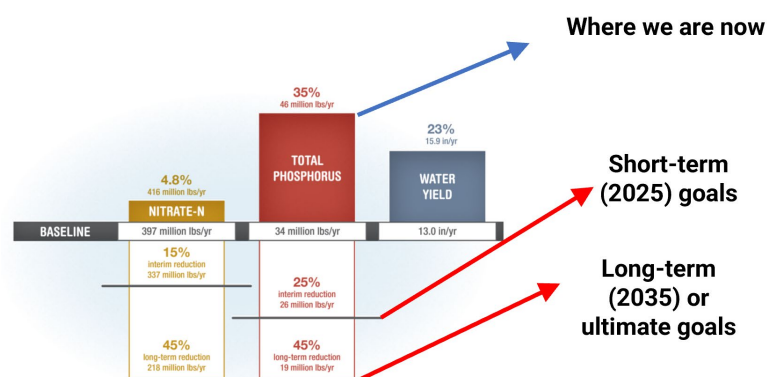
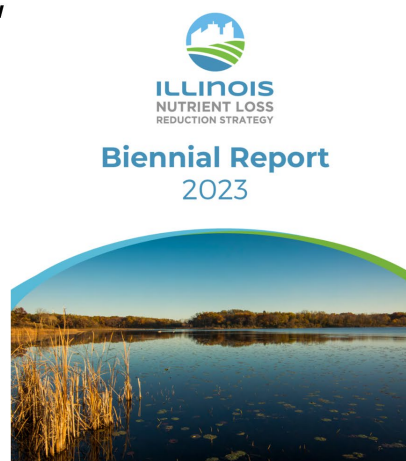




Current progress and identified research gaps for non-point sources in Illinois Nutrient Loss Reduction Strategy



Percent increase from baseline (1980-1996) to average 2017-2021 (Illinois NLRS Biennial Report, 2023)



Key questions to be answered	Key gaps and tasks to fill the gaps
Where to target?	Develop annual nutrient export inventory
	Quantify temporal variation of nutrient export (seasonal variation and contributions from extreme/non-extreme events)
	Separate contributions from hydrological change and anthropogenic activities (flow normalization)
How to reduce?	Quantify the contribution from various sources (streambank erosion, different sources and forms of N and P)
	Quantify nutrient retention capacity and legacy impacts at watershed scale
	Quantify the efficacy of various conservation strategies at watershed scale
What is the conservation plan?	Identify the right spots for the right BMPs for the target watersheds
	Conduct systems and science-based conservation planning for target watersheds
	Develop practical toolboxes to guide conservation implementation

Contact: **Dr. Bin Peng**, Assistant Professor on Water, Agriculture, and Conservation at Department of Crop Sciences, University of Illinois Urbana-Champaign, binpeng@illinois.edu.