

# Restoring Long Island Sound's Habitats

2002

## RESTORATION SITES

BLUE INDICATES COMPLETED SITE - CONSTRUCTION ON THE PROJECT IS FINISHED, BUT MONITORING MAY BE ON-GOING  
 GREEN INDICATES IN PROGRESS SITE - SOME PHASE OF THE PROJECT IS UNDERWAY, E.G. APPLYING FOR FUNDING, DESIGN, OR CONSTRUCTION  
 BLACK INDICATES POTENTIAL SITE - A RESTORATION PROJECT HAS BEEN IDENTIFIED, NO ACTION TAKEN YET  
 BOLDFACE IN ALL COLORS INDICATES HIGH-RANKED SITES

### CONNECTICUT

- BRANFORD**  
 Branford River STP (TW)  
 Branford R./Christopher Rd. (TW)  
 Branford R./St. Agnes Cemetery (TW)  
 Branford R./Hickory Rd. (TW)  
 Branford R. tributary/Mill Creek (TW)  
 Farm River (TW)  
 Farm R. tributary/Pent Rd. (TW)  
 Farm R. tributary/Cynthia Ct. (TW)  
 Flying Point/Prospect Hill Rd. (TW)  
 Juniper Point (TW)  
 Lindsey Cove east (TW)  
 Lindsey Cove west/Castle Rock (TW)  
 Pages Cove north (Short Beach) (TW)  
 Pages Cove (Kilian's Point) (TW)  
 Pine Orchard golf course (TW)  
 Sybil Creek (TW)  
 Tabor Drive Marsh (TW)  
 Three Elms Rd. (TW)  
 Ticon Wetland (TW)  
 Ward's Millpond/Branford River W.M.A. (RMC/FW)  
 West Point Road (TW)
- BRIDGEPORT**  
 Ash Creek/Rooster River (TW)  
 Bunnells Pond (RMC)  
 Grover Hill (TW)  
 Pleasure Beach (BD)  
 Yellow Mill Channel to Stillman Pond (RMC)
- CHESTER**  
 Carini Preserve (RMC)
- CLINTON**  
 Chapman's Pond Dam (RMC)  
 Clinton Harbor (SAV/SR/TW)  
 Hammock River (TW)  
 Hammonasset River tributary (TW)  
 Indian River (TW)  
 Indian River south of RR track (TW)  
 Upper Mill Pond Dam (RMC)
- CROMWELL**  
 Cromwell Meadows (RMC)
- DARIEN**  
 Five Mile River Marsh (TW)  
 Goshams Pond (EE/RMC)  
 Holly Pond (RMC/EE)  
 Noroton River at I-95 (RMC)  
 North Scott Cove-Arrowhead Way (TW/EE)
- DEEP RIVER**  
 Plano Works Dams (RMC)  
 Pratt Cove (TW)
- EAST HADDAM**  
 Chapman Pond (TW)  
 Salmon River (RMC)
- EAST HAVEN**  
 Caroline Creek between Minor and Stanton Rds. (TW)  
 Caroline Creek/Cosley Beach (TW)
- FARM RIVER (TW)**  
 Farm River tributary/Edgemere Rd. (TW)  
 Morris Creek/Sibley Lane (TW)  
 New Haven Airport (TW)
- EAST LYME**  
 Brides Brook Culvert (RMC/TW)  
 Crescent Park/Manwaring Rd. (TW)  
 Fourmile River Dam (RMC)  
 Indian Pond (EE)  
 National Guard camp (TW)  
 Old Black Point Spit (BD/F)  
 Upper Pattaquansett River (TW)  
 Niantic River (SAV)
- EAST WINDSOR/ENFIELD**  
 Scatict River (RMC)
- ESSEX**  
 Denison Pond Dam (RMC)  
 Great Meadows (TW)  
 Thatchbed Island (TW)
- FAIRFIELD**  
 Ash Creek, Rooster River (TW)  
 Lower Ash Creek/Kenard St. (TW)  
 Fairfield Creek/Grassene (TW)  
 Mill River/Samp Mortar Lake Dam (RMC)  
 Mill River/Tide Mill Dam (RMC)  
 Penfield and Beach Roads (FW)  
 Penfield Reef (SR)  
 Perrys Millpond (TW)  
 Pine Creek East (TW)  
 Sasco Brook Dam (RMC)  
 South Pine Creek/Par 3 golf course (TW)  
 West of marina/Turney Road (TW)
- HADDAM**  
 Higginum Creek (RMC)  
 Ruddy Creek (TW)  
 Salmon River (RMC)
- HAMDEN**  
 Quinipiac River marshes (TW)  
 West bank of Mill River (RMC/FW)
- GROTON**  
 Birch Plain Creek (TW)  
 Bluff Point Natural Area Preserve (F)  
 Bluff Point Coastal Reserve (TW)  
 Bluff/Bushy Point Beach (BD)  
 Haley Farm (G)  
 Hyde Pond Dam (RMC)  
 Mumford Cove (BD)  
 Mystic River (SAV)  
 Noyes Property (TW)  
 Spencer Point (TW)  
 Willow Point (TW)
- GUILFORD**  
 East River (TW)  
 Grass Island (TW)  
 Landon Dam (RMC)  
 Leetes Island (TW)  
 Lost Lake (TW)  
 Hammonasset S.P./Filled wetland (TW)  
 Kesley Place (TW)  
 Neck River/Garnet Park Rd. (TW)  
 Neck R. tributary (TW)  
 Vineyard Haven (TW)  
 Windy Brook Lane (TW)  
 Upper West River (TW)
- MADISON**  
 Bailey Creek (TW)  
 Fence Creek (TW)  
 Seaview Beach (TW/BD)  
 Hammonasset River north (TW)  
 Hammonasset S.P./Tom's Creek (TW)  
 Wheeler Marsh (TW)  
 West of sand and gravel company (TW)  
 Neck R. tributary (TW)  
 Seiden Neck (TW)  
 Windy Brook Lane (TW)  
 Windy Brook Lane/east of golf course (TW)
- MERIDEN**  
 Hanover Pond Dam (RMC)
- MIDDLETOWN**  
 Lower Mill Pond Dam (RMC)  
 Savage Mill Dam (RMC)  
 Starr Millpond/Coginchaug River (RMC)
- MILFORD**  
 Beaver Brook (TW/FW)  
 Calf Pen Meadow Creek (TW)  
 Charles Island (F)  
 Clark Pond Dam (RMC)  
 Dredge mining sites (RMC)  
 Fowler Island (TW)  
 Great Creek Marsh (TW)  
 Great Flat (TW)  
 Hilldale Road area (TW)  
 Howard Ct./Morehouse Ave. (TW)  
 Indian River between I-95 and railroad track (TW)  
 Milford Pond (BD)  
 Oyster River (TW)  
 Rogers Ave./Milford Harbor tributary (TW)  
 Seabreeze Ave./Merwin Ave. (TW)  
 Turkey Hill Brook (TW)  
 Welches Point Rd. (TW)  
 NE Wilson Cove (TW)  
 Nonwalk River/Perry Ave. flood gate (RMC)  
 Oyster Creek (TW)  
 Sheffield Island (BD)  
 Sheffield/Plains/Shea Island Complex (F)  
 Silvermine Pk./Perry & Timber ponds (RMC)  
 Village Creek (RMC/TW)
- MONTVILLE**  
 Trading Cove Brook (RMC)
- NAUGATUCK**  
 Union City Dam (RMC)
- NEW HAVEN**  
 Hemingway Creek (TW)  
 Long Wharf Flats (F)  
 Mill River east bank/south of RR tracks (TW)  
 Morris Creek/Lighthouse Pt. (TW)  
 Nathan Hale Park/Forbes Bluff (CB)  
 New Haven Airport (TW)  
 Pond Lily Dam (RMC)  
 Quinipiac River Marsh (TW)  
 West River Salt Marsh (TW)
- NEW LONDON**  
 Mitchell College (BD)
- NORTH HAVEN**  
 Quinipiac River north (TW)  
 Quinipiac River south (TW)
- NORWALK**  
 Chimon Island (F)  
 Flock Process Dam (RMC)  
 Harborview (TW)  
 Indian River (RMC)  
 NE Wilson Cove (TW)  
 Nonwalk River/Perry Ave. flood gate (RMC)  
 Oyster Creek (TW)  
 Sheffield Island (BD)  
 Sheffield/Plains/Shea Island Complex (F)  
 Silvermine Pk./Perry & Timber ponds (RMC)  
 Village Creek (RMC/TW)
- OLD LYME**  
 Big Pond (TW)  
 Black Hall River (TW)  
 Calves Island (TW)  
 Duck River (TW)  
 Finnegan Farm Lane (TW)  
 Fourmile River Dam (RMC)  
 Goose Island (TW)  
 Great & Upper Islands (TW)  
 Griswold Point (BD)  
 Lieutenant River (TW)  
 Lord Cove (TW)  
 Lower McCollough Dam (RMC)  
 Pond Road/Soundview (TW)  
 Rogers Lake (RMC)  
 Saltworks Point (TW)  
 Upper Mill Pond Dam (RMC)  
 White Sands Beach, west (TW)
- ORANGE**  
 Housatonic River/sand & gravel pits (RMC)
- PRESTON**  
 Hallville Pond Dam (RMC)  
 Poquetanuck Cove (F/TW)  
 Route 2A bridge (TW)
- SEYMOUR**  
 Kinnetown Dam (RMC)  
 Tingle Dam (RMC)
- SHELTON**  
 Derby Dam (RMC)  
 Housatonic River/sand & gravel pits (RMC)  
 Farm Hill River (RMC)
- SPRAGUE**  
 Versailles Pond Dam (RMC)
- STAMFORD**  
 Holly Pond (RMC/EE)  
 Kosciuszko Park (TW/F)  
 Main Street Dam (RMC)  
 Noroton River at I-95 (RMC)  
 Stamford Marine Center/Magee Ave (TW)
- STONINGTON**  
 Collins Rd. Marsh (TW)  
 Little Narragansett Bay (SAV)  
 Lords Point (TW)  
 Mystic River (SAV)  
 Quimbog Cove (TW)  
 Ram Island (TW)  
 Velvet Mills (TW)
- STRATFORD**  
 Avco-Lycoming field (TW)  
 Bridgeport Airport (TW)  
 Carting/Peacock Islands (TW)  
 East Johnson Creek/north Lewis Gut mouth (TW)  
 Farm Hill River (TW)  
 Ferry Creek (TW)  
 Fresh Pond (EE)  
 Great Meadows/south of Lordship Blvd.(TW)  
 Great Meadows/north of Lordship Blvd.(TW)  
 Russian/Lordship Island (TW/G/F)  
 Sandy Point (BD)  
 Farm Hill River (TW)  
 Ferry Creek (TW)  
 Fresh Pond (EE)  
 Great Meadows/south of Lordship Blvd.(TW)  
 Lower McCollough Dam (RMC)  
 Pond Road/Soundview (TW)  
 Rogers Lake (RMC)  
 Saltworks Point (TW)  
 Upper Mill Pond Dam (RMC)  
 White Sands Beach, west (TW)
- WEST HAVEN**  
 Club Creek (TW)  
 Cove River (TW)  
 Old Field Creek (TW)  
 Oyster River/north of New Haven Ave. (TW)  
 Mount Sinal Harbor (TW/EE/F)  
 Sewage Treatment Plant wetland (TW)  
 West River (TW/RMC)
- WESTBROOK**  
 Champan Pond Dam (RMC)  
 Hammock River (TW)  
 McVeagh Dam (RMC)  
 Menunketesuck Island (BD)  
 Menunketesuck River (TW)  
 Patchogue River (TW)  
 Quotsonet Beach (TW)  
 Westbrook Town Beach (BD)
- WESTPORT**  
 Cocksnoe Island (F)  
 Greens Farm Brook (TW)  
 Grove Point/Sherwood Millpond (TW)  
 Lees Pond (RMC)  
 North of Sherwood Millpond and I-95 (TW)  
 Sasco Brook (TW)  
 Sasco Brook Dam (RMC)  
 Saugatuck River Dam (RMC)  
 Saugatuck River north of Route 1 (TW)  
 Sherwood Millpond (EE/TW)
- WATERBURY**  
 Anaconda Dam (RMC)  
 Freight Street Dam (RMC)
- WATERFORD**  
 Alewife Cove (EE/SAV)  
 Gardner Pond north (TW)  
 Goshen Cove (EE)  
 Harkness Memorial State Park (TW)  
 Jordan Millpond Dam (RMC)  
 Millers Pond Dam (RMC)  
 Niantic Bay Barrier (BD)  
 Niantic Bay northeast (TW)  
 Niantic River (SAV)  
 Quaker Hill north (TW)  
 River Street (TW)  
 White Point (TW)
- WESTPORT**  
 Cocksnoe Island (F)  
 Greens Farm Brook (TW)  
 Grove Point/Sherwood Millpond (TW)  
 Lees Pond (RMC)  
 North of Sherwood Millpond and I-95 (TW)  
 Sasco Brook (TW)  
 Sasco Brook Dam (RMC)  
 Saugatuck River Dam (RMC)  
 Saugatuck River north of Route 1 (TW)  
 Sherwood Millpond (EE/TW)
- WILTON**  
 Cannondale Dam (RMC)  
 Merwin Meadows (RMC)
- WINDSOR**  
 Rainbow Dam (RMC)
- MOUNT VERNON**  
 Glover Field (FW)  
 Beaver Swamp Brook/Cowperwood site (FW)  
 Blind Brook (FW)  
 Edith G. Read Wildlife Sanctuary (TW/F/EE/FW)  
 Marshlands Conservancy (TW/F/F)
- NEW ROCHELLE**  
 Echo Bay (TW/SR/F/R)  
 Former Dickerman's Pond (FW)  
 Nature Study Woods (F/FW)  
 Pryer Manor Marsh (TW)
- NORTH HEMPSTEAD**  
 Baxter Estates Pond (FW)  
 Hempstead Harbor (EE/F/TW)  
 Lake Success (FW)  
 Lead's Pond (FW)  
 Manhasset Bay (EE/TW/F)  
 Mitchell Creek (TW)  
 Mott's Cove (TW)  
 Sheets Creek (TW)  
 Whitney Pond Park (FW)
- OYSTER BAY**  
 Bayville Wetland #B-7 (TW/FW)  
 Beaver Brook/Sau Swamp (FW)  
 Beaver Lake (FW)  
 Beekman Beach (BD/TW/F/SAV)  
 Centre Island Beach (BD/TW)  
 Cold Spring Ponds (Huntington Wetland #H-1) (TW/F/SAV)  
 Turtle Cove (TW)  
 Weir Creek (TW)  
 Westchester Creek (TW)
- BROOKHAVEN**  
 Aunt Amy's Creek (FW/TW)  
 Pugsley Creek (TW)  
 Rice Stadum Wetlands (TW/G/F)  
 Seton Falls Park (FW/F/CE)  
 Soundview Park (TW)  
 Turtle Cove (TW)  
 Weir Creek (TW)  
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- BRONX**  
 Bronx Oyster Reefs (SR)  
 Bronx River mouth (TW/F/RMC)  
 Bronx River Trailway (TW/FW/RMC)  
 City Island Marsh (TW)  
 Eastchester Bay (TW)  
 Ferry Point Park (G/BD)  
 Ferry Point Park Shoreline (TW)  
 Hutchinson River/DDOT property (TW)  
 Oak Point Freightyards (TW/F/Fisheries habitat)  
 Palmer Inlet (TW)  
 Pelham Bay Park Lagoon (TW/F)  
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# Restoring Long Island Sound's Habitats

## WHO ARE THE PARTNERS INVOLVED?

- US Environmental Protection Agency
- US Fish and Wildlife Service
- US Army Corps of Engineers
- NOAA National Marine Fisheries Service
- USDA Natural Resources Conservation Service
- Connecticut Department of Environmental Protection
- Connecticut Sea Grant
- New York State Department of Environmental Conservation
- New York Department of State
- New York Sea Grant
- New York City Department of Environmental Protection
- New York City Department of Parks and Recreation
- Audubon New York
- Save the Sound, Inc.

A partnership of concerned agencies and organizations working together to improve the Sound for the living resources that depend on it.

## WHY ARE WE CONCERNED ABOUT LONG ISLAND SOUND'S HABITATS?

The coastal habitats of Long Island Sound form a unique and highly productive ecosystem that supports a diverse array of living resources. These living resources range from microscopic plants and animals that drift with the currents to economically important finfish, shellfish, and crustaceans. Other animals such as birds, sea turtles, and marine mammals spend all or part of their lives in the Sound, on its shores, or in its watershed. While there is still healthy habitat in and around Long Island Sound, there is little doubt that the overall abundance and diversity of habitats have been diminished by incompatible human uses of the Sound and its resources.



Present-day habitat conditions are very different from those observed by the first colonists. One third of all tidal wetlands in the Sound have been lost since the 1700s. Most of the remaining tidal wetlands have been altered by mosquito ditching. Once plentiful, eelgrass beds disappeared from the western and central portions of the Sound in the 1930s. Terrestrial habitats have been lost by clearing and filling for development. For example, 70 percent of Connecticut's original forested area was clear cut by the late 1800s. In the nearly 400 years since European settlers arrived, the radical alteration of the landscape has played a role in the decline of the Sound.

In the latter half of the twentieth century, scientists began to study the link between healthy habitat and healthy populations of fish and wildlife. Not only do we need adequate acreage of habitats, but those habitats must be healthy and functioning properly to support a diverse and resilient population of the Sound's living resources. To address these concerns, the Long Island Sound Study Habitat Restoration Initiative was created.

## HOW DOES THE LONG ISLAND SOUND STUDY HABITAT RESTORATION INITIATIVE WORK?

As recommended in the Long Island Sound Study's Comprehensive Conservation and Management Plan, habitat restoration is being coordinated through the Long Island Sound Study Habitat Restoration Initiative, a partnership of concerned agencies and organizations working together to improve the Sound for the living resources that depend on it. With funding from the EPA Long Island Sound Office, the Connecticut Department of Environmental Protection and the New York State Department of Environmental Conservation are taking lead responsibility for implementing the Initiative.

The work of the Initiative is implemented by the Habitat Restoration Workgroup, a group of technical staff with expertise in habitat restoration from all of the agencies and organizations listed to the left. The following goals for habitat restoration were developed by the Habitat Restoration Workgroup and adopted by the Policy Committee of the Long Island Sound Study:

- Restore the ecological functions of degraded and lost habitats
- Restore at least 2000 acres and 100 river miles of habitats between 1998 and 2008
- Use partnerships to accomplish the restoration objectives and to leverage limited state, local, and federal funds

Workgroup partners meet several times a year to set priorities, discuss technical issues, and review work products. Each state has a habitat restoration coordinator who is funded by EPA and coordinates the activities of the Habitat Restoration Workgroup. The coordinators are also responsible for assisting partner agencies, local government and other groups with habitat restoration issues relevant to the Sound.

The Habitat Restoration Workgroup, in cooperation with the public and staff of concerned agencies, developed a database of potential restoration sites, then ranked them in order to set restoration priorities for the partners in seeking funds and undertaking projects. A map listing the potential restoration projects and their current status appears on the reverse side of this page. The projects are ranked based on ecological value, public benefit, and technical viability. The site ranking is used to help Habitat Restoration Workgroup members set funding and staffing priorities for restoration projects within the partner agencies. However, the Workgroup will assist any concerned group or local government with a restoration project, regardless of its rank.



## WHAT TYPES OF HABITAT ARE BEING RESTORED?

The Initiative has targeted twelve important habitat types in the Sound for their support of living resources and water quality. Descriptions of the habitat types are found below. The abbreviations found after the names of the habitat types are used to denote which habitat types are found at the potential restoration sites listed on the other side of this page. The abbreviations are also used in the charts that track our progress.

**BEACHES AND DUNES (BD)** are the transitional sandy or cobble shoreline area between the land and the Sound. These dynamic systems are in a constant state of erosion and deposition due to tidal action, currents, and wind. Dunes can protect adjacent low-lying properties from flooding. Many rare plants and animals, such as prickly-pear cactus, golden-aster, beach heather, piping plover, and horned lark occur on this habitat complex.

**CLIFFS AND BLUFFS (CB)** are steep coastal slopes of glacial sands and till that are created through long-term wave erosion and sea-level rise. Rare plant communities, such as New York's dwarf beech forest, may be found here.

**COASTAL AND ISLAND FORESTS (F)** located in the project area may be dominated by species such as maple, oak, cedar, pine, and beech. No virgin tracts of old growth forest remain. Animals that may use this habitat include owls, bald eagles, and osprey. Forest stands on islands are of particular importance to nesting colonial water birds, such as egrets and herons, because they are relatively free of predators. Forests provide shade and oxygen, and help influence the local climate.

**COASTAL GRASSLANDS (G)** are open glacial outwash plains dominated by tall grasses, such as little bluestem and switchgrass. They often have diverse wildflower communities as well. These areas are critical habitat for many rare and endangered species, such as the grasshopper sparrow and regal fritillary butterfly. Grasslands are also important to birds of prey like the short-eared owl.

**FRESHWATER WETLANDS (FW)** are the transitional zone between the land and fresh water. These are areas where the water table is at, or near, the surface of the soil and there is no tidal influence. They are very diverse and may be dominated by trees, such as red maple, and shrubs, such as swamp azalea, or herbs such as cattail. These wetlands aid in groundwater recharge and store flood waters. They are also critical habitat to many rare plant and animal species.

**ESTUARINE EMBAYMENTS (EE)** are confined areas of the Sound that have narrow inlets and significant freshwater inflow. They are generally more shallow than the open Sound, and the restricted flow causes greater sedimentation. These areas are important nurseries for finfish and are concentration sites for wildlife. The best bay scallop production occurs in estuarine embayments.

**INTERTIDAL FLATS (IF)** are shallow areas of bays and harbors that lay between the spring high- and low-tide marks. These flats contain no rooted vegetation. The sediments may be muddy to sandy and support important species, such as juvenile flounder, clams, and crabs.

**RIVERINE MIGRATORY CORRIDORS (RMC)** are river systems that drain to the Sound. They are often bordered by flood plain trees and wetlands. Migratory species, such as Atlantic salmon, shad, and herring use these rivers to travel to fresh waters miles away from Long Island Sound to spawn. Recreational and commercial fisheries benefit when river corridors remain healthy and passable to migratory fish.

**ROCKY INTERTIDAL ZONES (RI)** are areas of exposed bedrock characterized by attached species such as barnacles, algae, and mussels. These zones fall between extreme high- and low-tides, which results in frequent exposure of the plant and animal residents to the air. The species which attach themselves to this habitat help filter nutrients from the water, and are a food source for other marine species.

**SHELLFISH REEFS (SR)** are formed by clusters of oysters and blue mussels. The reef structure sits on top of soft sediments and provides habitat and shelter for a variety of other finfish and invertebrate species. The shellfish are able to filter algae and particulate matter in the water column thereby improving water clarity.

**SUBMERGED AQUATIC VEGETATION (SAV)** beds are comprised of rooted plants, such as eelgrass and widgeon grass, which grow on shallow bay bottoms below the spring low-tide mark. These grassy beds provide vital refuge for juvenile fish and lobsters. The plants also trap sediments and use nitrogen from the water column, thereby improving water quality.

**TIDAL WETLANDS (TW)** are the transitional zone between the land and submerged systems. These areas are dominated by rooted plants that are flooded by the tide. Healthy wetlands help trap sediments, store flood waters, and reduce wave energy during storms. In addition, two thirds of all marine species depend on tidal wetlands for a portion of their life cycle.

## HOW ARE SITES PRIORITIZED?

The Initiative partners developed ranking criteria based primarily on the potential ecological value of the degraded sites. Other factors, such as likelihood of success and public benefits of the project, are taken into consideration as well. The site ranking list is not the only criterion that determines the order in which projects are completed. Factors like available funding, local sponsors, and advanced project planning can make it much easier to complete a project, regardless of its rank. However, it is the site ranking list which helps direct the Initiative partners' efforts from year to year. The ranking criteria are listed below.

### ECOLOGICAL CRITERIA:

- Size of the site to be restored
- Benefits of the restoration to trust species
- Potential to restore ecological functions at the site
- Potential to restore a diverse plant and animal community at the site

### OTHER CRITERIA CONSIDERED INCLUDE:

- Probability of success
- Community support for project
- Cost per acre of project
- Public access opportunity and open space value of site
- Potential surface and groundwater improvements associated with project

**TRUST SPECIES** are those species that are protected or managed by law, such as endangered and threatened species, managed fisheries, and game mammals.

## HOW ARE PROJECTS FUNDED?

Project funding comes from several sources. The Initiative partners use the prioritized list of candidate restoration sites to match projects to existing grant programs. Examples of federal grant programs include the US Environmental Protection Agency's 5-Star Challenge Grant Program, the US Fish and Wildlife Service's Partners for Wildlife Program, Natural Resource Conservation Service's Wildlife Habitat Improvement Program, and National Marine Fisheries Service's Community Based Habitat Restoration Grants. Examples of state-funded programs include Connecticut's Coves and Embayments Restoration Program and the Long Island Sound License Plate Fund, and New York's Clean Water, Clean Air Bond Act and Environmental Protection Fund. Private grants from charitable institutions and the Connecticut Corporate Wetland Partnership may also be used to complete projects. In some cases, agency staff may be able to simply add the needed work to their annual schedule of activities and complete the project with little or no additional cash funds. There are nearly as many funding scenarios as there are projects to be done. It is the job of the State Habitat Restoration Coordinators and the rest of the Habitat Restoration Workgroup to help get all the projects planned and funded, and they are available to answer questions about funding.

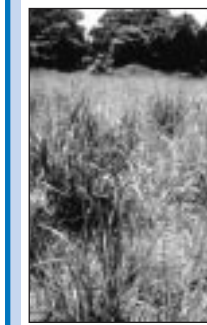


## PROGRESS TO DATE:

A great deal of progress has been made toward the habitat restoration goals since they were adopted in 1998. In May of 2000, the Initiative partner agencies signed a Memorandum of Understanding (MOU) which states that they all agree to work toward the goals of the Initiative and share the responsibility for reaching those goals. A copy of the MOU can be found on the Long Island Sound Study web site at: <http://www.epa.gov/region01/eco/lis>

## HOW DO PROJECTS GET DONE?

Each potential restoration project listed on the reverse side of this sheet represents a discrete location around Long Island Sound's shore or in the Sound's watershed. The sites represent a variety of habitat types, landowners, and varying levels of complexity. High priority projects are targeted by the state and federal agencies in the annual work planning process. The descriptions of a few projects which have been completed are summarized below. Each description will show the steps involved in restoration projects.



### GRASSLAND RESTORATION SOUTHOLD, N.Y.

**Project Description:** Orient Point County Park is owned by the Suffolk County Department of Parks and Recreation. The park displayed favorable soil conditions to restore the old agricultural fields on site to a coastal grassland community. Work on the 50-acre parcel was divided into 3 phases of about 17 acres each. During each phase, U.S. Fish and Wildlife Service staff used chainsaws and brush mowers to remove woody vegetation in the spring, then plowed and disked the soil using standard farm tractors. Once the soil was properly prepared, a specialized seed drill was used to plant a warm season grass mix. The principle species planted were little bluestem, big bluestem, indian grass, and switchgrass. Restoration work on the site was completed in 2000, but annual mowing is anticipated to continue indefinitely. The project is expected to benefit grassland nesting birds like the eastern meadowlark, raptors like the short-eared owl, and small mammals like the eastern cottontail rabbit. Migrating monarch butterflies were observed using the site in the fall of 2001.

**Partners:** US Fish and Wildlife Service (lead), Town of Southold, Suffolk County Department of Parks and Recreation, US Environmental Protection Agency (grant award), New York State Department of Environmental Conservation



### TIDAL WETLAND RESTORATION MADISON, CT

**Project Description:** During the late 1950s, a portion of the wetlands at Hammonasset State Park was used as a disposal area for sandy sediment that was dredged from nearby Clinton Harbor. Some of the filled wetland was converted to upland supporting grasses and red cedar, while part became degraded salt marsh. More recently, the invasive non-native genotype of the plant common reed (*Phragmites australis*) colonized most of the degraded wetland portions.

Restoration of approximately 5 acres of tidal wetland was accomplished through the removal of 1 to 3 feet of sandy dredged sediment. Four ponds were constructed and a network of meandering creeks was installed to provide adequate tidal flushing. A portion of the excavated sands was placed and graded on the adjacent upland and then planted with warm season grasses, such as little bluestem. The restoration work was completed in 2000. The site now supports marsh vegetation, and numerous egrets, shorebirds, and ducks are using the ponds.

**Partners:** US Fish & Wildlife Service, CT DEP Wetland Habitat and Mosquito Management, CT DEP Office of Long Island Sound Programs, EPA Long Island Sound Study and 319 Program, Ducks Unlimited, and Connecticut Waterfowlers Association.

### FRESHWATER WETLAND RESTORATION QUEENS, NY

**Project Description:** A natural glacial depression wetland in Forest Park was filled in 1966 to create two ball playing fields. The site hydrology made the ball fields prone to persistent flooding. In 2001, restoration of 6 acres of the site to freshwater wetland, and stabilization of the surrounding hillsides with native vegetation was completed.



**Partners:** New York City Department of Parks and Recreation (lead), New York State Department of Environmental Conservation (grant)

Table 1: ACRES OF HABITAT RESTORED, 1998 - 2001

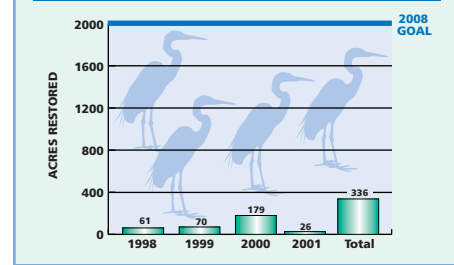
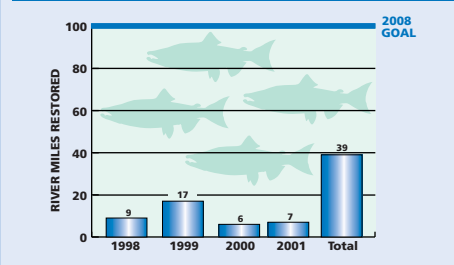


Table 2: MILES OF RIVERINE HABITAT RESTORED, 1998 - 2001



### RIVERINE MIGRATORY CORRIDOR RESTORATION LYME, CT

**Project Description:** Along the Eightmile River, a tributary to the Connecticut River, a dam was obstructing fish passage at Ed Bill's Pond. A steep pass fishway was constructed underneath a town bridge. This fishway, the second on the Eightmile River system, provides access to extensive spawning and nursery habitat for various anadromous species including Atlantic salmon, alewife, blueback herring, and sea-run brown trout.

**Partners:** CT DEP Fisheries Division (co-lead), Connecticut River Watershed Council (co-lead), USDA Natural Resources Conservation Service, Lyme Land Conservation Trust, and Connecticut Corporate Wetlands Restoration Partnership.

**ANADROMOUS FISH** are those that spend the adult phase of their lives in salt water, but move up streams and rivers to spawn in freshwater. Barriers on coastal streams and rivers prevent these fish species from reaching their natural spawning habitat and reduces their reproductive success



### TIDAL WETLAND RESTORATION OLD SAYBROOK, CT

**Project Description:** This 17-acre restoration site was first identified through a Coastal America partnership project with CT DEP and CT DOT. The investigation determined that the culvert connecting this wetland to the Oyster River was undersized and was causing a depression of the high water elevation by over one foot. CT DEP applied for Intermodal Surface Transportation Efficiency Act funds through CT DOT for design and construction. The project consisted of the installation of a second culvert (30" diameter) to complement the flows through the existing (24" diameter) culvert. A new concrete vault chamber was built to house an adjustable slide/flap gate. The gate can be manually lowered in advance of a forecast coastal flood to minimize tidal flooding of low-lying properties.

**Partners:** Funding for the project was provided by CT DOT's ISTEIA Enhancement Funds (80%) and CT DEP's Long Island Sound Cleanup Account. Partners include the Town of Old Saybrook, CT DOT, EPA Long Island Sound Study, CT DEP OLISP and Inland Water Resources Management Division, and Coastal America. The project had the support of all adjacent property owners.

### DUNE RESTORATION RYE, NY

**Project Description:** A flood protection berm created in Edith Read Sanctuary following the December 1992 nor'easter had become dominated by *Phragmites australis*. The berm was converted to a coastal dune system by the addition of clean sand and planted *Ammophila breviligulata*, and serves to enhance the educational opportunities at the site as well as to protect a newly restored adjacent marsh from wave action.

**Partners:** Westchester County Department of Planning, Westchester County Department of Parks, Recreation, and Conservation, and USDA Natural Resources Conservation Service

## WHAT CAN I DO TO HELP RESTORE LONG ISLAND SOUND'S HABITATS?

- Sponsor or support local restoration projects
- Volunteer for citizen monitoring efforts
- Sponsor or participate in clean-up projects on vacant lots, public beaches, and roadsides
- Adopt "Sound Gardening" practices - Contact New York Sea Grant at 631-727-3910 or Connecticut Sea Grant at 203-432-5188 for more information
- Support habitat restoration and protection funding through license plate funds, federal and state duck stamp programs, and tax form check-offs
- Take photos of restoration sites near you to document site conditions over time
- Talk to your neighbors about the importance of habitat restoration

## WHERE CAN I LEARN MORE ABOUT HABITAT RESTORATION AND LONG ISLAND SOUND?

Please visit these web sites:

Society for Ecological Restoration [www.ser.org/definitions.htm](http://www.ser.org/definitions.htm)

Association of State Wetland Managers [www.aswm.org/wetlinks.htm](http://www.aswm.org/wetlinks.htm)

Restore America's Estuaries [www.estuaries.org](http://www.estuaries.org)

National Marine Fisheries Service [www.nmfs.gov/habit/restoration/pspage.html](http://www.nmfs.gov/habit/restoration/pspage.html)

USDA Stream Corridor Restoration Page [www.usda.gov/stream\\_restoration/newgra.html](http://www.usda.gov/stream_restoration/newgra.html)

Save the Sound, Inc. [www.savethesound.org/mb\\_habitat.htm](http://www.savethesound.org/mb_habitat.htm)

Or contact the offices listed below:

EPA Long Island Sound Office  
Stamford Government Center  
888 Washington Blvd.  
Stamford, CT 06904-2152  
203-977-1541 in Connecticut  
631-632-9216 in New York  
[www.epa.gov/region01/eco/lis](http://www.epa.gov/region01/eco/lis)

New York State Department of Environmental Conservation  
Bureau of Marine Resources  
205 North Belle Meade Road;  
Suite 1  
East Setauket, NY 11733  
631-444-0469  
[www.dec.state.ny.us](http://www.dec.state.ny.us)

Connecticut Department of Environmental Protection  
Office of Long Island Sound Programs  
79 Elm Street  
Hartford, CT 06106-5127  
860-424-3034  
[www.dep.state.ct.us](http://www.dep.state.ct.us)

