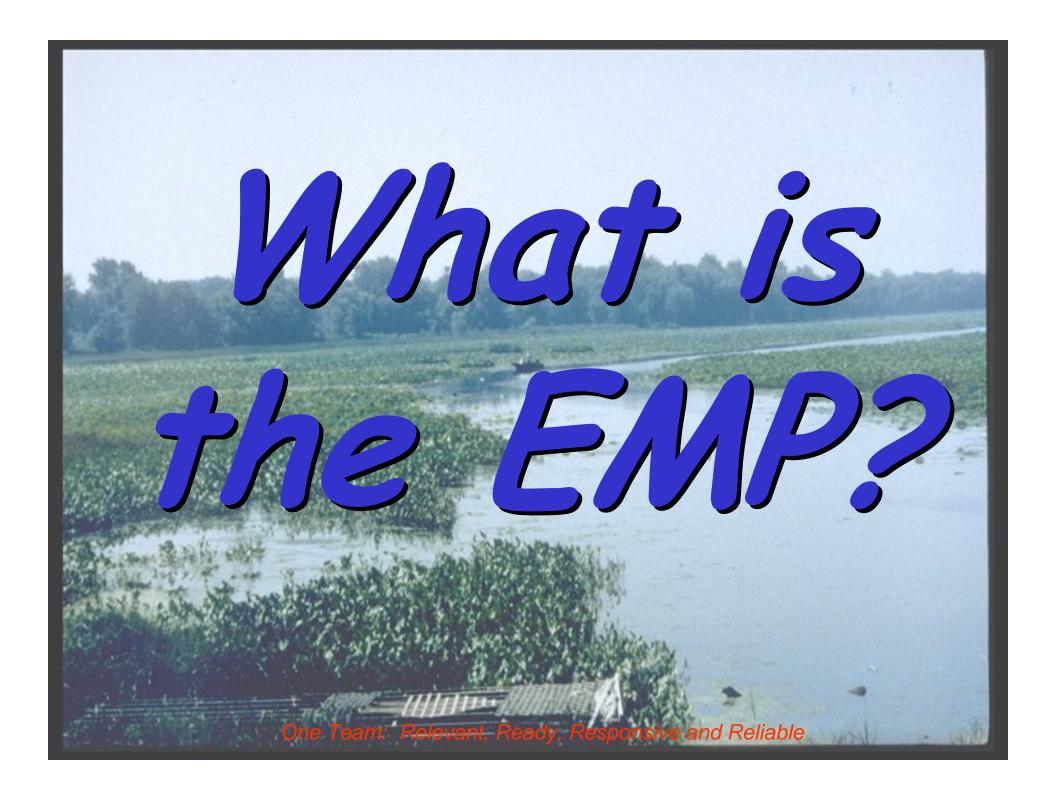


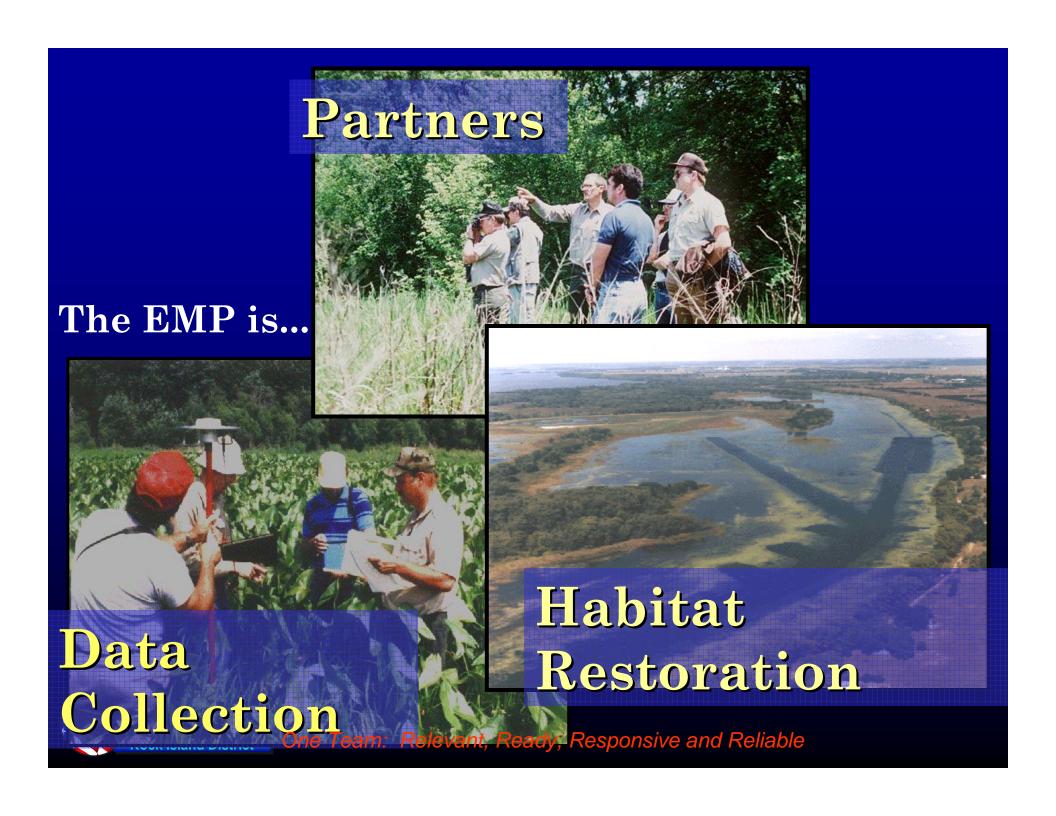
The Upper Mississippi River System Environmental Management Program (UMRS-EMP) is a Federal-State partnership to restore and monitor the natural resources the river system. (The Upper Mississippi River Management Act of 1986 (P.L. 99-662))





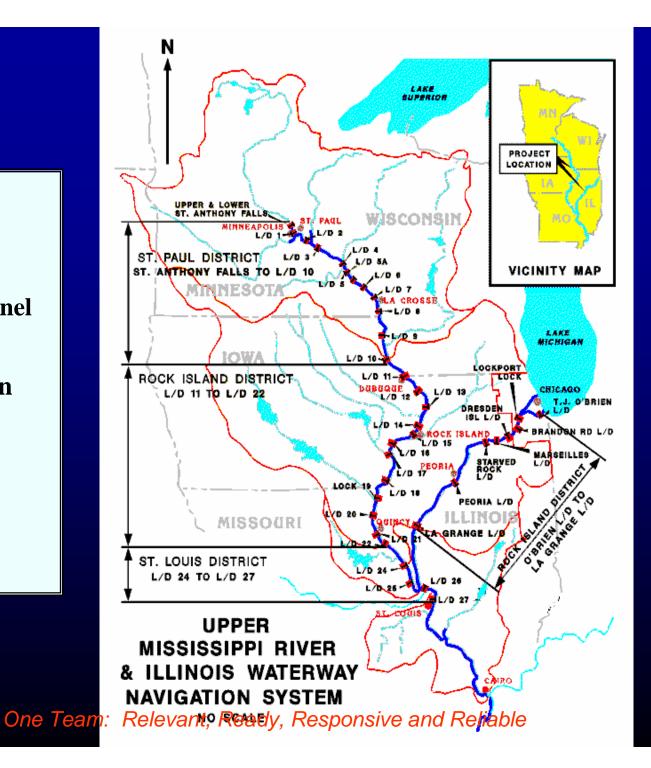






System

- 1200 Miles of Navigable Channel
- 37 Navigation Lock and Dam Sites





COLLABORATION









Corporations

















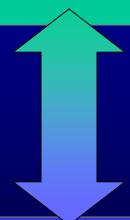
NGO's

INFORMATION

Monitoring & Analysis

LTRMP

The EMP



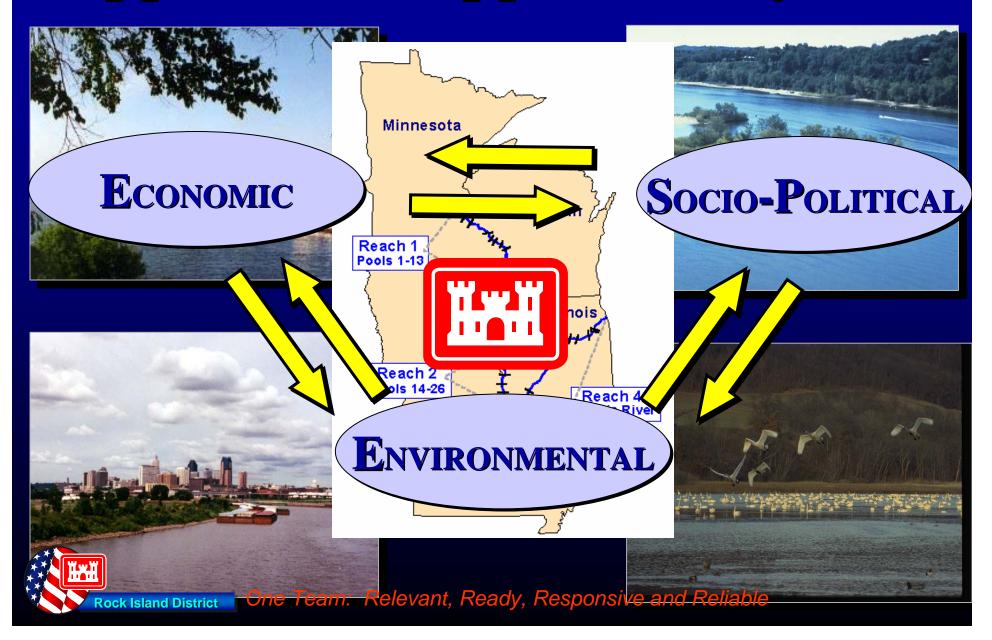
ACTION

Habitat Protection & Restoration





Upper Mississippi River System



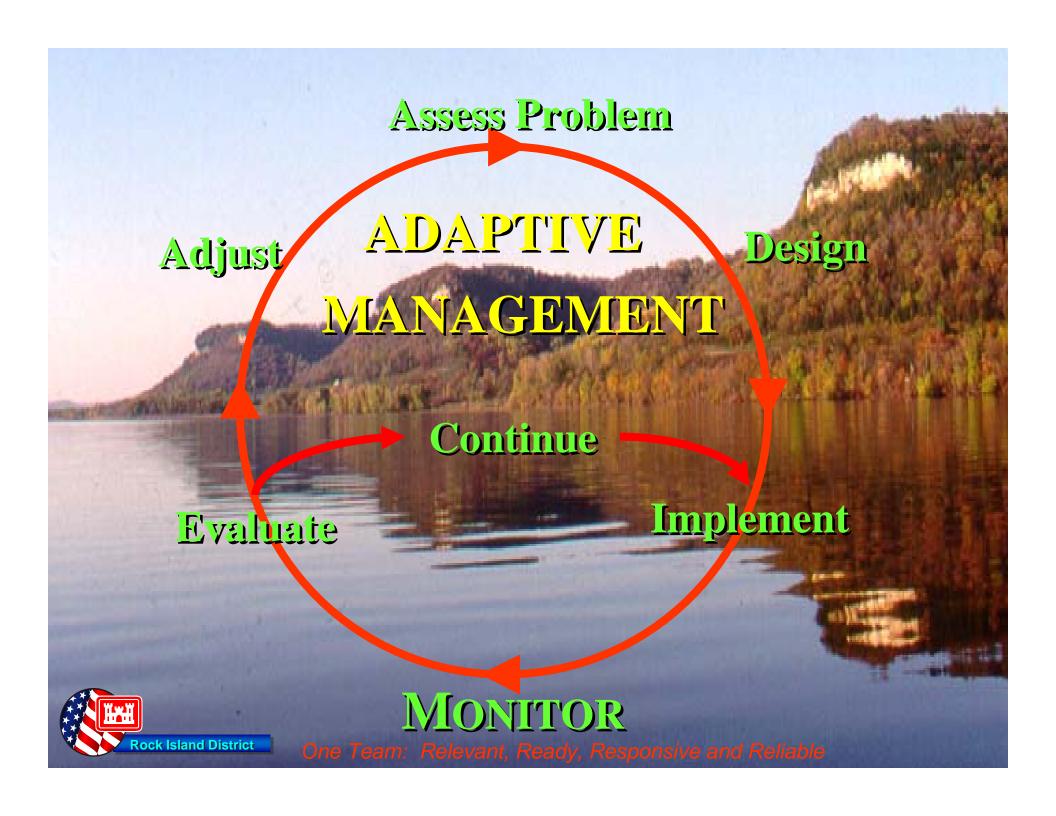
EMP GOALS AND OBJECTIVES

Restoration, protection, and enhancement of critical aquatic, wetland, and floodplain habitat types throughout the UNRS.

Systemic resource monitoring, data analysis, and applied research resulting in an increased understanding of both the regulated and open reaches of the UMRS.

Improved <u>communications</u> and expanded <u>partnership</u> among the many UMRS management agencies, interest groups, and the general public.

A <u>model</u> program applicable to other river systems and water resources.







LTRMP VISION

"To provide resource managers and decision makers with information necessary to maintain the UMRS as a sustainable multi-use large river ecosystem"



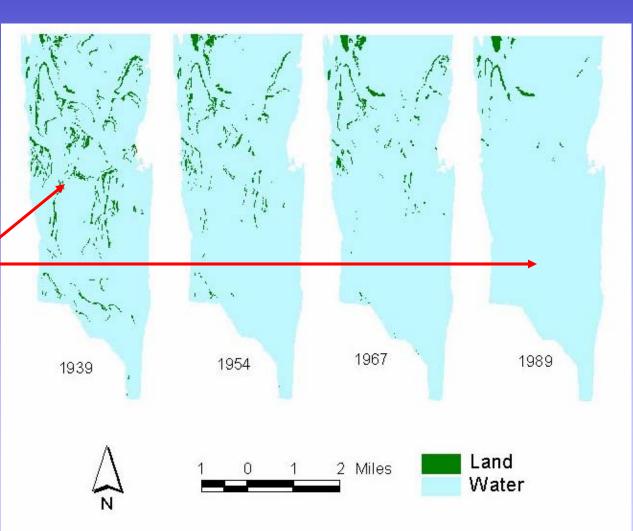
LTRMP ACCOMPLISHMENTS

- Network of 6 field stations in 5 states
- Standardized monitoring data for:
 - Water quality
 - Fish
 - Aquatic Vegetation
 - Macroinvertebrates *
- Land use Land cover UMR for 1975, 1989, & 2000
- Network helps monitor exotic species
- State of the Art GIS capability
- Management of a systemic database system + 2,000,000 records
- Leader in distributing data via the Web
- Status and Trend Reports for the UMRS 1999 and 2006
- Used as a starting point for others developing monitoring programs
- More than 350 reports and manuscripts since 1987
- Modeling to support HREP's forest restoration, over wintering,
 biological response, and sedimentation

Environmental Issues

Example - Habitat loss in lower Pool 8

Note loss of island habitat in lower Pool 3 since impoundment





Island Protection and Restoration

Pool 8 Islands HREP Phase II, near Stoddard, Wisconsin



October 1961

August 1994

August 2000



INFORMATION

Monitoring & Analysis

LTRMP

HNA

The EMP

ACTION

Habitat Protection & Restoration





HABITAT NEEDS ASSESSMENT FOR THE

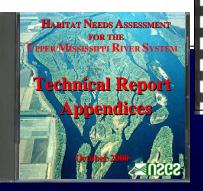
HNA PRODUCTS

UPPER MISSISSIPPI RIV

Technical Re

October 2000





Habitat Needs Assessment GIS Query Tool

User's Manua

BETA I



The

April 2000

PUBLIC INVOLVEMENT ASPECTS O MISSISSIPPI RIVER SYSTEM ENVIL MANAGEMENT PROGRAM HABITA ASSESSMENT

Final

October 2000

Views, opinion, and/or findings contained in this report are those of the au official Department of the Army position, policy, or decision unless so der

Planning and Management Consultan



Upper Mississippi River System















HABITAT REHABILITATION AND ENHANCEMENT PROJECTS (HREP)

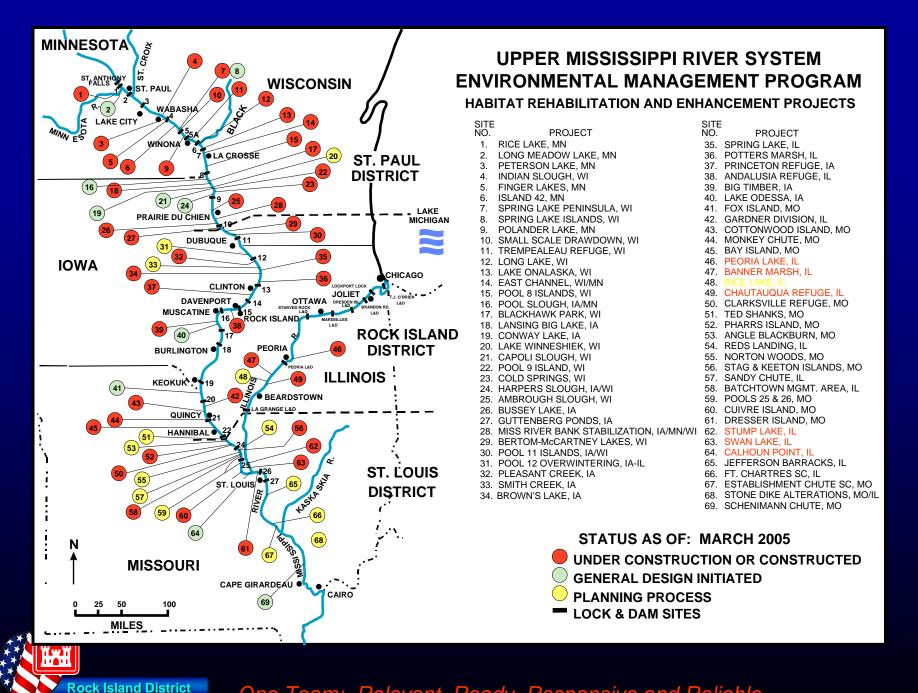
Increase habitat diversity (wetland, aquatic, and benthic)

Provide off-channel over wintering and spawning habitat

Provide reliable floodplain wetlands and associated food resources

Create additional shelter zones and nesting sites

Increase numbers of mast producing trees



SUIMIMARY 1988 - 2005

41 projects nearly complete or completed 71,000 acres of habitat

7 projects under construction

11,500+ acres of habitat

21 projects in design

43,000++ acres of habitat

69 Projects Total Acres: 125,000+

Per project range of investment: \$56,000 - \$13 million+ (majority of projects completed to date: \$1-4 million range)



EMP Illinois River Summary

- 5 projects completed
 29,600 acres of habitat benefited
- 1 project under construction 2,300 acres of habitat benefited
- 1 project in design
 5,600 acres of habitat benefited

7 Projects:

Total Est. Cost: \$61,648,000

Total Acres: 37,500 ac.



Peoria Lake, IL HREP

• Forested wetland unit (160+ acres)

Barrier island (5,000+ feet)

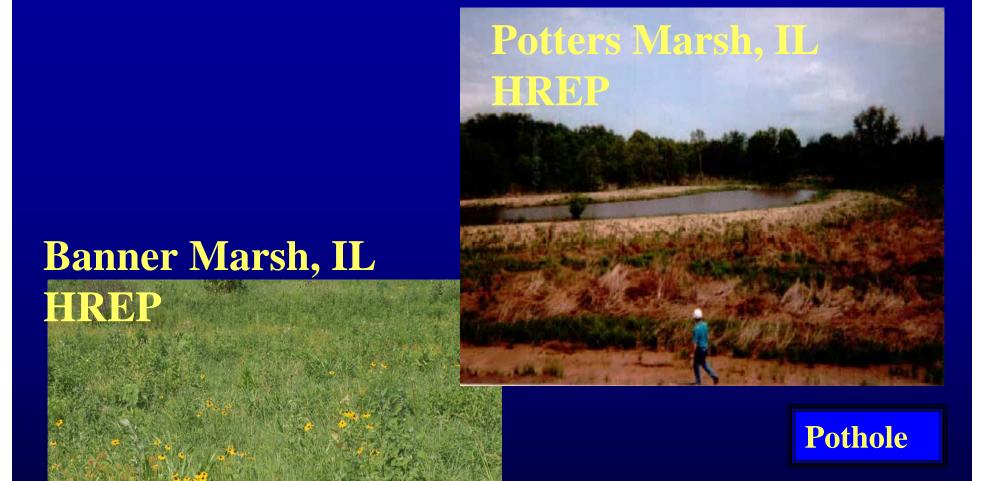
Side channel excavation (3,500 ft)

Rock closure structure

Tree plantings







Prairie Planting

One Team: Relevant, Ready, Responsive and Reliable

Rock Island District

Lake Chautauqua (LaGrange Pool)

- Moist Soil Management Units
- Perimeter Levee Restoration
- Pumping Facilities
- Water level Control
- Backwater Excavation
- Partners: F&WS and Illinois DNR



Swan Lake (Pool 26/Illinois) Moist Soil Unit Drawdo



Environmental Management Program



