

Resume of: **A. MYRICK FREEMAN III**

Present Position Research Professor of Economics
Bowdoin College

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Birthdate: February 6, 1936

Education: A.B., Economics, Cornell University, 1957
M.A., Economics, University of Washington, 1964
Ph.D., Economics, University of Washington, 1965

Awards *Publication of Enduring Quality Award* presented by the Association of Environmental and Resource Economists, January, 2003, for The Benefits of Environmental Improvement: Theory and Practice, Baltimore: Johns Hopkins University Press, 1979 and The Measurement of Environmental and Resource Values: Theory and Methods, Washington: Resources for the Future, 1993.

Fellowships: Resources for the Future, Inc., Doctoral Dissertation Fellowship, 1964-65

Ph.D. Thesis: The Federal Reclamation Program and the Distribution of Income. Submitted: December 1965; Chairman of Committee: Prof. James Crutchfield

Areas of Specialization: Economics of the Environment and Resources;
Benefit-Cost and Risk-Benefit Analysis; Public Policy Analysis

Teaching Interests: Environmental and Resource Economics;
Microeconomics; Risk Management

Military Service: Commissioned Officer, U.S. Navy, 1957-1963

Professional Experience:

2002-present Research Professor of Economics, Bowdoin College, and William D. Shipman Professor of Economics Emeritus, Bowdoin College

2000-2002 William D. Shipman Research Professor of Economics, Bowdoin College

1997, 1999-2000 Director of Environmental Studies Program, Bowdoin College

1993-2000 William D. Shipman Professor of Economics, Bowdoin College

1975-1993 Professor of Economics, Bowdoin College

1984-85 Director of Environmental Studies Program, Bowdoin College

1970-75 Associate Professor of Economics, Bowdoin College

- 1965-70 Assistant Professor of Economics, Bowdoin College
- 1963-64 Research Associate and Predoctoral Associate, Department of Economics, University of Washington, Seattle, Washington

Temporary and Visiting Positions:

- 1991-1995 Project Coordinator, New York State Environmental Externalities Cost Study
- 1988-1991 Senior Fellow, Resources for the Future
- 1988 Visiting Distinguished LaFollette Professor, the Robert M. LaFollette Institute of Public Affairs, University of Wisconsin, Madison
- 1982 College Visiting Professor, Department of Economics, University of Washington, Seattle, Washington
- 1976-78 Fellow, Resources for the Future, Inc., Washington, D.C.
- 1973 Visiting Associate Professor, University of Wisconsin, Madison, Wisconsin
- 1969-70 Visiting Scholar, Resources for the Future, Inc., Washington, D.C.

PUBLICATIONS

BOOKS:

International Trade: An Introduction to Method and Theory, New York, Harper & Row, 1971.

The Economics of Environmental Policy, with Robert H. Haveman and Allen V. Kneese, New York, John Wiley, 1973.

Pollution, Resources, and the Environment--A Book of Readings, with Alain C. Enthoven, New York: W. W. Norton and Co., 1973.

The Benefits of Environmental Improvement: Theory and Practice, Baltimore: Johns Hopkins University Press, 1979.

Air and Water Pollution Control: A Benefit-Cost Assessment, New York: John Wiley, 1982.

Intermediate Microeconomic Analysis, New York: Harper & Row, 1983.

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The Measurement of Environmental and Resource Values: Theory and Methods, Second Edition, Washington: Resources for the Future, 2003.

The Measurement of Environmental and Resource Values: Theory and Methods, First Edition, Chinese Translation, China Renmin University Press, Beijing, China.

SCHOLARLY ARTICLES:

"Adjusted Benefit-Cost Ratios for Six Reclamation Projects," Journal of Farm Economics, November, 1966.

"Bribes and Charges: Some Comments," Water Resources Research, 1967.

"Income Distribution and Planning for Public Investment," American Economic Review, June, 1967.

"Six Federal Reclamation Projects and the Distribution of Income," Water Resources Research, 1967

"Advocacy and Resource Allocation Decisions in the Public Sector," Natural Resources Journal, April, 1969.

"Income Distribution and Social Choice: A Pragmatic Approach," Public Choice, Fall, 1969.

"Benefit-Cost Analysis and Multiple Objectives: Current Issues in Water Resource Planning," with Robert Haveman, Water Resources Research, December, 1970.

"Water Pollution Control, River Basin Authorities and Economic Incentives: Some Current Policy Issues," with Robert H. Haveman, Public Policy, Winter, 1971.

"Option Demand and Consumer Surplus: Further Comment," with Charles J. Cicchetti, Quarterly Journal of Economics, August, 1971.

On the Economics of Mass Demonstrations: A Case Study of the November March on Washington," with Charles J. Cicchetti, Robert H. Haveman, and Jack L. Knetsch, American Economic Review, September, 1971.

"Air Pollution and Property Values: A Methodological Comment," Review of Economics and Statistics, November, 1971.

"Residuals Charges for Pollution Control: A Policy Evaluation," with Robert H. Haveman, Science, July 18, 1972.

"Clean Rhetoric and Dirty Water," with Robert H. Haveman, The Public Interest, Summer, 1972.

"Spatial Equilibrium, the Theory of Rents, and the Measurement of Benefits from Public Programs: A Comment," Quarterly Journal of Economics (August, 1975).

"On Estimating Air Pollution Control Benefits from Land Value Studies," Journal of Environmental Economics and Management, 1974.

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"Congestion, Quality Deterioration, and Heterogeneous Tastes," with Robert H. Haveman, Journal of Public Economics, 1977.

"A Short Argument in Favor of Discounting Intergenerational Effects," Futures, October, 1977.

- "Mixed Goods and Option Demand: A Comment," Public Finance, 1977.
- "Hedonic Prices, Property Values, and Measuring Environmental Benefits: A Survey of the Issues," Scandinavian Journal of Economics, 1979; reprinted in Yoshitsugu Hayashi, Kenneth Button and Peter Nijkamp: eds.; Environmental Analysis and Economic Policy: The Environment and Transportation, Edward Elgar, Cheltenham, UK, 1999.
- "The Economic Value of Shoreline: A Comment," Review of Economics and Statistics, November, 1979.
- "Land Prices Substantially Underestimate the Value of Environmental Quality: A Comment," Review of Economics and Statistics, February, 1980.
- "Approaches to Measuring Public Goods, Demands," American Journal of Agricultural Economics, Proceedings, December, 1979.
- "Technology Based Effluent Standards: The U.S. Case," Water Resources Research, February, 1980.
- "On the Sign and Size of Option Value," Land Economics, February, 1984.
- "Depletable Externalities and Pigouvian Taxation," Journal of Environmental Economics and Management, June, 1984. Reprinted in David Campbell and Robert Lee, eds., The International Library of Essays in Environmental Law, Ashgate, 2005.
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- "The Sign and Size of Option Value: Reply," Land Economics, February, 1985.
- "Supply Uncertainty, Option Price, and Option Value," Land Economics, May, 1985.
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- "Ex Ante and Ex Post Values for Changes in Risk," Risk Analysis, September, 1989.
- "Measuring the Welfare Values of Productivity Changes," with Winston Harrington, Southern Economic Journal, April, 1990.
- "Factorial Survey Methods and Willingness to Pay for Housing Characteristics: A Comment," Journal of Environmental Economics and Management, January, 1991.
- "Indirect Methods for Valuing Changes in Environmental Risks with Non-Expected Utility Preferences," Journal of Risk and Uncertainty, April 1991.
- "Welfare Measurement and the Benefit-Cost Analysis of Projects Affecting Risks," Southern Economic Journal, July 1991.
- "Valuing Environmental Resources Under Alternative Management Regimes," Ecological Economics, 1991.
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"Observations on the Economics of Irreplaceable Assets," with John V. Krutilla, Charles J. Cicchetti, and Clifford S. Russell, in Allen V. Kneese and Blair T. Bower, eds., Environmental Quality Analysis: Theory and Method in the Social Sciences, 1972.

"Economic Incentives and Environmental Quality," with Robert H. Haveman, Proceedings of the 64th Annual Conference of the National Tax Association, Columbus, Ohio, 1972.

"Economic Incentives and Water Pollution Control," The Costs of Pollution Control: A National Symposium, North Carolina State University, 1972.

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- "On the Incidence of Automotive Air Pollution Control Costs," Benefit Cost and Policy Analysis--1974, edited by Richard Zeckhauser, et al., Aldine Press, 1975.
- "The Hedonic Price Approach to Measuring the Demand for Neighborhood Characteristics," in David Segal, ed., The Economics of Neighborhood, Academic Press, 1979.
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- "Estimating the Benefits of Environmental Regulations," in Judith Bentcover, Vincent Covello, and Jeryl Mumpower, eds., Benefits Assessment: The State of the Art, D. Reidel, 1986.
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- "Commentary" in Daniel W. Bromley, ed., Natural Resource Economics: Policy Problems and Contemporary Analysis, Kluwer-Nijhoff Publishing, 1986.
- "Uncertainty and Environmental Policy: The Role of Option and Quasi Option Value," in V. Kerry Smith, ed., Advances in Applied Microeconomics, Vol. 4, JAI Press, 1986.
- "The Ethical Basis of the Economic View of the Environment," presented at the Morris Colloquium on Ethics and Economics in the Environment, Department of Philosophy, University of Colorado, Boulder, Colorado, April 1982; reprinted in Donald Van DeVeer and Christine Pierce, eds., People, Penguins and Plastic Trees: Basic Issues in Environmental Ethics, Wadsworth; 1986; in Donald Van DeVeer and Christine Pierce, eds., The Environmental Ethics and Policy book: Philosophy, Ecology, and Economics, Wadsworth, 1993; and in Joseph Desjardins, eds., Environmental Ethics: Concepts, Policy, Theory, Mayfield, 1999.
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- "Non-use Values in Natural Resource Damage Assessment," in Raymond J. Kopp and V. Kerry Smith, eds., Valuing Natural Assets: The Economics of Natural Resource Damage Assessments, Resources for the Future, 1993.
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"Economics, Incentives, and Environmental Regulation," in Norman Vig and Michael E. Kraft, eds., Environmental Policy in the 1990s, 3rd Ed., CQ Press, 1997.

"Externalities, Prices, and Taxes: Second Best Issues in Transportation," in David L. Greene and Donald W. Jones, eds., Measuring the Full Social Costs and Benefits of Transportation, 1997.

"On Valuing the Services and Functions of Ecosystems" in R. David Simpson and Norman Christensen, eds., Ecosystem Function and Human Activities: Reconciling Economics and Ecology, 1997.

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"Economics, Incentives, and Environmental Regulation," in Norman Vig and Michael E. Kraft, eds., Environmental Policy: New Directions for the 21st Century, 4th Ed., CQ Press, 2000.

"Water Pollution Policy," in Paul R. Portney and Robert Stavins, eds., Public Policies for Environmental Protection, 2nd ed., Resources for the Future, 2000.

"Economics, Incentives, and Environmental Regulation," in Norman Vig and Michael E. Kraft, eds., Environmental Policy: New Directions for the 21st Century, 5th Ed., CQ Press, 2003

"Economic Valuation: What and Why," in Kevin Boyle and Patricia Champ, eds., A Primer on Nonmarket Valuation, Kluwer Academic Publishers, 2003.

"Welfare Theory and Valuation," with Nancy E. Bockstael in Karl-Goran Maler and Jeffrey Vincent, eds., Handbook of Environmental Economics, Vol. II, Valuing Environmental Changes, Elsevier, 2005.

"Economics, Incentives, and Environmental Regulation," in Norman Vig and Michael E. Kraft, eds., Environmental Policy: New Directions for the 21st Century, 6th Ed., CQ Press, 2006.

"Counting the Wealth of Nature: An Overview of Ecosystem Valuation," with Timothy Fitzgerald, in Terry Anderson, editor, Accounting for Mother Nature, Stanford University Press, forthcoming.

RESEARCH REPORTS:

Evaluation of Adjustment Assistance Programs with Applications for Pollution Control, Environmental Protection Agency, EPA- 600/5-74-029, 1974.

Regulating Chemicals: A Framework for Decision Making, a report prepared for the Organization for Economic Cooperation and Development, May, 1978.

The Benefits of Air and Water Pollution Control: A Review and Synthesis of Recent Estimates, a report prepared for the Council on Environmental Quality, December, 1979.

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The Economics of Valuing Marine Recreation: A Review of the Empirical Evidence, Report to the Office of Policy Planning and Evaluation, U.S. Environmental Protection Agency, 1993.

"Introduction to the Consideration of Externalities in Electricity Resource Selection," with Robert D. Rowe and Mark Thayer, in New York Environmental Externalities Cost Study Report 1: Externalities Screening and Recommendations, December 1993.

"Economic Issues in the Application of Externalities to Electricity Resource Selection," with Robert D. Rowe and Mark Thayer in Victor Niemeyer, ed. Technical Review of Externalities Issues, Electric Power Research Institute, 1994.

"The Economic Benefits of Removing Edwards Dam," prepared for the Kennebec Coalition, May 1995.

"Review and Critique of FERC's Benefit-Cost Analysis for the Edwards Dam Project," prepared for the Kennebec Coalition, March 1996.

"An Analysis of the Pataki Power Plant Proposal vs. Full Environmental Comparability Using the New York Externalities Cost Model," prepared for the Clean Air Task Force, 2001.

BOOK REVIEWS:

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J. Clarence Davies III, The Politics of Pollution, Pegasus, 1970, and John C. Esposito, Vanishing Air: The Ralph Nader Study Group Report on Air Pollution, Grossman, 1970. Reviewed in Natural Resources Journal, April, 1971.

M. W. Jones-Lee, The Value of Life: An Economic Analysis, University of Chicago Press, 1977. Reviewed in Intellect, October 1977.

Thomas M. Power, The Economic Value of the Quality of Life, Westview Press, 1980. Reviewed in Natural Resources Journal, January, 1981.

V. Kerry Smith and William H. Desvousges, Measuring Water Quality Benefits, Kluwer-Nijhoff, 1986. Reviewed in Journal of Economic Literature, March, 1989.

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PUBLISHED DISCUSSANT'S COMMENTARY:

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- American Economic Association/American Agricultural Economic Association, joint session: "Energy Supply and Demand in the U.S.," December 29, 1973, published in American Journal of Agricultural Economics, May, 1974.
- Massachusetts Institute of Technology, Conference on Air Pollution and Administrative Control, December 2-3, 1976, published in Anne K. Friedlaender, ed., Approaches to Controlling Air Pollution, MIT Press, 1978.
- Resources for the Future, Forum on Applied Public Choice, January 16-17, 1978, published in Clifford S. Russell, ed., Collective Decision Making: Applications from Public Choice Theory, Baltimore: The Johns Hopkins Press, 1979.
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- "Evaluating REQM Strategies: Analyzing Benefits," prepared for Resources for the Future and the U.S. Environmental Protection Agency, 1978.
- "The Implementation of Environmental Policy: Toward an Economic Analysis," presented at the Policy Implementation Workshop, Pomona College, November, 1978.
- "The Discount Rate in Relative Price Shift Analysis," presented at the Symposium on Relative Price Shift Analysis in Economic Analysis as Applied to Public Power Projects, sponsored by the Maine Office of Energy Resources, Maine State Planning Office, and U.S. Army Corps of Engineers, in Portland, Me., November, 1979.
- "Models for Valuing Risk Changes" at the Symposium on Decision-Making and Environmental Risk: Economic and Political Issues, Robert M. LaFollette Institute of Public Affairs, University of Wisconsin, Madison, April, 1988.

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- "Economics and the Rational Management of Risk," with Paul R. Portney, Resources for the Future Discussion Paper CRM-89-5.
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"An Economic Perspective on Environmental Regulation," Maine Policy Review, June, 1992.

"Weighing Environmental Externalities: How to do it Right," with Dallas Burtraw, Winston Harrington and Alan J. Krupnick, The Electricity Journal, September, 1992.

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U.S. Senate, Committee on Interior and Insular Affairs, Trans-Alaskan Pipeline, May 3, 1973.

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Maine Department of Environmental Protection, Wells Harbor Dredging Applications, Prefiled Testimony, July 27, 1997.

PROFESSIONAL ACTIVITIES

Member, Panel of Consultants on the Social Report, U.S. Department of Health, Education, and Welfare, January 1968 - January 1969.

Consultant to New England Economic Research Foundation, May-June, 1968.

Member, Advisory Committee to the Water Resources Center, University of Maine, 1970-73.

Member, Advisory Committee to the Student Intern in Economic Development Program, New England Board of Higher Education, 1971-73.

Member, Board of Economic Advisors, Public Interest Economics Center, Washington, D.C., 1972-1984.

Consultant to Environmental Defense Fund, 1972-73.

Consultant, Department of Environment, Canadian Federal Government, 1973.

- Member, Committee on Principles of Decision Making for Regulating Chemicals in the Environment, National Academy of Sciences, 1974-75. Co-author of Panel Report, "Hazard-Cost-Benefit Comparisons."
- Member, Panel on Effects of Ambient Environmental Quality, Environmental Research Assessment Committee, National Academy of Sciences, 1975-76.
- Consultant, U.S. Environmental Protection Agency, 1975.
- Consultant, Organization for Economic Cooperation and Development, 1977, 1980-81.
- Member, Extramural Panel of Experts, Interagency Research Program on Incentives for Environmental Quality Management, for Council on Environmental Quality and Environmental Protection Agency, 1977.
- Member, Committee on Assessment of PCB's in the Environment, National Academy of Sciences, 1978-1979.
- Member, Panel on Economic Analysis, Science Advisory Board, U.S. Environmental Protection Agency, 1979-1980.
- Member, Economics Committee, Sierra Club, 1978-1994.
- Member, Advisory Panel on the Assessment of Technologies for Determining Cancer Risks from the Environment, Office of Technology Assessment, 1980-81.
- Member, Benefit Methodology Evaluation Panel, National Commission on Air Quality, 1979-1980.
- Member, Review Panel for Assessing the Economic Damages of the Amoco Cadiz Oil Spill, National Oceanic and Atmospheric Administration, 1980-82.
- Member, Board of Directors, Association of Environmental and Resource Economists, 1980-82.
- Member, Board of Toxicology and Environmental Health Hazards, National Academy of Sciences, 1980-1983.
- Member, Ad Hoc Committee on Research Needs in Estimating the Benefits from Protecting Environmental Quality, Environmental Protection Agency, 1980-1981.
- Member, Review Panel on Risk-Benefit Analysis, Food Safety Council, 1980.
- Participant, National Academy of Sciences, Board on Ocean Science and Policy, Workshop on Land, Sea, and Air Options for the Disposal of Industrial and Domestic Wastes, January, 1983.
- Member, Peer Review Panel for U.S. Environmental Protection Agency National Crop Loss Assessment Network, 1983-1985.
- Member, Advisory Panel on Ocean Waste Disposal Assessment, Office of Technology Assessment, 1984-1986.
- Member, Editorial Board, Land Economics, published by the University of Wisconsin, 1985-2000.
- Member, Editorial Council, Journal of Environmental Economics and Management, 1986-1988, 1992-1996.
- Member, Welfare Effects Research Panel, Science Advisory Board, U.S. Environmental Protection Agency, 1985.
- Member, Clean Air Scientific Advisory Committee, U.S. Environmental Protection Agency, 1985-1989.

Member, Advisory Council on Clean Air Compliance Analysis, Science Advisory Board, U.S. Environmental Protection Agency, 1992-2000.

Member, Environmental Economics Advisory Committee, Science Advisory Board, U.S. Environmental Protection Agency, 1992 to 1999; co-chair, 1993-94.

Member, Integrated Risk Project Valuation Subcommittee of the Science Advisory Board, U.S. Environmental Protection Agency, 1996-1997.

Member, Arsenic Rule Benefits Review Panel, Science Advisory Board, U. S. Environmental Protection Agency, 2001.

Chair, Review Panel to Examine Benefits, Costs and Impacts to the Underground Storage Tanks and Resource Conservation Recovery Act Subtitle C Programs, Science Advisory Board, U. S. Environmental Protection Agency, 2002.

Member, Science Advisory Board, U. S. Environmental Protection Agency, 2003 – 2006.

Member, Panel on Valuing the Protection Ecological Systems and Services, Science Advisory Board, U. S. Environmental Protection Agency, 2003 -

Member, Advisory Board, Clean Air Task Force, 2003 -

Member, Advisory Committee, Environmental Economics Program for South East Asia 2003 - 2005.

Chair, Illegal Competitive Advantage Economic Benefit Advisory Panel, Science Advisory Board, U. S. Environmental Protection Agency, 2004 - 2005.

Chair, Superfund Benefits Assessment Review Panel, Science Advisory Board, U. S. Environmental Protection Agency, 2004 - 2006

Member, National Research Council Committee on Ozone Mortality Risk Reduction Benefits, 2007 -