Presentation Objectives

• **Background**
  - Plan Authorization
  - Plan Purpose

• **Planning**
  - Contributors
  - Work Plan

• **Modeling / Assessment Tools**
  - Natural Resources
  - Social, Cultural and Economic Resources (SCE)
Background
Draft Purpose Statement

The purpose of the Missouri River Ecosystem Restoration Plan (MRERP) is to determine actions required to:

- Mitigate losses of aquatic and terrestrial habitat,
- Recover federally listed species under the Endangered Species Act, and
- Restore the ecosystem to prevent further decline among other native species

This purpose is intended to be broad enough to allow consideration of all reasonable alternatives required by the study authorization. The alternatives should be judged in part by their ability to be accomplished in harmony with the congressionally authorized purposes of the mainstem of the Missouri River, other relevant authorized purposes, cultural resource values, and social economic needs for current and future generations by engaging the public and in consultation with Tribes, states, other federal agencies, and the Missouri River Recovery Implementation Committee (MRRIC).
Plan Scope

- Long-term, large scale study
- Mainstem and tributaries
- Planning for 50 years into the future
Missouri River Ecosystem Restoration Plan and EIS

MRERP Contributors

Lead Agencies
US Army Corps of Engineers
US Fish and Wildlife Service

Cooperating Agencies
Missouri River Recovery Implementation Committee (MRRIC)
Tribes
Public

One River • One Vision
### Missouri River Ecosystem Restoration Plan and EIS

#### Plan Steps

<table>
<thead>
<tr>
<th>Phase Three</th>
<th>Phase Four</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Consider Alternatives</strong></td>
<td><strong>Select The Plan</strong></td>
</tr>
<tr>
<td><strong>Five</strong></td>
<td><strong>Seven</strong></td>
</tr>
<tr>
<td>Formulate Restoration and Adaptive Management Alternatives</td>
<td>Consider Preferred Alternatives</td>
</tr>
<tr>
<td><strong>Six</strong></td>
<td><strong>Eight</strong></td>
</tr>
<tr>
<td>Compare Impacts of Alternatives</td>
<td>Develop Draft MRERP-EIS</td>
</tr>
<tr>
<td><strong>Seven</strong></td>
<td><strong>Nine</strong></td>
</tr>
<tr>
<td><strong>Eight</strong></td>
<td><strong>Ten</strong></td>
</tr>
<tr>
<td>Develop Final MRERP-EIS</td>
<td>Publish Record of Decision</td>
</tr>
</tbody>
</table>

#### PRODUCTS

**Redefine Goals**
- Activities, deliverables, and products from MRERP

**Define Objectives & Management Measures**
- Physical Resource Impacts

**Define Alternative Plans**
- SCE Impact Analysis
- Cumulative Impacts
- Cost Assessment

**Preferred Alternatives Description**
- Draft MRERP-EIS

**Plan Implementation Strategy**
- Response Comments Package

**Record of Decision**
- Final MRERP-EIS

#### Timeline

<table>
<thead>
<tr>
<th>2012 – 2018</th>
<th>2018 – 2020</th>
</tr>
</thead>
</table>
Resource Modeling & Assessment
Missouri River Ecosystem Restoration Plan and EIS

Missouri River Study Segments

Upper Great Plains Ecosystem
Rocky Mountain Foothills Ecosystem
Middle Great Plains Ecosystem
Lower Great Plains Ecosystem
Central Lowlands Ecosystem

Focal Natural Resources
- Rocky Mountain Foothills Ecosystem
- Upper Great Plains Ecosystem
- Middle Great Plains Ecosystem
- Lower Great Plains Ecosystem
- Central Lowlands Ecosystem

One River - One Vision
Natural Resources Conceptual Model

**Driver:** indirect cause of a source

**Opportunity:** factor that potentially abates a threat

**Constraint:** limiting factor

**Source:** agent or factor driving a Stress

**Stress:** an ecological alteration that impairs a Key Attribute

**Key Attribute:** critical sustaining feature of a focal natural resource

**Focal Natural Resource:** a species, community or ecosystem type present in the affected environment

**Indicator**
Social, Cultural, and Economic Resources Conceptual Model

- Positive
- Neutral
- Negative

Source → Impact → SCE Attribute → Principal SCE Resource

Indicator
The Interaction Assessment (step 5)
Next Steps

• Phase II (Study the Affected Environment)
  – Complete Baseline Assessments
  – Complete Future Without Project conditions assessment
  – On track to be completed in 2012

• Phase III (Consider Alternatives)
  – Define objectives, management measures, and alternative plans
  – Conduct impact analyses and cost assessments
  – Scheduled for completion in 2016
Questions?

Jeffry A. Tripe
U.S. Army Corps of Engineers, Kansas City District
Environmental Resources Section, PM-PR
601 East 12th Street, Kansas City, MO  64106
Work:  816-389-2455
Jeffry.A.Tripe@usace.army.mil