenville	19.12	23.57	-4.45
Kinston AG	15.38	23.77	-8.39
Williamston	17.4	23.74	-6.34
Plymouth	16.51	25.73	-9.22
Aurora	12.88	23.64	-10.76
Bayboro	19.21	24.66	-5.45

Newport/Morehead City, NC (MHX): Current Year to Date Departure from Normal Precipitation
Valid at 7/18/2011 1200 UTC- Created 7/18/11 23:49 UTC



U.S. Drought Monitor

July 12, 2011
Valid 8 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
 - A = Agricultural (crops, pastures, grasslands)
 - H = Hydrological (water)

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

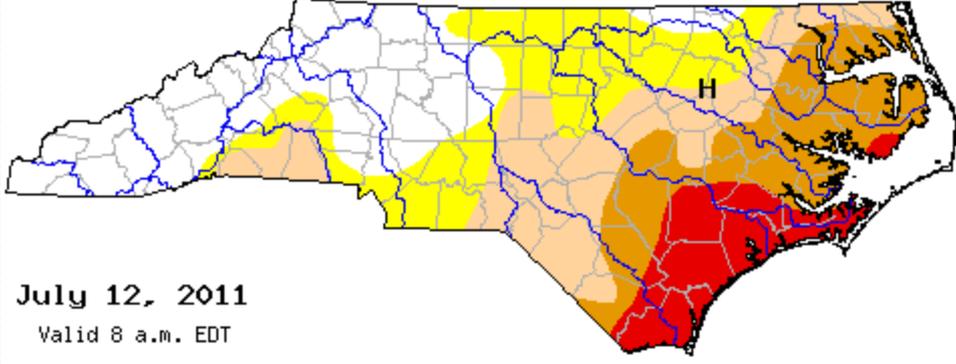
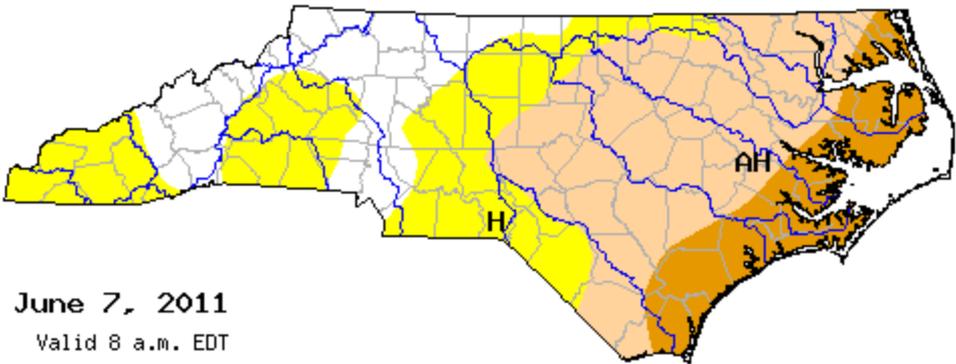


Released Thursday, July 14, 2011
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<http://drought.unl.edu/dm>

Before

Now



June 7, 2011
Valid 8 a.m. EDT

July 12, 2011
Valid 8 a.m. EDT

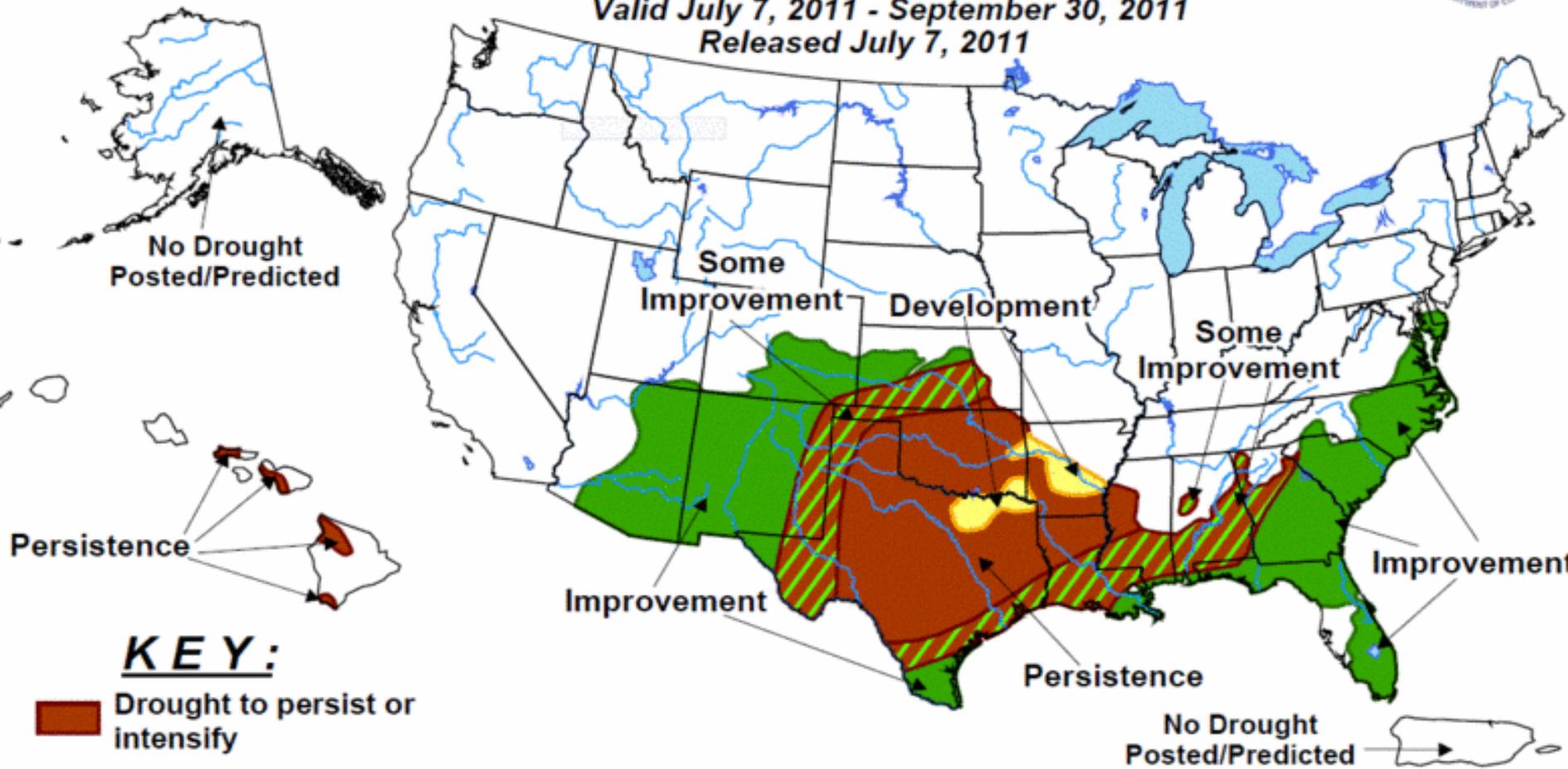


U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period



Valid July 7, 2011 - September 30, 2011
Released July 7, 2011



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.