Upper Mississippi River Restoration Program Coordinating Committee

November 20, 2024 Quarterly Meeting

Highlights and Action Items

Programmatic Highlights

- UMRR executed 98.2 percent of its FY 2024 appropriation of \$55 million, including the funds carried over from FY 2023.
- The President's FY 2025 budget and the House and Senate FY 2025 energy and water appropriations measures include \$55 million for UMRR. Federal agencies are currently operating under a continuing resolution, which is set to expire in late December 2024. In the interim, the Corps is allocating funds per a \$55 million planning assumption for UMRR in FY 2025.
- Through draft Water Resource Development Act of 2024 bills, the Senate and House of Representatives are proposing to increase the program's annual authorized appropriation for long term resource monitoring from \$15 million to \$25 million.
- The UMRR Coordinating Committee and other meeting participants reviewed draft mission and vision statement and goals and objectives for the program as drafted by the UMRR strategic planning team. The notes from the discussion will be shared with the strategic planning team. The team is scheduled to meet in person on December 5-6, 2024, to finalize strategies and actions for program work from 2025 to 2035. The next phase of the strategic planning process will be to initiate a public review process. The strategic plan is anticipated to be finalized in summer 2025.
- Corps Headquarters representatives visited the region on October 7-10, 2024. Their visit included touring multiple habitat rehabilitation and enhancement projects (HREPs), participating in a LTRM electrofishing demonstration, and engaging with UMRR partners and stakeholders. The Headquarters staff, who work in policy and budgeting for the Corps, expressed strong enthusiasm for UMRR's work and the partnership that was demonstrated throughout their visit.

Habitat Rehabilitation and Enhancement Projects (HREPs) Highlights

- UMRR program partners continue to work through the process of evaluating potential project opportunities and selecting a suite of projects for implementation in FYs 2026 through 2030. River Teams are currently drafting fact sheets for their proposed projects. The UMRR Coordinating Committee is anticipated to review and approve fact sheets by the third quarter of FY 2025 i.e., April 2025 through June 2025. The Corps will incorporate environmental justice and parametric cost data into the fact sheets ahead of the feasibility studies.
- In response to the partnership expressing interest in developing standardized practices for monitoring HREPs, Marshall Plumley proposes to establish a HREP Monitoring Team in January 2025.

- The program has twenty-six HREPs currently in progress. The HREPs scheduled from now through 2036 will benefit over 69,000 acres of habitat.
- A few highlights of progress in implementing HREPs include:
 - o The St. Paul District finished the Big Lake HREP feasibility study. With an estimated construction cost of around forty million dollars, the Big Lake HREP is the largest feasibility study ever completed by the St. Paul District.
 - o This year, the St. Paul District completed four GIS storymaps of UMRR HREPs, which can be found on their website.
 - o The Rock Island District completed the first two construction stages of the Steamboat Island HREP.
 - o MVD approved the Rock Island District's feasibility report for the Lower Pool 13 HREP. The project will now advance to design and construction.
 - o The St. Louis District completed a berm setback on the Clarence Cannon HREP.
 - The St. Louis District completed Stage 2 of construction on the Piasa and Eagles Nest Islands HREP. The District hosted a tour of the HREP in conjunction with the UMRBA Quarterly Meeting on November 19, 2024.

Long Term Resource Monitoring (LTRM) Highlights

- Under the \$55 million planning assumption, UMRR plans to increase funding for base monitoring for LTRM by an additional \$1.5 million in FY 2025 in recognition of increasing costs over the past several years.
- Six manuscripts were published in the last quarter (since August 2024) that were supported by UMRR funding and the programmatic infrastructure.
- The 2024 LTRM Implementation Plan prioritized focused learning related to floodplain vegetation change across the system. In response, UMRR is scheduled to convene a program-level Floodplain Vegetation Workshop for January 7-9, 2025, in the Quad Cities. The program goal is to develop a long-term monitoring plan for floodplain vegetation.
- Topobathy acquisition is currently in process for the twelve task orders awarded (FY24) for the Lower Poole 13 pilot and the entire Illinois River and Open River Reach 2 on the Mississippi. It is estimated that the data will be processed and usable in a year.

Communications and Outreach

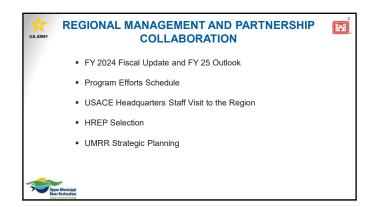
- The UMRR Photo Contest is ongoing. Voting was extended to the UMRR distribution list on November 13, 2024.
- The Communications and Outreach Team is open for new members; email Rachel Perrine if interested.

Future Meeting Schedule

• February 2025 through a virtual platform (not in-person)

- o UMRBA quarterly meeting February 25
- o UMRR Coordinating Committee quarterly meeting February 26
- May 2025 in La Crosse, Wisconsin
 - o UMRBA quarterly meeting May 20
 - o UMRR Coordinating Committee quarterly meeting May 21
- August 2025 in Minneapolis, Minnesota
 - o UMRBA quarterly meeting August 5
 - o UMRR Coordinating Committee quarterly meeting August 6

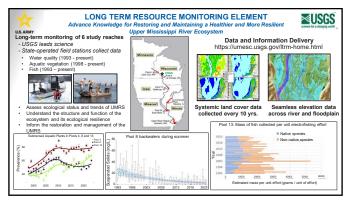


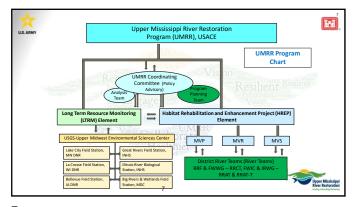


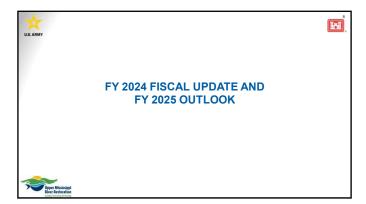


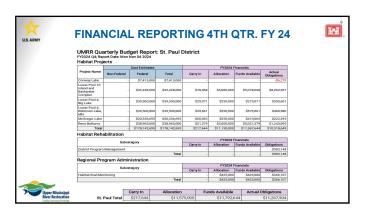


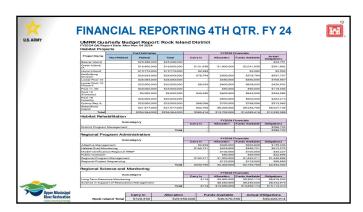




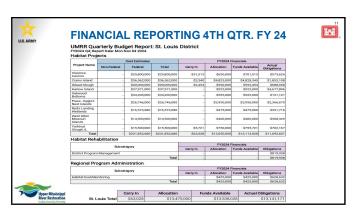


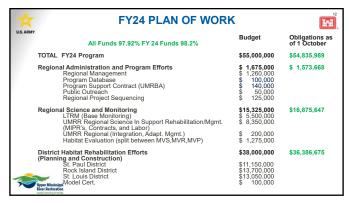


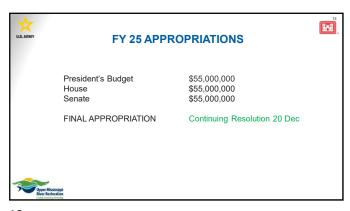




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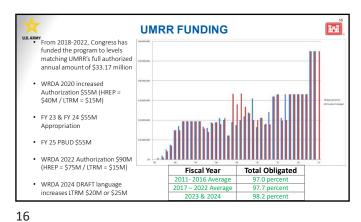






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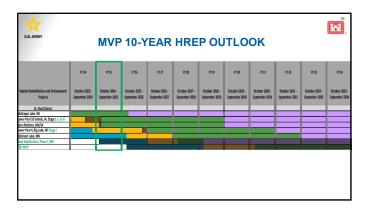
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U.S. ARMY	Budget	Obligations as of 1 Nov 24
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Regional Science and Monitoring LTRM [Base Monitoring] LUMRR Regional Science In Support Rehabilitation/Mgmt. (MIPRs, Contracts, and Labor) UMRR Regional (Integration, Adapt. Mgmt.) Habitat Evaluation (spith between MVS,MVR,MVP)	\$15,925,000 \$ 6,500,000 \$ 7,950,000 \$ 200,000 \$ 1,275,000	\$ 107,383
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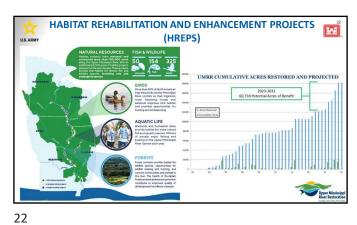


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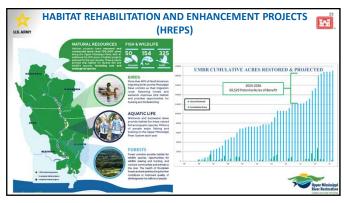


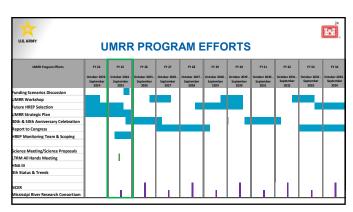
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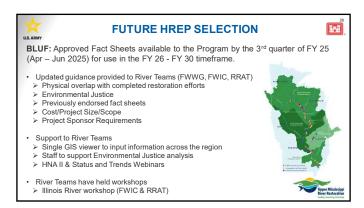








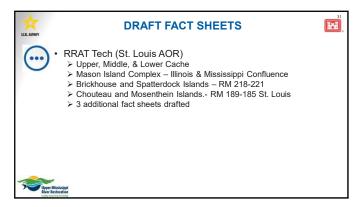


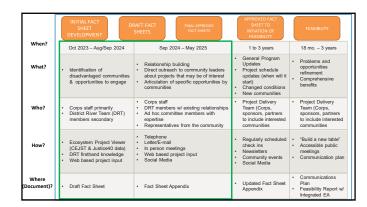


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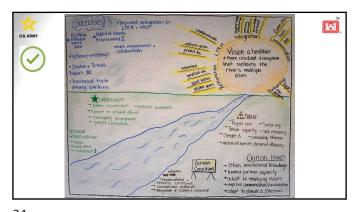




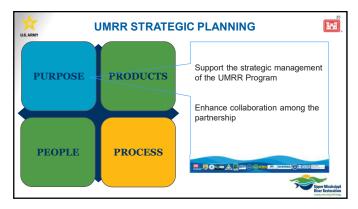


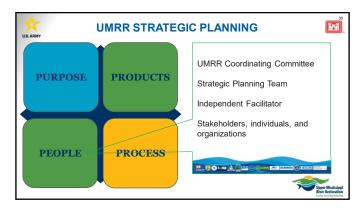


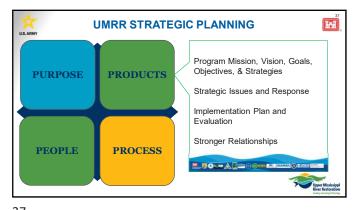


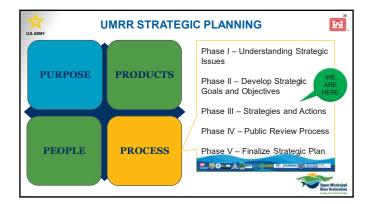


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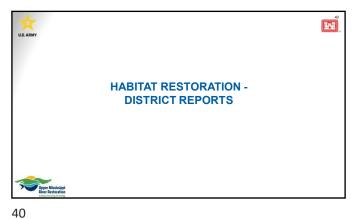


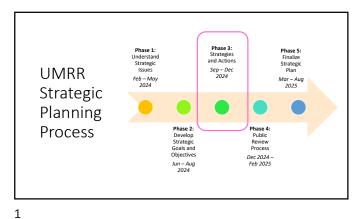












September 30th – Virtual meeting to discuss strategies & actions

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Current State of Draft goals for 2025 – 2035 Foster an inclusive partnership to advance UMRR's mission. Enhance engagement and communication with key UMRR Improve understanding of the Upper Mississippi River ecosystem for better audiences management Restore habitat to support the river Strengthen collaboration between ecosystem in the face of ongoing program elements for efficient science stressors and human-caused and restoration efforts. alterations.

4 3

Goal 1: Improve understanding of the structure and function of the Upper Mississippi River ecosystem for better management.

Objectives:

- 1.1: Maintain and enhance annual long-term monitoring efforts.
- 1.2: Measure and share the status and trends of river functions and resources every ten years.
- 1.3: Deepen understanding of the ecosystem
- through targeted research and data collection.

 1.4: Anticipate how the ecosystem will respond to changes, especially climate change.

Goal 2: Restore habitat to support the river ecosystem in the face of ongoing stressors and human-caused alterations

- 2.1: Address ecological needs through habitat projects based on the best knowledge available.
- 2.2: Restore 60,000 to 80,000 acres of habitat by 2035, with all projects achieving success criteria within ten years of completion.
- · 2.3: Explore and implement new restoration techniques and monitor their effectiveness.

Goal 3: Strengthen collaboration between program elements for efficient science and restoration

Objectives:

2

- 3.1: Develop a framework for ongoing collaboration between program elements.
- · 3.2: Standardize how monitoring data is collected, stored, and shared to enhance learning across
- 3.3: Improve the chances of successful restoration
- through targeted research at project sites.

 3.4: Apply findings from long-term research more effectively throughout the restoration process.
- . 3.5: Holistically use information from habitat
- projects in research and design.

 3.6: Increase capacity of personnel and knowledge for better collaborative project planning and decision-making.

Goal 4: Enhance community engagement and communication with key UMRR audiences.

Objectives:

- . 4.1: Continue implementing the current
- 4.2: Assess and integrate the role of the
- Communications and Outreach Team into the overall engagement plan.

 4.3: Use social science methods in engagement
- and communication strategies.

 4.4: Create opportunities for community input on UMRR projects and activities.

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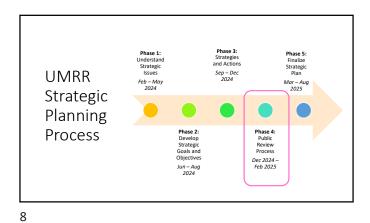
Goal 5: Foster an inclusive partnership to advance UMRR's mission.

Objectives:

• 5.1: Create regular opportunities for new and existing partners and stakeholders to discuss key program topics.

• 5.2: Build and maintain trust within the partnership.

• 5.3: Address partner capacity issues to ensure ongoing support for the program.



7

Breakout Group Discussion

- 1) Individually, take some time to reflect on and answer the questions below.
 - What do you like about the current version of the mission, vision, goal and objectives?
 - How would you improve them at this stage?
 - Who are 3-5 important stakeholders that we need to make sure we connect with during our public participation process?
 - Are there any other thoughts you'd like to share?

2) Join a breakout group to discuss (both in the room and online) $\,$

3) Return to large group to share highlights

Feel free to followup with email to ltalbert@umrba.org





INAUGURAL UMRR PHOTO CONTEST



"Empowering Conservation Through Vision: Capturing the Upper Mississippi River's Essence"

Who: UMRR partners

When: Photo submission period is August 1 – October 31, 2024; photos can be

from any season or taken during prior years.

Why: To bolster UMRR's program materials and communication efforts.

Categories:

- o Before/After, Construction, or Benefits of HREPs
- o Connecting People with Nature, Human Use, or Public Interaction
- o Natural Features, Scenic Views, or Landscapes
- Cultural or Historic Features
- LTRM Monitoring in Action



Update

UMRR COMMUNICATION AND OUTREACH TEAM

Rachel Perrine

- Water Resource Planner
- Rock Island District Plan Formulation Section Chief
- UMRR Communication and Outreach Team Lead





Round 2 Judging (Top five photos per category): When: November 21-December 13

Who: **UMRR** Practitioners

How: Microsoft Form emailed to UMRR Distribution List - Pick Your Favorite



















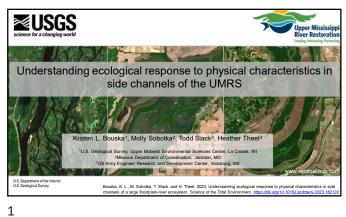


Photo credit: M. Sobotka

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Side Channels

- Side channels are key components of the ecological structure of rivers
- In reaches that lack off-channel habitat, restoration emphasis is often on side channels
- Poor understanding of physical controls on side channel function
 Uncertain how to best rehabilitate side channel habitats to support ecological objectives

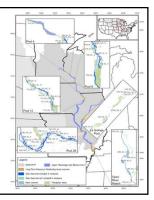


Hypotheses der low flow conditions, fishes will seek large annels that support varied resources and ma

Study Area

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- Long Term Resource Monitoring study reaches
 - Pools 4, 8, 13, 26, and Open River Reach on Mississippi River
 - · La Grange Pool on Illinois River

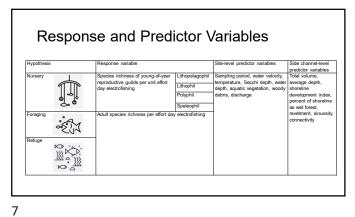


Data Sources

- Fish data
 - Upper Mississippi River Restoration program's Long Term Resource Monitoring element
 - Stratified random sampling design side channel stratum
 - Multi-gear approach electrofishing

· Environmental data

- Site-level variables taken at time of fish sampling and from nearest USGS gage
- Side channel-level variables derived from aquatic areas classification as well as a few new derived variables



Methods

• Multi-level/hierarchical models

incorporate site-level and side channel-level variables

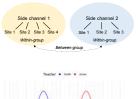
 assess variability within and between side channels

· Separate models for upstream / downstream reaches

• Interclass correlation (ICC) proportion of variation in the response variable that is accounted for between side channels >0.10

· Model comparison using BIC

8



Methods

- Classification & Inventory
 - Side channel-level physical variables that were retained in final models were included in a classification analysis from all reaches
 - Variables normalized to have mean of 0 and standard deviation of 1
 K-means cluster analysis
 - Side channel clusters summarized by pool/reach

Results -	Initial	Screening
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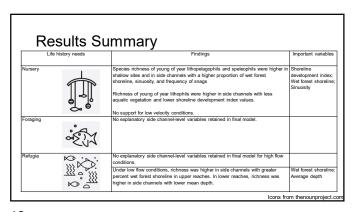
Response variable		proportion of variation in response d for between side channels)
	Upstream study reaches (Pools 4, 8, and 13)	Downstream study reaches (Pool 26, Open River, and La Grange)
Lithopelagophil young of year richness	18%	4%
Lithophil young of year richness	30%	Not normally distributed
Pelagophil young of year richness	9%	8%
Phytolithophil young of year richness	1%	8%
Phytophil young of year richness	Not normally distributed	4%
Polyphil young of year richness	28%	Not normally distributed
Speleophil young of year richness	20%	7%
Adult richness	23%	6%
Adult richness – low flow	19%	11%
Adult richness - high flow	31%	8%

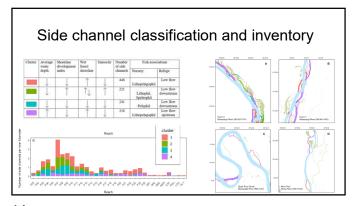
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Results - Low Flow Refugia • Downstream adult species · Upstream adult species richness ICC=0.19 richness ICC=0.11 Percent of shoreline as wet forest 100% Average depth

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Discussion

- Heterogeneity within side channels provide habitat conditions that support nursery and low flow refuge of riverine fishes
- Percent shoreline as forest
 Shoreline diversity index
 Sinuosity
- · Substantial variation within side channels
- Diversity and abundance of side channels varied by reach
- Continued efforts needed to understand fish responses to hydrophysical conditions in lower reaches



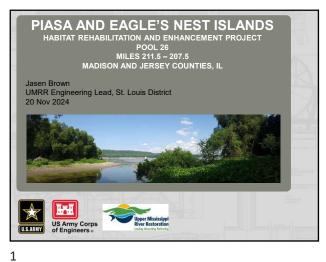
What's next?

- UMRR Science Meeting Proposal
 Conceptualize how side channel connectivity relates to ecological objectives
 - Classify side channels based on connectivity
 Understand relationships between
 - connectivity index and habitat conditions
- Please share any work related to evaluating side channel restoration or connectivity!



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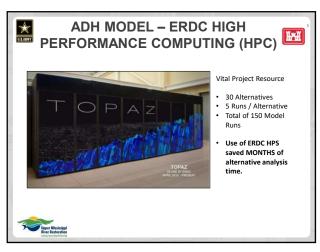


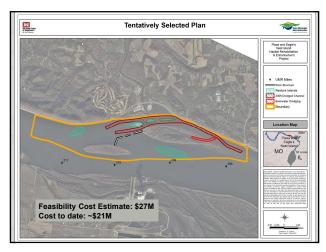




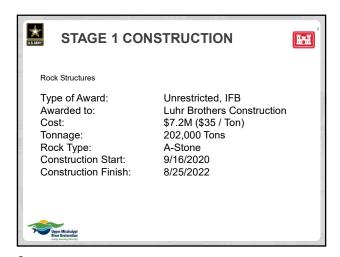








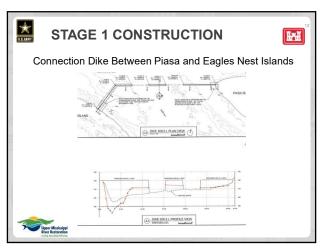




























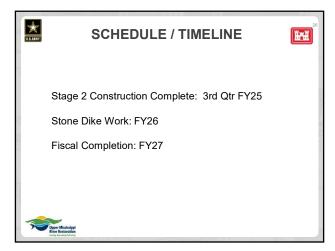


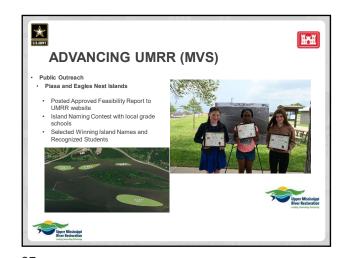






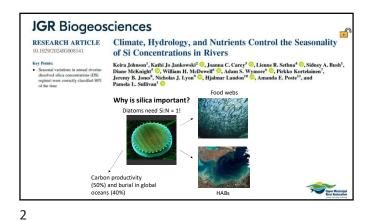


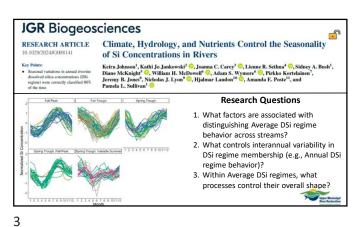




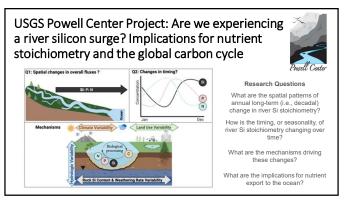




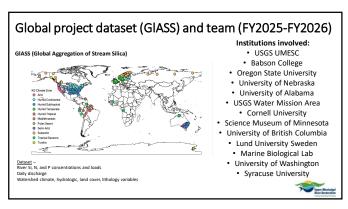


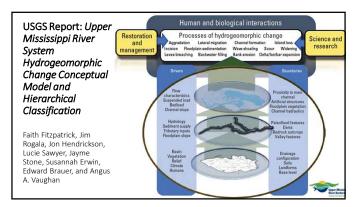


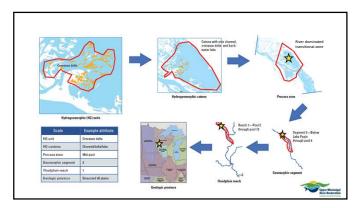
Air Temperature Annual model (80% accurate) outperformed Average Model (59%) Evapotranspiration Best predictors of <u>average regime</u> = **climate and primary productivity** variables Discharge (5%ile) Best predictors of <u>annual regimes</u> = climate and hydrology Discharge (95%ile) Max Snow Covered Area Implications -Accounting for changing "regimes" over time is more accurate reflection of river behavior Precipitation Annual changes in regime shape reflect climate and hydrology Net Primary Production Differences in Si seasonal regime shape reflect processes sensitive to climate change CV (Discharge) Shifts in the timing of DSi availability impact timing of DSi delivery to downstream river and marine ecosystems Green Up Day



6 5







Publication: Population structure and vital rates of Shortnose Gar Lepisosteus platostomus in a large floodplain river. Environmental Biology of Fishes

Sara Molinaro, Sarah King, Levi Solomon, Kris Maxson, Jeffrey Stein

- Funded by Federal Aid in Sportfish Restoration (Dingell-Johnson)
- Led by Illinois Natural History Survey staff in Champaign IL
- Combined three data sets:
- LTEF
- MAM • LTRM
- Specific LTRM contributions included
- Fish collection: both targeted sampling and LTRM SRS sampling
 Assistance with analysis of LTRM data
- Assistance with analysis of LTRM data
 Assistance with writing/editing of manuscript

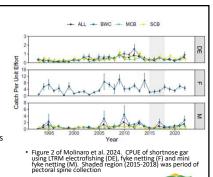


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Results

- Populations stable in La Grange
- Age range: 1 18 years
- Appear to grow slower and have the potential to reach larger body sizes than previously found
- · Low fishing mortality
- Most caught in backwaters



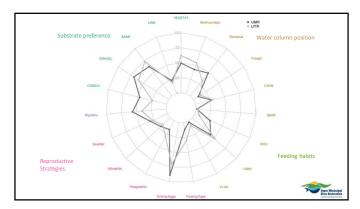
Spatial and Ontogenetic Patterns in the Trophic Ecology of
Two Predatory Fishes in a Large River
Study A Waterfeld ("Green's Waterfeld") ("Green's Waterfe

11 12

Publication: Relationships between environmental variables and fish functional groups in impounded reaches of the Upper Mississippi and Yangtze Rivers

Kyle Brumm, Fangyuan Xiong, Yushun Chen, Hao Yu, Lizhu Wang, Dana Infante

• Compared environmental variables and functional traits of fish communities to understand how large river fish communities may respond to anthropogenic stressors.



13 14

American Fisheries Society 2024 Annual Meeting

- The 6th Mississippi-Yangtze River Basins Symposium (MYRIBS):
 - · Now represents over 10 years of international communications and collaborations
 - Organized by Yushun Chen, (Chinese Academy of Sciences, Michael Eggleton (U. Arkansas), Dana Infante (Mich. State. Univ), Patrick Kroboth (USGS), James Lamer (INHS, IRBS), Michael Moore (USGS).
- Kristen Bouska,, A. Bartels, J. Lamer, L. Solomon, H. Kim, and Q. Phelps. Spatial patterns of vital rates among large river fish populations.
- Kristen Bouska, J. N. Houser, and N. R. De Jager. Resilience as a collaborative learning process: Insights from the Upper Mississippi River.
- Nicole Ward, S. Winter, K. Bouska, E. Stefanik. Linking long-term monitoring and inter-agency environmental decision making.
- Manisha Pant. First record of non-indigenous polychaete *Laonome xeprovala* in La Grange Pool of the Illinois River.
- Teresa Newton. Vital rates of native mussel assemblages in the Upper Mississippi River



LTRM Implementation Planning Recommended Information Needs

- Geomorphic trends in the UMRS
- River gradients from Pool 14 to Pool 25
- . . .
- Floodplain vegetation change across system
- Lower trophic contribution (zooplankton and phytoplankton)
- FY2024

FY2023

- Aquatic plant distribution
- Learning from restoration
- Terrestrial and aquatic herpetofauna (amphibians and reptiles)
- Freshwater mussels
- Macroinvertebrates*



15 16

Implementation Planning: Floodplain Vegetation Change Across the System

- · Project Objective:
 - Develop a long-term floodplain vegetation monitoring plan for LTRM
 - Conduct a Program-Level workshop (January 7-9, 2025 in the Quad Cities).
 - Establish a floodplain vegetation monitoring working group
 - Identify, assemble, and evaluate existing floodplain vegetation data sets
 - Identify avenues for data collection and analyses at restoration sites
 - Develop public online tools to facilitate data sharing and visualization of existing floodplain vegetation data
 - Answer focused research questions with existing data and further predictive modelling efforts

Floodplain Vegetation Information Need

 Initial Planning Team: Nathan De Jager (USGS), Lyle Guyon (NGRREC), Molly Van Appledorn (USGS), Matthew Trumper (Co-PI, USGS, new hire), Shelby Weiss (Co-PI, NGRREC, relatively new hire) + TBD at workshop



Shelby Weiss PhD University of Oregon MS The Ohio State University BS Colorado State University Interested in forest

Interested in forest ecosystem dynamics and quantifying how forests respond to ecological disturbances and climate change.



Matthew Trumper
MA University of Minnesota
BS University of Minnesota
Interested in forest growth,



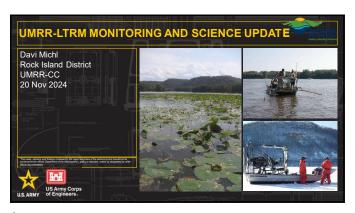
Upper Missi Elver Resto

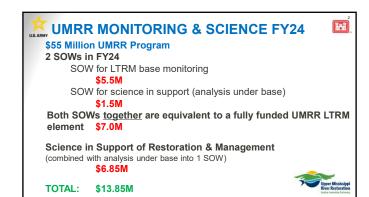
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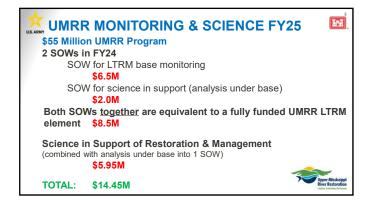
LTRM Field Station Visits

- LTRM Management Team
- 5 of 6 completed
- Visited with Pool 26 Field station staff yesterday.
- Will visit with La Grange Pool Field Station (IRBS) tomorrow.

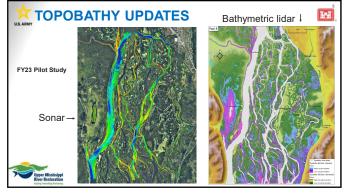


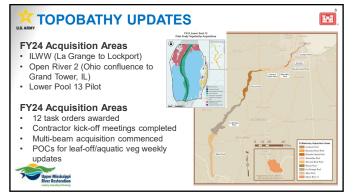






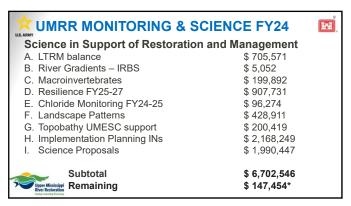
LTR	M
	Budget (gross)
MN	\$1,084,310
WI	\$880,299
IA	\$593,488
Great Rivers (IL)	\$610,057
Big Rivers & Wetlands (MO)	\$603,889
IRBS (IL)	\$688,704
Equipment	\$143,356
All-Hands meeting	\$ 9,081
STATES TOTAL (-carry-in)	\$4,651,356*
UMESC TOTAL (-carry-in)	\$4,137,486
Corps tech/science reps	\$ 77,000
TOTAL FY24 LTRM BUDGET	\$8,865,842







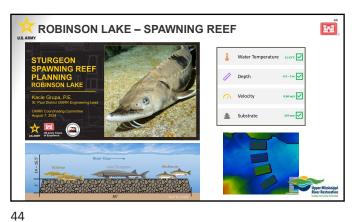






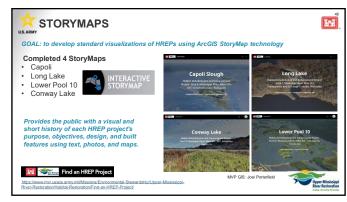


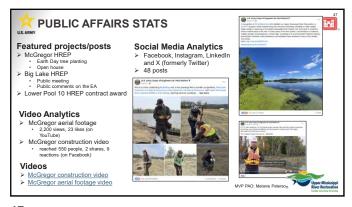


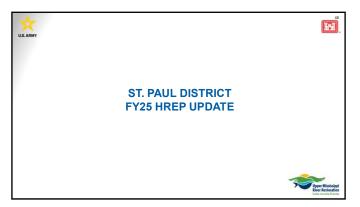


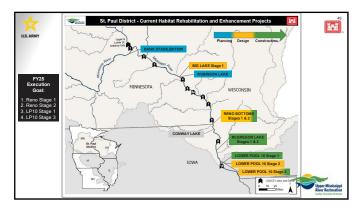
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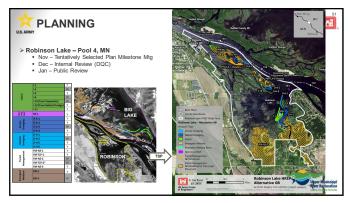


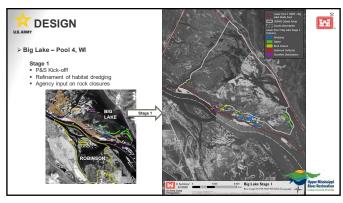


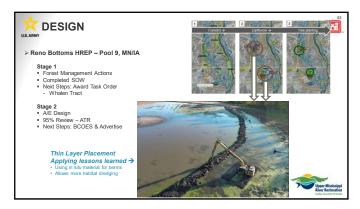




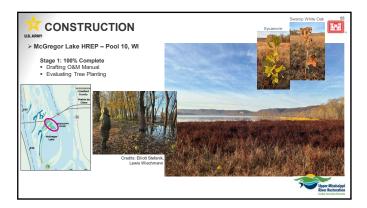
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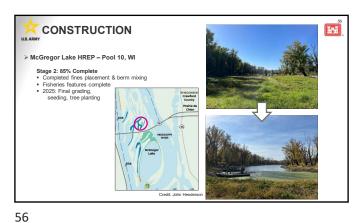




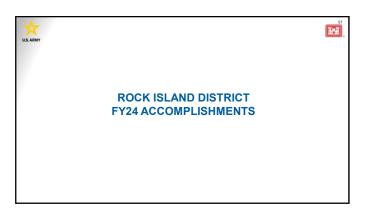








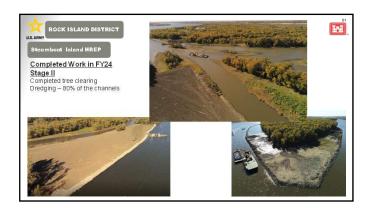
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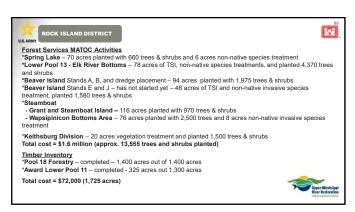






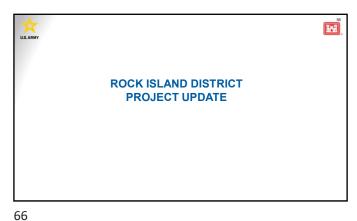


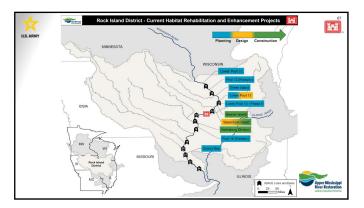


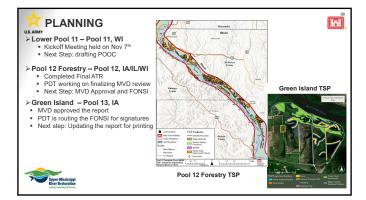


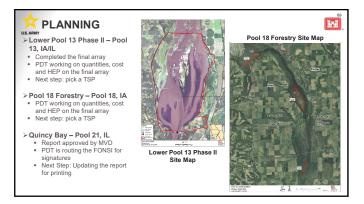


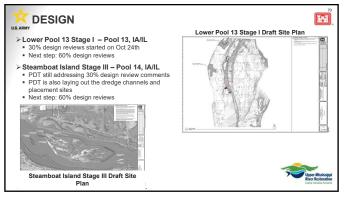






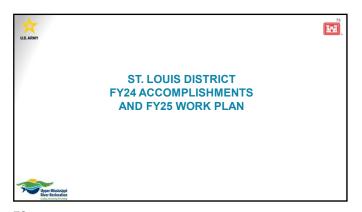


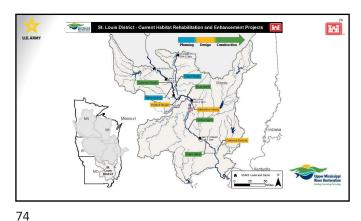




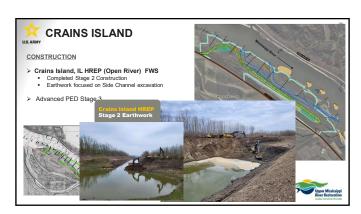




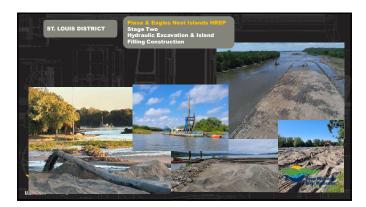
















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