

John B. Loomis, Professor
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11-2023

EDUCATION

Colorado State University	Ph.D.	Economics	12/83
(Fields: Environmental & Natural Resource Economics, Public Finance and Forest Economics)			
California State University, Northridge	M.A.	Economics	1/77
California State University, Northridge	B.A.	Economics	8/75

AWARDS AND HONORS

- Fellow, Agricultural and Applied Economics Association (AAEA) 2014
- Fellow, Association of Environmental and Resource Economists (AERE), 2013
- Distinguished Career Award, College of Agricultural Sciences, Colorado State University, 2012
- Publication of Enduring Quality, Agricultural and Applied Economics Association (AAEA), 2009.
- Outstanding Journal Article for 2008, *Journal of Agricultural and Applied Economics*.
- Distinguished Scholar, Western Agricultural Economics Association, 2004
- Distinguished Publication Award, USDA Forest Service, Pacific Southwest Research Station, 2000
- Quality Performance Award, U.S. Fish and Wildlife Service, 1985

PUBLICATIONS

Five books, including *Integrated Public Lands Management* published by Columbia University Press, *Recreation Economic Decisions, 2nd ed.*, *Environmental Policy Analysis for Decision Making*, *Determining the Economic Value of Water, 2nd Edition* plus 271 articles in journals including Land Economics, American Journal of Agricultural Economics, Public Finance Quarterly, Review of Economics and Statistics, Environmental & Resource Economics, Journal of Forestry, Water Resources Research and Journal of Environmental Economics and Management. Have published 83 book chapters/proceedings paper and 27 Experiment Station or Government Reports. See attached listing.

POSITIONS IN PROFESSIONAL SOCIETIES & ADVISORY ROLES

- Associate Editor, *American Journal of Agricultural Economics* (2012-2015)
- Independent External Panel Reviewer, U.S. Army Corps of Engineers, 2010-present
- Vice President, Association of Environmental and Resource Economists (2000-01)
- Co-Editor, Association of Environmental and Resource Economists Newsletter (1998 to 2017)
- Associate Editor (1989-92), *Water Resources Research*; *American Journal of Agricultural Economics*
- Editorial Council Member (1998-2000), *Journal of Agricultural and Resource Economics*

WORK EXPERIENCE

- 8/93 to present: Professor, Department of Agricultural and Resource Economics, Colorado State University, Fort Collins, CO.
- 8/85 to 7/93: Associate Professor, Division of Environmental Studies & Department of Agricultural Economics, University of California, Davis, CA.
- 3/80 to 7/85: Economist, U.S. Department of Interior, U.S. Fish and Wildlife Service, Ft. Collins, CO.
- 8/77 to 2/80 Economist, U.S. Bureau of Land Management, Moab, UT

SELECTED GRANTS 1993-2021: Principal Investigator on \$5.9 million; Co-PI on additional \$2.25 million

National Science Foundation NSF)-Multi-Institution Bio-Complexity Grant	\$1.7 million (Lead PI)
US Forest Service and US DOI- Fire Economics Research Grants (PI),	\$1.5 million
US Forest Service-Cost of Fire Suppression and Fuel Treatments (PI)	\$450,000
Bureau of Reclamation - Economic Value of Endangered Species, (PI)	\$53,000
USEPA - Measuring Societal Perceptions, Attitudes and Values, (PI)	\$115,000
USGS. Economic Valuation of Ecosystem Services, (PI)	\$169,000
USEPA- Valuing Children's Health (Co-PI)	\$395,000
US Forest Service-Economic Analysis of Air Quality Impacts: (PI)	\$252,000
US Bureau of Land Management: Study of the Effects of Social Impacts	\$125,461
USDA Effects of Conservation Reserve Program Lands on Outdoor Recreation (PI)	\$250,000
Total Economic Value of National Parks & Programs (PI)	\$395,000
NPS Residential Property Value Analysis of National Park Units	\$175,000

LEGAL/EXPERT WITNESS

1. Expert Witness for State of Idaho Attorney General in a fish kill case. I prepared an expert report, was deposed, qualified as an expert by Federal District Court in Idaho, and testified at trial in U.S. District Court of Idaho. 1991.
2. Expert Witness for California Attorney General's office regarding Lake Tahoe landowner litigation. I prepared an expert report, was qualified as an expert by Federal District Court in Nevada, and testified at trial in U.S. District Court of Nevada. 1998.
3. Expert witness for a landowner whose property (including forests) were damaged by U.S. West, when the company was laying telephone cable. I prepared an expert report and was deposed. The case settled out of court.
4. Expert witness for the Arizona Attorney General's office on a case of loss of bighorn sheep. Prepared an expert report. Case was settled out of court. April 2006.
5. Expert witness in a dispute in Wyoming over the economic damage that energy development had to elk habitat on a split estate (minerals owned by federal government, surface owned by private rancher). I prepared an expert report. Direct testimony (including exhibits) was prepared for trial. Settled out of court. July 2012.
6. Assisted the State of Florida in its Natural Resource Damage Assessment in the BP Gulf Oil Spill case. Helped to prepare the background research on Florida recreation and tourism impacts due to the spill as well as the passive use/non-use value of the general public. Information was used by the State of Florida in its negotiation with BP. January 2011-March 2012
7. Expert witness for U.S. Dept. of Justice on reliability and validity of surveys conducted by a landowner on the potential value of development of their private land in proposed federal government acquisition of the property. Prepared expert report and was deposed. 2016-2018

ADVISOR/EXTERNAL REVIEWER

1. Served on 10 U.S. Army Corps of Engineers Independent External Panel Reviews
2. Science Advisor to Grand Canyon Monitoring and Research Center

CONSULTING SERVICES

1. Served as a consultant in various roles including:
 - a. reviewer/quality assurance role,
 - b. analyst (statistical, spreadsheet)
 - c. aiding in scoping studies
 - d. designing a wide variety of surveys (CVM, Choice Experiments, recreation)
 - e. training courses in recreation valuation, non-market valuation, benefit-cost analysis, benefit transfer.
 - f. Conducting hedonic property value analyses
2. Companies and agencies include Booz-Allen Hamilton, Ducks Unlimited, BBC Consulting, Earth Economics, National Park Service, Federal Energy Regulatory Commission, Industrial Economics, Natural Resources Defense Council, National Renewable Energy Lab, and U.S. Bureau of Economic Analysis.

I. BOOKS

Valuing U.S. National Parks and Programs: America's Best Investment. 2019. Routledge Press.
<https://www.routledge.com/Valuing-US-National-Parks-and-Programs-Americas-Best-Investment/Bilmes-Loomis/p/book/9781138483125>

With Co-Editor Linda Bilmes, Harvard University.

Determining the Economic Value of Water: Concepts and Methods, 2nd edition.
Resources for the Future Press (Taylor & Francis) with Robert Young, 2014 .

Integrated Public Lands Management: Principles and Applications to National Forests, Parks and Wildlife Refuges, and BLM Lands. Columbia University Press, New York, NY. 1993. 2nd Edition. 2002.

Environmental Policy Analysis for Decision Making. Kluwer Academic Publishers, 2001. Co-authored with Gloria Helfand.

Recreation Economic Decisions: Comparing Benefits and Costs. 2nd, Edition. Venture Publishing, State College, PA. 1997. Co-authored with Richard Walsh.

II. SCIENTIFIC JOURNAL ARTICLES

271. Homeowners Willingness to Pay to Reduce Wildfire Risk in Wildland Urban Interface Areas: Implications for Targeting Financial Incentives. *International Journal of Disaster Risk Reduction.* 68(1). 2022. With J. Sanchez, T. Holmes and A. Gonzalez-Caban. <https://doi.org/10.1016/j.ijdrr.2021.102696>

270. Valuing Impacts of Proximity to Saguaro National Park on House Prices. *Applied Economic Perspectives and Policy* 2021. 44(3):1359-1372. DOI: 10.1002/aepp.13196. With J. Mueller, L. Richardson and R. Fitch.

269. Economics of the Conservation Reserve Program and the Wildlife it Supports: A Case Study of Upland Birds in South Dakota. *Journal of Outdoor Recreation and Tourism* 35: 1-8. 2021. W. Gascoigne, R. Hill, M. Haefele, J. Loomis and S. Hyberg.

268. Do Fuel Treatments in U.S. National Forests Reduce Wildfire Suppression Costs and Property Damage?. *Journal of Natural Resources Policy Research* 9(1) 42-73. 2019. With J. Sanchez, D. Rideout, A. Gonzalez-Caban.

267. A Method to Value Nature-related webcam viewing: The Value of Virtual Use with Application to Brown Bear Webcam Viewing. 2019. *Journal of Environmental Economics and Policy* 7(4): 452-462.

266. Do Economic Values and Expenditures for Viewing Waterfowl in the U.S. Differ among Species? *Human Dimensions of Wildlife* 23(6): 587-596. With 11 other authors (U of AZ, USGS, Ducks Unlimited).

265. Multi-country Willingness to Pay for Transborder Migratory Species Conservation: A Case Study of Northern Pintails. 2018. *Ecological Economics* 157:321-331. With M. Haefele and 11 others (U of AZ, USGS, USFWS).

264. Understanding Agricultural Producers' Willingness to Undertake Self-Monitoring of Environmental Outcomes: Results of a Choice Experiment with Colorado Agricultural Producers. 2018. *Journal of Natural Resources Policy Research* 8: 1-21. With W. Gascoigne.

263. Economic Contributions to the Colorado Economy and Benefits to Visitors from Water-Based Recreation. *Colorado Water* July /August 2018.

262. Willingness to Pay for Conservation of Transboundary Migratory Species: A Case Study of the Mexican Free-Tailed Bat in the United States and Mexico. 2018. *Environmental Management* 62: 229-240. With M. Haefele (lead author), Loomis (2nd author) and 11 other authors (U of Arizona, U of Tennessee, USGS).

261. Valuing Environmental Public Goods: Deliberative Citizen Juries as a Non-Rational Persuasion Method. *Journal of Sustainable Development* 11(3): 135-157. With S. Geleta, J. Janmaat, & S. Davies.

260. An Information Theoretic Approach to Estimating Willingness to pay for River Recreation Site Attributes. *Water Resources and Economics* 21: 17-28. With M. Henry and R. Mittelhammer, Washington State U.

259. Challenges and Solutions to Applying the Travel Cost Demand Model to Geographically Remote Visitor Destinations: A Case Study of Bear Viewing at Katmai National Park and Preserve. 2017. *Human Dimensions of Wildlife* 22(6): 550-563. With L. Richardson (NPS) and C. Huber (USGS).

258. How Sensitive Are Environmental Valuations to Economic Downturns. 2017. *Ecological Economics* 140: 235-240. With M. Loureiro.

257. Is Willingness to Pay for Freshwater Quality Improvement in Pakistan Affected by Payment Vehicle? Donations, Mandatory Government Payments or Donations to NGO's. *Environmental Economics and Policy Studies*, 19(4): 807-818. With S. Syed and D. Hoag. 2017.

256. Economic Valuation of River Restoration: An Analysis of the Valuation Literature and its uses in Decision-making. *Water Resources and Economics* 17: 9-19. 2017. with John Bergstrom.

255. Quantifying Market and Non-market Benefits and Cost of Hydraulic Fracturing in the United States: A Summary of the Literature. *Ecological Economics* 138: 160-167. 2017. with Michelle Haefele.

254. The Total Economic Value of the U.S. National Park Service Estimated to be \$92 billion: Implications for Policy. *The George Wright Forum* 33(3): 335-345. 2016. With M. Haefele and L. Bilmes.

253. The Role of Economic Benefit Measures in Recreation Planning and Management. *Journal of Park and Recreation Administration* 34(4): 106-108. 2016.

252. Consumer preferences for fixed versus variable quantities of electricity: joint estimation of contingent quantity and valuation methods', *Environment and Development Economics*, pp. 1-23. 2016. with Dale Manning.

251. Valuing Morbidity Effects of Wildfire Smoke Exposure from 2007 Southern California Wildfires. *Journal of Forest Economics* 25: 29-54. With I. Kochi, P. Champ and G. Donovan. 2016.

250. Estimating Urban Households' Willingness-to-Pay for Upland Forest Restoration in Vietnam. *Open Journal of Forestry* 6: 191-198. 2016. with Q. Kuhc, M. Alhassan, T. Tran and M. Paschke.

249. A Synthesis of the Economic Values of Wilderness. *Journal of Forestry* 114(3): 320-328. With T. Holmes, J. Bowker, J. Englin, E. Hjerpe, S. Phillips, and R. Richardson. 2016.

248. Valuing Urban Tropical River Recreation Attributes Using Choice Experiments. *Environment and Natural Resources Research* 6(2). Online (<http://www.ccsenet.org/journal/index.php/enrr/article/view/60072>), With L. Santiago, A. Ortiz and A. Torres, University of Puerto Rico. 2016.

247. Linking Ecological Data and Economics to Estimate the Total Economic Value of Improving Water Quality by Reducing Nutrients. *Ecological Economics* 118: 1-9. 2015. With N. Nelson, P. Jakus, M Kealy, N Stackelburg, and J. Ostermiller. 2015.

246. Are Housing Prices Pulled Down or Pushed Up by Fracked Oil and Gas Wells? A Hedonic Price Analysis of Housing Values in Weld County, Colorado. *Society and Natural Resources* 28(5): 1168-1186. 2015. With A. Bennett.

245. Non-Market Benefits of Reducing Environmental Effects of Potential Wildfires in Beetle Killed Trees: A Contingent Valuation Study. *Journal of Sustainable Forestry* 34(8): 720-737. With M. Tabatabaei and D. McCollum. 2015.

244. The Role of Benefit Transfer in Ecosystem Service Valuation. *Ecological Economics* 115: 51-58. With L. Richardson, T. Kroeger and F. Casey. 2015.

243. Valuing Geospatial Information: Using the Contingent Valuation Method to Estimate the Economic Benefits of Landsat Satellite Imagery. *Photogrammetric Engineering and Remote Sensing*. 81(8): 647-656. With S. Koontz, H. Miller and L. Richardson. 2015.

242. Relative Economic Values of Open Space Provided by National Forest and Military Lands Surrounding Communities. *Growth and Change* Vol 46(1): 81-96. With C. Ham and P. Champ. 2015.

241. Economic Values of Agritourism to Visitors: A Multi-destination Hurdle Travel Cost Model of Demand. *Tourism Economics* 20(5): 1047-1065. With R. Hill, D. Thilmany, M. Sullins. 2015.

240. National Valuation of Monarch Butterflies Indicates Untapped Potential for Incentive Based Conservation. *Conservation Letters* 7(3): 253-262. With J. Diffendorfer (lead author); Loomis 2nd author & 11 others. 2014.

239. Does the Estimated Impacts of Wildfires Vary with Housing Price Distribution? A Quantile Regression Approach. *Land Use Policy* 41: 121-127. 2014. with Julie Mueller, No. AZ University.

238. Strategies for Overcoming Hypothetical Bias in Stated Preference Surveys. *Journal of Agricultural and Resource Economics* 39(1): 34-46. 2014

237. Economic Value of Instream Flow for Non-Commercial Whitewater Boating Using Recreation Demand and Contingent Valuation Methods. *Environmental Management* 53(3): 510-519. 2014. with J. McTernan.

236. International Public Preferences and Provision of Public Goods: Assessment of the Passive Use Values in Large Oil Spills. *Environmental and Resource Economics* 56: 521-534. 2013. with M. Louriero.

235. Effects of Construction and Operation Phases on Residential Property Prices of the Caribbean's First Modern Rail Transit System. *Urban Public Economics Review* 17:57-78 (2012 but appeared 2013) with L. Santiago.

234. Economic Valuation of Beach Quality Improvements: Comparing Incremental Attribute Values Estimated from Two Stated Preference Valuation Methods. *Coastal Management* 41: 75-86. 2013. With L. Santiago.

233. Using Revealed Preference Behavioral Models to Correctly Account for Substitution Effects in Economic Impact Analysis. *Journal of Regional Analysis and Policy* 43(2): 157-169. With D. Deisenroth, and C. Bond.

232. The Effects of Personal Experience on Choice-Based Preferences for Wildfire Protection Programs. *International Journal of Wildland Fire* 22: 234-245. 2013. with T. Holmes, A.G. Caban, and J. Sanchez.

231. Estimating Farmers' Willingness to Pay for Improved Irrigation: An Economic Study of the Bontanga Irrigation Scheme in Northern Ghana. *Journal of Agricultural Science* 5(4). 2013. Marshall Frasier, et al.

230. A Spatial Probit Modeling Approach to Account for Spatial Spillover Effects in Dichotomous Choice Contingent Valuation Surveys. *Journal of Agricultural & Applied Economics* 45: 53-63. with J. Mueller. 2013.

229. Do Respondents Report Willingness to pay on a Per Person or Per Group Basis? A High Mountain Recreation Example. *Tourism Economics* 19(1): 133-145. with C. Keske and G. Lohman. 2013.

228. Valuing Morbidity from Wildfire Smoke: A Comparison of Revealed and Stated Preference Techniques. *Land Economics* 89(1): 76-100. With L. Richardson and P. Champ. 2013.

227. A Policy Analysis of the Collaborative Upper Colorado River Basin Endangered Fish Recovery Program: Cost Savings or Cost Shifting? *Natural Resources Journal* 52(2): 337-362. With J. Ballweber. 2012.

226. Bayesians in Space: Using Bayesian Methods to Inform Choice of Spatial Weights Matrix in Hedonic Property Analyses. *The Review of Regional Studies* 40(3): 245-255. Publication date 2010, appeared in 2012. With J. Mueller.

225. Ways to Make Stated Preference Methods more Valuable to Public Land Managers. *Western Economic Forum* 9(1): 22-29. Spring 2012.

224. The Economic Contribution of the Private Recreation-Based Aquaculture Industry in the Western United States. *Aquaculture Economics and Management* 16:1-21. 2012. with D. Deisenroth and C. Bond.

223. Accounting for Heterogeneity of Public Lands in Hedonic Property Models. *Land Economics* 88(3): 444-456. with C. Ham, P. Champ and R. Reich. 2012.

222. Comparing Economic Values of Trout Anglers and NontROUT Anglers in Colorado's Stocked Public Reservoirs. *North American Journal of Fisheries Management* 32: 202-210. 2012. With K. Ng.

221. Comparing Fire Protection and Improvement Values at Four Major US National Parks and Assessing Potential for Generalized Value Categories. 2012. *International Journal of Safety and Security Engineering* 2(1): 1-12. With D. Rideout, P. Ziesler and Y. Wei.

220. Comparing Household's Total Economic Values and Recreation Value of Instream Flow in an Urban River. *Journal of Environmental Economics and Policy* 1(1): 5-17. 2012.

219. The Hidden Costs of Wildfires: Economic Valuation of Health Effects of Wildfire Smoke Exposure in Southern California. *Journal of Forest Economics*, 18: 14-35. With L. Richardson and P. Champ. 2012.

218. Did the Great Recession Reduce Visitor Spending and Willingness to Pay for Nature-Based Recreation: Evidence from 2006 and 2009. *Contemporary Economic Policy*. 30(2):238-246. 2012. With C. Keske. 2012.

217. Valuing Mortality Impacts of Smoke Exposure from Major Southern California Wildfires. *Journal of Forest Economics* 18: 61-75. With I. Kochi, P. Champ, and G. Donovan. 2012.

216. A New Approach to Value Urban Recreation Using Visitors' Time Allocations. *Urban Public Economic Reviews* 14: 13-24. 2011.

215. What's to Know about Hypothetical Bias in Stated Preference Valuation Studies. *Journal of Economic Surveys* 25(2): 363-370. 2011.

214. Testing Differences in Estimation of River Recreation Benefits for International and Domestic Tourists as a Function of Single versus Multiple-Destination Trips. *Journal of Hospitality Marketing & Management* 20: 143-165. 2011. with L. Santiago.

213. Incorporating Distributional Issues into Benefit Cost Analysis: Why, How, and Two Empirical Examples Using Non-market Valuation. *Journal of Benefit Cost Analysis* 2(1): Article 5. Berkeley Electronic Press. 2011.

212. Comparing Tourists' Behaviour and Values of Land Use Changes. *Journal of Environmental Planning and Management* 54(1): 55-69. 2011. With L. Ellingson and A. Seidl.

211. Forest Service Use of Nonmarket Valuation in Fire Economics: Past, Present, and Future. *Journal of Forestry* 108(8): 389-396. with Armando Gonzalez-Caban (USFS). 2010.

210. The Economic Cost of Adverse Health Effects from Wildfire-Smoke Exposure: A Review. *International Journal of Wildland Fire* 19: 803-817. 2010. With I. Kochi, G. Donovan, P. Champ.

209. Do CVM Estimates Suffer from On-Site Sampling Bias? A Comparison of On-Site and Visitor Surveys. *Agricultural and Resource Economics Review* 39(3): 561-570. 2010. with J.M. Gonzalez-Sepulveda.

208. An Improved Method for Calibrating Purchase Intentions in Stated Preference Demand Models. *Journal of Agricultural and Applied Economics* 42(4): 679-693. 2010. with Steve Davies, CSU.

207. Willingness to Pay Function for Two Fuel Treatments to Reduce Wildfire Acreage: A Scope Test and Comparison of White and Hispanic Households. *Forest Policy and Economics* 11: 155-160. 2009. With Le Trong Hung and A. Gonzalez-Caban.

206. Economic Valuation of Environmental Damages due to the Prestige Oil Spill in Spain. *Environmental and Resource Economics* 44:537-553. 2009 with M. Loureiro and M. Xose-Vazquez.

205. A Comparison of Actual and Hypothetical Willingness to Pay of Parents and Non-Parents for Protecting Infant Health: The Case of Nitrates in Drinking Water. *Journal of Agricultural and Applied Economics*, 41,3(December 2009):697-712. With P. Bell, H. Cooney and C. Asmus.

204. Using Numerical Dynamic Programming to Compare Passive and Active Learning in Adaptive Management of Nutrients in Shallow Lakes. 2009. *Canadian Journal of Agricultural Economics* 57: 555-573. with Craig Bond.

203. Non-Market Valuation of Off-Highway Vehicle Recreation in Larimer County, Colorado: Implications for Trail Closures. *Journal of Environmental Management* 2009. 90(1): 3490-3497. With D. Deisenroth, and C. Bond.

202. The Economic Value of Novel Means of Ascending High Mountain Peaks: A Travel Cost Demand Model of Pikes Peak Cog Railway riders, automobile users and hikers. *Tourism Economics* 15(2): 426-436. 2009. With Catherine Keske.

201. Recreation Benefits of Natural Area Characteristics at El Yunque National Forest. *Environmental Planning and Management* 52(4): 535-547. With Luis Santiago. 2009.

200. A Hybrid Individual-Zonal Travel Cost Model for Estimating the Consumer Surplus for Golfing in Colorado. *Sports Economics* 10(2): 155-167. With O. Tadjion, P. Watson, J. Wilson, S. Davies and D. Thilmany. 2009.

199. Mountain Substitutability and Peak Load Pricing of High Alpine Peaks as a Management tool to Reduce Environmental Damage: A Contingent Valuation Study. *Journal of Environmental Management* 90: 1751-1760. 2009. with C. Keske.

198. The Total Economic Value of Threatened, Endangered and Rare Species: An Updated Meta- Analysis, *Ecological Economics* 68: 1535-1548. 2009. With Leslie Richardson.

197. The Potential of Agent Based Modelling for Performing Economic Analysis of Adaptive Natural Resource Management. *Journal of Natural Resources Policy Research*: 1(1): 1-15. 2009. with C. Bond & D. Harpman.

196. Do Repeated Wildfires Change Homebuyers' Demand for Homes in High Risk Areas? A Hedonic Analysis of the Short and Long-term Effects of Repeated Wildfires on House Prices in Southern California. *Journal of Real Estate Finance and Economics* 38:155-172. 2009. With J. Mueller and A. Gonzalez-Caban.

195. Instream Flow as a Public Good: Possibilities for Economic Organization and Voluntary Local Provision. *Review of Agricultural Economics*, 30(3): 445-456. 2008. With Edna Loehman, Purdue University

194. A Joint Estimation Method to Combine Dichotomous Choice CVM Models with Count Data TCM Models Corrected for Truncation and Endogenous Stratification. 2008. *Journal of Agricultural and Applied Economics* 49(2): 681-697. With Juan Marcos Gonzalez and Armando Gonzalez-Caban. Won Outstanding Journal Article for 2008 at the *Journal of Agricultural and Applied Economics*.

193. Spatial Dependence in Hedonic Property Models: Do Different Corrections Result in Economically Significant Differences in Estimated Implicit Prices 2008. *Journal of Agricultural and Resource Economics* 33(2): 212-231. With Julie Mueller.

192. Comparing Recreation Benefits from On-site versus household surveys in count data models with over-dispersion. 2008. *Tourism Economics* 14(3): 567-576. With R. Martinez-Espineira, J. Amoako-Tuffour and J. Hilbe

191. Using Non Market Valuation to Inform the Choice Between Permits and Fees in Environmental Regulation. 2008. *Environmental and Resource Economics* 40: 329-337. With Bryon Allen.

190. Frameworks for Analyzing the Economic Effects of Climate Change on Outdoor Recreation., 2008. *Climate Research* 36: 259-269. with D. Shaw.

189. Regional Economic Contribution and Net Economic Values of Opening Access to Three Colorado Fourteeners. 2008. *Tourism Economics* 14(2): 249-262. with Catherine Keske

188. A Model for Predicting Daily Peak Visitation and Implications for Recreation Management and Water Quality: Evidence from Two Rivers in Puerto Rico. 2008. *Environmental Management* 41(6): 904-914. With L. Santiago and A. Gonzalez-Caban.

187. The Decision to Use Benefit Transfer or Conduct Original Valuation Research for Benefit-Cost and Policy Analysis. *Contemporary Economic Policy* 26(1): 1-12. 2008. with Bryon Allen.

186. Estimating rates of substitution for protecting values at risk for initial attack planning and budgeting. *Forest Policy and Economics* 10: 205-219. With D. Rideout, P. Ziesler, R. Kling and S. Botti. 2008.

185. Are High Wages Hazardous to Your Health ? The Myth that Attracting Higher Paying Extractive Industry Jobs is a Desirable Community Economic Development Strategy. *Western Economic Forum* 6(2): 10-14. Fall 2007, with Joe Kerkvliet and Stephan Weiler

184. Defining, Valuing, and Providing Ecosystem Goods and Services. *Natural Resources Journal* 47(2): 329-376. with T. Brown and J. Bergstrom. 2007.

183. Willingness-to-pay for prescribed fire in Colorado (USA) wildland urban interface. *Forest Policy and Economics* 9: 928-937. May 2007. With Pamela Kaval and Andy Seidl.

182. A Comparison of CVM Survey Response Rates, Protests and Willingness to Pay of Native Americans and General Population for Fuel Reduction Policies. *Journal of Forest Economics* 13: 49-71. 2007. With A. Gonzalez-Caban, Hayley Hesseln.

181. Comparing Money and Labour Payment in Contingent Valuation: The Case of Forest Fire Prevention in Vietnamese Context. *Journal of International Development* 19: 173-185. 2007. with Le Trong and Vu Tien Thinh

180. Correcting for On-Site Visitor Sampling Bias when Estimating the Regional Economic Effects of Tourism. *Tourism Economics* 13(1): 41-47. 2007.

179. Comparing the Value of Fuel Treatment Options in northern Colorado's Urban and wildland –urban interface areas. *Forest Policy and Economics* 9: 694-703. With S. Walker, R. Rideout and R. Reich. 2007.

178. Recreation as a Spatial Good: Distance Effects on Changes in Recreation Visitation and Benefits. *The Review of Regional Studies* 36(3): 362-380. with R. Richardson and S. Weiler.

177. Testing the Convergent Validity of Videotape Survey Administration and Phone Interviews in Contingent Valuation. *Society & Natural Resources* 19: 367-375. 2006. With J. Miller, A. Gonzalez-Caban, J. Champ.

176. Evaluating the Performance of Different Willingness to Pay Question Formats for Valuing Environmental Restoration in Rural China. *Environment and Development Economics* 11: 585-601. 2006. With X. Zhongmin, A. Ahiqiang, K. Hamaura.

175. Reducing Barriers in Future Benefit Transfers: Needed in Primary Study Design and Reporting. 2006. *Ecological Economics* 60: 343-350. with R. Rosenberger.

174. Estimating Recreation and Existence Values of Sea Otter Expansion in California Using Benefit Transfer. *Coastal Management* 34(4): 387-404. 2006.

173. The Role of Ethnicity and Language in Contingent Valuation Analysis: A Fire Prevention Policy Application. *Am. J. of Economics and Sociology* 65(3): 559-587. With L. Ellingson, A. Gonzalez-Caban & A. Seidl. 2006.

172. Importance of Including Use and Passive Use Values in River and Lake Restoration. *Journal of Contemporary Water Research and Education*, #134: 4-8. July 2006.

171. Use of Survey Data to Estimate Economic Value and Regional Economic Effects of Fishery Improvements. *North American Journal of Fisheries Management* 26: 301-307. 2006.

170. A External Validity Test of Intended Behavior: Comparing Revealed Preference and Intended Visitation in Response to Climate Change. *Journal of Environmental Planning and Management* 49(4): 621-630. 2006. with Robert Richardson.

169. A Comparison of the Effect of Multiple Destination Trips on Recreation Benefits as Estimated by Travel Cost and Contingent Valuation Methods. *Journal of Leisure Research* 38(1): 46-60. 2006.

168. Irrigation Water Demand: A Meta-Analysis of Price Elasticities. *Water Resources Research*, Vol 42, W01411: 1-9. 2006. With S. Scheierling and Robert Young.

167. The Importance of Adjusting for Trip Purpose in Regional Economic Analyses of Tourist Destinations. *Tourism Economics* 12(1): 33-43. 2006. with Lynne Caughlan, USGS.

166. Deriving Values for the Ecological Support Function of Wildlife: An Indirect Valuation Approach. *Ecological Economics* 56: 49-57. 2006. With Bryon Allen.

165. Testing Transferability of Willingness to Pay for Forest Fire Prevention Among Three States of California, Florida and Montana. *Journal of Forest Economics* 11: 125-140. 2005. with H.T. Le and A. Gonzalez-Caban

164. Estimating the Economic Benefits of Maintaining Residential Lake Levels at an Irrigation Reservoir: A Contingent Valuation Study. *Water Resources Research*, 2005. Vol 41, W0805: 1-9. with A. Smith and Paul Huszar.

163. Economic Values without Prices: The Importance of Nonmarket Values and Valuation for Informing Public Policy Debates. 2005. *Choices* 20(3): 179-182.

162. Computational Methods for Measuring the Difference of Empirical Distributions. *American Journal of Agricultural Economics* 2005. 87(2): 353-365. With G. Poe and K. Giraud.

161. Climate Change and Recreation Benefits in an Alpine National Park. *Journal of Leisure Research* 37(3): 307-320. 2005. With R. Richardson.

160. Using Random Parameters to Account for Heterogeneous Preferences in Contingent Valuation of Public Open Space. *Journal of Agricultural and Resource Economics* 29(3): 537-552. With L. Nahuelhual and M. Loureiro. 2004.

159. Do Nearby Forest Fires Cause a Reduction in Residential Property Values. *Journal of Forest Economics* 10: 149-157. 2004.

158. How Bison and Elk Populations Impact Park Visitation: A Comparison of Results from a Survey and Historic Visitation Regression Model. *Society and Natural Resources* 17: 941-949. 2004.

157. Adaptive Recreation Planning and Climate Change: A Contingent Visitation Approach. *Ecological Economics* 50: 83-99. 2004. With Robert Richardson.

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