



UNRBA  
Nutrient Credit  
Development  
Project  
BOD Meeting  
January 2015

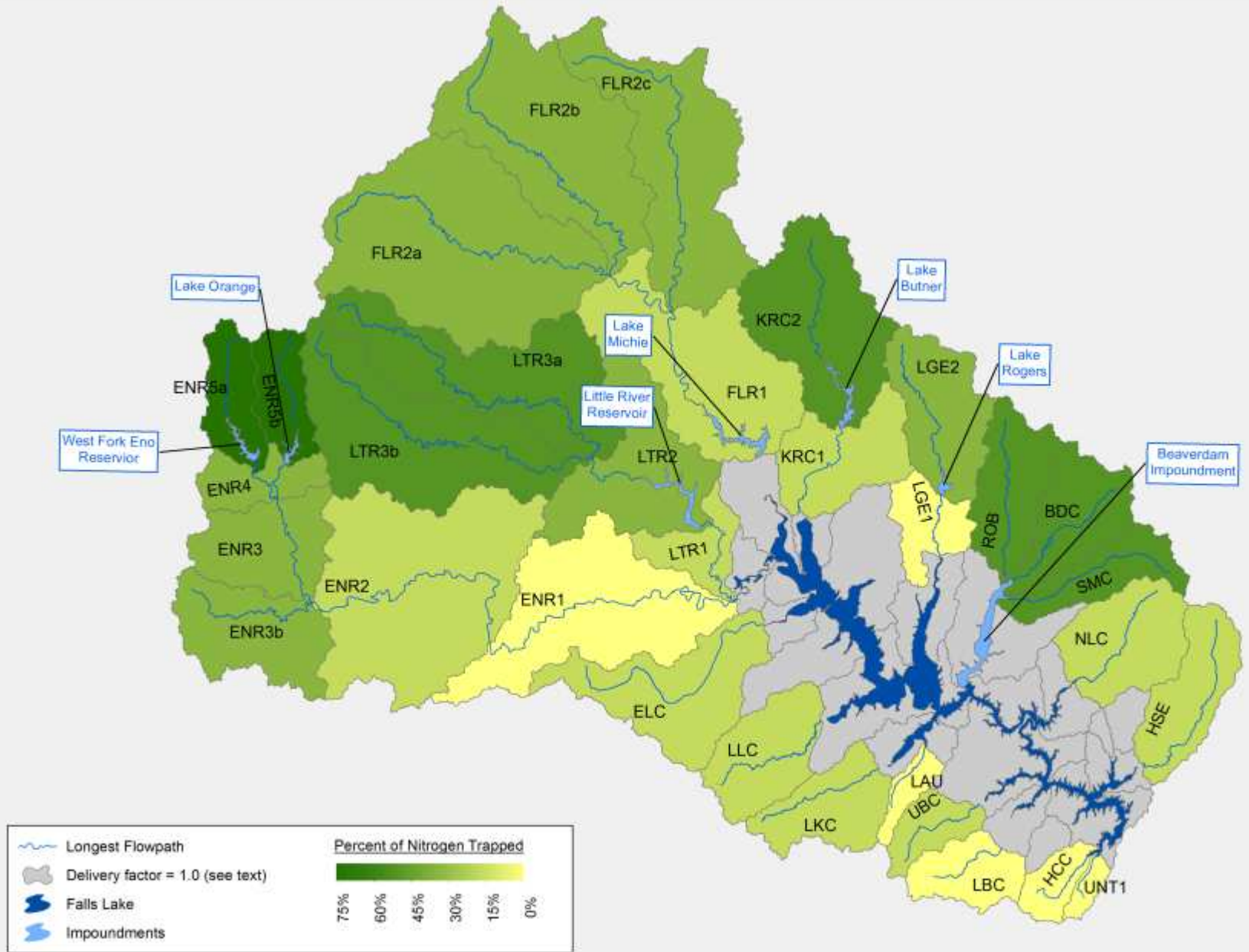


# Trapping Factors



## Status of Trapping Factors Analysis

- Trapping factors are used to determine how much nutrient load reaches the lake from various locations in the watershed
- Analysis is based on the latest USGS nutrient loading model
- PFC provided final comments at the December PFC meeting
- We finalized the memorandum and posted to the website



**Figure 5-1 Cumulative Nitrogen Trapped for Water Originating in Each Subwatershed**  
Upper Neuse River Basin Association  
North Carolina

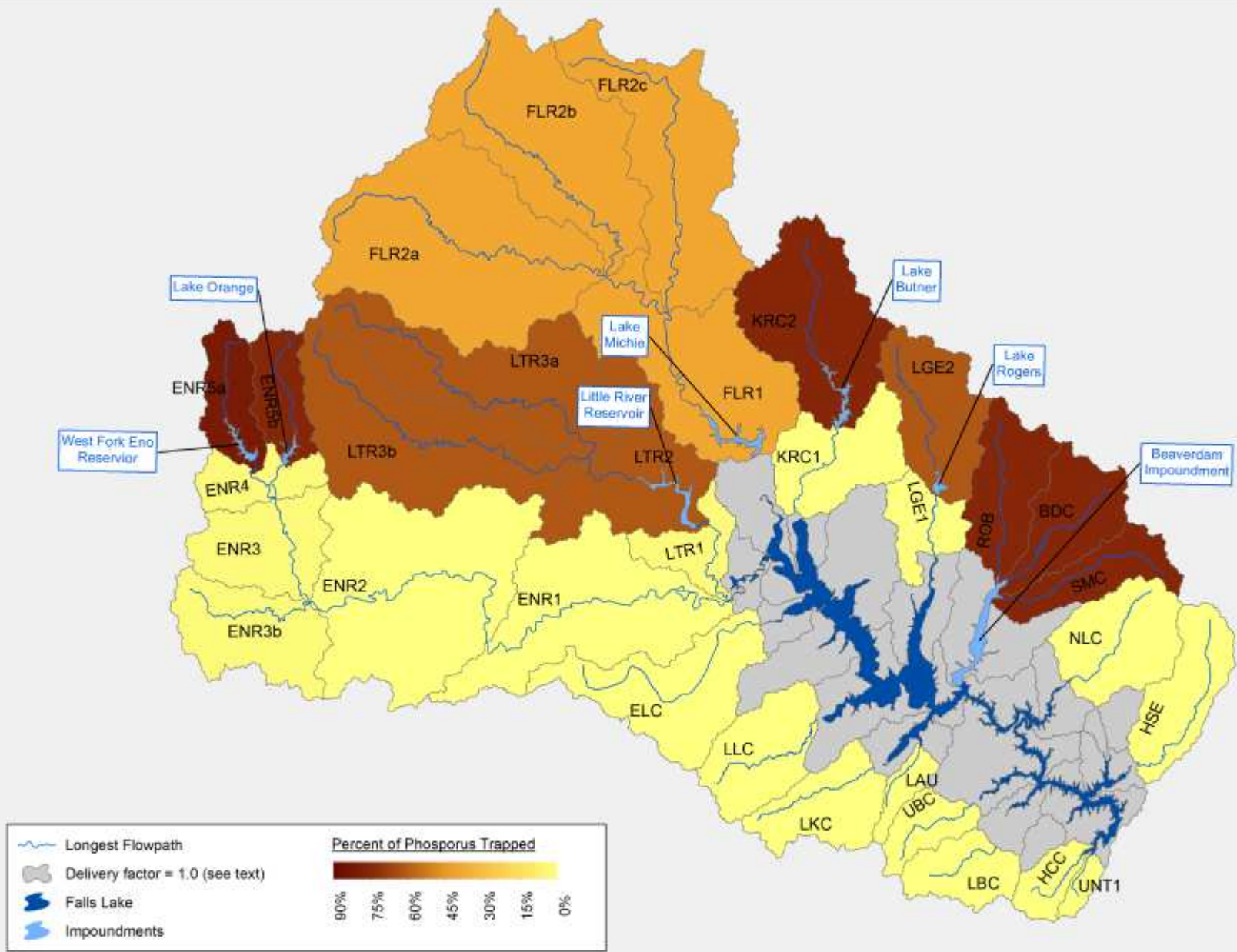


Figure 5-2 Cumulative Phosphorus Trapped for Water Originating in Each Subwatershed

Upper Neuse River Basin Association  
North Carolina

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0 1 2 3 Miles  
0 1 2 3 Kilometers

# Nutrient Credits



## Status of Credit Development

- Developing the contract with the Subject Matter Expert (SME)
  - Met with NCSU stormwater group to discuss the contract
  - NCSU stormwater group submitted draft scope of work
  - Forrest is reviewing and will finalize with PFC input
- Set up the database for credit calculation
- Populate the database with literature values for first batch of practices
  - Filter strips with design variants
  - Infiltration devices
  - Soil Amendment

# Credit Tool





## Status of Tool Selection and Development

- Worked with the PFC to develop a unified statement of purpose for the model
- Selected three tools to evaluate: JFLSLAT, WTM, and Storm-EZ (and Wake County Hybrid JFLSLAT/Storm-EZ)
- Drafting a memorandum to describe the three tools and recommend an approach for the UNRBA
- Review and comment on memorandum at February PFC meeting
- After PFC approves recommendation and releases funds, we'll begin developing the model



## Unified Statement of Purpose for Credit Tool

**Estimate** the annual total nitrogen and total phosphorus **load reductions** achieved through implementation of nutrient reducing measures on existing development at the subwatershed-scale that **integrates output from the existing tools** and enables users to **facilitate development of the local programs** and assist local jurisdictions in compliance with the Falls Lake Rules **reporting requirements**.



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