



Habitat Protection

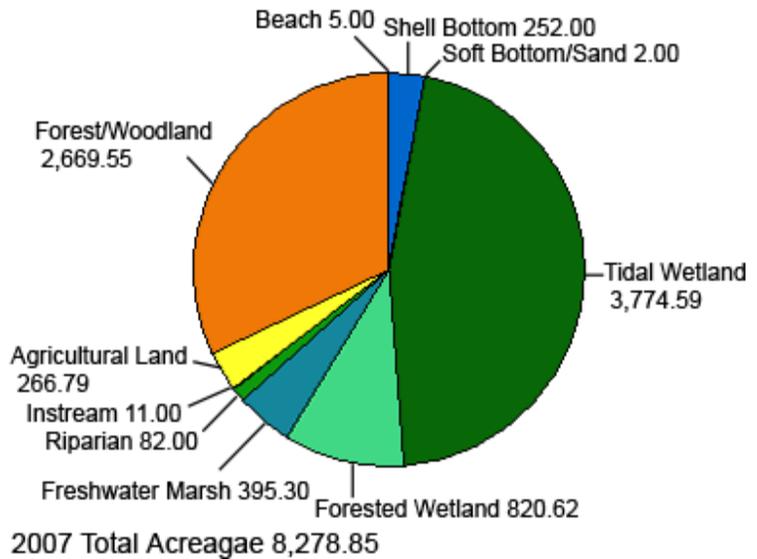
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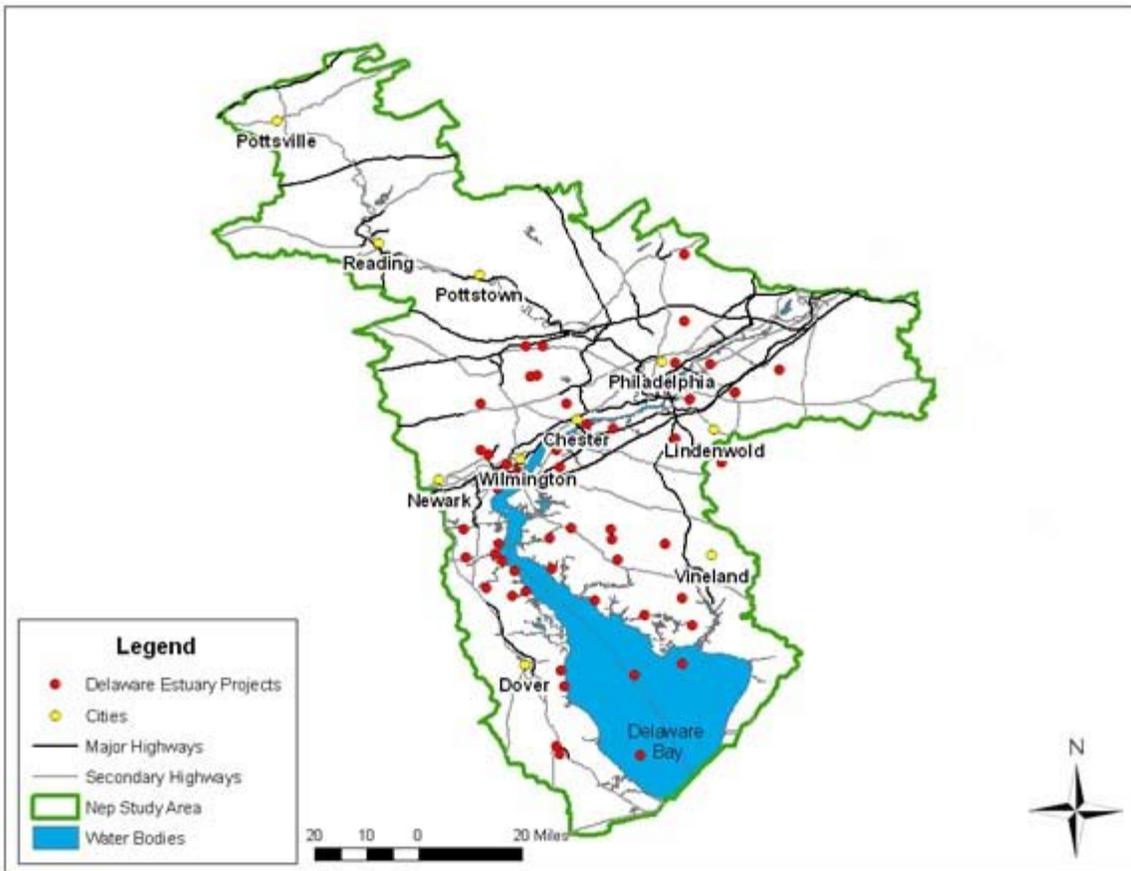
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Delaware Estuary GPRA 2007 Report Summary by Habitat Category

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Year 2007 Projects					
Project Name	Activity	Project Description	Habitat Type	Acreage	Linear Miles
2007 State of Delaware Oyster Revitalization Project	Enhancement	This is the 3rd year this project has received federal support thanks to the work of our Delaware Bay Congressional delegation. The project is being carried out by the Delaware Bay Oyster Restoration Task Force. This funding supports the on-going implementation of the Delaware Bay Oyster Restoration Plan. Current restoration efforts include shell-planting and juvenile oyster transplants from down bay to up bay oyster beds. Funding also allowed for an extensive Education and Outreach component carried out by PDE.	Shell Bottom	152.00	0.00
2007 State of New Jersey Oyster Revitalization Project	Enhancement	This is the 3rd year this project has received federal support thanks to the work of our Delaware Bay Congressional delegation. The project is being carried out by the Delaware Bay Oyster Restoration Task Force. This funding supports the on-going implementation of the Delaware Bay Oyster Restoration Plan. Current restoration efforts include shell-planting and juvenile oyster transplants from down bay to up bay oyster beds. Funding also allowed for an extensive Education and Outreach component carried out by PDE.	Shell Bottom	100.00	0.00
Abbots Meadow Wildlife Management Area	Restoration / Rehabilitation	Property consists of five lots in Elsinboro Township, Salem County that are adjacent to state-owned land and would be an addition to Abbots Meadow Wildlife Management Area.	Forested Wetland	43.16	0.00
Allows Creek - Thundergut	Protection / Maintenance	Property is a mosaic of uplands and forest with some modified agricultural lands. Great potential for grassland restoration on mowed agricultural areas. Property will become part of the Thundergut Wildlife Management Area.	Forest / Woodland	164.77	0.00

Wildlife Management Area		The property is currently pastureland and woodland.			
Allows Creek Boy Scout Camp	Protection / Maintenance	Former Boy Scout Camp property that has active agricultural cultivation with woodland edges. Property is in the Allows Creek watershed in Salem County, New Jersey and is experiencing tremendous development pressure.	Agricultural Land	209.09	0.00
Allows Creek Greenway	Protection / Maintenance	Property is adjacent to Thurgut Pond Wildlife Management Area in Salem County, New Jersey. The land has frontage on the pond. This land will be incorporated in TWMA and will provide greater opportunity for public access. This region has been identified as a critical area for land acquisition due to increasing development pressure.	Freshwater Marsh	2.30	0.00
Army Creek	Restoration / Rehabilitation	Phragmites were herbicided in late summer/early fall of 2006. Dead Phragmites canes were burned in March 2007. Project is now waiting for contaminant remediation measures to be completed before additional habitat restoration can be attempted. Restoration of full or partial tidal exchange is ultimate goal.	Freshwater Marsh	170.00	0.00
Artificial Reef Site #6	Enhancement	The State of Delaware has been very active in developing artificial reef sites. Utilizing various materials (i.e. old subway cars, concrete, etc.), these sites are built to form structure for bait fish and other organisms to raise the Bay's productivity. To date this on-going initiative has been very successful.	Soft Bottom/sand	1.00	0.00
Bear Swamp Preserve	Protection / Maintenance	This 33 acre wooded pinelands property contains mostly hardwood swamp wetlands which contain several T&E species. The land also has road frontage on Rt 70. The acquisition of this parcel would make an excellent addition to the adjacent Bear Swamp Preserve.	Forested Wetland	33.30	0.00
Belleplain State Forest Land Acquisition	Protection / Maintenance	Property is adjacent to state-owned land. Purchase of this property will insure the preservation of land which provides habitat for forest dwelling species. This property will become part of Belleplain State Forest.	Forest / Woodland	124.08	0.00
Bevan/Millville Wildlife Management Area	Protection / Maintenance	Property is forested, landlocked and adjacent to existing State-owned land and will become part of the Bevan/Millville Wildlife Management Area in Cumberland County, New Jersey.	Forest / Woodland	9.37	0.00
Bevan/Millville Wildlife Management Area (Muddy Run)	Protection / Maintenance	Property is forested, adjacent to existing State-owned land and will become part of the Bevan/Millville Wildlife Management Area. Property abuts Muddy Run, a tributary to the federally-designated, wild and scenic Maurice River.	Forested Wetland	14.67	0.00
Blackbird Reserve Wildlife Area	Protection / Maintenance	The purchase of 2 tracts that are adjacent to each other by Delaware National Estuarine Research Reserve in New Castle County that will go on the DFW inventory and become a new wildlife area, The Blackbird Reserve Wildlife Area. A partnership between a NOAA federal grant and the State's Open Space program funded the project. Eagle Farms cost \$3,240,000, Sheats was \$1,802,750.	Forested Wetland	532.00	0.00
Brandywine Creek	Restoration / Rehabilitation	3,500 linear feet of comprehensive stream channel restoration and associated riparian buffer restoration and stormwater BMP installation along Cloebrook Run, a 2nd order tributary to the West Valley Creek in the Brandywine/Christina River Basin.	Riparian	0.00	0.00
Buttonwood	Restoration / Rehabilitation	Site is a former tidal, freshwater wetland that has been ditched, drained and impounded for 50+ years. Due to this degradation, the site has lost many of its wetland functions and values. Site has also become dominated by non-native Phragmites. Phragmites were treated with herbicides in early fall of 2006. Dead Phragmites canes were then burned in March 2007.	Freshwater Marsh	45.00	0.00
City of Milford Porcelain Berry Eradication Program-II	Restoration / Rehabilitation	The City of Milford Parks & Recreation will restore 100-plus acres of wetland and upland habitat within the city limits by eliminating porcelain berry, an exotic invasive plant developing a foothold in this watershed. The project will survey, map and remove the infestation and replant with native species. This project will enhance hands-on eradication techniques and increase public awareness of the negative impacts of invasive species on native plants and animals in the region by demonstrating the techniques in a public workshop for 25 residents with a hoped-for outcome of an additional 75-plus acres restored in neighborhoods.	Freshwater Marsh	100.00	0.00

City of Milford Vegetative Shoreline Restoration Project	Enhancement	Installation of 175' of biologs, fill and native plantings to stabilize the banks and initiate the establishment of streamside vegetation along a degraded reach of the upper Mispillion River.	Riparian	0.00	0.00
Cooks - Tohickon Creeks	Restoration / Rehabilitation	Project includes the restoration of 1500' of streambank and the planting of a 900' riparian buffer. Project also includes pre and post monitoring of areas.	Riparian	0.00	0.00
Crabby Creek	Restoration / Rehabilitation	Trout Unlimited will restore 1,200 linear feet of Crabby Creek where several upper tributaries come together using step pools, vanes and cribs to reduce sediment load to downstream habitat and spawning areas for brown trout. This project is the first part of a project to restore the creek system through a combination of stormwater management, floodplain reconnection, streambank stabilization and in-stream habitat improvements.	In-Stream	0.00	0.00
Crosswicks Creek Watershed	Protection / Maintenance	Property is completely surrounded by Assunpink Wildlife Management Area in Monmouth County, New Jersey and has been of interest to the Division of Fish and Wildlife for many years in order to expand the management area.	Agricultural Land	23.70	0.00
Delaware Artificial Reef Site #5	Establishment	The State of Delaware has been very active in developing artificial reef sites. Utilizing various materials, i.e. old subway cars, concrete, etc., these sites are built to form structure for bait fish and other organisms to raise the Bay's productivity. To date this on-going initiative has been very successful.	Soft Bottom / Sand	1.00	0.00
Dividing, Nantuxent, Cedar and Back Creeks	Protection / Maintenance	Property is located directly adjacent to Edward Bevan Wildlife Management Area on the Dividing Creek in Cumberland County, New Jersey. This area is a popular location for birding activities.	Forest / Woodland	115.99	0.00
Dr. James Still's Property	Protection / Maintenance	Dr. James Still was a 19th-century physician called the black doctor of the Pines. The property contains the historic building which housed Still's practice and the surrounding grounds.	Forest / Woodland	8.80	0.00
Gibbstown Nature Trail and Observation Cove	Restoration / Rehabilitation	The Township of Greenwich will restore a three acre site by eradicating invasive plants, revegetating the site with native species and developing an Environmental Inventory for a 40-acre greenbelt linking Nehaunsey Park to Millennium Park to guide land management. The project will increase watershed awareness by providing signage, educating 200 students grades K-8 and through outreach to 1,000 residents and community service projects.	Forest / Woodland	3.00	0.00
Heislerville Wildlife Management Area	Protection / Maintenance	Property acquisition of contiguous land which will be incorporated into and expand the Heislerville Wildlife Management Area. Property consists of fresh water and estuarine wetlands with some fringe uplands.	Tidal Wetland	46.00	0.00
Hickory Spring Road Stream Restoration	Enhancement	A 350' stream restoration project along a tributary to the Red Clay Creek (near Delaware National Country Club) was completed in March 2006 to stabilize severe stream bank erosion. Log toe and rock toe protection along with a series of step pools were used to restore this degraded channel. Native plantings were put in along the length of the restoration project.	Riparian	1.00	0.00
Historic Rittenhouse Town Riparian Buffer Improvement Project	Restoration / Rehabilitation	Center in the Park's Senior Environment Corps will control invasive vegetation and replant native species along 700 foot (with 20-75 foot buffer)of Monoshone Creek in Fairmont Park. The project will also develop an educational and interpretive program.	Riparian	0.00	0.00
Invasive Control and Restoration at Sadler's Woods III	Restoration / Rehabilitation	Haddon Township Environmental Commission will remove invasive plants and revegetate with native species in the understory of 25 acres of old growth forest within the framework of a new forest management plan. The project will also focus on increasing visitation and education with a new self-guided trail. In the last DEWGP award invasive plants were removed and a multilayered forest buffer of native species were planted on two acres of forest. Saddler's Woods is one of the last remaining examples of old growth forest in the Eastern U.S.	Forest / Woodland	25.00	0.00
Lindquist Farm/Watson Creek Habitat	Restoration / Re-establishment	Bucks County Trout Unlimited will remove a concrete dam to enhance fish passage for brown trout, install 1,500 feet of forested riparian buffer and stabilize 500 feet of eroding stream bank along Watson Creek. The project	In-Stream	0.00	0.00

Restoration		builds on a prior DEWGP award which assessed the restoration priorities in the Mill Creek Watershed.			
Lower Schuylkill River, Wissahickon Creek	Restoration / Re-establishment	Restore 900 feet of Little Valley Creek, including daylighting the stream that is currently piped in two culverts and buried under asphalt paving. Stream banks and floodplain will also be restored.	Riparian	0.00	0.00
Mannington Township Land Acquisition	Protection / Maintenance	Property is directly adjacent to lands owned by State of New Jersey and managed by New Jersey Department of Environmental Protection Division of Fish and Wildlife in Salem County.	Agricultural Land	34.00	0.00
Mantua Creek	Protection / Maintenance	This 5 acre land locked property borders a lake which is connected to the tidal portion of the Mantua Creek. This property offers excellent water access for fishing, hunting, canoeing and nature study.	Tidal Wetland	4.78	0.00
Mantua Creek	Protection / Maintenance	This 61 acre property contains a tidal lake, which connects to the tidal portion of Mantua Creek. The upland area along the road provides excellent public access to this parcel for fishing, boating, hunting, water views and other recreational activities.	Riparian	61.00	0.00
Maurice River Greenway	Protection / Maintenance	Property will add to the Maurice River Greenway Project. The acquired land is surrounded by existing state land and will further complete this particular parcel.	Tidal Wetland	5.00	0.00
Muskee Creek Watershed Land Acquisition	Protection / Maintenance	Properties are near/adjacent to Peaslee Wildlife Management Area, located within Muskee Creek Watershed, part of the Maurice River Wild & Scenic River System. Properties are large contiguous tracts of pine/oak forest with atlantic white cedar wetlands.	Forested Wetland	145.54	0.00
New Sweden Wildlife Management Area	Protection / Maintenance	Property is a coastal marsh adjacent to Delaware Bay. Property will become part of New Sweden Wildlife Management Area in Cumberland County, New Jersey.	Tidal Wetland	48.70	0.00
Peach House Beach	Restoration / Rehabilitation	Beach area phragmites were treated with herbicides in the early fall of 2006. Dead phragmites canes were burned in March 2007 to remove the obstacle for the turtles.	Beach	5.00	0.00
Peaslee Wildlife Management Area	Protection / Maintenance	This property is located directly adjacent to Peaslee Wildlife Management Area. At over 25,000 acres, Peaslee Wildlife Management Area is the second largest wildlife management area in the state of New Jersey.	Forest / Woodland	578.00	0.00
Peaslee Wildlife Management Area and Heislerville Wildlife Management Area	Protection / Maintenance	All of these properties are undeveloped land. Properties are near/adjacent to Peaslee Wildlife Management Area and Heislerville Wildlife Management Area; located within the watershed of the Maurice River Wild & Scenic River.	Forest / Woodland	102.37	0.00
Phrag 1- Peterson Wildlife Refuge	Enhancement	Aerial herbicide application by the State of Delaware to control a highly invasive phragmites population in this tidal wetland, in tributaries and along Delaware Bay.	Tidal Wetland	40.00	0.00
Phrag 10-- Parks and Recreation	Enhancement	Aerial herbicide application by the State of Delaware to control a highly invasive phragmites population in this tidal wetland, in tributaries and along Delaware Bay.	Tidal Wetland	267.00	0.00
Phrag 11- Forest Service	Enhancement	Aerial herbicide application by the State of Delaware to control a highly invasive phragmites population in this tidal wetland, in tributaries and along Delaware Bay.	Tidal Wetland	60.00	0.00
Phrag 12-- Woodland Beach	Enhancement	Aerial herbicide application by the State of Delaware to control a highly invasive phragmites population in this tidal wetland, in tributaries and along Delaware Bay.	Tidal Wetland	800.00	0.00
Phrag 2--C&D Canal Wildlife Area	Enhancement	Aerial herbicide application by the State of Delaware to control a highly invasive phragmites population in this tidal wetland, in tributaries and along Delaware Bay.	Tidal Wetland	60.00	0.00

Phrag 3-Augustine Wildlife Area	Enhancement	Aerial herbicide application by the State of Delaware to control highly invasive phragmites population in this tidal wetlands in tributaries and along Delaware Bay.	Tidal Wetland	358.00	0.00
Phrag 4-Silver Run Wildlife Area	Enhancement	Aerial herbicide application by the State of Delaware to control a highly invasive phragmites population in this tidal wetland, in tributaries and along Delaware Bay.	Tidal Wetland	235.00	0.00
Phrag 5-Green Tract	Enhancement	Aerial herbicide application by the State of Delaware to control a highly invasive phragmites population in this tidal wetland, in tributaries and along Delaware Bay.	Tidal Wetland	440.00	0.00
Phrag 6-Cedar Swamp	Enhancement	Aerial herbicide application by the State of Delaware to control a highly invasive phragmites population in this tidal wetland, in tributaries and along Delaware Bay.	Tidal Wetland	260.00	0.00
Phrag 7-Little Creek	Enhancement	Aerial herbicide application by the State of Delaware to control highly invasive phragmites population in this tidal wetlands in tributaries and along Delaware Bay.	Tidal Wetland	200.00	0.00
Phrag 8-Ted Harvey	Enhancement	Aerial herbicide application by the State of Delaware to control a highly invasive phragmites population in this tidal wetland, in tributaries and along Delaware Bay.	Tidal Wetland	40.00	0.00
Phrag 9-Delaware Wetlands Rehabilitation Program	Enhancement	Aerial herbicide application by the State of Delaware to control a highly invasive phragmites population in this tidal wetland, in tributaries and along Delaware Bay.	Tidal Wetland	902.00	0.00
Pinelands Girl Scout Camp Site	Protection / Maintenance	This mostly wooded Pinelands property is an existing Girl Scout Camp and contains several T&E species including rattlesnakes and Swamp pink. There is a lake on site as well as the developed camp facilities and a large forested area adjacent to Wharton State Park. The camp was purchased by and is now owned by the State. They are allowing the Girl Scouts to continue to have camp out there, but the land is permanently protected from development.	Forest / Woodland	290.76	0.00
PSE&G Bayside Tract	Protection / Maintenance	Property is within the Cohansey River Watershed and is adjacent to Bayside Tract, lands conserved by PSE&G as part of their Estuary Enhancement Program. This acquisition will protect aquatic habitat by preserving adjacent uplands from development.	Freshwater Marsh	78.00	0.00
Raccoon Creek Greenway	Protection / Maintenance	This property borders the existing Logan Pond Wildlife Management Area and will make an excellent addition and allow access to this site. The property has good upland road frontage as well as rich wooded and emergent wetlands bordering the tidal portion of Repaupo Creek.	Forested Wetland	51.95	0.00
Reforestation of the Riparian Buffers of the Appoquinimink Watershed	Restoration / Re-establishment	The Appoquinimink River Association will reforest 20 acres of riparian habitat focused on parts of the watershed with inadequate buffers, educate local landowners about the value of such buffers and provide incentives to them to install streamside forested buffers. The project is particularly interesting because the ARA conducted extensive surveys among area residents about their potential to commit to planting mixed borders of native plants in yards near waterways to provide habitat and improve water quality. 73% of homeowners surveyed indicated they were highly interested in participating in a program. Partners include Delaware Department of Natural Resources and Environmental Control, University of Delaware Water Resources Agency, Delaware Department of Transportation, New Castle Department of Special Services and Towns of Middletown, Townsend and Odessa.	Riparian	20.00	0.00
Ridley Creek	Restoration / Re-establishment	Willistown Township received funding support to remove an old dam on the Ridley Creek and concurrently to remove invasive plants and restore the riparian area adjacent to the dam site. The site is part of a township-owned park that is maintained as a natural area. Ridley Creek has been the subject of a focused effort to remove barriers to fish passage, and has been stocked with migratory fish species by the Fish and Boat Commission.	In-Stream	11.00	0.00
Stow Creek - Burden Hill	Protection / Maintenance	This is a landlocked parcel in the area of Burden Hill in Quinton Township, Salem County. An outlying remnant of the Pine Barrens ecological community and the largest forest in Salem County.	Forest / Woodland	35.20	0.00
Stow Creek Wildlife	Protection / Maintenance	Acquisition of this property will provide access to Stow Creek Wildlife Management Area at Maskills Mill in Salem County, New Jersey. This	Tidal Wetland	8.11	0.00

Management Area		region of the Delaware Bay Shore is a popular location for birding.			
Stream and Habitat Restoration on Pennypack Creek	Restoration / Rehabilitation	The Pennypack Ecological Restoration Trust will stabilize 600 feet of steep and undercut stream bank, restore that bank with native plants and reduce the channel width to enhance stream habitat on Pennypack Creek. The restoration will involve 15 volunteers from the local Trout Unlimited Chapter. The project builds on the prior removal of the Bethayres Dam in 2005 which opened 7.5 miles of fish passage and restored 2.5 acres of stream and riparian habitat on Pennypack Creek.	Riparian	0.00	0.00
US Silica Property	Protection / Maintenance	This acquisition is part of multi-year initiative to purchase US Silica, a mining operation which is being closed down and lands restored. This property is located adjacent to the mining operation and will greatly add to the overall project.	Forest / Woodland	809.72	0.00
White Oak Wildlife Management Area	Protection / Maintenance	Property acquisition is directly adjacent to White Oak Wildlife Management Area and is located in Gloucester County. The White Oak Creek runs through the property and drains into Sunset Lake.	Forest / Woodland	165.08	0.00
White Oak Wildlife Management Area #2	Protection / Maintenance	Property was under an immediate threat of development. Property is located adjacent to the White Oak Branch Wildlife Management Area in Gloucester County, New Jersey.	Forest / Woodland	237.41	0.00
Total				8,278.85	0.00

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