# IOWA NUTRIENT REDUCTION STRATEGY

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# **WQI Update & Background**

- Strategy Released in 2013
  - Collaborative, science-based assessment
- lowa Legislature established Water Quality Initiative
  - Leveraging resources (RCPP, MRBI, private \$, other federal funding, and landowners)
- Engage partners, build capacity and overcome barriers to scale-up
- Accountability and tracking Logic Model (<a href="https://nrstracking.cals.iastate.edu/">https://nrstracking.cals.iastate.edu/</a>)
- 2018 Legislative Session passes longer-term sustainable funding.
  - \$15M annually for NPS to advance lowa NRS.
  - 2021 extends sustainable funding to 2039



# Updated Baseline Assessment

- NPS
- Historical progress on P loss from cropland
- Nitrogen needs more emphasis

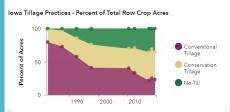


		1980-96 Baseline Load	2006-10 Benchmark Load (tons)	Change, 1980-96 to 2006-10		Major cause of change	
		(tons)					
Nitrogen	NPS	278,852*	293,395	5.2%	Increase	Land use change	
	PS	13,170	14,054	6.7%	Increase	Flow increase	
	Total	292,022	307,449	5.3%	Increase		
Phosphorus	NPS	21,436	16,800	21.6%	Decrease	Reduced tillage and soil test P	
	PS	2,386	2,623	9.9%	Increase	Flow increase	
	Total	23,822	19,423	18.5%	Decrease		

<sup>\*</sup>The method used to derive the total nitrogen estimate of 292,022 tons indirectly reflected the point source contributions.

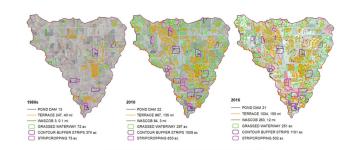
#### BMP Mapping -Land

- Select BMPs identifiable w/ available data
- 2007-2010Benchmark
- Documentation
- Historical
- WS Modeling



Statewide Practice Summary							
Pond Dams	Grassed		WASCOBs				
(number)	waterways (ac)	Terraces (ft)	(number)				
114,423	327,904	469,257,556	246,139				

Estimated >\$6B in investment based on today's costs.



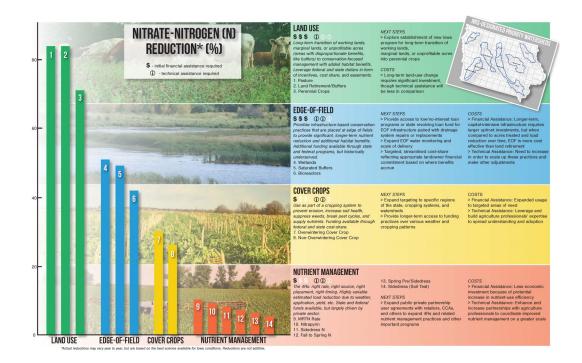
Learn more at

https://www.gis.iastate.edu/gisf/projects/conservation-practices

# **Water Quality Initiative**

# highlights

- Increasing the scale to address the goals of the NRS
  - Traditionally soil conservation, livestock and in-field nutrient management based
  - Advance understanding and critical practices and delivery of practices focusing on addressing nutrient reduction
  - · Leverage and expand state and farmer resources
- Tracking and documenting progress
  - Collective effort of management and practice installation
  - ISU established measurement coordinator in 2015
  - Utilize information to inform progress, but also inform/prioritize resources



#### **Leveraging Federal Funding Sources**

### **Iowa Nutrient Reduction Strategy**

- · Regional Conservation Partnership Program (RCPP) projects:
  - Expand technical capacity: Conservation planning services to leverage state and federal funding
  - Increase available funding: State+Private investments provides more leverage for RCPP
  - · Direct/prioritize geographies, practices, etc.



- 16 individual RCPPs
- · 7 led by IDALS
- 14 "Classic" RCPPs
- · 2 "Alternative Funding Arrangements"
- Over \$84M awarded.



#### **Leveraging Federal Funding Sources**

#### **Iowa Nutrient Reduction Strategy**

- EPA-Gulf of Mexico (GOM) Farmer to Farmer projects:
  - Demonstrate and deploy new(er) practice concepts/methods.
  - Expand opportunities and learn from processes to adapt to future efforts.
  - 3 Current Projects over \$3M awarded by EPA-GOM







# **Leveraging Federal Funding Sources**

# **Iowa Nutrient Reduction Strategy**

- America's Rescue Plan (ARP) projects:
  - Just announced Iowa Governor Reynolds announced \$100M investment in WQ - \$25M to IDALS for practice implementation in support of the INRS.
  - · Focus will be on priority practices and watersheds
  - Leverage and expand state resources for infrastructure-based practice installation





