

CURRICULUM VITAE

March 2000

Thomas H. Stevens

Office Address:

Dept. of Resource Economics
226 Draper Hall
University of Massachusetts
Amherst, Massachusetts 01003
(413) 545-5714; fax (413) 545-5853
e-mail: tstevens@resecon.umass.edu

Major Areas of Concentration:

Resource and Environmental Economics, Public Policy, Natural Resources Management

Education:

B.S., Agricultural Economics, Cornell University, 1966
M.S., Agricultural Economics, University of Delaware, 1968
Ph.D., Resource Economics, Cornell University, 1972

Experience:

1972-1973, Economist, State of Washington, Department of Ecology
Olympia, Washington
1973-1974, Senior Research Associate, Cornell University, Ithaca,
New York
1974-1977, Assistant Professor, New Mexico State University, Las Cruces,
New Mexico, and (1976-1977) consultant to Los Alamos
Scientific Laboratories, Los Alamos, New Mexico
1978-1981, Assistant Professor, University of Massachusetts, Amherst,
Massachusetts
1981-1988, Associate Professor, University of Massachusetts, Amherst,
Massachusetts.
1989-present, Professor of Resource Economics, University of
Massachusetts, Amherst, MA

Teaching:

Recipient of 1995-1996 College Outstanding Teaching Award
Current Courses: Introduction to Resource Economics (Basic Micro Theory), Benefit/Cost
Analyses, Environmental Economics (graduate and undergraduate)

Publications:

Author or co-author of 42 refereed articles in journals including:

Ecological Economics
Journal of Environmental Management
Journal of Forestry
Land Economics
Agricultural and Resource Economics Review
Wetlands
Water Resources Bulletin
Energy Journal

Author or co-author of 32 monographs, 1 book chapter and over 20 papers presented at professional meetings.

Current Grants:

USDA Forest Service, \$20,000
USDA Competitive Grant, \$160,000
NSF/EPA, \$53,870.

Publications

Refereed Journals:

Stevens, Thomas H., R. Belkner, D. Dennis, R. Kittredge, and C. Willis. 2000. "Comparison of Contingent Valuation and Conjoint Analysis in Ecosystem Management." *Ecological Economics*. 32(1):63-74.

Stevens, Thomas H., D. Dennis, D. Kittredge, and M. Rickenbach. 1999. "Attitudes and Preferences Toward Co-operative Agreements for Management of Private Forestland in the Northeastern United States." *Journal of Environmental Management*. 55:81-90.

Streever, W.J., M. Callaghan-Perry, A. Senries, T. Stevens, and P. Svoboda. 1998. "Public Attitudes and Values for Wetland Conservation in New South Wales, Australia." *Journal of Environmental Management*. 54(1):1-14.

Rickenbach, Mark G., David B. Kittredge, Don Dennis, and Tom Stevens. 1998. "Ecosystem Management: Capturing the Concept for Woodland Owners." *Journal of Forestry*. 96(4):18-24.

Stevens, Thomas H., C. Barrett, and C. Willis. 1997. "Conjoint Analysis of Groundwater Protection Programs." *Agricultural and Resource Economics Review*. 27(2):229-236.

Stevens, Thomas H., Nichole E. De Coteau and Cleve E. Willis. 1997. "Sensitivity of Contingent Valuation to Alternative Payment Schedules". *Land Economics*. 73(1):140-148.

More, Thomas A., James R. Averill and Thomas H. Stevens. 1996. "Values and Economics in Environmental Management: A Perspective and Critique." *Journal of Environmental Management*. 48(4):397-409.

Stevens, Thomas H., Samuel Benin and Joseph S. Larson. 1995. "Public Attitudes and Economic Values For Wetland Preservation in New England." *Wetlands*. 15(3):226-231.

Stevens, T.H., T. More and R. Glass. 1994. "Interpretation and Temporal Stability of CV Bids for Wildlife Existence: A Panel Study." *Land Economics*. 70(3):355-363.

Stevens, Thomas H., Thomas A. More, Ronald J. Glass. 1994. "Public Attitudes About Coyotes in New England." *Society and Natural Resources Journal*. 7:57-66.

Stevens, T. H., T. More and R. Glass. 1993. "Measuring the Existence Value of Wildlife: Reply". *Land Economics*. 69(3):309-312.

Stevens, T. H., Jonathan Miller and Cleve Willis. August 1993. "Effect of Pricing Structure on Residential Water Demand." *Water Resources Bulletin*. 28(4):681-685.

Halstead, John, A. Luloff and Thomas H. Stevens. October 1992. "Protest Bidders in Contingent Valuation." *Northeast Journal of Agricultural and Resource Economics*. pp. 160-169.

Stevens, Thomas H., et al. November 1991. "Measuring the Existence Value of Wildlife: What Do CVM Estimates Really Show?" *Land Economics*. 67(4):390-400.

Stevens, T. H., R. Glass, T. More, and J. Echeverria. 1991. "Wildlife Recovery: Is Benefit-Cost Analysis Appropriate?" *Journal of Environmental Management*. 33:327-334.

Male, J., J. Moriarty, Thomas H. Stevens and C. Willis. June 1991. "Water Supply Costs for Small Private Utilities." *Water Resources Bulletin*. 27(3):521-526.

Stevens, T.H., T. More and P.G. Allen. 1989. "Pricing Policies for Public Day-Use Outdoor Recreation Facilities." *Journal of Environmental Management*. 28:43-52.

More, T., T.H. Stevens and P.G. Allen. 1988. "Valuation of Urban Parks." *Landscape and Urban Planning*. 15:139-152.

Stevens, T.H. and Gail Adams. October 1986. "Testing For Changes in the Price Elasticity of Residential Electricity Demand." *Northeastern Journal of Agr. and Resource Economics*. 15:123-129.

Stevens, T.H., G. Adams and C. Willis. August, 1985. "The Specification of Price in Studies of Consumer Demand Under Block Price Scheduling: Comment." *Land Economics*. 61:327-329.

Allen, P.G., T.H. Stevens and T.A. More. June 1985. "Measuring the Economic Value of Urban Parks: A Caution." *Leisure Sciences*. Vol. 7.

Young, T., T.H. Stevens and C. Willis. Spring 1984. "Asymmetry in the Residential Demand for Electricity." *The Energy Journal*. 4:153-162.

Young, T. and T.H. Stevens. Spring 1983. "Modeling the Residential Demand For Electricity in New England." *J. of the Northeast Ag. Ec. Council*. Vol. XII(1):75-82.

Hagerty, J.K., T.H. Stevens, et al. Spring 1982. "Benefits From Urban Open Space and Recreational Parks: A Case Study." *J. of the Northeast Agr. Econ. Council*. Vol. XI(1).

More, T.A., T.H. Stevens and P.G. Allen. August 1982. "The Economics of Urban parks: A Benefit/Cost Analysis." *Parks and Recreation Journal*.

Allen, P.G., T.H. Stevens and Scott Barrett. May 1981. "An Evaluation of the Effect of Variable Omission in the Travel Cost Technique." *Land Economics*.

Stevens, T.H. and P.G. Allen. December 1980. "Estimating the Benefits of Recreation Under Conditions of Congestion: A Comment." *Journal of Environmental Economics and Management*.

Stevens, T.H., Wawa Ngenge and G. McDowell. Fall 1980. "Indirect Employment and Income Distribution Impacts of Investment Programs." *Journal of Northeast Agricultural Economics Council*.

Stevens, T.H. and P.G. Allen. Spring 1980. "Outdoor Recreation, Hedonic Prices, and the Demand for Solitude." *Journal of Northeast Agricultural Economics Council*.

Stevens, T.H., et al. Fall 1979. "The Economic Feasibility of Solar Home Heating Systems in New England." *Journal of Northeast Agricultural Economics Council*.

Landsford, Robert, T.H. Stevens, et al. December 1979. "The Economic Feasibility of Dual Purpose Nuclear Desalination of Ground Water." *Water Resources Bulletin*. 15(6).

Allen, P.G. and T.H. Stevens. April 1979. "The Economics of Outdoor Recreation Congestion: A Case Study of Camping." *Journal of Northeastern Agricultural Economics Council*. 8(1).

Stevens, T.H., Larry Williams and M. Blake. July 1979. "The Demand for Coal: The Problem of Aggregation." *Western Journal of Agricultural Economics*. 4(1).

Stevens, T. Spring 1977. "The Economics of Solar Home Heating System for the Southwest Region." *Journal of Energy and Development*.

Creek, J. and T. Stevens. September 1976. "Electricity Demand Projections for New Mexico." *New Mexico Business*.

Stevens, T. and R. Kalter. November 1975. "Economics of Oil Shale Development Policy." *Land Economics*.

Kalter, R., T. Stevens and O.A. Bloom. May 1975. "The Economics of Outer Continental Shelf Leasing." *American Journal of Agricultural Economics*. 57(2).

Stevens, T. April 1975. "Economic Implications of Coal Development Policy Alternatives." *New Mexico Business*. 28(4).

Stevens, T. and R. Kalter. February 1975. "Forecasting Industrial Water Utilization in the Petroleum Refining Sector: An Overview." *Water Resources Bulletin*.

Kalter, R. and T. Stevens. February 1974. "Resource Investments, Impact Distribution, and Evaluation Concepts: A Reply." *American Journal of Agricultural Economics*. 56(1).

Kalter, R. and T. Stevens. February 1972. "Changed Distribution of Income vs. Redistribution in

Public Project Evaluation: A Reply." *American Journal of Agricultural Economics*. 54(1).

Kalter, R. and T. Stevens. May 1971. "Resource Investments, Impact, Distribution, and Evaluation Concepts." *American Journal of Agricultural Economics*. 53(2).

Proceedings and Abstracts:

R. Glass, T.A. More and T.H. Stevens. March 1990. "Public Attitudes, Politics, and Extra Market Values for Reintroduced Wildlife: Examples From New England." In Proceedings, 55th North American Wildlife and Natural Resources Conference.

Dennis, D., T. H. Stevens, D. Kittredge, M. Rickenbach. 1997. "Nonindustrial Private Forests: Perspectives on Ecosystem Management." Proceedings of *Canadian and Northeast Forest Economics*.

Barrett, C., T. H. Stevens and C. Willis. 1996. "Comparison of CV and Conjoint Analysis." Benefits and Costs Transfer in Natural Resources Planning. Department of Economics, Iowa State University, Ames, IA. pp. 79-104.

Stevens, T. H., Martha K. Field, Thomas A. More and R. Glass. 1994. "Contingent Valuation of Rare and Endangered Species: An Assessment." *Benefits and Costs Transfer in Natural Resource Planning*. Lexington, KY: University of Kentucky, pp. 471-487.

T. H. Stevens, Ali Hovaizi and Gail Adams. 1990. "The Pattern of Structural Change in Residential Electricity Demand: Post-Embargo Experience in New England." In International Association of Energy Economics. Energy Supply/Demand Balances: Options and Costs. Proceedings of the 12th Annual North American Conference. IAEE, Washington, D.C.

T.H. Stevens and G. Adams. May 1987. "Asymmetries in Residential Electricity Demand." In Proceedings of 8th Annual Conference of the International Association of Energy Economists. Cambridge, MA. MIT.

T.H. Stevens, T. More and P.G. Allen. June 1983. "Economic Valuation of Urban Open Space Resources." Proceedings of Society of American Foresters Annual Meeting. Cincinnati, Ohio.

T. H. Stevens and Geoff Allen. 1979. "The Economics of Campground Congestion: An Overview." In Proceedings of the National Campground Conference. 1978. So. Illinois University.

T.H. Stevens. December 1978. "The Economics of Natural Gas Policy Alternatives: A Case Study." Abstract in *American Journal of Agricultural Economics*.

T.H. Stevens. December 1976. "The Economics of Solar Home Heating." Abstract in *American Journal of Agricultural Economics*.

R.J. Kalter and T.H. Stevens. January 1975. "The Economics of Energy Resource Allocation Policy." In Proceedings of 67th Annual Meeting, American Institute of Chemical Engineers.

T.H. Stevens and R.J. Kalter. 1975. "Economic Aspects of Oil Shale Resource Allocation Policy." In Economics of Natural Resource Development in the West. Report No. 5, Western Agricultural Economics Research Council.

R.J. Kalter, T.H. Stevens and O.A. Bloom. December 1974. "The Economics of Accelerated Outer Continental Shelf Leasing." Abstract in *American Journal of Agricultural Economics*.

Papers Presented:

Stevens, Thomas H. "Improving Stated Preference Valuation." Panelist at NSF/EPA Workshop. Washington, D.C. October 28 and 29, 1998.

Halstead, John M., Wendy Harper, Thomas H. Stevens, and L. Bruce Hill. "Experiment in Perception: Can CVM Respondents Really Discern the Changes in Environmental Quality We Ask Them to Value?" Ithaca, NY: Northeast Agricultural and Resource Economics Association Annual Meetings, 1998.

Stevens, T. H., R. Belkner, D. Kittredge, D. Dennis, and C. Willis. "Willingness to Participate in Ecosystem Management of NIPF Lands in the Northeast." 11th Interim Report, W-133 Benefits and Costs of Resource Policies Affecting Public and Private Land. Knoxville: Dept. of Agr. Economics, Univ. of Tennessee, 1998. 313-349.

J. Halstead and T. H. Stevens. "An Experiment in Debriefing CV Respondents." AREA Annual Meetings. Sturbridge, Ma. June, 1997.

Ronald J. Glass, Thomas H. Stevens, Thomas A. More. "Integrating Conflicting Values Into Natural Resource Decisionmaking." Malama AINA 95 World Association of Soil and Water Conservation. Hawaii. Summer 1995.

Thomas A. More, John R. Averill and Thomas H. Stevens. "Conservation Reconsidered Once Again: The Problem of Value." Presented at NAREA Annual Meeting, Burlington, VT, June 1995.

Tom More, J. Averill and T. H. Stevens. "Psychological Foundations of Nonmarket Resource Values." Forestry and the Environment II. Canadian Forest Service. Banff, October 1994.

T. H. Stevens, R. Glass and T. More. "Contingent Valuation: A Case Study of Atlantic Salmon Restoration in New England." Paper presented at Annual Meeting of American Fisheries Society. Halifax. August 22, 1994.

T. H. Stevens. "Economic Valuation of Rare and Endangered Species." Seminar presented at University of Vermont, 4/22/94.

T. H. Stevens. "Interpretation of Contingent Values for Wildlife Existence." Paper presented at W-133 Meetings, South Lake Tahoe, February 26-28, 1992.

Monographs, Experiment Station Bulletin and Research Reports:

T.H. Stevens, J. Echeverria and C.E. Willis. 1990. "The Existence Value of Bald Eagles, Coyotes and Wild Turkeys in New England." Massachusetts Agr. Exp. Sta. Research Bulletin 728, 37 pp.

Tim Hager, T.H. Stevens and C.E. Willis. 1989. "Economic Benefits of Salmon Restoration in New England." Massachusetts Agr. Exp. Sta. Research Bulletin 726. 34 pp.

T.H. Stevens, P.G. Allen and T. More, August 1986. "Benefits, Costs, Revenues and Pricing of Public Forest Day-Use Recreation Areas." Massachusetts Agr. Exp. Sta. Bull. No. 708. 29 pp.

P.G. Allen, T.H. Stevens, G. Yocher and T. More. August 1986. "The Benefits and Costs of Urban Forest Parks." Massachusetts Agr. Exp. Sta. Bull. No. 709. 45 pp.

T.H. Stevens and Gail Adams. June, 1986. "Elasticities of Residential Electricity Demand For Use in the NEPOOL Load Forecasting Model, Final Report." NEPOOL Grant 667, 50 pp.

T.H. Stevens and Gail Adams. December, 1985. "Interpreting Demand Elasticities: Has the Demand For Residential Electricity Changed?" Dept. of Agr. and Resource Ec. Research Paper Series 85-2. 17 pp.

T.H. Stevens, P.G. Allen, G. Yocher and T. More. December 1985. "The Benefits and Costs of Urban Forest Parks and Park Attributes. Final Report." U.S. Forest Service Consortium Grant 23-655. 60 pp.

T. More, T.H. Stevens and P.G. Allen. January 1986. "Benefits, Costs, Revenues and Pricing of Public Forest Day-Use Recreation Areas. Final Report." U.S. Forest Service Cooperative Agreement 23-745, 46 pp.

T.H. Stevens and E. Kesisoglou. December 1984. "The Effect of Price on the Demand for Water in Massachusetts: A Case Study." University of Massachusetts Agricultural Experiment Station Bulletin 698.

G. Adams, T.H. Stevens and C. Willis. April 1985. "Modeling the Residential Demand For Electricity: The Effect of Aggregation." University of Massachusetts Agricultural Experiment Station Bulletin 701.

T.H. Stevens and P.G. Allen. March 1983. "Use of Hedonic Price Technique to Evaluate Wetlands." University of Massachusetts Water Resources Research Center Report 136.

T.H. Stevens, A. Ross, and P.G. Allen. November 1982. "Alternative Procedures For Measurement of Benefits of Non-Unique Outdoor Recreation Areas." University of Massachusetts Experiment Station Bulletin 680.

J. Halstead, T.H. Stevens and J. Foster. January 1982. "Measuring the Non-Market Value of Agricultural Land: A Case Study." Agr. Exp. Station Bulletin 672.

T.H. Stevens and M. Black. Fall 1982. "Attitudes About Energy Use and Policy in Massachusetts." Cooperative Extension Service L-267.

T.H. Stevens. August 1982. "Evaluation of Economic Factors Affecting Wetland Trends," in Regional Assessment of Wetlands Regulation Programs in New England, Water Resources Research Center Final Report.

A. Ross, T.H. Stevens and P.G. Allen. March 1981. "Measurement of Recreation Benefits for Urban-Oriented Camping." University of Massachusetts Agriculture Experiment Bulletin 667.

R. W. Hardy and T.H. Stevens, editors. March 1980. "A Methodology for Assessing the Regional Interrelationships of Water Resources, Energy Supply and Economic Development." The New England Council of Water Center Directors.

T.H. Stevens and C. Eastman. May 1978. "Attitudes Toward Energy Use and Policy." Las Cruces, New Mexico State University Agricultural Experiment Station Research Report 367.

T.H. Stevens. March 1978. "An Economic Analysis of Natural Gas Policy Alternatives for New Mexico." Las Cruces, New Mexico State University Agricultural Experiment Station Research Report 357.

T.H. Stevens and M. Kent. September 1977. "Economic-Environmental Interactions in Northwestern New Mexico." Agricultural Experiment Station, New Mexico State University, Research Report 347.

A. Prato, T.H. Stevens, et al.. July 1977. "Primary Benefit-Cost Analysis of the Intrastate Natural Gas Pipeline System in New Mexico." Los Alamos Scientific Laboratories, LA-6876-MS.

T.H. Stevens and M. Gore. June 1977. "An Interindustry Economic Analysis of Northwestern New Mexico." Agricultural Experiment Station, New Mexico State University, Research Report 342.

T.H. Stevens and T.W. Hazelton. 1976. "Sulfur Dioxide Pollution and Crop Damage in the Four Corners Region: A Simulation Analysis." Agricultural Experiment Station, New Mexico State University, Bulletin 647.

T.H. Stevens and S. Hicks. 1976. "Costs of Solar and Gas Home Heating Systems." Agricultural Experiment Station, New Mexico State University, Bulletin 643.

T.H. Stevens and J. Creek. January 1976. "Alternative Projections of the Demand for Electricity in the Southwest." Agricultural Experiment Station, New Mexico State University, Research Report 310.

T.H. Stevens and B. Ives. January 1976. "Distribution and Concentration of Air Pollution From the Four Corners Power Plant at Fruitland." Agricultural Experiment Station, New Mexico State University, Research Report 309.

R. Kalter, T.H. Stevens and W. Tyner. November 1974. "Atlantic Outer Continental Shelf Energy Resources: An Economic Analysis." Department of Agricultural Economics, Cornell University, Ithaca, New York, A.E. Research 74-17.

T.H. Stevens and R. Kalter. 1972. "Evaluation of Public Investments: Distributional Impacts," Search, Cornell University, Ithaca, New York, Vol. 2, No. 12.

T.H. Stevens. March 1972. "Equity and Water Resource Development." Water Resources and Marine Sciences Center, Cornell University, Ithaca, New York, Report No. 39.

T.H. Stevens and R. Kalter. May 1970. "Technological Externalities, Outdoor Recreation, and the Regional Economic Impact of Cayuga Lake." Department of Agricultural Economics, Cornell University, Ithaca, New York, A.E. Research 317.

R. Kalter, T.H. Stevens, et al. February 1970. "Federal Evaluation of Resource Investments: A Case Study." Water Resources and Marine Sciences Center, Cornell University, Ithaca, New York, Technical Report No. 24.

T.H. Stevens and G. Cole. July 1967. "Economics of Water Use and Waste Disposal in Delaware Vegetable Processing." Agricultural Experiment Station, University of Delaware, Newark, Delaware, Bulletin 380.

Grants:

"Assessment of Acceptable Tradeoffs in Attaining Ecosystem Management" by Tom Stevens and D. Kittredge. \$20,000 funded by USDA Forest Service.

"Ecosystem Management in a Landscape Dominated by Small Private Ownerships" by Tom Stevens, Dave Kittredge and Don Dennis. \$160,000 funded by USDA National Research Initiative Competitive Grants Program.

Godfrey, Paul, Thomas H. Stevens and Cleve Willis. "Comparison of Contingent Valuation and Conjoint Analysis for Measuring Total Economic Value of Water Resources." USGS. 2 years. Award \$30,630.

Stevens, Thomas H. NSF/EPA. 2 years. Award: \$53,870 (UMass portion).

Stevens, Thomas H. and David Kittredge. USDA Forest Service. 2 years. Award: \$15,000.

Stevens, Thomas H. USDA Forest Service. 1 year. Award: \$5,000.

"Assessment of Role of Economic Analysis in Fish and Wildlife Management Decisions." U.S. Forest Service Cooperative Agreement (Thomas H. Stevens and Barry C. Field). \$2,000.

"Use of Conjoint Analysis in Ecosystem Management". USDA Forest Service Cooperative Agreement. (Thomas H. Stevens and D. Kittredge). \$5,000.

USDA Forest Service Cooperative Agreement, Contingent Valuation and Ethical Values: An Assessment. (Thomas H. Stevens), \$12,000.

U.S. Fish and Wildlife Service Agreement. Economic Impact Analysis of Proposed Conti Wildlife Refuge, (T. H. Stevens and D. Storey), \$90,000.

Cooperative Agreement with the U.S. Department of Agriculture, Forest Service, titled "Economic Impact Analysis of Proposed Conti National Wildlife Refuge." The Federal share of costs on the agreement is \$90,000. The work will be a contribution to the environmental impact review being conducted by the U.S. Department of Interior Fish and Wildlife Service. (Thomas Stevens, Barry Field and Gail Adams), \$90,000.

Development of Water Supply Decision-Making Model, Water Resource Research Center, 1987 - Present, \$45,000 with J. Male and C. Willis.

Development of Econometric Models of Residential Electricity Demand; New England Power Planning Pool, 1984-1985, \$20,000 with G. Adams.

Benefits, Costs and Revenues of Public Forest Recreation Areas, Northeast Forest Experiment Station, 1983-1984. \$8,000.

Benefits and Costs of Urban Forest Parks and Park Attributes, Northeast Forest Exp. Station, \$15,875 with P.G. Allen.

Regional Assessment of Wetlands Regulation programs in New England, Office of Technology Assessment, with Water Resources Research Center.

"Factors Affecting the External Economic Impact of City Parkland," U.S.D.A. Forest Service Grant, Fall 1980, \$7,525 with P.G. Allen.

"Use of the Hedonic Price Technique to Evaluate Wetlands," Title 1, Office of Water Resources Research, Fall 1980, \$15,200 with P.G. Allen.

"Bias in the Measurement of Recreation Benefits for Urban Oriented Camping Facilities," Consortium For Environmental Forestry Studies, 1978-1979, \$13,560 with P.G. Allen.

University of Massachusetts Faculty Grant, 1979, \$2,500 with B. Field.

"Regional Interrelationships of Water Resources, Energy Supply and Economic Development," Office of Water Resources Research and New England Council of Water Center Directors, 1978-1980, \$10,000.