

# Smarter Water, Stronger Systems: Collaborative Paths to Resilience

Amy Saltzman  
Senior Program Officer  
Walton Family Foundation  
Environment Program



# Overview







# Environment Program





# WHO



**Farmers,  
ranchers & fishers**



**Governments:  
Federal, tribal, state  
& local**



**Companies**

# WHERE



# Mississippi River and Coastal Louisiana





# Colorado River



# Oceans





# Mississippi River Program

Theory of Change





# THEORY OF CHANGE

## MISSISSIPPI RIVER BASIN

The Walton Family Foundation works with communities & businesses in the Mississippi River Basin to protect water resources so that nature & people can thrive.

### WHAT



#### Inclusion

Engage, empower & learn from diverse communities, governments, leaders & funders



#### Innovation

Develop & adopt nature-based & technological solutions



#### Supply Chain

Build supply & demand for sustainable agriculture



#### Policy

Advocate for long-term progress in protecting water







## Farmers

Implement soil health practices  
to improve water quality, become  
more climate resilient

# WHO



## Communities & government

Support natural infrastructure  
& policies that encourage soil  
health practices







# WHY

Communities more resilient to  
changing climate

Improved water quality in  
the Mississippi River Basin



# What's next: Watershed Health and Resilience

## WHERE WE HAVE BEEN:

- Focused on agriculture because it is the leading source of nutrient pollution in the MS River
- Sustainable agriculture is an important piece of the puzzle, but it is only one piece
- Starting with place-based work and innovation to refine ideas and develop champions for scaling up the work through policy and markets



## WHERE WE COULD GO:

- **Upstream-downstream partnerships** that bring new tools to communities to manage watershed health
- **Community engagement** to create more ownership for a healthy and vibrant river
- **Momentum and funding for natural infrastructure**, including how communities can incorporate nature-based solutions into their long-term planning





# Aligning Interests for Smarter Water Management

Bridging Agriculture, Conservation and  
Community Needs





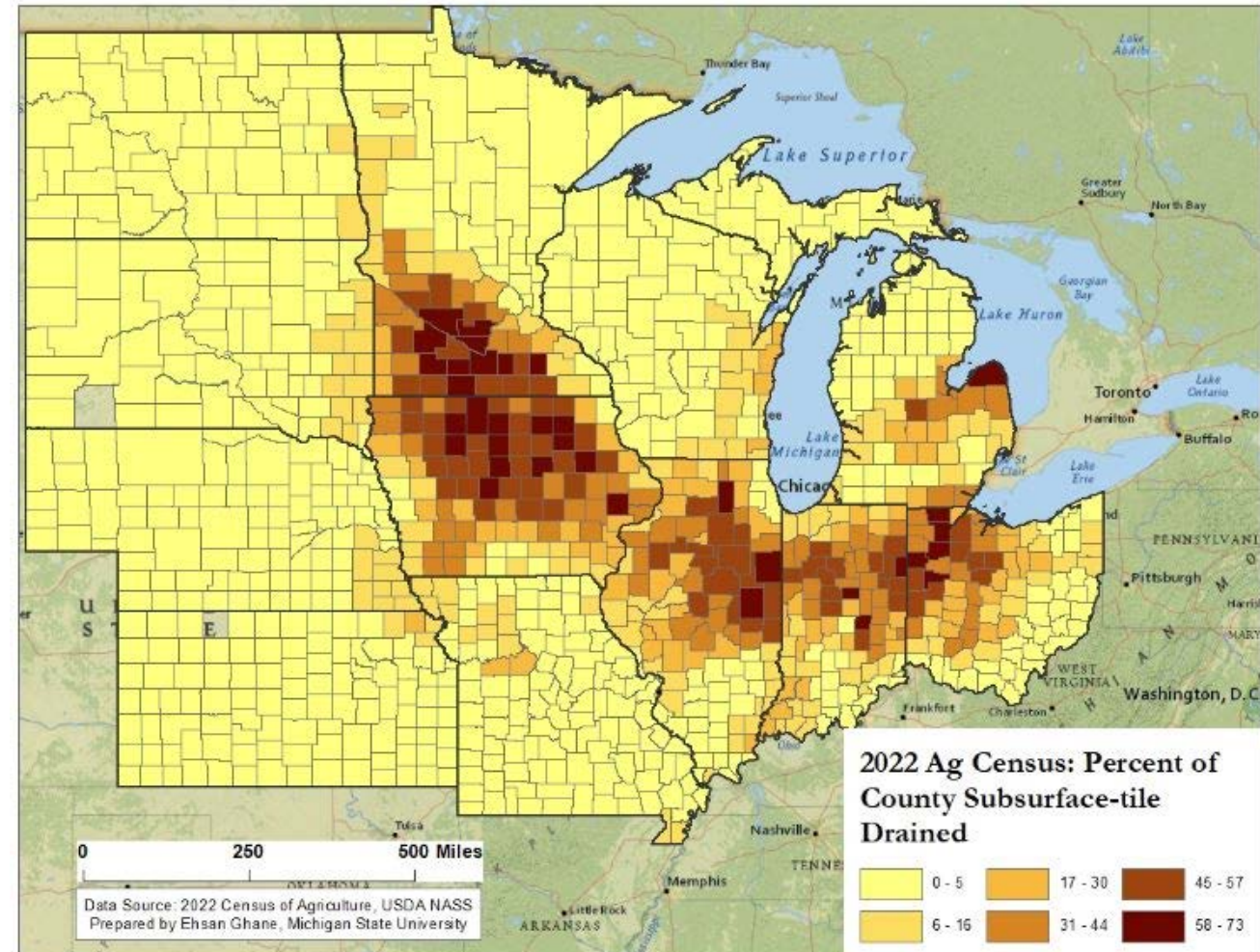
# Agricultural Landscape & Water Management Challenges in the Midwest

**Tile drainage systems and other modifications to hydrology** increase vulnerability to weather fluctuations

**Moving away from diversified ag systems** to predominantly corn/soy rotations leaves agricultural land uncovered half the year

**Rapid water runoff** from fields:

- Exacerbates flooding downstream
- Carries away nutrients, creating problems elsewhere





# Nature-Based Solutions

- Cover crops
- Diverse rotations
- Reduced tillage
- Buffer strips
- Prairie strips
- Wetlands
- Floodplain restoration





# Why?

- Wetlands and floodplains are our natural sponges; they capture runoff, trap sediment, remove excess nutrients, and hold water that would otherwise rush downstream, mitigating both floods and droughts.
- Reforestation can significantly improve water quality by absorbing pollutants from surface runoff. Reforestation can also minimize soil erosion, stabilize riverbanks, and reduce flood damage.
- Cover crops, winter oilseeds, and permanent crops diversify income streams and reduce risk for farmers while delivering environmental benefits.





# Barriers & Potential Solutions

- **Challenge:** Identifying who pays for water quality improvements
- **Water quality trading** is one approach, but:
  - Often limited without regulatory drivers for non-point source pollution
- **Multi-benefit and multi-payer partnerships** are key





# Cedar Rapids

- Watershed planning to target key areas for conservation practices
- Technical assistance to later adopters
- Partnerships with ag retail to reach new audiences
- Multi-payer: Stacked payment to farmers (SWOF)
- Multi-benefit
  - Water quality
  - Flood risk reduction
  - Wildlife habitat





# Lower River Reforestation

- Watershed planning to target key areas for floodplain restoration and bottomland hardwood reforestation
- Technical assistance to landowners
- Multi-payer: Wetland Reserve Easement (WRE) + recreation fees + carbon payments
- Multi-benefit
  - Water quality
  - Flood risk reduction
  - Wildlife habitat
  - Job creation
  - Carbon sinks





# Catalyzing Culture Change

Collaboration and mindset shifts as  
levers for water and soil resilience





# Shifting Mindsets & Driving Collaboration

- **Embrace risk** and experiment with new approaches
- Focus on **system-level thinking** for long-term impact
- Real progress happens when we:
  - **Stack benefits**
  - **Align interests**
  - **Work together across sectors and communities**

