

References

- 109 STAT. 48: Unfunded Mandates Reform Act of 1995 (P.L. 104-4), March 22, 1995. Available at: <http://www.sba.gov/advo/laws/unfund.pdf> (accessed January 31, 2011).
- 44 U.S.C 3501: Paperwork Reduction Act of 1995, 1995. Available at: <http://www.archives.gov/federal-register/laws/paperwork-reduction/3501.html> (accessed January 31, 2011).
- 5 U.S.C 601-612: The Regulatory Flexibility Act of 1980 (P.L. 96-354), as amended by the Small Business Enforcement Fairness Act (P.L. 104-121), 1996. Available at: <http://www.archives.gov/federal-register/laws/regulatory-flexibility> (accessed January 31, 2011).
- Acharya, G. and E.B. Barbier. 2002. Using Domestic Water Analysis to Value Groundwater Recharge in the Hadejia-Jama'are Floodplain, Northern Nigeria. *American Journal of Agricultural Economics* 84(2): 415-426.
- Adamowicz, W.L., J. Louviere, and M. Williams. 1994. Combining Revealed and Stated Preference Methods for Valuing Environmental Amenities. *Journal of Environmental Economics and Management* 26: 271-292.
- Adamowicz, W.L., J. Swait, P. Boxall, J. Louviere, and M. Williams. 1997. Perceptions versus Objective Measures of Environmental Quality in Combined Revealed and Stated Preference Models of Environmental Valuation. *Journal of Environmental Economics and Management* 32: 65-84.
- Adamowicz, W., P. Boxall, M. Williams, and J. Louviere. 1998a. Stated Preference Approaches for Measuring Passive Use Values: Choice Experiments and Contingent Valuation. *American Journal of Agricultural Economics* 80: 64-75.
- Adams, R.M., S.A. Hamilton, and B.A. McCarl. 1986. The Benefits of Pollution Control: the Case of Ozone and U.S. Agriculture. *American Journal of Agricultural Economics* 68 (4): 886-893.
- Adams, R.M. and T.D. Crocker. 1991. Materials Damages. In *Measuring the Demand for Environmental Quality*, ed. J. Braden and C. Kolstad, 271-302. North Holland: Elsevier Science Publishers.
- Adler, M.D. 2008. Risk Equity: A New Proposal. *Harvard Environmental Law Review* 32.
- Adler, M.D. 2012. Well-Being and Fair Distribution: Beyond Cost-Benefit Analysis. Oxford.
- Adler, N.E. and D.H. Rehkopf. 2008. U.S. Disparities in Health: Descriptions, Causes, and Mechanisms. *Annual Review of Public Health* 29: 235-252.
- Alberini, A. 1995. Optimal Designs for Discrete Choice Contingent Valuation Surveys: Single-Bound, Double-Bound, and Bivariate Models. *Journal of Environmental Economics and Management* 28(3): 287-306.
- Alberini, A. 2004. Robustness of VSL Estimates from Contingent Valuation Studies. EPA Cooperative Agreement (#015-29528).
- Alberini, A. and D. Austin. 2001. Liability Policy and Toxic Pollution Releases. In *The Law and Economics of the Environment*, ed. A. Heyes. Cheltenham, UK: Edward Elgar Publishing.
- Alberini, A., M. Cropper, A. Krupnick, and N.B. Simon. 2004. Does the Value of a Statistical Life Vary with Age and Health Status? Evidence from the United States and Canada. *Journal of Environmental Economics and Management* 48: 769-792.

References

- Alberini, A. and A. Krupnick. 2000. Cost-of-Illness and WTP Estimates of the Benefits of Improved Air Quality: Evidence from Taiwan. *Land Economics* 76(1): 37-53.
- Aldy, J.E. and W.K. Viscusi. 2008. Adjusting the Value of a Statistical Life for Age and Cohort Effects. *Review of Economics and Statistics* 90(3): 573-581.
- Anderson, L. M., and H.K. Cordell. 1988. Influence of Trees on Residential Property Values in Athens, Georgia (U.S.A.): A Survey Based on Actual Sales Prices. *Landscape and Urban Planning* 15: 153-64.
- Anderson, R. and A. Lohof. 1997. *The United States Experience with Economic Incentives in Environmental Pollution Control Policy*. Environmental Law Institute, Washington, DC
- Anselin, L. 1988. *Spatial Econometrics: Methods and Models*. Boston: Kluwer.
- Apelberg B.J., T.J. Buckley, and R.H. White. 2005. Socioeconomic and Racial Disparities in Cancer Risks From Air Toxics in Maryland. *Environmental Health Perspective* 113(6): 693-699.
- Arnold, F. 1995. *Economic Analysis of Environmental Policy and Regulation*. New York, NY: John Wiley and Sons, Inc.
- Arora, S. and T. Cason. 1995. An Experiment in Voluntary Environmental Regulation: Participation in EPA's 33/50 Program. *Journal of Environmental Economics and Management* 28(3): 271-86.
- Arora, S. and T. Cason. 1999. Do Community Characteristics Influence Environmental Outcomes? Evidence from the Toxics Release Inventory. *Southern Economic Journal* 65(4): 691-716.
- Arrow, K.J. 1977. Extended Sympathy and the Possibility of Social Choice. *American Economic Review* 67(1): 219-225.
- Arrow, K.J., W.R. Cline, K.G. Maler, M. Munasinghe, R. Squitieri, and J.E. Stiglitz. 1996a. Intertemporal Equity, Discounting, and Economic Efficiency. In *Climate Change 1995: Economic and Social Dimensions of Climate Change*, ed. J.P. Bruce, H. Lee, and E.F. Haites. Cambridge, MA: Cambridge University Press.
- Arrow, K.J., et al. 1996. *Benefit-Cost Analysis in Environmental, Health and Safety Regulation*. Washington, DC: AEI Press.
- Arrow, K.J., et al. 1993. Report of the NOAA Panel on Contingent Valuation. *Federal Register* 58(10): 4601-4614. Available at: <http://www.darp.noaa.gov/library/pdf/cvblue.pdf> (accessed January 31, 2011).
- Aurora, S. and T.N. Cason. 1998. Do Community Characteristics Influence Environmental Outcomes? Evidence from the Toxics Release Inventory. *Journal of Applied Economics* 1(2): 413-453.
- Baden, B. and D. Coursey. 2002. The Locality of Waste in the City of Chicago: A Demographic, Social, and Economic Analysis. *Resource and Energy Economics* 24: 53- 93.
- Baden, B.M., D.S. Noonan, and R.M. Turaga. 2007. Scales of Justice: Is there a Geographic Bias in Environmental Equity Analysis? *Journal of Environmental Planning and Management* 50(2): 163-85.
- Balistreri, E., G. McClelland, G. Poe, and W. Schulze. 2001. Can Hypothetical Questions Reveal True Values? A Laboratory Comparison of Dichotomous Choice and Open-Ended Contingent Values with Auction Values. *Environmental and Resource Economics* 18(3): 275-292.
- Ballard, C.L. and D. Fullerton. 1992. Distortionary Taxes and the Provision of Public Goods. *Journal of Economic Perspectives* 6(3): 117-131.

- Banzhaf, H.S. 2012a. The Political Economy of Environmental Justice: An Introduction. In *The Political Economy of Environmental Justice*, ed. H. Spencer Banzhaf. California: Stanford University Press.
- Banzhaf, H.S. 2012b. Regulatory Impact Analyses of Environmental Justice Effects. *Journal of Land Use and Environmental Law* 27(1): 1-30.
- Banzhaf, H.S. and E. McCormick. 2012. Moving Beyond Cleanup: Identifying the Crucibles of Environmental Gentrification. In *The Political Economy of Environmental Justice*, ed. H.S. Banzhaf. California: Stanford University Press.
- Banzhaf, H.S., J. Sidon, and R.P. Walsh. 2012. Environmental Gentrification and Discrimination. In *The Political Economy of Environmental Justice*, ed. H.S. Banzhaf. California: Stanford University Press.
- Banzhaf, H.S. and R. P. Walsh. 2008. Do People Vote With Their Feet? An Empirical Test of Tiebot. *American Economic Review* 98(3): 843-63.
- Banzhaf, H.S., D. Burraw, D. Evans, and A. Krupnick. 2006. Valuation of Natural Resource Improvements in the Adirondacks. *Land Economics* 82: 445-464.
- Barbier, E.B., I. Strand, and S. Sathirathai. 2002. Do Open Access Conditions Affect the Valuation of an Externality? Estimating the Welfare Effects of Mangrove-Fishery Linkages in Thailand. *Environmental & Resource Economics* 21(4): 343-365.
- Barone, E. 1908. The Ministry of Production in the Collectivist State. *Giornale degli Economisti*, as translated in Hayek, 1935 (ed). *Collectivist Economic Planning*. London: Routledge.
- Bartik, T.J. 1988. Measuring the benefits of amenity improvements in hedonic price models. *Land Economics* 64: 172-183.
- Bateman, I. and A. Jones. 2003. Contrasting Conventional with Multi-Level Modeling Approaches to Meta-Analysis: Expectation Consistency in U.K. Woodland Recreation Values. *Land Economics* 79(2): 235-258.
- Baumol, W.J. and W.E. Oates. 1988. *The Theory of Environmental Policy* 2nd Ed. New York: Cambridge University Press.
- Becker, R.A. and R.J. Shadbegian. 2005. A Change of PACE: A Comparison of the 1994 and 1999 Pollution Abatement Costs and Expenditures Survey. *Journal of Economic and Social Measurement* 30: 63-95.
- Been, V. 1994. Analyzing Evidence of Environmental Justice. *Journal of Land Use and Environmental Law* 11(1): 1-28.
- Been, V. and F. Gupta. 1997. Coming to the Nuisance or Going to the Barrios: A Longitudinal Analysis of Environmental Justice Claims. *Ecology Law Quarterly* 24: 1-56.
- Begg, C., M. Cho, S. Eastwood, R. Horton, D. Moher, I. Olkin, et al. 1996. Improving the quality of reporting of randomized controlled trials: The CONSORT statement. *Journal of the American Medical Association* 276(8): 637-639.
- Bell, F.W. 1997. The Economic Valuation of Saltwater Marsh Supporting Marine Recreational Fishing in the Southeastern United States. *Ecological Economics* 21(3): 243-254.
- Benson, E.D., J.L. Hansen, J. Arthur, L. Schwartz, and G.T. Smersh. 1998. Pricing Residential Amenities: the Value of a View. *Journal of Real Estate Finance and Economics* 16: 55-73.
- Bento, A.M. and M. Jacobsen. 2007. Ricardian rents, environmental policy and the 'double-dividend' hypothesis. *Journal of Environmental Economics and Management* 53(1): 17-31.

References

- Bergstrom, J.C. and L.O. Taylor. 2006. Using Meta-Analysis for Benefits Transfer: Theory and Practice. *Ecological Economics* 60: 351-360.
- Berman, E., and L. T.M. Bui. 2001. Environmental Regulation and Labor Demand: Evidence from the South Coast Air Basin. *Journal of Public Economics* 79(2): 265-295.
- Berndt, E.R. 1991. *The Practice of Econometrics: Classic and Contemporary*. Boston: Addison-Wesley.
- Bin, O. and S. Polasky. 2005. Evidence on the Amenity Value of Wetlands in a Rural Setting. *Journal of Agricultural and Applied Economics* 37(3): 589-602.
- Birdsall, N. and A. Steer. 1993. Act Now on Global Warming — but Don't Cook the Books. *Finance & Development* 30(1): 6-8.
- Bishop, R.C., P.A. Champ, T.C. Brown, and D.W. McCollum. 1997. Non-Use Values: Theory and Empirical Applications. In *Determining the Value of Non-Market Goods: Economic, Psychological, and Policy Relevant Aspects of Contingent Valuation Methods*, ed. R. Kopp, W. Pommerehne, and N. Schwarz, 59-82. Boston: Kluwer.
- Bishop, R.C. and T. Heberlein. 1979. Measuring Values of Extra-Market Goods: Are Indirect Measures Biased? *American Journal of Agricultural Economics* 61: 926-930.
- Black, D., J. Galdo and L. Liu. 2003. *How Robust Are Hedonic Wage Estimates of the Price of Risk: The Final Report*. EPA Document R 82943001.
- Black, D.A. and T.J. Kniesner. 2003. On the Measurement of Job Risk in Hedonic Wage Models. *Journal of Risk and Uncertainty* 27(3): 205-220.
- Blackorby, C. and D. Donaldson. 1978. Measures of Relative Equality and Their Meaning in Terms of Social Welfare. *Journal of Economic Theory* 18: 59-80.
- Blackorby, C. and D. Donaldson. 1980. A Theoretical Treatment of Indices of Absolute Inequality. *International Economic Review* 21(1): 107-136.
- Blomquist, G. 2004. Self-protection and Averting Behavior, Values of Statistical Lives, and Benefit Cost Analysis of Environmental Policy. *Review of Economics of the Household* 2: 89-110.
- Blomquist, G.C., K. Blumenschein, and M. Johannesson. 2009. Eliciting Willingness to Pay without Bias Using Follow-Up Certainty Statements: Comparisons between Probably/Definitely and a 10-Point Certainty Scale. *Environmental and Resource Economics* 43(4): 473-502.
- Boadway, R. and N. Bruce. 1984. *Welfare Economics*. New York, NY: Basil Blackwell.
- Boardman, A.E., D.H. Greenberg, A.R. Vining, and D.L. Weimer. 1996. *Cost-Benefit Analysis: Concepts and Practice*. Upper Saddle River, NJ: Prentice Hall.
- Boardman, A.E., D.H. Greenberg, A.R. Vining, and D.L. Weimer. 2006. *Cost-Benefit Analysis: Concepts and Practice*. 3rd Ed. Upper Saddle River, NJ: Prentice Hall.
- Bockstael, N.E. and K.E. McConnell. 1993. Public Goods as Characteristics of Non-market Commodities. *Economic Journal* 103(420): 1244-1257.
- Bockstael, N.E., M.W. Hanemann, and C.L. Kling. 1987a. Estimating the Value of Water Quality Improvements in a Recreational Demand Framework. *Water Resources Research* 23(5): 951-960.
- Bockstael, N.E., I.E. Strand, and W.M. Hanemann. 1987b. Time and the Recreation Demand Model. *American Journal of Agricultural Economics* 69: 293-302.

- Bockstael, N.E., K.E. McConnell, and I.E. Strand. 1991. Recreation, in Environmental Health Effects. In *Measuring the Demand for Environmental Quality*, ed. J. Braden and C. Kolstad. North Holland: Elsevier Science Publishers.
- Boer, T., M. Pastor, J. Sadd, and L. Snyder. 1997. Is There Environmental Racism? The Demographics of Hazardous Waste in Los Angeles County. *Social Science Quarterly* 78(4): 793–809.
- Bovenberg, A.L. and R. de Mooij. 1994. Environmental Levies and Distortionary Taxes. *American Economic Review* 84(5): 1085-1089.
- Bovenberg, A.L. and L.H. Goulder. 1996. Optimal Taxation in the Presence of Other Taxes: General-Equilibrium Analysis. *American Economic Review* 86(4): 985-1000.
- Bowen, W. 2001. *Environmental Justice Through Research-Based Decision Making*. New York: Garland.
- Boxall, P.C. 1995. The Economic Value of Lottery-rationed Recreational Hunting. *Canadian Journal of Agricultural Economics* 43: 119-131.
- Boxall, P.C., J. Englin, and W.L. Adamowicz. 2003. Valuing Aboriginal Artifacts: A Combined Revealed-Stated Preference Approach. *Journal of Environmental Economics and Management* 45: 213-230.
- Boxall, P.C., D.O. Watson, and J. Englin. 1996. Backcountry Recreationists' Valuation of Forest and Park Management Features in Wilderness Parks of the Western Canadian Shield. *Canadian Journal of Forest Research* 26(6): 982-990.
- Boyd, J. 2002. Financial Responsibility for Environmental Obligations: Are Bonding and Assurance Rules Fulfilling Their Promise? *Research in Law and Economics* 20: 417-486.
- Boyd, J. and S. Banzhaf. 2007. What are Ecosystem Services? The Need for Standardized Environmental Accounting Units. *Ecological Economics* 63(2/3): 616-626.
- Boyd, J. and A. Krupnick. 2009. The Definition and Choice of Environmental Commodities for Nonmarket Valuation. *Resources for the Future Discussion Paper #09-35*, Washington, DC Available at: <http://www.rff.org/RFF/Documents/RFF-DP-09-35.pdf> (accessed November 10, 2009).
- Boyle, K.J., T.P. Holmes, M.F. Teisl, and B. Roe. 2001. A Comparison of Conjoint Analysis Response Formats. *American Journal of Agricultural Economics* 83(2): 441-454.
- Boyle, K.J., F.R. Johnson, D.W. McCollum, W.H. Desvouges, R.W. Dunford, and S.P. Hudson. 1993. Valuing Public Goods: Discrete versus Continuous Contingent Valuation Responses. *Land Economics* 72(3): 267-286.
- Boyle, K.J. and S. Özdemir. 2009. Convergent Validity of Attribute-Based, Choice Questions in Stated-Preference Studies. *Journal of Environmental and Resource Economics* 42: 247-264.
- Boyle, K.J., G.L. Poe, and J.C. Bergstrom. 1994. What Do We Know About Groundwater Values? Preliminary Implications from a Meta Analysis of Contingent-Valuation Studies. *American Journal of Agricultural Economics* 76: 1055-1061.
- Boyle, K.J., M.P. Welsh, and R.C. Bishop. 1988. Validation of Empirical Measures of Welfare Change: A Comparison of Nonmarket Techniques: Comment and Extension. *Land Economics* 64(1): 94-98.
- Brajer, V. and J.V. Hall. 2005. Changes in the Distribution of Air Pollution Exposure in the Los Angeles Basin from 1990-1999. *Contemporary Economic Policy* 23(1): 50-58.

References

- Brännlund, R. and T. Lundgren. 2009. Environmental Policy without Costs? A Review of the Porter Hypothesis. *International Review of Environmental and Resource Economics* 3(2): 75-117.
- Brouhle, K. and M. Khanna. 2007. Information and the Provision of Quality-Differentiated Goods. *Economic Inquiry* 45(2): 377-395.
- Brouhle, K., C. Griffiths, and A. Wolverton. 2005. The Use of Voluntary Approaches for Environmental Policymaking in the U.S. In *The Handbook of Environmental Voluntary Agreements*, ed. E. Croci. The Netherlands: Kluwer Academic Publishers.
- Brouhle, K., C. Griffiths, and A. Wolverton. 2009. Evaluating the Role of EPA Policy Levers: An Examination of a Voluntary Program and Regulatory Threat in the Metal Finishing Industry. *Journal of Environmental Economics and Management* 57(2): 166-181.
- Brouwer, R. 2000. Environmental value transfer: state of the art and future prospects. *Ecological Economics* 32(1): 137-152.
- Brown, G.J. and R. Mendelsohn. 1984. The Hedonic Travel Cost Method. *Review of Economics and Statistics* 66: 427-33.
- Brown, Jr., G. and J. Shogren. 1998. Economics of the Endangered Species Act. *Journal of Economic Perspectives* 12: 3-20.
- Brown, T.C., P.A. Champ, R.C. Bishop, and D.W. McCollum. 1996. Which Response Format Reveals the Truth about Donations to a Public Good? *Land Economics* 72(2): 152-166.
- Buchanan, Jr., J.M. 1969. External Diseconomies, Corrective Taxes, and Market Structure. *American Economic Review* 59: 174-177.
- Bullard, R. D. 1983. Solid Waste Sites and the Black Houston Community. *Sociological Inquiry* 53: 273-288.
- Burtraw, D. and D. Bohi. 1997. SO₂ Allowance Trading: How Do Expectations and Experience Measure Up? *The Electricity Journal* 10(7): 67-75.
- Burtraw, D., D.A. Evans, A. Krupnick, K. Palmer, and R. Toth. 2005. Economics of Pollution Trading for SO₂ and NO_x. *Annual Review of Environment and Resources* 30: 253-289.
- Burtraw, D., A. Krupnick, E. Mansur, D. Austin and D. Farrell. 1998. Costs and Benefits of Reducing Air Pollutants Related to Acid Rain. *Contemporary Economic Policy* 16(4): 379-400.
- Burtraw, D. and K. Palmer. 2004. SO₂ Cap-and-Trade Program in the United States: A 'Living Legend' of Market Effectiveness. In *Choosing Environmental Policy: Comparing Instruments and Outcomes in the United States and Europe*, ed. W. Harrington, R.D. Morgenstern, and T. Sterner. Washington DC: Resources for the Future.
- Butler, R.J. 1983. Wage and Injury Rate Response to Shifting Levels of Workers' Compensation, In *Safety and the Work Force: Incentives and Disincentives in Worker's Compensation*, ed. J.D. Worrall. Ithaca: Cornell University, ILR Press.
- Cairns, J. 2006. Developments in Social Discounting: With Special Reference to Future Health Effects. *Resource and Energy Economics* 28(3): 282-297.
- Callan, S.J. and J.M. Thomas. 1999. *Environmental Economics and Management: Theory, Policy and Applications*. Fort Worth: The Dryden Press.
- Cameron, T.A., G.D. Crawford, and I.T. McConnaha. 2012. Superfund Taint and Neighborhood Change: Ethnicity, Age Distributions, and Household Structure. In *The Political Economy of Environmental Justice*, ed. H.S. Banzhaf. California: Stanford University Press.

- Cameron, T.A. and J.R. DeShazo. 2008. Demand for Health Risk Reductions. Working Paper. University of Oregon. Available at: http://www.uoregon.edu/%7Ecameron/vita/Manuscript_20051269R2.pdf (accessed November 20, 2009).
- Cameron, T.A. and D.D. Huppert. 1991. Referendum Contingent Valuation Estimates: Sensitivity to the Assignment of Offered Values. *Journal of American Statistics Association* 86(416): 910-918.
- Cameron, T.A. and M.D. James. 1987. Efficient Estimation Methods for Use with 'Closed-Ended' Contingent Valuation Survey Data. *Review of Economics and Statistics* 69: 269-276.
- Cameron, T.A. and J. Quiggin. 1994. Estimation Using Contingent Valuation Data from a 'Dichotomous Choice with Follow-Up' Questionnaire. *Journal of Environmental Economics and Management* 27: 218-234.
- Cameron, T.A. and J. Quiggin. 1998. Estimation Using Contingent Valuation Data from a 'Dichotomous Choice with Follow-Up' Questionnaire: Reply. *Journal of Environmental Economics and Management* 35(2): 195-199.
- Carbone, J.C. and V. K. Smith. 2008. Evaluating Policy Interventions with General Equilibrium Externalities. *Journal of Public Economics* 92(5-6): 1254-1274.
- Card, D. and A.B. Krueger. 1995. Time-Series Minimum-Wage Studies: A Meta-analysis. Papers and Proceedings of the Hundredth and Seventh Annual Meeting of the American Economic Association, Washington, DC, January 6-8, 1995. *The American Economic Review* 85(2): 238-243.
- Carlson, C., D. Burtraw, M. Cropper, and K. Palmer. 2000. SO₂ Control by Electric Utilities: What Are the Gains from Trade? *Journal of Political Economy* 108(6): 1292-1326.
- Carlsson, F. and P. Martinsson. 2001. Do Hypothetical and Actual Marginal Willingness to Pay Differ in Choice Experiments?: Application to the Valuation of the Environment. *Journal of Environmental Economics and Management* 41(2): 179-192.
- Carson, R.T. and R.C. Mitchell. 1993. The Benefits of National Water Quality Improvements: A Contingent Valuation Study. *Water Resources Research* 29: 2445-2454.
- Carson, R.T., N.E. Flores, and W.M. Hanemann. 1998. Sequencing and Valuing Public Goods. *Journal of Environmental Economics and Management* 36(3): 314-323.
- Carson, R.T., N. Flores, and N. Meade. 2001. Contingent Valuation: Controversies and Evidence. *Environmental and Resource Economics* 19(2): 173-210.
- Carson, R.T., W.M. Hanemann and R.C. Mitchell. 1987a. The Use of Simulated Political Markets to Value Public Goods. Discussion Paper 87-7, Department of Economics, University of California, San Diego, March.
- Carson, R.T., W.D. Shaw, S.E. Ragland, and J.L. Wright. 1996. Using Actual and Contingent Behavior Data with Differing Levels of Time Aggregation to Model Recreation Demand. *Journal of Agricultural and Resource Economics* 21: 130-149.
- Carthy, T.S. Chilton, J. Covey, L. Hopkins, M. Jones-Lee, G. Loomes, N. Pidgeon, and A. Spencer. 1999. On the Contingent Valuation of Safety and the Safety of Contingent Valuation: Part 2 — The CV/SV "Chained" Approach. *Journal of Risk and Uncertainty* 17(3): 187-213.
- Chakraborty, J. and J. Maantay. 2011. Proximity Analysis for Exposure Assessment in Environmental Health Justice Research. In *Geospatial Analysis of Environmental Health*, ed. J. Maantay and S. McLafferty. Springer Science+ Business Media.

References

- Champ, P.A., R.C. Bishop, T.C. Brown, and D.W. McCollum. 1997. Using donation mechanisms to value nonuse benefits from public goods. *Journal of Environmental Economics and Management* 33(2): 151-162.
- Chestnut, L.G. 1997. Draft Memorandum: Methodology for Estimating Values for Changes in Visibility at National Parks. April 15.
- Chestnut, L.G. and D.M. Mills. 2005. A fresh look at the benefits and costs of the U.S. Acid Rain Program. *Journal of Environmental Management* 77(3): 252-256.
- Chestnut, L.G. and R.D. Rowe. 1990. A New National Park Visibility Value Estimates. In *Visibility and Fine Particles, Transactions of an AWMA/EPA International Specialty Conference*, ed. C.V. Mathai. Air and Waste Management Association, Pittsburgh.
- Chestnut, L.G., M.A. Thayer, J.K. Lazo, and S.K. Van Den Eeden. 2006. The Economic Value of Preventing Respiratory and Cardiovascular Hospitalizations. *Contemporary Economic Policy* 24(1): 127-143.
- Chiang, A.C. 1984. *Fundamental Methods of Mathematical Economics*. New York: McGraw-Hill.
- Citro, C.F. and R. T. Michael, eds. 1995. *Measuring Poverty: A New Approach*. Washington, DC: National Academy Press.
- Clapp, J.M. 1990. A Methodology for Constructing Vacant Land Price Indexes. *AREUEA Journal* 18(3): 274-293.
- Clark, C.W. 1990. *Mathematical Bioeconomics: The Optimal Management of Renewable Resources*. 2nd Ed. New York, NY: John Wiley & Sons.
- Coase, R. 1960. The Problem of Social Cost. *The Journal of Law and Economics* 3: 1-44.
- Cooper, J. and J. Loomis. 1992. Sensitivity of Willingness-to-Pay Estimates to Bid Design in Dichotomous Choice Contingent Valuation Models. *Land Economics* 68(2): 211-224.
- Costanza, R., O. Pérez-Maqueo, M.L. Martinez, P. Sutton, S.J. Anderson, and K. Mulder. 2008. The Value of Coastal Wetlands for Hurricane Protection. *AMBIO: A Journal of the Human Environment* 37(4): 241-248.
- Costello, C. and M. Ward. 2006. Search, Bioprospecting and Biodiversity Conservation. *Journal of Environmental Economics and Management* 52(3): 615-626.
- Council on Environmental Quality (CEQ). 1997. *Environmental Justice: Guidance Under the National Environmental Policy Act*, December 10, 1997. Available at: http://www.epa.gov/compliance/ej/resources/policy/ej_guidance_nepa_ceq1297.pdf (accessed November 30, 2011).
- Cousineau J.M., R. Lacroix, and A.M. Girard. 1988. Occupational hazard and wage compensating differentials. University of Montreal Working Paper.
- Covey, J., M. Jones-Lee, G. Loomes, and A. Robinson. 1995. The Exploratory Empirical Study. In *Exploratory Study of Consumers' Willingness to Pay for Food Risk Reductions*, Report to the Ministry of Agriculture, Fisheries and Food, ed. D. Ives, B. Soby, G. Goats, and D.J. Ball.
- Coyne, A. and W. Adamowicz. 1992. Modeling Choice of Site for Hunting Bighorn Sheep. *Wildlife Society Bulletin* 20: 26-33.
- Creel, M.D., J.B. Loomis. 1990. Theoretical and Empirical Advantages of Truncated Count Data Estimators for Analysis of Deer Hunting in California. *American Journal of Agricultural Economics* 72(2): 434-441.

- Cropper, M.L., S.K. Aydede, and P.R. Portney. 1994. Preferences for Life-Saving Programs: How the Public Discounts Time and Age. *Journal of Risk and Uncertainty* 8: 243-265.
- Cropper, M.L. and A.M. Freeman. 1991. Environmental Health Effects. In *Measuring the Demand for Environmental Quality*, ed. J. Braden and C. Kolstad. Amsterdam, the Netherlands: Elsevier Science Publishers.
- Cropper, M.L. and F.G. Sussman. 1988. Families and the Economics of Risks to Life. *American Economic Review* 78(1): 255-60.
- Cropper, M.L. and F.G. Sussman. 1990. Valuing Future Risks to Life. *Journal of Environmental Economics and Management* 19: 160-174.
- Cropper, M.L. and P.R. Portney. 1990. Discounting and the Evaluation of Lifesaving Programs. *Journal of Risk and Uncertainty* 3:369-379.
- Cummings, R.G. and L.O. Taylor. 1999. Unbiased Value Estimates for Environmental Goods: A Cheap Talk Design for the Contingent Valuation Method. *American Economic Review* 89(30): 649-665.
- Cummings, R.G., D.S. Brookshire, and W.D. Schulze, eds. 1986. *Valuing Environmental Goods: An Assessment of the Contingent Valuation Method*. Totowa, NJ: Rowman and Allanheld.
- Cummings, R.G., G.W. Harrison, and E. Rutstro. 1995. Homegrown values and hypothetical surveys: do dichotomous choice questions elicit real economic commitments? *The American Economic Review* 85(1): 260-266.
- de Groot, R.S., M.A. Wilson, and R.M.J Boumans. 2002. A Typology for the Classification, Description and Valuation of Ecosystem Functions, Goods and Services. *Ecological Economics* 41: 393-408.
- Daily, G.C., ed. 1997. *Nature's Services: Societal Dependence on Natural Ecosystems*. Washington, DC: Island Press.
- Dale, L., J.C. Murdoch, M.A. Thayer and P.A. Wadell. 1999. Do Property Values Rebound from Environmental Stigmas? Evidence from Dallas. *Land Economics* 75(2): 311-326.
- Dantzig, G.B., 1957. Discrete-variable extremum problems. *Operations Research* 5(2): 266-277.
- Dasgupta, P. 1982. Resource Depletion, Research and Development, and the Social Rate of Return. In *Discounting for Time and Risk in Energy Policy*, ed. R.C. Lind. Washington, DC: Resources for the Future.
- Dasgupta, P. 2002. Modern economics and its critics. In *Fact and Fiction in Economics: Models, Realism and Social Construction*, ed. U. Maki. Cambridge, UK: Cambridge University Press.
- Desvouges, W.H., F.R. Johnson, and H.S. Banzhaf. 1998. *Environmental Policy Analysis with Limited Information: Principles and Applications of the Transfer Method*. Northampton, MA: Edward Elgar.
- Desvouges, W.H., F.R. Johnson, S.P. Hudson, S.R. Gable, and M.C. Ruby. 1996. *Using Conjoint Analysis and Health-State Classifications to Estimate the Value of Health Effects of Air Pollution*, Triangle Economic Research, Raleigh, NC.
- Desvouges, W.H., M. Naughton, and G. Parsons. 1992. Benefit Transfer: Conceptual Problems in Estimating Water Quality Benefits Using Existing Studies. *Water Resources Research* 28(3): 675-683.
- Diamond, P. 1996. Testing the Internal Consistency of Contingent Valuation Surveys. *Journal of Environmental Economics and Management* 30(3): 337-347.

References

- Dietz, T. and P.C. Stern, eds. 2008. *Public Participation in Environmental Assessment and Decision Making*. National Research Council, Washington, DC.
- Dillingham, A.E. 1985. The Influence of Risk Variable Definition on Value of Life Estimates. *Economic Inquiry* 24 (April): 277-294.
- Dixon, P., B. Parmenter, A. Powell, and P. Wilcoxen. 1992. Notes and Problems in Applied General Equilibrium Economics. In *Advanced Textbooks in Economics*, ed. C.J. Bliss and M.D. Intriligator. North Holland Press.
- Donatuto, J. and B.L. Harper. 2008. Issues in Evaluating Fish Consumption Rates for Native American Tribes. *Risk Analysis* 28(6): 1497-1506.
- Dreyfus, M. and W.K. Viscusi. 1995. Rates of Time Preference and Consumer Valuations of Automobile Safety and Fuel Efficiency. *Journal of Law and Economics* 38(1): 79-105.
- Durlauf, S.N. 2004. Neighborhood Effects. In *Handbook of Regional and Urban Economics*, vol. 4, ed. J.V. Henderson and J.F. Thisse, Amsterdam: North Holland, 2004.
- Dutton, J.M. and A. Thomas. 1984. Treating Progress Functions as a Management Opportunity. *Academy of Management Review* 9(2): 235-247.
- Deckhoudt, L.R. and J.K. Hammitt. 2001. Background Risks and the Value of a Statistical Life. *Journal of Risk and Uncertainty* 23(3): 261-279.
- Ehrlich, I. and H. Chuma. 1990. A Model of the Demand for Longevity and the Value of Life Extension. *Journal of Political Economy* 98(4): 761-782.
- Ekeland, I., J. Heckman, and L. Nesheim. 2004. Identification and Estimation of Hedonic Models. *Journal of Political Economy* 112: S60-S109.
- Ellerman, D. 2003. Are Cap-and-Trade Programs More Environmentally Effective Than Conventional Regulation? MIT, Center for Energy and Environment Policy Research, Working Paper, 03-15.
- Ellerman, A.D., P.L. Joskow, R. Schmalensee, J.P. Montero, and E. Bailey. 2000. *Markets for Clean Air: The U.S. Acid Rain Program*. Cambridge: Cambridge University Press.
- Ellis, G.M. and A.C. Fisher. 1987. Valuing the environment as input. *Journal of Environmental Management* 25(2): 149-156.
- Eom, Y.S. and D.M. Larson. 2006. Improving Environmental Valuation Estimates through Consistent Use of Revealed and Stated Preference Information. *Journal of Environmental Economics and Management* 32: 209-221.
- Ethier, R.G., G.L. Poe, W.D. Schulze, and J. Clark. 2000. A Comparison of Hypothetical Phone and Mail Contingent Valuation Responses for Green-Pricing Electricity Programs. *Land Economics* 76(1): 54-67.
- Evans, D.A., H.S. Banzhaf, D. Burtraw, A.J. Kurpnick, J. Siikamaki. 2008. Improvements Using Stated Preference Methods: an Example from Reducing Acidification in the Adirondacks Park. In: *Saving Biological Diversity: Balancing Protection of Endangered Species and Ecosystems* ed. Askins R.A., G.D. Dreyer, G.R. Visgilio, D.M. Whitelaw. New York, NY: Springer.
- Evans, M.F. and V.K. Smith. 2006. Do We Really Understand the Age-VSL Relationship? *Resource and Energy Economics* 28: 242-261.
- Executive Office of the President. Economic Report of the President, Transmitted to the Congress, February (annual report). Washington, DC: U.S. Government Printing Office.

- Executive Order 12866: Regulatory Planning and Review, Section 1(a), October 4, 1993. Available at: <http://www.whitehouse.gov/omb/inforeg/eo12866.pdf> (accessed January 31, 2011).
- Executive Order 12898: Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, February 11, 1994. Available at: <http://www.epa.gov/fedrgstr/eo/eo12898.pdf> (accessed January 31, 2011).
- Executive Order 13045: Protection of Children from Environmental Health Risks and safety Risks, April 23, 1997. Available at: <http://www.epa.gov/fedrgstr/eo/eo13045.htm> (accessed January 31, 2011).
- Executive Order 13132: Federalism, August 10, 1999. Available at: <http://www.epa.gov/fedrgstr/eo/eo13132.htm> (accessed January 31, 2011).
- Executive Order 13166: Improving Access to Services for Persons with Limited English Proficiency, August 11, 2000. Available at: <http://www.justice.gov/crt/about/cor/Pubs/eolep.php> (accessed January 8, 2013).
- Executive Order 13175: Consultation and Coordination with Indian Tribal Governments, November 9, 2000. Available at: <http://www.epa.gov/fedrgstr/eo/eo13175.htm> (accessed January 31, 2011).
- Executive Order 13211: Actions Concerning Regulations that Significant Affect Energy Supply, Distribution, or Use, May 18, 2001. Available at: <http://www.epa.gov/fedrgstr/eo/eo13211.htm> (accessed January 31, 2011).
- Executive Order 13422: Further Amendment to Executive Order 12866 on Regulatory Planning and Review, January 18, 2007. Available at: <http://edocket.access.gpo.gov/2007/pdf/07-293.pdf> (accessed January 31, 2011).
- Executive Order 13497: Revocation of Certain Executive Orders Concerning Regulatory Planning and Review, January 30, 2009. Available at: <http://edocket.access.gpo.gov/2009/pdf/E9-2486.pdf> (accessed January 31, 2011).
- Fann, N., H.A. Roman, C.M. Fulcher, M.A. Gentile, B.J. Hubbell, K. Wesson, and J.I. Levy. 2011. Maximizing Health Benefits and Minimizing Inequality: Incorporating Local Scale Data in the Design and Evaluation of Air Quality Policies. *Risk Analysis* 31(6): 908-922.
- Faustmann, M. 1848. Calculation of the Value Which Forest Land and Immature Stands Possess for Forestry. *Allgemeine Forst – und Jagd-Zeitung*, vol 15. Reprinted in the *Journal of Forest Economics* 1(1), 1995.
- Feather, P.M. 1994. Sampling and Aggregation Issues in Random Utility Model Estimation. *American Journal of Agricultural Economics* 76: 772-780.
- Feather, P. and D. Hellerstein. 1997. Calibrating Benefits Function Transfer to Assess the Conservation Reserve Program. *American Journal of Agricultural Economics* 79(1): 151-162.
- Feather, P. and W.D. Shaw. 1999. Estimating the Cost of Leisure Time for Recreation Demand Models. *Journal of Environmental Economics and Management* 38: 49-65.
- Federal Register. 1978. Statistical Policy Directive No. 14, Definition of Poverty for Statistical Purposes, May 4, 1978. *Federal Register* 43(87): 19269.
- Federation of Tax Administration. State Tax Rates & Structure, 12 May 12, 2004. Available at: <http://www.taxadmin.org/fta/rate/default.html> (accessed January 31, 2011).
- Field, B.C. and M.K. Field. 2005. *Environmental Economics: An Introduction*. 4th Ed. New York: McGraw-Hill/Irwin.

References

- Finnoff, D. and J. Tschirhart. 2008. Linking Dynamic Ecological and Economic General Equilibrium Models. *Resource and Energy Economics* 30(2): 91-114.
- Fischhoff, B. and L. Furby. 1988. Measuring Values: A Conceptual Framework for Interpreting Transactions with Special Reference to Contingent Valuation of Visibility. *Journal of Risk and Uncertainty* 1: 147-184.
- Fischhoff, B., P. Slovic, S. Lichenstein, S. Reed, and B. Combs. 1978. How Safe is Safe Enough? A Psychometric Study of Attitudes Towards Technological Risks and Benefits. *Policy Sciences* 9: 127-152.
- Fisher, B., S. Barrett, P. Bohm, J. Mubazi, A. Shah, and R. Stavins. 1995. An Economic Assessment of Policy Instruments to Combat Climate Change. Report of the Working Group III of the Intergovernmental Panel on Climate Change. Switzerland.
- Fisher, B. and R.K. Turner. 2008. Ecosystem Services: Classification for Valuation. *Biological Conservation* 141: 1167-1169.
- Fisher, B., R.K. Turner, and P. Morling. 2009. Defining and Classifying Ecosystem Services for Decision Making. *Ecological Economics* 68(3): 643-653.
- Florax, R.J.G.M., P. Nijkamp, and K.G. Willis. 2002. *Comparative Environmental Assessment*. Northampton, Mass: Edward Elgar.
- Flores, N.E. and R.T. Carson. 1997. The Relationship between the Income Elasticities of Demand and Willingness to Pay. *Journal of Environmental Economics and Management* 33: 287-295.
- Fowlie, M., S.P. Holland, and E.T. Mansur. 2012. What Do Emissions Markets Deliver and to Whom? Evidence from Southern California's NOx Trading Program. *American Economic Review* 102(2): 965-93.
- Frederick, S., G. Lowenstein, and T. O'Donoghue. 2002. Time Discounting and Time Preference: A Critical Review. *Journal of Economic Literature* 40: 351-401.
- Freeman III, A.M. 1991. Valuing Environmental Resources under Alternative Management Regimes. *Ecological Economics* 3(3): 247-256.
- Freeman III, A.M. 2003. *The Measurement of Environmental and Resource Values: Theory and Methods*. 2nd Ed. Washington, DC: Resources for the Future.
- Freeman, M.C. 2009. Yes, We Should Discount the Far-Distant Future at Its Lowest Possible Rate: A Resolution of the Weitzman-Gollier Puzzle. Discussion Paper. Available at: <http://www.economics-ejournal.org/economics/discussionpapers/2009-42> (accessed January 31, 2011).
- Fullerton, D. 1996. Why Have Separate Environmental Taxes? In *Tax Policy and the Economy*, ed. J. Proterba. Cambridge: MIT Press.
- Fullerton, D. 2009. Distributional Effects of Environmental and Energy Policy: An Introduction. In *Distributional Effects of Environmental and Energy Policy*, ed. D. Fullerton. Aldershot, UK: Ashgate.
- Fullerton, D. 2011. Six Distributional Effects of Environmental Policy. *Risk Analysis* 31(6): 923-929.
- Fullerton, D. and A. Wolverton. 2001. The Case for a Two-Part Instrument: Presumptive Tax and Environmental Subsidy. In *The Economics of Household Garbage and Recycling Behavior*, ed. Fullerton, D. and T. Kinnaman. Cheltenham, U.K.: Edward Elgar.
- Fullerton, D. and A. Wolverton. 2005. The Two-Part Instrument in a Second-Best World. *Journal of Public Economics* 89: 1961-1975.

- General Accounting Office (GAO). 1983. Siting of Hazardous Waste Landfills and Their Correlation with Racial and Economic Status of Surrounding Communities. Report GAO/RCED-83-168.
- GAO. 1990. Solid Waste: Trade-Offs Involved in Beverage Container Deposit Legislation, GAO/RCED-91-25, Resources, Community and Economic Development Division.
- Garen, J. 1988. Compensating wage differentials and the endogeneity of job riskiness. *The Review of Economics and Statistics* 70(1): 9-16.
- Gegax, D., S. Gerking, and W. Schulze. 1985. Perceived Risk and the Marginal Value of Safety. *The Review of Economics and Statistics*. 73(4): 589-596.
- General Accounting Office (GAO). 1983. *Siting of Hazardous Waste Landfills and Their Correlation with Racial and Economic Status of Surrounding Communities*, June 1, 1983. Available at: <http://archive.gao.gov/d48t13/121648.pdf> (accessed November 30, 2011).
- Geoghegan, J., L.A. Wainger, and N.E. Bockstael. 1997. Analysis of Spatial Landscape Indices in a Hedonic Framework: an Ecological Economics Analysis Using GIS. *Ecological Economics* 23: 251-264.
- Geolytics: Demographic Data & Estimates Business & Marketing Information GIS & Mapping. Neighborhood Change Database (NCDB). 2 Dec. 2004. Available at: <http://www.geolytics.com/USCensus,Neighborhood-Change-Database-1970-2000,Products.asp> (accessed January 31, 2011).
- Gerking, S., M. de Haan, and W. Schulze. 1988. The Marginal Value of Job Safety: A Contingent Valuation Study. *Journal of Risk and Uncertainty* 1(2): 185-200.
- Gintis, H. 2000. Beyond Homo Economicus: Evidence From Experimental Economics. *Ecological Economics* 35(3): 311-322.
- Gochfeld, M. and J. Burger. 2011. Disproportionate Exposures in Environmental Justice and Other Populations: The Importance of Outliers. *American Journal of Public Health*, Supplement 1 101(51): S53-S63.
- Gold, M.R., J.E. Siegel, L.B. Russell, and M.C. Weinstein, eds. 1996. *Cost Effectiveness in Health and Medicine*, New York, NY: Oxford University Press.
- Gollier, C. 2004. Maximizing the Expected Net Future Value as an Alternative Strategy to Gamma Discounting. *Finance Research Letters* 1(2): 85-89.
- Gollier, C. 2009. Expected Net Present Value, Expected Net Future Value, and the Ramsey Rule. CESifo Working Paper #2643.
- Gollier, C. and M.L. Weitzman. 2009. How Should the Distant Future be Discounted When Discount Rates are Uncertain? Working paper. Available at: [www.economics.harvard.edu/faculty/weitzman/files/discountinglongterm\(2\).pdf](http://www.economics.harvard.edu/faculty/weitzman/files/discountinglongterm(2).pdf) (accessed January 31, 2011).
- Gollier, C. and J. Zeckhauser. 2005. Aggregation of Heterogeneous Time Preferences. *Journal of Political Economy* 113(4): 878-896.
- Goulder, L.H. 1995. Environmental Taxation and the Double Dividend: A Reader's Guide. *International Tax and Public Finance* 2(2): 157-183.
- Goulder, L.H. 2000. Environmental Policy Making in a Second-Best Setting. In *Economics of the Environment: Selected Readings*, 4th Ed. ed. R. Stavins. New York: W.W. Norton.

References

- Goulder, L.H. and I.W.H. Parry. 2008. Instrument Choice in Environmental Policy Design. *Review of Environmental Economics and Policy* 2: 152-174.
- Goulder, L., I.W.H. Parry, and D. Burtraw. 1997. Revenue-Raising Versus Other Approaches to Environmental Protection: The Critical Significance of Preexisting Tax Distortions. *RAND Journal of Economics* 28(4): 708-731.
- Goulder, L., I.W.H. Parry, R.C. Williams III, and D. Burtraw. 1999. The cost-effectiveness of alternative instruments for environmental protection in a second-best setting. *Journal of Public Economics* 72(3): 329-360.
- Government Accounting Office (GAO). 1994. Air Pollution: Allowance Trading Offers an Opportunity to Reduce Emissions at Less Cost. GAO/RCED-95-30. Washington, DC.
- Grainger, C. A. 2012. The Distributional Effects of Pollution Regulations: Do Renters Fully Pay for Cleaner Air? *Journal of Public Economics* 96: 840-852.
- Gray, W.B. and R.J. Shadbegian. 2004. 'Optimal' Pollution Abatement—Whose Benefits Matter, and How Much? *Journal of Environmental Economics and Management* 47: 510-534.
- Groom, B., C. Hepburn, P. Koundouri, and D. Pearce. 2005. Declining Discount Rates: The Long and the Short of It. *Environmental and Resource Economics* 32: 445-493.
- Groom, B., P. Koundouri, E. Panopoulou, and T. Pantelidis. 2007. Discounting the Distant Future: How Much Does Model Selection Affect the Certainty Equivalent Rate? *Journal of Applied Econometrics* 22(3): 641-656.
- Guo, J., J. Cameran, R.S. Hepburn, J. Tol, and D. Anthoff. 2006. Discounting and the Social Cost of Carbon: a Closer Look at Uncertainty. *Environmental Science and Policy* 9: 205-216.
- Guyse, J.L., L.R. Keller, and T. Eppel. 2002. Valuing Environmental Outcomes: Preferences for Constant or Improving Sequences. *Organizational Behavior and Human Decision Processes* 87(2): 253-277.
- Haab, T.C. and R.L. Hicks. 1997. Accounting for Choice Set Endogeneity in Random Utility Models of Recreation Demand. *Journal of Environmental Economics and Management* 34: 127-147.
- Haab, T.C. and K.E. McConnell. 2003. *Valuing Environmental and Natural Resources: The Econometrics of Non-Market Valuation*. Cheltenham, UK: Edward Elgar.
- Hahn, R. and R. Stavins. 1992. Economic Incentives for Environmental Protection: Integrating Theory and Practice. *American Economic Review* 82(3): 464-468.
- Hamilton, J. 1993. Politics and Social Costs: Estimating the Impact of Collective Action on Hazardous Waste Facilities. *RAND Journal of Economics* 24(1): 101-125.
- Hamilton, J. 1995. Pollution as News: Media and Stock Market Reactions to the Toxics Release Inventory Data. *Journal of Environmental Economics and Management* 28: 98-113.
- Hamilton, J. 1995. Testing for Environmental Racism: Prejudice, Profits, Political Power? *Journal of Policy Analysis and Management* 14(1): 107-132.
- Hammack, J. and G.M. Brown Jr. 1974. *Waterfowl and Wetlands: Toward Bioeconomic Analysis*. Washington, DC: Resources for the Future.
- Hammitt, J.K. 2002. QALYs versus WTP. *Risk Analysis* 22(5): 985-1001.
- Hammitt, J.K. 2003. Valuing Health: Quality Adjusted Life-Years or Willingness to Pay? *Risk in Perspective* 11(1): 1-6.

- Hammitt, J.K. and K. Haninger. 2007. Sensitivity to Duration and Severity of Illness. *American Journal of Agricultural Economics* 89(5): 1170-1175.
- Hammitt, J.K. and J.T. Liu. 2004. Effects of Disease Type and Latency on the Value of Mortality Risk. *Journal of Risk and Uncertainty* 28(1): 73-95.
- Hanemann, W.M. 1984. Welfare Evaluations in Contingent Valuation Experiments with Discrete Responses. *American Journal of Agricultural Economics* 66: 332-341.
- Hanemann, W.M. 1991. Willingness to Pay and Willingness to Accept: How Much Can They Differ? *American Economic Review* 81(3): 635-647.
- Hanley, N. and C.L. Spash. 1993. *Cost-Benefit Analysis and the Environment*. Cheltenham, Great Britain: Edward Elgar Publishing.
- Hanley, N., J. Shogren, and B. White. 2001. *Introduction to Environmental Economics*. Oxford University Press.
- Hanley, N., R.E. Wright, and B. Alvarez-Farizo. 2006. Estimating the Economic Value of Improvements in River Ecology Using Choice Experiments: an Application to the Water Framework Directive. *Journal of Environmental Management* 78: 183-193.
- Hansen, A.C. 2006. Do Declining Discount Rates Lead To Time Inconsistent Economic Advice? *Ecological Economics* 60 (1): 138-144.
- Harford, J.D. 1984. Averting Behavior and the Benefits of Reduced Soiling. *Journal of Environmental Economics and Management* 11: 296-302.
- Harrington, W. and P.R. Portney. 1987. Valuing the Benefits of Health and Safety Regulation. *Journal of Urban Economics* 22: 101-112.
- Harrington, W., R. Morgenstern, and T. Sterner, eds. 2004. *Choosing Environmental Policy: Comparing Instruments and Outcomes in the United States and Europe*. Washington, DC: Resources for the Future.
- Harrington, W., R.D. Morgenstern, and P. Nelson. 1999. On the Accuracy of Regulatory Cost Estimates. Resources for the Future Discussion Paper #99-18, Washington, DC.
- Harris, J. 2002. *Environmental and Natural Resource Economics: A Contemporary Approach*. Boston: Houghton Mifflin Co.
- Hay, M.J. and K.E. McConnell. 1979. An Analysis of Participation in Nonconsumptive Wildlife Recreation. *Land Economics* 55(4): 460-471.
- Hazilla, M. and R.J. Kopp. 1990. Social Costs of Environmental Quality Regulations: A General Equilibrium Analysis. *Journal of Political Economy* 98(4): 853-873.
- Heal, G.M. 1998. Valuing the future: economic theory and sustainability. In *Economics for a Sustainable Earth*, ed. G. Chichilnisky and G. Heal. New York: Columbia University Press.
- Heberlein, T.A., M.A. Wilson, R.C. Bishop, and N.C. Schaeffer. 2005. Rethinking the scope test as a criterion for validity in contingent valuation. *Journal of Environmental Economics and Management* 50(1): 1-22.
- Helfand, G. 1991. Standards versus Standards: The Effects of Different Pollution Restriction. *American Economic Review* 81(4): 622-634.
- Henderson, N. and I. Bateman. 1995. Empirical and Public Choice Evidence for Hyperbolic Social Discount Rates and the Implications for Intergenerational Discounting. *Environmental and Resource Economics* 5(4): 413-423.
- Hepburn, C. and B. Groom. 2007. Gamma Discounting and Expected Net Future Value. *Journal of Environmental Economics and Management* 53(1): 99-109.

References

- Hepburn, C., P. Koundouri, E. Panopoulou, and T. Pantelidis. 2009. Social Discounting Under Uncertainty: a Cross-Country Comparison. *Journal of Environmental Economics and Management* 57: 140-150.
- Herriges, J.A., C.L. Kling, and D.J. Phaneuf. 2004. What's the Use? Welfare Estimates from Revealed Preference Models when Weak Complementarity Does Not Hold. *Journal of Environmental Economics and Management* 47: 55-70.
- Herzog, Jr., H.W. and A.M. Schlottman. 1987. Valuing Risk in the Workplace: Market Price, Willingness to Pay, and the Optimal Provision of Safety. University of Tennessee Working Paper.
- Heyes, A.G. and C. Liston-Heyes. 1999. Corporate Lobbying, Regulatory Conduct and the Porter Hypothesis. *Environmental and Resource Economics* 13: 209-218.
- Hicks, J.R. 1941. The Rehabilitation of Consumers' Surplus. *The Review of Economic Studies* 8(2): 108-116.
- HM Treasury. 2008. *Intergenerational wealth transfers and social discounting: Supplementary Green Book Guidance*. Available at: ([http://www.hm-treasury.gov.uk/d/4\(5\).pdf](http://www.hm-treasury.gov.uk/d/4(5).pdf) (accessed February 27, 2010).
- Hoban, J.C. and T.J. Whitehead. 1999. Testing for Temporal Reliability in Contingent Valuation with Time for Changes in Factors Affecting Demand. *Land Economics* 75(3): 453.
- Holmes, T. and W. Adamowicz. 2003. Attribute Based Methods. In *A Primer on the Economic Valuation of the Environment*, ed. P. Champ, T. Brown and K. Boyle. Kluwer. pp. 171-219.
- Huang, J.C., T.C. Haab, and J.C. Whitehead. 1997. Willingness to Pay for Quality Improvements: Should Revealed and Stated Preference Data be Combined? *Journal of Environmental Economics and Management* 34: 240-255.
- Hunter, J. and F. Schmidt. 1990. *Methods of Meta-Analysis*. Newbury Park, CA: Sage.
- Hyman, J.B. and S.G. Leibowitz. 2000. A general framework for prioritizing land units for ecological protection and restoration. *Environmental Management* 25(1): 23-35.
- Ibbotson Associates, Inc. 2004. Stocks, Bonds, Bills, and Inflation Valuation Edition Yearbook. Chicago, IL (annual report).
- Ibbotson, R.G. and R.A. Sinquefield. 1984. Stocks, Bonds, Bills, and Inflation: The Past and the Future, Financial Analysts Research Foundation, 1982. Updates published as Stocks, Bonds, Bills and Inflation Yearbook, Annual, Chicago, IL: R.G. Ibbotson Associates, Inc.
- Iceland, J. 2003. *Dynamics of Economic Well-Being: Poverty 1996 – 1999*, Current Population Reports, P70-91. U.S. Census Bureau, Washington, DC.
- ICF. 1990. Comparison of the Economic Impacts of the Acid Rain Provisions of the Senate Bill (S. 1630) and the House Bill (S. 1630). Prepared for the U.S. Environmental Protection Agency, Washington, DC. July.
- ICF. 1995. Economic Analysis of Title IV Requirements of the 1990 Clean Air Act Amendments. Prepared for U.S. EPA, Washington, DC. September.
- Ihlenfeldt, K. and L. Taylor. 2004. Estimating the Economic Impacts of Environmentally Contaminated Properties in an Urban Area. *Journal of Environmental Economics and Management* 47: 117-139.

- Industrial Economics, Inc. (IEc). 2004. An Expert Judgment Assessment of the Concentration-Response Relationship between PM2.5 Exposure and Mortality. Prepared for U.S. EPA/OAQPS. April 23.
- IEc. 2005. An Overview of Major Economic Modeling Paradigms and Their Potential Application in OSWER Analyses. Final Report prepared for the U.S. EPA Office of Solid Waste and Emergency Response, Economics, Methods and Risk Analysis Division.
- Institute of Medicine (IOM). 2006. *Valuing Health for Regulatory Cost-Effectiveness Analysis*, ed. Wilhelmine Miller, Lisa A. Robinson, and Robert S. Lawrence. Washington, DC: The National Academies Press.
- Intergovernmental Panel on Climate Change (IPCC). 1996. Intertemporal Equity, Discounting, and Economic Efficiency. Chapter 4 of Climate Change 1995: Economic and Social Dimensions of Climate Change. Contributions of Working Group III to the Second Assessment Report of the Intergovernmental Panel on Climate Change. Melbourne, Australia: Cambridge University Press.
- Irwin, E.G. and N. Bockstael. 2002. Interacting Agents, Spatial Externalities, and the Endogenous Evolution of Residential Land Use Patterns. *Journal of Economic Geography* 2: 31-54.
- Irwin, E. 2002. The Effects of Open Space on Residential Property Values. *Land Economics* 78(4): 465-481.
- Israel, B.A., E.A. Parker, Z. Rowe, A. Salvatore, M. Minkler, J. Lopez, A. Butz, A. Mosley, L. Coates, G. Lambert, P.A. Potito, B. Brenner, M. Rivera, H. Romero, B. Thompson, G. Coronado, and S. Halstead. 2005. Community-Based Participatory Research: Lessons Learned from the Centers for Children's Environmental Health and Disease Prevention Research. *Environmental Health Perspectives* 113(10): 1463-1471.
- Just, R., D. Hueth, and A. Schmitz. 2004. *The Welfare Economics of Public Policy: A Practical Approach to Project and Policy Evaluation*. Edward Elgar.
- Jaffe, A.B. and K. Palmer. 1997. Environmental Regulation and Innovation: A Panel Data Study. *The Review of Economics and Statistics* 79(4): 610-619.
- Jaffe, A.B., S.R. Peterson, P.R. Portney, and R.N. Stavins. 1995. Environmental Regulation and the Competitiveness of U.S. Manufacturing: What Does the Evidence Tell Us? *Journal of Economic Literature* 33: 132-163.
- Jaffe, A.B. and R.N. Stavins. 1995. Dynamic Incentives of Environmental Regulations: The Effects of Alternative Policy Instruments on Technology Diffusion. *Journal of Environmental Economics and Management* 29: S43-S63.
- Jena, A., C. Mulligan, T.J. Philipson, and E. Sun. The Value of Life in General Equilibrium. NBER Working Paper 14157. Available at: <http://www.nber.org/papers/w14157> (accessed January 31, 2011).
- Johansson, P.O. 1995. *Evaluating Health Risks: an Economic Approach*. Cambridge, Great Britain: Cambridge University Press.
- Johansson, P.O. 2002. On the Definition and Age-Dependency of the Value of Statistical Life. *The Journal of Risk and Uncertainty* 25(3): 251-263.

References

- Johnson, F.R., M. Ruby, S. Banzhaf, and W.H. Desvouges. 2000. Willingness to pay for improved respiratory and cardiovascular health: a multiple-format, stated-preference approach. *Health Economics* 9(4): 295-317.
- Johnson, F.R. and W.H. Desvouges. 1997. Estimating Stated Preferences with Rated-Pair Data: Environmental, Health, and Employment Effects of Energy Programs. *Journal of Environmental Economics and Management* 34(1): 79-99.
- Johnson, F.R., W.H. Desvouges, E.E. Fries, and L.L. Wood. 1995. Conjoint Analysis of Individual and Aggregate Environmental Preferences. Triangle Economic Research Technical Working Paper No. T-9502.
- Johnston, R.J. 2006. Is hypothetical bias universal? Validating contingent valuation responses using a binding public referendum. *Journal of Environmental Economics and Management* 52(1): 469-481.
- Jones-Lee, M.W. 1989. *The Economics of Safety and Physical Risk*. Oxford: Basil Blackwell.
- Jones-Lee, M.W., M. Hammerton, and P.R. Philips. 1985. The Value of Safety: Results of a National Sample Survey. *Economic Journal* 95: 49-72.
- Jones-Lee, M.W. and G. Loomes. 1994. Towards a Willingness-to-Pay Based Value of Underground Safety. *Journal of Transport Economics and Policy* 28: 83-98.
- Jones-Lee, M.W. and G. Loomes. 1995. Scale and Context Effects in the Valuation of Transport Safety. *Journal of Risk and Uncertainty* 11:183-203.
- Jones-Lee, M.W. and G. Loomes. 1996. *The Tolerability of Third Party Risk and the Value of Risk Reduction Near Airports*. Report to the Civil Aviation Authority, CASPAR, Newcastle.
- Jones-Lee, M.W., G. Loomes, D. O'Reilly, and P.R. Phillips. 1993. The Value of Preventing Non-Fatal Road Injuries: Findings of a Willingness-to-Pay National Sample Survey. TRL Working Paper WPSRC2.
- Jorgenson, D. 1998a. *Growth, Volume 1: Econometric General Equilibrium Modeling*. Cambridge, MA: MIT Press.
- Jorgenson, D. 1998b. *Growth, Volume 2: Energy, the Environment, and Economic Growth*. Cambridge, MA: MIT Press.
- Jorgenson, D.W. and P.J. Wilcoxen. 1990. Environmental Regulation and U.S. Economic Growth. *RAND Journal of Economics* 21(2): 314-340.
- Joskow, P., R. Schmalensee, and E.M. Bailey. 1998. The Market for Sulfur Dioxide Emissions. *American Economic Review* 88(4): 669-85.
- Jung, C., K. Krutilla, and R. Boyd. 1996. Incentives for Advanced Pollution Abatement Technology at the Industry Level: An Evaluation of Policy Alternatives. *Journal of Environmental Economics and Management* 30: 95-111.
- Just, R.E., D.L. Hueth, and A. Schmitz. 1982. *Applied Welfare Economics and Public Policy*. Englewood Cliffs, NJ: Prentice Hall.
- Just, R.E., D.L. Hueth, and A. Schmitz. 2005. *Welfare Economics of Public Policy: A Practical Approach to Project and Policy Evaluation*. Northampton, MA: Edward Elgar.
- Kahn, J. 1998. *The Economic Approach to Environmental and Natural Resources*. 2nd Ed. Orlando, FL: Dryden Press.
- Kanninen, B.J. 1995. Bias in Discrete Response Contingent Valuation. *Journal of Environmental Economics and Management* 28(1): 114-125.

- Kanninen, B.J. and B. Kriström. 1993. Sensitivity of Willingness-to-Pay Estimates to Bid Design in Dichotomous Choice Contingent Valuation Models: A Comment. *Land Economics* 69(2): 199-202.
- Kaoru, Y. 1995. Measuring Marine Recreation Benefits of Water Quality Improvements by the Nested Random Utility Model. *Resource and Energy Economics* 17(2): 119-136.
- Kaoru, Y., V.K. Smith, and J.L. Liu. 1995. Using Random Utility Models to Estimate the Recreational Value of Estuarine Resources. *American Journal of Agricultural Economics* 77: 141-151.
- Karp, L. 2005. Global Warming and Hyperbolic Discounting. *Journal of Public Economics* 89: 261-282.
- Kealy, M.J., M. Montgomery, and J.F. Dovidio. 1990. Reliability and predictive validity of contingent values: Does the nature of the good matter? *Journal of Environmental Economics and Management* 19(3): 244-263.
- Kelman, S. 1981. Cost-Benefit Analysis: An Ethical Critique. *Regulation* 5(1): 33-40.
- Kerr, S. and R. Newell. 2003. Policy-Induced Technology Adoption: Evidence from the U.S. Lead Phasedown. *Journal of Industrial Economics* 51(2): 317-343.
- Khanna, M. 2001. Non-Mandatory Approaches to Environmental Protection. *Journal of Economic Surveys* 15(3): 291-324.
- Khanna, M. and L. Damon. 1999. EPA's Voluntary 33/50 Program: Impact on Toxic Releases and Economic Performance of Firms. *Journal of Environmental and Economic Management* 38: 1-28.
- Khanna, M., W. Quimio, and D. Bojilova. 1998. Toxics Release Information: A Policy Tool for Environmental Protection. *Journal of Environmental Economics and Management* 36: 243-266.
- Kleckner, N. and J. Neuman. 2000. Update to Recommended Approach to Adjusting WTP Estimates to Reflect Changes in Real Income. Industrial Economics, Inc. Memorandum to Jim DeMocker. U.S. Environmental Protection Agency. September 30.
- Kling, C.L. 1997. The Gains from Combining Travel Cost and Contingent Valuation Data to Value Nonmarket Goods. *Land Economics* 73: 428-439.
- Kniesner, T.J. and J.D. Leeth. 1991. Compensating wage differentials for fatal injury risk in Australia, Japan, and the United States. *Journal of Risk and Uncertainty* 4(1): 75-90.
- Kniesner, T.J., W.K. Viscusi, and J.P. Ziliak. 2006. Life-Cycle Consumption and the Age-Adjusted Value of Life. *Contributions to Economic Analysis & Policy* 5(1): Article 4. Available at: <http://www.bepress.com/bejeap/contributions/vol5/iss1/art4> (accessed January 31, 2011).
- Kochi, I., B. Hubbell, and R. Kramer. 2006. An Empirical Bayes Approach to Combining and Comparing Estimates of the Value of a Statistical Life for Environmental Policy Analysis. *Environmental and Resource Economics* 34(3): 385-406.
- Kokoski, M. and V.K. Smith. 1987. A General Equilibrium Analysis of Partial Equilibrium Welfare Measures: The Case of Climate Change. *American Economic Review* 77(3): 331-341.
- Kolb, J.A. and J.D. Scheraga. 1990. Discounting the Benefits and Costs of Environmental Regulations. *Journal of Policy Analysis and Management* 9: 381-390.

References

- Kolm, S-C. 1976a. Unequal Inequalities I. *Journal of Economic Theory* 12: 416-442.
- Kolm, S-C. 1976b. Unequal Inequalities II. *Journal of Economic Theory* 13: 82-111.
- Kolstad, C. 2000. *Environmental Economics*. Oxford University Press.
- Konar, S. and M. Cohen. 1997. Information as Regulation: The Effect of Community Right-to-Know Laws on Toxic Emissions. *Journal of Environmental Economics and Management* 32: 109-124.
- Konar, S. and M. Cohen. 2001. Does the Market Value Environmental Performance? *Review of Economics and Statistics* 83(2): 281-89.
- Kopp, R.J. and A.J. Krupnick. 1987. Agricultural policy and the benefits of ozone control. *American Journal of Agricultural Economics* 69 (5): 956-62.
- Kopp, R.J., A.J. Krupnick, and M. Toman. 1997. Cost-Benefit Analysis and Regulatory Reform: AN Assessment of the Science and the Art. Report to the Commission on Risk Assessment and Risk Management.
- Kreps, D.M. 1990. *A Course in Microeconomic Theory*. Princeton, NJ: Princeton University Press.
- Krupnick, A., A. Alberini, M. Cropper, N. Simon, B. O'Brien, R. Goeree, and M. Heintzelman. 2002. Age, Health, and the Willingness to Pay for Mortality Risk Reductions: A Contingent Valuation Survey of Ontario Residents. *The Journal of Risk and Uncertainty* 24(2): 161-186.
- Laibson, D. 1998. Life-Cycle Consumption and Hyperbolic Discount Functions. *European Economic Review* 42(3-5): 861-871.
- Lanphear, B.D., M. Weitzman, and S. Eberly. 1996. Racial Differences in Urban Children's Environmental Exposures to Lead. *American Journal of Public Health* 86(1): 1460-1463.
- Larson, D. 1993. On Measuring Existence Values. *Land Economics* 69(4): 377-388.
- Lavin, M.R. 1992. *Business Information: How to Find It, How to Use It*. 2nd Ed. Oryx Press, Phoenix.
- Layton, D.F. and G. Brown. 2000. Heterogeneous preferences regarding global climate change. *The Review of Economics and Statistics* 82(4): 616-624.
- Leeth, J.D. and J. Ruser. 2003. Compensating Wage Differentials for Fatal and Nonfatal Injury Risk by Gender and Race. *The Journal of Risk and Uncertainty* 27(3): 257-277.
- Leggett, C.G. and N.R. Bockstael. 2000. Evidence of the Effects of Water Quality on Residential Land Prices. *Journal of Environmental Economics and Management* 39: 121-144.
- Leigh, J.P. 1987. Gender, Firm Size, Industry and Estimates of the Value-of-Life. *Journal of Health Economics* 6: 255-273.
- Leigh, J.P. and R.N. Folsom. 1984. Estimates of the value of accident avoidance at the job depend on concavity of the equalizing differences curve. *The Quarterly Review of Economics and Business* 24(1): 55-56.
- Lesser, J.A. and R.O. Zerbe. 1994. Discounting Procedures for Environmental (And Other) Projects: A Comment on Kolb and Scheraga. *Journal of Policy Analysis and Management* 13(1): 140- 156.
- Lichtenstein, S. and P. Slovic, eds. 2006. *The construction of preference*. New York: Cambridge University Press.
- Lind, R.C., ed. 1982a. *Discounting for Time and Risk in Energy Policy*. Washington, DC: Resources for the Future.

- Lind, R.C. 1982b. A Primer on the Major Issues Relating to the Discount Rate for Evaluating National Energy Options. In *Discounting for Time and Risk in Energy Policy*, ed. R.C. Lind. Washington, DC: Resources for the Future.
- Lind, R.C. 1990. Reassessing the Government's Discount Rate Policy in Light of New Theory and Data in a World Economy with a High Degree of Capital Mobility. *Journal of Environmental Economics and Management* 18(2): 8-28.
- Lind, R.C. 1994. Intergenerational Equity, Discounting, and the Role of Cost-benefit Analysis in Evaluating Global Climate Policy. In *Integrative Assessment of Mitigation, Impacts, and Adaptation to Climate*, ed. N. Nakicenovic, W.D. Nordhaus, R. Richels, and F.L. Toth. Laxenburg, Austria: International Institute of Applied Systems Analysis.
- Lindberg, K., R.L. Johnson, and R.P. Berrens. 1997. Contingent Valuation of Rural Tourism Development with Tests of Scope and Mode Stability. *Journal of Agricultural and Resource Economics* 22(1): 44-60.
- List, J.A. 2001. Do Explicit Warnings Eliminate the Hypothetical Bias in Elicitation Procedures? Evidence from Field Auctions for Sportscards. *American Economic Review* 91(5): 1498-1507.
- List, J.A. and C.A. Gallet. 2001. What Experimental Protocol Influence Disparities between Actual and Hypothetical Stated Values? *Environmental and Resource Economics* 20: 241-254.
- List, J.A. and J. Shogren. 1998. Calibration of difference between actual and hypothetical valuations in a field experiment. *Journal of Economic Behavior and Organization* 37: 193-205.
- List, J.A., P. Sinha, and M.H. Taylor. 2006. Using Choice Experiments to Value Non-Market Goods and Services: Evidence from Field Experiments. *Advances in Economic Analysis & Policy* 6(2): Article 2.
- Loomis, J.B. 1989. Test-Retest Reliability of the Contingent Valuation Method: A Comparison of General Population and Visitor Response. *American Journal of Agricultural Economics* 71(1): 76.
- Loomis, J., P. Kent, L. Strange, K. Fausch, and A. Covich. 2000. Measuring the Total Economic Value of Restoring Ecosystem Services in an Impaired River Basin: Results from a Contingent Valuation Survey. *Ecological Economics* 33: 103-117.
- Loomis, J. and M. King. 1994. Comparison of Mail and Telephone-Mail Contingent Valuation Surveys. *Journal of Environmental Management* 41: 309-324.
- Lupi, Jr., F., T. Graham-Thomasi, and S.J. Taff. 1991. A Hedonic Approach to Urban Wetland Valuation. University of Minnesota, Department of Agricultural and Applied Economics. Staff Paper pp. 91-8.
- Lyon, R.M. 1990. Federal Discount Rate Policy, the Shadow Price of Capital, and Challenges for Reforms. *Journal of Environmental Economics and Management* 18(2): 29-50.
- Lyon, R.M. 1994. Intergenerational Equity and Discount Rates for Climate Change Analysis. Paper presented at IPCC Working Group III Workshop on Equity and Social Considerations Related to Climate Change, 18-22 July, Nairobi, Kenya.
- Magat, A.M., W.K. Viscusi, and J. Huber. 1996. A Reference Lottery Metric for Valuing Health. *Management Science* 42(8): 1118-1130.

References

- Maguire, K. and G. Sheriff. 2011. Comparing Distributions of Environmental Outcomes for Regulatory Environmental Justice Analysis. *International Journal of Environmental Research and Public Health* 8: 1707-1726.
- Maguire, K.B. 2009. Does Mode Matter? A Comparison of Telephone, Mail and In-Person Treatments in Contingent Valuation Experiments. *Journal of Environmental Management* (in press).
- Mahan, B.L., S. Polasky, and R.M. Adams. 2000. Valuing Urban Wetlands: a Property Price Approach. *Journal of Land Economics* 76: 100-113.
- Mankiw, N.G. 2004. *Principles of Economics*. 3rd Ed. Mason, OH: South-Western.
- Manne, A.S. 1994. The Rate of Time Preference: Implications for the Greenhouse Debate. In *Integrative Assessment of Mitigation, Impacts, and Adaptation to Climate Change*, ed. N. Nakicenovic, W.D. Nordhaus, R. Richels, and F.L. Toth. Laxenburg, Austria: International Institute for Applied Systems Analysis (IIASA).
- Mannesto, G. and J.B. Loomis. 1991. Evaluation of Mail and In-person Contingent Valuation Surveys: Results of a Study of Recreational Boaters. *Journal of Environmental Management* 32: 177-190.
- Marin, A. and G. Psacharopoulos. 1982. The reward for risk in the labor market: evidence from the United Kingdom and reconciliation with other studies. *Journal of Political Economy* 90(4): 827-853.
- Mas-Colell, A., M.D. Whinston, and J.R. Green. 1995. *Microeconomic Theory*. New York: Oxford University Press.
- Massey, D.M., S. Newbold, and B. Genter. 2006. Valuing Water Quality Changes Using a Bioeconomic Model of a Coastal Recreational Fishery. *Journal of Environmental Economics and Management* 52: 482-500.
- McClelland, G.H., W.D. Schulze, D. Waldman, J. Irwin, D. Schenk, T. Stewart, L. Deck, and M. Thayer. 1991. Valuing Eastern Visibility: A Field Test of the Contingent Valuation Method. U.S. EPA Cooperative Agreement #CR-815183-01-3. Draft report prepared for the U.S. Environmental Protection Agency, Washington, DC
- McCluskey, J.J. and G. Rausser. 2003. Hazardous waste sites and housing appreciation rates. *Journal of Environmental Economics and Management* 45: 166-176.
- McConnell, K.E. 1990. Double Counting in Hedonic and Travel Cost Models. *Land Economics* 66(2): 121-27.
- McConnell, K.E. 1992. On-site Time in the Demand for Recreation. *American Journal of Agricultural Economics* 74: 918-25.
- McConnell, K.E. and I. Strand. 1981. Measuring the Cost of Time in Recreation Demand Analysis: An Application to Sportfishing. *American Journal of Agricultural Economics* 63: 153-156.
- McConnell, K.E., I.E. Strand, and S. Valdes. 1998. Testing Temporal Reliability and Carry-over Effect: The Role of Correlated Responses in Test-retest Reliability Studies. *Environmental & Resource Economics* 12(3): 357.
- McDaniels, T.L., M.S. Kamlet, and G.W. Fischer. 1992. Risk Perception and the Value of Safety. *Risk Analysis* 12: 495-503.
- McDonald, A. and L. Schrattenholzer. 2001. Learning Rates for Energy Technologies. *Energy Policy* 29: 255-261.
- McFadden, D. 1994. Contingent Valuation and Social Choice. *American Journal of Agricultural Economics* 76(4): 689-708.

- Mendeloff, J. and R.M. Kaplan. 1990. Are Twenty-fold Differences in 'Lifesaving' Costs Justified? A Psychometric Study of the Relative Value Placed on Preventing Deaths from Programs Addressing Different Hazards. In *New Risks*, ed. A. Cox Jr., and D.F. Ricci. New York, NY: Plenum Press.
- Mendelsohn, R., J. Hoff, G. Peterson, and R. Johnson. 1992. Measuring Recreation Values with Multiple Destination Trips. *American Journal of Agricultural Economics* 74: 926-933.
- Messer, K.D., W.D. Schulze, K.F. Hackett, T.A. Cameron, and G.H. McClelland. 2006. Can Stigma Explain Large Property Value Losses? The Psychology and Economics of Superfund. *Environmental and Resource Economics* 33: 299-324.
- Michaels, R.G. and V.K. Smith. 1990. Market Segmentation and Valuing Amenities with Hedonic Models: The Case of Hazardous Waste Sites. *Journal of Urban Economics* 28: 223-242.
- Mielke, H.W., C.R. Gonzales, M.K. Smith, and P.W. Mielke. 1999. The Urban Environmental and Children's Health: Soils as an Indicator of Lead, Zinc, and Cadmium in New Orleans, Louisiana, U.S.A. *Environment Research Section A* 81: 117-129.
- Miller, R. and P. Blair. 1985. *Input Output Analysis: Foundations and Extensions*. Englewood Cliffs, N.J: Prentice-Hall.
- Miller, T. and J. Guria. 1991. The value of statistical life in New Zealand. Report to the New Zealand Ministry of Transport, Land Transportation Division, #0-477-05255-X.
- Millennium Ecosystem Assessment. 2005. *Ecosystems and human well-being: synthesis*. Island Press, Washington DC. Available at: <http://www.maweb.org/en/Index.aspx> (accessed March 21, 2011).
- Milon, J.W. and D. Scroggin. 2006. Latent Preferences and Valuation of Wetland Ecosystem Restoration. *Ecological Economics* 56: 162-175.
- Mitchell, R.C. and R.T. Carson. 1989. *Using Surveys to Value Public Goods: The Contingent Valuation Method*. Washington, DC: Resources for the Future.
- Mohai, P. and B. Bryant. 1992. *Race and the Incidence of Environmental Hazards*. Boulder: Westview Press.
- Mohai, P., P. Lantz, J. Morenoff, J. House, and R. Mero. 2009. Racial and Socioeconomic Disparities in Residential Proximity to Polluting Industrial Facilities: Evidence from the American's Changing Lives Study. *American Journal of Public Health* 99 (S3): S649-S656.
- Mohai, P. and R. Saha. 2007. Racial Inequality in the Distribution of Hazardous Waste: A National Level Reassessment. *Social Problems* 54 (3): 343-370.
- Moher, D., D.J. Cook, S. Eastwood, I. Olkin, D. Rennie, and D.F. Stroup. 1999. Improving the quality of reports of meta-analyses of randomised controlled trials: The QUOROM statement. *The Lance* 354: 1896-1900.
- Montero, J. 2002. Permits, Standards, and Technology Innovation. *Journal of Environmental Economics and Management* 44: 23-44.
- Montgomery, M., and M. Needleman. 1997. The Welfare Effects of Toxic Contamination in Freshwater Fish. *Land Economics* 73(2): 211-223.
- Moore, M.A., A.E. Boardman, A.R. Vining, D.L. Weimer, and D.H. Greenberg. 2004. Just Give Me a Number! Practical Values for the Social Discount Rate. *Journal of Policy Analysis and Management* 23(4): 789-812.

References

- Moore, M.J. and K.W. Viscusi. 1988. Doubling the estimated value of life: results using new occupational fatality data. *Journal of Policy Analysis and Management* 7(3):476-490.
- Moore, M.J. and W.K. Viscusi. 1988. The Quantity-Adjusted Value of Life. *Economic Inquiry* 26(3): 369-388.
- Morello-Frosch, R.; M. Pastor, Jr.; and J. Sadd. 2001. Environmental Justice and Southern California's 'Riskscape': The Distribution of Air Toxics Exposures and Health Risks among Diverse Communities. *Urban Affairs Review* 36(4): 551-578.
- Morey, E., T. Buchanan, and D. Waldman. 2002. Estimating the Benefits and Costs to Mountainbikers of Changes in Access Fees, Trail Characteristics and Site Closures: Choice Experiments and Benefits Transfer. *Journal of Environmental Economics and Management* 64: 411-422.
- Morgan, O.A., D.M. Massey, and W.L. Huth. 2009. Diving Demand for Large Ship Artificial Reefs. *Marine Resource Economics* 24: 43-59.
- Morgenstern, R.D. and W.A. Pizer. 2007. *Reality Check: The Nature and Performance of Voluntary Environmental Programs in the United States, Europe, and Japan*. RFF Press, Washington, DC.
- Morgenstern, R.D., W.A. Pizer, and J. Shih. 2002. Jobs Versus the Environment: An Industry-Level Perspective. *Journal of Environmental Economics and Management* 43: 412-436.
- Mrozek, J. and L. Taylor. 2002. What Determines the Value of Life? A Meta Analysis. *Journal of Policy Analysis and Management* 21(2): 253-70.
- Murphy, J.J. and P.G. Allen. 2005. A Meta-analysis of Hypothetical Bias in Stated Preference Valuation. *Environmental and Resource Economics* 30: 313-325.
- Murray, B.C., A. Keeler, and W.N. Thurman. 2005. Tax Interaction Effects, Environmental Regulation, and "Rule of Thumb" Adjustments to Social Cost. *Environmental and Resource Economics* 30(1): 73-92.
- Murray, C.L. 1994. Quantifying the Burden of Disease: The Technical Basis for Disability-Adjusted Life Years. *Bulletin of the World Health Organization* 72: 429-445.
- National Academy of Science. 2005. *Valuing Ecosystem Services: Toward Better Environmental Decision-Making*. Available at: <http://dels.nas.edu/Report/Valuing-Ecosystem-Services-Toward-Better-Environmental/11139> (accessed March 21, 2011).
- National Research Council (NRC). 2002. *New Tools for Environmental Protection: Education, Information, and Voluntary Measures*, ed. T. Dietz and P. Stern. Washington, DC: National Academies Press.
- NRC. 2005. *Valuing Ecosystem Services: Toward Better Environmental Decision-Making*. National Academies Press.
- Navrud, S. and R. Ready, eds. 2007. *Environmental Value Transfer: Issues and Methods*. Dordrecht, the Netherlands: Springer.
- Neumann, J. and H. Greenwood. 2002. Existing Literature and Recommended Strategies for Valuation of Children's Health Effects. NCEE Working Paper Series, Working Paper #02-07.
- Newbold, S. and D. Massey. 2010. Recreation demand estimation and valuation in spatially connected systems. *Resource and Energy Economics* 32(2): 222-240.
- Newbold, S. and R. Iovanna. 2007. Effects of Density-independent Mortality on Populations and Ecosystems: Application to Cooling Water. *Ecological Applications* 17(2): 390-406.

- Newell, R. and R. Stavins. 2003. Cost Heterogeneity and the Potential Savings from Market-Based Policies. *Journal of Regulatory Economics* 23(1): 43-59.
- Newell, R.G. and W.A. Pizer. 2003. Discounting the Distant Future: How Much Do Uncertain Rates Increase Valuations? *Journal of Environmental Economics and Management* 46(1): 52-71.
- Newell, R.G., A.B. Jaffe, and R. Stavins. 1999. The Induced Innovation Hypothesis and Energy-saving Technological Change. *The Quarterly Journal of Economics* 114(3): 941-975.
- Nicholson, W. 1995. *Microeconomic Theory: Basic Principles and Extension*. New York: Dryden Press.
- Nordhaus, W.D. 1993. Reflections on the Economics of Climate Change. *Journal of Economic Perspectives* 7(4): 11-25.
- Norland, D.L. and K.Y. Ninassi. 1998. *Price It Right: Energy Pricing and Fundamental Tax Reform*. Report to the Alliance to Save Energy, Washington, DC.
- Nordhaus, W.D. 2008. *A Question of Balance: Weighing the Options on Global Warming Policies*. New Haven, CT: Yale University Press.
- O'Connor, D. 1994. The Use of Economic Instruments in Environmental Management: The East Asian Experience, in Applying Economic Instruments to Environmental Policies in OECD and Dynamic Non-Member Countries. Paris: OECD Development Centre.
- O'Connor, D. 1996. Applying Economic Instruments in Developing Countries: From Theory to Implementation, Special Paper. Paris: OECD Development Centre.
- O'Neil, W. 1983. The Regulation of Water Pollution Permit Trading under Conditions of Varying Streamflow and Temperature. In *Buying a Better Environment: Cost-Effective Regulation Through Permit Trading*, ed. Joeres, E. and M. David, 219-231. Madison: University of Wisconsin Press.
- Oates, W.E. and D.L. Strassman. 1984. Effluent Fees and Market Structure. *Journal of Public Economics* 24: 29-46.
- Odum, H.T. 1996. *Environmental Accounting: Energy and Environmental Decision Making*. New York, NY: John Wiley & Sons.
- Office of Management and Budget (OMB). 1992. Guidelines and Discount Rates for Benefit-Cost Analysis of Federal Programs. OMB Circular A-94, October 29, 1992. Available at: <http://www.whitehouse.gov/OMB/circulars/a094/a094.html> (accessed March 7, 2007).
- OMB. 1996. Economic Analysis of Federal Regulations under Executive Order No. 12866. (or Best Practices document). January 11, 1996.
- OMB. 1997. Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity. Federal Register Notice, October 30, 1997. Available at: <http://www.whitehouse.gov/omb/fedreg/ombdir15.html> (accessed August 14, 2008).
- OMB. 1999. The Paperwork Reduction Act of 1995: Implementing Guidance for OMB Review of Agency Information Collect. June.
- OMB. 2000. Guidance on Aggregation and Allocation of Data on Race for Use in Civil Rights Monitoring and Enforcement. Available at: http://www.whitehouse.gov/omb/bulletins_b00-02 (accessed on January 8, 2013).
- OMB. 2000. Guidelines to Standardize Measures of Costs and Benefits and the Format of Accounting Statements. M-00-08.

References

- OMB. 2003. Circular A-4, Regulatory Analysis, September 17, 2003. Available at: http://www.whitehouse.gov/omb/circulars_a004_a-4/ (accessed February 22, 2011).
- OMB. 2006. Guidance on Agency Surveys and Statistical Information Collections: Questions and Answers When Designing Surveys for Information Collections. Available at: http://www.whitehouse.gov/omb/inforeg/pmc_survey_guidance_2006.pdf (accessed January 31, 2011).
- OMB. 2009. Update of Statistical Area Definitions and Guidance on Their Uses. OMB Bulletin No. 10-02, December 1, 2009. Available at: <http://www.whitehouse.gov/sites/default/files/omb/assets/bulletins/b10-02.pdf> (accessed on May 28, 2013).
- OMB. 2010a. Draft 2010 Report to Congress on the Benefits and Costs of Federal Regulations and Unfunded Mandates on State, Local, and Tribal Entities. Available at: http://www.whitehouse.gov/sites/default/files/omb/assets/inforeg/draft_2010_bc_report.pdf (accessed September 20, 2010).
- OMB. 2010b. Disclosure and Simplification as Regulatory Tools. Available at: http://www.whitehouse.gov/sites/default/files/omb/assets/inforeg/disclosure_principles.pdf. (accessed November 2, 2010).
- Olson, C.A. 1981. An Analysis of Wage Differentials Received by Workers on Dangerous Jobs. *Journal of Human Resources* 16(2): 167-185.
- Opaluch, J.J., S.K. Swallow, T. Weaver, C.W. Wessells, and D. Wichelns. 1993. Evaluating Impacts from Noxious Facilities: Including Public Preferences in Current Siting Mechanisms. *Journal of Environmental Economics and Management* 24: 41-59.
- Organization for Economic Cooperation and Development (OECD). 1994a. *Evaluating Economic Incentives for Environmental Policy*. Paris, France.
- OECD. 1994b. Managing the Environment — The Role of Economic Instruments. Paris, France.
- OECD. 1999. Voluntary Approaches for Environmental Policy: An Assessment. Paris, France.
- OECD. 2003. Voluntary Approaches for Environmental Policy: Effectiveness, Efficiency and Usage in Policy Mixes. Paris, France.
- Otway, H.J. 1977. Review of Research on Identification of Factors Influencing Social Response to Technological Risks, International Atomic Energy Agency, IAEA Paper CN-36/4, Vienna, (in Vol. 7 of Nuclear Power and its Fuel Cycle, IAEA Proceedings, pp. 95-118).
- Palmer, K., H. Sigman, and M. Walls. 1997. The Cost of Reducing Municipal Solid Waste. *Journal of Environmental Economics and Management* 33(2): 128-50.
- Palmer, K., W.E. Oates, and P.R. Portney. 1995. Tightening Environmental Standards: The Benefit-Cost or the No-Cost Paradigm? *Journal of Economic Perspectives* 9(4): 119-132.
- Palmquist, R.B. 1988. Welfare Measurement for Environmental Improvements Using the Hedonic Model: The Case of Nonparametric Marginal Prices. *Journal of Environmental Economics and Management* 15: 297-312.
- Palmquist, R.B. 1991. Hedonic Methods. In *Measuring the Demand for Environmental Quality*, ed. J. Braden and C. Kolstad. Amsterdam, The Netherlands: Elsevier Science Publishers.

- Palmquist, R.B. and L.E. Danielson. 1989. A Hedonic Study of the Effects of Erosion Control and Drainage on Farmland Values. *American Journal of Agricultural Economics* 71(1): 55-62.
- Pareto, V. 1906. *Manual of Political Economy*. 1971 translation of 1927 edition, New York: Augustus M. Kelley.
- Pargal, S. and D. Wheeler. 1996. Informal Regulation of Industrial Pollution in Developing Countries: Evidence in Indonesia. *Journal of Political Economy* 104(6): 1314-1327.
- Parry, I.W.H. 1995. Pollution Taxes and Revenue Recycling. *Journal of Environmental Economics and Management* 29(3): S64-77.
- Parry, I.W.H. 2003. Fiscal Interactions and the Case for Carbon Taxes over Grandfathered Carbon Permits. *Oxford Review of Economic Policy* 19(3): 385-399.
- Parry, I.W.H. and A.M. Bento. 2000. Tax Deductions, Environmental Policy, and the "Double Dividend" Hypothesis. *Journal of Environmental Economics and Management* 39(1): 67-96.
- Parry, I.W.H., L.H. Goulder, and D. Burtraw. 1997. Revenue-Raising vs. Other Approaches to Environmental Protection: The Critical Significance of Pre-Existing Tax Distortions. *RAND Journal of Economic* 28: 708-731.
- Parry, I.W.H. and W.E. Oates. 2000. Policy Analysis in the Presence of Distorting Taxes. *Journal of Policy Analysis and Management* 19: 603-613.
- Parry, I.W.H. and R.C. Williams. 1999. A Second-Best Evaluation of Eight Policy Instruments to Reduce Carbon Emissions. *Resource and Energy Economics* 21: 347-373.
- Parsons, G.R. 2003a. A Bibliography of Revealed Preference Random Utility Models in Recreation Demand. Available online at <http://www.ocean.udel.edu/cms/gparsons/rumbib.pdf> (accessed March 11, 2011).
- Parsons, G.R. 2003b. The Travel Cost Model. In *A Primer on Non-Market Valuation*, ed. K. Boyle and G. Peterson. London: Kluwer Academic Publishers.
- Parsons, G.R. and A.B. Hauber. 1998. Spatial Boundaries and Choice Set Definition in a Random Utility Model of Recreation Demand. *Land Economics* 74: 32-48.
- Parsons, G.R. and D.M. Massey. 2003. A Random Utility Model of Beach Recreation. In *The New Economics of Outdoor Recreation*, ed. N. Hanley, D. Shaw, and R.E. Wright. Northampton, MA: Edward Elgar.
- Parsons, G.R. and M.S. Needelman. 1992. Site Aggregation in a Random Utility Model of Recreation. *Land Economics* 68: 418-433.
- Parsons, G.R., D.M. Massey, and T. Tomasi. 2000. Familiar and Favorite Sites in a Random Utility Model of Beach Recreation. *Marine Resource Economics* 14: 299-315.
- Parsons, G.R., P.M. Jakus, and T. Tomasi. 1999. A Comparison of Welfare Estimates from Four Models for Linking Seasonal Recreational Trips to Multinomial Logit Models of Site Choice. *Journal of Environmental Economics and Management* 38: 143-157.
- Parsons, G.R., A.J. Plantinga, and K.J. Boyle. 2000. Narrow Choice Sets in a Random Utility Model of Recreation Demand. *Land Economics* 76: 86-99.
- Pastor, Jr., M.; R. Morello-Frosch; and J.L. Sadd. 2006. Breathless: Schools, Air Toxics, and Environmental Justice in California. *Policy Studies Journal* 34(3): 337-362.

References

- Pattanayak, S.K. and R.A. Kramer. 2001. Worth of Watersheds: A Producer Surplus Approach for Valuing Drought Mitigation in Eastern Indonesia. *Environment and Development Economics* 6: 23-146.
- Pearce, D.W., ed. 1992. *The MIT Dictionary of Modern Economics*, 4th Ed. Cambridge, MA: MIT Press.
- Pearce, D.W. and R.K. Turner. 1990. Discounting the Future. In *Economics of Natural Resources and the Environment*. Baltimore, MD: The Johns Hopkins University Press.
- Pearce, D.W. and D. Ulph. 1994. A Social Discount Rate for the United Kingdom. Mimeo No. 95-01, Centre for Social and Economic Research on the Global Environment, University College London and University of East Anglia, UK.
- Pearce, D., B. Groom, C. Hepburn, and P. Koundouri. 2003. Valuing the Future. *World Economics* 4(2): 121-141.
- Perman, R., M. Common, J. McGilvray, J., and Y. Ma. 2003. *Natural Resource and Environmental Economics*. 3rd Ed. Essex: Pearson Education Limited.
- Peters, T., W.L. Adamowicz, and P.C. Boxall. 1995. Influence of Choice Set Considerations in Modeling the Benefits from Improved Water Quality. *Water Resources Research* 31(7): 1781-1787.
- Phaneuf, D.J., C.L. Kling, and J.A. Herriges. 2000. Estimation and Welfare Calculations in a Generalized Corner Solution Model with an Application to Recreation Demand. *Review of Economics and Statistics* 82: 83-92.
- Phaneuf, D.J. and C. Siderelis. 2003. An Application of the Kuhn-Tucker Model to the Demand for Water Trail Trips in North Carolina. *Marine Resource Economics* 18:1-14.
- Phaneuf, D.J. and V.K. Smith. 2005. Recreation Demand Models. In *Handbook of Environmental Economics*, Volume 2, ed. K. Mäler and J. Vincent. North-Holland.
- Phaneuf D.J., V.K. Smith, R.B. Palmquist, and J.C. Pope. 2008. Integrating Property Value and Local Recreation Models to Value Ecosystem Services in Urban Watersheds. *Land Economics* 84(3): 361-381.
- Pigou, A. 1932. *The Economics of Welfare*. 4th Ed. London: MacMillan and Company.
- Pizer, W.A. and R. Kopp. 2005. Calculating the Costs of Environmental Regulation. In *Handbook of Environmental Economics*, ed. K.G. Mäler and J.R. Vincent, Volume 3. Amsterdam: North-Holland.
- Poe, G., K. Boyle, and J. Bergstrom. 2001. A Preliminary Meta-Analysis of Contingent Values for Ground Water Quality Revisited. In *The Economic Value of Water Quality*, ed. J. Bergstrom, K. Boyle, and G. Poe. Northampton, MA: Elgar.
- Polasky, S. 2008a. What's Nature Done for You Lately: Measuring the Value of Ecosystem Services. *Choices* 23(2): 42-46.
- Polasky, S., E. Nelson, J. Camm, B. Csuti, P. Fackler, E. Lonsdorf, C. Montgomery, D. White, J. Arthur, B. Garber-Yonts, R. Haight, J. Kagan, A. Starfield, and C. Tobalske. 2008b. Where to Put Things? Spatial Land Management to Sustain Biodiversity and Economic Returns. *Biological Conservation* 141(6): 1505-1524.
- Popp, D. 2003. Pollution Control Innovations and the Clean Air Act of 1990. *Journal of Policy Analysis and Management* 22(4): 641-660.
- Porter, M.E. and C. van der Linde. 1995. Toward a New Conception of the Environment-Competitiveness Relationship. *Journal of Economic Perspectives* 9(4): 97-118.

- Portney, P. and R. Stavins, eds. 2000. *Public Policies for Environmental Protection*. Washington, DC: Resources for the Future.
- Portney, P.R. and J.P. Weyant. 1999. *Discounting and Intergenerational Equity*. Washington, DC: Resources for the Future.
- Post, E.S., A. Belova, and J. Huang. 2011. Distributional Benefits Analysis of a National Air Quality Rule. *International Journal of Environmental Research and Public Health* 8: 1872-1892.
- Presidential Memo. 1994. *Memorandum for the Heads of All Departments and Agencies: Executive Order on Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations*. Available at: http://www.epa.gov/compliance/ej/resources/policy/clinton_memo_12898.pdf (accessed on December 1, 2011).
- Price, J., N. Tanners, J. Neumann, and R. Oomen. 2010. Memorandum to Ellen Kurlansky (EPA): Employment Impacts Associated with the Manufacture, Installation, and Operation of Scrubbers. January 15, 2010.
- Quiggin, J. 1992. Risk, Self-Protection and Ex Ante Economic Value — Some Positive Results. *Journal of Environmental Economics and Management* 23(1): 40-53.
- Ramsey, F.P. 1928. A mathematical theory of saving. *Economics Journal* 38: 543-559.
- Rausser, G.C. and A.A. Small. 2000. Valuing research leads: Bioprospecting and the conservation of genetic resources. *Journal of Political Economy* 108: 173-206.
- Ready, R.C., J.C. Buzby, and D. Hu. 1996. Differences between Continuous and Discrete Contingent Value Estimates. *Land Economics* 72(3): 397-411.
- Ricketts, T.H., G.C. Daily, P.R. Ehrlich, and C.D. Michener. 2004. Economic Value of Tropical Forest to Coffee Production. *Proceedings of the National Academy of Sciences of the United States of America* 101(34): 12579-12582.
- Ringquist, E. 2005. Assessing Evidence of Environmental Inequities: A Meta-Analysis. *Journal of Policy Analysis and Management* 24 (2): 223-247.
- Risk Management Association. Annual Statement Studies. Philadelphia, PA (annual report).
- Roberts, M. and A. Spence. 1976. Effluent Charges and Licenses under Uncertainty. *Journal of Public Economics* 5(3-4): 193-208.
- Roe, B., Boyle, K.J., and M.F. Teisl. 1996. Using Conjoint Analysis to Derive Estimates of Compensating Variation. *Journal of Environmental Economics and Management* 31(2): 145-159.
- Rollins, K. and A. Lyke. 1998. The Case for Diminishing Marginal Existence Values. *Journal of Environmental Economics and Management* 36(3): 324-334.
- Rosen, S. 1988. The Value of Changes in Life Expectancy. *Journal of Risk and Uncertainty* 1(3): 285-304.
- Rosenbaum, A., S. Hartley, and C. Holder. 2011. Analysis of Diesel Particulate Matter Health Risk Disparities in Selected US Harbor Areas. *American Journal of Public Health* 101: S217-S224.
- Rosenberger, R. and J. Loomis. 2000. Using Meta-Analysis for Benefit Transfer: In-Sample Convergent Validity Tests of an Outdoor Recreation Database. *Water Resources Research* 33(4): 1097-1107.

References

- Rosenberger, R.S. and T.D. Stanley. 2007. Publication Effects in the Recreation Use Value Literature: a Preliminary Investigation. Paper prepared for presentation at the American Agricultural Economics Association Annual Meeting, Portland, OR, 2007.
- Rowe, R.D. and L.G. Chestnut. 1983. Valuing Environmental Commodities: Revisited. *Land Economics* 59: 404-410.
- Rowe, R.D., W.D. Schulze, and W.S. Breffle. 1996. A Test for Payment Card Biases. *Journal of Environmental Economics and Management* 31(2): 178-185.
- Rowe, R.D., C.M. Lang, L.G. Chestnut, D.A. Latimer, D.A. Rae, S.M. Bernow, and D.E. White. 1995. The New York State Electricity Externality Study, prepared for the Empire State Electric Energy Research Corporation, December 1995.
- Rowe, W.D. 1977. *An Anatomy of Risk*. New York, NY: Wiley.
- Sacks J.D., L.W. Stanek, T.J. Luben, D.O. Johns, B.J. Buckley, J.S. Brown, and M. Ross. 2011. Particulate Matter-induced Health Effects: Who is Susceptible? *Environmental Health Perspectives* 119: 446-54.
- Sagar, A. and B. Van der Zwaan. 2006. Technological Innovation in the Energy Sector: R&D, Deployment, and Learning-By-Doing. *Energy Policy* 34: 2601-2608.
- Samuelson, P.A. 1951. Abstract of a Theorem Concerning Substitutability in Open Leontief Models. In *Activity Analysis of Production and Allocation*, ed. T. Koopmans. New York, NY: John Wiley & Sons, Inc.
- Samuelson, P.A. 1976. Economics of Forestry in an Evolving Society. *Economic Inquiry* 14: 466-492.
- Savage, I. 1993. An Empirical Investigation into the Effects of Psychological Perceptions on the Willingness-to-Pay to Reduce Risk. *Journal of Risk and Uncertainty* 6: 75-90.
- Schelling, T.C. 1995. Intergenerational Discounting. *Energy Policy* 23(4/5): 395-401.
- Scheraga, J.D. 1990. Perspectives on Government Discounting Policies. *Journal of Environmental Economics and Management* 18(2): 65-71.
- Schlapfer, F. 2006. Survey Protocol and Income Effects in the Contingent Valuation of Public Goods: A Meta-analysis. *Ecological Economics* 57(3): 415-429.
- Schlapfer, F., A. Roschewitz, and N. Hanley. 2004. Validation of Stated Preferences for Public Goods: A Comparison of Contingent Valuation Survey Responses and Voting Behavior. *Ecological Economics* 51: 1-16.
- Schmalensee, R., P. Joskow, A. Ellerman, J. Montero, and E. Bailey. 1998. An Interim Evaluation of Sulfur Dioxide Emissions Trading. *Journal of Economic Perspectives* 12: 53-68.
- Schwartz J., D. Bellinger, and T. Glass. 2011a. Expanding the Scope of Risk Assessment: Methods of Studying Differential Vulnerability and Susceptibility. *American Journal of Public Health* 101: S102-S109.
- Schwartz J., D. Bellinger, and T. Glass. 2011b. Exploring Potential Sources of Differential Vulnerability and Susceptibility in Risk from Environmental Hazards to Expand the Scope of Risk Assessment. *American Journal of Public Health* 101: S94-101.
- Scott, A.D. 1953. Notes on User Cost. *The Economic Journal* 63(250): 368-384.
- Scott, A.D. 1955. *Natural Resources, The Economics of Conservation* (2nd Edition 1983). Ottawa: Carleton University Press, Toronto, Don Mills: Oxford University Press.

- Scotton C.R. and L.O. Taylor. 2009. Valuing Risk Reductions: Incorporating Risk Heterogeneity into a Revealed Preference Framework. Working paper. Available at: http://www.ncsu.edu/cenrep/research/documents/riskhet_REE_2009.pdf (accessed January 31, 2011).
- Segerson, K. 1995. Liability and Penalty Structures in Policy Design. In *The Handbook of Environmental Economics*, ed. D.W. Bromley, 272-294. Cambridge, MA: Blackwell Publishers.
- Segerson, K. and T. Miceli. 1998. Voluntary Environmental Agreements: Good or Bad News for Environmental Protection? *Journal of Environmental Economics and Management* 36: 109-130.
- Segerson, K. and J. Wu. 2006. Nonpoint Pollution Control: Inducing First-Best Outcomes Through the Use of Threats. *Journal of Environmental Economics and Management* 51: 165-184.
- Sen, A.K. 1970. *Collective Choice and Social Welfare*. San Francisco, CA: Holden-Day.
- Sen, A.K. 1982. Approaches to the Choice of Discount Rates for Social Benefit-cost Analysis. In *Discounting for time and risk in energy policy*, ed. R.C. Lind. Washington, DC: Resources for the Future.
- Serret, Yse and Nick Johnstone, eds. 2006. *The Distributional Effects of Environmental Policy*. OECD: Edward Elgar Publishing.
- Sexton, K. 1997. Sociodemographic Aspects of Human Susceptibility to Toxic Chemicals: Do Class and Race Matter for Realistic Risk Assessment? *Environmental Toxicology and Pharmacology*: 261-269.
- Shadbegian, R.J., W.B. Gray, and C. Morgan. 2007. Benefits and Costs from Sulfur Dioxide Trading: A Distributional Analysis. In Visgilio, G. and D. Whitelaw, eds. *Acid in the Environment: Lessons Learned and Future Prospects*. Springer Science+Media, Inc.
- Shadbegian, R., and A. Wolverton. 2010. Location Decisions of U.S. Polluting Plants: Theory, Empirical Evidence, and Consequences. *International Review of Environmental and Resource Economics* 4: 1-49.
- Shavell, S. 1979. Risk Sharing and Incentives in the Principal and Agent Relationship. *Bell Journal of Economics* 10: 55-73.
- Shaw, D.W. and P.M. Jakus. 1996. Travel Cost Models of the Demand for Rock Climbing. *Agricultural and Resource Economics Review* 25: 133-142.
- Shaw, W.D. and M.T. Ozog. 1999. Modeling Overnight Recreation Trip Choice: Application of a Repeated Nested Multinomial Logit Model. *Environmental and Resource Economics* 13(4): 397-414.
- Shepard, D.S. and R.J. Zeckhauser. 1982. Life-Cycle Consumption and Willingness to Pay for Increased Survival. In *The Value of Life and Safety*, ed. M.W. Jones-Lee. Amsterdam, the Netherlands: North-Holland.
- Shogren, J.F. and T.D. Crocker. 1991. Risk, Self-Protection, and Ex Ante Economic Value. *Journal of Environmental Economics and Management* 20(1): 1-15.
- Shonkwiler, J.S. 1999. Recreation Demand Systems for Multiple Site Count Data Travel Cost Models. In *Valuing the Environment Using Recreation Demand Models*, ed. J.A. Herriges and C.L. Kling, 253-269. Edward Elgar.

References

- Short, K. 2011. The Research Supplemental Poverty Measure: 2010, Current Population Reports. U.S. Census. P60-241. November. Available at: http://www.census.gov/hhes/povmeas/methodology/supplemental/research/Short_ResearchSPM2010.pdf (accessed on November 20, 2012).
- Short, K. 2012. The Research Supplemental Poverty Measure: 2011. Current Population Reports. U.S. Census. P60-244. November. Available at: http://www.census.gov/hhes/povmeas/methodology/supplemental/research/Short_ResearchSPM2011.pdf (accessed on November 20, 2012).
- Shrestha, R. and J. Loomis. 2003a. Meta-Analytic Benefit Transfer of Outdoor Recreation Economic Values: Testing Out-of-Sample Convergent Validity. *Environmental and Resource Economics* 25(1): 79-100.
- Shrestha, R. and J. Loomis. 2003b. Testing a Meta-Analysis Model for Benefit Transfer in International Outdoor Recreation. *Ecological Economics* 39(1): 67-83.
- Sieg, H., V.K. Smith, H.S. Banzhaf, and R. Walsh. 2004. Estimating the General Equilibrium Benefits of Large Changes in Spatially Delineated Public Goods. *International Economic Review* 45 (4): 1047-1077.
- Sigman, H. 1995. A Comparison of Public Policies for Lead Recycling. *RAND Journal of Economics* 26(3): 452-478.
- Simpson, R.D., R.A. Sedjo, and J.W. Reid. 1996. Valuing Biodiversity for Use in Pharmaceutical Research. *Journal of Political Economy* 104: 163-185.
- Slovic, P. 1987. Perception of Risk. *Science*, 30(4): 423-439.
- Smith, M.D. 2007. Generating Value in Habitat-dependent Fisheries: the Importance of Fishery Management Institutions. *Land Economics* 83(1): 59-73.
- Smith, M.D. and L.B. Crowder. 2005. Valuing Ecosystem Services with Fishery Rents: A Lumped-Parameter Approach to Hypoxia in the Neuse River. FEEM Working Paper No. 115.05. Available at SSRN: <http://ssrn.com/abstract=825587> (accessed January 31, 2011).
- Smith, R.S. 1974. The feasibility of an ‘injury tax’ approach to occupational safety. *Law and Contemporary Problems* 38(4): 730-744.
- Smith, R.S. 1976. The Occupational Safety and Health Act: Its Goals and Achievements. Washington: American Enterprise Institute.
- Smith, V.K. 1983. The Role of Site and Job Characteristics in Hedonic Wage Models. *Journal of Urban Economics* 13: 296-321.
- Smith, V.K. and C.C.S. Gilbert. 1984. The Implicit Valuation of Risks to Life: A Comparative Analysis. *Economics Letters* 16: 393-399.
- Smith, V.K. and J. Huang. 1995. Can Markets Value Air Quality? A Meta-Analysis of Hedonic Property Value Models. *Journal of Political Economy* 103(11): 209-227.
- Smith, V.K. and L.L. Osborne. 1996. Do Contingent Valuation Estimates Pass a “Scope” Test? A Meta-analysis. *Journal of Environmental Economics and Management* 31(3): 287-301.
- Smith, V.K. and R.B. Palmquist. 1988. *The Value of Recreational Fishing on the Albemarle and Pamlico Estuaries*. Prepared for the U.S. Environmental Protection Agency. October.
- Smith, V.K. and S. Pattanayak. 2002. Is Meta-Analysis a Noah’s Ark for Non-Market Valuation? *Environmental and Resource Economics* 22(1-2): 271-296.
- Smith, V.K., W. Desvouges, and M. McGivney. 1983. The Opportunity Cost of Travel Time in Recreation Demand Models. *Land Economics* 59: 259-278.

- Smith, V.K., H. Sieg, H.S. Banzhaf, and R. Walsh. 2004. General Equilibrium Benefits for Environmental Improvements: Projected Ozone Reductions under EPA's Prospective Analysis for the Los Angeles Air Basin. *Journal of Environmental Economics and Management* 47(3): 559-584.
- Smith, V.K., S.K. Pattanayak, and G.L. van Houtven. 2006. Structural Benefits Transfer: An Example Using VSL Estimates. *Ecological Economics* 60: 361-371.
- Smith, V.K., M.F. Evans, H. Kim, and D.H. Taylor. 2004. Do the Near Elderly Value Mortality Risks Differently? *Review of Economics and Statistics* 86(1): 423-429.
- Solow, R. 1992. An Almost Practical Step toward Sustainability. Paper presented at the Fortieth Anniversary of Resources for the Future, 8 October, in Washington, DC.
- Spackman, M. 2004. Time Discounting and the Cost of Capital in Government. *Fiscal Studies* 25(4): 467-518.
- Spence, A. and M. Weitzman. 1978. Regulatory Strategies for Pollution Control. In *Approaches to Controlling Air Pollution*, ed. A. Frielander. Cambridge, MA: MIT Press.
- Standard & Poor's Corporation. Industry Surveys, (loose-leaf, updated weekly).
- Stanley, T.D. 2001. Wheat from Chaff: Meta-Analysis as Quantitative Literature Review. *The Journal of Economic Perspectives* 15(3): 131-150.
- Stanley, T.D. 2005. Beyond Publication Bias. *Journal of Economic Surveys* 19: 309-345.
- Stanley, T.D. 2008. Meta-Regression Methods for Detecting and Estimating Empirical Effect in the Presence of Publication Selection. *Oxford Bulletin of Economics and Statistics* 70: 103-27.
- Stavins, R., ed. 1988. *Project 88 — Harnessing Market Forces to Protect Our Environment: Initiatives for the New President*. A Public Policy Study, Sponsored by Senator Timothy E. Wirth, Colorado, and Senator John Heinz, Pennsylvania. Washington, DC.
- Stavins, R. 1998a. Economic Incentives for Environmental Regulation. In *The New Palgrave Dictionary of Economics and the Law*, ed. P. Newman. London, Great Britain: The Macmillan Press.
- Stavins, R. 1998b. What Can We Learn from the Grand Policy Experiment? Lessons from SO₂ Allowance Trading. *Journal of Economic Perspectives* 12(3): 69-88.
- Stavins, R., ed. 1991. *Project 88 -- Round II, Incentives for Action: Designing Market-Based Environmental Strategies*. A Public Policy Study, Sponsored by Senator Timothy E. Wirth, Colorado, and Senator John Heinz, Pennsylvania. Washington, DC.
- Stavins, R., ed. 2000a. *Economics of the Environment*, 4th Ed. New York: W.W. Norton.
- Stavins, R. 2000b. Market Based Environmental Policies. In *Public Policies for Environmental Protection*, ed. P.R. Portney and R. N. Stavins. Resources for the Future, Washington, DC.
- Stavins, R. 2003. Experience with Market-Based Environmental Policy Instruments. In *Handbook of Environmental Economics*, Volume I, ed. K.G. Mäler and J. Vincent, Chapter 9: 355-435. Amsterdam: Elsevier Science.
- Stratus Consulting. (2000). Handbook on Using Stated Preference Studies for EPA Economic Analyses. Draft Report prepared for EPA under contract # 68-W6-0055.

References

- Stern, N. 2006. *The Economics of Climate Change: The Stern Review*. Available at: http://www.hm treasury.gov.uk/independent_reviews/stern_review_economics_climate_change/stern_review_report.cfm (accessed August 13, 2008).
- Sterner, T. 2003. *Policy Instruments for Environmental and Natural Resource Management*. Washington, DC: Resources for the Future.
- Sumaila, U.R. and C. Walters. 2005. Intergenerational Discounting: A New Intuitive Approach. *Ecological Economics* 52: 135-142.
- Sunstein, C.R. 1997. Bad Deaths. *Journal of Risk and Uncertainty* 14(3): 259-282.
- Swift, B. 2000. How Environmental Laws Can Discourage Pollution Prevention: Case Studies of Barriers to Innovation. PPI Policy Report. Washington, DC: Progressive Policy Institute.
- Taylor, C.R. 1993. Policy Evaluation Exercises with AGSIM. In *Agricultural Sector Models for the United States: Descriptions and Selected Policy Applications*, ed. C.R. Taylor, K.H. Reichelderfer, and S.R. Johnson. Ames, Iowa: Iowa State University Press.
- Teisl, M., K.J. Boyle, D.W. McCollum, and S.D. Reiling. 1995. Test-Test Reliability of Contingent Valuation with Independent Sample Pretest and Posttest Control Groups. *American Journal of Agricultural Economics* 77: 613-619.
- Thaler, R.H. 1990. Saving, Fungibility, and Mental Accounts. *Journal of Economic Perspectives* 4(1): 193-205.
- Thorsnes, P.G. 2002. The Value of a Suburban Forest Reserve: Estimates from Sale of Vacant Residential Building Lots. *Land Economics* 78(3): 426-441.
- Tietenberg, T. 1998. Disclosure Strategies for Pollution Control. *Environmental and Resource Economics* 11(3-4): 587-602.
- Tietenberg, T., ed. 1999. *Emissions Trading Programs, Vols. I & II*. Ashgate, UK: Aldergate.
- Tietenberg, T. 2002. *Environmental and Natural Resource Economics*. 6th Ed. New York, NY: Harper Collins Publishers.
- Tietenberg, T. 2004. *Environmental Economics and Policy*. Addison-Wesley, 4th Edition.
- Tietenberg, T. and D. Wheeler. 2001. Empowering the Community: Information Strategies for Pollution Control. In *Frontiers of Environmental Economics*, ed. H. Folmer, H. Gabel, S. Gerking, and A. Rose, 85-120. Cheltenham, UK: Edward Elgar.
- Tilman, D., S. Polasky, and C. Lehman. 2005. Diversity, productivity and temporal stability in the economies of humans and nature. *Journal of Environmental Economics and Management* 49: 405-426.
- Timmins, C. and J. Murdock. 2007. A Revealed Preference Approach to the Measurement of Congestion in Travel Cost Models. *Journal of Environmental Economics and Management* 53 (2): 230-249.
- Tol, R.S.J. and G.W. Yohe. 2006. A Review of the Stern Review. Working paper. Available at: <http://www.fnu.zmaw.de/fileadmin/fnu-files/publication/tol/RM551.pdf> (accessed August 13, 2008).
- Tolley, G.S., D. Kenkel, and R. Fabian, eds. 1994. *Valuing Health for Policy: An Economic Approach*. Chicago, IL: University of Chicago Press.

- Toth, F.L. 1994. Discounting in Integrated Assessments of Climate Change. In *Integrative assessment of mitigation, impacts, and adaptation to climate*, ed. N. Nakicenovic, W.D. Nordhaus, R. Richels, and F.L. Toth. Laxenburg, Austria: International Institute of Applied Systems Analysis (IIASA).
- Train, K.E. 1998. Recreation Demand Models with Taste Differences Over People. *Land Economics* 74: 230-239.
- Train, K.E. 2003. *Discrete Choice Methods with Simulation*. Cambridge University Press.
- Tyrväinen, L. and A. Miettinen. 2000. Property Prices and Urban Forest Amenities. *Journal of Environmental Economics and Management* 39(2): 205-223.
- U.S. Bureau of the Census (various years). Pollution Abatement Costs and Expenditures. Washington, DC: U.S. Government Printing Office.
- U.S. Congressional Budget Office (U.S. CBO). 1988. Assessing the Costs of Environmental Legislation. Staff Working Paper, May.
- U.S. CBO. 1998. The Economic Effects of Federal Spending on Infrastructure and Other Investments. Available at: <http://www.cbo.gov/ftpdocs/6xx/doc601/fedspend.pdf> (accessed April 6, 2010).
- U.S. CBO. 2005. Uncertainty in Analyzing Climate Change: Policy Implications. Available at: <http://www.cbo.gov/ftpdocs/60xx/doc6061/01-24-ClimateChange.pdf> (accessed March 26, 2010).
- U.S. Council on Environmental Quality (CEQ), Environmental Justice: Guidance Under the National Environmental Policy Act (NEPA), December 1997. Available at: <http://ceq.hss.doe.gov/nepa/regs/ej/justice.pdf> (accessed March 21, 2011).
- U.S. Department of Commerce (U.S. DOC). Economic Census. Published every five years. U.S. Census Bureau Washington, DC: U.S. Government Printing Office.
- U.S. DOC. Pollution Abatement Costs and Expenditures. U.S. Census Bureau. Published periodically. Washington, DC.
- U.S. DOC. Survey of Current Business. Monthly reports. Bureau of Economic Analysis. Washington, DC: U.S. Government Printing Office.
- U.S. DOC. U.S. Industry and Trade Outlook: Annual report. International Trade Administration. Washington, DC: U.S. Government Printing Office.
- U.S. Environmental Protection Agency (U.S. EPA). 1983. *Guidelines for Performing Regulatory Impact Analyses*. EPA-230-84-003. Reprinted with appendices in March 1991.
- U.S. EPA. 1985. Costs and Benefits of Reducing Lead in Gasoline: Final Regulatory Impact Analysis. EPA-230-05-85-006. Available at: [\\$file/EE-0034-1.pdf](http://yosemite.epa.gov/ee/epa/eermfile.nsf/vwAN/EE-0034-1.pdf) (accessed August 7, 2008)
- U.S. EPA. 1989. Regulatory Impact Analysis of Controls on Asbestos and Asbestos Products: Final Report. Prepared by the Office of Pesticides and Toxic Substances.
- U.S. EPA. 1991. Permitting and Compliance Policy: Barriers to U.S. Environmental Technology Innovation. EPA-101-N-91-001.
- U.S. EPA. 1995a. Interim Economic Guidance for Water Quality Standards: Workbook, Office of Water. EPA-823-B-95-002, March 1995.

References

- U.S. EPA. 1995b. Interim Guidance on the Unfunded Mandates Reform Act of 1995, memorandum from the Office of General Counsel, March 23, 1995. Available at: <http://intranet.epa.gov/adplibrary/documents/umraguidance-03-25-95.pdf> (accessed February 28, 2011, internal EPA document).
- U.S. EPA. 1995c. Regulatory Impact Analysis of Proposed Effluent Limitations Guidelines and Standards for the Metal Products and Machinery Industry. Office of Water. EPA/821/R-95-023.
- U.S. EPA. 1997a. The Benefits and Costs of the Clean Air Act: 1970-1990, Prepared by the Office of Air and Radiation and the Office of Policy, Planning and Evaluation. EPA/410/R-97/002.
- U.S. EPA. 1997b. Combined Sewer Overflows Guidance for Financial Capability Assessment and Schedule Development, Final. Office of Water, Office of Wastewater Management, EPA 932-B-97-004.
- U.S. EPA. 1997c. Economic Analysis for the National Emission Standards for Hazardous Air Pollutants for Source Category: Pulp and Paper Production; Effluent Limitations Guidelines, Pretreatment Standards, and New Source Performance Standards: Pulp, Paper and Paperboard Category-Phase I. EPA Contract No. 68-C3-0302. Available at: <http://www.epa.gov/waterscience/guide/pulppaper/jd/pulp.pdf> (accessed September 13, 1997).
- U.S. EPA. 1997d. Guiding Principles for Monte Carlo Analysis. Risk Assessment Forum, EPA/630/R-97/001. March. Available at: <http://cfpub.epa.gov/ncea/raf/recordisplay.cfm?deid=29596> (accessed January 31, 2011).
- U.S. EPA. 1997e. Policy for use of probabilistic analysis in risk assessment. Memorandum of Fred Hansen, Deputy Administrator, May 15, 1997. Available at: <http://www.epa.gov/spc/pdfs/probpol.pdf> (accessed February 28, 2011).
- U.S. EPA. 1997f. Regulatory Impact Analyses for the Particulate Matter and Ozone National Ambient Air Quality Standards and Proposed Regional Haze Rule, prepared by Innovative Strategies and Economics Group, OAQPS, Research Triangle Park, NC, July 16.
- U.S. EPA. 1998a. Final Guidance for Incorporating Environmental Justice Concerns in EPA's NEPA Compliance Analyses. Office of Federal Activities, April. Available at: http://www.epa.gov/Compliance/resources/policies/ej/ej_guidance_nepa_epa0498.pdf (accessed August 7, 2008).
- U.S. Environmental Protection Agency (U.S. EPA). 1998b. Final Guidance for Incorporating Environmental Justice Concerns in EPA's NEPA Compliance Analyses. April 1998. Available at: http://www.epa.gov/compliance/environmentaljustice/resources/policy/ej_guidance_nepa_epa0498.pdf (accessed November 30, 2011).
- U.S. EPA. 1998c. EPA Rule Writer's Guide to Executive Order 13045: Guidance for Considering Risks to Children During the Establishment of Public Health-Related and Risk-Related Standards. Available at: [http://yosemite.epa.gov/ochp/ochpweb.nsf/content/rrguide.htm/\\$File/rrguide.pdf](http://yosemite.epa.gov/ochp/ochpweb.nsf/content/rrguide.htm/$File/rrguide.pdf) (accessed April 14, 2004).
- U.S. EPA. 1998d. Guidance for Conducting Fish and Wildlife Consumption Surveys. Office of Water. EPA-823-B-98-007. November 1998. Available at: <http://www.epa.gov/waterscience/fish/files/fishguid.pdf> (accessed October 18, 2010).
- U.S. EPA. 1999. The Benefits and Costs of the Clean Air Act: 1990-2010. EPA 410-R-99-001.
- U.S. EPA. 2000a. EPA Order 5360.1 A2. Policy and Program Requirements for the Mandatory Agency-Wide Quality System. May 5, 2000.

- U.S. EPA. 2000b. *Guidelines for Preparing Economic Analyses*. EPA-240-R-00-003. September.
- U.S. EPA. 2000c. Handbook for Non-Cancer Health Effects Valuation. Non-Cancer Health Effects Valuation Subcommittee of the EPA Social Science Discussion Group. Available at: <http://www.epa.gov/OSA/spc/pdfs/chapters.pdf> (accessed January 31, 2011).
- U.S. EPA. 2000d. SAB Report on EPA's White Paper Valuing the Benefits of Fatal Cancer Risk Reduction. EPA-SAB-EEAC-00-013.
- U.S. EPA. 2001a. The United States Experience with Economic Incentives for Protecting the Environment. EPA-240-R-01-001, Office of the Administrator.
- U.S. EPA. 2001b. Arsenic Rule Benefits Analysis: A Review by the Arsenic Rule Benefits Review Panel (ARBRP) of the U.S. EPA SAB. EPA-SAB-EC-01-008.
- U.S. EPA. 2002a. *Achievement Through Partnership: A Progress Report Through 2000*. Washington, DC: EPA, EPA-240R-02-001.
- U.S. EPA. 2002b. *Air Pollution Control Cost Manual*, 6th Ed. OAQPS. EPA/452/B-02-001.
- U.S. EPA. 2002c. Environmental and Economic Benefit Analysis of Final Revisions to the National Pollutant Discharge Elimination System Regulation and the Effluent Guidelines for Concentrated Animal Feeding Operations. EPA-821-R-03-003.
- U.S. EPA. 2002d. Final Regulatory Support Document: Control of Emissions from Unregulated Nonroad Engines. EPA-420-R-02-022. Available at: <http://www.epa.gov/nonroad/2002/r02022.pdf> (accessed April 9, 2010).
- U.S. EPA. 2002e. A Framework for the Economic Assessment of Ecological Benefits. Available at: <http://www.epa.gov/OSA/spc/pdfs/feaeb3.pdf> (accessed January 31, 2011).
- U.S. EPA. 2002f. Guidance for Quality Assurance Project Plans EPA QA/G-5. Office of Environmental Information, EPA/240/R-02/009. December.
- U.S. EPA. 2003a. Children's Health Valuation Handbook. Available at: [http://yosemite.epa.gov/ee/epa/eed.nsf/cbd494e04061784d85256a2b006c1945/6ed3736d44c87a4a85256dc1004da4ac/\\$FILE/handbook1030.pdf](http://yosemite.epa.gov/ee/epa/eed.nsf/cbd494e04061784d85256a2b006c1945/6ed3736d44c87a4a85256dc1004da4ac/$FILE/handbook1030.pdf) (accessed December 1, 2011).
- U.S. EPA. 2003b. America's Children and the Environment Measures of Contaminants, Body Burdens and Illnesses, 2nd Ed. EPA/240-R-03-001. February.
- U.S. EPA. 2003c. Children's Health Valuation Handbook. Office of Children's Health Protection and Office of Policy, Economics, and Innovation, EPA 100-R01-002. Available at: <http://yosemite.epa.gov/ee/epa/eed.nsf/webpages/HandbookChildrensHealthValuation.html> (accessed January 31, 2011).
- U.S. EPA. 2003d. Tools of the Trade: A Guide to Designing and Operating a Cap and Trade Program for Pollution Control. Office of Air and Radiation. EPA430-B-03-002. Available at: <http://www.epa.gov/AIRMARKET/resource/docs/tools.pdf> (accessed January 31, 2011).
- U.S. EPA. 2003e. Water Quality Trading. January 13. Available at: <http://www.epa.gov/owow/watershed/trading/finalpolicy2003.pdf> (accessed August 7, 2008).
- U.S. EPA. 2004a. International Experiences with Economic Incentives for Protecting the Environment. EPA-236-R-04-001, Office of the Administrator.

References

- U.S. EPA. 2004b. Water Quality Trading Assessment Handbook: Can Water Quality Trading Advance Your Watershed's Goals? Office of Water. EPA 841-B-04-001.
- U.S. EPA. 2004c. Review Of The Revised Analytical Plan For EPA's Second Prospective Analysis-Benefits And Costs Of The Clean Air Act 1990-2020: An Advisory by a Special Panel of the Advisory Council on Clean Air Compliance Analysis. EPA-SAB-COUNCIL-ADV-04-004.
- U.S. EPA. 2005a. Guidelines for Carcinogen Risk Assessment. Available at: <http://www.epa.gov/cancerguidelines/> (accessed December 1, 2011).
- U.S. EPA. 2005b. Aging and Toxic Response: Issues Relevant to Risk Assessment. Available at: <http://nepis.epa.gov/Adobe/PDF/P100CJ6L.PDF> (accessed December 1, 2011).
- U.S. EPA. 2005c. Guidance on Selecting Age Groups for Monitoring and Assessing Childhood Exposures to Environmental Contaminants. Available at: <http://www.epa.gov/raf/publications/guidance-on-selecting-age-groups.htm> (accessed December 1, 2011).
- U.S. EPA. 2005d. Economic Analysis for the Final Stage 2 Disinfectants and Disinfection Byproducts Rule. December 2005. EPA 815-R-05-010. Available at: http://www.epa.gov/safewater/disinfection/stage2/pdfs/anaylsis_stage2_ecconomic_main.pdf (accessed March 21, 2011).
- U.S. EPA. 2005e. Guidelines for Carcinogen Risk Assessment. Available at: <http://www.epa.gov/cancerguidelines/> (accessed December 1, 2011).
- U.S. EPA. 2005f. OGC Desktop Reference Guide: Partial Summary of Cross-Cutting Statutory and Executive Order Reviews that May Apply to Agency Rulemakings. Office of General Council. June 2005. Available at: <http://intranet.epa.gov/ogc/memoranda/desktopprefguide.pdf> (accessed August 7, 2008, internal EPA document).
- U.S. EPA. 2006a. A Framework for Assessing Health Risks of Environmental Exposures to Children (Final). Washington, DC: EPA/600/R-05/093F. Available at: <http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=158363> (accessed December 1, 2011).
- U.S. EPA. 2006b. Guide to Considering Children's Health When Developing EPA Actions: Implementing Executive Order 13045 and EPA's Policy on Evaluating Health Risks to Children. Available at: [http://yosemite.epa.gov/ochp/ochpweb.nsf/85256D1F007027AD852572190058AAC8/\\$File/EPA_ADP_Guide_508.pdf](http://yosemite.epa.gov/ochp/ochpweb.nsf/85256D1F007027AD852572190058AAC8/$File/EPA_ADP_Guide_508.pdf) (accessed December 1, 2011).
- U.S. EPA. 2006c. Ecological Benefits Assessment Strategic Plan. EPA-240-R-06-001. Office of the Administrator, Washington, DC. Available at: <http://www.epa.gov/economics/> (accessed January 31, 2011).
- U.S. EPA. 2006d. National Ambient Air Quality Standards for Particle Pollution. EPA-HQ-OAR-2001-0017. Available at: <http://www.epa.gov/ttn/naaqs/standards/pm/data/fr20061017.pdf> (accessed January 31, 2011).
- U.S. EPA. 2006e. Revised Final Guidance for EPA Rulewriters: Regulatory Flexibility Act as amended by the Small Business Regulatory Enforcement Fairness Act. Available at: <http://www.epa.gov/sbrefa/documents/rfaguidance11-00-06.pdf> (accessed February 28, 2011).
- U.S. EPA. 2006f. Small Engine Buyback. Office of Air and Radiation. December 11, 2006. Available at: <http://www.epa.gov/air/recipes/smalleng.html> (accessed August 7, 2008).
- U.S. EPA. 2006g. Willingness to Pay for Environmental Health Risk Reductions when there are Varying Degrees of Life Expectancy: A White Paper. Available at: <http://yosemite.epa.gov/ee/epa/eerm.nsf/vwRepNumLookup/EE-0495?OpenDocument> (accessed January 31, 2011).

- U.S. EPA. 2007a. Acid Rain and Related Programs: 2006 Progress Report. EPA-430-R-07-011. Office of Air and Radiation, Clean Markets Division.
- U.S. EPA. 2007b. Benefits and Costs of Clean Air Act — Direct Costs and Uncertainty Analysis. EPA-COUNCIL-07-002.
- U.S. EPA. 2007c. The Cost of Illness Handbook. Office of Toxic Substances. Available at: <http://www.epa.gov/oppt/coi/> (accessed August 7, 2008).
- U.S. EPA. 2007d. Elasticity Databank. Office of Air and Radiation. Available at: <http://www.epa.gov/ttnecas1/Elasticity.htm> (accessed August 7, 2008).
- U.S. EPA. 2007e. EPA Partnership Program Review. Internal Draft Report.
- U.S. EPA. 2007f. EPA Water Quality Trading News. March. Available at: http://www.epa.gov/owow/watershed/trading/newsletter/trading_newsletter032007.pdf (accessed May 15, 2008).
- U.S. EPA. 2007g. SAB Advisory on EPA's Issues in Valuing Mortality Risk Reduction. Available at: [http://yosemite.epa.gov/sab/sabproduct.nsf/128007E7876B8F0852573760058A978/\\$File/sab-08-001.pdf](http://yosemite.epa.gov/sab/sabproduct.nsf/128007E7876B8F0852573760058A978/$File/sab-08-001.pdf) (accessed January 31, 2011).
- U.S. EPA. 2007h. Water Quality Trading Toolkit for Permit Writers. EPA-833-R-07-004. August. Available at: <http://www.epa.gov/owow/watershed/trading/WQTToolkit.html> (accessed May 15, 2008).
- U.S. EPA. 2008a. Regulatory Impact Analysis for the Final Lead Renovation, Repair, and Painting Rule. Available at http://www.nchh.org/Portals/0/Contents/EPA-HQ-OPPT-2005-0049-0916_Final_Economic_Analysis_3-08.pdf (accessed January 14, 2013).
- U.S. EPA. 2008b. Child-Specific Exposures Handbook. Available at: <http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=199243>. (accessed December 1, 2011).
- U.S. EPA. 2008c. Lead Renovation, Repair, and Painting Program; Final Rule. Federal Register 73: 78, pp. 21692.
- U.S. EPA. 2008d. Acid Rain. April 4, 2008. Available at: <http://www.epa.gov/acidrain/> (accessed August 7, 2008).
- U.S. EPA. 2008e. Environmental Innovation. July 25, 2008. Available at: <http://www.epa.gov/innovation> (accessed August 7, 2008).
- U.S. EPA. 2008f. Guidance on Executive Order 13132: Federalism. Office of Policy, Economics and Innovation. Available at <http://intranet.epa.gov/actiondp/documents/federalismguide11-00-08.pdf> (accessed February 28, 2011, internal EPA document).
- U.S. EPA. 2008g. Memorandum on Energy Executive Order 13211 — Preliminary Guidance. Available at: <http://intranet.epa.gov/adplibrary/statutes.htm#energy> under the heading "Preamble Language" (accessed August 7, 2008, internal EPA document).
- U.S. EPA. 2008h. Partnership Programs: List of Programs. May 13, 2008. Available at: <http://www.epa.gov/partners/programs/index.htm> (accessed August 7, 2008).
- U.S. EPA. 2008i. Pollution Prevention (P2). Office of Prevention, Pesticides, and Toxic Substances. August 7, 2008. Available at: <http://www.epa.gov/p2> (accessed August 7, 2008).
- U.S. EPA. 2009a. Highlights of the Child-Specific Exposure Factors Handbook. Available at: <http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=200445> (accessed December 1, 2011).

References

- U.S. EPA. 2009b. Risk Assessment: Guidance & Tools. December 15, 2009. Available at: http://www.epa.gov/risk_assessment/guidance.htm (accessed March 31, 2010).
- U.S. EPA. 2009c. Valuing the Protection of Ecological Systems and Services: A Report of the EPA Science Advisory Board.
- U.S. EPA. 2010a. Interim Guidance on Considering Environmental Justice During the Development of an Action. Office of Policy Economics and Innovation Development Series. Available at: <http://www.epa.gov/environmentaljustice/resources/policy/considering-ej-in-rulemaking-guide-07-2010.pdf> (accessed April 29, 2011).
- U.S. EPA. 2010b. FY 2011-2015, EPA Strategic Plan, September 30, 2010. Available at: <http://nepis.epa.gov/Adobe/PDF/P1008YOS.PDF> (accessed November 30, 2011).
- U.S. EPA. 2010c. Interim Guidance on Considering Environmental Justice During the Development of an Action. Office of Policy Economics and Innovation Development Series. Available at: <http://www.epa.gov/environmentaljustice/resources/policy/considering-ej-in-rulemaking-guide-07-2010.pdf> (Accessed April 29, 2011). U.S. EPA. Undated. Interim Small Government Agency Plan. Available at: <http://intranet.epa.gov/adplibrary/statutes/umra.htm> (accessed March 21, 2011, internal EPA document).
- U.S. EPA. 2011a. Plan EJ 2014 Legal Tools. Available at <http://www.epa.gov/environmentaljustice/resources/policy/plan-ej-2014/ej-legal-tools.pdf> (accessed January 15, 2013).
- U.S. EPA. 2011b. Regulatory Impact Analysis for the Cross-State Air Pollution Rule. Available at: <http://www.epa.gov/airtransport/pdfs/FinalRIA.pdf> (accessed March 12, 2012).
- U.S. EPA. 2011c. Handbook on the Benefits, Costs, and Impacts of Land Cleanup and Reuse. Available at: [\\$file/EE-0569-02.pdf](http://yosemite.epa.gov/ee/epa/erm.nsf/vwAN/EE-0569-02.pdf) (accessed January 8, 2013).
- U.S. EPA. 2011d. Exposure Factors Handbook. Available at: <http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=236252> (accessed December 1, 2011).
- U.S. EPA. 2012a. Basic Information: Environmental Justice. Available at: <http://www.epa.gov/environmentaljustice/basics/index.html> (accessed January 15, 2013).
- U.S. EPA. 2012b. Technical Guidance for Assessing Environmental Justice in Regulatory Analysis. Internal Review Draft (October 2012).
- U.S. General Accounting Office (GAO). 1990. Solid Waste: Trade-Offs Involved in Beverage Container Deposit Legislation, GAO/RCED-91-25, Resources, Community and Economic Development Division.
- U.S. Interagency Working Group on Social Costs of Carbon. 2010. *Technical Support Document: Social Cost of Carbon for Regulatory Impact Analysis Under Executive Order 12866*. Available at www.epa.gov/otaq/climate/regulations/scc-tsdpdf (accessed March 21, 2011).
- U.S. Securities and Exchange Commission (SEC). 2008. SEC Filings & Forms (EDGAR). Available at: www.sec.gov/edgar.shtml (accessed August 7, 2008).
- U.S. Small Business Administration (SBA). Size Standards. May 18, 2004. Available at <http://www.sba.gov/size> (accessed February 22, 2011).
- United Church of Christ (UCC), Commission for Racial Justice. 1987. *Toxic Waste and Race in the United States*. Available at: <http://www.ucc.org/about-us/archives/pdfs/toxwrace87.pdf> (accessed on November 30, 2011).

- United Nations, Statistical Office, International Trade Statistics Yearbook, New York, NY (2 volumes).
- Valdés, B. 1999. *Economic Growth: Theory, Empirics and Policy*. Edward Elgar Publishing Limited, Northampton, MA.
- Value Line. Investment Survey (loose-leaf in several volumes, with weekly updates). New York, NY.
- van der Zwaan, B. and A. Rabl. 2004. The Learning Potential of Photovoltaics: Implications for Energy Policy. *Energy Policy* 32: 1545-1554.
- Van Horn Consulting, Energy Ventures Analysis, Inc., and K.D. White. 1993. Integrated Analysis of Fuel, Technology and Emission Allowance Markets. Prepared for the Electric Power Research Institute, EPRI TR- 102510.
- Van Houtven, G., J. Powers, A. Jessup, and J.C. Yang. 2006. Valuing avoided morbidity using meta-regression analysis: what can health status measures and QALYs tell us about WTP? *Health Economics* 15: 775-795.
- Van Houtven, G. and V.K. Smith. 1999. Willingness to Pay for Reductions in Infertility Risks: A Contingent Valuation Study. Presented at USEPA Workshop, "Valuing Health for Environmental Policy with Special Emphasis on Children's Health Issues."
- Van Houtven, G., M.B. Sullivan, and C. Dockins. 2008. Cancer Premiums and Latency Effects: A Risk Tradeoff Approach for Valuing Reductions in Fatal Cancer Risks. *Journal of Risk and Uncertainty* 36(2): 179-199.
- Varian, H. 1992. *Microeconomic Analysis*. New York: W.W. Norton & Co., Inc.
- Varian, H. 2005. *Intermediate Microeconomics: A Modern Approach*, 7th Ed. New York: W.W. Norton & Co., Inc.
- Vassanadumrongdee, S., S. Matsuoka, and H. Shirakawa. 2004. Meta-analysis of Contingent Valuation Studies on Air Pollution-Related Morbidity Risks. *Environmental Economics and Policy Studies* 6: 11-47.
- Videras, J. and A. Alberini. 2000. The Appeal of Voluntary Environmental Programs: Which Firms Participate and Why? *Contemporary Economic Policy* 18(4): 449-61.
- Viscusi, W.K. 1978. Labor market valuations of life and limb: empirical evidence and policy implications. *Public Policy* 26(3): 359-386.
- Viscusi, W.K. 1981. Occupational Safety and Health Regulation: Its Impact and Policy Alternatives. *Research in Public Policy Analysis and Management* 2: 281-299.
- Viscusi, W.K. 1992. *Fatal Tradeoffs: Public and Private Responsibilities for Risk*. New York, NY: Oxford University Press.
- Viscusi, W.K. 1993. The Value of Risks to Life and Health. *Journal of Economic Literature* 31(4): 1912-1946.
- Viscusi W.K. 2003. Racial differences in labor market values of statistical life. *Journal of Risk and Uncertainty* 27(3): 239-256.
- Viscusi, W.K. 2004. The Value of Life: Estimates with Risks by Occupation and Industry. *Economic Inquiry* 42(10): 29-48.
- Viscusi, W.K. and J.E. Aldy. 2003. The Value of a Statistical Life: A Critical Review of Market Estimates throughout the World. *Journal of Risk and Uncertainty* 27(1): 5-76.
- Viscusi, W.K. and J. Aldy. 2007a. Age Differences in the Value of Statistical Life: Revealed Preference Evidence. *Review of Environmental Economics and Policy* 1(2): 241-260.

References

- Viscusi, W.K. and J.E. Aldy. 2007b. Labor market estimates of the senior discount for the value of statistical life. *Journal of Environmental Economics and Management* 53(3): 377-392.
- Viscusi, W.K. and M.J. Moore. 1989. Rates of Time Preference and Valuations of the Duration of Life. *Journal of Public Economics* 38: 297-317.
- Viscusi, W.K., W.A. Magat, and J. Huber. 1991. Pricing Environmental Health Risks: Survey Assessments of Risk-Risk and Risk-Dollar Trade-Offs for Chronic Bronchitis. *Journal of Environmental Economics and Management* 21(1): 32-51.
- Voinov, A. and J. Farley. 2007. Reconciling Sustainability, Systems Theory and Discounting. *Ecological Economics* 63(1): 104-113.
- von Haefen, R.H. and D.J. Phaneuf. 2004. Kuhn-Tucker Demand System Approaches to Non-Market Valuation Prepared for Applications of Simulation Methods. In *Environmental and Resource Economics*, ed. A. Alberini and R. Scarpa.
- von Haefen, R.H. and D.J. Phaneuf. 2005. Continuous Demand System Approaches to Nonmarket Valuation. In *Applications of Simulation Methods in Environmental & Resource Economics*, ed. R. Scarpa and A. Alberini. Dordrecht: Springer.
- von Haefen, R.H. and D.J. Phaneuf. 2008. Identifying Demand Parameters in the Presence of Unobservables: A Combined Revealed and Stated Preference Approach. *Journal of Environmental Economics and Management* 56(1): 19-32.
- von Haefen, R.H., D.J. Phaneuf, and G.R. Parsons. 2004. Estimation and Welfare Analysis with Large Demand Systems. *Journal of Business and Economic Statistics* 22(2): 194-205.
- Vossler, C.A., R.G. Ethier, G.L. Poe, and M.P. Welsh. 2003. Payment certainty in discrete choice contingent valuation responses: results from a field validity test. *Southern Economic Journal* 69(4): 886-902.
- Wackernagel, M. and W. Rees. 1996. *Our Ecological Footprint: Reducing Human Impact on Earth*. Gabriola Island, BC. New Society Publishers.
- Wallace, K.J. 2007. Classification of Ecosystem Services: Problems and Solutions. *Biological Conservation* 139: 235-246.
- Weitzman, M. 1974. Prices Versus Quantities. *Review of Economic Studies* 41(4): 477-491.
- Weitzman, M.L. 1992. On Diversity. *The Quarterly Journal of Economics* 107(2): 363-405.
- Weitzman, M.L. 1998. Why the Far-Distant Future Should Be Discounted at Its Lowest Possible Rate. *Journal of Environmental Economics and Management* 36(3): 201-208.
- Weitzman, M.L. 2001. Gamma Discounting. *American Economic Review* 91(1): 260-271.
- White, K. 1997. SO₂ Compliance and Allowance Trading: Developments and Outlook. Prepared for the Electric Power Research Institute (EPRI) EPRI TR-107897 (April).
- White, K., Energy Ventures Analysis, Inc., and Van Horn Consulting. 1995. The Emission Allowance Market and Electric Utility SO₂ Compliance in a Competitive and Uncertain Future. Prepared for the Electric Power Research Institute (EPRI), TR-105490, Palo Alto, CA. Final report: September.

- White House. 1994. Memorandum for the Heads of All Departments and Agencies: Executive Order on Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, February 11, 1994. Available at: http://www.epa.gov/compliance/ej/resources/policy/clinton_memo_12898.pdf (accessed November 30, 2011).
- Whitehead, J.C. 2002. Incentive Incompatibility and Starting-Point Bias in Iterative Valuation Questions. *Land Economics* 78(2): 285-297.
- Whitehead, J.C., S.K. Pattanayak, G.L. Van Houtven, and B.R. Gelso. 2008. Combining Revealed and Stated Preference Data to Estimate the Nonmarket Value of Ecological Services: An Assessment of the State of the Science. *Journal of Economic Surveys* 22: 872-908.
- Whittington, D. and D. MacRae, Jr. 1986.. The Issue of Standing in Cost-Benefit Analysis. *Journal of Policy Analysis and Management* 5(4): 665-682.
- Willig, R.D. 1976. Consumer's Surplus without Apology. *The American Economic Review* 66(4): 589-97.
- Willis, K.G. and G.D. Garrod. 1991. Amenity Value of Forests in Great Britain and its Impact on the Internal Rate of Return from Forestry. *Forestry* 65(3): 331-346.
- Wolverton, A. 2009. Effects of Socio-Economic and Input-Related Factors on Polluting Plants' Location Decisions. *Berkeley Electronic Journal of Economic Analysis and Policy Advances* 9(1): Article 14.
- Woodward, R.T. and Y. Wui. 2001. The Economic Value of Wetland Services: a Meta-analysis. *Ecological Economics* 37(2): 257-270.
- World Bank. 2000. *Greening Industry: New Roles for Communities, Markets, and Governments*. New York: Oxford University Press.
- World Health Organization (WHO). 2007. Principles for evaluating health risks in children associated with exposure to chemicals. *Environmental Health Criteria* 237. International Programme on Chemical Safety (IPCS). Available at: <http://www.who.int/ipcs/features/ehc/en/index.html> (accessed April 27, 2012).
- Xabadia, A., R.U. Goetz, and D. Zilberman. 2008. The Gains from Differentiated Policies to Control Stock Pollution When Producers Are Heterogeneous. *American Journal of Agricultural Economics* 90(4): 1059-1073.
- Xu, F., R. Mittlehammer, and P.W. Barkley. 1993. Measuring the contribution of site characteristics to the value of agricultural land. *Land Economics* 69(4): 356-69.
- Yang, T., K. Maus, S. Paltev, and J. Reilly. 2004. Economic Benefits of Air Pollution Regulation in the USA: An Integrated Approach. MIT Joint Program on the Science and Policy of Global Change Report No. 113. Available at: http://web.mit.edu/globalchange/www/MITJPSPGC_Rpt113.pdf (accessed January 31, 2011).

References

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