

# BAY ISLAND

## HABITAT REHABILITATION AND ENHANCEMENT PROJECT

Pool 22  
Upper Mississippi River Miles  
311.0-312.0

Marion County, Missouri  
Rock Island District



### **RESOURCE PROBLEM:**

Sedimentation from high flow levels on the Mississippi River had caused the deterioration and loss of wetland habitat at this location. In the absence of a rehabilitation and enhancement project, succession of the remaining habitat from wetland to terrestrial would progress to the detriment of waterfowl, eagles, shorebirds, furbearers, and other wildlife species.

### **PROJECT FEATURES:**

- \* 2-year flood protection levees enclose over 400 acres of forested wetlands. The levees form two separate but conjoined wetland management units;
- \* Three stoplog structures and an electric pumping station allow water levels to be managed within the units; and
- \* 30 acres of mast tree plantings within the management units.

### **PROJECT OUTPUTS:**

The use of selected interior areas to supply levee material resulted in the creation of additional wetlands. Water level management during critical times of the year at this location provides valuable resting and feeding habitat for migratory waterfowl and wintering bald eagles. Shorebirds, furbearers, and other wildlife species also benefit from this restoration of prime wetland habitat. Planting of mast tree species has provided important food resources for wood ducks and added diversity to the bottomland hardwood forest currently existing in the area.

### **FINANCIAL DATA:**

General design costs were \$721,000, and construction costs, were \$2,305,000. Annual costs for operation, maintenance, and repair are estimated at \$9,400 and will be the responsibility of the non-Federal project sponsor, the Missouri Department of Conservation.

### **STATUS:**

Project construction was completed in November 1994. A contract to minimize operation and maintenance was completed in August 2001. Project monitoring and performance evaluation continue and are reported on a yearly basis. A performance evaluation report was completed in 2003.