

Welcome to a Celebration of Environmental Economics and the 50th Anniversary of the Clean Water Act!

Organizing Committee: Cathy Kling, Chris Moore, Dan Phaneuf, Dave Keiser, Joel Corona, Mainul Hoque, and Tina Andarge

Travel Coordinator and Onsite Fixer-of-Problems: Joey Gates

Logistics: Breakfast and Lunch available both days to all attendees
Dinner on your own

**The Clean Water Act at 50: Celebrating
the Role of EPA Environmental
Economists in Policy**

Motivation and Goals

Clean Water Act 1972 and Reagan Executive Order **12291**

- **Regulatory action shall not be undertaken unless the potential benefits to society from the regulation outweigh the potential costs to society;**
- **Regulatory objectives shall be chosen to maximize the net benefits to society;**

Economists at EPA and those working with them led and enabled the development of needed nonmarket valuation methods to support regulatory and policy decisions

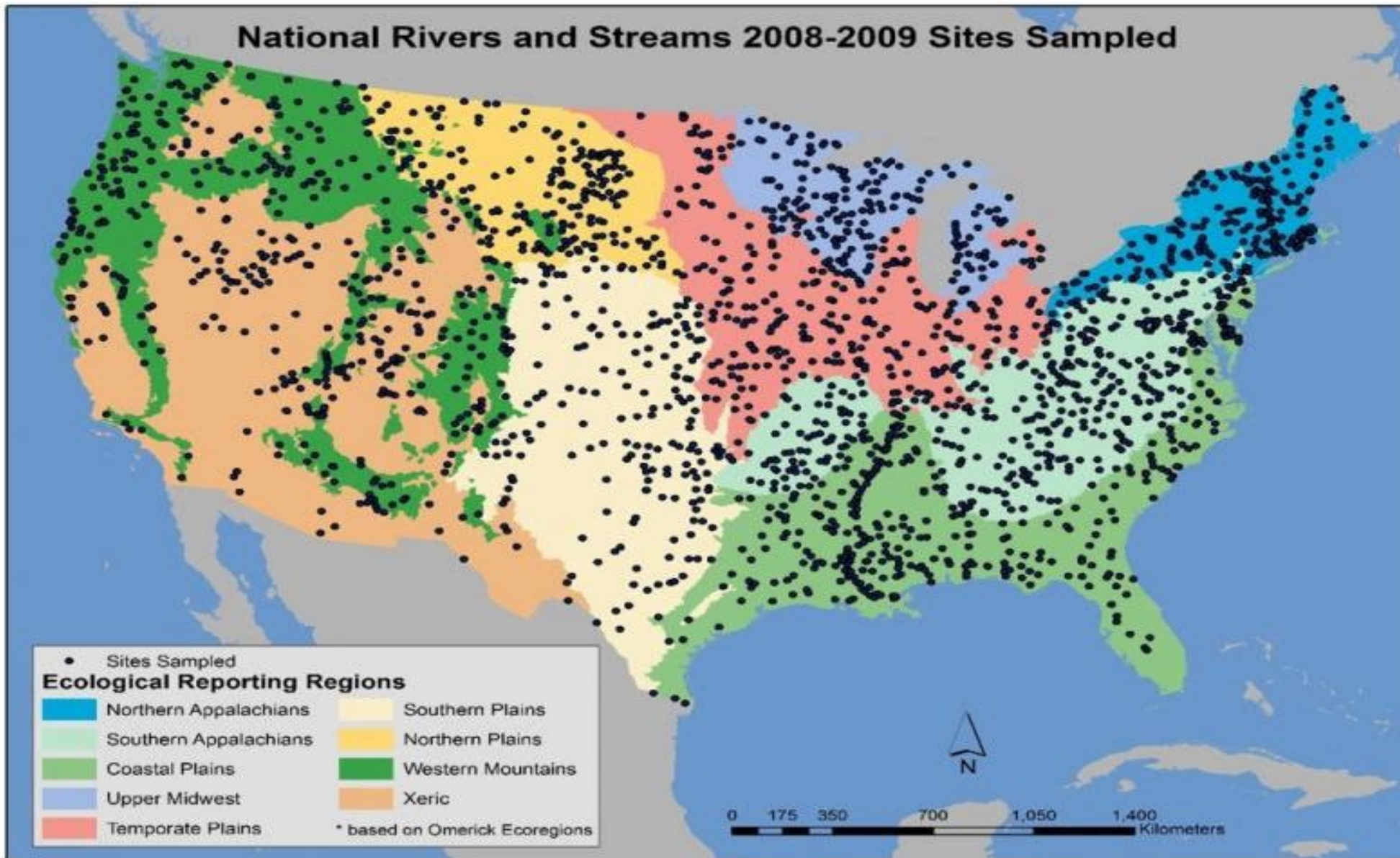
Today: celebrate EPA's historical and continuing leadership role in the evolution of nonmarket valuation methods, especially stated preference (SP), from their nascent beginnings to mature tools

9:30-10:30 a.m.	<p style="text-align: center;">Welcome and Introduction</p> <p>Maureen Cropper: Historical Perspective on NMV and SP in Policy Analysis Al McGartland: Role of Benefit-cost Analysis and Why NMV and SP Methods Are Needed</p>
10:30-10:45 a.m.	<p style="text-align: center;">Break</p>
10:45-11:45 a.m.	<p style="text-align: center;">Panel: Historical Perspective, Challenges, and Opportunities for the Future <i>(Moderator: Daniel Phaneuf)</i></p> <p>Richard Carson: Regulatory Analysis; <i>From E.O. 12291 to Today</i> Daniel Phaneuf: From Exxon to BP: Status and Developments in Stated Preference Validity Chris Moore: Challenges in Implementation and Potential Ways Forward</p>
Noon-1:00 p..	<p style="text-align: center;">Lunch (Moderator: Tihitina Andarge)</p> <p>Sally Katzen: A Legal and Regulatory Perspective on the Role of Nonmarket Valuation and Stated Preference Approaches in Benefit Cost Analysis and Regulatory Review</p>

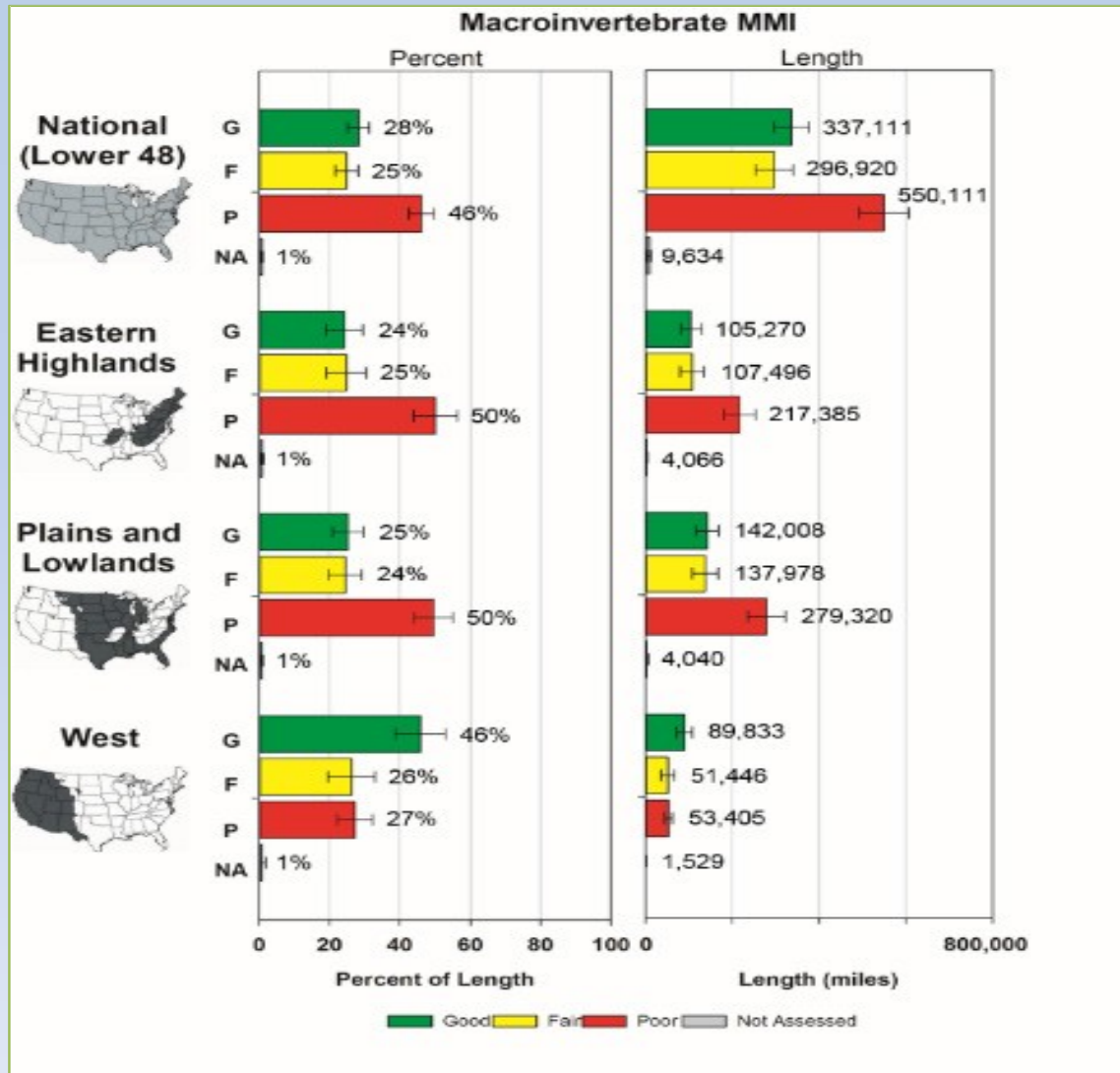
Clean Water Act Turns 50!

**How are things
going????**

EPA: National Aquatic Resource Surveys

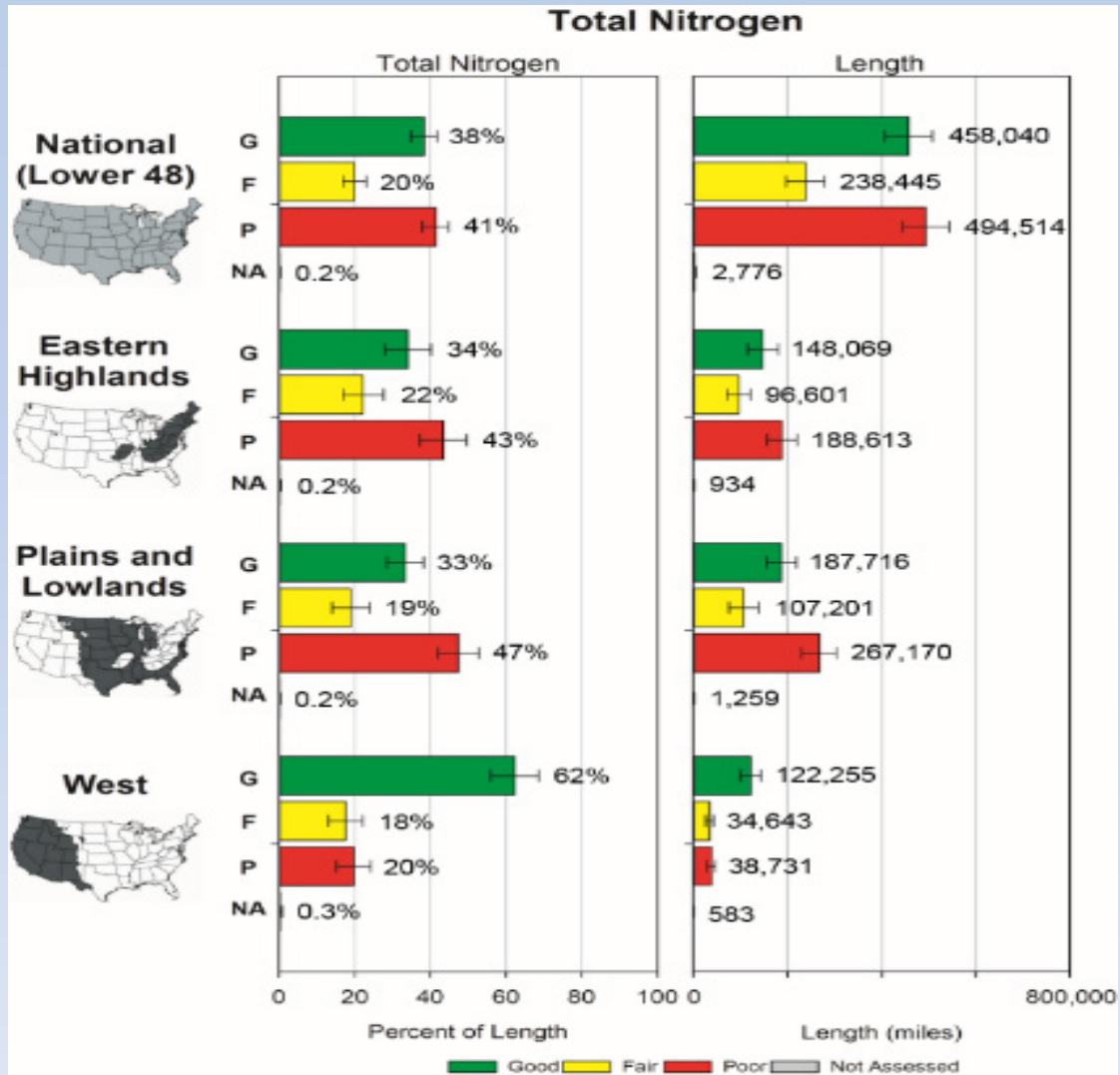


Benthic Macroinvertebrates MMI



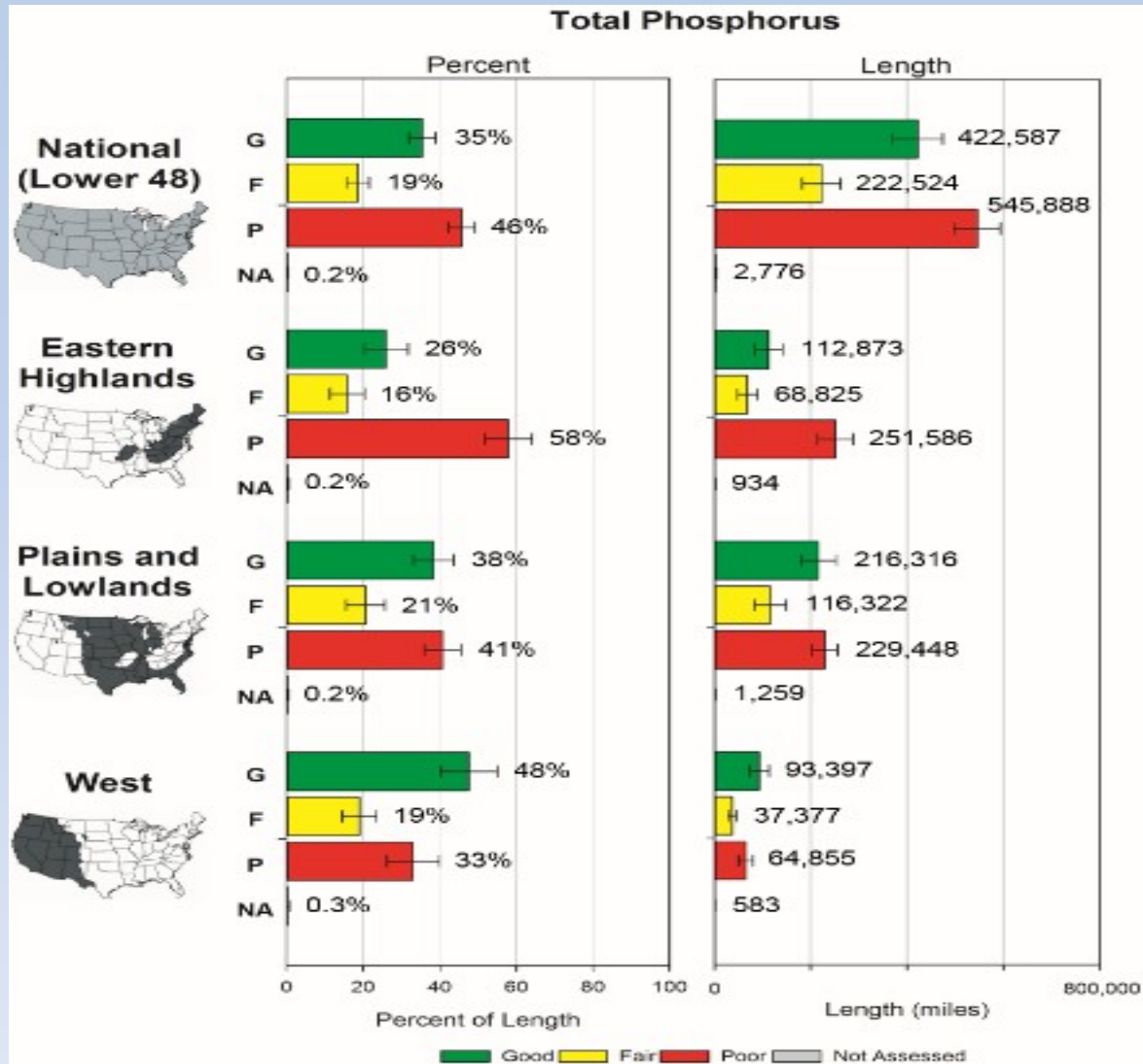
- 46% of river/stream miles are rated poor for biology
- Only 28% rated good

Total Nitrogen



- Nationally, 41% of river/stream miles are rated poor for total nitrogen
- 38% rated good

Total Phosphorous



- Nationally, 46% of river/stream miles are rated poor for total phosphorus
- Only 35% good

Have Existing Regulations Passed a BCA Test? Would Additional Ones?

Water Quality Benefits STAR grants, January 2015 PREAMBLE:

“One limitation of previous water quality benefit estimates is that they have included a narrow range of water benefits and values. This is problematic for states and local governments because excluding benefits leads to potential underestimation of total benefits.”

EPA Call for More Information

“... research to advance knowledge of how changes in water quality, including incremental or step improvements, can be valued at appropriate spatial scales using advanced non-use valuation methods for the Nation’s inland fresh water small streams, lakes and rivers, estuaries, coastal waters, and the Great Lakes.”

1:10-2:25 p.m.	<p align="center">Highlights of New Research on the Value of Water Quality Improvements (<i>Moderator: David Keiser</i>)</p> <p>“Measuring the Social Benefits of Water Quality Improvements to Support Regulatory Objectives” Julie Hewitt “Spatial Dimensions of Water Quality Value in New England River Networks” Robert J. Johnston “Disentangling Water Quality Indices to Enhance the Valuation of Divergent Ecosystem Services” Frank Lupi</p>
2:25-2:35 p.m.	<p align="center">Break</p>
2:35-3:50 p.m.	<p align="center">Highlights of New Research on the Value of Water Quality Improvements (<i>Moderator: Mainul Hoque</i>)</p> <p>“Estimating the Benefits of Stream Water Quality Improvements in Urbanizing Watersheds” Roger von Haefen “Valuing Improvements in Ecological Integrity in Local and Regional Watersheds” Christian Vossler “Improving models of biological condition to support existence valuation of freshwater ecosystems” Ryan Hill</p>
3:50-4:00 p.m.	<p align="center">Break</p>
4:00-5:15 p.m.	<p align="center">Invited Perspectives and Discussion (<i>Moderator: Cathy Kling</i>)</p> <p align="center">Ian Bateman, Bonnie Keeler, Sheila Olmstead, and John Whitehead</p>