

## Steven Stewart

SAHRA – Sustainability of semi-Arid Hydrology and Riparian Areas  
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### Education

Ph.D.           **Environmental and Natural Resource Economics, University of New Mexico, Aug 1998.**  
B.A.            Business Administration, University of New Mexico, May 1991

### Experience

**Jan 2003–Present**       **Research Scientist**, University of Arizona, Hydrology and Water Resources  
**Aug 2003–Present**       **Lecturer**, University of Arizona, Agricultural and Resource Economics  
**Aug 1998–Dec 2002**     **Assistant Professor of Economics**, University of Tennessee, College of Business

### Journal Articles, Book Chapters, Professional Reports

“Measuring Recreational Impacts of Endangered Species Protection with the RIOFISH Model” (with Christian Schmidt) 1998. *Rivers* 6(3): 171-182.

“Avoiding Severe Environmental Consequences: Evidence on the Role of Loss Avoidance and Risk Attitudes” (with Paul Brown) 1999. *Journal of Economic Behavior and Organization* 38(2): 179-98.

“Buying Insurance for Disaster-type Risks: Experimental Evidence” (with Philip Ganderton, David S. Brookshire, Michael McKee, and Hale Thurston) 2000. *Journal of Risk and Uncertainty* 20(3): 271-289.

“Parallelism in the Lab and the Field: Testing the Robustness of the Minimum Contributing Set Mechanism” (with Michael McKee, Robert Berrens, Alok Bohara and David Brookshire) 2000. *Pacific Economic Review* 5(3): 429-446.

“Water Markets in the Southwest: Why and Where?” (with Brookshire, Ganderton, Ewers, and Colby). *Southwest Hydrology* 3:2 March/April 2004.

“Unraveling the Implications for Property Rights to Genetic Information: The Anti-Commons” (with Dave Bjornstad). Revise and resubmit to *Economic Inquiry*.

“Mechanism Effects and the Contingent Valuation Method: A Learning Design Incorporating Economic Experiments” (with Hale Thurston, David Brookshire, Bob Berrens, Alok Bohara, Philip Ganderton, Hank Jenkins-Smith, Mike McKee, and Carol Silva). Revise and resubmit to *Environmental and Resource Economics*.

"Valuing the Contribution of Scenic Quality to Recreational Experiences: A Case Study in the Southern Appalachian Region" (with Leah Greden Matthews and Susan Kask). Revise and resubmit to *Ecological Economics*.

“Stated Preference Approaches to the Measurement of Biodiversity” (with Jim Kahn and Robert O'Neill). Chapter in Valuation of Biodiversity Benefits Studies. Dan Biller, ed. OECD. 2002.

“Valuing scientific information: choice model estimates of the value of biodiversity in the Clinch River Valley” (with Jim Kahn and Randy Bruins). Chapter in Economics and Ecological Risk Assessment: Applications to Watershed Management, Randy Bruin and Matt Heberling, eds. CRC Press/Lewis. December 2004.

“A Primer on Stated Preference Modeling” (with Jim Kahn). Chapter in Handbook of Contingent Valuation, Anna Alberini and James Kahn, eds. Edward Elgar. February 2006.

“A decision support system for demand management in the Conchos basin, Mexico.” 2004. in Hydrology: Science and practice for the 21<sup>st</sup> century, Bruce Webb, et al editors. London. Proceedings of the British Hydrological Society 2004.

“Valuing biodiversity in a rural valley: Clinch and Powell River watershed.” 2003. Chapter in Integrating ecological risk assessment and economic analysis in watersheds: a conceptual approach and three case studies. Prepared by the U.S. Environmental Protection Agency National Center for Environmental Assessment, Cincinnati, OH. EPA/600/R-03/140R. Available from National Technical Information Service, Springfield, VA PB2004-101634U.S.

“How Much Do Visitors Value Scenic Quality? Results from The Blue Ridge Parkway Scenic Experience Project” (with Leah Greden Mathews, Susan Kask, Laura Rotegard, Gary Johnson) in Protecting Our Diverse Heritage: The Role of Parks, Protected Areas, and Cultural Sites, Proceedings of the 2003 George Wright Society/National Park Service Joint Conference, David Harmon, editor. 2004.

“Economic Effects of TVA Lake Management Policy.” (with Matt Murray, Karie Barbour, Brian Hill) Report for the U.S. Department of Housing and Urban Development May 2003.

“Incorporating Economic Values into TVA River Scheduling Operations.” Report for Tennessee Valley Authority under Activity Authorization Contract No. 99R2A-252850, project entitled, “Valuing TVA’s Intangible Assets for Integrated Capital Asset Decision-Making.” March 2002 (with Paul Jakus and Jim Kahn).

“Using Economics to Inform National Park Management Decisions: A Case Study on the Blue Ridge Parkway” (with Leah Greden Mathews, Susan Kask, and Laura Rotegard.) Crossing Boundaries in Park Management: Proceedings of the 11th Conference on Research and Resource Management in Parks and on Public Lands. Proceedings of the 2001 George Wright Society. David Harmon, editor, January 2002.

“A Trade-off Weighted Index Approach: Integrating Economic and Ecological Analysis” (with Jim Kahn, Robert O’Neill, Amy Wolf, and Randall Bruins in Integrated Decision-Making for Watershed Management. Virginia Tech, January 2001.

“Economic Values and Tennessee Valley Authority River Operations” Report for Tennessee Valley Authority under Activity Authorization Contract No. 99R2A-252850, project entitled “Valuing TVA’s Intangible Assets for Integrated Capital Asset Decision-Making.” August 2001 (with Paul Jakus and Jim Kahn).

### **Selected Awards/Grants**

“Arsenic in Arizona: Evaluating the Economic Costs and Hydrogeologic Feasibility of Non-Treatment Methods” Technology and Research Initiative Fund, State of Arizona. \$74,400. July 2004-June 2006. (Steven Stewart, James Hogan). Principle Investigator.

“Integrated Modeling and Ecological Valuation.” EPA National Center for Environmental Research Star Grant Program. \$400,000. May 2004-April 2007. (David Brookshire, Steven Stewart, David Goodrich, Julie Stromberg) Co-Principal Investigator.

“Experimental Stormwater Runoff Control Allowance Market” EPA National Management Research Laboratory, Sustainable Technology Division. \$17,100. March 2004-August 2006. Principal Investigator.

“Simulated Basin Model for Water Resource Planning and Education.” Water, Economic Development, and Sustainability Program: Technology and Research Initiative Fund. State of Arizona. \$108,680. (Kevin Lansey, Paul Brooks, Wendell Ela, Steven Stewart, Paul Wilson) Investigator.

“The Non-Market Benefits of TVA Reservoir Operations in East Tennessee.” U.S. Department of Housing and Urban Development 2001-2003. \$150,000. (Matt Murray, Steven Stewart) Investigator.

“Valuing TVA’s Intangible Assets for Integrated Capital Asset Decision-Making.” Tennessee Valley Authority 2000-2002. \$83,000. (Jim Kahn, Paul Jakus, Steven Stewart) Co-Principal Investigator.

“A Trade-off Weighted Index Approach for Integrating Economics and Ecological Risk Assessment.” U.S. Environmental Protection Agency 1999-2002. \$195,000. (Jim Kahn, Steven Stewart, Robert O’Neil) Co-Principal Investigator.

“An Economic Analysis of Intellectual Property Rights Issues in the Human Genome Program.” U.S. Department of Energy, Office of Biological Research 1999-2002. \$140,000. (David Bjornstad, Steven Stewart) Investigator.