Connecting Coastal Waters: Hydrologic Restoration in the Northern Gulf of Mexico

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Restore America's Estuaries
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Hydrologic Restoration - What, Why

- Undersized Culverts
  - Photo Credit: Seattle Conservation Department

- Navigation Infrastructure
  - Photo Credit: FWS

- Outdated Flood Infrastructure
  - Photo Credit: Orleans Levee District

- Low Water Crossings
  - Photo Credit: Texas Sea Grant
Hydrologic Restoration—What, Why

Comparison between the Bay and North Old Town Lake tides

Courtesy of Rusty Feagin and Thomas Huff
Bahia Grande, Texas

Photo Credit: NOAA

Photo Credit: NOAA
NOAA-Gulf SeaGrant Partnership

Community Based Partnership
On the Ground Restoration
Hydrologic Restoration Opportunity Inventory
Monitoring Protocols
Outreach Materials
NOAA -Gulf Sea Grant Partnership

Bayou St. John, LA

Acres Restored: 186
Cost per Acre: $1,110
Total Budget for the Restoration: $206,390

Photo Credit: Albert Guade
NOAA - Gulf Sea Grant Partnership

Restoration of Salinity Patterns Upper Apalachicola Bay through Reconnection of Severed Historic Watershed Drainage Pathways, FL

Acres Restored: 2,374
Cost per Acre: $137
Total Budget for the Restoration: $324,306

Photo Credit: Linda Chaisson
NOAA - Gulf Sea Grant Partnership

Salinity Barrier Removal Feasibility & Restoration in Tampa Bay Tidal Tributaries, FL

Acres Restored: 58
Cost per Acre: $8,600 (based on total restoration footprint and all partner contributions)
Total Budget for the Restoration: $496,500

Photo Credit: Brad Young
Acres Restored: 770
Cost per Acre: About $530
Total Budget for the Restoration: $408,831
NOAA - Gulf Sea Grant Partnership

Hydrologic Restoration Inventory GOM

http://masgc.org/hydrorestoration
NOAA - Gulf Sea Grant Partnership

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Connecting Coastal Waters

On the Ground Restoration
Watershed Based Inventory
Connecting Coastal Waters
Connecting Coastal Waters
Bahia Grande Wetland System Restoration

600 acres restored by reconnecting freshwater hydrology blocked by highway
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Marsh Restoration in Fish River, Weeks Bay, Oyster Bay & Meadows Tract

Restore 470 acres at three sites via culvert replacement, reconnection of dead end canals and restoration of tidal exchange.
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Money Bayou Wetlands Restoration

Restore at least 1,000 acres of estuarine habitat by re-establishing sheet flow, culvert replacement, low water crossings and road grading
Restore 140 acres by re-establishing tidal flows. Will expand existing preserve.
- Northwest Florida Water Management District
- Florida Forest Service
- Tampa Bay Estuary Program
- Ecosphere Restoration Institute
- MacDill Air Force Base
- Southwest Florida Water Maintenance District
- State of Florida
- Alabama Department of Conservation and Natural Resources
- U.S. Fish and Wildlife Service
- Texas Parks and Wildlife Department
- Ducks Unlimited
- Calhoun County, Texas
- Texas A&M AgriLife Research

- Louisiana Department of Wildlife and Fisheries
- Louisiana Sea Grant
- Orleans Levee District
- Lake Pontchartrain Basin Foundation
- United States Geological Survey (USGS)
- New Orleans City Council
- Louisiana Sea Grant
- Faubourg St. John Neighborhood Association
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