Project Status
Approved Date: 1991  Project Area: 13,000 acres
Approved Funds: $1.60 M  Total Est. Cost: $1.60 M
Net Benefit After 20 Years: 5,542 acres
Status: Completed March 1995
Project Type: Shoreline Protection
PPL #: 1

Location
This project is located in the center of the Sabine National Wildlife Refuge, approximately 10 miles southwest of Hackberry in Cameron Parish, Louisiana. It is bordered to the north by Starks North Canal, to the east by Beach Canal, to the south by Starks Central Canal, and to the west by the Burton-Sutton Canal.

Problems
Pool 3 is a 27,000-acre freshwater marsh pool on the refuge that is hydrologically isolated and surrounded by tidally influenced brackish canals.

Because of the continual erosion created by boat traffic and weathering, the levee protecting Pool 3 from higher salinity water was in danger of breaching along the Burton-Sutton Canal.

Restoration Strategy
A 5.5 mile-long, continuous, free-standing rock dike was built along the east bank of the Burton-Sutton Canal and forms the western boundary of Pool 3.

Progress to Date
The project's effectiveness is being evaluated by shoreline movement surveys and by using a series of pre-construction and post-construction aerial photographs to evaluate changes in land-to-water ratios.

Shoreline survey results following the project's completion have shown that distances from survey markers to the edge of bank vegetation differed by less than 7.7 feet at any one station for both the project and reference areas. Between 1995 and 2000, shoreline advance was detected at almost all project stations and at four of the five reference stations.

Mean shoreline advance rates were effectively equal: 1.3 feet per year for the project area and 0.9 feet per year for the reference sites.

Observations at the project site and data collected during the shoreline surveys demonstrate that the integrity of the west bank of Pool 3 has been maintained. The project has also been effective in preventing saltwater intrusion into Pool 3.

The levee appears to be stable, and the rock dike seems to be in good condition at this time. Future inspections of the project area will be conducted at regular intervals to document the condition of the rock breakwater and any required maintenance.

This project is on Priority Project List 1.

For more project information, please contact:

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U.S. Fish and Wildlife Service
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Local Sponsor:
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