



Habitat Protection

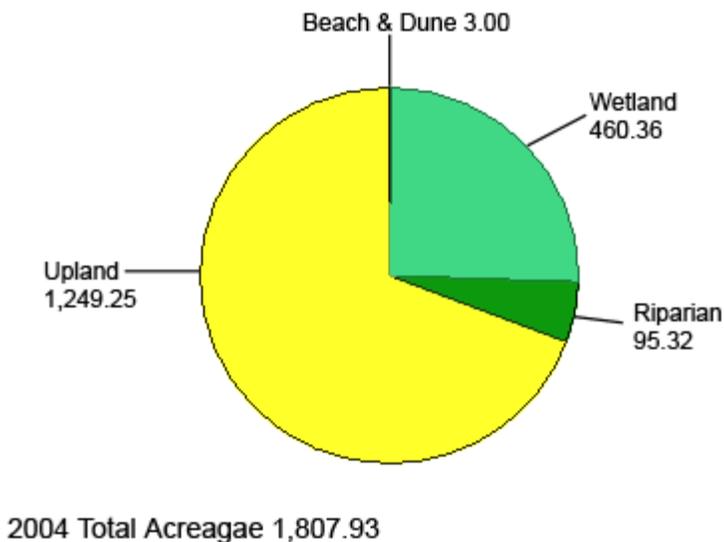
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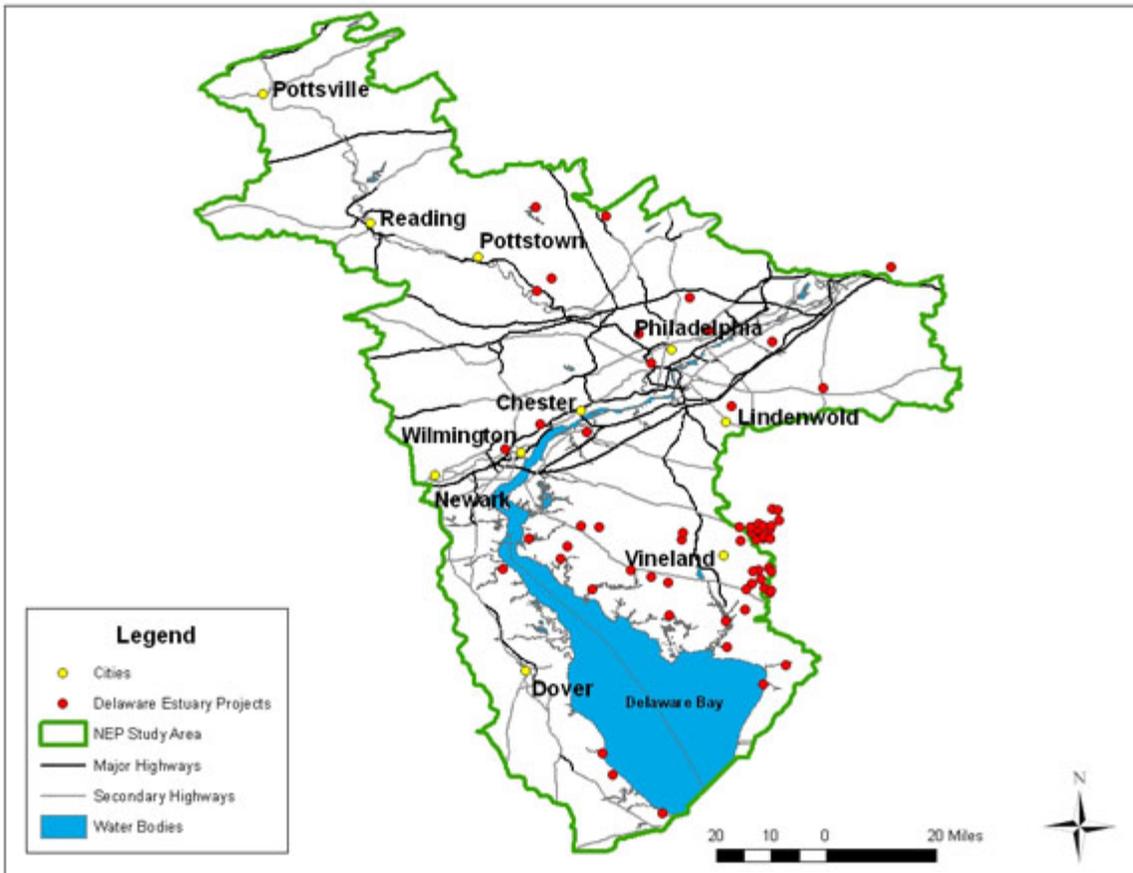
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Delaware Estuary GPRA 2004 Report Summary by Habitat Category

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Year 2004 Projects					
Project Name	Activity	Project Description	Habitat Type	Acreage	Linear Miles
Alloway Twp. Land Acquisition - (Green Acres)	Protection	Land Purchase	Uplands	115.01	
Ardentown Woods Restoration	Enhancement	Removal of invasive plant species in the Ardentown Woods along runs leading to Naamans Creek. Native species were planted and residents trained to remove easier invasive species and protect the forests.	Riparian	1.50	
Bayard Elementary School Habitat Garden	Enhancement	Restored a degraded bog and create a habitat garden through a newly formed after-school garden club.	Wetland	1.00	
Bog Turtle Habitat Restoration (PA)	Rehabilitation	Work with private landowners in southeastern Pennsylvania to restore two acres of wetland habitat including the removal of invasive species for the federally threatened bog turtle. Also develop an innovative management plan for restoration sites using prescribed grazing by livestock.	Wetland	2.00	
Buchshutem (NJ) Savannah Restoration	Rehabilitation	Restore habitat for upland game birds on the Buchshutem Wildlife Management Area in New Jersey. Following timber management, native warm season grasses will be planted on 80 acres to benefit grassland birds and butterflies.	Upland	120.00	
Buck Run	Rehabilitation	Removed Drain that Exited Halfway up Streambank	Uplands	41.00	

		--- Diverted Stormwater Upstream to Existing Floodplain/Wetland --- Reengineered Failed Stormwater System to Capture NPS from 41 Acres of Farm and Residential Land			
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	23.00	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.43	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.48	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.26	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.25	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.34	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.68	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.25	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.69	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.25	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	3.53	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.65	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.64	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.54	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.25	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.25	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.25	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.25	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.52	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.57	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.52	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.23	
Buena Vista Twp. (PINELANDS) Green Acres Land Acquisition	Protection	Land Purchase	Uplands	0.34	
CAPE MAY PENINSULA	Protection	Land Purchase	Uplands	1.88	
CAPE MAY PENINSULA Land Acquisition	Protection	Land Purchase	Wetland	17.36	
CAPITOL TO THE COAST	Protection	Land Purchase	Uplands	265.00	

COHANSEY RIVER GREENWAY	Protection	Land Purchase	Riparian	75.02	
COHANSEY RIVER GREENWAY	Protection	Land Purchase	Uplands	38.89	
Collegeville Borough - Perkiomen Dam Removal	Re-Establishment	Remove a 250 Ft Dam that Was no Longer Needed --- 30 Ft Stream Channel Restoration	Instream		0.01
COOPER RIVER GREENWAY	Protection	Land Purchase	Uplands	27.10	
Delaware Bay Habitat Restoration (DE)	Rehabilitation	Restore 50 acres of wetlands and associated upland riparian buffers on private agricultural lands in Delaware that drain into the Delaware Bay. Restoration sites will create habitat corridors for local and migratory wildlife. Plug drainage ditches, construct low-level berms, create shallow excavated areas, install water control structures Wetlands and associated upland riparian buffers on private agricultural lands within Assawoman, Broadkill, Cedar Creek, Murderkill and Lepsic watersheds.	Wetland	50.00	
Delaware Estuary Phragmites Control Partnership	Rehabilitation	Coordinate eradication of Phragmites on 300 acres of tidal wetlands in New Castle County, DE. Treatments will demonstrate integrated vegetation management approach on industrial, state and municipal lands.	Wetland	300.00	
Delaware Nature Society Reforestation of 3 Sites - Site 1 Blackbird Creek;	Enhancement	Management of 34 acres of oak and hickory plantings at three sites in the Delaware Estuary by tree-tubing seedlings and removing weedy species (i.e. sweet gum and honeysuckle) that may threaten to overwhelm the tree seedlings.	Upland	1.50	
DIVIDING/NANTUXENT/CEDAR/BACK CREEKS	Protection	Land Purchase	Uplands	48.38	
DIVIDING/NANTUXENT/CEDAR/BACK CREEKS Land Acquisition	Protection	Land Purchase	Uplands	9.81	
DIVIDING/NANTUXENT/CEDAR/BACK CREEKS Land Acquisition	Protection	Land Purchase	Uplands	72.09	
DUCK STAMP	Protection	Land Purchase	Uplands	130.00	
Invasive Plant Control at Tinicum (PA)	Rehabilitation	Degraded wetlands over run with invasive exotic species such as Phragmites, Purple Loosestrife, Japanese Knot Weed, Garlic Mustard and Mile a Minute VineControl invasive phragmites on the John Heinz National Wildlife Refuge at Tinicum in Pennsylvania. Herbicides will be aerial-sprayed on 10 acres, and students will remove weeds on an additional 10 acres. Activities are integrated into curriculum.	Wetland	20.00	
Knotweed Control in Philadelphia (PA)	Rehabilitation	Complete the eradication of invasive Japanese Knotweed plants from previously restored riparian areas along two major urban creeks in Philadelphia, PA. Several new sites along these creeks will also be managed for a total of 9 acres. Cut knotweed in preparation for herbicide application, apply herbicides, remove the cut plant material, prepare the site, install new plantings	Riparian	9.00	
Little Schuylkill Tributaries BMP	Re-Establishment	Stabilized 800 Ft of Severely Eroded Streambank and Created Fish Habitat in the Stream	Riparian		0.15
Logan Township Land Acquisition - HISTORIC RESOURCES/REGISTER ELIGIBLE SITES	Protection	Land Purchase	Uplands	74.37	
MacArthur Old-Growth Forest Conservation (NJ)	Rehabilitation	Eradicate invasive plants in the MacArthur old-growth forest tract in Haddon Township, New Jersey. Rehabilitate 15 acres of Oak Appalachian forest habitat. Engage citizen volunteers and students in re-planting native species.	Uplands	15.00	
Matthew Samuel Farm Conservation	Rehabilitation	Complete a model demonstration project on a farm	Uplands	1.70	

(PA)		in Bernville, PA that addresses all of the non-point source pollution. Implementation includes streambank fencing, invasive species removal, riparian buffers and construction of concrete pads for manure stacking and cattle feeding.			
MAURICE RIVER GREENWAY - City of Vineland Land Acquisition	Protection	Land Purchase	Uplands	1.06	
MAURICE RIVER GREENWAY - City of Vineland Land Acquisition	Protection	Land Purchase	Uplands	1.07	
MAURICE RIVER GREENWAY - Maurice Twp. Land Acquisition	Protection	Land Purchase	Uplands	1.03	
MAURICE RIVER GREENWAY - Maurice Twp. Land Acquisition	Protection	Land Purchase	Uplands	26.86	
MAURICE RIVER GREENWAY - Maurice Twp. Land Acquisition	Protection	Land Purchase	Uplands	16.84	
MAURICE RIVER GREENWAY - Maurice Twp. Land Acquisition	Protection	Land Purchase	Uplands	0.68	
MAURICE RIVER GREENWAY - Maurice Twp. Land Acquisition	Protection	Land Purchase	Uplands	0.68	
MAURICE RIVER GREENWAY - Maurice Twp. Land Acquisition	Protection	Land Purchase	Uplands	1.56	
MAURICE RIVER GREENWAY - Maurice Twp. Land Acquisition	Protection	Land Purchase	Uplands	0.68	
MAURICE RIVER GREENWAY - Maurice Twp. Land Acquisition	Protection	Land Purchase	Uplands	0.35	
MAURICE RIVER GREENWAY - Maurice Twp. Land Acquisition	Protection	Land Purchase	Uplands	23.00	
MAURICE RIVER GREENWAY - Maurice Twp. Land Acquisition	Protection	Land Purchase	Uplands	0.68	
MAURICE RIVER GREENWAY - Maurice Twp. Land Acquisition	Protection	Land Purchase	Uplands	0.34	
Milford Neck (DE) Wildlife Habitat Restoration	Rehabilitation	Restored natural hydrology to 22 acres of wetland habitat, reforest 28 acres of riparian forest buffer, and restore 10 acres of wet forest in the Milford Neck Nature Preserve, Delaware. Project involved community members in tree plantings. Plug drainage ditches, plant tree islands, remove 5 acres from agricultural production, reforest buffer areas	Wetland	60.00	
Mill Creek Park Bank Restoration (NJ)	Rehabilitation	Restore 100 feet of heavily eroded streambank in Mill Creek Park using innovative bioengineering techniques. Steambanks will be stabilized using biodegradable fiber logs and native vegetation plantings.	Riparian		0.02
Oak Lane Day School	Enhancement	The school consulted with a local contractor about the best way to control the Japanese Knotweed. Students formed a plan to eradicate the plant from the site. Mowing around the creek was also halted and students and family members planted native plants to create a buffer.	Riparian	3.00	
Pennypack Creek Japanese Knotweed Control/Riparian Restoration	Enhancement	Incorporate college biology department curriculum into hands-on stewardship of riparian lands along the Pennypack Creek. Students restored Pennypack Creek by removing invasive species and planting natives.	Riparian	4.00	
Perkiomen Sub-Watershed Initiative Sellersville Riparian Restoration	Enhancement	Riparian restoration/buffer enhancement of a degraded, 500-ft portion of the Perkiomen East Branch in Sellersville, PA involving extensive volunteer participation, educational opportunities for local secondary and college students, and education	Riparian		0.09

		and involvement of the landowner and local municipality.			
Ridley Creek (PA) Headwaters Conservation	Rehabilitation	Involve students and community members in riparian buffer restoration efforts at two sites along Ridley Creek in Edgemont Township, Pennsylvania. Volunteers will remove invasive species, plant trees, and create a wetland in the stormwater detention basin.	Riparian	0.60	
Schoolyard Habitat Restoration Project	Enhancement	Restoration of a meadow/open field habitat by students for use by migratory birds and other wildlife.	Upland	2.50	
Schuylkill Habitat Restoration Partner Project	Enhancement	This project involved physical challenged students from suburban and urban schools and their families in the restoration of the riparian habitat adjacent to the Philadelphia Adaptive Rowing Project.	Riparian	1.00	
Schuylkill Native Plant Restoration (PA)	Rehabilitation	Restore 10 acres of forest and wetlands in Philadelphia, Pennsylvania, removal of invasive species create an interpretative trail to educate approximately 60,000 visitors per year, and conduct a bird census and salamander survey.	Wetland	10.00	0.20
Schuylkill River/Wastewater Weir Channel Riparian Restoration	Enhancement	Bank stabilization of the point between the Schuylkill River and the Weir Channel, enhancement of terrestrial riparian habitat, establishment of shrub and ground cover on steep slopes, creation of aquatic plant habitat, creation of native plant educational areas, and establishment of a designated pathway to a popular fishing area.	Riparian		0.09
Site 2 Cedar Creek	Enhancement	Management of 34 acres of oak and hickory plantings at three sites in the Delaware Estuary by tree-tubing seedlings and removing weedy species (i.e. sweet gum and honeysuckle) that may threaten to overwhelm the tree seedlings.	Upland	14.00	
Site 3 Prime Hook National Wildlife Refuge	Enhancement	Management of 34 acres of oak and hickory plantings at three sites in the Delaware Estuary by tree-tubing seedlings and removing weedy species (i.e. sweet gum and honeysuckle) that may threaten to overwhelm the tree seedlings.	Upland	18.00	
Southampton Twp. (Pinelands) Land Acquisition	Protection	Land Purchase	Uplands	25.70	
STOW CREEK - Lower Alloways Creek Land Acquisition	Protection	Land Purchase	Uplands	31.86	
STOW CREEK - Quinton Twp. Land Acquisition	Protection	Land Purchase	Uplands	6.97	
STOW CREEK - Stow Creek Twp. Land Acquisition	Protection	Land Purchase	Uplands	51.49	
Sunoco Eagle Point Refinery	Enhancement	A partnership with Sunoco (formerly Coastal), US F& W Service, West Deptford Middle School and the Partnership. The site was sprayed and mown to control the Phragmites. It was then planted with several hundred trees and shrubs native to the site.	Upland	27.00	
U of D Dune Habitat	Enhancement	A native dune habitat was created at the University of Delaware's Marine Sciences building in Lewes, Delaware to show people what they can accomplish in their own backyards along the coast. The project promotes native plants and BMPs.	Beaches and Dunes	3.00	
Upper Perkiomen High School Bioretention Swales	Enhancement	Native species were be installed by volunteers in two existing storm water drainage swales on the campus of the Upper Perkiomen High School.	Wetland		0.11
Urban Runoff Management in a Tributary to Valley Creek	Re-Establishment	300 Ft Stream Channel Restoration	Instream		0.06
Valley Forge (PA) Riparian Buffer	Rehabilitation	Engage volunteers in the removal of invasive non-	Riparian		0.02

Conservation		native plants and restoration of riparian buffers along 1,000 linear feet of Valley Creek in Valley Forge National Historical Park, Pennsylvania.			
Willingboro Lakes Nature Preserve Streambank Restoration Phase 1	Enhancement	Streambank restoration of two areas in the Willingboro Lakes Nature Preserve.	Riparian		0.01
Wissahickon Valley (PA) Forest Conservation	Rehabilitation	Restore forest and riparian habitats on several nature preserves along Wissahickon Creek in southeastern Pennsylvania. Invasive exotic plants will be removed and native plants planted on 1,400 feet of forest edge and 400 feet of riparian area.	Riparian	0.20	0.08
Wooden Bridge Run Habitat Restoration Project	Enhancement	The project collected baseline environmental data, invasive species were then removed and native vegetation plan. A stream channel cleanup of Wooden Bridge Run was also done.	Riparian	1.00	
Total				1,807.93	0.84

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