

The Wild & Scenic Rivers Act as Climate Adaptation Policy for Ecosystem Resilience



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BIODIVERSITY

Riparian forest



White-tailed eagle



Stonefly



River mussel



Danube Salmon



The 2013 *ANTIPODE* AAG Lecture

**The Environment Making State:
Territory, Nature, and Value**

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LEGIBILITY: SURVEYING, INVENTORYING, CATALOGING, MAKING POLICIES, MANAGING

Wild and Scenic Rivers Act Nuts and Bolts

- Survey, inventory, & catalog
- Free-flowing
- High quality or potential for restoration
- Outstandingly Remarkable Value (ORV)

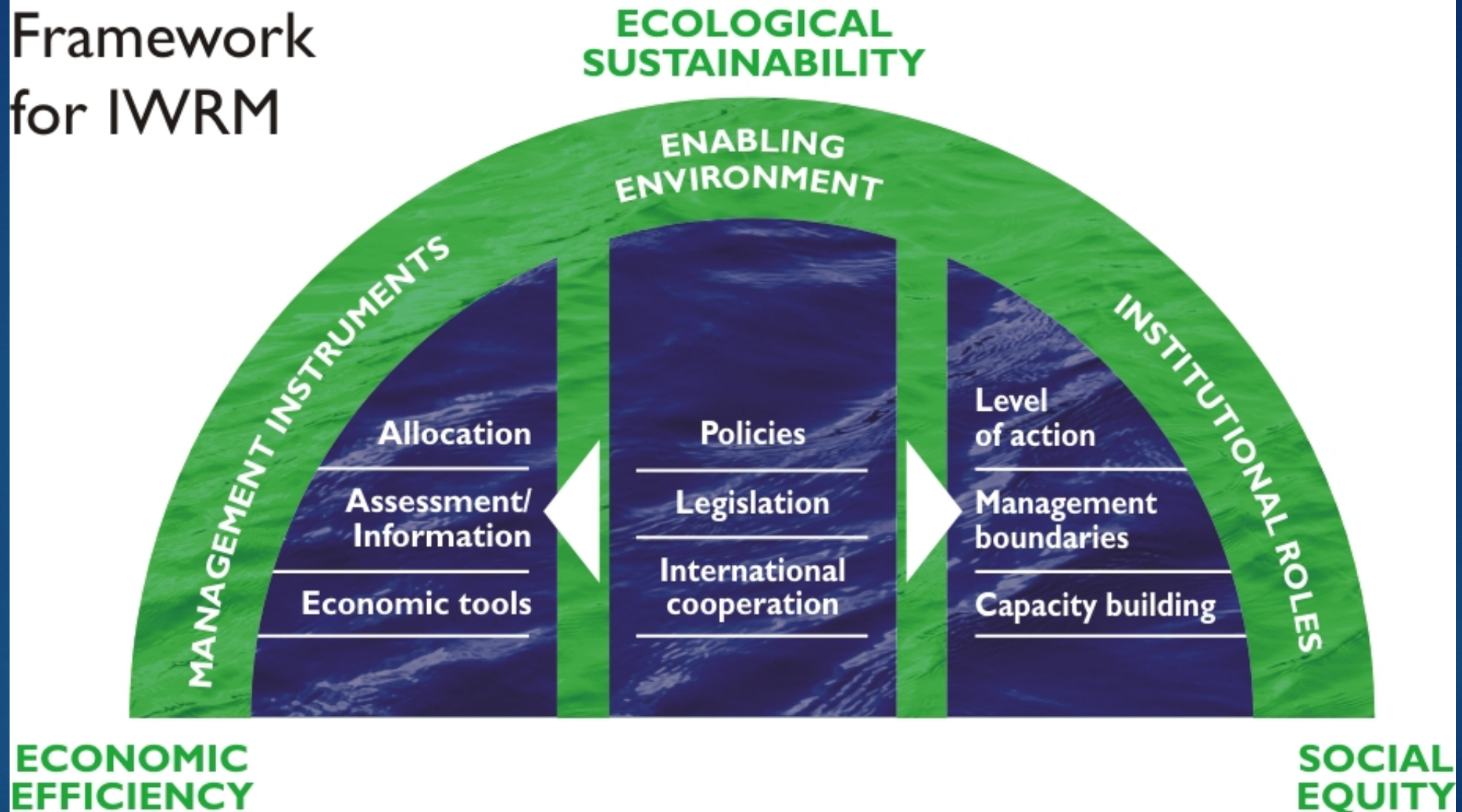


Scenic	Recreation	Geologic	Fish
Wildlife	Historic	Cultural	Other

- ¼ mile protected riparian zone
- Establish Nationwide Rivers Inventory (NRI)
- Section 7 review and NEPA requirements



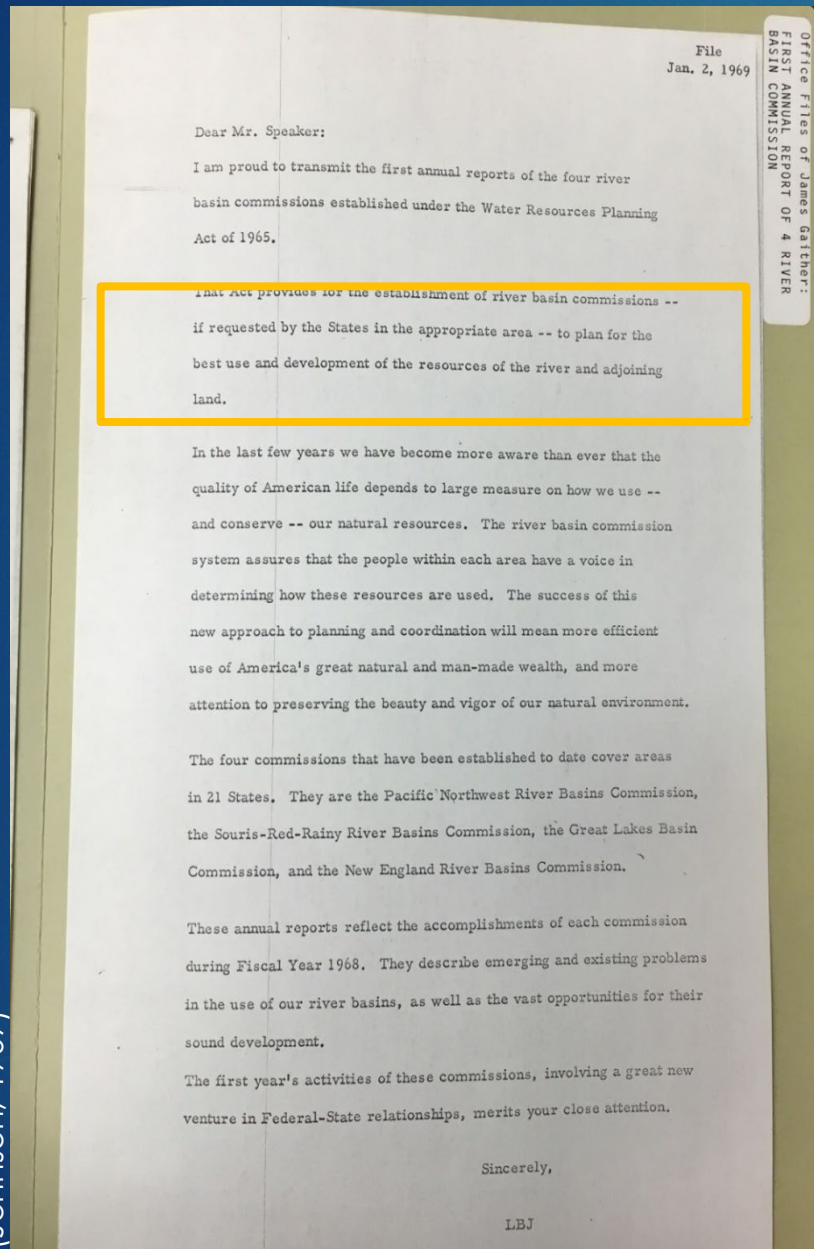
General Framework for IWRM



Perry, D.M. (In progress). "Bridging Resilience and Adaptation by Integrating Conservation Policy into Water Resource Management." *Sustainability*.

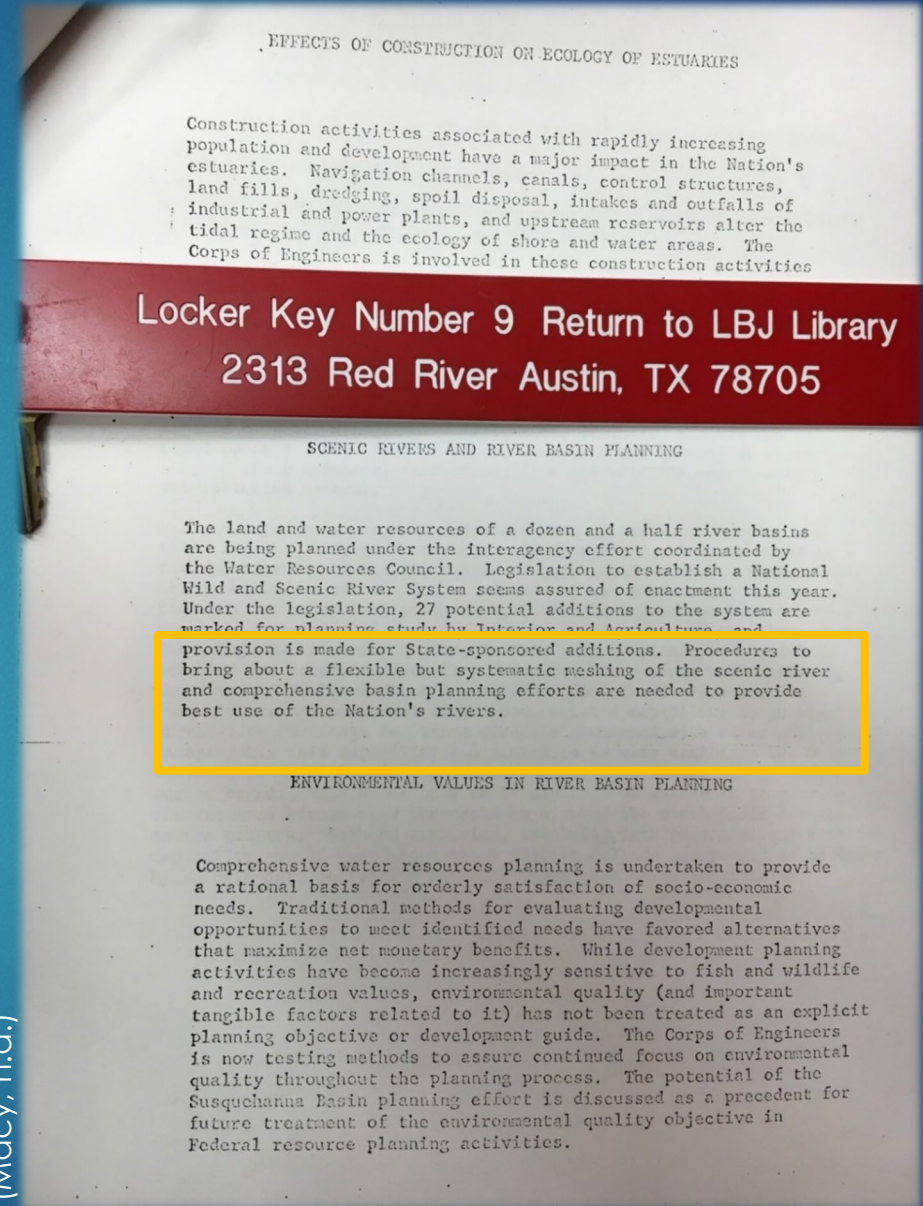
Water Resources Planning Act of 1965

(Johnson, 1969)



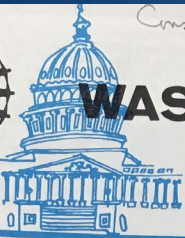
Wild and Scenic Rivers & River basin planning

(Macy, n.d.)



Authorities and Classifications

DESIGNATING AUTHORITY	ADMINISTERING AUTHORITY	CLASSIFICATION	TOTAL
Secretary of Interior Section 2(a)(ii)	States with NPS oversight	Wild, Scenic, Recreational, or any combination of these three	19
Congress Section 5(a)	Federal or partnership with state, local, tribal, and/or NGO entities		190



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"Ecology"—a strange new word, asks what are we doing to ourselves

"What," Mrs. McGillicuddy asks, "is ecology?"

"That," replied The Professor, "is a very good question."

Ecology is a new word we're going to hear more of until it comes running out of our ears.

It's a word like automation or cybernetics coined to explain modern ways and happenings. Ecology is here to stay. It's a real question, however, whether we, the human race, are here to stay. And that, Mrs. McGillicuddy, is what "ecology" is all about.

The fourth of the U.S. Department of Interior's provocative conservation yearbooks asks in the title: "Man—An Endangered Species?" It's a question we must all ask ourselves.

Air and water pollution control are such popular political issues these days that bills to improve the quality of air and water go breezing through Congress with rarely a dissenting vote or even the flicker of a conservative's eye. Of course, we still have plenty of foul air and dirty water to contend with—and it's going to be that way for some time despite strong laws to combat pollution. The rub is often lack of money to pay for what science can do to undo damage science did in the first place. That, and government foot-dragging.

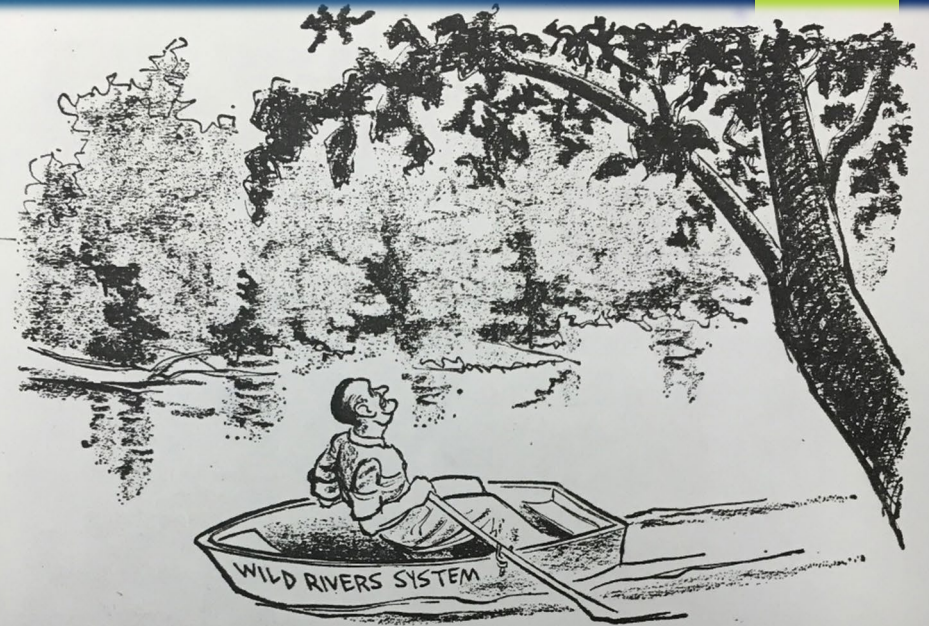
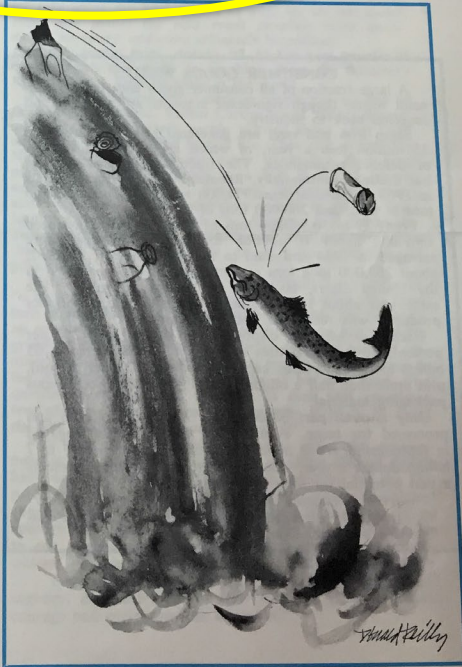
But pollution itself is merely a symptom of deeper, much more complex and serious trouble which most of us are just now waking up to.

Ecology is more than dirty air and water.

Boiled down to some over-simplified language, "ecology" is what we do to our surroundings, our environment, in so many, many ways.

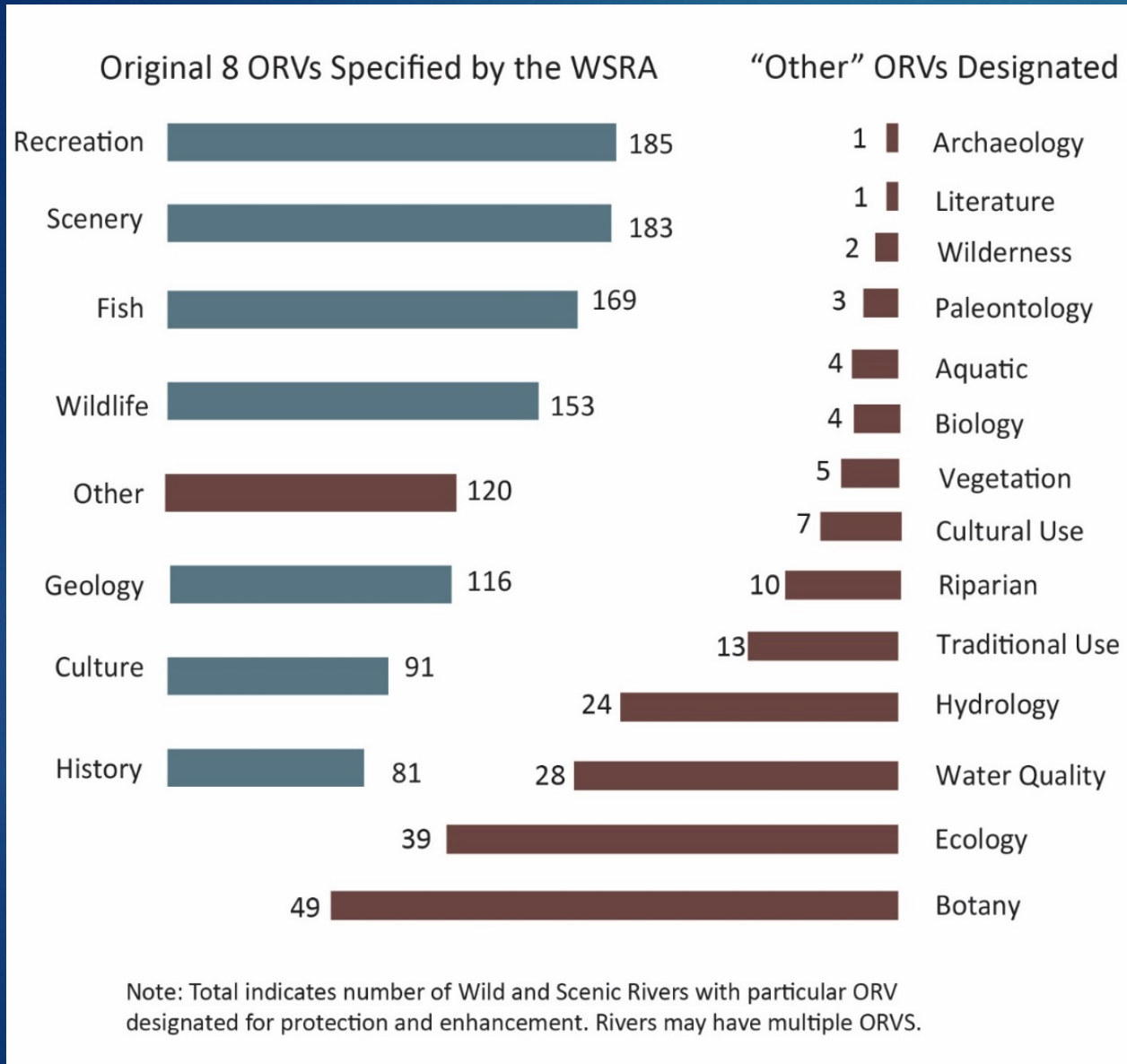
It's what we once did to ourselves when we exploded nuclear bombs that rained down strontium 90 that contaminated our milk and damaged the genes of future generations of people.

(Continued on page 2)



'ROW, ROW, ROW YOUR BOAT GENTLY DOWN THE STREAM . . .'

Total Rivers Designated per ORV



The adjectives Wild and Scenic Outstandingly Remarkable Values just don't get politicians on your side (IV11, 2016).

Scenery/ Botany/Vegetation



Water quality



Traditional use



Recreation



Archeology



Wildlife



Fish



Geology

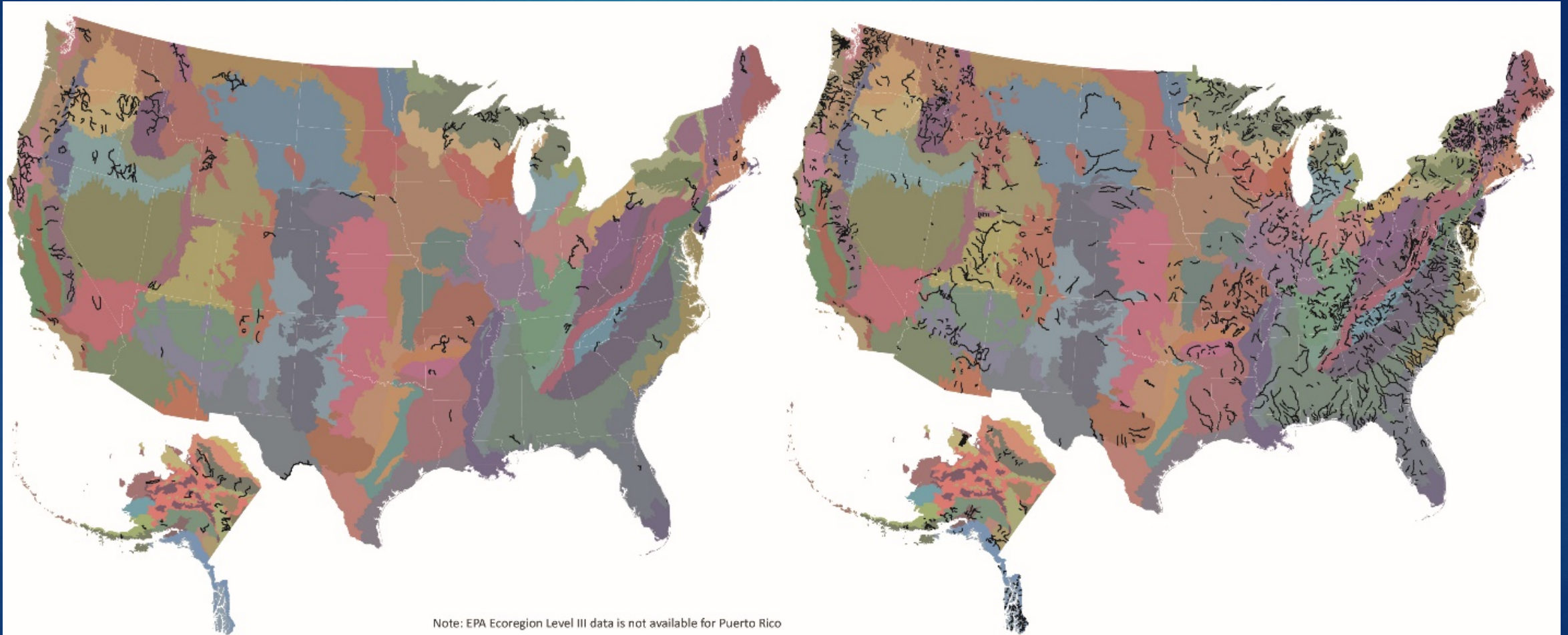


Biodiversity



	PROVISIONING	REGULATING	SUPPORTING	CULTURAL
SERVICE	Food, Fresh Water, Fiber and Fuel, Biochemical products, Genetic materials	Climate Regulation, Hydrological regimes, Pollution control and detoxification, Erosion protection, Natural Hazards	Biodiversity, Soil formation, Nutrient cycling, Pollination	Spiritual and inspirational, Recreational, Aesthetic, Educational
ORVS	Fish, Wildlife, Riparian, Biology, Hydrology, Botany, Ecology, Traditional Use, Water Quality, Vegetation, Aquatic, Wilderness	Geology, Riparian, Biology, Hydrology, Botany, Ecology, Water Quality, Riparian, Vegetation, Aquatic, Wilderness	Fish, Geology, Riparian, Biology, Hydrology, Botany, Ecology, Riparian, Water Quality, Vegetation, Aquatic, Wilderness	Cultural, Fish, Geology, History, Recreation, Scenery, Wildlife, Riparian, Biology, Hydrology, Botany, Ecology, Traditional & Cultural Uses, Water Quality, Aquatic, Paleontology, Vegetation, Wilderness, Literature, Archeology
BENEFITS	<u>Food security</u> , national security, resource management, <u>public health</u> , economic security, <u>resilience</u> , sustainability	<u>Natural infrastructure</u> , resilience, <u>flood mitigation</u> , <u>drought mitigation</u> , public health, national security	Food security, <u>climate refugia</u> , resilience, <u>sustainability</u> , flood recession agriculture	Tourism industry, <u>cultural renewal</u> , mental health, <u>scientific study</u> , <u>economic diversity</u>

(Perry, 2017)



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Thank you ~ Gracias



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