



Habitat Protection

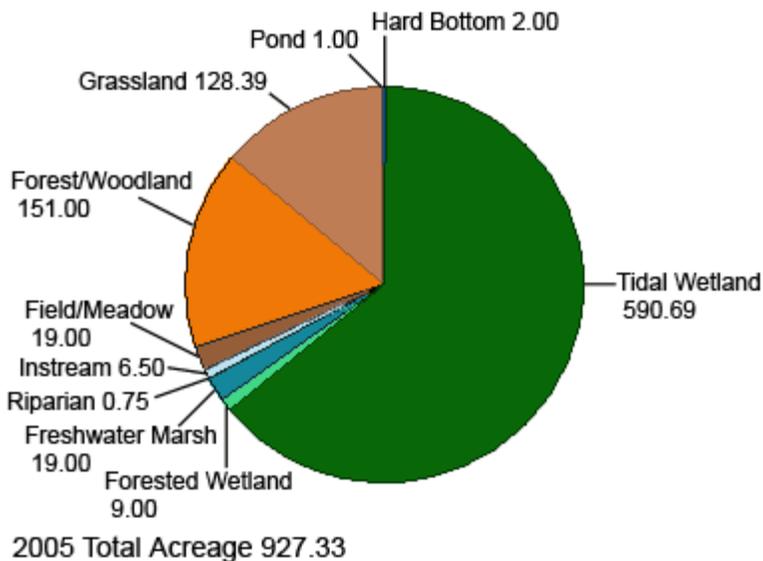
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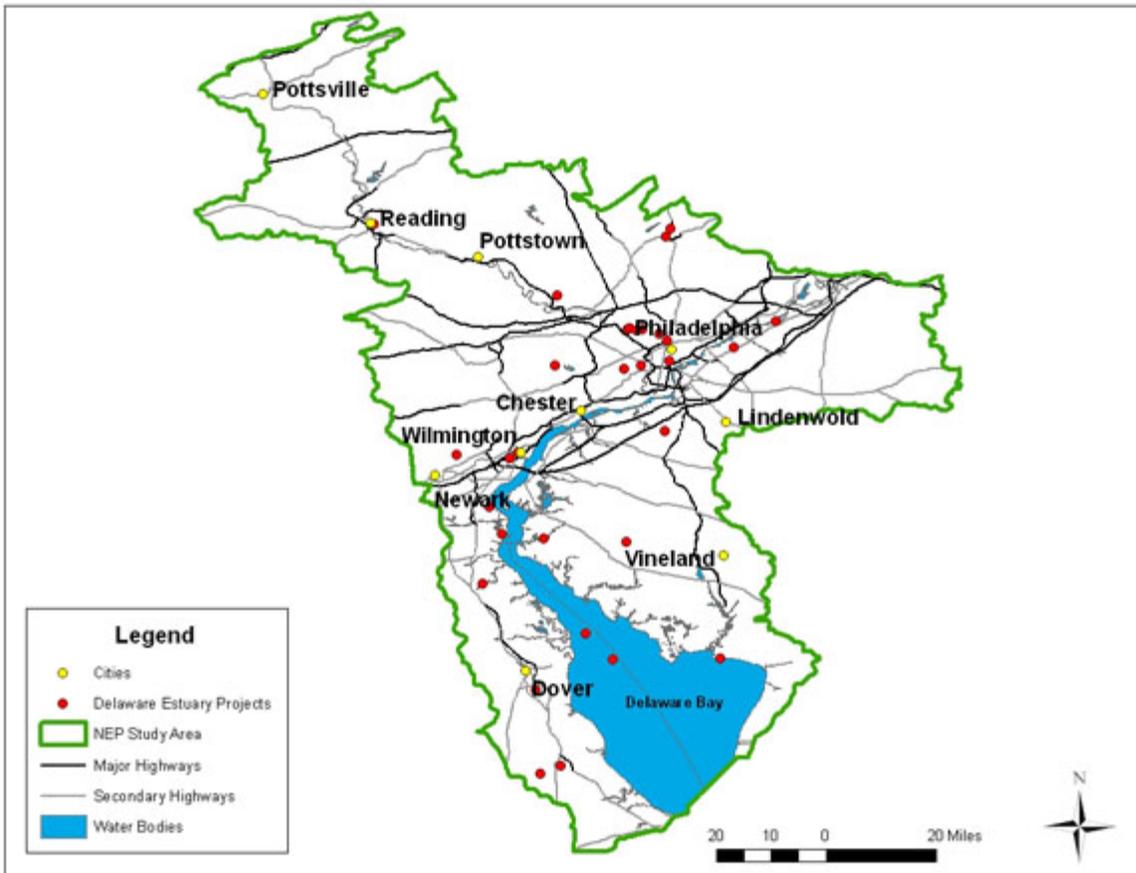
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Delaware Estuary GPRA 2005 Report Summary by Habitat Category

[Return to Maps](#)

Select the year you want to see the report for: 2005





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Year 2005 Projects					
Project Name	Activity	Project Description	Habitat Type	Acreage	Linear Miles
7th & Cheltenham (Mill Run) Stream Restoration	Reestablishment	The work consisted of bank revetment and channel modifications in the vicinity of the stormwater outfall . To clear the concrete pad at the outfall, regrade 100 linear feet of the natural channel bottom and stabilize the stream banks using natural techniques.	Instream	0.50	0.02
Awbury Arboretum Watershed Restoration Project	Reestablishment	Restore a riparian buffer, improving a 3-acre wet-meadow, stormwater diversion and stream daylighting in Tookany/Tacony-Frankford Watershed .	Field/Meadow	3.00	
Black's Creek Greenway Native Habitat Restoration and Monitoring Program	Reestablishment	Restore and maintain habitat along the 2 mile stretch of Black's Creek.	Riparian		2.00
Burkholder Stream Restoration and Fencing Project	Fencing a stream bank	Establish Agricultural Best Management Practices through stream bank fencing, stream bank stabilization and invasive species removal on cattle pasture	Riparian		0.42
Cobbs Creek Stream Restoration	Reestablishment	Stabilization of a reach of Cobbs Creek using fluvial geomorphologic principals and natural channel design techniques. Restoration techniques were selected based upon a	Instream	6.00	0.19

		comprehensive, watershed-wide, fluvial geomorphologic characterization completed by the project team using Rosgen methodologies.			
Delaware Artificial Reef Site 1	Enhancement	Reef sites are built to form structure for bait fish and other organisms to raise the bay's productivity	Hard Bottom	1.00	
Delaware Artificial Reef Site 2	Enhancement	Reef sites are built to form structure for bait fish and other organisms to raise the bay's productivity	Hard Bottom	1.00	
Delaware Bay Marsh Restoration Initiative	Reestablishment	Funding support was provided by NFWF to DU to purchase an amphibious marsh machine. In 2005, this machine is being used in the restoration of 300 acres of estuarine wetlands within the Delaware Bay. The machine will also be used by the partners through out the Delaware bay as part of a major restoration initiative by DU.	Tidal Wetland	300.00	
Delaware Estuary Invasive Weed Control	Reestablishment	Funding was provided by NFWF to DEIWS (a NGO) to support integrated vegetation management activities in Delaware. Target projects will be on publically owned and managed properties. For each project a targeted vegetation management plan is developed. The first project initiated in 2005 encompassed 100 acres on Delaware State lands in New Castle County. The project included mechanical cutting and ground herbicide treatments.	Upland, grassland	100.00	
DNERRS Blackbird Creek	Protection/Maintenance	Purchased for addition to the Blackbird Creek portion of the Delaware National Estuarine Research Reserve	Forest/Woodland	147.00	
Doylestown Hospital	Enhancement	Implemented a previous developed plan to install native plants to the banks of the pond in order to control erosion and keep out Canada Geese. There is an existing walking trail and pavilion overlooking the pond, where interpretive signage will be posted to educate visitors about the benefits of the project	Pond	1.00	
Former Collegetown Dam Impoundment Re-Vegetation Project	Reestablishment	Plant native vegetation in the riparian buffer of the former impoundment area and exposed gravel bars (2.5 miles total) from the removal of the Collegetown Dam on the Perkiomen Creek in Pennsylvania.	Instream		2.50
Goat Island Invasives Removal	Reestablishment	Remove invasive plant species and woodland debris on the 8 acre Goat Island located in Milford City on the Mispillion River.	Forested wetland	8.00	
Goodrich Dam Removal	Reestablishment	Remove the Goodrich Dam on the Perkiomen Creek in Montgomery County, Pennsylvania. Located near the confluence of the Schuylkill River, the first blockage to migratory fishes on the Perkiomen Creek.	Instream		1.00
Kentucky Warbler Habitat Enhancement	Enhancement	Re-establishment of critical habitat for the Kentucky Warbler. Includes the removal of invasive species and planting of native flora and fauna.	Field/Meadow	7.00	
Lower Pennypack Creek Anadromous Fish Passage Project	Reestablishment	"Remove the first 3 obstructions (2 dam removals and 1 sewer crossing) to anadromous fish passage in Pennypack Creek,"	Instream		3.50
Mill Creek Public Housing Redevelopment Project	Enhancement	Construction of a sub-grade detention/infiltration facility in a new City park to manage street runoff from a 20-acre housing redevelopment project built in a combined sewer zone.	Grassland	2.25	
Models for Stormwater Management on Vacant Lots	Enhancement	"Incorporation of simple stormwater management/runoff detention techniques (i.e., site grading & berming) into the City's vacant lot stabilization program"	Grassland	4.00	
NJ American Water/Thames	Enhancement	The area was sprayed to control invasives and then seeded with 2 species of warm season grasses native to NJ.	Field/Meadow	3.00	

Water					
Noramco	Enhancement	A mown section of the property adjacent to the Christina River was divided into sections and planted with native grasses and wildflowers.	Field/Meadow	1.00	
Peggy Lee Property	Protection/Maintenance	Purchase of property by DelDOT to protect scenic quality of rural road	Grassland	2.14	
Pine Run Meadow Restoration Program	Enhancement	Create wildlife habitat in the Neshaminy Creek Watershed by planting and maintaining native warm season grass meadows on Bucks County owned property along the shores of the Pine Run Reservoir,	Grasslands	20.00	
Port Penn	Protection/Maintenance	The field was used by the Port Penn interpretive center the wetlands were purchased by Delaware Wild Lands	Field/Meadow	5.00	
Restoration of Thompson's Beach	Enhancement	restore 5,000 feet of Thompson's Beach located in Maurice River Township, Cumberland County, New Jersey to provide suitable habitat for breeding horseshoe crabs and valuable foraging ground for migrating shorebirds, such as the red knot.	Beach		0.95
Ridley Creek Wetland Restoration Project	Reestablishment	Install a native plant biofilter tion system between a 20-horse equestrian facility and a 0.75 acre pond and wetland that serves as a headwater to an unnamed Ridley Creek tributary. A 160-foot path leading from the Environmental Living Demonstration Center to the pond will be created to enhance the learning opportunities at the center.	Riparian	0.75	0.30
Riverside Subdivision	Protection/Maintenance	Wetlands associated with a private development project	Tidal Wetland	17.69	
Russell Peterson Urban Wildlife Refuge	Reestablishment	"Stabilized shorelines, excavated water channels to their historic patterns and installed wildlife nesting structures"	Tidal Wetland	225.00	
Salt Marsh Restoration in Mad Horse Wildlife Management Area	Reestablishment	Restore 48 acres of high and low intertidal marsh within the Mad Horse Wildlife Management Area, 600 acres of state owned and managed land, adjacent to Alloways Creek in Hancocks Bridge, Salem County, NJ.	Tidal Wetland	48.00	
Schuylkill Center	Enhancement	Canopy gap was filled in with trees and shrubs. Area bordering a handicap accessible path was installed with native meadow plants.	Forest/Woodland	2.00	
Springside School	Enhancement	Students cleared invasive species and planted wetland species native to PA in their place	Forested Wetland	1.00	
Stabilization of Synnotts Pond and Camelback Run	Reestablishment	Biologs were installed along the eroded banks of the 2 stream branches located to the north of Synnotts Pond and along the banks of the stream corridor between the Synnotts Pond and the Mantua Avenue Bridge. Erosion resistant vegetation wwas also planted.	Riparian		0.19
Stroud Research Facility	Enhancement	Canopy gap was filled in with trees and shrubs. Part of an existing long term plan to reestablish the entire property as Forest	Forest/Woodland	2.00	
The Wise's Mill Restoration Project	Reestablishment	Restore 19 acres of wetland area and a riparian area at the headwaters of the Wise's Mill stream. Invasive plants will be removed and replaced with appropriate native plants.	Freshwater Marsh	19.00	
Three Little Bakers	Reestablishment	This stream was restored to stabilize its banks, create habitat, improve water quality, reduce flooding, maintain a natural appearance "	Riparian		0.95
Upper Cohansey Biofilter Wetland Project	Reestablishment	Create a 7,500 square foot biofilter wetland to treat nutrient laden overflow water from a tail water recovery system at a nursery operation along the Cohansey River in Cumberland County, New Jersey.	Freshwater Marsh		1.42
Total				927.33	12.02

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