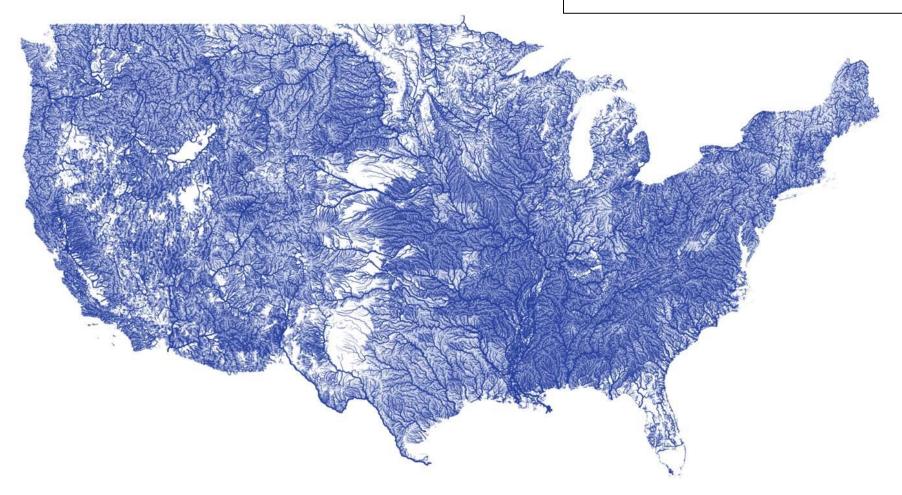


# Watershed Health-Flows Connect Us

NC Environmental Management Commission

May 2018



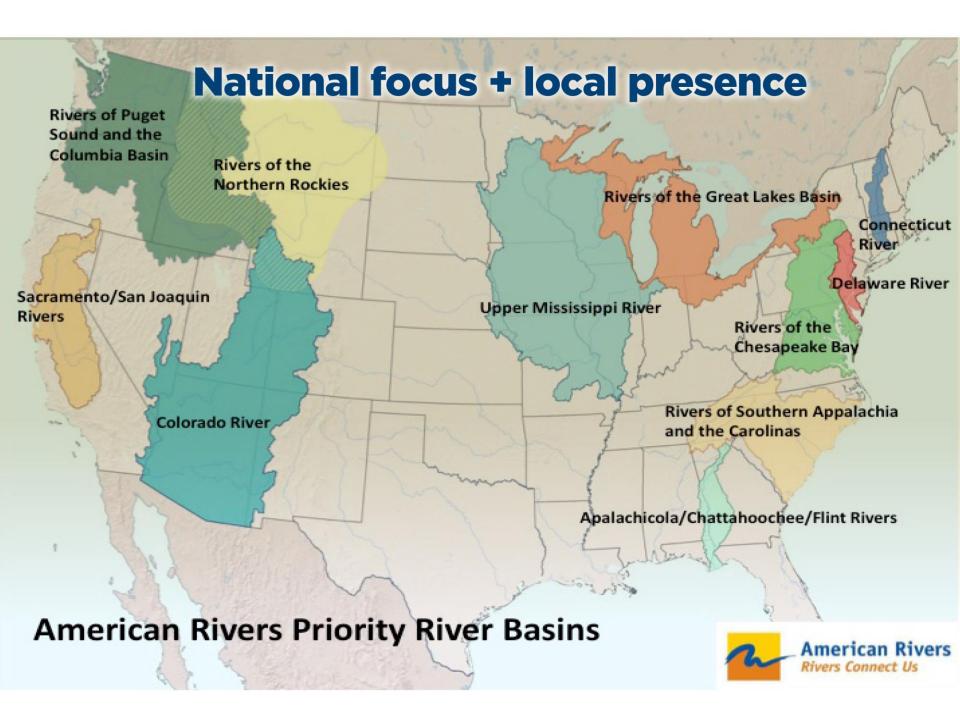


Founded in 1973, American Rivers protects wild rivers, restores damaged rivers, and conserves clean water for people and nature.



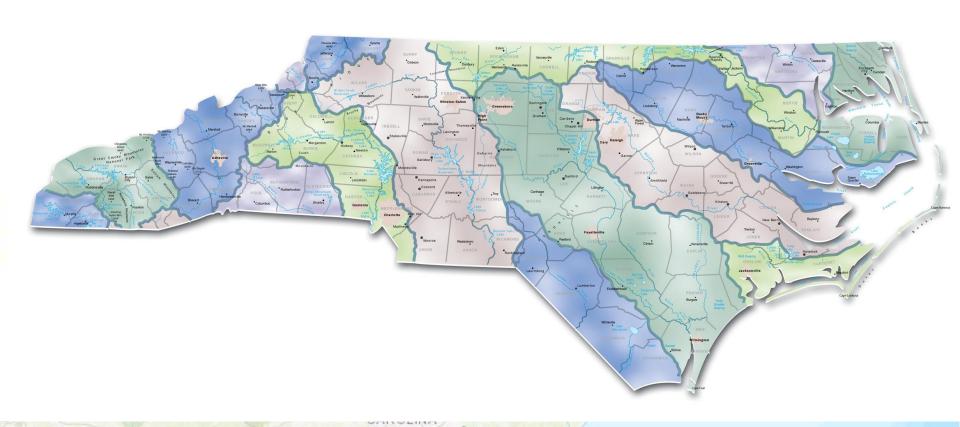
### American Rivers: What We Do







### Rivers and Watersheds of NC



Augustao

# **Leading Problems in Rivers and Streams**

2008/2009 National Streams and Rivers Assessment

#### **Ecological Risks**

>40% Nutrient pollution

24% Riparian vegetation loss

20% Riparian disturbance

15% Sediments

#### **Human Health Risks**

23% Bacteria Exceedance

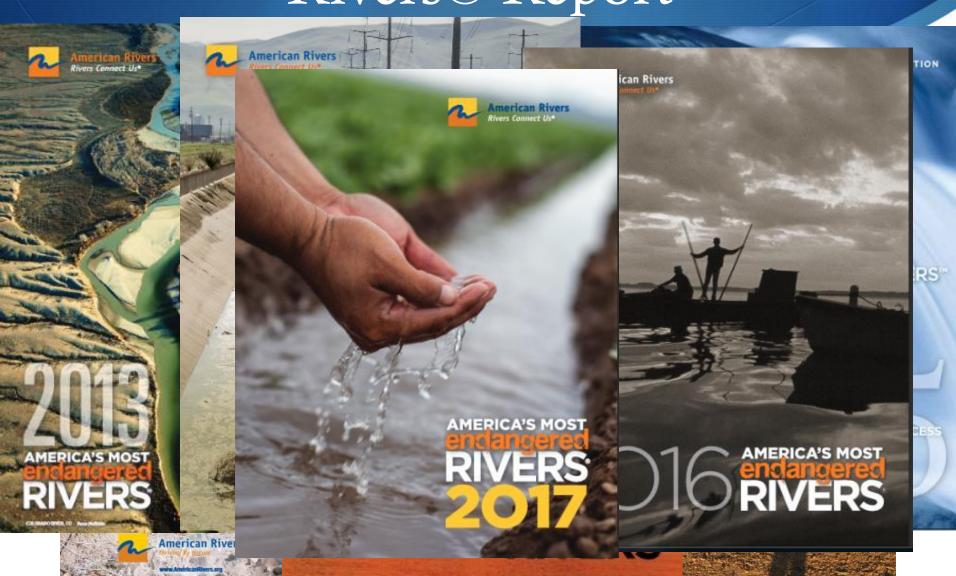
13,000 Miles Mercury

Contamination



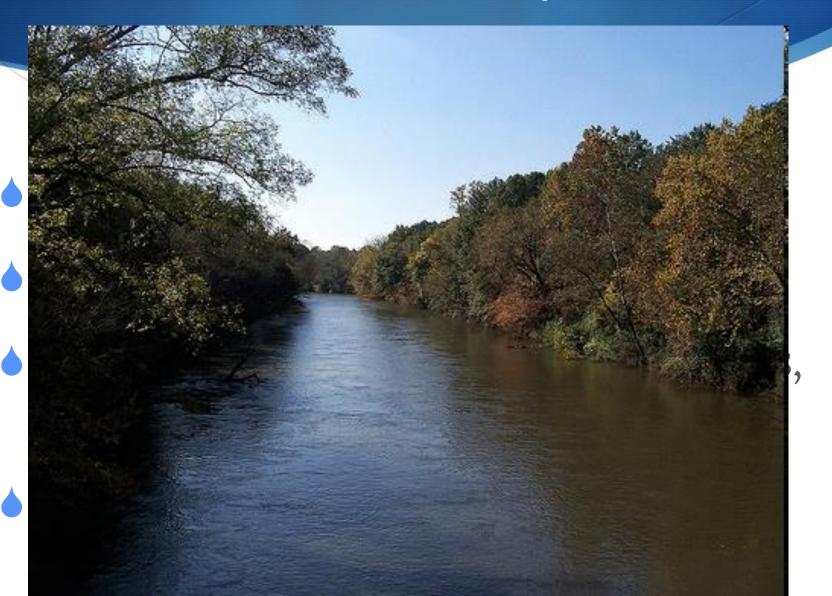


## America's Most Endangered Rivers® Report

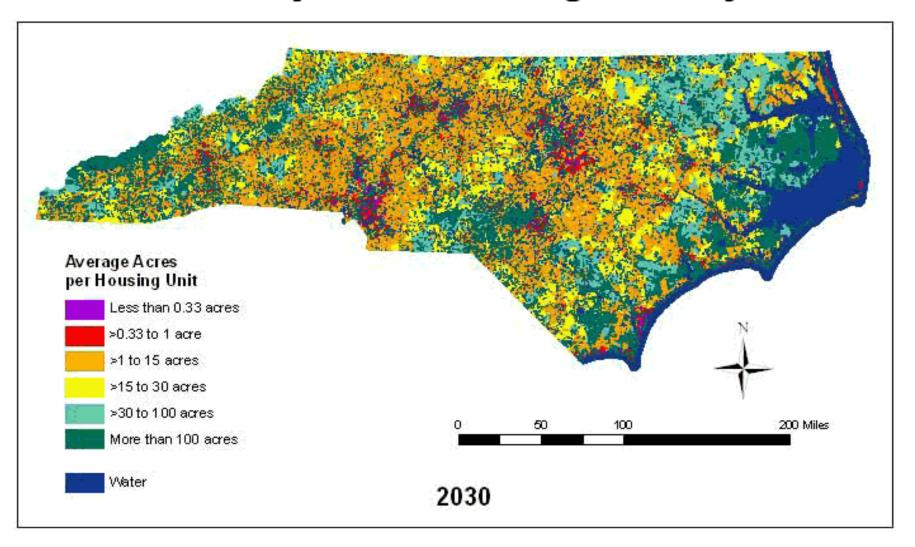




# Benefits of Healthy Rivers



#### **Projected Housing Density**

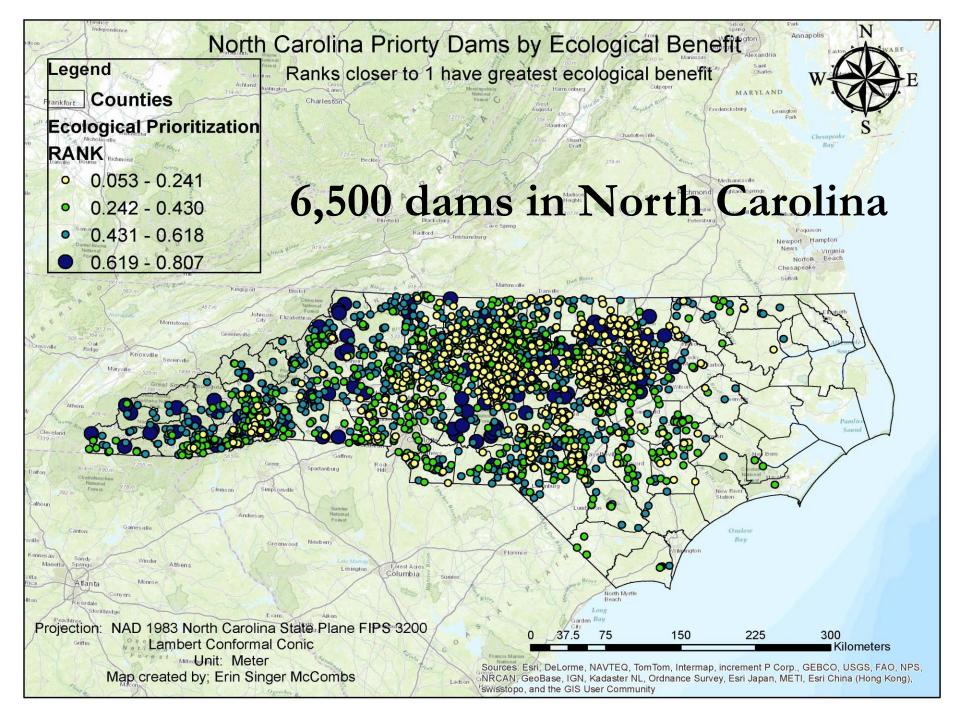














### What is the Solution?

$$(Vws + Vef)^n = \sum_{k=0}^n \binom{n}{k} x^k Vws^{n-k} + Vef^{n-k}$$

#### Where:

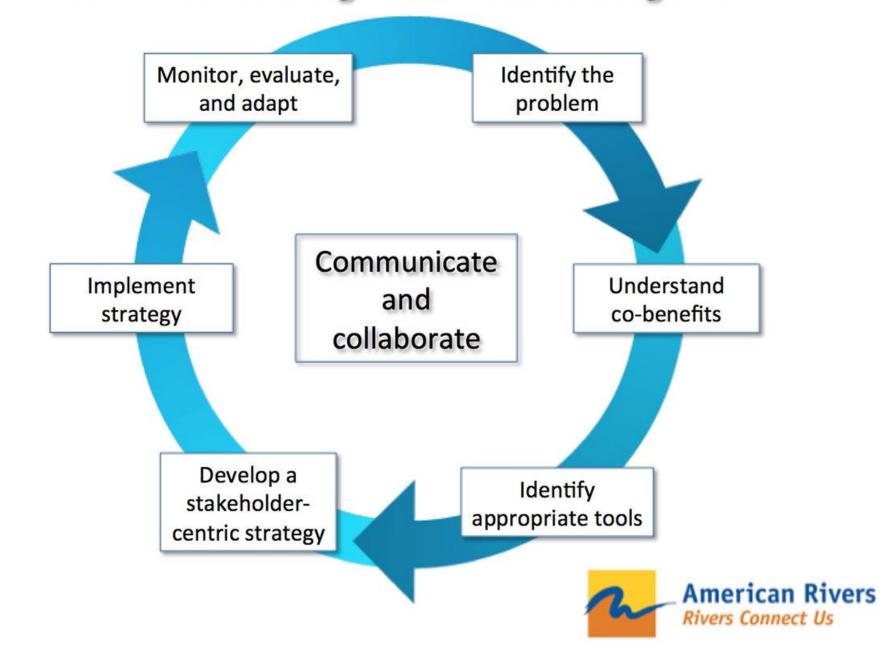
V= normalized societal value ws = water supply ef = environmental flows n = years into future



# Integrated Water Management

- Breaks down "silos"
- Create holistic, coordinated water systems that maximize economic, social, and environmental benefits

#### The Process of Integrated Water Management



### Thank you!



Peter Raabe 919-682-3500 praabe@americanrivers.org

Twitter: @AmRivers\_praabe Facebook.com/AmericanRivers www.americanrivers.org