

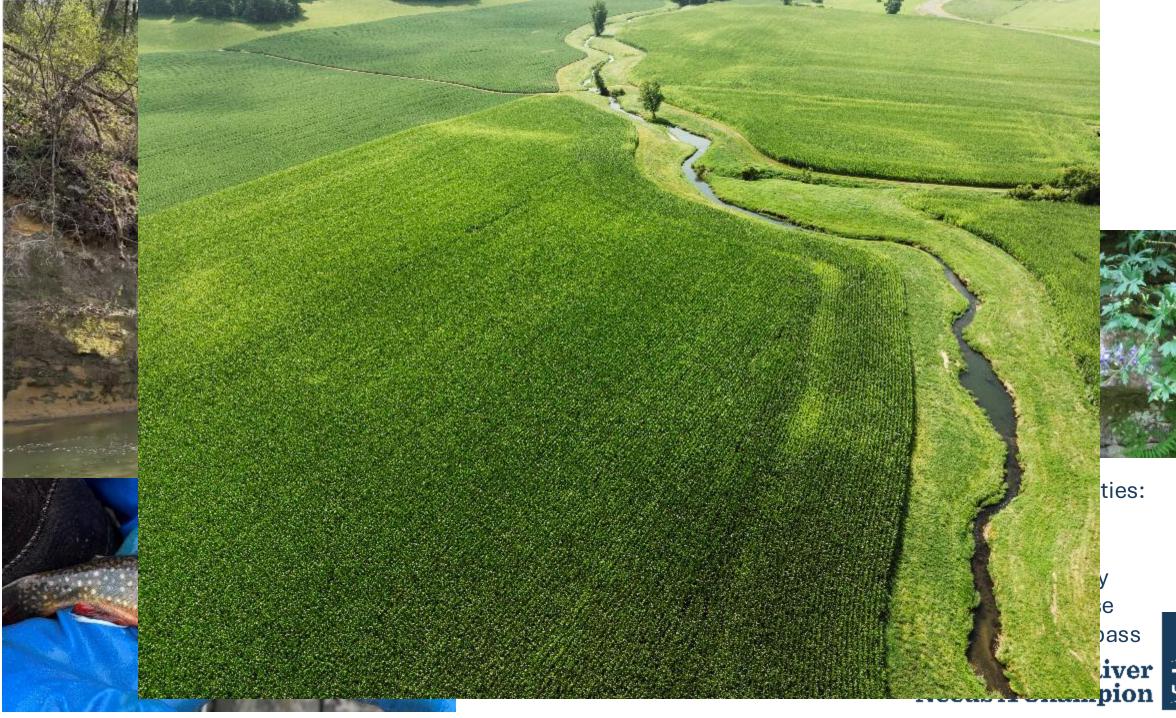
Driftless Area Restoration Effort

Presented to the National Fish Habitat Board



September 18, 2025 Minneapolis, MN

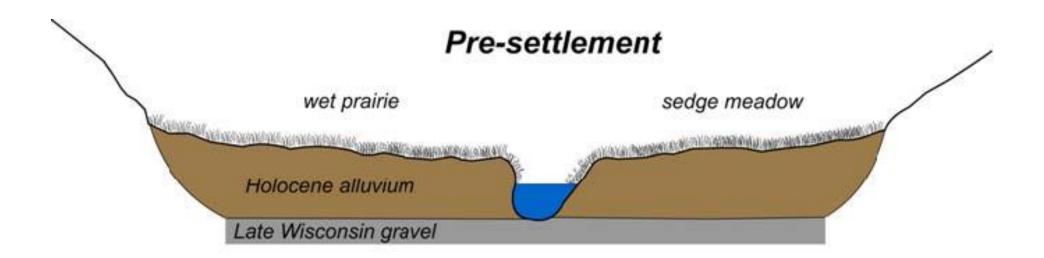


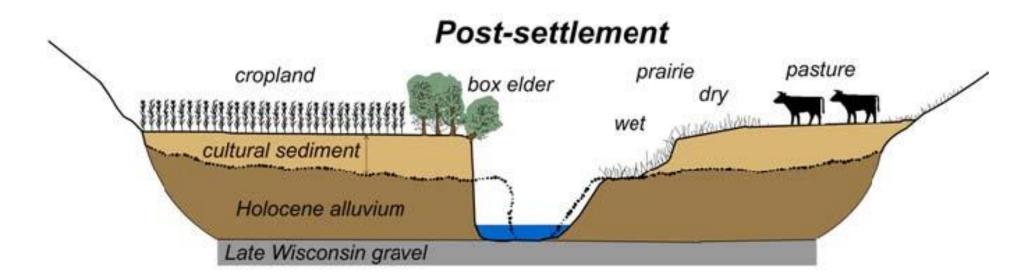
















Fish Habitat Partnerships March 2008



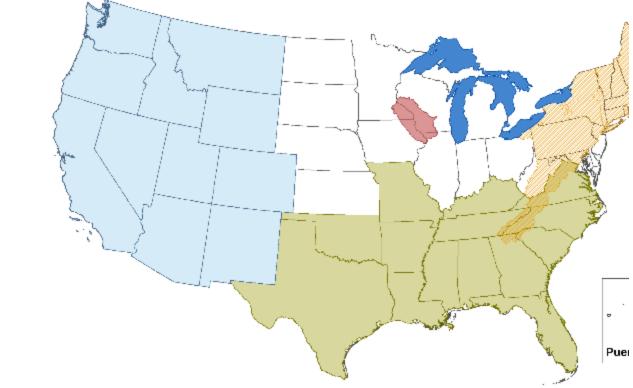


Eastern Brook Trout Joint Venture

Western Native Trout Initiative

Driftless Area Restoration Effort

Matanuska-Susitna Basin Salmon Conservation Partn



The First Cohort

DARE among the first partnerships

 The Driftless Area Restoration Effort has its origin story in a 2004 grassroots meeting among TU chapters and partners to expand restoration efforts through collaboration







remote sensing



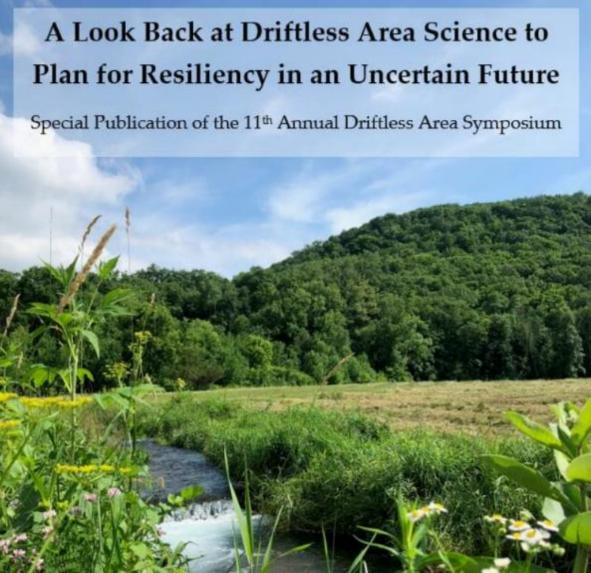
Article

Applying High-Resolution Satellite and UAS Imagery for Detecting Coldwater Inputs in Temperate Streams of the Iowa Driftless Region

Niti B. Mishra 1,2,* 0, Michael J. Siepker 3 and Greg Simmons 4

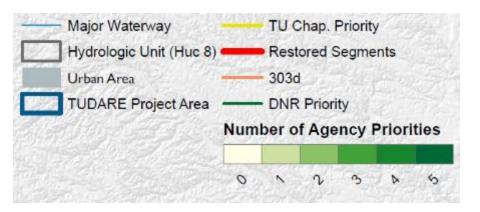


Annual Driftless Area Symposiums 2006 to present

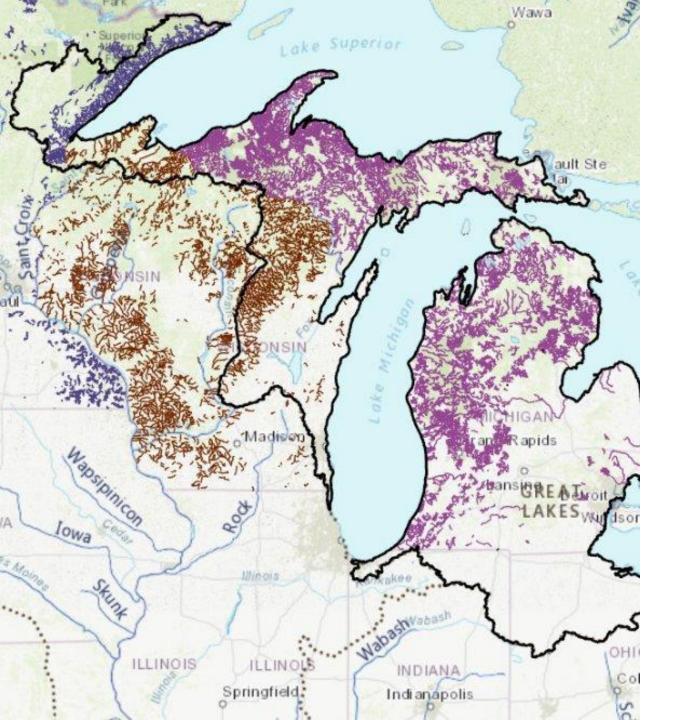


neapolis--St. Paul Rochester IOWA Cedar Rapids Iowa City

Our landscape & shared priorities





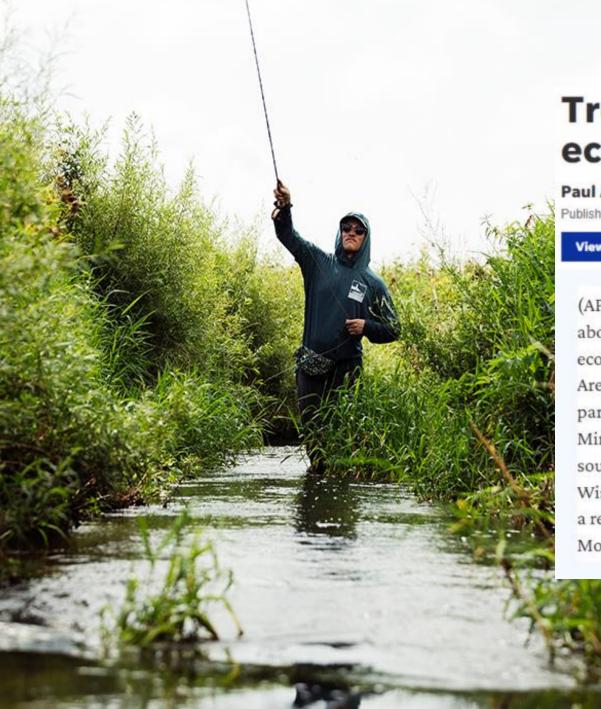


Conservation Portfolio

Brook Trout Conservation across the native range

- -New analysis for the Driftless Area
- -Updated analysis for the Great Lakes
- -New components and analysis for Eastern Brook Trout Joint Venture





Trout fishing has \$1.6 billion annual economic impact in Driftless Area

Paul A. Smith Milwaukee Journal Sentinel

Published 4:28 p.m. CT May 6, 2017 | Updated 8:08 p.m. CT May 6, 2017

View Comments









(AP) - Fishing generates about \$1 billion for the economy of the Driftless Area, which includes parts of southeastern Minnesota and southwestern Wisconsin, according to a report released Monday.

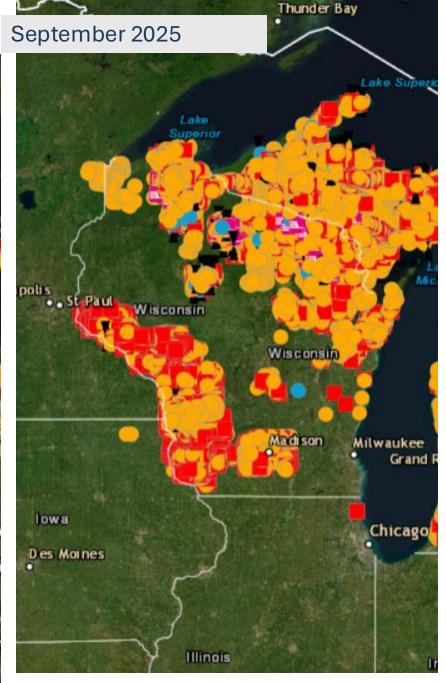














Meet Wisconsin's Sculpin'- Cryptic Secrets of the Streams! Learn identification and the importance of these elusive fish and collaborate with others passionate about sculpin! Observe mottled and slimy sculpin that are native to Wisconsin coldwater streams! SCONSIN Kick-off the upcoming graduate research project focused on sculpin in the Kickapoo

WDNR Maple Dale Creek fishing area parking lot: H55F+J4 Viroqua, Wisconsin

May 17th, 2025 10:00am-12:00pm

RIVER STUDIES CENTER





River drainage.



Education & Outreach

DARE-funded science

- Co-hosted with UW-L and Native Fish Coalition
- Local newspaper reporter attended
- Partners and citizens participated



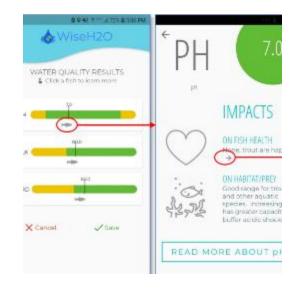


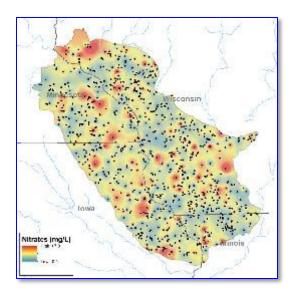
WiseH2O Water Quality by Anglers

A mobile-app based water quality assessment for education & outreach









Test strip-based

Parameters: pH, phosphorus, nitrogen, alkalinity, hardness, temperature, turbidity Mobile phone submitted

Portable, quick, requires few supplies

Immediate results

Results are viewed immediately and interpretive information explains the data for water quality and fish impacts

Crowdsourced database

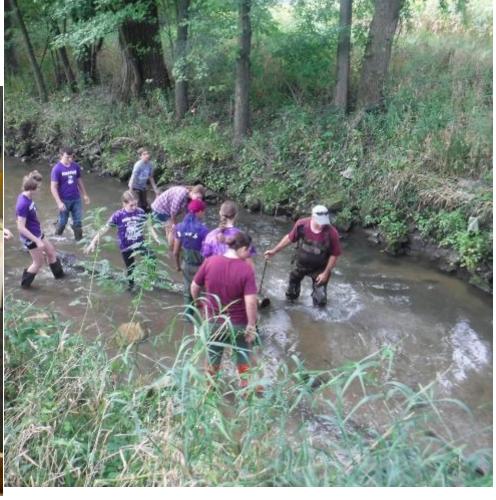
Data are backed up to a database that can be used for further research or evaluation



Youth

DARE reaches youth through hands on activities





Waterfestivals & Environmental Days

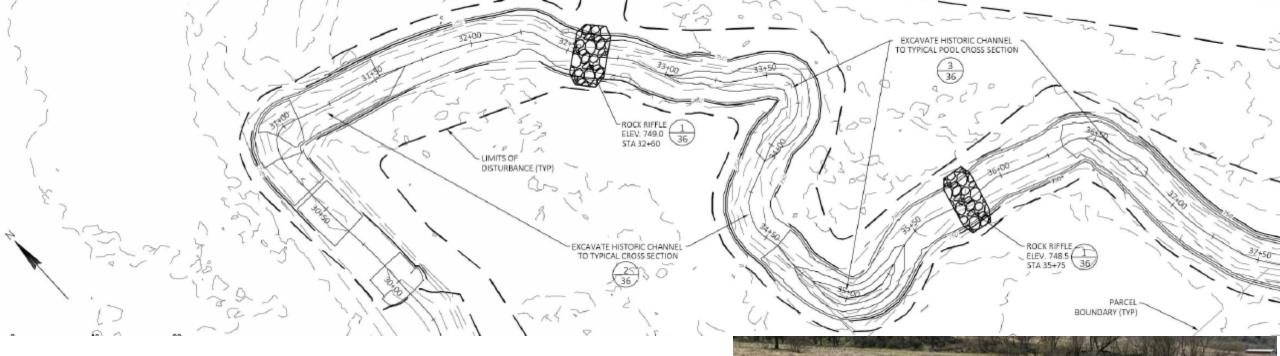
Habitat Boxes

Build Habitat









Stream Restoration

Riffles, pools, meanders

The stream restoration focal objectives are:

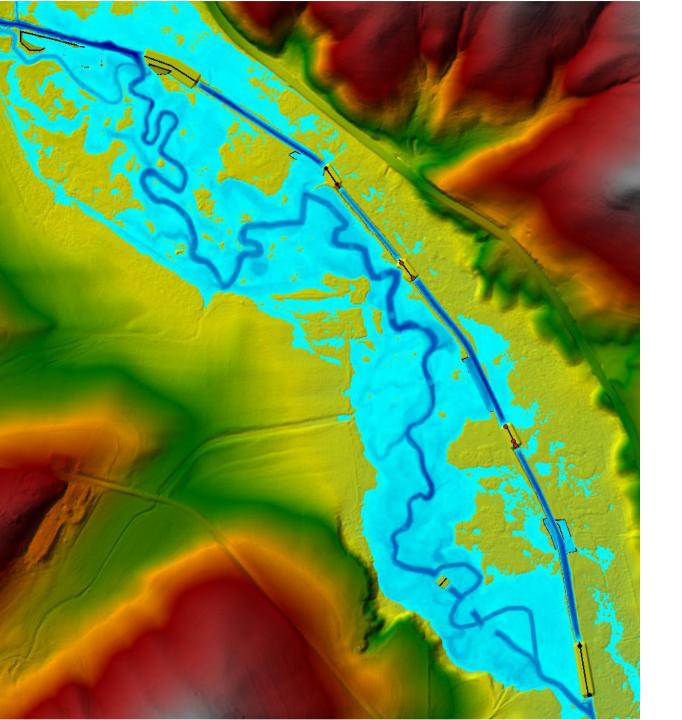
- -Reconnect the channel with the floodplain
- -Remove the drainage effects of the ditch to restore 50 acres of sedge wetland
- -Create habitat within the channel with riffle and wood installations over 6,000'
- -Outcome of increasing trout occupancy and demographics

-Dampen flood pulses

- -Increases stream length by 2,700'
- -Improve groundwater channel connectivity







Floodplain Connectivity

Restoring Interaction

 Project will cut off flow in the ditch and reroute flows into the historic meander channel

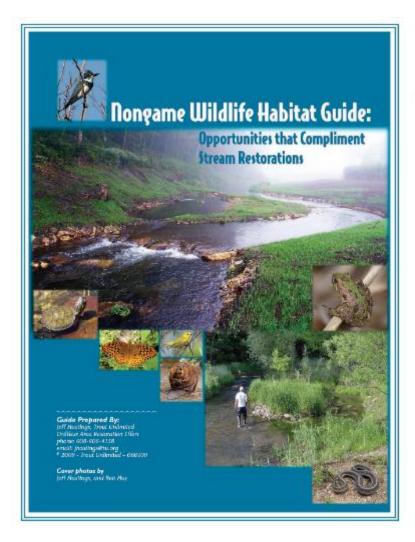












Birds(Class Aves)

Birds are warm-blooded species that maintain stable internal body temperatures regardless of extrensiinfluences. Because winters in the Midwest impact food availability for many birds, they migrate south to take advantage of warmer climates where occess to food resources is not limited by cold temperatures, loe or insensoils. This includes many of the riverine and wetland-associated birds. Most water-associated non-game bird species full into the categories of insectivores

(which eat invertebrates including insects), piscivores (which eat primarily fish), or conniveres (more general predators, which ent a wide variety of prey including Insects, fish, amphibians, reptiles and small mammals. along with welland/aquatic regetation and seeds. A wide variety of birds can be found along stream corridors, but are not dependent on these habitats alone.





Shallow wetlands, low gradient shorelines of ponds, multilats and backwater areas along streams provide excellent foraging areas for wading birds. Perches over the water are important for a variety of insect enting birds such as eastern kingbirds and for fish eaters like the belted kingfisher. Doad trees provide perching areas for howks and other birds and can provide structure for nesting and foraging. Vertical banks run he important nesting habitate for bank swallows and kingrishers. Varied habitat structure finess, brush and grassfanda in riporion hobitots can provide a variety of nesting opportunities.

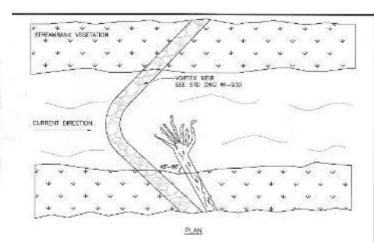
Invertebrates (protozoa, annelids, mollusks, arthropods, crustaceans, arachnids and insects)

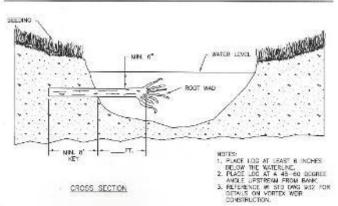
This exceedingly diverse group of species is the backbone or base of the animal food chain and as a result is perhaps the most important. Providing for the life cycles of such a broad range of species may be best accomplished by replicating many of the macro and microhabitots that occur within an infact natural riporian community. in the watershed or region where you are working. Providing standing and flowing water habitats with varied depths, temperatures, substrates and structures may be the best way to maximize aquatic investebrate disposity. Some of those microhabitat features are likely to be naturally provided over time. Riparian and upland balifints should have varied vegetative structure and be planted with a diverse mix of species (forbs

and grasses). In order to achieve this, we are suggesting used mixes. that contain both notive and excite species (grasses and forbs) that have the greatest likelihood of achieving a varied herbaceous vegetation layer once established. We are purposefully including some exotic plant species, such as Kentucky bluegrass, because it provides a low-campy structure that is valuable to a variety of nongame species from a thermoregulatory perspective. We include this species because we accomize that most of these properties will not receive management after they are initially planted. The establishment and maintenance of a diverse notive planting typically requires significant management, especially in the early years, if a diverse plant community



with variable habitat structure is to be achieved. Where a project is attempting to improve conditions for one or more of the SGCN target invertebrates, such as a butterily, wed mixes our include host plant seeds as appropriate. Having knowledge about these species and their specific habitet requirements, including host



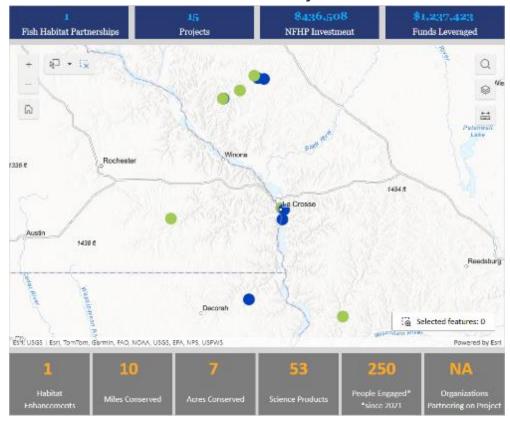


ROOT WAD W-936 Ratural Resources Conserve for Service Divised Status Dispertment of Agriculture

Total Projects

126

2022-2025 NFHP Projects







Trout Unlimited welcomes projects under Driftless
Area Habitat for the Wild & Rare Regional
Conservation Partnership Program (RCPP), funded
through 2028 by the U.S. Department of Agriculture
(USDA) Natural Resources Conservation Service
(NRCS)

Trout Unlimited works with landowners and growers to improve farm stewardship. They establish habitats in streams and adjacent land to support trout and other wildlife species, while reducing erosion and nutrient loss.

Examples of practices used to improve habitat, slow the release of sediment and nutrients into water systems, and improve water quality.











Riparian Planting

Wisconsin EQIP/RCPP Deadlines

Application: May 16, 2025 Ranking: June 20, 2025

Contact Trout Unlimited Today!

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Paul Krahn: (608) 606-0565

paul.krahn@tu.org

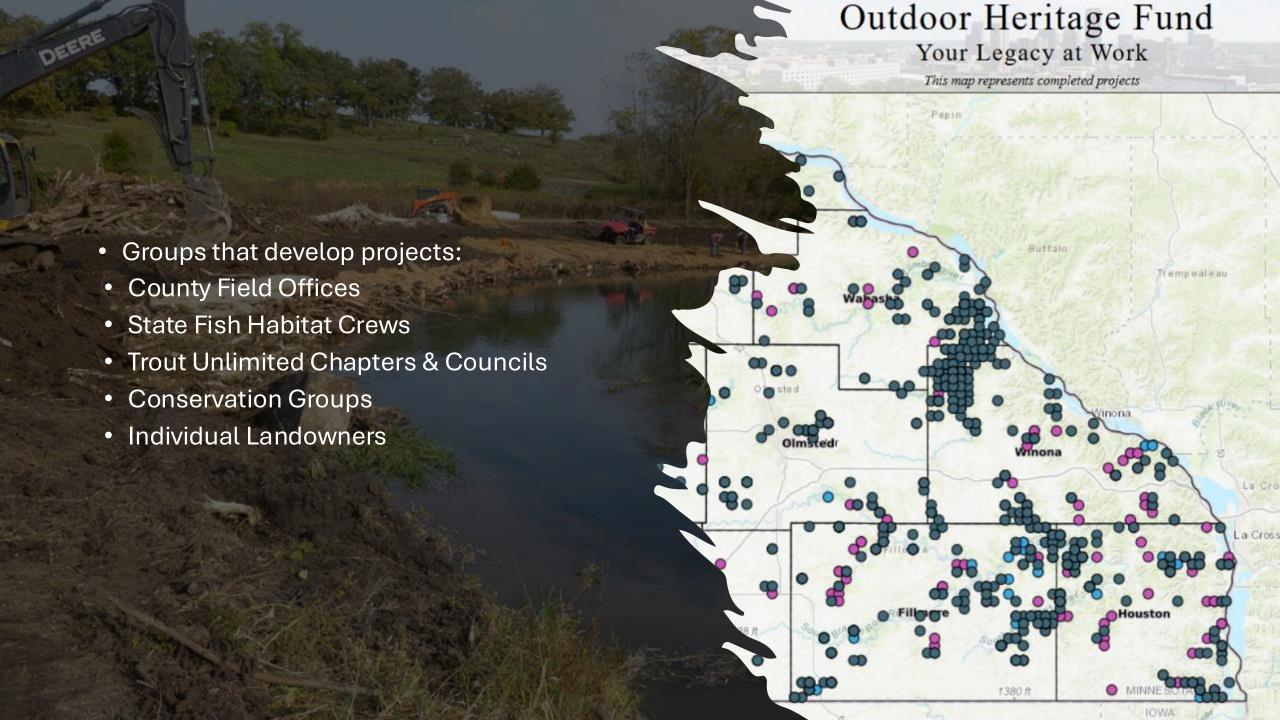
Peter Jonas: (608) 323-2006

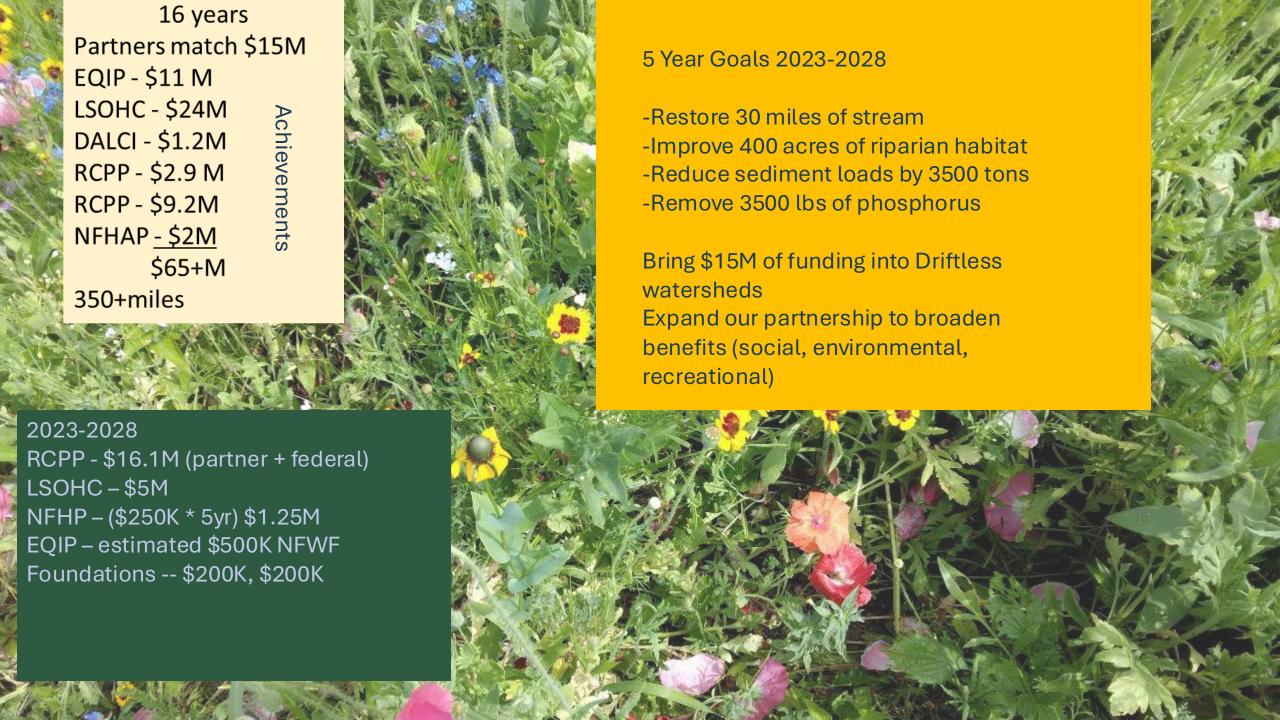
peter.jonas@tu.org

USDA is an equal opportunity provider, employer, and lender.

35 miles

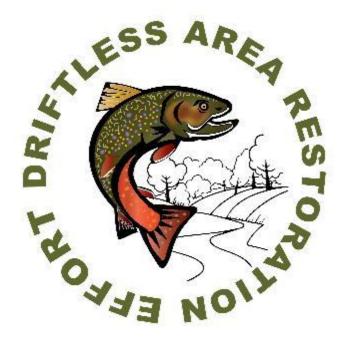
\$4M non-NFHP funds

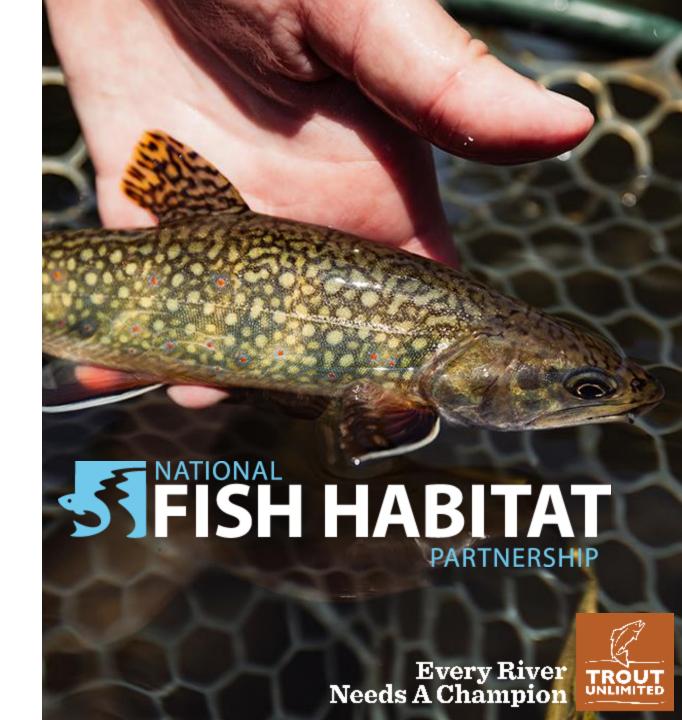




Driftless Area Restoration Effort

Thank you!





Driftless Area Team



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Stream Restoration Specialist

Wisconsin



Cameron Aker

Iowa Engagement Coordinator

Iowa



Peter Jonas

Partnerships Specialist

Wisconsin





A Bit About Your Coordinator

Sara Strassman, Trout Unlimited

















Every River Needs A Champion