

**Upper Mississippi River Restoration Program
Coordinating Committee**

**February 26, 2024
Quarterly Meeting**

Highlights and Action Items

Programmatic Highlights

- The President's FY 2025 budget and the House and Senate FY 2025 Energy and Water Development appropriations measures include \$55 million for UMRR. Federal agencies are currently operating under a continuing resolution, which is set to expire on March 14. In the interim, the Corps is allocating funds per a \$55 million planning assumption for UMRR in FY 2025.
- The strategic planning team met in December 2024 to refine strategies and actions for the program and to draft timelines for partnership work over the next ten years. An internal review of the strategic planning process has begun, and the next phase will be to initiate a public review process, which is expected to occur in summer 2025.
- The Navigation and Ecosystem Sustainability Program (NESP) has initiated the reach planning process. The objectives and priority restoration areas identified in this process will be program neutral and could be of potential use to UMRR in the future.
- The Coordinating Committee will be receiving a request to meet in April to talk through funding scenarios, federal guidance updates, and personnel changes.

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. Chairs of the technical-level river teams gave presentations on their work over the past 18 months to narrow down the list of potential projects for consideration. The teams considered variables like cost estimate, ecological benefit, and non-ecological benefits. NGOs and community groups participated in these river team meetings. The UMRR Coordinating Committee is anticipated to review and endorse fact sheets at the May Quarterly Meeting.
- After the project selection process is complete, the program will conduct an internal review and generate recommendations and lessons learned for future efforts. There is interest in expanding participation in river teams' project selection processes; particularly NGOs and community groups. Increased participation from these groups is envisioned to occur early and throughout future project selection efforts.
- In response to the partnership expressing interest in developing a consistent approach for monitoring HREPs and incorporating adaptive management, Marshall Plumley proposes to establish an HREP Monitoring Team. UMRBA will send out a request to Coordinating Committee members to identify representatives for this group. Kat McCain from the Corps' Ecosystem Restoration Planning Center of Expertise will also be involved in the group.

- The Environmental Design Handbook, first published in 2012, is currently being updated to reflect lessons learned as well as partnership feedback. The new version will be sent out for partner review.
- A few highlights of progress in implementing HREPs include:
 - The St. Paul District completed Stage 1 of the McGregor Lake HREP.
 - The St. Paul District initiated planning on the new Bank Stabilization HREP on the Minnesota River. This is an urgent project to address erosion and breaches that threaten the recently completed Bass Ponds HREP.
 - The Rock Island District completed construction on Beaver Island HREP.
 - The St. Louis District's two primary construction projects in FY 2025 will be Crains Island HREP and Harlow Island HREP.
 - The St. Louis District successfully installed interpretive signs at the Piasa and Eagles Nest Islands HREP.
 - The St. Louis District River Resources Action Team fall 2025 partner river trip will travel from St. Louis to Hannibal.

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.
- Two manuscripts were published in the last quarter (since November 2024) that were supported by UMRR funding and the programmatic infrastructure. LTRM work was also highlighted in a Milwaukee Journal Sentinel article.
- LTRM Implementation Planning identified several information needs that could be pursued. Work on the floodplain vegetation and river gradient information needs has started. Applications have been received for positions focused on the geomorphic trends and lower trophic contribution information needs.
- Topobathy acquisition of the Illinois River was completed in the fall of 2024, apart from some sections of the river that had already iced over. It is estimated that the data will be processed and usable by August 2025.
- Six positions were terminated at UMESC recently, which will impact an estimated 28 products or milestones.

Communications and Outreach

- The UMRR Photo Contest winners were announced for five categories. Kacie Grupa won for "Benefits of HREPs". Kyle von Ruden won for "Connecting People with Nature". Ken Petersen won for "Natural Features, Scenic Views, or Landscapes". Alicia Carhart won for "Cultural or Historic Features". Alicia Carhart won for "LTRM – Monitoring in Action".
- The partnership published a new brochure to capture the main messages of the program's 2022 Report to Congress. The brochure has already been successfully utilized for Congressional visits.

Future Meeting Schedule

- May 2025 in La Crosse, Wisconsin
 - UMRBA quarterly meeting – May 20
 - UMRR Coordinating Committee quarterly meeting – May 21
- August 2025 in Minneapolis, Minnesota
 - UMRBA quarterly meeting – August 5
 - UMRR Coordinating Committee quarterly meeting – August 6
- October 2025 in the Quad Cities
 - UMRBA quarterly meeting – October 28
 - UMRR Coordinating Committee quarterly meeting – October 29

UMRR COORDINATING COMMITTEE - REGIONAL MANAGEMENT AND PARTNERSHIP COLLABORATION

Marshall Plumley
UMRR Regional Program Manager
St. Paul District
Rock Island District
St. Louis District

Date: 26 February 2025



U.S. Army
Corps
of Engineers.

- FY 2025 Fiscal Update
- HREP Selection
- UMRR Strategic Plan
- Odds & Ends



REGIONAL MANAGEMENT AND PARTNERSHIP COLLABORATION



U.S. ARMY

NATIONAL HABITAT REHABILITATION AND ENHANCEMENT PROJECT (HREP)

- FY 2025 Fiscal Update
- HREP Selection
- UMRR Strategic Plan
- Odds & Ends



UPPER MISSISSIPPI RIVER RESTORATION PROGRAM

Upper Mississippi River System

- 1,200-mile commercially navigable river network
 - 29 Mississippi River locks & dams
 - Eight National Wildlife Refuges
 - Five states
 - Supports a mosaic of diverse and varied terrestrial and aquatic natural habitats, linking the Great Lakes and the Gulf Coast
 - Nationally and Internationally Significant

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FINANCIAL REPORTING 1ST QTR. FY 25

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FY 2025 FISCAL UPDATE

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UMRR Quarterly Budget Report: Rock Island District
FY2025.31 Report Date: Feb 10, 2025



FINANCIAL REPORTING 1ST QTR. FY 25

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FINANCIAL REPORTING 1ST QTR. FY 25

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FINANCIAL REPORTING 1ST QTR. FY 25

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FY 2025 DRAFT PLAN OF WORK

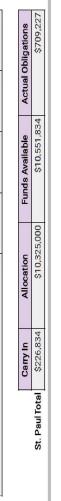
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FY 2025 FISCAL UPDATE

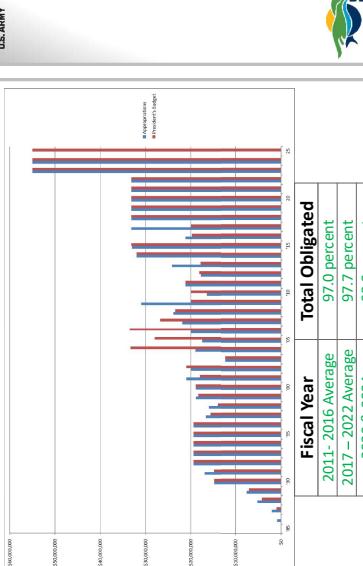
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UMRR FUNDING

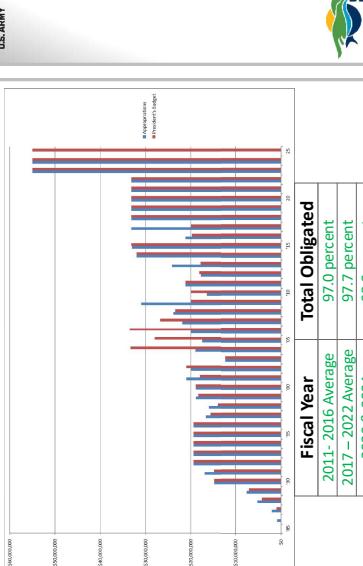
From 2018-2022, Congress has funded the program to levels matching MVR's full authorized annual amount of \$33.17 million

- WRDA 2020 Increased Authorization \$55M (HREP = \$40M) / LTRM = \$15M)
- FY 23 & FY 24 \$55M Appropriation
- FY 25 PBUD \$55M
- WRDA 2022 Authorization \$90M (HREP = \$75M) / LTRM = \$15M)
- WRDA 2024 Authorization \$100M (HREP = \$75M) / LTRM = \$25M)

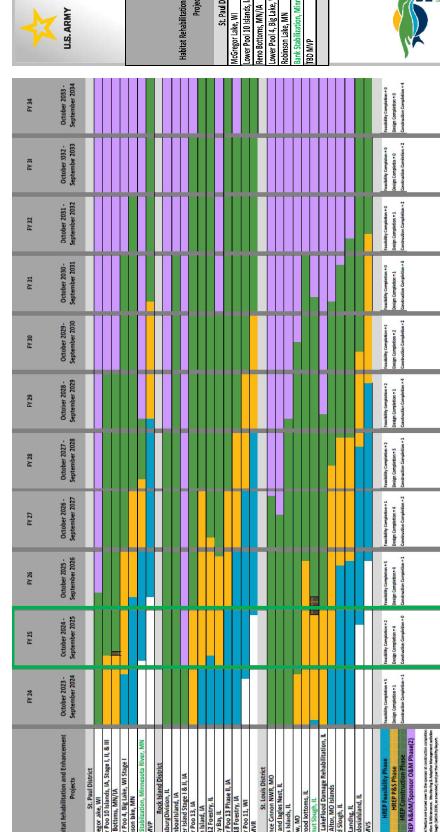
PROGRAM EFFORTS SCHEDULE



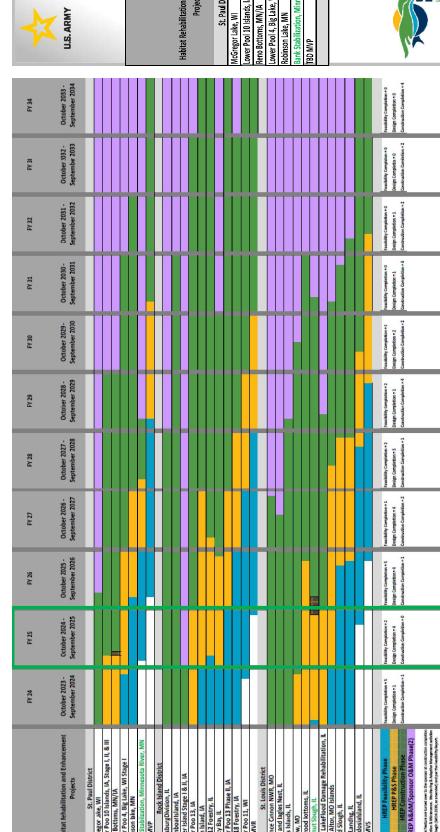
PROGRAM EFFORTS SCHEDULE



MVP 10-YEAR HREP OUTLOOK



MVP 10-YEAR HREP OUTLOOK

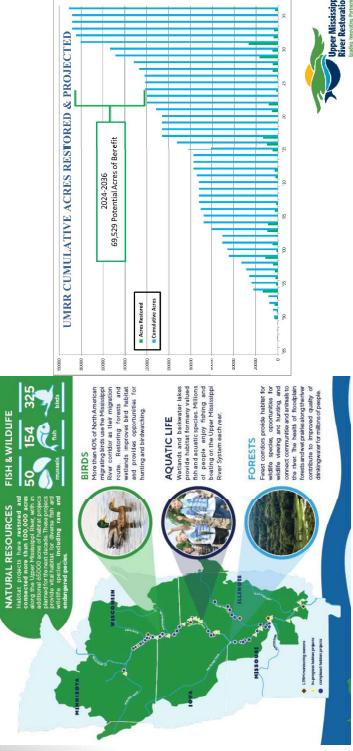


MVS 10-YEAR HREP OUTLOOK

MVS 10-YEAR HREP OUTLOOK

MVR 10-YEAR HREP OUTLOOK

**HABITAT REHABILITATION AND ENHANCEMENT PROJECTS
(HREPS)**



UMRR PROGRAM EFFORTS



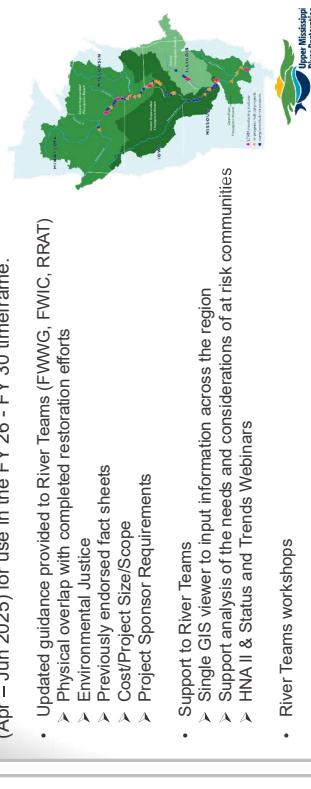
FUTURE HREP SELECTION



HREP SELECTION



- Updated guidance provided to River Teams (FWWG, FWIC, RRAT)
 - Physical overlap with completed restoration efforts
 - Environmental Justice
 - Previously endorsed fact sheets
 - Cost/Project Size/Scope
 - Project Sponsor Requirements
- Support to River Teams
 - Single GIS viewer to input information across the region
 - Support analysis of the needs and considerations of at-risk communities
 - HNA II & Status and Trends Webinars
- River Teams workshops

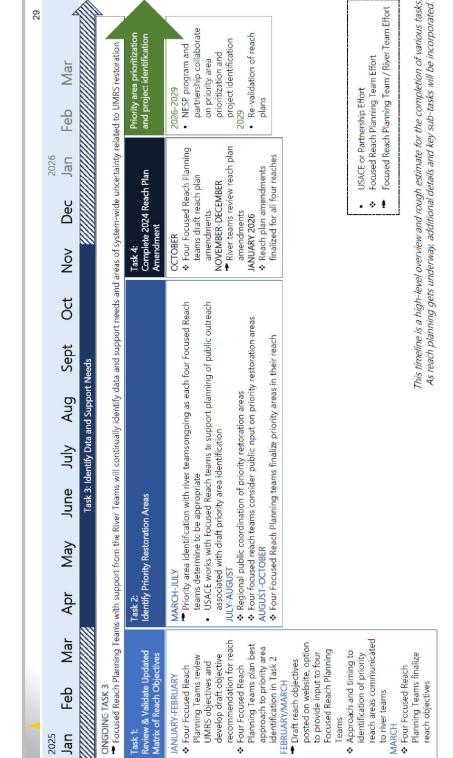
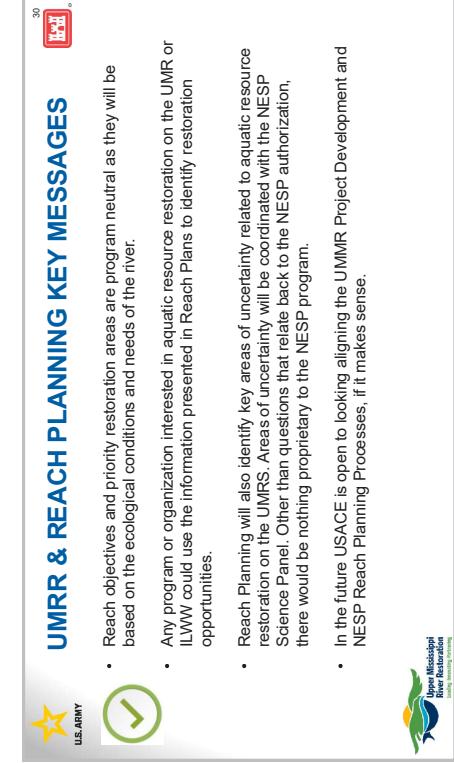
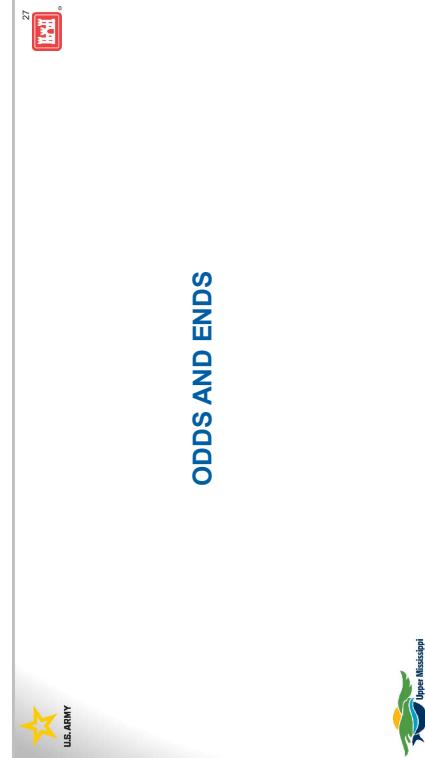
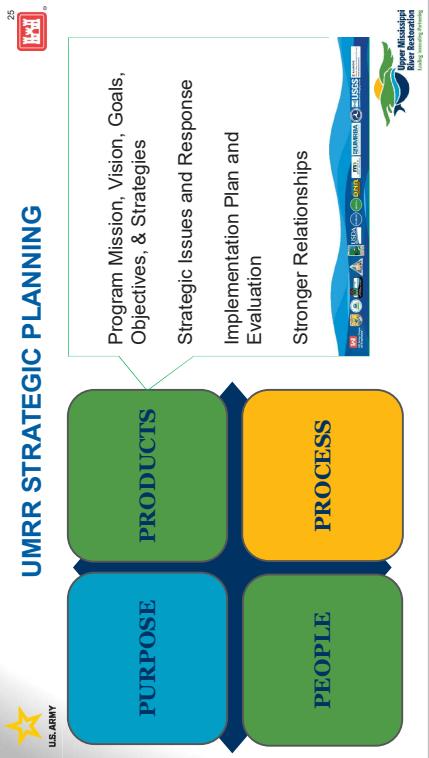


UMRR STRATEGIC PLANNING



- May 2025 UMRR CC – Endorsement of Fact Sheets by UMRR CC





SIGN UP FOR FUTURE REACH PLANNING UPDATES

Sign up for updates here:



Sign up for updates on NESP ecosystem restoration reach planning efforts!

Receive notices of:

- public meetings,
- planning discussions in your area(s) of interest,
- and reach planning updates.

You can opt to remove yourself from these emails or invitations at any time.

You are welcome to submit this form multiple times for different people within your organization.

THE FUTURE OF HREP MONITORING...

u.s. army

Begins with where we have been...



"lack of information has made it difficult for federal and state agencies to manage the river system for the competing uses."
-109.2 (Upper Mississippi River Basin Commission)



THE FUTURE OF HREP MONITORING...

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Begins with where we have been...WRDA 1986

(e)Program Authority
(1)Authority
(A) In general. The Secretary, in consultation with the Secretary of the Interior and the States of Illinois, Iowa, Minnesota, Missouri, and Wisconsin, may undertake, as identified in the master plan

- (i) a program for the planning, construction, and evaluation of measures for fish and wildlife habitat rehabilitation and enhancement, and implementation of a long-term resource monitoring, computerized data inventory and analysis, and applied research program, including research on water quality issues affecting the Mississippi River (including elevated nutrient levels) and the development of remediation strategies.



THE FUTURE OF HREP MONITORING...

u.s. army

Begins with where we have been...3rd Annual Addendum 1988

Performance Evaluation of Habitat Projects

Objectives - determine the effectiveness of each project in attaining physical and chemical habitat improvement objectives as described in the Feasibility Report

Project performance will be reported using descriptors of physical and chemical habitat conditions.

Parameters to be monitored we will emphasize tracking of "first order" changes in which cause and effect relationships are readily observed.

For most projects we will attempt to keep monitoring costs to an average of \$1-2,000 per year.

Specific monitoring needs will be based on the project's objective(s) as stated in the Definite Project Report and measurements specified in the O&M Manual.

Performance evaluation will be reported for the life of the project. Monitoring needs will be determined through consultation and agreement between all groups involved in project development and may vary through the life of the project.

POLICY AND GUIDANCE FOR HREP MONITORING & ADAPTIVE MANAGEMENT

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Water Resources Development Act (WRDA) 2016, Sec. 1161
- Implementation Guidance 19
OCT 2017

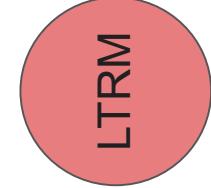


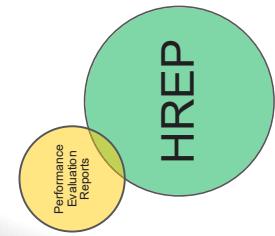
https://planning.erdc.dren.mil/bulletin/library/WRDA/
WRDA16/GSection1161_19Oct17.pdf

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WHERE WE STARTED





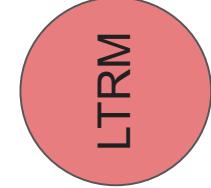
Performance Evaluation Reports

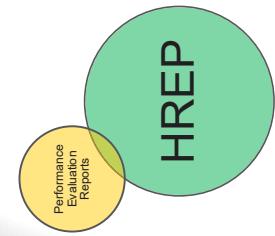
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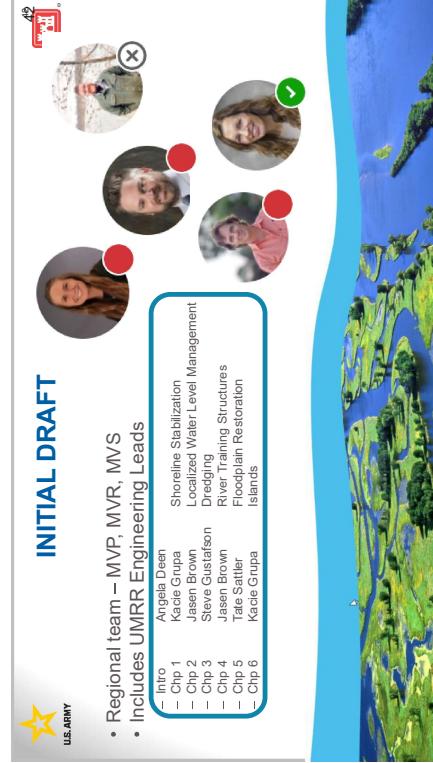
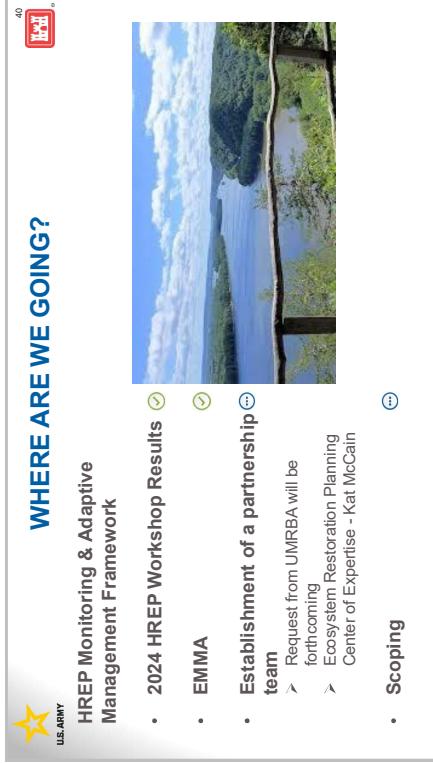
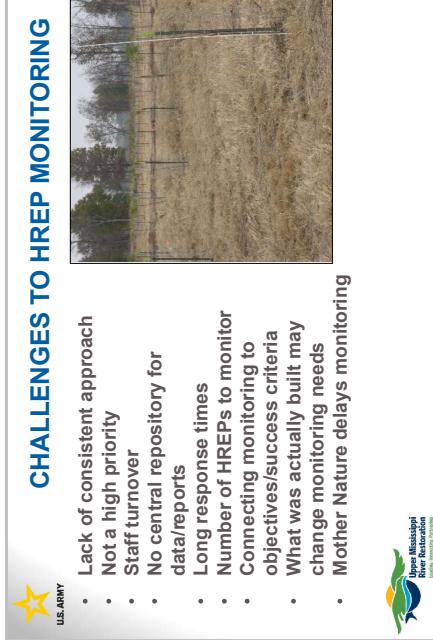
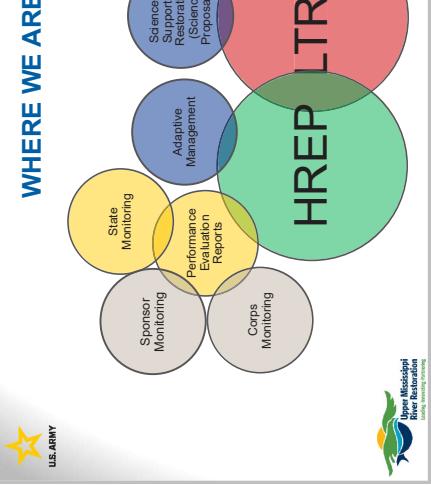
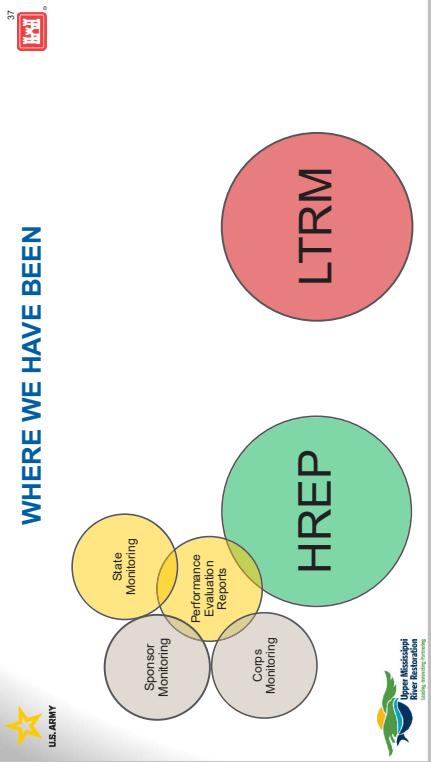
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WHERE WE STARTED





Performance Evaluation Reports





REVIEW SCHEDULE

- 20 Feb: Kick-off meeting (Regional HREP SMEs)
 - 24 Feb: Internal Review starts
 - 21 March: Internal Review due (1 month)
 - 18 April: Edits incorporated (1 month)
- After Corps Review, next steps:**
- Incorporate graphics (UMRR Photo Contest)
 - Writer/editor and Plumley review
 - Agency Review
 - Complete Update



UPCOMING REQUEST FOR AVAILABILITY

- UMRCC
- April timeframe
- Funding scenarios post FY 25 budget
- FY 26 Presidents Budget
- Federal guidance updates
- Federal and State staffing updates



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- April timeframe
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STRATEGIC PLANNING UPDATE C1-20

- UMRCC
- April timeframe
- Funding scenarios post FY 25 budget
- FY 26 Presidents Budget
- Federal guidance updates
- Federal and State staffing updates



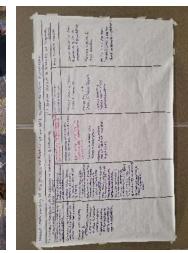
DISCUSSION



STRATEGIC PLANNING UPDATE C1-20



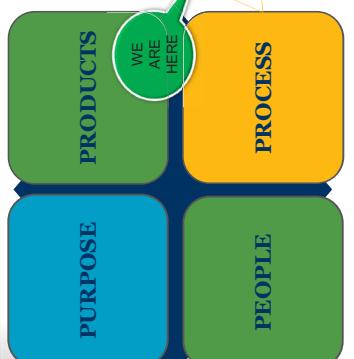
DECEMBER 2024 WORKSHOP

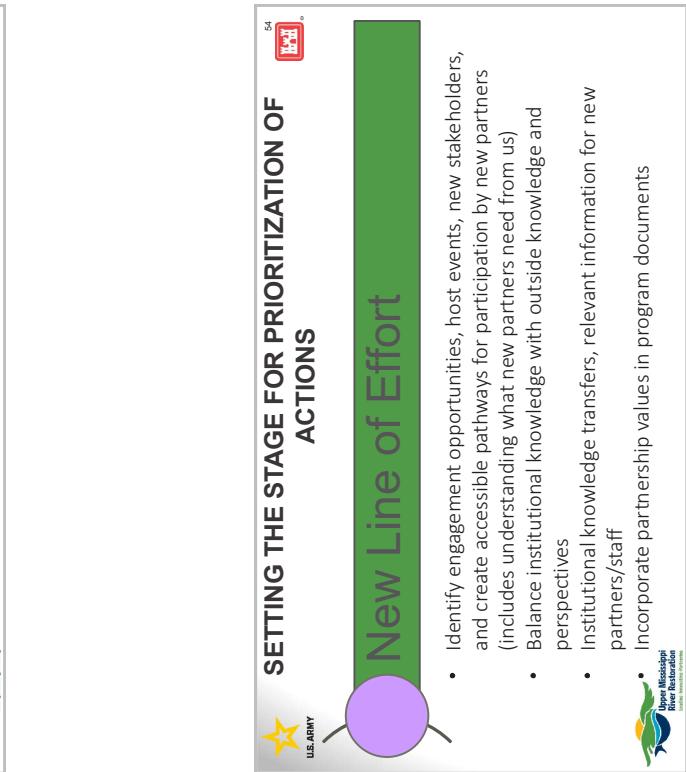
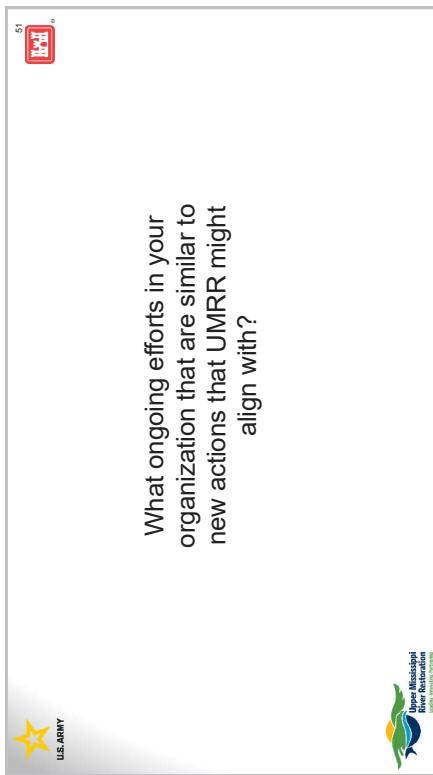
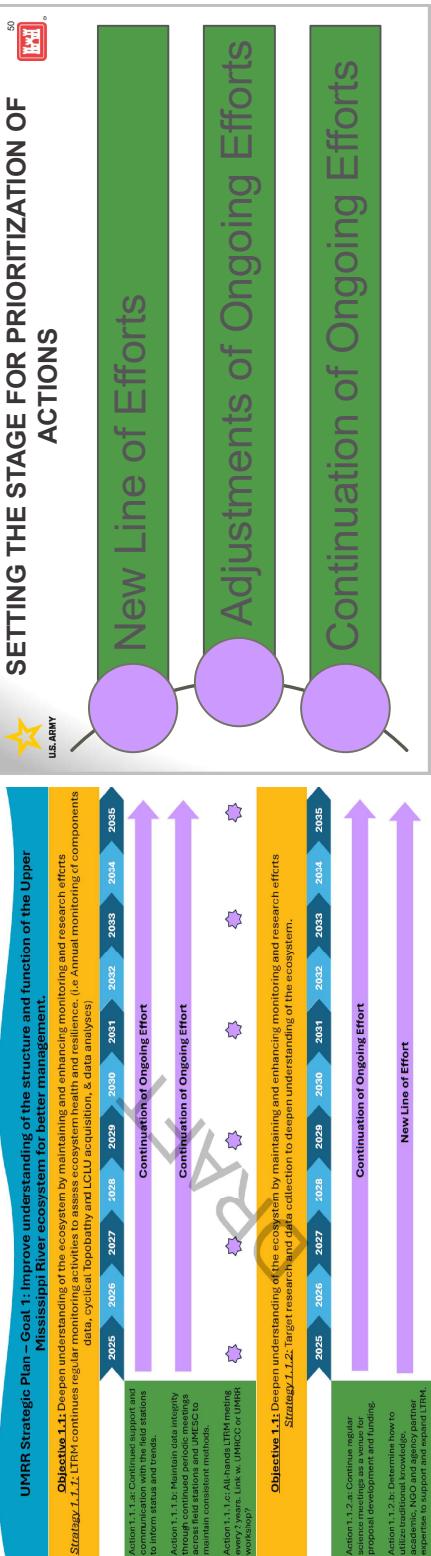


UMRR STRATEGIC PLANNING



- Phase I – Understanding Strategic Issues
- Phase II – Develop Strategic Goals and Objectives
- Phase III – Strategies and Actions
- Phase IV – Public Review Process
- Phase V – Finalize Strategic Plan





SETTING THE STAGE FOR PRIORITIZATION OF ACTIONS

New Line of Effort

- Annual meetings with basin adjacent organizations (e.g. Missouri, Lower Miss, Ohio)



STRATEGIC PLAN NEXT STEPS

56



Strategic Planning Team Review

- 24 Feb – 17 Mar: April May TBD
- Communication and Outreach Team, LTRM Analysis Team
- UMRCC Review
- Public Review

57



HABITAT REHABILITATION AND ENHANCEMENT PROJECTS - DISTRICT REPORTS



ST. LOUIS DISTRICT FY25 HREP UPDATE



58



PLANNING

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- Gillett Slough (Pool 25) IL FWS
Evaluating measures and alternatives
Habitat Evaluation Workshop 31 July
Sep 2025 - TSP Milestone
Dec 2026 - Public Review
Sep 2026 Report Submittal
- Reds Landing, IL (Pool 25) IDNR
Evaluating measures and alternatives
Working on OMR&R and MAM costs
Nov 2025 - TSP Milestone
Jan 2026 - Public Review
Nov 2026 Report Submittal
- Meredosia Island – Illinois River - FWS
Identify Key USACE Team Members
Plan for late summer / fall kick-off

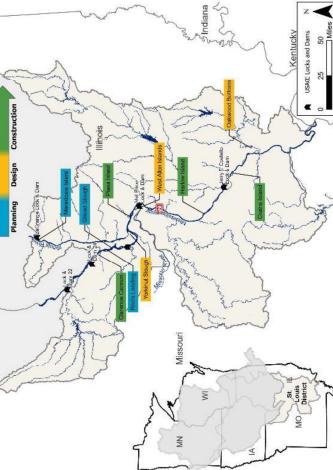


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St. Louis District - Current Habitat Rehabilitation and Enhancement Projects

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DESIGN

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- Clarence Cannon HREP – Pool 25, MO - FWS
 - Stage 5, Remaining Items P&S Package
 - FY26 Award
- Swan Lake FDR – Pool 26, IL - INDR / FWS
 - Design Phase with multiple packages
 - Completed Stage 1 30% Design
 - FY26 Award
- Yorkinut Slough, HREP (IL River) FWS
 - Design Phase with multiple packages
 - Completed Stage 1 30% Design
 - FY26 Award
- Crains Island HREP (Open River), MO - FWS
 - Stage 3 Excavation Hydraulic & Land based
 - FY25 Award
- Hardow Island HREP (Open River), IL - FWS
 - Complete Stage 2, P&S for FY25 or 26 Award
- Yorkinut Slough, HREP (IL River) FWS
 - Design Phase with multiple packages
 - Completed Stage 1 30% Design
 - FY26 Award
- Hanlow Island, IL HREP (Open River) FWS
 - Stage 1 Construction continues as weather allows
 - Earthwork – ridge and swale

**Lower Mississippi River Rehabilitation
Licensing, Monitoring, Operating**

CONSTRUCTION

U.S. ARMY

- Clarence Cannon Refuge, MO (Pool 25)
 - Restoration - Staged, completed fall 2024
 - Last Stage in Design!
- Plasa & Eagles Nest, IL HREP (Pool 26) IDNR
 - Stage 2 – Side Channel Excavation and Island Building
 - Back to work after winter shut down

**Lower Mississippi River Rehabilitation
Licensing, Monitoring, Operating**

CONSTRUCTION

U.S. ARMY

- Clarence Cannon Refuge, MO (Pool 25)
 - Restoration - Staged, completed fall 2024
 - Last Stage in Design!
- Plasa & Eagles Nest, IL HREP (Pool 26) IDNR
 - Stage 2 – Side Channel Excavation and Island Building
 - Back to work after winter shut down

**Lower Mississippi River Rehabilitation
Licensing, Monitoring, Operating**

OTHER ACTIVITIES

U.S. ARMY

- New Project Concepts / Draft Fact Sheets
 - Mississippi and Illinois Rivers
 - Workshops completed
 - Sponsors review and input completed
 - Initial Facts Sheets Drafted
 - River Team (RRAT) supports
- Outreach - HREP Interpretive Signage
 - Installed Plasa and Eagles Nest Islands
 - Initiating Yorkinut Slough design
- Performance Evaluation & Monitoring
 - Construction DIQ Contract
 - 5 year 350m
 - HREP SOW
- Partner River Trip
 - MVS Pools
 - Coordinating dates Aug / Sept TBD

**Lower Mississippi River Rehabilitation
Licensing, Monitoring, Operating**

CONSTRUCTION

U.S. ARMY

- Crains Island, IL HREP (Open River) FWS
 - Stage 3 pre-bid contractor site visit. Acquisition underway
- Hanlow Island, IL HREP (Open River) FWS
 - Stage 1 Construction continues as weather allows
 - Earthwork – ridge and swale

**Crains Island HREP
Stage 2 Earthwork**

**Lower Mississippi River Rehabilitation
Licensing, Monitoring, Operating**

Rock Island District - Current Habitat Rehabilitation and Enhancement Projects

U.S. ARMY

**Lower Mississippi River Rehabilitation
Licensing, Monitoring, Operating**

ROCK ISLAND DISTRICT

FY 25 HREP UPDATE

U.S. ARMY

**Lower Mississippi River Rehabilitation
Licensing, Monitoring, Operating**

PLANNING

U.S. ARMY

67

➤ Lower Pool 11 – Pool 11, WI

- Kickoff meeting completed
- PDT is finalizing POOCs
- Next Step: Measure Workshop scheduled to April 3rd

➤ Pool 12 Forestry – Pool 12, IA/IL/WI

- Report is Approved
- PDT working on printing and posting report
- Next step: MOA

➤ Green Island – Pool 13, IA

- Report is Approved
- PDT working on printing and posting report
- Next step: Agreement – waiting on HQ



PLANNING

U.S. ARMY

68

➤ Lower Pool 13 Phase I – Pool 13, IA/IL

- PDT is finalizing cost and habitat analysis on the final array
- Next step: Run the CE/ICA and select the TSP

➤ Pool 18 Forestry – Pool 18, IA

- Completed the cost and habitat analysis for the final array
- PDT has selected the TSP
- Next step: Pre-TSP meeting with MVD is scheduled for March 3rd

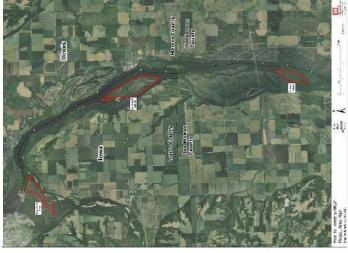


PLANNING

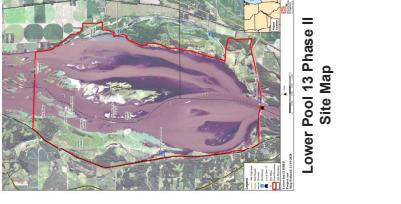
U.S. ARMY

69

Pool 18 Forestry Site Map



Lower Pool 13 Phase II – Site Map



Lower Pool 13 Phase II



PLANNING

U.S. ARMY

70

➤ Quincy Bay – Pool 21, IL

- Report is Approved
- Report is printed and posted on the UNMR website
- Next step: PDT working AE SOW for Design and agreement

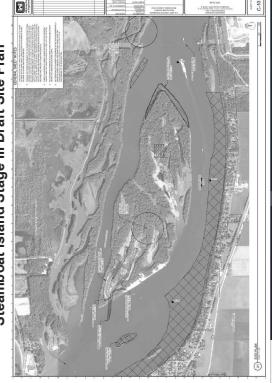


DESIGN

U.S. ARMY

70

Steamboat Island Stage III Draft Site Plan



Steamboat Island Stage III Draft Site Plan

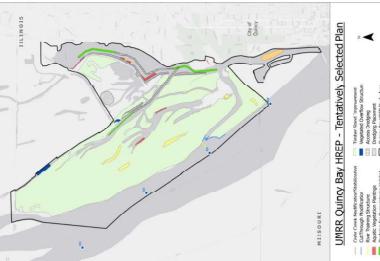


PLANNING

U.S. ARMY

69

URRQ Quincy Bay HRFP – Tentatively Selected Plan



URRQ Quincy Bay HRFP – Tentatively Selected Plan



DESIGN

U.S. ARMY

70

➤ Lower Pool 13 Stage I – Pool 13, IA/IL

- Addressed 30% reviews comments
- Started 60% reviews on February 14th
- Next step: Complete 60% review

➤ Steamboat Island Stage II – Pool 14, IA/IL

- Addressed 30% reviews comments
- Started 60% reviews on February 18th
- Next step: Complete 60% review

➤ Quincy Bay – Pool 21, IL

- PDT working the SOW for the AE design
- Next step: Award a contract for AE design by June



CONSTRUCTION

U.S. ARMY

71

Keokuk Division Stage I – Spillway - ACM

- Contractor has been placing the ACM on the spillway

➤ Keokuk Division Stage II, Pool 18, IL

- Contractor is not working; subcontractors waiting on payment

➤ Huron Island, Stage III – ERDC, Pool 18, IA

- Survival survey is being scheduled
- ERDC working on final report



CONSTRUCTION

U.S. ARMY

71

➤ Beaver Island Stage I, Pool 14, IA/IL

- All work completed
- O&M manual completed

➤ Steamboat Island Stage I – Pool 14, IA/IL

- Completed construction
- Contract is closed out

➤ Steamboat Island Stage II, Pool 14, IA/IL

- Contractor has demo for the winter
- OD contractor placed dredged material at the head of Steamboat Island





U.S. ARMY

OTHER ACTIVITIES

- FY 25 SOW:
 - TBD
 - FY 25 SOW:
 - Keihans—out for bid



River Restoration
Leading Biodiversity Financing

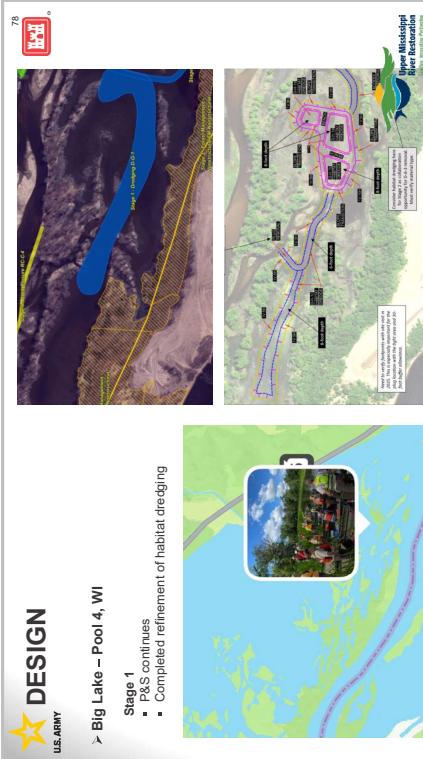
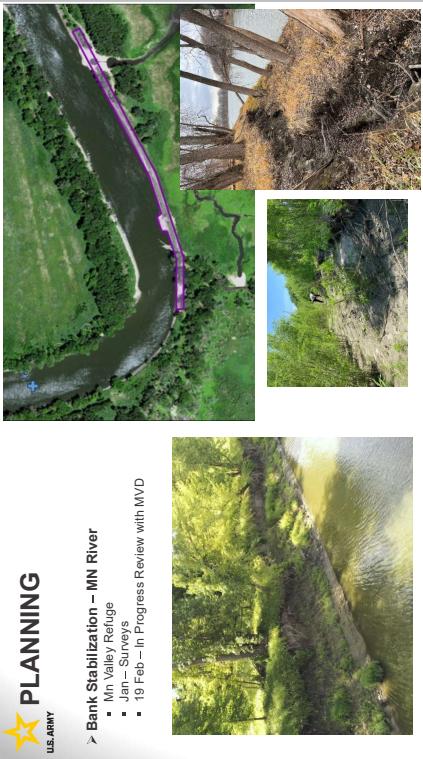


U.S. ARMY

ST. PAUL DISTRICT
FY25 HREP UPDATE



Upper Mississippi River Restoration



U.S. ARMY

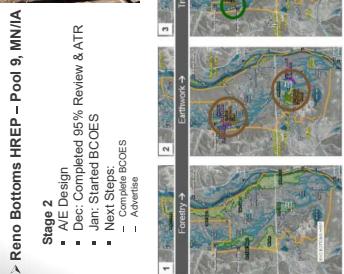


DESIGN

Reno Bottoms HREP – Pool 9, MN/IA

Stage 2

- A/E Design
- Dec: Completed 95% Review & ATR
- Jan: Started COES
- Next Steps:
 - Complete COES
 - Advertise



CONSTRUCTION

Lower Pool 10 HREP – Pool 10, IA

Stage 1

- Contract Awarded
 - 22 April: Earth Day Groundbreaking Event
 - Southern Islands

Stages 2 & 3

- Final Reviews
- BCOEs
- Next Steps: Advertise Stage 3

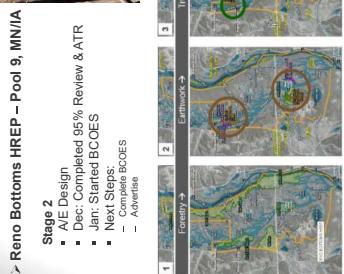


CONSTRUCTION

Reno Bottoms HREP – Pool 9, MN/IA

Stage 2

- A/E Design
- Dec: Completed 95% Review & ATR
- Jan: Started COES
- Next Steps:
 - Complete COES
 - Advertise



CONSTRUCTION

McGregor Lake HREP – Pool 10, WI

Stage 1: 100% Complete

- O&M Manual: Completed Main Report
- As-built almost completed
- Turnover Letter

Stage 2:

- March: Harvesting willows
 - Fall: berm mixing, final grading, seeding
- Overall:
- Lessons Learned
 - Thin Layer Placement
 - Preparing for final tree planting contract



82



COMMUNICATIONS



82



83



Upcoming Efforts

- 2022 UMRR Report to Congress support
- UMRR Strategic Planning support
- 40th Anniversary of UMRR planning (2026)
- Program Storytelling
- ...and many others!



UMRR COMMUNICATION AND OUTREACH TEAM

Update



INAUGURAL UMRR PHOTO CONTEST

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

❖ Submissions were accepted until October 31

❖ Round 1 judging began November 5

❖ Round 2 judging occurred November 21-December 13

Categories:

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

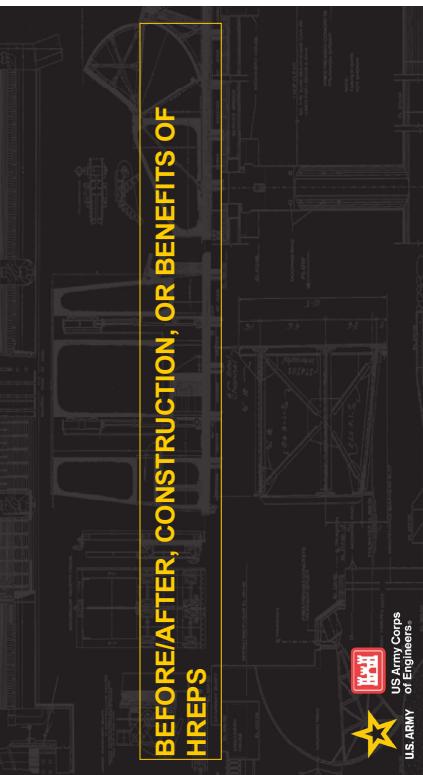
90 photos submitted!



INAUGURAL UMRR PHOTO CONTEST RESULTS



BEFORE/AFTER, CONSTRUCTION, OR BENEFITS OF HREPS



88
HARPERS SLOUGH HREP POST-WETLAND CONSTRUCTION
KACIE GRUPA, USACE ST. PAUL DISTRICT

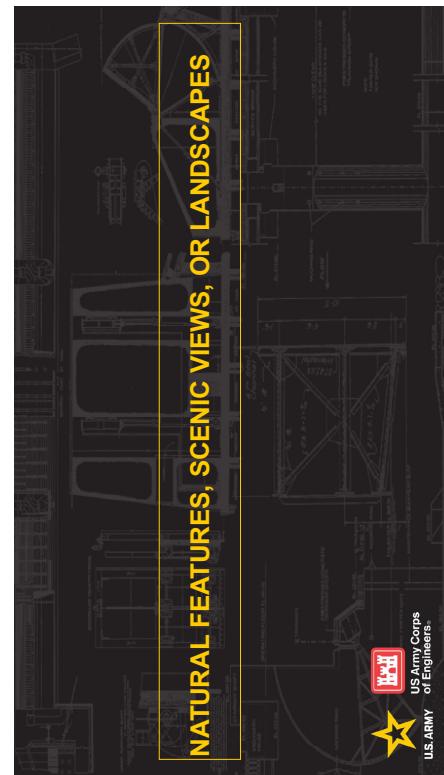
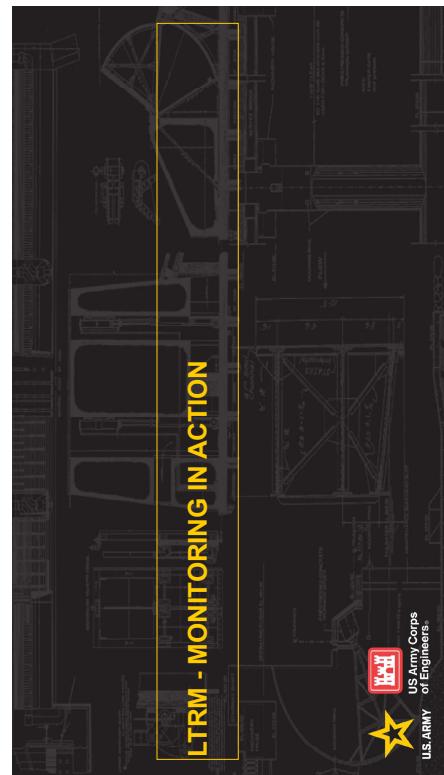
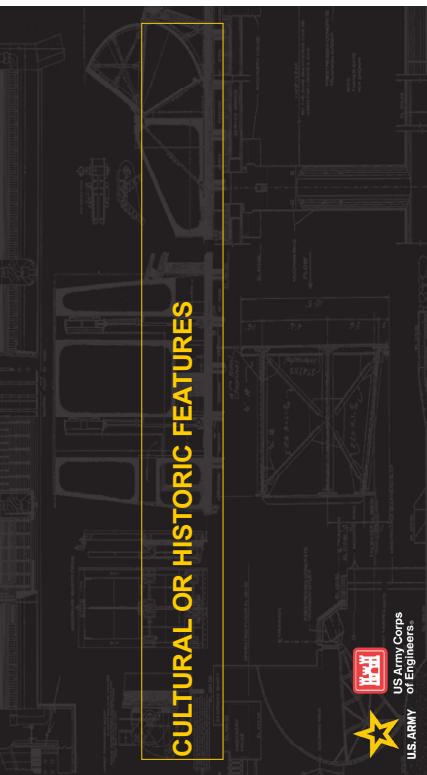
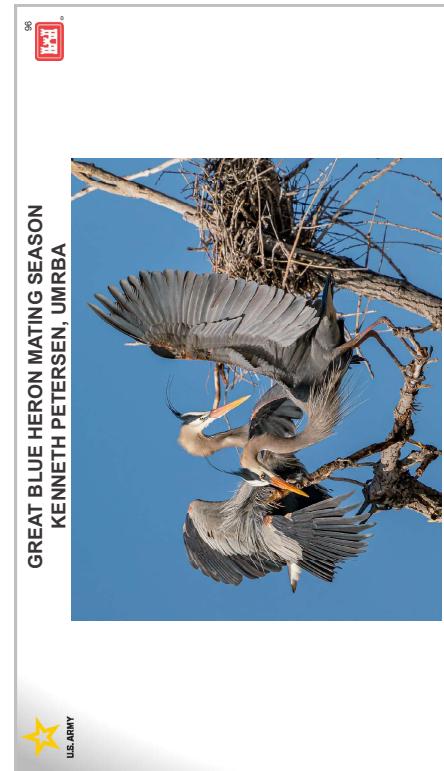
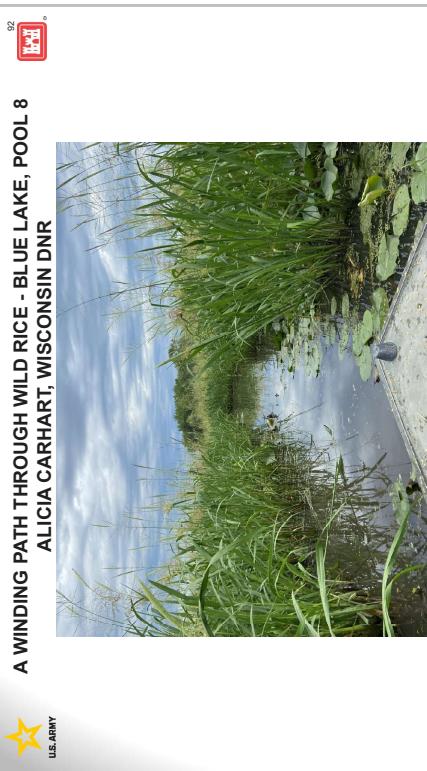


CONNECTING PEOPLE WITH NATURE, HUMAN USE, OR PUBLIC INTERACTION



89
GIRL WITH STURGEON
KYLE VON RUDEN, USFWS







INAUGURAL UMRR PHOTO CONTEST



QUESTIONS



“Empowering Conservation Through Vision: Capturing the Upper Mississippi River’s Essence”

Next Steps:

- Prize distribution: UMRR gear or framed photo (must be under \$20) – winner's choice!
- “Our Mississippi!” Summer 2025 highlight
- Feedback & Evaluation



UMRR Communication and Outreach Team

Rachel Perrine
USACE-RPEDN-PD-F @ MVR
Rachel.E.Perrine@usace.army.mil



FWWG UMRR Task:
1. Identify 2-3 new small (up to \$15 million) to medium projects (\$15-25 million).



UMRR

Current Endorsed Fact Sheets (in 2020 priority order)

1. Lower Pool 4 Tank Pond is the last remaining phase
 2. Bank Stabilization
 3. Weir Bottoms
 4. Black River Bottoms
 5. Poo & Floodplain Forest
 - Reno Bottoms (Phase II)
- P21 Feasibility Study will be selected from this list

FWWG NESP Task:
1. Identify 5 new projects. Total cost (planning/construction/contingencies) not to exceed \$25 million.

NESP

Current Endorsed Fact Sheets (2021/2023)

1. Systemic Forest Restoration (Multi-Pool)^a
2. North-Sturgeon Lake (Pool 3)^b
3. Swift and Dead Sloughs (Pool 11)
4. Trempealeau NWR Island Construction (Pool 6)^c
5. Upper Re No (Pool 9)^d
6. Systemic Bankline Stabilization and Natural Levee (Multi-Pool)^e

^a Site from Recovery 2, 2024 FWWG Meeting

^b Site from Recovery 2, 2024 FWWG Meeting

^c Site from Recovery 2, 2024 FWWG Meeting

^d Site from Recovery 2, 2024 FWWG Meeting

^e Site from Recovery 2, 2024 FWWG Meeting

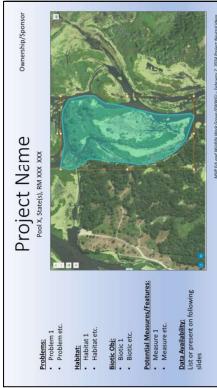
FWWG

How did we get to final project recommendations?

- December-January – Partners identified potential program neutral projects.

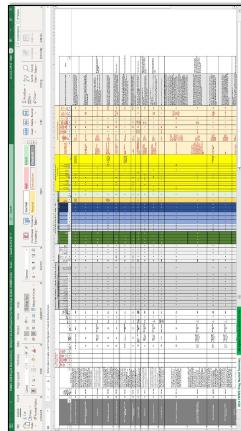
Identified potential project locations:

- December-January – Partners identified potential program neutral projects.
 - February 2024 – Partners presented program neutral project ideas to FWWG (23 total).



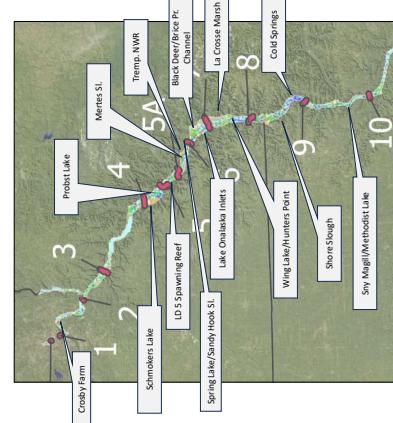
Refined details of each potential project:

- December-January – partners identified potential program neutral projects.
 - February 2024 – Partners presented program neutral project ideas to FWWG (23 total).
 - March-April 2024 – Agencies populated spreadsheet with details about the projects.



Narrowed down the project list by sequencing of projects:

- December-January – partners identified neutral project ideas to FWWG 23 (2).
 - February 2024 – Partners presented program neutral project ideas to FWWG 23 (2).
 - March-April 2024 – Agencies populated spreadsheet with details about the projects.
 - May 2024 – Agencies sequenced proposed projects using the following:
 - 1 = H-High – Implement fast
 - 2 = M-Medium – implement after high completed
 - 3 = L-Low – implement last



Identified Fact Sheet

- December-January – Partners identified potential program neutral projects.
 - February 2024 – Partners presented program neutral project ideas to FWWG (23 total)
 - March/April 2024 – Agencies populated spreadsheet with details about the project
 - May 2024 – Agencies sequenced proposed projects using the following:
 - 1 H = High – Implement first
 - 2 M = Medium – Implement after high complete
 - 3 L = Low – Implement last
 - June 2024 – Agency Voting 14 projects to move into sequencing and selected 14 projects to move into draft fact sheet development.

FWWG Recommended Projects

UWRR- FWWG Recommended Fact Sheets

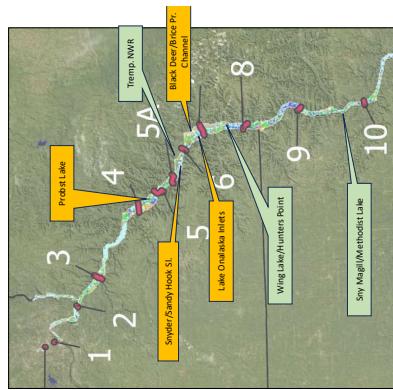
1. Wing Lake/Hunters Point- Pool 8*
2. Sny Magill- Methodist Lake- Pool 10*
3. Trempealeau NWR- Pool 6*

**UNRR- Secondary Fact Sheets

- Probst Lake- Pool 5
- Lake Chalak Inlets- Pool 7
- Snyder Lake and Sandy Hook Slough- Pool 5A
- Black Deer/Briar Prairie Channel- Pool 7
- Wing Lake/Hunters Point- Pool 8
- Sny Magill/Methodist Lake- Pool 10

* October for project to be included if additional funding available. All fact sheets have ready to go and in the hopper.

* December 10, 2025- RRF Endorsed Fact Sheets



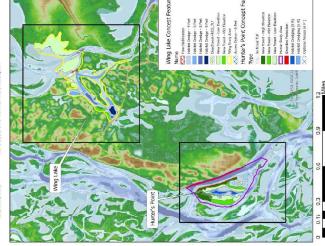
Wing Lake and Hunters Point Backwaters

• Location: Pool 8 (RM 690.6-692.8)

• Sponsor: USFWS (100% Federal) Financial Data: \$22.7M

• Problem Identification:

- Decline in quantity and quality of forest resources
- Island fragmentation
- Sedimentation of backwaters
- Preliminary Objectives:
 - Restore and enhance off-channel backwaters
 - Restore and maintain island habitat
 - Restore/increase isolated wetlands
 - Restore floodplain forest distribution, age, and species diversity
 - Preliminary Proposed Features:
 - Habitat dredging
 - Island restoration using dredged material
 - Forest establishment on dredge material placement
 - Shoreline stabilization



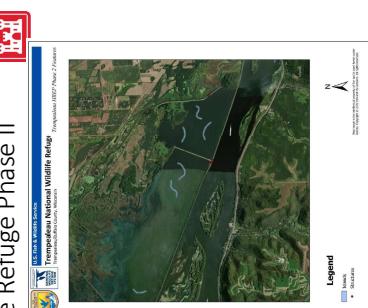
Trempealeau National Wildlife Refuge Phase II

• Location: adjacent to Pool 6 (RM 718.7-725.6)

• Sponsor: USFWS (100% Federal) Financial Data: \$29.7M

• Problem Identification:

- Impaired water quality
 - Increased prevalence of harmful algal blooms
 - Reduction in suitable waterfowl habitat
- Decrease in aquatic vegetation
 - Increase in aquatic invasive species
- Preliminary Objectives:
 - Improved ability to manage water levels
 - Improved water quality
 - Increased prevalence of emergent and submergent aquatic vegetation
 - Improved wildlife breeding, resting, and feeding habitat
 - Additional land/or larger water control structures
 - Habitat dredging
 - Island construction



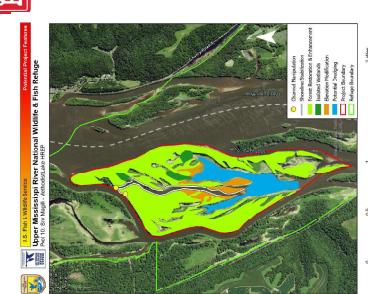
Sny Magill - Methodist Lake

• Location: Pool 11-RM 625 - 627.5)

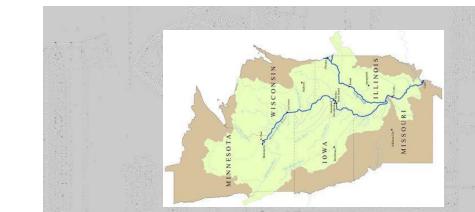
• Sponsor: USFWS (100% Federal) Financial Data: \$26.6M

• Problem Identification:

- Decline in quantity and quality of forest resources
- Island fragmentation
- Sedimentation of backwaters
- Preliminary Objectives:
 - Restore and enhance off-channel backwaters
 - Restore and maintain island habitat
 - Restore/increase isolated wetlands
 - Restore floodplain forest distribution, age, and species diversity
 - Preliminary Proposed Features:
 - Habitat dredging
 - Island restoration using dredged material
 - Timber stand improvement
 - Forest establishment on dredge material placement
 - Shoreline stabilization
 - Isolated wetland creation



NEXT GENERATION FACT SHEET DEVELOPMENT



Upper Mississippi River Resource Coordinating Committee
Mississippi Valley Division
Rock Island District
Upper Mississippi River Restoration Program

Date: 26 February 2025

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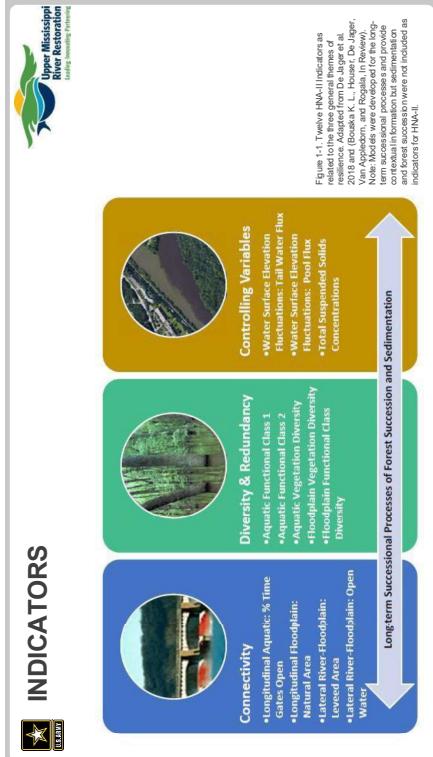


Guidance to River Teams

- Develop 6 to 10 projects of varying size and complexity using the fact sheet template.
- Limit fact sheets to 4 pages (excluding maps), pointing to references such as technical reports, other project fact sheets, white papers, journal articles, etc.
- Projects should be developed in consultation with federal, state, and nonprofit organization sponsors. Nonprofit or local organization participation will be facilitated through a "champion" voting member on the river team.
- Decision support tools can be developed as needed and upon request.
- Use decision logs and record discussions throughout the process to ensure transparency, adequate understanding and buy-in, and to inform future project selection efforts.
- Invite candidate cost-sharing non-profit organizations to consider submitting an HREP proposal.
- Use a structured decision-making exercise to describe whether and how projects will maintain or improve for each respective HNA-II indicator.
- Project overlapping with completed restoration efforts need to 1) describe changed ecological structure, function, & process, 2) describe additional habitat benefits beyond the previous project, 3) secure concurrence from District HREP Manager & UMR Regional Program Manager



INDICATORS



FWIC WORKSHOP

26 Oct 2023 – Virtual Workshop

- Program overviews & asks
- HNA II and Indicators Summary
- AGOL Intro & Tutorial
- Review Potential Projects

13 Nov 2023 – In-person Workshop

- Review AGOL exercise
- Sticker Exercise
- Develop Screening Criteria
- Structured Mapping Exercise
- Review Potential Projects

FWIC FACT SHEETS



Location: Pools 13 (RM 540-560)

- Crooked Slough, Peak, Laramie Slough and Savanna Bay Complex
- Problem: Many of the remaining bioblitz areas in Pool 13 suffer from a loss of diversity, lack of natural regeneration, increased fragmentation, and loss of habitat from erosion. Increased flooding (both frequency and duration), sedimentation, and increased channel incision have led to significant habitat loss and degradation in Pool 13.

UPPER POOL 13

Location: Pools 11-14 (RM 540-660)

Problem: Many of the remaining bioblitz areas in Pool 13 suffer from a loss of diversity, lack of natural regeneration, increased fragmentation, and loss of habitat from erosion. Increased flooding (both frequency and duration), sedimentation, and increased channel incision have led to significant habitat loss and degradation in Pool 13.

Goals: see fact sheet

Proposed Features:

- Tidal wetland restoration
- River bank structures
- Bank stabilization
- Small island restoration

Implementation Considerations:

- Species of concern (egrets, muskrats, and bats)
- Phased construction
- Integration with Channel Maintenance

Financial Data: 2020 cost estimate \$20-25 million/100% Federal

Sponsor: USFWS

*Factsheet endorsed in 2020

11



12



GENEVA & HERSHHEY ISLANDS

Location: Pools 16RM 458-682

Problem: Hershey Island and Geneva Island include interconnected backwaters, flowing side channels, islands, mature bottomland forest, floodplain, and wetlands. This island has significantly declined due to construction of the lock and dam system, which resulted in increased water elevation. Recent flooding, at high level of Lake Superior-Erie Sustained Surface (LSESS), Additionally, Hershey Island has lost approximately 80% of its landmass.



Figure 1: Geneva and Hershey Islands 2020 Imagery

Legend:

USGS River & Lake

Backwater dredging

Riverbank stabilization

Tidal wetland restoration

Hershey Island dredging

Geneva Island dredging

N

Goals: see fact sheet

Proposed Features:

- Backwater dredging
- Riverbank stabilization
- Tidal wetland restoration

Implementation Considerations:

- Data gaps: Inventory existing resources & modeling
- Hershey Island within State of Iowa boundary
- Minimal restoration efforts in Pool 16

Financial Data: 2020 cost estimate \$8 million/100% Federal

Sponsor: IDNR

*Factsheet endorsed in 2020

13



14



MULTI-POOL HABITAT PROTECTION

Location: Pools 11 (RM 600-660)

Problem: The HWA has identified banks erosion and island dissection as major factors contributing to the decline in habitat quality throughout the IJMR corridor. Wind and current generated waves in large open-water habitats caused by the dams contribute to island erosion and sediment re-suspension, with banks observed to be eroding at rates ranging from 0.3 to 3.7 feet per year. High annual flow resulting from changing climate has been creating new erosional and depositional areas (Sandusky et al. 2014). Coffees and those habitats located near the mouth and delta of the IJMR may experience severe bank erosion.

Goals: see fact sheet

Proposed Features:

- Closure features constructed of rock and earthen
- Historic structures construction and enhancement
- Forest creation, diversification, and enhancement activities

- Integration with Channel Maintenance
- Potential mussel constraints

Financial Data: 2020 cost estimate \$2 to 10 million/100% Federal

Sponsor: USFWS

*Factsheet endorsed in 2020

15

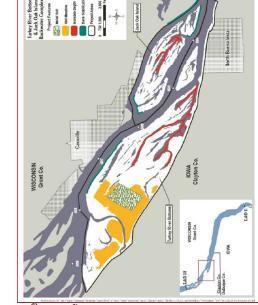


16



Turkey River Bottom

Location: Pool 11 (RM 600-660)



Problem: Identified problems include lack of migratory bird habitat, loss of moist tree diversity, poor cover, nesting habitat, and poor seepage habitat for fish and wildlife. The floodplain is one of the most productive riparian habitats in the state. The proposed activities will help to restore habitat for tree regeneration and an increase of diversity. Loss of forest habitat has led to an increase in invasive species. Backwater lakes in the area include too little depth and summer stratification, fish movement is restricted at the entrance to the lakes and fish become trapped in oxygen depleted areas.

Goals: see fact sheet

Proposed Features:

- Backwater dredging
- Forest restoration and enhancement

Implementation Considerations:

- Topographic diversity
- Non-essential
- Potential mussel constraints

Financial Data: 2 phases/\$38.8 million 1st phase/100% Federal

Sponsor: USFWS

*Updating previously approved fact sheet

Lower Pool 11 SAV

Location: Pool 11 (RM 586.5-583)

Problem: Land cover data has been used to quantify changes in waterfowl habitat within the proposed project area. Acreage of submerged aquatic vegetation (SAV) declined 70% from 2010 to 2020. Submerged aquatic vegetation can be impacted by high levels of Total Suspended Solids (TSS). Suspended solids in the water column reduce the amount of light available to SAV and TSS levels in the spring. The project area is characterized by long wind fetch distances which can result in larger waves and to orbital wave velocities extending farther down the water column, leading to resuspension of sediment from bottom substrates. These factors play a role in limiting the prevalence of SAV in the project area through their influence on TSS.

Goals: see fact sheet

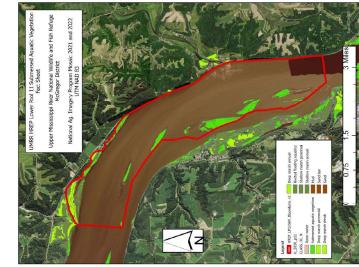
- Proposed Features:**
- Island restoration, land and stabilization
 - River structures (berms), rock mounds, seed islands

Implementation Considerations:

- Consider phased construction
- Consider & integrate lessons learned from Lower Pool 13 HREP
- Potential mussel constraints

Financial Data: 3 phases:\$35.8 million first phase see 100% Federal

Sponsor: USFWS



Nine-Mile Island

Location: Pool 12 (RM 571.5 – 574.5)

Problem: Years of silt deposition have resulted in loss of quality deep water habitat and an overall degraded backwater complex. Multiple backwater lakes have sedimented in, to the point where they provide no overwintering habitat to fish, and a entire area is now open to the water. The water level is too high and or severely high water levels on sandbars have decreased its health and resilience. If floodplain habitat on island and adjacent floodplain areas, alluvial and increase in invasive species. Backflow contributes to instability of islands and increase in side channel and backwater lake sedimentation.

Goals: see fact sheet

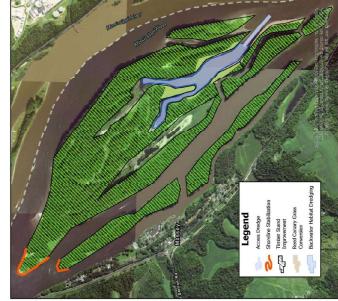
- Proposed Features:**
- Forest enhancement (TSI, ridge & swale, plantings)
 - Backwater dredging
 - Topographic diversity
 - Bankline stabilization

Implementation Considerations:

- Synergy with Pool 12 Overwetting and Foresty HREP
- Project area must maintain designation as a Slow, No Wake Area
- Potential mussel & bat constraints

Financial Data: \$34.5 million/100% Federal

Sponsor: USFWS



Spring Lake Backwater Restoration

Location: Pool 13 (RM 532 – 536.2)

Problem: Decades of sedimentation within Spring Lake have resulted in depths <2-ft in the majority of the area. There is very little bathymetric diversity and suitable year-round fish habitat, including during critical periods for survival. The 1983-1986 levee breach resulted in a large deposition of material that is now land. Invasive species, including purple loosestrife and flowering rush, are spreading throughout the lake. Historic barrier islands along the main channel protecting the perimeter levee are no longer present due to erosion, and no longer protect or prevent erosion on the perimeter levee. These issues are likely to continue, or even worsen, given the observed and predicted increases in flooding (both frequency and duration) on the Upper Mississippi River system.

Goals: see fact sheet

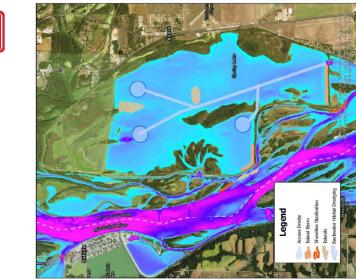
- Proposed Features:**
- Backwater dredging
 - Island creation
 - Shoreline protection

Implementation Considerations:

- Fall access restrictions to maintain habitat sanctuary
- Potential mussel & bat constraints

Financial Data: 2 phases:\$35.8 million first phase see 100% Federal

Sponsor: USFWS



Odessa Floodplain Forest & (Fox Pond) Wetland

Location: Pools 17-18 (RM435 – 441)

Problem: Repeated major flood events have caused a significant loss and degradation in forest, aquatic habitat, wetlands, and associated communities. Without action, the Project will continue to degrade and important habitat and ecological communities will be lost. Flood frequency, duration, and elevation have increased since completion of previous flood control structures, limiting ability to remove flood water from the complex quickly. Siltation also adversely impacted Fox Pond, a 300-acre moist soil management program. Ditches upstream and downstream of the pumping station have become occluded with silt and sediment, hampering moist soil production efforts and reducing critical food sources for waterfowl during migrations.

Goals: see fact sheet

- Proposed Features:**
- Water control structure
 - Backwater dredging
 - Forest enhancement (TSI, ridge & swale, plantings)

Implementation Considerations:

- Fall access restrictions on Refuge & WMA
- Closed Season restrictions on Refuge & WMA
- Fall access to some areas would need width/width restrictions

Financial Data: \$24 million/100% Federal

Sponsor: USFWS & Iowa DNR



Lower Long Island & Shandrew Island

Location: Pool 21 (RM 333.5-340.5)

Problem: The diversity and overall quality of migratory bird, wildlife, and fish habitat in the Long Island division has been reduced over the past several decades. USACE's forestry monitoring on Long Island and Shandrew Island shows an overall lack of recruitment of diverse, tall mast trees and in some areas, significant mortality of large canopy trees. These changes are primarily due to increased wood frequency and duration, introduction and spread of invasive species, continued sediment deposition from flood events, and construction of other training structures that reduce flow through the backwater channels. The communities affected by include floodplain forests, forested wetlands, shrub swamp and herbaceous wetlands, migratory birds and waterfowl, native wildlife, and fisheries resources.

Goals: see fact sheet

- Proposed Features:**
- Forest enhancement (TSI, plantings)
 - Interior channel dredging to restore flow
 - Invasive species management
 - Benthic diversity in backwaters and cahnes

Implementation Considerations:

- Invasive/aggressive species impacts prior to implementation

Financial Data: \$27 million/100% Federal

Sponsor: USFWS



FWIC RANKING METHODS

EVALUATION MATRIX



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FWIC Proposed for Endorsement



23

- Tier 1: Project implementation in the near term.
 - Tier 2: FW/C recommends project implementation through FY 2030.
 - Tier 3: These project fact sheets are high quality proposals that meet remediation needs in the proposed areas and do not require further refinement. Project areas of Tier 1 & Tier 2 are experiencing higher habitat degradation requiring more immediate

Lower Pool 11 SAV Nine Mile Pool 11 Pool 12

PAIRED COMPARISON



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RRCT ENDORSEMENT



23

- FWIC anticipates providing fact sheets and recommendations to RRCT NLT 7 March 2025

Tier:	Facet Street:	Pool(s)	Sponsor
Tier 1	Upper Pool 1-3	Pool 13	USFWS
	Geneva and Hershey Islands Multi-Pool Habitat Protection	Pool 16	IDA NR
		Multiple	USFWS
Tier 2	Turkey River Bottom	Pool 11	USFWS
	Lake Odessa Outfall/Fox Pond	Pools 17 & 18	USFWS/IA DNR
	Lower Long Island & Sandown Island	Pool 21	USFWS
	Spring Lake Backwater Restoration	Pool 13	USFWS
Tier 3	Nine Mile	Pool 11	USFWS
	Lower Pool 1-5 SAV	Pool 12	USFWS

*Factsheets are in no particular order within Tier

RRCT ENDORSEMENT



23

- FWIC anticipates providing fact sheets and recommendations to RRCT NLT 7 March 2025

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RRAT: NEXT GENERATION OF FACT SHEETS



RRAT FACT SHEET DEVELOPMENT ROLES

RRAT Exec

RRAT Tech Coordinator

RRAT Tech

Fact Sheet Development

Coordinated fact sheets

between Tech and Exec

RRAT Tech Coordinator:

Coordinated fact sheets

between Tech and Exec

RRAT Exec:

Endorsement of Fact Sheets

MDC

IDNR

USFWS

USFS

NGOs

RRAT FACT SHEET DEVELOPMENT PROCESS

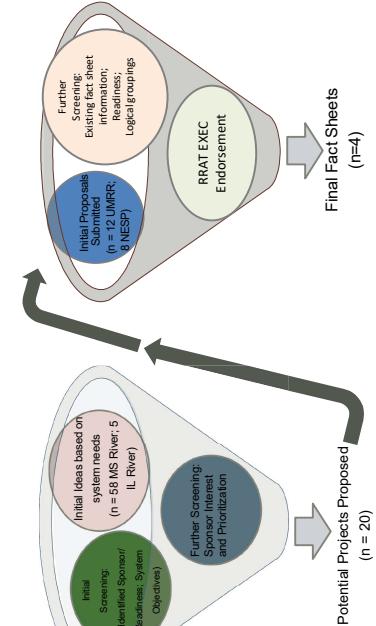
- Jan 19, 2024 - MS River Project Development Orientation Workshop (Virtual) [\(link\)](#)
- Feb 22, 2024 - IL River Project Development Orientation Workshop (Virtual) [\(link\)](#)
- Mar 7 & 8, 2024 - MS River Project Development Workshop (In Person) [\(link\)](#)
- April 9 & 10, 2024 - IL River Project Development Workshop (In Person) [\(link\)](#)
- May 14, 2024 - MS & IL River Potential Project List Submitted to Sponsors For Valuation and Prioritization [\(link\)](#)
- July 8 & 9, 2024 - MWS Review of Sponsor Feedback and Program Selection [\(link\)](#)
- July 2 - Dec - Draft Fact Sheets [\(link\)](#)
- Jan. 22 - Submit Draft Fact Sheet to RRAT for review [\(link\)](#)
- Jan. 29 - RRAT meeting for endorsement of fact sheets [\(link\)](#)
- Feb 26 - Present fact sheets to UMFCC [\(link\)](#)
- May 20 - Seeking UMFCC Endorsement

Screening



Screening

- 63 Total Potential Project Concepts Identified Based on System Needs: 58 MS River; 5 IL River.
- During in-person workshops projects were assessed for the following:
 - Identified sponsor
 - Readiness
 - Problems, Objectives, and System Needs
 - 35 -Screened
 - 28 Potential project concepts assessed based on the following criteria:
 - Sponsor interest/prioritization
 - 8 -Projects screened
 - 20 -Potential project concepts move forward for further assessment/program identification:
 - 12 UMRP; 8 NESP
 - Note - MS potential project fact sheets put on hold until further programmatic clarity provided regarding reach planning.
 - 12 -UMRP potential project concepts further assessed for:
 - Existing fact sheet information
 - Readiness
 - Logical groupings
 - 4 -UMRP fact sheet concepts moved forward for fact sheet development
 - Due to sponsor leadership changes; three additional proposed fact sheets needs further coordination before moving forward.



RRAT EXEC VOTING OF NEW PROPOSALS



RRAT EXEC Voting

X – yes to move forward for final fact sheet development

Project Name	Pool	Sponsor	USACE	USFWS	MDC	IDNR	IL DNR
Mason Island	26	MDC	X	X	X	X	
Spatterdock Slough	26	MDC	X	X	X	X	
Chouteau Island	OR	IDNR	X	X	X	X	X
Illinois Bayou	OR	USFWS	X	X	X	X	X



Mason Island

Location: Pool 26 (RM 221-218)

Sponsor: MDC (100% Federal)

Problem Identification:

- Backwater sedimentation
- Loss of sandbars and islands
- Loss of topographic and hydrologic diversity

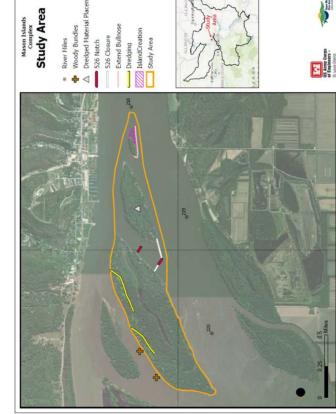
Preliminary Objectives:

- Restoration and rehabilitation of these wetland and aquatic habitats
- Preliminary Proposed Features:

- Excavation
- Island Creation
- Bullnose
- Woody Bundles
- Notching existing dikes
- Closure dikes



Study Area



Spatterdock Slough

Location: Pool 26 (RM 209-205)

Sponsor: MDC (100% Federal)

Problem Identification:

- Backwater sedimentation
- Loss of bathymetric diversity
- Loss of sandbars and islands
- Loss of topographic and hydrologic diversity

Preliminary Objectives:

- Restore wetland hydrological functioning
- Improve floodplain topographic diversity
- Increase forest diversity, including BLH

Preliminary Proposed Features:

- Excavation
- Island Building
- Sediment Deflection
- Emergent Vegetation Management

Chouteau Island

Location: Open River (RM 189-184)

Sponsor: IDNR (65:35 cost share)

Problem Identification:

- Primarily idle agricultural fields
- Degraded floodplain forest
- Modified hydrology

Preliminary Objectives:

- Restore wetland hydrological functioning
- Restore side channel and island
- Restore a wetland mosaic
- Increase forest diversity, including BLH

Preliminary Proposed Features:

- Shoreline protection
- Side channel restoration
- Island Protection
- Wetland restoration
- Floodplain forest restoration
- Backwater slough restoration

SEEKING UMRR-CC ENDORSEMENT FOR THE FOLLOWING FACT SHEETS:

Project Name **Sponsor**

Mason Island	MDC
Spatterdock Slough	MDC
Chouteau Island	IDNR
Illinois Bayou	USFWS

Illinois Bayou

Location: Open River Reach (RM 0.24)

Sponsor: USFWS (100% federal)

Problem Identification:

- Degraded emergent marsh, ephemeral wetlands, scrub-shrub, and hardwood forest areas
- Altered hydrology raising water elevations and sedimentation rates
- Sedimentation has resulted in a loss of connectivity and increased nutrient inputs

Preliminary Objectives:

- Restore aquatic hydrological function, diversity and connectivity
- Restore riparian vegetation, diversity and connectivity
- Increase forest diversity, including bottomland hardwoods

Preliminary Proposed Features:

- Water control structures restorations
- Water supply, including pumps or wells and associated features
- Trees planting and Forest Stand Improvement (FSI)
- Wetland planting
- Wetland excavation
- Ridge and swale restoration
- Rain stabilization
- River training structures

UMRR-LTRM MONITORING AND SCIENCE UPDATE

Davi Michl
Rock Island District
UMRR-CC
26 Feb 2025

US Army Corps of Engineers

POINTS OF CONTACT

Brian Markert – St. Louis District UMRR Program Manager
Brian.J.Marker@usace.army.mil

Brian Johnson – RRAT Exec Co-Chair
Brian.L.Johnson@usace.army.mil

Matt Mangan – RRAT Exec Co-Chair
Matthew.Mangan@fws.gov

NEW STUDIES
NEW DESIGNS
NEW CONSTRUCTION
MORE ACRES RESTORED

Upper Mississippi River Resource Study

UMRR MONITORING & SCIENCE FY25

U.S. ARMY

\$55 Million UMRR Program

2 SOWs in FY24

SOW for LTRM base monitoring
\$6.5M

SOW for science in support (analysis under base)
\$2.0M

Both SOWs together are equivalent to a fully funded UMRR LTRM element
\$8.5M

Science in Support of Restoration & Management
(combined with analysis under base into 1 SOW)
\$5.95M

TOTAL: **\$14.45M**



UMRR MONITORING & SCIENCE FY25

U.S. ARMY

LTRM

	Budget (gross)
MN	\$1,084,310
WI	\$580,299
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



TOPOBATHY UPDATES

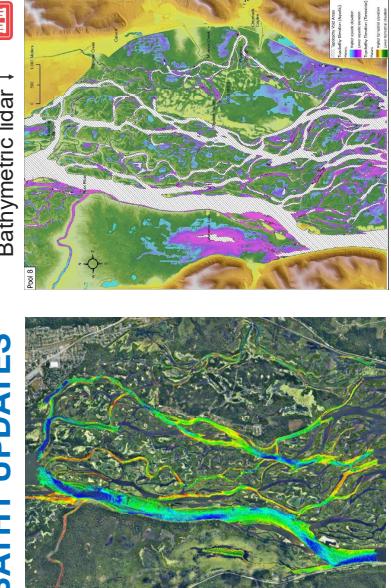
U.S. ARMY

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Bathymetric lidar ↓

FY23 Pilot Study

Sonar →



5

FY24-funded Acquisition Areas

- ILWW (La Grange to Lockport)
- Open River 2 (Ohio confluence to Grand Tower, IL)
- Lower Pool 13 Pilot

Acquisition Areas Status

- 12 task orders awarded
- Topobathy lidar completed in the Fall 2024
 - Lower Pool 13 pilot, Lockport-Marseilles, and La Grange lidar remaining
 - POCs engaged for ice-nail/water levels conditions for acquisition completion in Spring 2025



QUESTIONS?

U.S. ARMY

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Upper Mississippi River System

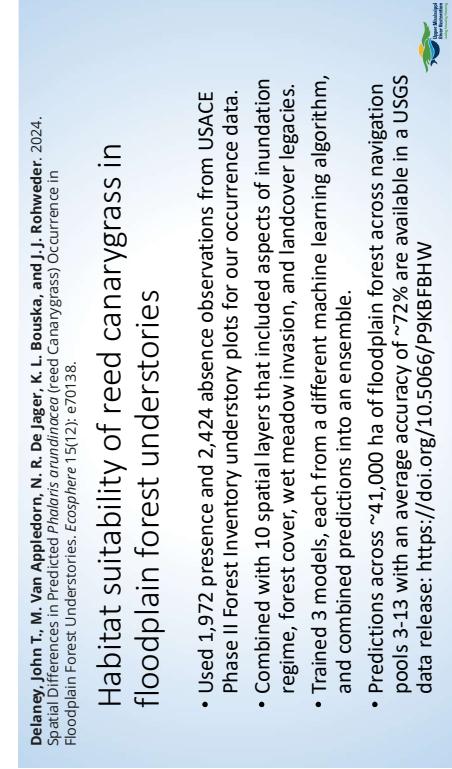
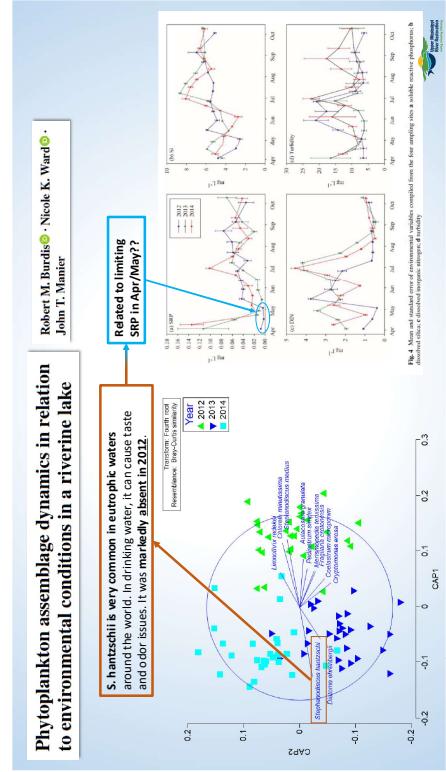
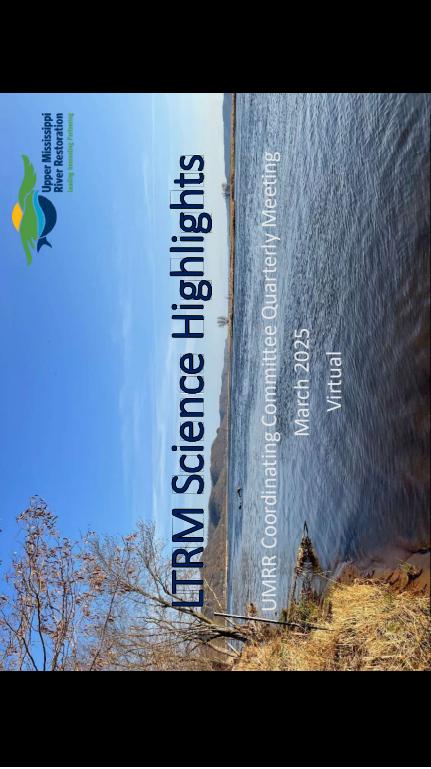
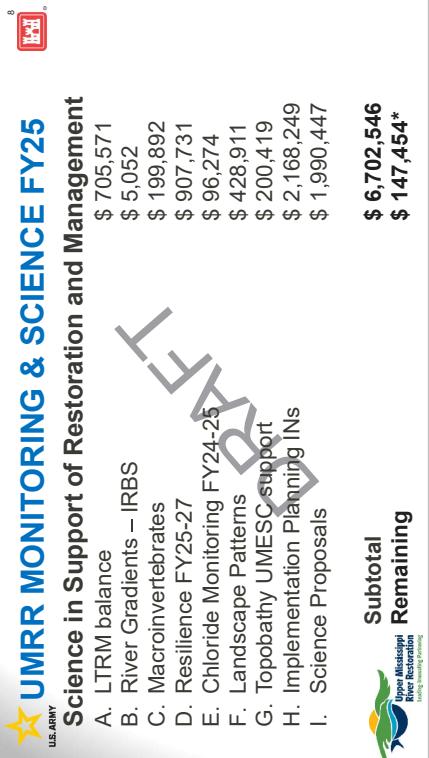
Bathymetric lidar ↓

Topobathy Acquisition FY24

- 1. Alton Pool (430 sq. miles)**
 - o Acquisition TO – Corrected Fugro
 - o QA TO – Corrected Dewberry
- 2. LaGrange Pool (417 sq. miles)**
 - o Acquisition TO – Corrected Surdex
 - o QA TO – Corrected Fugro
- 3. Perico-Starved Rock Pools (356 sq. miles)**
 - o Acquisition TO – Corrected Fugro
 - o QA TO – Corrected Dewberry
- 4. Marseilles-Lockport Pools (207 sq. miles)**
 - o Acquisition TO – Corrected Dewberry
 - o QA TO – Corrected Dewberry
- 5. Open River 2 Pool (306 sq. miles)**
 - o Acquisition TO – Corrected Fugro
 - o QA TO – Corrected Dewberry







LTRM Pool 8 Field Station Update

Past/Future Presentations

- Aquatic Vegetation presentations – Alicia Garhart
 - Guiding principles for successful long-term resource monitoring (LTRM) – Floodplain vegetation workshop
 - Moline – January 7th 2025
 - Impact of newly installed floating rush on macrophyte diversity & composition in the Upper Mississippi River – Wetland Science Conference, La Crosse – February 15-17th, 2025
 - Monitoring aquatic plant recovery in the Upper Mississippi River – Wetland Science Conference, La Crosse
 - Wild rice recovery in the Upper Mississippi River – La Crosse Area Leopold Day Celebration, The Nature Center (outreach table that will highlight UMRM/LTRM monitoring and wild rice dynamics in the river) – February 27th, 2025
 - Wild rice dynamics in the Upper Mississippi River – Green Bay Restoration Team (virtual)
- Estimates of undisturbed fish dynamics – Ben Patschull
 - Evaluation of an Underwater Camera Method to Sample Freshwater Fish Assemblages Under the Ice – Wisconsin Chapter of AFS
- Long term monitoring of Pool 8 of the Upper Mississippi River: lessons learned from decades of change* – Patrick Kelly UW-Madison – USGS Joint Seminar, UWESc – February 6th 2025



Pool 26 Field Station Update

- Provided information on fishes, river ecology, general ecology, as well as samples and/or data on fishes and ecology of the Mississippi River to the biologists, academics, the press, students and the general public.
- Collected and provided fish samples and loaned our mussel collection to a teacher from Southern Illinois to train their students for the Illinois State Envirothon competition.
- Collected fish from the Mississippi River and provided information about the species to the National Great Rivers Museum (the Corps of Engineers) display tanks, Alton, IL.
- Collected fish from the Mississippi River for a 5,000-gallon aquarium display at the IDNR's 35th annual Two Rivers Family Fishing Fair at Pere Marquette State Park, Grafton, IL.
- Assisted with fish identification teaching booth at the IDNR's 35th annual Two Rivers Family Fishing Fair at Pere Marquette State Park, Grafton, IL.
- Collected specimens of skipjack herring to assist a graduate student with their project.
- Provided opportunities for students to experience various types of fisheries, invertebrate and water quality field work, and provided training of basic field skills and techniques.



Lower Pool 13 HARPP* Update

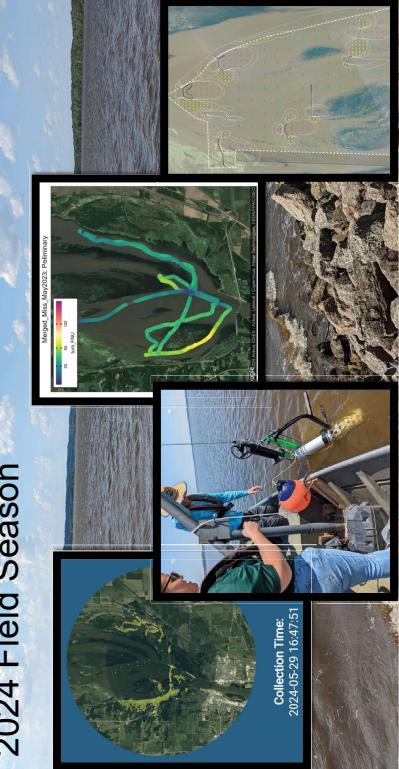
*HARPP associated research project



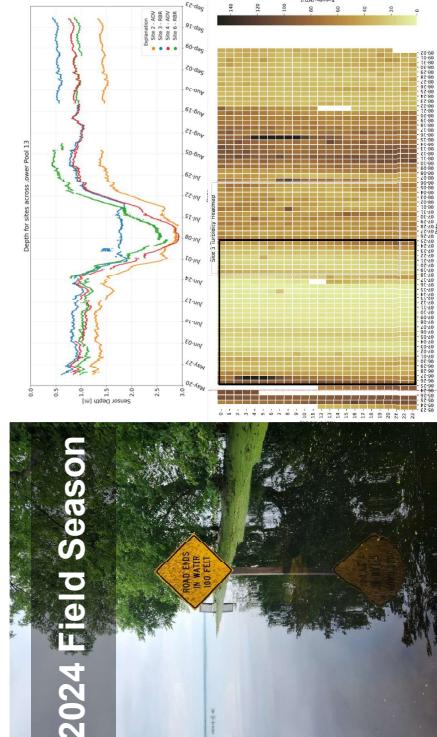
- 1) Pilot a radar-wave monitoring system to measure pre-project wave conditions
- 2) Evaluate relationships between wind, waves, and turbidity, and assess the relative contributions of upstream sources and local resuspension on turbidity
- 3) Assess spatial patterns and quantity relationships among wild celery, turbidity, velocity, and wave dynamics
- 4) Evaluate relationship between relative substrate stability and mussel assemblage characteristics



2024 Field Season



2024 Field Season



2025 Field Season



LTRM Implementation Planning Recommended Information Needs Update

Initial assessment of primary impacts of terminated positions

- Geomorphic trends in the UMRS
- River gradients from Pool 14 to Pool 25
- Floodplain vegetation change across system
- Lower trophic contribution (zooplankton and phytoplankton)
- Learning from restoration
- Aquatic plant distribution
- Terrestrial and aquatic herpetofauna (amphibians and reptiles)
- Freshwater mussels
- Macroinvertebrates *



Currently funded

- Pool 13 HARP
 - GS-11 Physical Scientist on Pool 13 HARP project;
 - For Objectives 2 and 3; this position was to be the lead on designing field data collection, analysis, interpretation and writing for 3 manuscripts
 - GS-11 Research Biologist and a GS-5 Term Biologist both working on Freshwater mussels.
 - Were responsible for substantial work within Objective 4 of Pool 13 HARP
 - Many aspects of Pool 13 HARP will be affected
 - We will pursue a subset of the originally intended products at the loss of planned work on other projects. Details TBD



Initial assessment of primary impacts of terminated positions

- GS-11 Biologist working on multiple floodplain forest and hydrology projects
 - Assessing forest development processes and pathways in floodplain forests along the Upper Mississippi River using Dendrochronology
 - Generating future hydrology and water temperature projections for the UMRs using hybrid deep learning [water temperature data base portion of this project likely cancelled]
 - Draft Report: Effects of management actions and hydrological changes on forest succession at Reno Bottoms
 - Information Need 1.1: Systemic Assessments of Floodplain Vegetation.



Initial assessment of primary impacts of terminated positions

- GS-11 Research Biologist and a GS-5 Term Biologist both working on Freshwater mussels
 - Pool 13 HARP- Objective 4
 - Draft publication on linkages between native freshwater mussel assemblages and substrate stability. May not be possible to proceed with these analyses and the associated publication.
 - Previously funded UMRR Science Meeting Project: Strategic approach to identify HREP Features that promote dense and diverse mussel assemblages
 - Eliminated positions were responsible for:
 - Serving on the team planning the organization of the project workshop
 - Literature review of habitat characteristics that promote dense and diverse mussel assemblages in large rivers
 - Literature review of existing mussel response metrics
 - Producing a guidance document for best management practices for incorporating mussel features into HREPs to IPDs.



Initial assessment of primary impacts of terminated positions

- GS-9 Computer Scientist (Geospatial)
 - Was assisting LTRM data manager with
 - modernizing and updating data collection applications
 - Updating the WQ fixed site data tool
 - Modernizing the LTRM web applications to be more mobile friendly and better display 30+ years of long term data.



Upper Mississippi River Restoration Program



The Upper Mississippi River restoration is underway and more will follow because of the Upper Mississippi River Restoration Program (UMRR).

UMRR is a partnership of states, tribes, and non-governmental organizations that is working to restore the health and naturalness of the Upper Mississippi River. The program is guided by the following principles:

- Restoring ecological, economic, and social integrity in large river management;
- Utilizing a long perspective of time as well as habitat, groundwater, ecosystems, and communities;
- Encouraging a variety of uses and interests through the Upper Mississippi River System;
- Utilizing science, pilot projects, and monitoring to evaluate progress;
- Engaging communities and partners in decision making.




Upper Mississippi River Restoration Program

