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 **Source Water Protection Efforts**

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[nrcs.usda.gov/](http://nrcs.usda.gov/)

The slide features a teal header with the USDA logo and name. The main content area is split into a green left side with a white water drop icon and a right side with two images: a cornfield and a blue sky with clouds. A yellow and white graphic element is on the right. The bottom of the slide shows hands holding soil, with the NRCS logo and website URL in the bottom right corner.



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NRCS provides one-on-one, personalized advice.

NRCS helps people make investments in their operations and local communities.

Financial + Technical Assistance


NRCS generates, manages and shares the data, technology and standards to help make informed decisions.

The slide features a teal header with the USDA logo and name. The background is a photograph of two men in a field looking at a tablet. Four teal text boxes with white text are overlaid on the image, describing NRCS services.

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## 2018 Farm Bill encourages COLLABORATION to Protect Sources of Drinking Water

- Help NRCS direct funding to source water protection
- Leverage potential funding sources
- Assist with implementation and help target USDA initiatives
  - Identifying priority areas
  - Financial resources through EQIP & NWQI
- Conduct outreach to private landowners and operators
- Engage drinking water utilities and other source water protection stakeholders




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## National Water Quality Initiative (NWQI)



- Partnership between **NRCS and EPA**
- Priority areas selected in collaboration with state water quality agencies and water utilities
- NWQI addresses **surface waters impaired under the Clean Water Act**, and protects/restores drinking water sources (both surface and ground water)
- Long-term goal is to achieve water quality improvements through **accelerated** conservation practice implementation


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**EXPECTATIONS HAVE BEEN ESTABLISHED**




 <p><b>GULF HYPOXIA TASKFORCE</b></p> <p><b>20%</b> Nitrogen Loading Reduction by 2025</p>	 <p><b>WESTERN LAKE ERIE BASIN</b></p> <p><b>40%</b> Phosphorus Loading Reduction by 2025</p>
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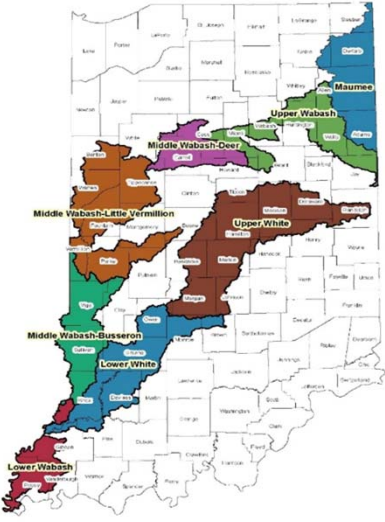


**State Nutrient Management Strategy**

- Led by the State Dept. of Environmental Management and the Indiana State Dept. of Agriculture, updated 2018.
- Priority 8-digit watersheds identified.
- Partners prioritize funding in priority watersheds.
- Monitoring water quality and modeling impact of practices to track progress.
- **The Indiana plan can be found at <https://www.in.gov/isda/2991.htm>**




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## Current Priority Watersheds Updated 2018

*Eight HUC 8 watersheds, situated along the Wabash and White Rivers, and the Maumee River watershed in NE Indiana.*

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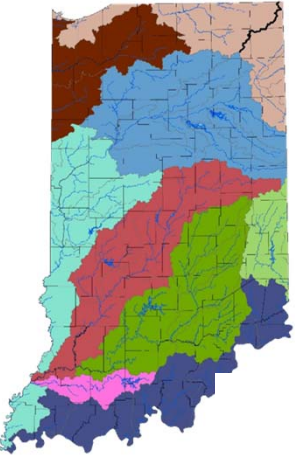


## Watershed Prioritization and Characterization

**Further Prioritization is being done at the Sub-Watershed Scale, at the HUC 12 level within the major river basins.**

Additional tools that will be used to characterize and re-examine the priority watersheds include:

- o Watersheds with drinking water reservoirs and surface water intakes
- o Areas of Aquifer Sensitivity and Groundwater Vulnerability
- o Nutrient Export Potential tool
- o An inventory of land use
- o Analysis of IDEM fixed-station and other WQ monitoring data
- o Critical areas identified in approved WMPs
- o Current social and environmental indicators
- o Current implementation activities



Ten Major River and Lake Basins in Indiana

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## Partnerships

The IN State Nutrient Management Strategy highlights the importance of partnerships.

**Indiana Conservation Partnership (ICP)** <http://icp.iaswcd.org/> *\*A truly unique Indiana approach*

**Other important partners**

**Indiana Agriculture Nutrient Alliance (IANA)** <https://inagnutrients.org/>

- Agribusiness Council of Indiana
- Indiana Farm Bureau
- USDA-NRCS
- Indiana Soybean Alliance
- American Dairy Association of Indiana
- Indiana Association of SWCDs
- Indiana Beef Cattle Association
- Indiana Corn Marketing Council
- Indiana Dairy Producers
- Indiana Pork
- Indiana State Department of Agriculture
- Indiana Poultry Association
- Purdue University College of Agriculture
- The Nature Conservancy of Indiana

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## Goals for Indiana farmers by 2025:

Nutrient Management	Soil Health	Application Timing
Regularly perform soil sampling <b>100%</b>	Increase green-living cover acres on Indiana cropland to <b>40%</b>	Apply nutrients to frozen or snow-covered ground as a last resort <b>100%</b>
Implement plans for nutrient management <b>100%</b>	Increase minimum tillage acres by <b>25%</b>	Apply nutrients to crops at-planting or post-emergence <b>75%</b>
	Increase no-till and strip-till acres by <b>10%</b>	

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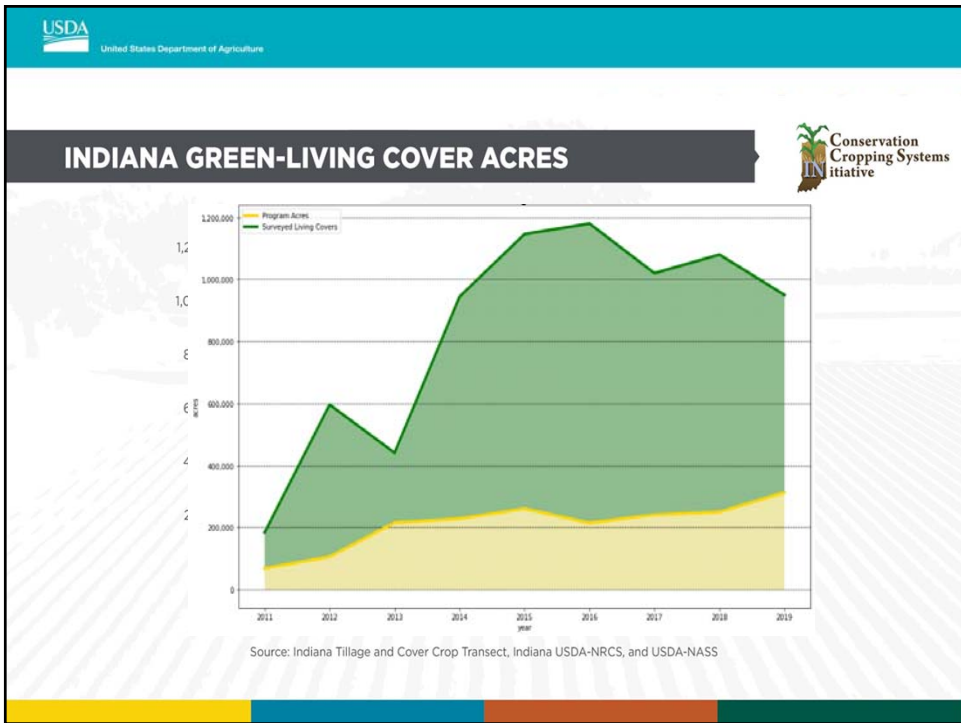
## Indiana Science Assessment

- Determine nutrient loads by basin and leaving the state.
- Develop a strategy for quantifying dissolved nutrients in addition to current sediment-bound tracking.
- Identify practices that are most efficient at reducing nutrient loads.

**Indiana Science Assessment Core Team**

- Indiana State Department of Agriculture
- Natural Resources Conservation Service
- The Nature Conservancy
- Indiana Agriculture Nutrient Alliance (IANA)
- Indiana Department of Environmental Management
- Purdue University

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## SEDIMENT & NUTRIENT LOAD REDUCTIONS

### INDIANA'S INTERACTIVE MAP

Visit [www.in.gov/isda/2991.htm](http://www.in.gov/isda/2991.htm)

Or search "Indiana nutrient load reduction interactive map"

**Indiana's Sediment and Nutrient Load Reductions**

Attribute Definitions

- percentage of conservation acreage installed within the watershed.
- Sediment Reduction (tons)** - The number of TONS of sediment reduced by conservation practices in a given year.
- Phosphorus Reduction (lbs.)** - The number of POUNDS of phosphorus reduced by conservation practices in a given year.
- Nitrogen Reduction (lbs.)** - The number of POUNDS of nitrogen reduced by conservation practices in a given year.
- Most Frequent BMP** - The most installed best management practice (BMP) in a watershed.

To comment or report an issue regarding this web application, contact Deb Fairhurst or Trevor Libbey.

## Questions?

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Partnerships  
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Indiana NRCS Website  
[www.in.nrcs.usda.gov](http://www.in.nrcs.usda.gov)

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