

Wild & Scenic River Lessons for Applications Abroad

DR. DENIELLE PERRY, NORTHERN ARIZONA UNIVERSITY

## **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





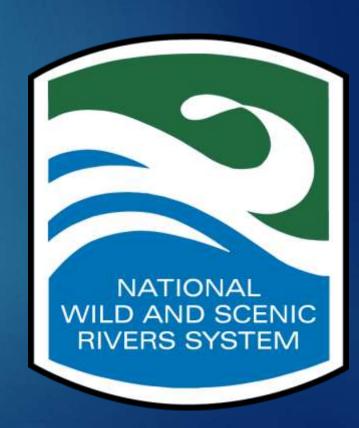




- Free-flowing
- High quality or potential for restoration
- Outstandingly Remarkable Value (ORV)

Scenic	Recreation	Geologic	Fish
Wildlife	Historic	Cultural	Other

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





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

#### Water Resources Planning Act of 1965

Door Mr. Speakers I am proud to transmit the first annual reports of the four riverhasin commissions setublished under the Water Resources Planning Am of 1965. your our provious are the establishment of sever harin commissions or if requested by the States in the appropriate area ++ to plan for the best use and development of the resources of the river and adjoining land. In the last few years we have become more awars than ever that the quality of American life depends to large measure on how we use += and concervs -- our natural resources. The river hasin commission system assures that the people within each area have a rules in determining how these resources are used. The success of this new approach to planning and excedination will mean more officient nee of America's great natural and man-made wealth, and mare attention to preserving the beauty and vigor of our asterni environment. The four commissions that have been established to dose saver arms in Il States. They are the Punish Northwest River Basine Commission. the Souris-Red-Rainy River Busine Commission, the Grant Lakes Basin Commission, and the New England River Busine Commission. These animal reports reflect the accompilationers of such occumission. during Flocal Year 1968. They desured amerging and estelling problems in the use of our river hasins, as well as the vast opportunities for their sauad davalopment. The first year's activities of these commissions, involving a great new venture in Federal-State relationships, marits your class intention.

### Wild and Scenic Rivers & River basin planning

THEELE OF CONSTRUCTION ON ECOPOCA OR ENTABLES

Construction activities associated with rapidly increasing population and development have a major impact in the Bation's estuaries. Eavigation channels, canals, control structures, land fills, droiging, spoil disposal, intakes and outfalls of industrial and power plants, and spatrams reservoirs elter the tidal regime and the ecology of shore and water areas. The Corps of Engineers is involved in these construction activities

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SCENEC REVERS AND REVER BASEN PLANNING

The land and water resources of a donen and a half river basins are being planned under the interagency effort coordinated by the Water Resources Council. Legislation to establish a Mational Wild and Scenic River System comes assured of enactment this year. Under the legislation, 27 potential additions to the system are warked for planning study by Interior and including and

provision is made for State-spensored additions. Procedures to bring about a floxible but systematic modeling of the scenic river and comprehensive basin planning efforts are needed to provide best use of the Matten's rivers.

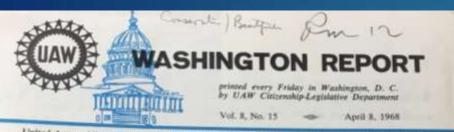
ENVISORMENTAL VALUES IN RIVER BASIN PLANNING

Comprehensive water resources planning is undertaken to provide a rational basis for orderly satisfaction of socio-communic needs. Traditional methods for evaluating developmental opportunities to user identified needs have favored alternatives that maximize not menetary benefits. While development planning activities have became increasingly sometive to fith and vibility and recreation values, onvironmental quality (and important tangible factors related to it) has not been treated us an explicit planning objective or development guide. The Corps of Engineers is now testing methods to essure continued focus on environmental quality throughout the planning process. The potential of the funguenhams from planning effort is discussed as a precedent for future treatment of the environmental quality chipotive in Federal resource planning activities.

(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,	19
Congress Section5(a)	Federal or partnership with state, local, tribal, and/or NGO entities	Recreational, or any combination of these three	190



United Automobile, Aerospace, and Agricultural Implement Workers of America, UAW, AFL-CIO

# "Ecology"--a strange new word, asks what are we doing to

"That," replied The Pro. wor, "is a very good Ourselves question."

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

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 poing 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 dumage science did in the

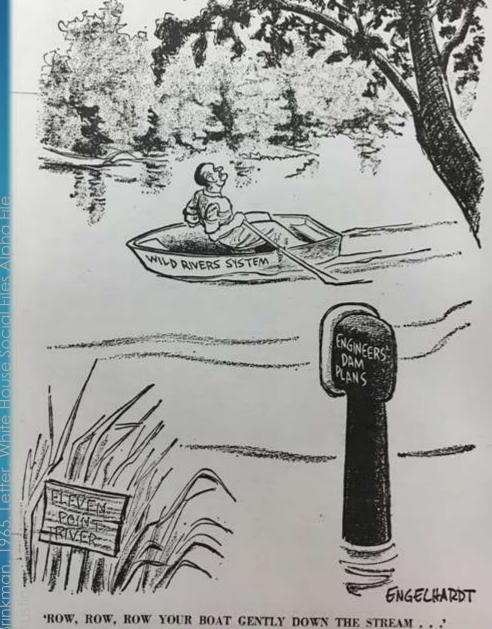
first place. That, and government foot-dragging. But pollution itself is merely a symptom of deeper, much more complex and serious trouble which most of us are just now waking up to.

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.

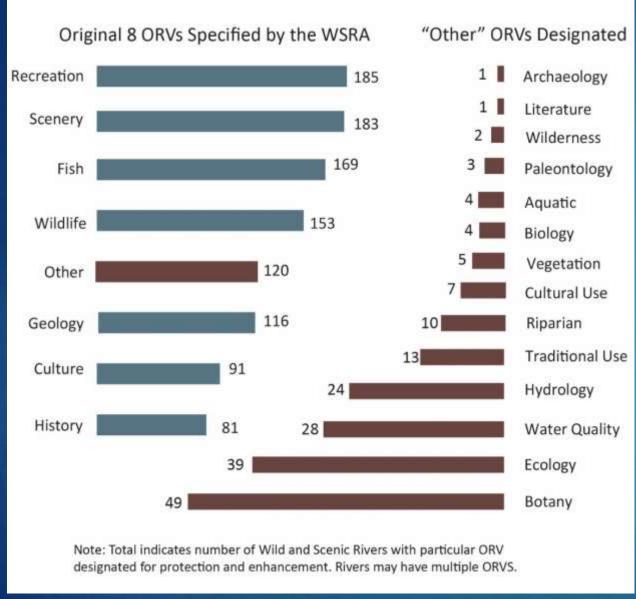
It's what we once did to ourselves when we exploded nuclear bonshs that rained down strontium 90 that contaminated our milk and damaged the genes of future generations of people (contamed on page 2).





Brinkman, 1965, Letter, White

### Total Rivers Designated per ORV



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

Perry, D. (2017). Reframing the Wild and Scenic Rivers Act: Ecosystem-based Resilience and Adaptation. International Journal of Wilderness, 23(2), 41–48.

Scenery/ Botany/Vegetation

Recreation



Fish



Water quality



Archeology



Geology



Traditional use



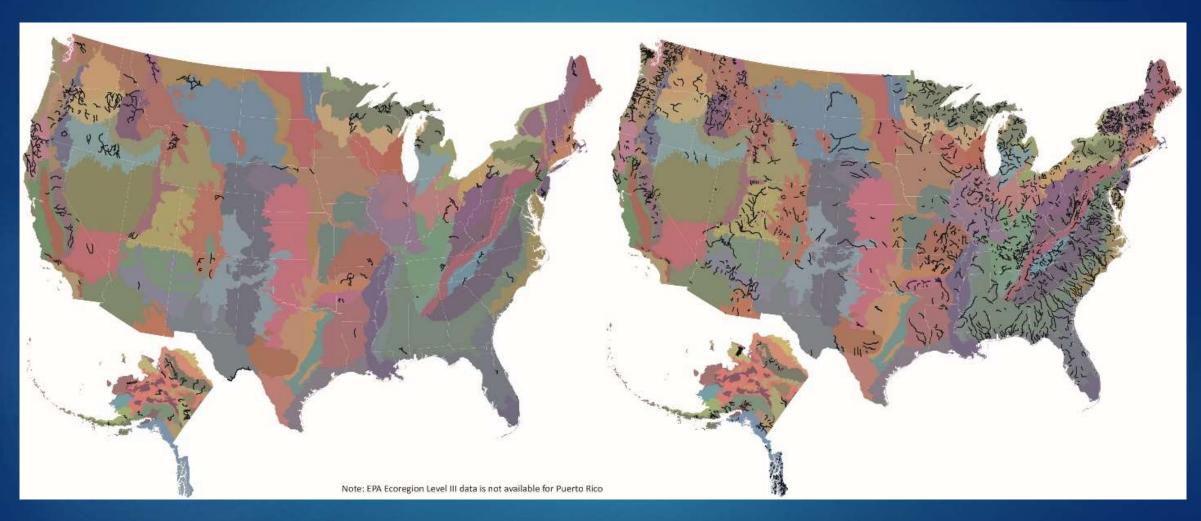
Wildlife



Biodiversity

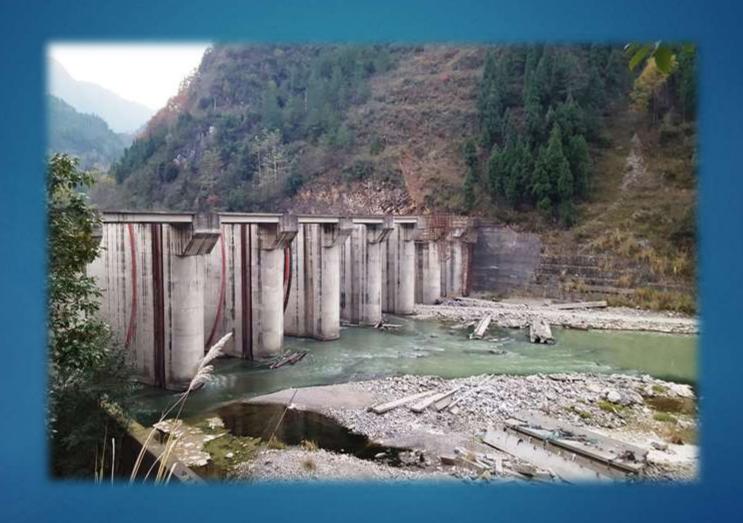


	PROVISIONING	REGULATING	SUPPORTING	CULTURAL
SERVICE	Food, Fresh Water, Fiber and Fuel, Biochemical products, Genetic materials	Climate Regulation, Hydrological regimes, Pollution control and detoxification, Erosion protection, Natural Hazards	Biodiversity, Soil formation, Nutrient cycling, Pollination	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	Food security, national security, resource management, public health, economic security, resilience, sustainability	Natural infrastructure, resilience, flood mitigation, drought mitigation, public health, national security	Food security, climate refugia, resilience, sustainability, flood recession agriculture	Tourism industry, <u>cultural</u> <u>renewal</u> , mental health, <u>scientific study, economic</u> <u>diversity</u> (Perry, 2017)



Perry, D. (2017). Reframing the Wild and Scenic Rivers Act: Ecosystem-based Resilience and Adaptation. *International Journal of Wilderness*, 23(2), 41–48.

## National Protected Rivers System Case Study Qingzhu Jian "Bamboo River" – Sichuan Province



## Chinese Giant Salamander (Andrias davidianus) "Infant Fish" (娃娃鱼/鲵)

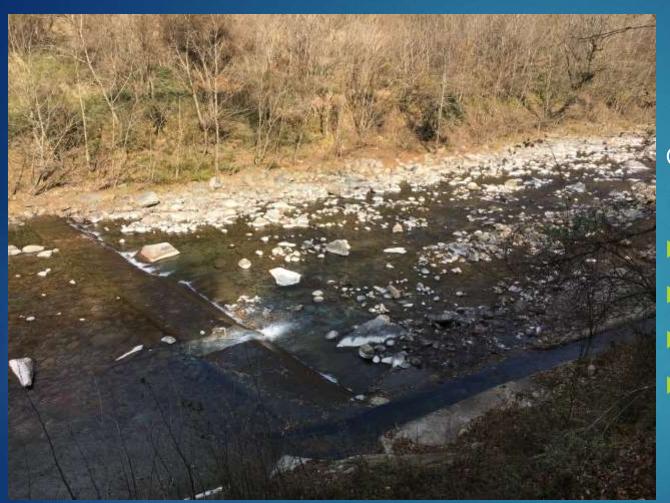








Perry, D.M. (In progress). "Dragons, Dams, and Dinosaurs: the Evolution of China's River Principles & Policies." Geoforum.



Critiques National Protected River System

- Few free-flowing rivers
- Lack of will
- Distrust of central government
- Lack of inter-provincial coordination

# Integrated Electricity System of Central American Countries (SIEPAC)



Regional Infrastructure Integration in South America (IIRSA)



Perry, D.M. and Berry. K A. (2016). "Central American integration through infrastructure development: a case study of Costa Rican hydropower" Regions and Cohesion, 6(1).





# Río Pacuare,





Plebiscite, 2005



## President Decree, 2015



Perry, D.M. (In progress) "Hydropower Capital and Policy Matters: the nexus of climate change, energy development, and conservation in Costa Rica's Rio Pacuare." Journal of Latin American Geography.





#### **JOIN THIS UNIQUE EVENT:**

3 DAYS FOR ACTIVISTS, NGOS, EXPERTS, FISHERMEN AND OTHER RIVER LOVERS.

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September 27-29, 2018

Sarajevo. Bosnia-Herzegovina Special event on 29th: open-air concert for the Blue Heart of Europe

#### SAVE THE DATE

AND SHARE THIS INFORMATION.
MORE DETAILS WILL FOLLOW SOON.

www.balkanrivers.net

Contact: jelena.ivanic@czzs.org













# Thank you - Xie xie - Gracias



















# Thank you ~ Gracias

















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