

## Appendix C- Terrestrial and Aquatic Wildlife Species in the Middle Delaware River Study Area

The following lists of terrestrial and aquatic wildlife species are drawn from the Lower Delaware River Management Plan <sup>1</sup> and the Lehigh and Northampton Counties Natural Areas Inventory.<sup>2</sup>

### Delaware River Corridor

Rare species found within the non-tidal river corridor include the Yellow lamp mussel, Ohio spiderwort, and occasional plants of Prostrate sand cherry. The Cobblestone tiger beetle has been found in the past at several locations. Birds of special concern in Bucks County, which use the river corridor regularly, include Black vultures, Osprey, Peregrine falcons, and Bald Eagles.

#### “Exceptional Natural Feature”

The Delaware River and its adjacent forested watersheds comprise one to the major corridors for the movement of biota in eastern P.A. This includes habitat for resident species, habitat required for migrating birds on a biannual basis, habitat for resident and migratory aquatic animals, habitat needed for the long-term survival of plant species and more.

### Vegetation

Atlantic Sedge,  
Bicknell’s Sedge,  
Brook Lobelia,  
Common Hop Tree,  
Eastern White Water-Crow,  
Ellisia/Aunt Lucy,  
Grass of Parnassus,  
Hoary Willow/Sage-leaved Willow,  
Northern Pondweed,  
Prickley-Pear Cactus,  
Roseroot Stonecrop,  
Sand Cherry,  
Small-flowered Crowfoot,

Spring Coral Root,  
White Heather Aster,  
Wood’s Sedge  
Whorled Nut-rush

Specific wildlife in Northampton County portions of study area:

*Easton Bluff*  
Sedge  
Norway maple  
tree of heaven  
privet  
Slippery elm  
hop-hornbeam  
basswood  
ninebark  
zigzag goldenrod  
wild columbine  
harebell  
purple cliff-brake

*Hexenkopf Wetlands:*  
sedges  
sweetflag

*Island Park – Easton*  
sycamore  
black walnut  
river birch  
box elder  
hickory  
red oak  
spicebush  
black-haw  
silky dogwood  
Potential for re-colonization of osprey  
and bald eagle

*Old Sow Island and Whippoorwill Island*  
sycamore  
ash  
sandbar willow  
sneezeweed  
frost grape  
big bluestem  
poison ivy

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<sup>1</sup> Lower Delaware Wild and Scenic River Study Task Force with assistance from the National Park Service, Northeast Field Office. 1997. Lower Delaware River Management Plan.

<sup>2</sup> The Nature Conservancy. 1999. Lehigh and Northampton Counties Natural Areas Inventory.

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*Mariton Slopes*

red oak  
chestnut oak  
sweet birch  
red maple  
hemlock  
Rhododendron  
tulip poplar

*Mariton Uplands*

goldenrod  
aster

*Raub's Island*

sycamore  
ash  
poison ivy  
frost grape  
soapwort

*Hexenkopf Slopes*

tulip poplar  
sweet birch  
oaks  
hickories  
witch hazel  
spicebush  
black vultures  
turkey vultures

**Invasive and Exotic Species**

Purple loosestrife  
Multiflora rose  
Lesser celandine  
soapwort  
crown-vetch  
Cypress-spurge

**Fisheries**

The Middle Delaware River supports a wide diversity of anadromous and resident fish populations that are important commercially, recreationally and ecologically. Species include:

**Migratory**

American shad

Striped bass  
River herring

**Resident Species**

small mouth bass,  
channel catfish,  
walleye pike,  
hybrid muskellunge,  
white catfish,  
bullhead,  
white perch,  
sunfish,  
suckers  
eels  
Creek chub  
White sucker,  
Blacknose dace  
Longnose dace  
Fallfish

The federally listed endangered *Shortnose Sturgeon* is concentrated in the estuary between Philadelphia and Trenton and is known to spawn in the Yardley and Lambertville areas.

Coldwater fisheries are supported in numerous creeks entering the river in the Middle Delaware River Watershed area. Many of the creeks are stocked with trout and accessible to the public.

**Wildlife**

**Amphibians/Reptiles**

Bog turtle  
New Jersey chorus frog  
Eastern mud turtle  
Red-bellied turtle.  
Wood turtle  
Eastern box turtle  
Snapping turtle  
Copperhead snake  
Eastern ring snake  
Water snake  
Milk snake

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Garter snake.

**Mammals**

***Abundant and Common***

Raccoon  
Opossum  
Cottontail rabbit  
Groundhog  
Striped skunk  
Chipmunk  
Grey squirrel  
Red fox  
Muskrats  
Beaver  
Virginia white-tailed deer

***Uncommon***

Red squirrels and flying squirrels  
weasel  
ermine  
mink  
Grey fox.  
River Otter  
Coyotes - occasional  
Bobcat (historic).

Four endangered, threatened or rare bat species inhabit parts of Upper Bucks (PA) and Hunterdon (NJ) counties in the river corridor vicinity:

Keen's bat,  
Small-footed bat,  
Northern Long-eared bat  
Indiana bat.

The Durham Bat Mine hibernaculum, located in Cooks Creek, adjacent to the middle Delaware River planning area has recently been designated as a State Important Mammal Area.

**Fauna (Bird life)**

The following information on resident and migratory birds was obtained from the Bowman's Hill Wildflower Preserve:

Waterfowl

Great Blue Heron  
Green Heron  
Canada Goose  
Wood Duck  
Mallard  
Vultures, Hawks and Falcons  
Black Vulture  
Turkey Vulture  
Osprey  
Sharp-shinned Hawk  
Cooper's Hawk  
Red Shouldered Hawk  
Broad-winged Hawk  
Red-tailed Hawk  
American Kestrel

Gallinaceous Birds

Ring-necked Pheasant  
Ruffed Grouse  
Wild Turkey

Shorebirds, Gulls and Alcids

American Woodcock  
Ring-billed Gull  
Herring

Doves, Cuckoos, Owls and Goatsuckers

Mourning Dove  
Black-billed Cuckoo  
Yellow-billed Cuckoo  
Screech Owl  
Great Horned Owl  
Saw-whet Owl  
Common Nighthawk  
Whip-poor-will

Swifts and Hummingbirds

Chimney Swift  
Ruby-throated Hummingbird

Kingfishers and Woodpeckers

Belted Kingfisher  
Red-bellied Woodpecker  
Downy Woodpecker  
Hairy Woodpecker  
Pileated Woodpecker  
Yellow-bellied Sapsucker

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Northern Flicker	Brown Thrasher
Tyrant Flycatchers	Waxwings and Starlings
Eastern Wood-Pewee	Cedar Waxwing
Yellow-bellied Flycatcher	European Starling
Acadian Flycatcher	
Willow Flycatcher	Vireos & Warblers
Least Flycatcher	White-eyed Vireo
Great Crested Flycatcher	Blue-headed Vireo
Eastern Phoebe	Yellow-throated Vireo
Eastern Kingbird	Warbling Vireo
	Red-eyed Vireo
Swallows, Jays & Crows	Blue-winged Warbler
Tree Swallow	Tennessee Warbler
Rough-winged swallow	Nashville Warbler
Cliff Swallow	Northern Parula Warbler
Barn Swallow	Yellow Warbler
Blue Jay	Chestnut-sided Warbler
American Crow	Magnolia Warbler
Fish Crow	Cape May Warbler
	Black-throated Blue Warbler
Chickadees, Titmice, & Nuthatches	Yellow-rumped Warbler
Black-capped Chickadee	Black-throated Green Warbler
Carolina Chickadee	Blackburnian Warbler
Tufted Titmouse	Yellow-throated Warbler
Red-breasted Nuthatch	Pine Warbler
White-breasted Nuthatch	Prairie Warbler
	Palm Warbler
Creepers, Wrens, Kinglets & Gnatcatchers	Bay-breasted Warbler
Brown Creeper	Blackpoll Warbler
Carolina Wren	Cerulean Warbler
House Wren	Black-and-white Warbler
Winter Wren	Prothonetary Warbler
Golden-crowned Kinglet	Worm-eating Warbler
Ruby-crowned Kinglet	Kentucky Warbler
Blue-gray Gnatcatcher	Hooded Warbler
	Wilson's Warbler
Thrushes & Mockingbirds	Canada Warbler
Eastern Bluebird	American Redstart
Veery Bluebird	Ovenbird
Gray-cheeked Thrush	Northern Waterthrush
Swainson's Thrush	Louisiana Waterthrush
Hermit Thrush	Common Yellowthroat
Wood Thrush	
American Robin	Tanagers, Grosbeaks & Sparrows
Gray Catbird	Summer Tanager
Northern Mockingbird	Scarlet Tanager
	Northern Cardinal

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- Rose-breasted Grosbeak
- Indigo Bunting
- Eastern Towhee
- American Tree Sparrow
- Chipping Sparrow
- Field Sparrow
- Fox Sparrow
- Song Sparrow
- Swamp Sparrow
- White-throated Sparrow
- White-crowned Sparrow
- Slate-colored Junco

Blackbirds and Orioles

- Red-winged Blackbird
- Rusty Blackbird
- Eastern Meadowlark
- Common Grackle
- Brown-headed Cowbird
- Orchard Oriole
- Baltimore Oriole

Winter Finches & Weaver Finches

- Pine Grosbeak
- Evening Grosbeak
- Purple Finch
- House Finch
- Red Crossbill
- White-winged Crossbill
- Pine Siskin
- American Goldfinch
- House Sparrow

Osprey (*Pandion haliaetus*) and Heron  
habitats