



General Criteria for Prioritizing NPS Watersheds

- 1. Largest contributors of phosphorus to Lake Erie and the Ohio River**
- 2. Watersheds with Total Maximum Daily Load Studies**
- 3. Watersheds with watershed action plans**
- 4. Downstream impacts (Hypoxia for example)**

Ohio's Priority Watersheds

for Nutrient Reduction Activities

Great Miami River

Sandusky River

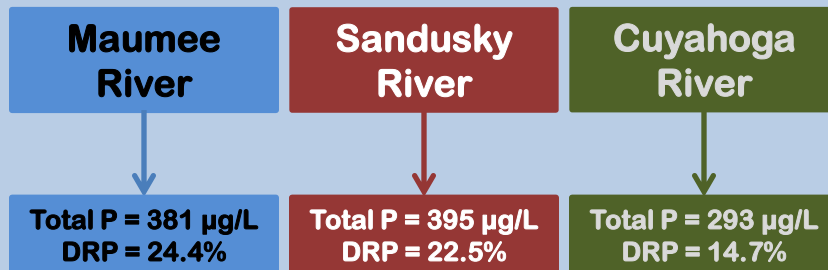
Scioto River

Cuyahoga River

Maumee River

Lake Erie Tributaries Priority Nutrient Reduction Watersheds

Phosphorus concentrations are averages from 2001-2008

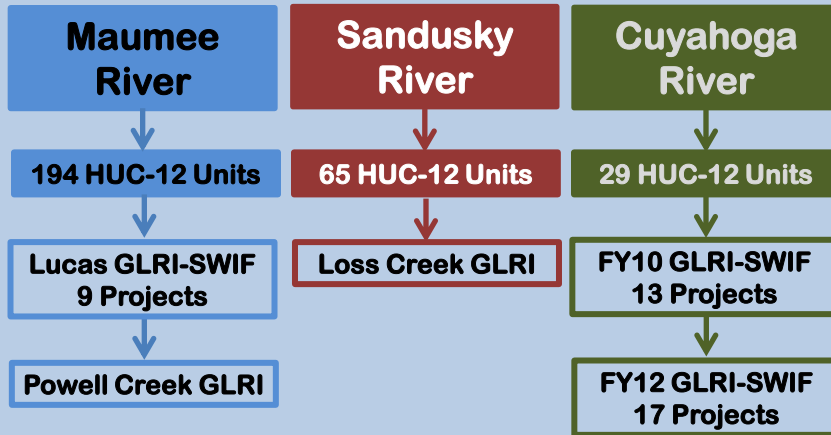


A typical Ohio stream with a mixture of land uses has a phosphorus concentration of 50 µg/L

Source: Nat'l Water Quality Lab Data 2001-2008

These things are Humongous

Where do we start?
How can we make a difference?



Nutrient Reduction Demonstrations Sandusky River -Loss Creek Subwatershed



Project Partners

Crawford County SWCD
Ohio State Extension
Sandusky Watershed Coalition
Ohio EPA
US EPA – Great Lakes Office

Funded under provisions of an
FY11 Great Lakes Restoration
Initiative Grant to Ohio EPA.

Engaging agriculture in
innovative ways to reduce
phosphorus loss to the
Sandusky River.

Urban Nutrient Reduction Demonstrations **Cuyahoga River – Cuyahoga County GLRI** FY 10 and FY12 GLRI-SWIF Grant Program



More the 30 NPS management projects have been funded with GLRI and SWIF grants and many are already completed.

Nutrient Reduction Demonstrations **Maumee River -Powell Creek Subwatershed**



**FY12 US EPA Great Lakes Initiative Grant to Ohio EPA
In partnership with Defiance SWCD, Defiance Health Dept. and ODNR**

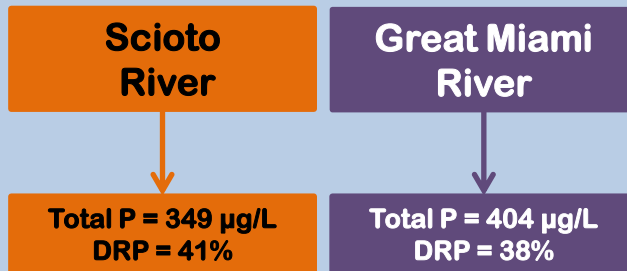
Implementing the Powell Creek TMDL by engaging agriculture to implement nutrient reduction activities in highly targeted ways.

Nutrient Reduction Demonstrations Maumee River – Lucas County, Ohio Lucas County GLRI—SWIF Grants Program



\$750,000 in FY12 US EPA GLRI and Ohio EPA SWIF Funding that will assist 9 local project implementers to complete:

Ohio River Tributaries Priority Nutrient Reduction Watersheds

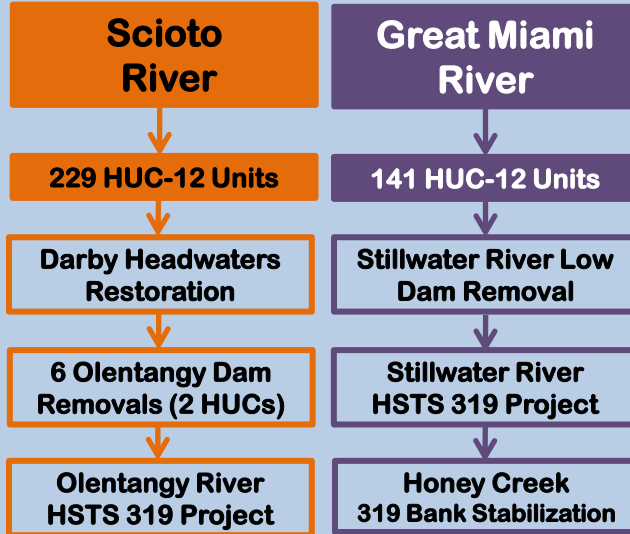


A typical Ohio stream with a mixture of land uses has a phosphorus concentration of 50 µg/L

Source: Nat'l Water Quality Lab Data 2000-2011

Again, very LARGE watersheds

How do narrow our focus?



Scioto River

229 HUC-12 Units

Big Darby Headwaters Restoration



Olentangy River Dam Removal



**Great Miami
River**



141 HUC-12 Units



**Englewood Lowhead Dam Removal
Stillwater River**

these are all **Good Starts**



**Reducing Nutrient
Losses**



**Treating/Reducing
Stormwater Flows**



**Wetland Treatment
Systems**

**But at the end of the day these are not
enough to solve Ohio's nutrient problems.**

