



US Army Corps of Engineers  
St. Paul District

## Bussey Lake Habitat Project, Guttenberg, Iowa

### Location/Description

Bussey Lake is a 213-acre backwater lake on the Iowa side of the Mississippi River, about 2 miles above lock and dam 10 at Guttenberg, Iowa. The site is in the Upper Mississippi River National Wildlife and Fish Refuge.



Bussey Lake supports an excellent fishery, but sedimentation from the Buck Creek watershed and the main channel reduced water depths in the lake, which increased the growth of emergent aquatic plants and accelerated eutrophication. If allowed to continue, the sedimentation problem would have continued to degrade the lake and cause eventual loss of the lake fishery.

Stage 1 of the project included dredging 12,000 linear feet of channels in the lake. One half the dredged material was placed at the Guttenberg Waterfowl Ponds project to create an additional moist soil unit and improve operability of the existing ponds. The rest was placed at the Willow Island placement site just downstream of Bussey Lake.

Stage 2 installed a gate on an existing culvert to control flow from Buck Creek into the north end of Bussey Lake. Deepening 29 acres of Bussey Lake expanded available fish habitat, and the gated structure reduced sediment transport into the lake. The project provides 15 acres of managed habitat and 35 acres of enhanced habitat at the waterfowl ponds and 10 acres of island habitat at Willow Island.



### Status

The Stage 1A construction was completed in October 1994. The Stage 1B contract was completed in June 1996. The Stage 2 contract was completed in November 1995. The project has been transferred to the U.S. Fish and Wildlife Service for operation and maintenance.

### Authority

The Bussey Lake Habitat Project was planned under the authority of the Upper Mississippi River System - Environmental Management Program and constructed in accordance with a definite project report dated August 1990. The Environmental Management Program was authorized by Section 1103 of the Water Resources Development Act of 1986 and reauthorized by the Water Resources Development Act of 1999.

The project was a cooperative effort of the U.S. Army Corps of Engineers, the Iowa and Wisconsin Departments of Natural Resources, the U.S. Fish and Wildlife Service, and local interests.

### Fiscal

Most of the project design and construction costs were 100 percent Federal because most of the project is in a national wildlife refuge. Operation and maintenance costs for the features on the refuge are 100 percent Federal (a responsibility of the U.S. Fish and Wildlife Service). The Buck Creek gate installation and Willow Island placement

site are not located on the refuge; these construction costs were shared 75 percent Federal/25 percent non-Federal. The non Federal sponsor was the Iowa Department of Natural Resources, which is responsible for operation and maintenance costs of these features.

Federal cost \$3,432,000  
Non-federal cost \$162,000  
Total cost \$3,594,000

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