

CURRICULUM VITAE

Barry C. Field

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Education

Harvard University, Post-Graduate Courses, 1972-1973
University of California, Berkeley, Ph.D., Agricultural Economics, 1967
Cornell University, M.S., Agricultural Economics, 1959
Cornell University, B.S., General Agriculture, 1956

Faculty Appointments

2008-present Emeritus Professor, Department of Resource Economics, University of Massachusetts Amherst

1987-2008 Professor of Resource Economics, Department of Resource Economics, University of Massachusetts (Department Chairman, 1993-1996)

1979-1987 Associate Professor of Resource Economics, Department of Resource Economics, University of Massachusetts

1977-1982 Associate Professor of Economics, Department of Economics, University of Miami (on leave 1980-1982)

1973-1979 Assistant Professor of Resource Economics, University of Massachusetts

1966-1971 Assistant Professor of Economics, Department of Economics, and staff member, Natural Resources Policy Center, The George Washington University

Teaching Experience

Undergraduate Courses Taught

Advanced Issues in Environmental and Resource Economics
*Internet Economics
Introduction to Economic Principles — Micro and Macro
Intermediate Economic Theory — Micro and Macro
*Natural Resource Economics
*Environmental Economics
Environmental Policy
*Benefit-Cost and Analysis in Natural Resource Programs
Introductory and Intermediate Statistics
History of American Agriculture

Graduate Courses Taught

*Economics of Institutional Change
Microeconomic Theory
*Natural Resource Economics
Environmental Economics
*Natural Resource Policy and the Administrative Process
*Seminar in Research Methods

(*Courses designed and first offered.)

Publications

Journal Articles

- "Inspections to Avert Terrorism: Robustness Under Severe Uncertainty," Journal of Homeland Security and Emergency Management, Vol. 2, No.3, Article 3, 2005.
<http://www.bepress.com/jhsem/vol2/iss3/3>, (with L. Joe Moffitt and John K. Stranlund).
- "Natural Resources and Economic Growth," Land Economics, Vol. 81, No.4, November 2005, pp. 496-502, (with Ning Ding).
- "External Costs from Increased Island Visitation: Results from the Southern Thai Islands," Tourism Economics, Vol. 10, June 2004, pp. 220-240, (with Colin Cushman, Tom Stevens and Dan Lass).
- "Enforcing Emissions Trading Programs: Theory, Practice and Performance," Policy Studies Journal, Vol. 30, Issue 3, 2002, pp. 343-361, (with John Stranlund and Carlos Chavez).
- "The Evolution of Property Rights," Kyklos, Vol. 42, Fasc. 3, 1989, pp. 319-345.
- "The Economics of Common Property: A Review of Two Recent Books," Natural Resources Journal, Vol. 30, Winter 1990, pp. 239-252.
- "Regional Energy Substitution: Results from a Dynamic Input Demand Model," Southern Economic Journal, Vol. 53, No.4, April 1987, pp. 952-966, (with A. Vlachou).
- "The Evolution of Individual Property Rights in Massachusetts Agriculture, 17th-19th Centuries," Northeastern Journal of Agricultural and Resource Economics, Vol. 14, No.2, October 1985, pp. 97-109.
- "The Optimal Commons," American Journal of Agricultural Economics, Vol. 67, No.2, May 1985, pp. 364-367.
- "Energy Substitution in U.S. Manufacturing: A Regional Approach," Southern Economic Journal, Vol. 50, No.2, October 1983, pp. 385-395, (with C. Harper).
- "A General Measure for Output-Variable Input Demand Elasticities," American Journal of Agricultural Economics, Vol. 63, No.3, August 1981, pp. 575-577, (with P. G. Allen).
- "Land Structures Substitution and the Urban Density Gradient," Land Economics, Vol. 56, No. 4, November 1980, pp. 447-450.
- "Capital-Energy Substitution in U.S. Manufacturing," Review of Economics and Statistics, Vol. 62, No.2, May 1980, pp. 207-212, (with C. Grebenstein).
- "Substituting for Water Inputs in U.S. Manufacturing," Water Resources Research, Vol. 15, No.2, April 1979, pp. 228-232, (with C. Grebenstein).

"Accounting for the Social Benefits and Costs of Development Rights Purchase Programs," Journal of the Northeastern Agricultural Economics Council, Vol. VI, No. 1, April 1977, pp. 41-50.

"Transferable Development Rights: A Conceptual Analysis," Land Economics, Vol. 51, No. 4, November 1975, (with Jon Conrad).

"Economics of Compensation in Development Rights Programs," Journal of the Northeastern Agricultural Economics Council, Vol. 4, No. 2, October 1975, pp. 185-194, (with Jon Conrad).

"Rural Community Development: A Community State Approach," Journal of the Northeastern Agricultural Economics Council, Vol. V, No. 1, April 1976, pp. 1-16, (with Jon Conrad).

"Congressional Bargaining in Agriculture: Cotton," American Journal of Agricultural Economics, Vol. 50, No. 1, February 1968, pp. 1-12.

Books and Chapters

Environmental Policy: An Introduction, Waveland Press, 2006.

"Robust Inspection for Invasive Species with a Limited Budget," in The Economics of Plant Health, Alfons Oude Lansink, editor, Springer, 2005, (with L. Joe Moffitt, John K. Stranlund, and C. D. Osteen).

Natural Resource Economics: An Introduction, McGraw-Hill-Irwin, May 2000, Waveland Press, 2005.

Environmental Economics. An Introduction, McGraw-Hill

1st edition, 1994

1st Canadian edition, 1995 (with N.D. Olewiler)

Spanish translation, 1998

2nd U.S. edition, 1997

3rd edition, 2001

Japanese translation, 2002

4th edition, 2005

Chinese translation, 2005

Modeling and Measuring Natural Resource Substitution, editor and contributing author (with Ernst Berndt), MIT Press, 1981.

"The Adequacy of Measures for Signaling the Scarcity of Natural Resources," in Scarcity and Growth Reconsidered, edited by V. Kerry Smith, Johns Hopkins Press for Resources for the Future, 1979, (with Gardner Brown).

Environmental Economics, Gale Publishing Company, 1979, (with Cleve Willis).

Other Reports

The Economic Impact of the University of Massachusetts-Amherst on the Economies of the Pioneer Valley and the Commonwealth of Massachusetts, University of Massachusetts-Amherst, Office of Economic Development, 1996.

Hanscom Air Force Base, Economic Impact Study, University of Massachusetts, President's Office, 1995.

Economic Impacts of Logan International Airport on the Communities of East Boston and Winthrop, Massachusetts, University of Massachusetts, Department of Resource Economics, 1995.

Agricultural Land Institutions in Colonial New England, Department of Agricultural and Resource Economics, University of Massachusetts, 1984, 69 pp., (with M. Kimball).

Dimensions of Rurality in New England: A Comparative Analysis of Rurality Indexes for the Sixty-Seven New England Counties, Research Bulletin No. 642, Massachusetts Agricultural Experiment Station, January 1977, 29 pp., (with Fred Babin).

Economic Analysis and Rural Community Development, University of Massachusetts, Joint Experiment Station-Extension Publication, Fall 1975, (with Jon Conrad).

Sampling Procedures for Statistical Hypothesis Testing with Examples from Rural and Community Development Problems, Massachusetts Agricultural Experiment Station Publication, 1974, (with J. Conrad and C. Willis).

Environmental Values Associated with the Production of Peaking Power in New England, Boston, New England River Basins Commission, 1973.

An Economic Evaluation of the Logan Dam and Reservoir Proposal of the U.S. Army Corps of Engineers, Washington, D.C., 1970, 119 pp.

Report to the United States Agency for International Development, Economic Evaluation — Agricultural Projects, Washington, D.C., 1969, 69 pp.

Report to the United States Department of Housing and Urban Development, Benefit-Cost Techniques for Public Water and Sewer Projects, Washington, D.C., 1969, 79 pp.

Grants and Fellowships

USDA, 2004-2005: Robust Inspection for Invasive Species with a Limited Budget (co-PI).

Smith-Richardson Foundation, 1999-2000: Economic Issues in the Enforcement of Market-Based Approaches to Environmental Policy (with John Stranlund).

National Science Foundation Grant, 1985-1988: The Evolution of Property-Rights Institutions: An Analysis of New England Agriculture in the 17th-19th Centuries.

National Science Foundation Grant, 1981-1983: Responses to Energy Price Changes, A Regional Analysis.

National Science Foundation Grant, December 1979: International Conference on Substitution Relationships in Production Functions Containing Natural Resources.

National Science Foundation Grant, 1977-1979: Possibilities for Natural Resource Substitution in the U.S. Economy.

NATO Senior Fellowship in Science, 1975: Travel Grant for the Study of English Programs in Land Use and Community Environments.

National Science Foundation Grant, 1975-1976: Economics of Exhaustible Resources.