US ERA ARCHIVE DOCUMENT

GLRI efforts to address HABs in the Great Lakes

Inland HABS Discussion Group Webinar December 10, 2014





Great Lakes Restoration Initiative (GLRI)

 Obama Administration Initiative

- FY10: \$475 million

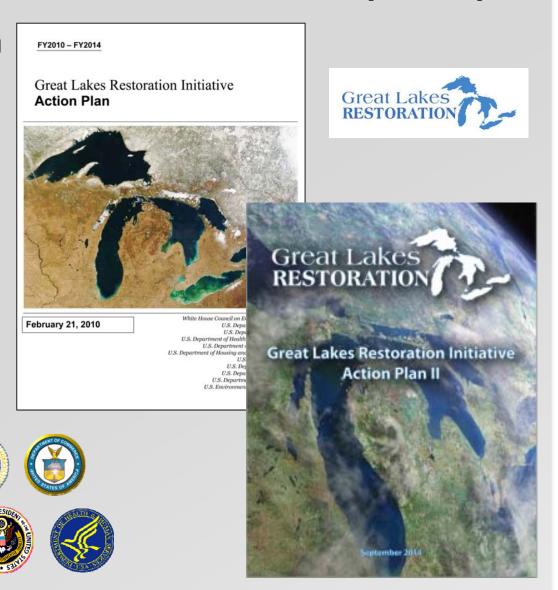
- FY11: \$300 million

- FY12: \$300 million

- FY13: \$284 million

- FY14: \$300 million

– FY15: \$275 million*







GLRI Action Plan I Focus Areas

FY2010 - FY2014

Great Lakes Restoration Initiative **Action Plan**



February 21, 2010

White House Council on Environmental Quality
U.S. Department of Agriculture
U.S. Department of Fariculture
U.S. Department of Flometand Security
U.S. Department of Hometand Security
U.S. Department of Hometand Security
U.S. Department of Hometand Security
U.S. Department of State
U.S. Department of the Army
U.S. Department of the Interior
U.S. Department of Transportation
U.S. Department of Transportation
U.S. Department of Transportation
U.S. Department of Transportation

- 1. Toxics Substances and Areas of Concern
- 2. Invasive Species
- 3. Nearshore Health and Nonpoint Source Pollution
- 4. Habitat and Wildlife Protection and Restoration
- Accountability, Education, Monitoring, Evaluation, Communication and Partnerships





PRIORITY WATERSHEDS



United States Environmental Protection Agency







US Army Corps of Engineers.



County Conservation Departments

Area Conservation Groups

Participating Producers

Participating Producers

PATION + MONITORING





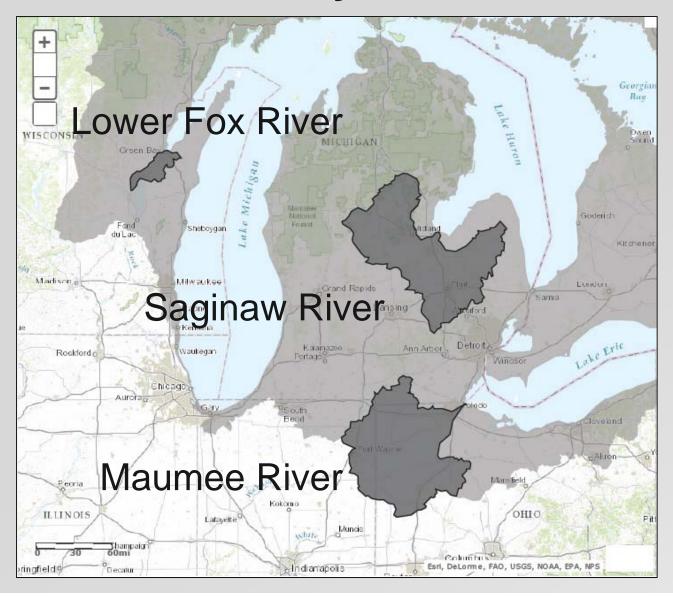
Original Priority Watershed Work Group Charges (August 2011)

- understand from the best available science where most of the agricultural sources of phosphorus are coming from at the most granular scale possible;
- develop a list of priority sub-watersheds and interagency efforts for reducing phosphorus in those sub-watersheds;
- recommend GLRI funding needed for implementing the inter-agency efforts
- direct efforts to implement efforts
- evaluate the effectiveness of efforts so that efforts can be re-calibrated in the future



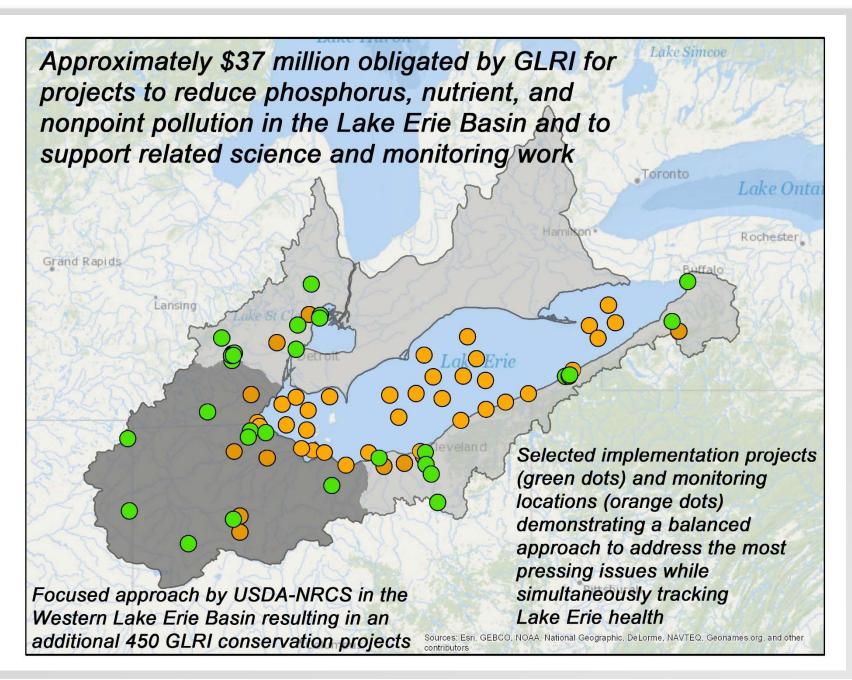


GLRI Priority Watersheds



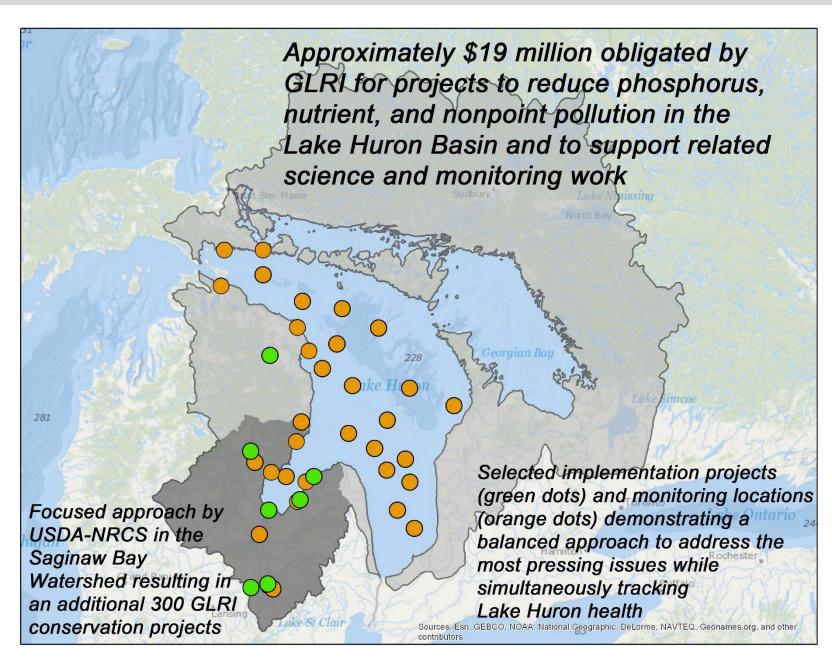






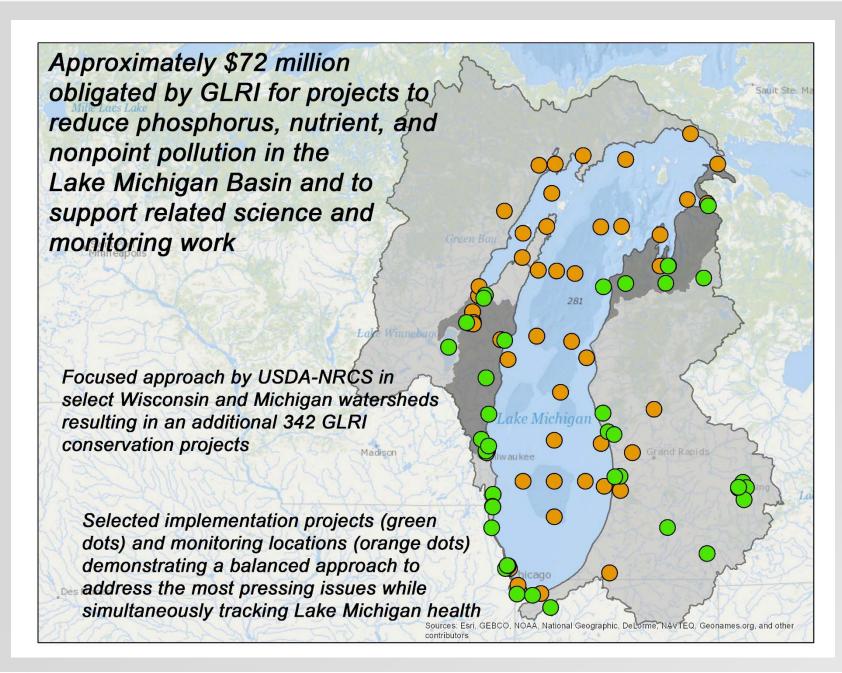








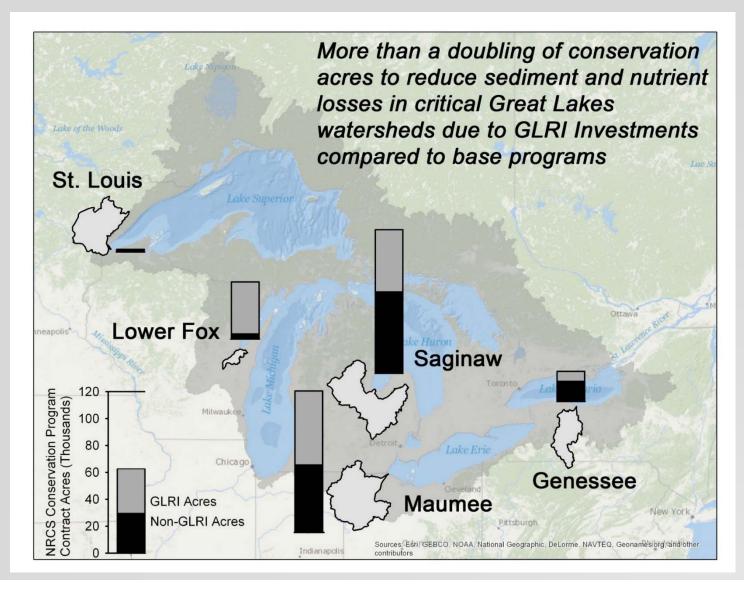








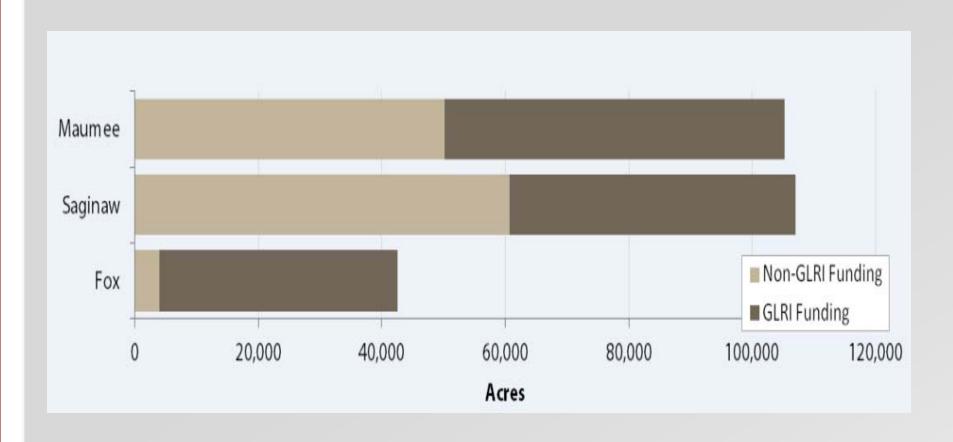
GLRI Priority Watershed Effort: Results FY2010-2013







NRCS FY10-13 Accomplishments GLRI Priority Watersheds









GLRI Supports a Diversity of Voluntary, Incentive-Based, Regulatory, & Innovative Approaches

- Maumee
 - NRCS (Voluntary/Incentive Farm Bill Programs)
 - Ohio EPA, ODNR, ODA (Target Setting Lake Erie Phosphorus Targets Recommended Through Ohio Phosphorus Task Force II)
 - Ohio EPA (Regulatory/Voluntary TMDL Implementation Plan)
 - Ohio State Extension (Innovative Training Workshops for Fertilizer Dealers)
 - The Nature Conservancy/ACOE (Innovative Two-Stage Ditches)











Ohio Lake Erie Phosphorus Task Force II Final Report



Final Report November 2013





2014 Lake Erie CSMI

- Huron Ontario
 Lake
 Superior Lake
 Lake Erie
 Michigan*
- Western Lake Erie Basin nutrient
 dynamics (Ohio Lake Erie Commission)
 - Quantify internal nutrient loads to the water column
 - Evaluate role of river hydrology and/or seasonality of P loads to HAB formation and dynamics
 - Develop a nutrient mass budget
- Huron-Erie corridor water quality and coastal condition monitoring (US EPA ORD)
 - US EPA's National Coastal Condition Assessment pilot
 - Included sampling for microcystin











LEVIS COMMONS FINE ART FAIR

www.LevisCommonsFineArtFair.com



Saturday, 10am - 8pm Sunday, 11am - 5pm





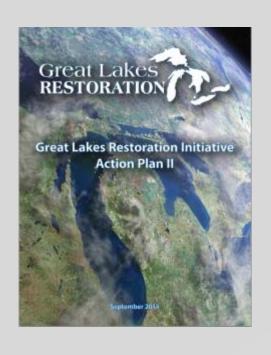
GLRI grants to Ohio, Michigan and Indiana to Target Harmful Algal Blooms in Lake Erie (\$8.6 M)

- Provide technical assistance and incentives to farmers in western Lake Erie watersheds to reduce phosphorus runoff that contributes to harmful algal blooms.
- Improve measurement of phosphorus loads in Lake Erie tributaries.





GLRI Action Plan II Principal Initiatives

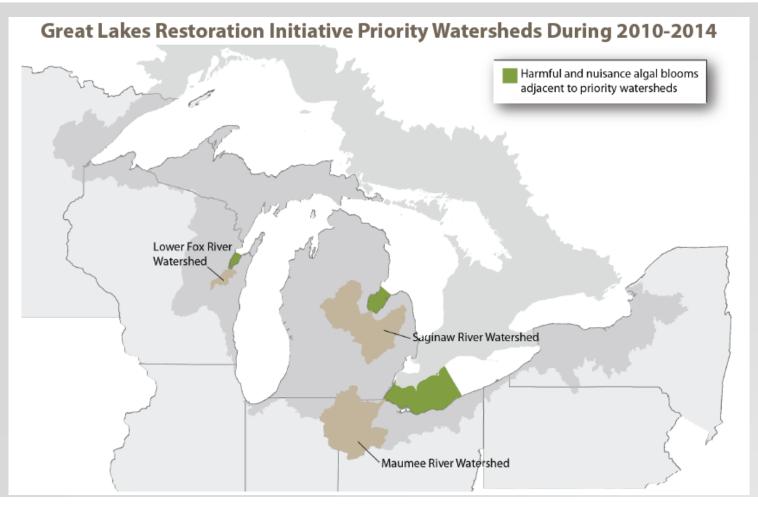


- 1. Toxic Substances and Areas of Concern
- 2. Invasive Species
- 3. Nonpoint Source Pollution Impacts on Nearshore Health
- 4. Habitats and Species
- Integrated Solutions to Cross-Cutting Issues





Objective I: Reduce nutrient loads from agricultural watersheds







Questions?

Paul J. Horvatin
US EPA-Great Lakes National Program Office
Chicago, IL

horvatin.paul@epa.gov



