

# Climate Review for the month of October 2011

Presented by:  
BelMel Publishing

# Summary

October was cooler and dryer compared to September. With max temperatures averaging in the lower 70s and average lows ranging in the upper 40s into lower 50s across the CWA. Overall, the CWA was near to below normal for average temperature for the month. Most of the our CWA received below normal precipitation. Only the Outer Banks area recorded higher than normal rainfall amounts during the month, with Cape Hatteras breaking a 24-hr precipitation total record of 4.49 inches on October 19 (previous record of 1.80 inches back in 1972). October was dominate by an upper level trough across the Eastern half of the US with cold front associated low pressure systems that moved across or near to our area, giving us our seasonable fall weather, but lack of precipitation. With temperatures dropping about an average of ten degrees from the previous month.

According to CPC, La Niña conditions continued to strengthen during the month of October . Sea surface temperature anomalies were below  $-0.5^{\circ}\text{C}$  across much of the eastern and central equatorial Pacific Ocean. The monthly Niño index in October was  $-1.0^{\circ}\text{C}$  for the Niño 3.4 region which according to CPC this considered to be a weak/moderate La Niña. Both the Northerly and Southerly Jets (200mb) have started to take shape of a typical La Niña pattern. As time goes by, we will continue to have an increase of La Niña impacts across the US and especially in North Carolina.

# Average Temperatures within our CWA

	Avg_ Max	Avg_ Max Normal	Avg_ Min	Avg_ Min Normal
Beaufort	72.3	na	56.0	na
Cape Hatteras	72.7	72.6	59.5	58.8
New Bern	72.7	74.4	51.9	53.1
Greenville	72.0	73.1	49.4	49.2
Kinston AG	73.4	77.1	51.2	50.9
Williamston	72.1	72.9	49.2	49.7
Plymouth	72.6	74.5	50.2	51.0
Aurora*	71.9	73.8	52.9	52.4
Bayboro	82.1	75.5	63.2	51.7

Overall, the CWA was near to below normal on average temperature for the month, except for Bayboro.

\* means incomplete record for the month of October

# Max and Min Temperature within our CWA

	MAX	MIN
Beaufort	81	39
Cape Hatteras	82	45
New Bern	85	45
Greenville	86	31
Kinston AG	86	34
Williamston	86	33
Plymouth	86	32
Aurora	86	39
Bayboro	88	57

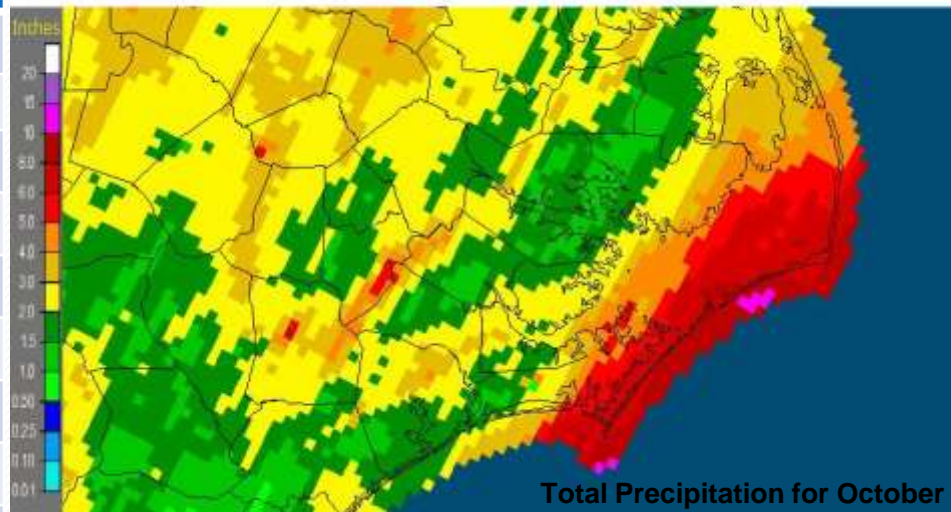
80° weather occurred in mid-October while our coldest temperatures occurred towards the end of the month.

# October's Rain versus Normal

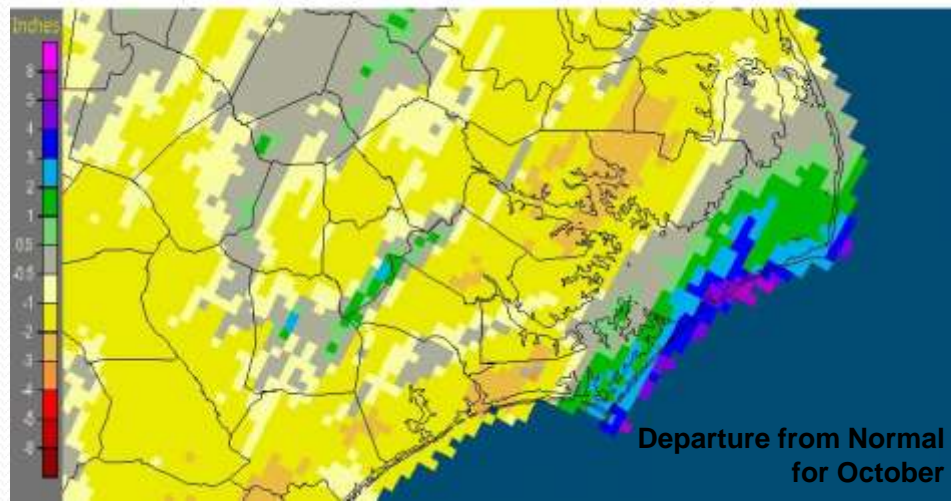
	Precipitation (inches)	Normal	Differences
Beaufort	6.41	na	na
Cape Hatteras	6.92	5.38	1.54
New Bern	2.02	3.26	-1.24
Greenville	2.36	3.25	-0.89
Kinston AG	2.42	3.06	-0.64
Williamston	1.64	3.90	-2.26
Plymouth	2.14	3.75	-1.61
Aurora	0.57	3.48	-2.91
Bayboro	7.75	3.98	3.77

Most of the CWA saw below normal precipitation, with only the Outer Banks area being above normal for the month.

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



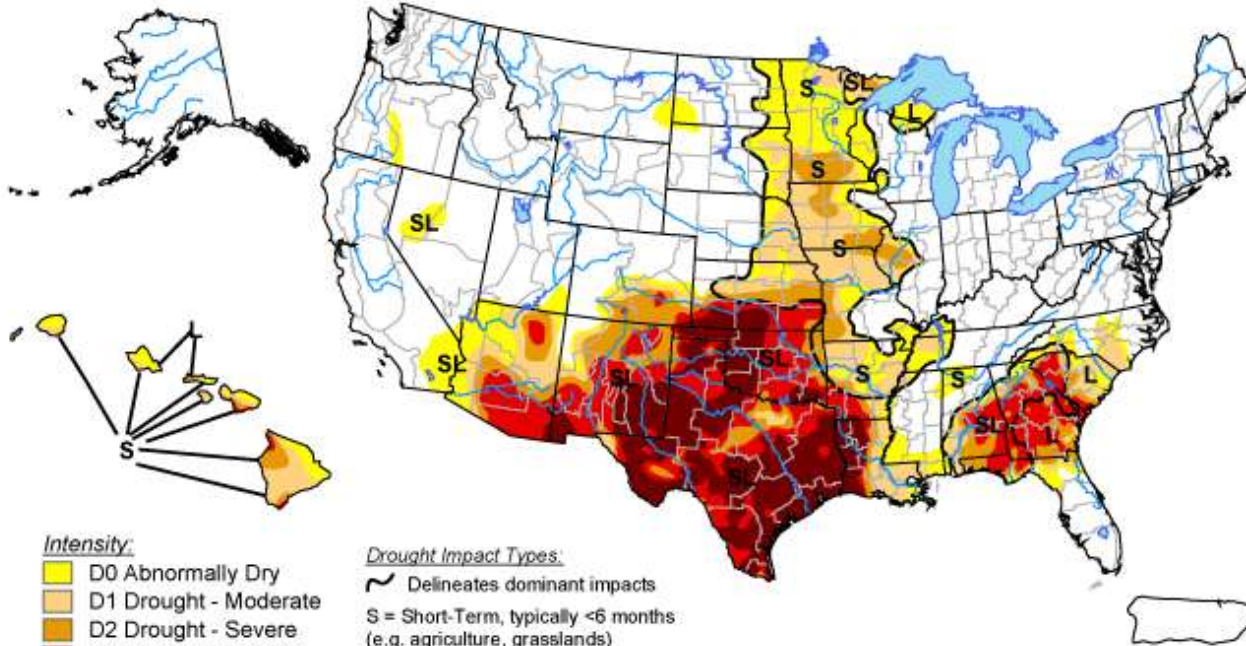
Newport/Morehead City, NC (MHC): October, 2011 Monthly Departure from Normal Precipitation  
Valid at 11/1/2011 1200 UTC- Created 11/3/11 21:40 UTC



# U.S. Drought Monitor

November 1, 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
- 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.



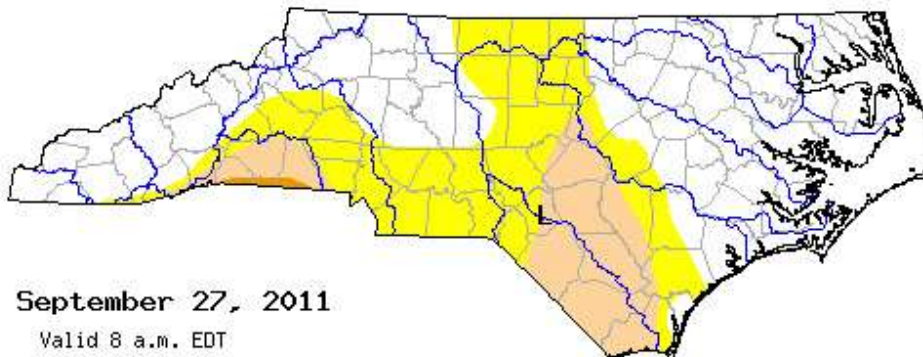
Released Thursday, November 3, 2011

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

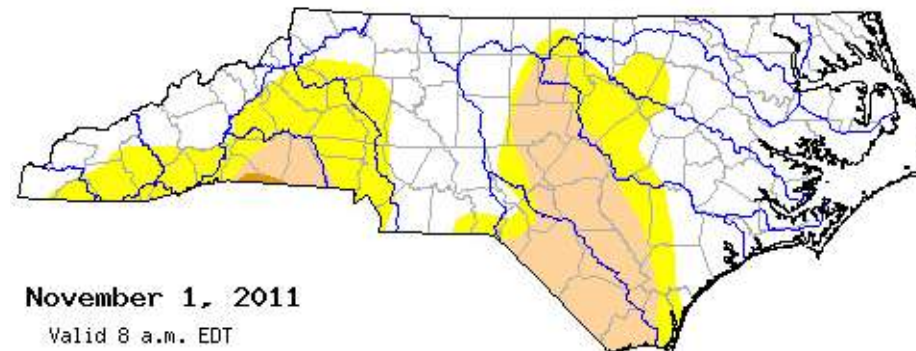
Before

Now



September 27, 2011

Valid 8 a.m. EDT



November 1, 2011

Valid 8 a.m. EDT