Welcome to *The Current*, the North Central Region Water Network's Speed Networking Webinar Series

State Water Quality Initiative Round Robin: 2pm CT

Submit your questions for presenters via the Q&A panel. There will be a dedicated Q&A session following the last presentation. The Q&A panel can be found via the Q&A icon at the bottom of the webinar screen.

If you are experiencing technical issues or have questions about the North Central Region Water Network or *The Current* Webinar Series, please use the chat feature. The chat feature is accessible via chat icon at the bottom of the webinar screen.

A phone-in option can be accessed by clicking the up arrow on the mute icon and clicking 'Switch to Phone Audio'.

This session will be recorded and available at northcentralwater.org.

Eugene Braig

Eugene Braig is a fisheries biologist, is Program Director for Aquatic Ecosystems with OSU Extension, and teaches fisheries management at OSU's School of Environment and Natural Resources. He represents the state of Ohio on the Mississippi River Basin Panel of the national Aquatic Nuisance Species Task Force and the US's upper Great Lakes region on the governing board of the North American Lake Management Society. Eugene was recently appointed as a Trustee of the Ohio Biological Survey, serves on the Olentangy State Scenic River Advisory Council, is the current Vice President of the Water Management Association of Ohio, and is active with several additional committees/councils and professional organizations. On the side, he moonlights as a classical musician and serves as Artistic Director of the Columbus Guitar Society's concert series.

Today's Presenters:

- **Paul Gardner**, Administrator, Clean Water Council, Minnesota Pollution Control Agency - *Accelerating Clean Water Progress with Minnesota's Voter-Approved Clean Water Fund*
- **Eric Saas**, H2Ohio Program Manager, Ohio Department of Natural Resources - *Wetlands for Water Quality: The Ohio Department of Natural Resources H2Ohio Program*
- **Stacie Minson**, Watershed Specialist, Kansas State Research and Extension – *State Water Quality Initiatives in Kansas: Kansas Reservoir Protection Initiative (KRPI)*

Paul Gardner

Paul Gardner is the Administrator of the Clean Water Council, a Minnesota state advisory council that recommends how to use the Clean Water Fund to the Governor and Legislature and on the implementation of the state's Clean Water Legacy Act. Paul has worked for 20 years in the solid waste and recycling industry and served as a member of the Minnesota House of Representatives from 2007 to 2010, where he passed several water-related measures.

Improving Minnesota's Water Quality with the Clean Water Fund

MINNESOTA
CLEAN WATER COUNCIL

Paul Gardner, Administrator

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August 11, 2021 North Central Region Water Network

CLEAN WATER LAND & LEGACY AMENDMENT

What MN Can Do with the Clean Water Fund

- Pinpoint where to deploy funding instead of guessing
- Fund watershed plan recommendations, not just plans
- Empower and persuade Minnesotans to make the right choice for water quality with technical and financial assistance
- Measure progress
- Do it with 25 years of steady funding

MINNESOTA
CLEAN WATER COUNCIL

- Every two years, recommends how to spend the **Clean Water Fund**

Agencies represented:

- Department of Agriculture
- Department of Natural Resources
- Department of Health
- Board of Water and Soil Resources
- Minnesota Pollution Control Agency
- Metropolitan Council
- Public Facilities Authority
- University of Minnesota

Voting members (17)

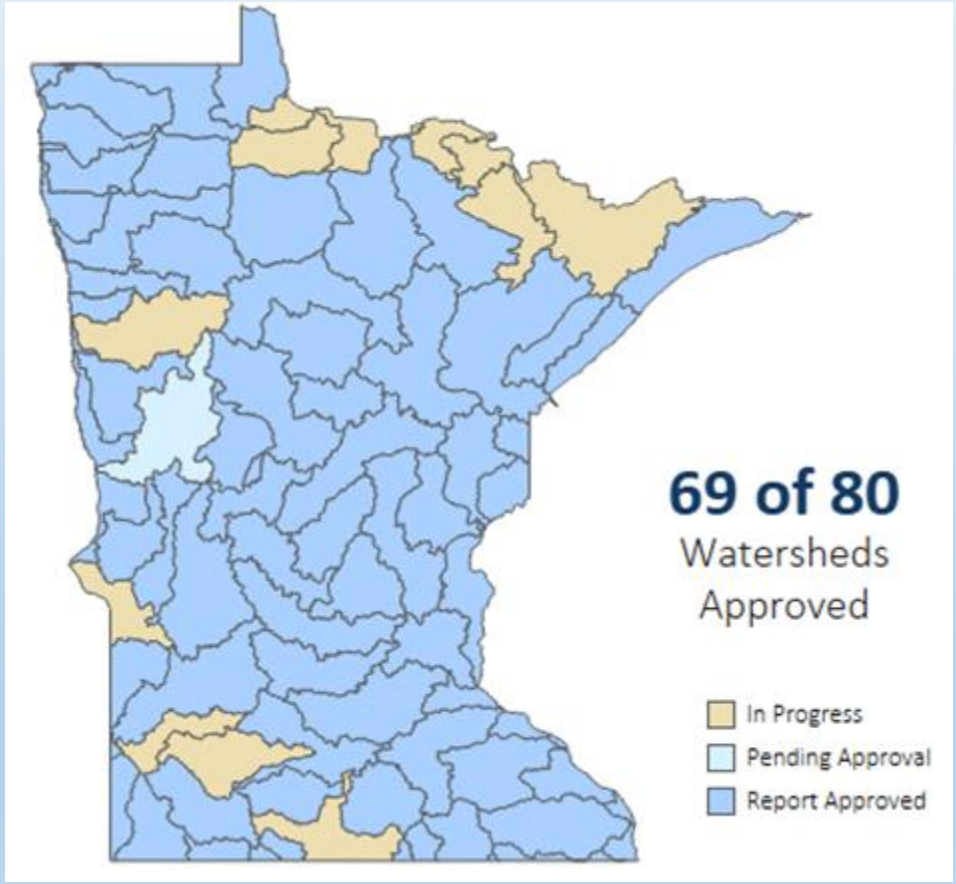
- Counties (2) (Metro, Greater MN)
- Townships (1)
- Municipalities (2)
- Farm organizations (2)
- Environmental organizations (2)
- Tribal government (1)
- Business (2)
- Fishing organizations (1)
- Hunting organizations (1)
- Lakes/Streams nonprofits (1)
- Watershed districts (1)
- Soil & Water Conservation Districts (1)

Clean Water, Land, and Legacy Amendment

- 2008: Voters Approved Constitutional Amendment to raise sales tax by 3/8%
- 33% to Clean Water Fund
- "May be spent only to protect, enhance, and restore water quality in lakes, rivers, and streams and to protect groundwater from degradation, and at least five percent of the clean water fund must be spent only to protect drinking water sources"
- More than $1.3 billion appropriated from FY2010 to FY2023 just for clean water
- Must *supplement*, not supplant, existing $$
- Expires 2034—we are half way there

What We Get: Surface Waters

- Intensive monitoring of all watersheds every ten years
- Blueprint for Improvement: Watershed Restoration & Protection Strategies (WRAPS)
- Locally driven comprehensive watershed management plans to prioritize projects
- Money to fund the top priorities in the plans (implementation)
- Evaluation of progress



DO THESE PROJECTS → **BY YEAR** → **AND YOU GET THESE REDUCTIONS** → **AND IT WILL COST**

Drainage	Treatment Group Type & Number of BMPs	Cost	Issue	Unit	Existing Conditions	Quantitative Measurable Goal				PTMApp Scenario Reduction	5 year Load Reduction Goal	10 year Load Reduction Goal	10 yr. Progress towards Measurable Goal (%)
						Metric	Amount (%)*	Target Load Reduction	Year				
Drainage to Mississippi River	Storage (244) Filtration (78) Infiltration (3) Source Reduction (812)	$6,437,605	Sediment	tons/ yr	116,416	Annual Load (mass/yr.)	45	52,387	2025	14,488	7,244	14,488	28
			Nutrients: Total Nitrogen	lbs/yr	10,848	Annual Load (mass/yr.)	45	4,882	2040	112	56	112	2
			Nutrients: Total Phosphorus	lbs/yr	134	Annual Load (mass/yr.)	45	60	2025	12	6	12	20
			Excess Runoff: 2 Year	acre feet	71,177	2-Yr. Runoff Volume	25	17,794	2030	N/A	N/A	N/A	N/A
			Excess Runoff: 10 Year	acre feet	167,868	2-Yr. Runoff Volume	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Drainage to Upper Iowa River	Storage (44) Filtration (15) Source Reduction (268)	$1,410,038	Sediment	tons/ yr	112,249	Annual Load (mass/yr.)	45	50,512	2025	27,776	13,888	27,776	55
			Nutrients: Total Nitrogen	lbs/yr	32,828	Annual Load (mass/yr.)	45	14,773	2040	3,285	1,642	3,285	22
			Nutrients: Total Phosphorus	lbs/yr	2,024	Annual Load (mass/yr.)	45	911	2025	360	180	360	40
			Excess Runoff: 2 Year	acre feet	7,781	2-Yr. Runoff Volume	25	1,945	2030	N/A	N/A	N/A	N/A
			Excess Runoff: 10 Year	acre feet	17,036	2-Yr. Runoff Volume	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Excerpt from Root River "One Watershed One Plan"

What We Get: Drinking Water

- ~20% spent on protecting drinking water sources
- 920 community groundwater systems
- Monitoring, assessment, characterization (monitoring wells, geologic atlases, health guidance, Drinking Water Supply Protection Area-DWSMA)
- DW Source Protection Plans; Funding half of the activities in the plans
- Nitrogen Fertilizer Management Plan
- Lots of interagency collaboration

Thank you!

Eric Saas

Eric Saas is the H2Ohio Program Manager at the Ohio Department of Natural Resources (ODNR). The H2Ohio initiative is Ohio Governor Mike DeWine's multi-Agency, collaborative water quality effort to ensure safe, clean water for all Ohioans. ODNR's role within H2Ohio is to restore wetland ecosystems and their natural capacity to reduce surface water pollution.

Eric has been working for ODNR in-person or virtually since December of 2019; prior to that he was a proud front-line surface water sampler and water quality modeler at Ohio EPA for over a decade. He is a Muskingum University and University of New Hampshire alum, and in his spare time he especially enjoys sharing his love of camping, kayaking and hiking with his family.

OHIO DEPARTMENT OF NATURAL RESOURCES

ODNR'S H2Ohio PROGRAM

Wetlands for Water Quality

ERIC SAAS

H2Ohio Program Manager, ODNR

COLLABORATION

H2Ohio

PROTECTING OHIO'S WATER

OHIO DEPARTMENT OF NATURAL RESOURCES

MIKE DEWINE
GOVERNOR OF OHIO

Ohio | Lake Erie Commission

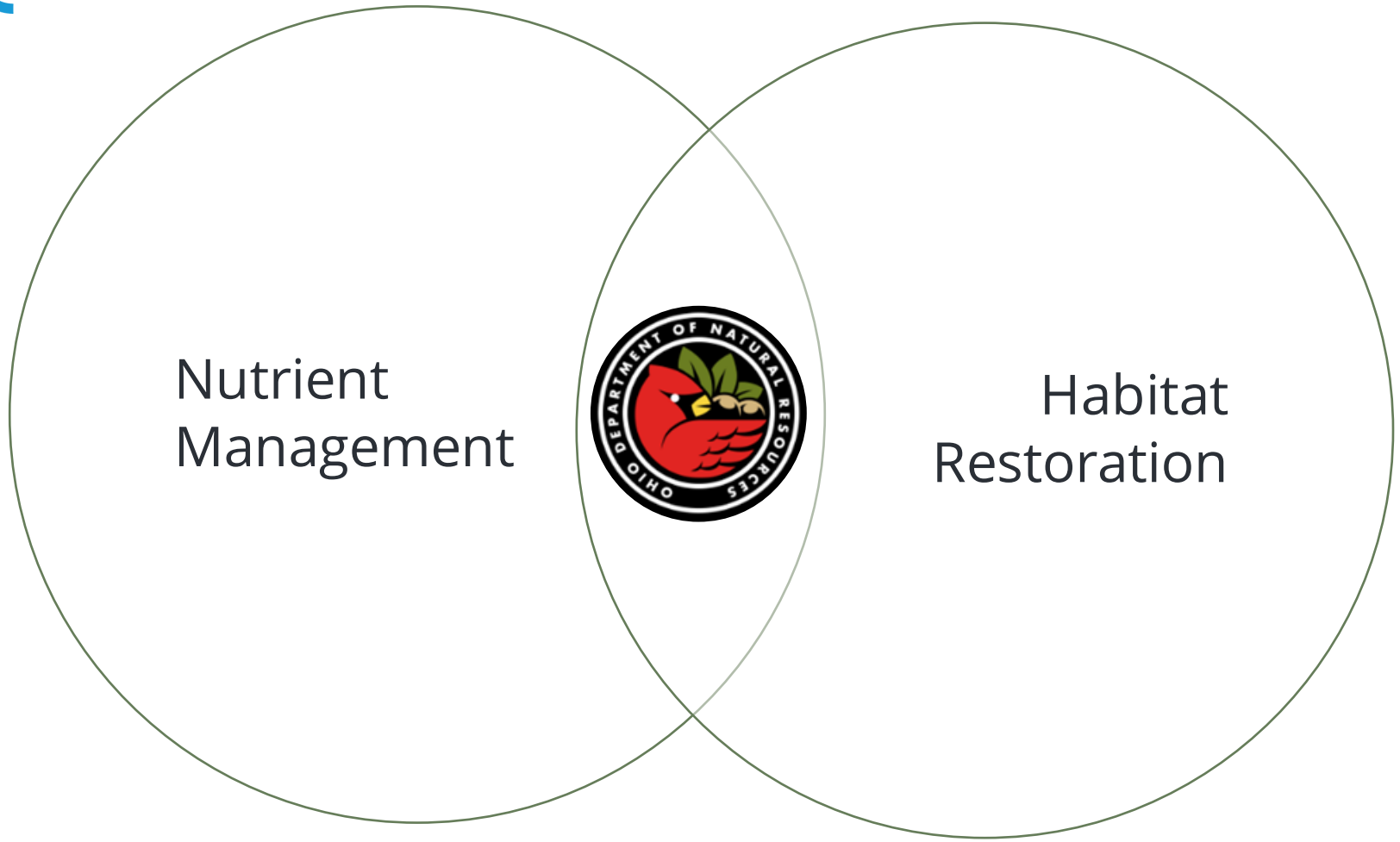
Ohio Environmental Protection Agency

Ohio Department of Agriculture

NATURAL INFRASTRUCTURE APPROACH

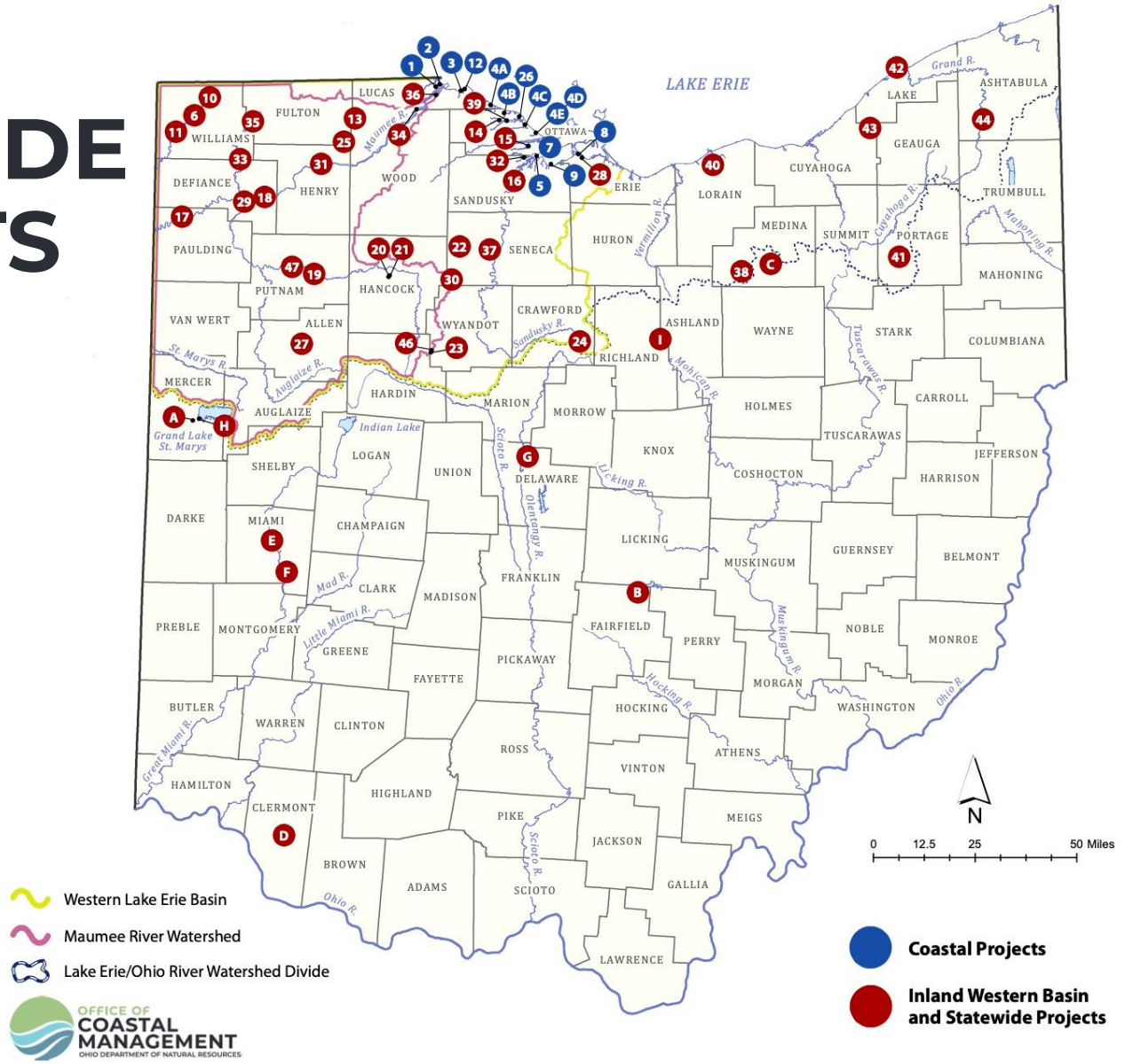
- Cost effective
- Long-term
- Additional benefits to wildlife and society

H2Ohio



H2Ohio

STATEWIDE PROJECTS



July 28, 2021

Lake Erie Basin Projects

1	Cullen Park Wetland Restoration
2	Grassy Island Wetland Restoration, Design Phase
3	Maumee Bay State Park Wetland Reconnection
4A	Ottawa National Wildlife Refuge Wetland Reconnection Projects
4B	Magee Marsh Turtle Creek Bay Wetland Reconnection
4C	Toussaint Shooting Club Reconnections: Bob's Bay & Main Marsh
4D	Bohling Marsh Wetland Reconnection
4E	Darby Refuge Wetland Reconnection
5	Muddy Creek Bay Wetland Restoration
6	Montpelier Wetland Restoration
7	Inner Bay Shoals & Islands Restoration, Design Phase
8	Moxley Wildlife Area Wetland Reconnection Project
9	Inner Bay Coastal Wetlands Restoration, Design Phase
10	St. Joseph Confluence Wetland Reconnection
11	St. Joseph's River Restoration Project
12	Mallard Club Nutrient Reduction and Orchid Restoration
13	Oak Openings Preserve Wetland Restoration
14	North Ridge Hunt Club Wetland Restoration
15	Little Portage Nutrient Reduction & Coastal Wetland Restoration
16	Redhorse Bend Preserve Wetland Restoration
17	Forder Bridge Floodplain Reconnection
18	Independence Dam Canal Reconnection & Wetland Creation
19	Blanchard River Floodplain Restoration
20	Oakwoods Nature Preserve Wetland Restoration Project, West
21	Oakwoods Nature Preserve Wetland Restoration Project, East
22	Fruth Wetland Nature Preserve
23	Andreoff Wetland Restoration
24	Sandusky River Headwaters Preserve Wetland & Habitat Restoration
25	Van Order Wetland & Forest Restoration
26	Navarre Marsh Wetland Restoration & Reconnection
27	Baughman Petition Ditch
28	Sanford Agricultural Drainage Treatment Train Project
29	Defiance East River
30	Springville Marsh Wetland Extension
31	Maumee River Floodplain
32	Buehler Farms Treatment Wetland
33	The Weisgerber-Pohlman Nature Preserve
34	Clark Island Restoration, Design Phase
35	Goll Woods Wetland Extension
36	Duck and Otter Creek Wetland and Stream Restoration
37	Clary-Boulee-McDonald Nature Preserve
38	Bluebell Preserve Restoration Project
39	Rust Tract Wetland Restoration
40	Martin's Run Wetland and Stream Restoration Project
41	The Bird Family Bog Rehabilitation Project
42	Headlands Dunes Coastal Wetland Restoration Project
43	Fosters Run Restoration
44	Ashcroft Woods Scali Preserve
46	Upper Blanchard River Watershed Project
47	Sugarcamp 7 Blanchard Habitat Project

Ohio River Basin Projects

A	Burntwood-Langenkamp Wetland Conservation Area
B	Brooks Park Wetland Creation & Water Quality Initiative
C	Chippewa Lake Wetland Restoration
D	East Fork Lake Nutrient Reduction & Wetland Initiative
E	Springcreek Confluence Off-Channel Wetlands
F	Tipp City Off-Channel Wetland
G	O'Donnell Wetland Restoration and Treatment Train
H	Mercer Wetland Complex Restoration
I	Black Fork Forest Preserve Wetland Restoration Project

H2Ohio WETLAND PROGRESS

H2Ohio BY THE NUMBERS

59 wetland projects

$64.5 Million to support wetland project implementation.

$4.3 Million allocated to establish independent project monitoring program

25 nonprofit conservation partners engaged.

104,000 acres of watershed filtered by wetland projects.

8,405 wetland acres to be created, restored or enhanced.

$5 Million allocated to incentivize landowners to establish wetlands and wooded riparian buffers through Lake Erie CREP enrollment.

90 threatened or endangered species dependent on wetlands; many will benefit from this additional habitat.

+20K trees have been planted in wetland buffers.

OHIO DEPARTMENT OF NATURAL RESOURCES

ACCOUNTABILITY

MONITORING PROGRESS

THANK YOU

Let’s stay in touch.

ERIC
SAAS
Eric.Saas@dnr.ohio.gov

H2.ohio.gov/Natural-Resources

Twitter: @H2ohio

OHIO DEPARTMENT OF

NATURAL RESOURCES

ohiodnr.gov

NORTH CENTRAL REGION WATER NETWORK

Stacie Minson

Stacie Minson earned a bachelor degree in Animal Sciences and Industry from Kansas State University (KSU) in 1995. Minson currently serves as the KSU Big Creek Middle Smoky Hill River Watershed Specialist and has held this position since 2003. She was charged with developing, writing and implementing an EPA Approved 9 Element Watershed Plan to address water quality issues and TMDLs in Kanopolis Reservoir (2,400 square mile watershed) in partnership with the Kansas Department of Health & Environment. In addition to the implementing the 9 Element plan, in 2019, an approved Strategic Plan for the Kanopolis WRAPS was written and is in the process of being implemented by working with local landowners in installing BMPs to reduce TMDLs. Prior to this position, she served as Trego County Extension Agriculture Agent for 7 years. In both positions she has gained valuable experience in working as part of collaborative teams to accomplish goals in program areas of agriculture, environment, and adult and youth outreach and education.

State Water Quality Initiatives in Kansas

Kansas Reservoir Protection Initiative (KRPI)

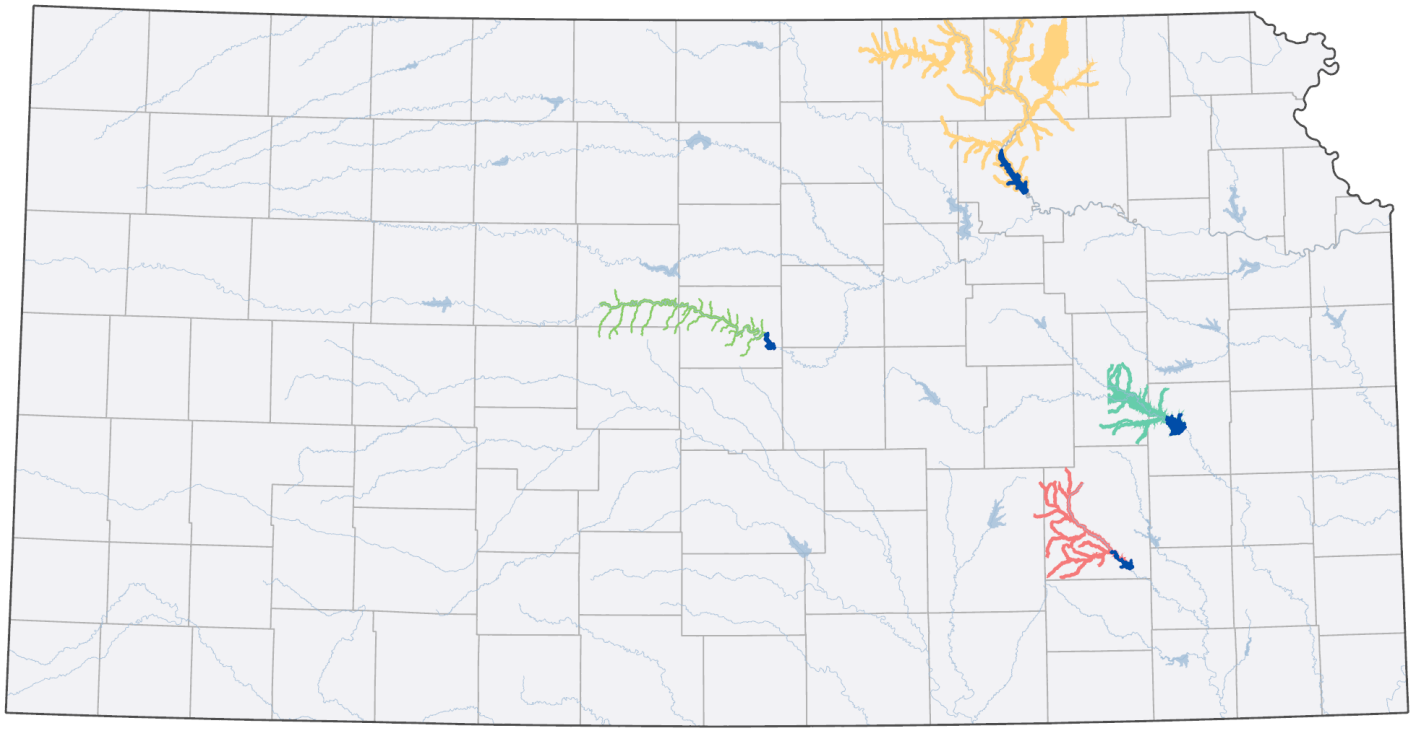
- Established SFY 2019 with Legislative Appropriations
- Annually $550,000 - $900,000/year
- Goal – Sediment Reduction Above Federal Reservoirs

State Water Quality Initiatives in Kansas

Kansas Reservoir Protection Initiative (KRPI)

- 4 Federal Reservoirs
  - Kanopolis
  - Tuttle Creek
  - John Redmond
  - Fall River

Kansas Reservoir Protection Initiative Priority Implementation Areas



July 2021

Kansas Water Office

KCARE
Kansas Center for Agricultural Resources and the Environment

www.kcare.k-state.edu

K-STATE Research and Extension

State Water Quality Initiatives in Kansas

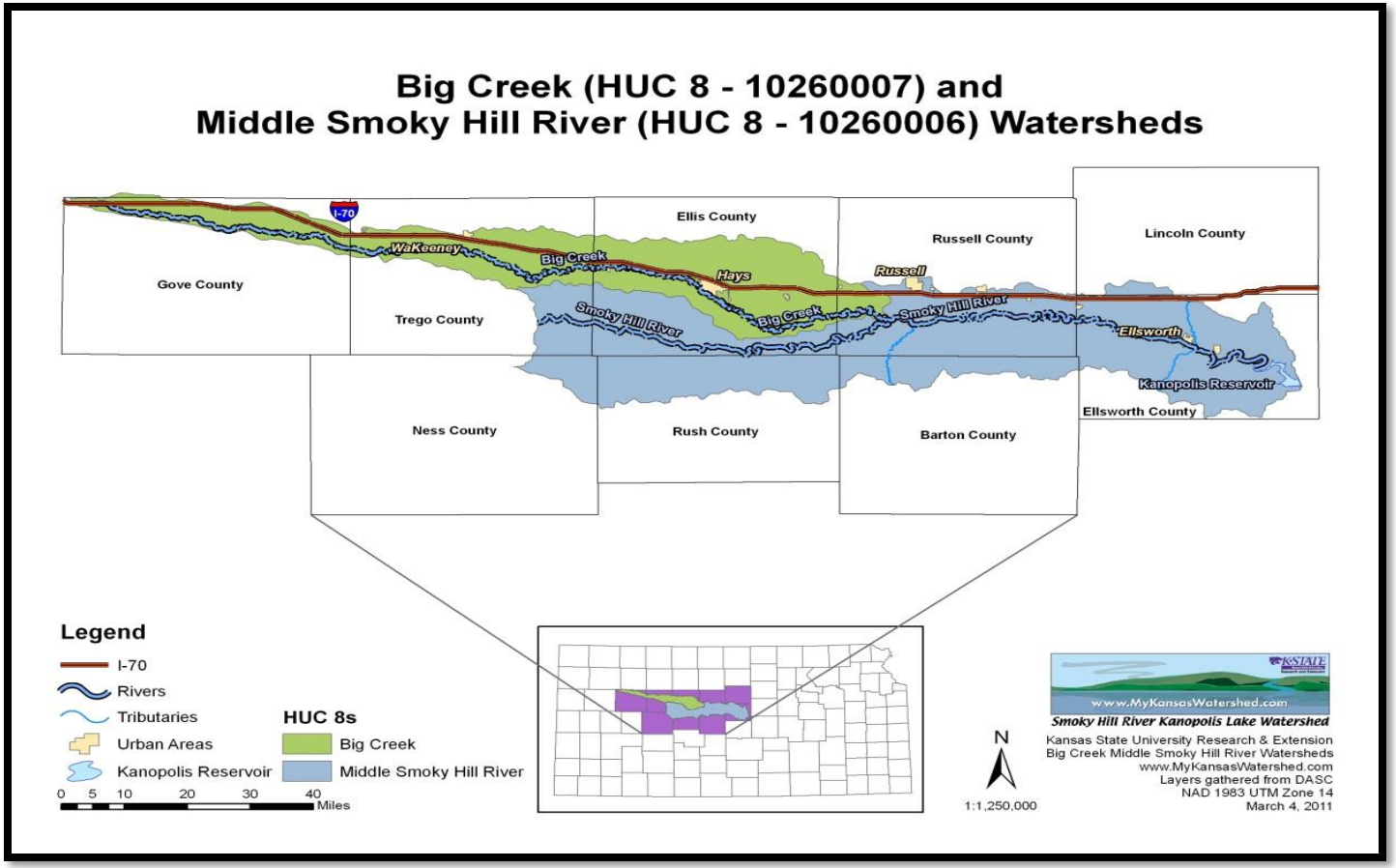
Kansas Reservoir Protection Initiative (KRPI)

- Focus on Sedimentation Reduction
  - BMPs focused on:
    - Cover Crops
    - No-Till (Sediment Reduction Incentive – SRI)
    - Critical Area Planting (SRI)
    - Grassed Waterways (SRI)

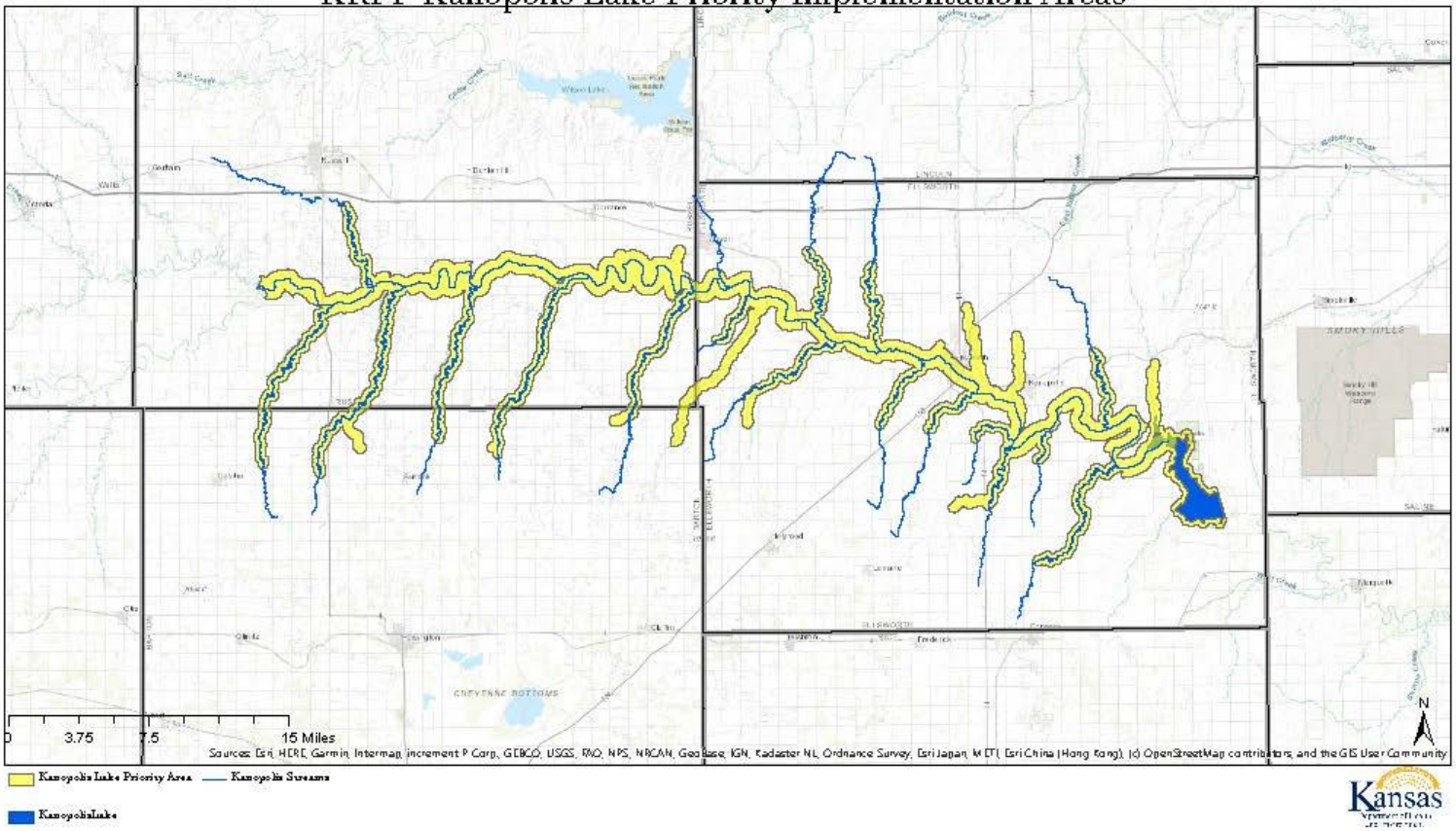
State Water Quality Initiatives in Kansas

Kansas Reservoir Protection Initiative (KRPI)

- Partners
  - Kansas Legislature
  - Kansas Water Office
    - Regional Advisory Committees
  - Kansas Department of Ag – Division of Conservation
    - Local Conservation District Offices/Boards
  - Kansas Department of Health & Environment
  - WRAPS Groups (including Kansas State University)


Big Creek (HUC 8 - 10260007) and
Middle Smoky Hill River (HUC 8 - 10260006) Watersheds
I-70
WaKeeney
Big Creek
Hays
Russell
Smoky Hill River
Big Creek
Smoky Hill River
Ellsworth
Kanopolis Reservoir
Gove County
Trego County
Ellis County
Russell County
Lincoln County
Ellsworth County
Ness County
Rush County
Barton County
Legend
I-70
Rivers
Tributaries
Urban Areas
Kanopolis Reservoir
HUC 8s
Big Creek
Middle Smoky Hill River
0 5 10 20 30 40
Miles
N
1:1,250,000
www.MyKansasWatershed.com
Smoky Hill River Kanopolis Lake Watershed
Kansas State University Research & Extension
Big Creek Middle Smoky Hill River Watersheds
www.MyKansasWatershed.com
Layers gathered from DASC
NAD 1983 UTM Zone 14
March 4, 2011

KRPI Kanopolis Lake Priority Implementation Areas



State Water Quality Initiatives in Kansas

Kansas Reservoir Protection Initiative (KRPI)

- BMPs focused on Load Reductions for Sediment and Nutrients
  - Producers can reapply for additional acres
  - Bringing new producers to the project

State Water Quality Initiatives in Kansas

Kansas Reservoir Protection Initiative (KRPI)

- Innovative, non-traditional, collaborative
- $$$ is based on performance of load reductions
- State & Local Partners

State Water Quality Initiatives in Kansas

Kansas Reservoir Protection Initiative (KRPI)

- To date: $2,152,133 approved contracts &/or paid contracts
- 551 contracts with 428 in Cover Crops (77%)
- 123 contracts Sediment Reduction Incentives (23%)

State Water Quality Initiatives in Kansas

Kansas Reservoir Protection Initiative (KRPI)

- Cover Crop Payments
  - $45.00/acre Year 1
  - $30.00/acre Year 2
  - $15.00/acre Year 3
- Sediment Reduction Incentives
  - $50.00/ton

State Water Quality Initiatives in Kansas

Kansas Reservoir Protection Initiative (KRPI)

Questions?

Check out my website:
www.MyKansasWatershed.com

Stacie Minson, KSU Watershed Specialist

Big Creek Middle Smoky Hill River Watersheds – Kanopolis Reservoir

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KCARE
Kansas Center for Agricultural Resources and the Environment

K-STATE
Research and Extension

Question and Answer Session

We will draw initial questions and comments from those submitted via the Q&A panel during the presentations.

Today's Speakers

Paul Gardner – Paul.Gardner@state.mn.us
Eric Saas – Eric.Saas@dnr.ohio.gov
Stacie Minson – Sedgett@ksu.edu

Thank you for participating in today's *The Current*!

Visit our website, northcentralwater.org, to access the recording and our webinar archive!

Upcoming webinar from our soil health team, The Soil Health Nexus:

Do Soil Health Tests Match Farmers' Experiences? with Brendan O'Neill
Next Wednesday, August 18th at 2pm CT
https://soilhealthnexus.org/