

Anacostia Watershed Society



Public Policy/Advocacy



River Restoration



Education



Outdoor Recreation

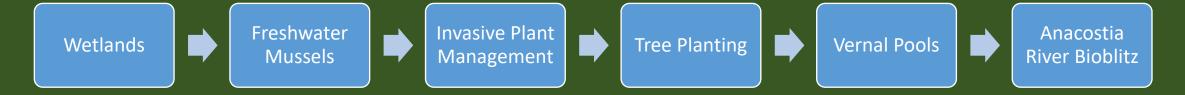






Anacostia Watershed Society









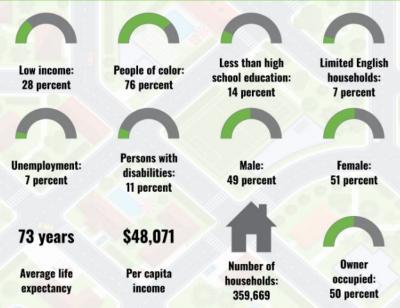
Anacostia River Watershed

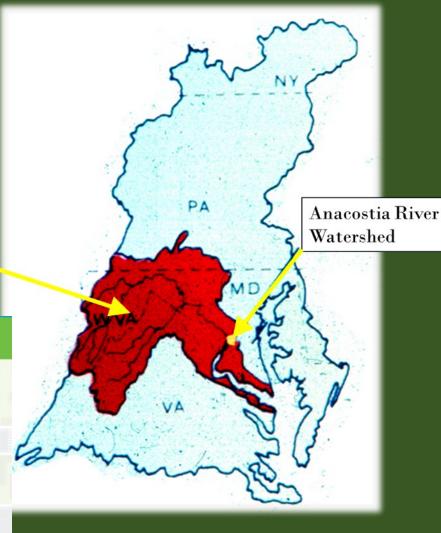


- 173 Sq. Mi.
- 1 million people
- Residential development: 45%
- Imperviousness: 23% (as much as 37% and 48%)
- Forest/parks cover: 30%

Potomac River Watershed

COMMUNITY INFORMATION













Fish: 62 spp (11 nonnative species)





Herpetofauna: 56 species (7 nonnative)

Biodiversity





Mammals: 35 species (3 nonnative) Birds: 260 species (4 nonnative)



State of the Anacostia River Report Card

2023 State of the Anacostia River (2022 Data Analysis)

	Parameter*1	Dissolved Oxygen	Fecal Bacteria	Secchi Disk Depth (Water Clarity)	Chlorophyll (a)	SAV ¹³	Stormwater Runoff Volume	Toxics	Trash	Average of % Score	Grade for section 2	%Score and Grade for the entire Anacostia
Section 1 (MD Anacostia)	% Score	81	43	47	83	% Score	% Score	% Score	% Score			
	Grade for each parameter ²	B-	F	F	В	16	34	62	66	54	F	% Score
	Long Term Trend	Improving	Sign of degradation	Improving	Improving							52
Section 2 (Upper DC Anacostia)	% Score	42	53	51	79	Grade	Grade	Grade	Grade			
	Grade for each parameter 2	F	F	F	C+	F	F	D-	D	51	F	
	Long Term Trend	Sign of improvement	Improving	Improving	Improving							Grade
Section 3 (Lower DC Anacostia)	% Score	43	62	52	83	Trend	Trend	Trend	Trend			
	Grade for each parameter ⁻²	F	D-	F	В	Needs attention	static	Improving	Improving	52	F	F
	Long Term Trend	Degrading	Needs attention	Improving	Improving							

^{*1} AWS scoring method used for Stormwater, Toxics and Trash. EcoCheck scoring method for all other parameters. (100% is best.)

For trend analysis, data sets from 1984 to 2022 were used.

^{*2} Standard school grading system (Below 60 = F)

^{*3} From 2017, AWS decided to use DOEE data since DOEE does survey on the ground and it is more accurate than VIMS data for SAV in the water of DC Note: 2022 Data sets were used for all parameters.

Aquatic Invasive Species

- Shipping/ballast water and other transportation
- Pet releases/ accidental escapees
- Trade: horticulture, aquaria, pets, etc.
- eCommerce





Red-eared Slider (*Trachemys scripta* ssp. *elegans*)

Resident Canada Geese

Currently under control









Wild Rice (Zizania aquatica) Populations at Kingman Lake (2024)



0.34
Condinate System WCS 1884 Walti Ventato Audieny Spread
Projection: Venctor Yue-Rory Spread
Teal em WSS 1894

Wild Rice 2024 (26 acres)

Trionychids (Softshell turtles)

First obs. In the Potomac River in 2003



Spiny Softshell (*Apalone spinifera*)

First obs. In the Anacostia River in 2020





Chinese Softshell Turtle (*Pelodiscus sinensis*)
Photo: @belyykit

Fishes



Northern Snakehead (Channa argus)



Common carp (Cyprinus carpio)



Goldfish (Carassius auratus)



Blue catfish (*Ictalurus furcatus*)



Channel catfish (*Ictalurus* punctatus)

Plants



Two-horned Trapa (*Trapa bispinosa*)
First obs. in 2022 in the watershed



Purple Loosestrife (*Lythrum salicaria*)



Yellow Iris (*Iris pseudacorus*)

Plants



Common Water Hyacinth (*Pontederia crassipes*) 2020



Water spangles (*Salvinia* minima) Photo: Jenny Glenn
Observed during the 6th
Anacostia River Bioblitz 2022



Curly-leaf pondweed (*Potamogeton crispus*)

Phragmites Control







Freshwater Mussels

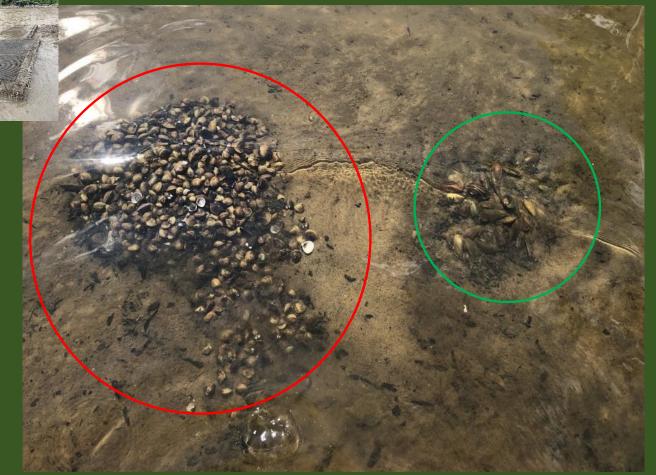
• Over 36,000 native freshwater mussels released in the Anacostia River





Invasive Mollusks





Asian clam (*Corbicula fluminea*) sensu lato (red circle)/ native hatchery-raised mussels of 3 species (green circle)

Invasive Mollusks



Japanese Mystery Snail (Heterogen japonica)/ Since the 1960's

 Virtually impossible to tell apart from Chinese Mystery Snail (Cipangopaludina sinensis) without DNA test

Invasive Crustaceans



Red swamp crayfish (*Procambarus clarkii*)



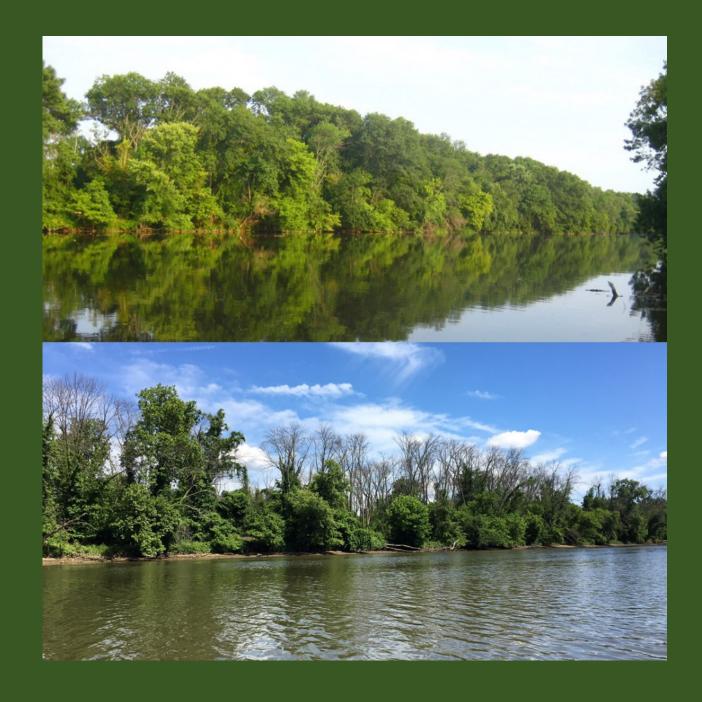
Virile crayfish (Faxonius virilis)

Emerald Ash Borer (EAB)

• Before 2012 (picture above), After 2017 (picture below).



Photo: Sam Droege, USGS Bee Inventory and Monitoring Lab (2016).





Reforestation in Riparian Areas Affected by Emerald Ash Borer



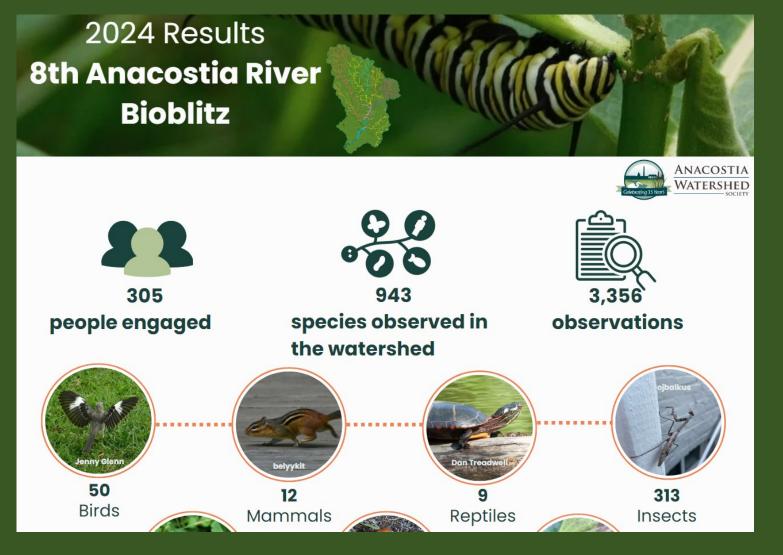


Reforestation in Riparian Areas Affected by Emerald Ash Borer (700+ trees planted)

- American hophornbeam (Ostrya virginiana) (FAC)*
- American sycamore (*Platanus occidentalis*) (FACW)
- Black willow (Salix nigra) (OBL)
- Pawpaw (Asimina triloba) (FAC)
- Pin oak (Quercus palustris) (FACW)
- River birch (*Betula nigra*) (FACW)
- Swamp chestnut oak (*Quercus michauxii*) (FACW)
- Swamp white oak (Quercus bicolor) (OBL)
- Sweetbay magnolia (Magnolia virginiana) (FACW)
- American Hornbeam (Carpinus caroliniana) (FAC)
- Tag Alder (*Alnus serrulata*) (FACW)
- Black gum (Nyssa sylvatica) (OBL)
- White oak (Quercus alba) (FACU)
- Willow oak (Quercus phellos) (FACW)
- Bald Cypress (Taxodium distichum) (OBL)



Anacostia River Bioblitz – Community Science





- Biodiversity of the Anacostia River (collection project)
- Annual Anacostia Bioblitz in the fall
- 355,000+ observations
- 9,500+ species
- 16,673 observers

Aquatic Invasive Species

- Legislation: inspections, decontamination, etc.
- Funding: NatCap PRISM/ early detection/rapid response
- More coordination
- Research: including eDNA
- Data: iNaturalist, etc.
- Public education (multilingual/ culturally competent)



Red swamp crayfish (*Procambarus clarkii*)



www.anacostiaws.org











