Building Resilience in Agriculture

Mike Dunn, Director of Indiana Freshwater Conservation Programs
Percent of Harvested Field Crop and Vegetable Land in Corn and Soybean

Lauer © 1994-2017
http://corn.agronomy.wisc.edu

Lauer, 2015 (Data source: USDA-NASS)
Percent of Harvested Field Crop and Vegetable Land in Corn and Soybean

Harvested land in corn and soybean (%)

- 0 - 10
- 10 - 30
- 30 - 50
- 50 - 70
- 70 - 90
- 90 - 100

Lauer © 1994-2017
http://corn.agronomy.wisc.edu
Lauer, 2017 (Data source: USDA-NASS 2010-2016)
SPARROW Model: Largest Contributor of Nitrogen to Wabash

http://wim.usgs.gov/sparrowmarb/sparrowmarbmapper.html#
SPARROW Model:  
Largest Contributor of Nitrogen to Wabash

Upper White River Watershed, Indiana

Ranking of All Wabash River Subwatersheds with Nitrogen Sources Depicted
Tools for Nutrient Reduction and Resiliency in Ag Settings

Soil Health

Floodplain

Restoration
SOIL HEALTH: The capacity of a soil to function as a vital, living ecosystem that sustains plants, animals, and humans.
Achieving soil health takes a system that will:

- Provide Continuous Living Roots
- Minimize Disturbance
- Maximize Biodiversity
- Maximize Soil Cover
Soil Health Efforts

Statewide, a total of 1,180,000 cropland acres had living cover crops and cereal grains planted in them.

Total Living Covers Planted

- All Crops
  - 322 - 0.149
  - 6,150 - 13,838
  - 13,839 - 25,501
  - 25,502 - 52,777
  - 52,778 - 87,947
  - No Data
Restoration Efforts
Challenges for Conservation in Ag Settings

From Allen Pursell, The Nature Conservancy in Indiana
Prices Received for Corn by Month – United States

Dollars per bushel

USDA – NASS
02/28/2019
Prices Received for Soybeans by Month – United States

Dollars per bushel


USDA – NASS
02/28/2019
Non-Operator Landowners

Share of U.S. farmland rented, 2012

Percent
- Less than 20
- 20 - 29
- 30 - 39
- 40 - 49
Non-Operator Landowners

% cover cropped, by county, 2012
GRiffin Oil Discovery

On December 14, 1938, at 8:20 p.m., oil was struck north of here at Fitzpatrick and Hayes #1 Cooper well. A gusher, it produced an estimated 1,000 barrels a day and began an oil boom in Griffin and the surrounding area. By 1941, 120 oil wells in this area were producing oil. Annual oil production in Indiana peaked in 1956 at over 12 million barrels.

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2025 Indiana Goals

• Reduce nutrient loading to the Gulf of Mexico from the Wabash River by 20%
• Increase cover crop acres to 40%
• Protect and restore an additional 10,000 acres of floodplain forest