

Curriculum Vita

RAYMOND B. PALMQUIST

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EDUCATION

Ph.D. Economics, University of Washington, Seattle, Washington
M.S. Economics, University of Washington, Seattle, Washington
B.A. Mathematics, University of Colorado, Boulder, Colorado

EXPERIENCE

Professor, Department of Economics, North Carolina State University,
1991-present
Department Head, Department of Economics, North Carolina State
University, 1992-1997
Professor, Department of Agricultural and Resource Economics, North
Carolina State University, 1991-1992
Associate Professor, Department of Economics and Business, North
Carolina State University, 1984-1991
Associate Professor, Department of Agricultural and Resource Economics,
North Carolina State University, 1990-1991
Assistant Professor, Department of Economics and Business, North
Carolina State University, 1979-1984
Research Economist, Public Transportation and Planning Division,
Washington State Department of Transportation, 1976-1979
Teaching Associate, Department of Economics, University of Washington,
1971-1976

PROFESSIONAL ACTIVITIES

Fields:

Environmental Economics
Natural Resource Economics
Urban Economics and Regional Economics
Microeconomics

Teaching experience:

North Carolina State University

ECG 715 Environmental and Resource Economics
ECG 701 Microeconomic Theory I
ECG 700 Foundations of Microeconomic Theory
EC 436 Environmental Economics
EC 435 Urban Economics
ARE (EC) 336 Introduction to Resource and
Environmental Economics
EC 301 Intermediate Microeconomics Theory
EC 201 Economics I

Graduate student committees

PhD - Chairman or Co-chairman of eighteen
committees
- Member of nineteen other committees
- Member of two committees at UNC, Chapel Hill
- Member of one committee at Duke University
MA - Chairman of one committee (thesis)
MS - Co-Chairman of one committee (thesis)
- Member of two committees (thesis)
ME - Chairman of nineteen committees
- Member of fifteen other committees
MSM - Chairman of one committee
- Member of five other committees
Other departments - Minor representative on nine
Masters committees

University of Washington

Graduate Macroeconomic Analysis
Public Finance
Introduction to Microeconomic Theory
Introduction to Economics

Professional memberships:

American Economic Association
Association of Environmental and Resource Economists
American Agricultural Economics Association

Positions held

Associate Editor, *Journal of Environmental Economics and Management*, 1992-93

Vice-president, Association of Environmental and Resource Economists, 1998-2000

Member of an Expert Panel on “Methods for Estimating the Social Benefits of EPA Land Clean Up and Reuse Programs” for the U.S. Environmental Protection Agency

Referee for:

American Economic Review
Journal of Political Economy
Review of Economics and Statistics
Review of Economic Studies
Journal of Environmental Economics and Management
Journal of Urban Economics
Land Economics
Journal of Public Economics
Regional Science and Urban Economics
Journal of Regional Science
American Journal of Agricultural Economics
Southern Journal of Agricultural Economics
Journal of Housing Economics
American Real Estate and Urban Economics Association Journal
Journal of Real Estate Finance and Economics
Managerial and Decision Economics
Public Finance Quarterly
Transportation Research Record
Quarterly Journal of Business and Economics
Western Journal of Agricultural Economics
Australian Journal of Agricultural and Resource Economics
Water Resources Research
Environmental and Resource Economics
Marine Resource Economics
Contemporary Economic Policy
Forest Science
Journal of Leisure Research
Leisure Sciences
Canadian Journal of Forest Research
Policy Studies Journal
European Review of Agricultural Economics
Resource and Energy Economics
Economic Development and Technical Change
Journal of Agricultural and Applied Economics
Journal of Agricultural and Resource Economics
Urban Studies

Reviewer for:

National Science Foundation
Economics
Geography and Regional Science
Natural and Manmade Hazard Mitigation
Decision, Risk, and Management Science
National Sea Grant College Program
U.S. Environmental Protection Agency
Office of Policy, Planning, and Evaluation
National Center for Environmental Economics
Office of Economy and the Environment
Office of Solid Waste and Emergency Response
National Marine Fisheries Service
Florida Sea Grant College Program
Delaware Sea Grant College Program
Wisconsin Sea Grant College Program
Maryland Agricultural Experiment Station
Agricultural Research Service
Agricultural Extension Service
NC Sedimentation Pollution Control Commission
Austrian Science Fund

Consulting experience:

Environmental Protection Agency
Office of Air Quality Planning and Standards
Office of Solid Wastes and Emergency Response
U. S. Department of Agriculture, Economic Research Service
Research Triangle Institute
North Carolina Department of Environment, Health and Natural
Resources, Division of Water Resources
North Carolina Department of Administration, Outer Continental
Shelf Office
Spectrum Economics, Inc.
ICF, Inc.
Industrial Economics, Inc.
Foster Associates Inc.
Wake County Department of Revenue
Bala Research, Inc.
Quinn, Gordan, and Wolf, LLP
Triangle Economic Research
The Hannon Law Firm
IMS Expert Services
Foley and Lardner, LLP

HONORS AND AWARDS

Undergraduate

C.A. Norgren Scholarship
Boettcher Scholarship
National Merit Scholarship
University of Chicago Scholarship
Martin Marietta Corporation Scholarship

Graduate

James T. Hall Memorial Public Finance Award
National Science Foundation Traineeship
Lincoln Institute of Land Policy and American Real Estate and Urban
Economics Association Dissertation Competition -- first prize

GRANTS AND CONTRACTS

U.S. Department of Transportation, Federal Highway Administration, "Impact of Highway Improvements on Property Values in Washington"

U.S. Department of Housing and Urban Development, "The Determinants of Urban Residential Location Patterns"

U.S. Environmental Protection Agency, "The Effects of Air Pollutants on Residential Property Values"

U.S. Environmental Protection Agency, "Estimating the Demand for Air Quality from Property Values: Further Results"

U.S. Department of Agriculture, Forest Service, Cooperative Agreement on "Determination of Appropriate Economic Efficiency Criterion for Evaluating Public Forestry Programs"

U.S. Environmental Protection Agency, "Valuing Improvements in Stationary-Source Lead Emissions"

U.S. Environmental Protection Agency, "Marketable Permits for Ozone Nonattainment Areas"

U.S. Environmental Protection Agency and N.C. Department of Natural Resource and Community Development, Cooperative Agreement on "The Value of Recreational Fishing on the Albemarle and Pamlico Estuaries" (with V. Kerry Smith)

U.N.C. Sea Grant College Program, Cooperative Agreement on "Marine Recreational Benefits and the Characteristics of Estuaries: A Comparative Appraisal of Demand Methodologies" (with V. Kerry Smith)

U.N.C. Sea Grant College Program, Cooperative Agreement on "Measuring the Full Recreation Related Benefits from Improvements in Estuarine Quality" (with V. Kerry Smith)

GRANTS AND CONTRACTS (continued)

Agricultural Research Service, "The Off-farm Value of Estuarine Environmental Improvements"

National Sea Grant College Program, "Estimating the Use and Nonuse Damages of Debris for Coastal Resources and Noncommercial Marine Species" (with V. Kerry Smith)

North Carolina Department of Environment, Health and Natural Resources, "Review of TVA Draft Environmental Impact Statement and USDA Forest Service Report on the Benefits and Costs of Alternative Reservoir Management Policies" (with V. Kerry Smith)

U.N.C. Sea Grant College Program, Cooperative Agreement on "Estimating the Use and Existence Value of Coastal Amenities" (with V. Kerry Smith)

USDA Forest Service, "Economic Analysis of the Determinants of Bid Prices on Private Timber Contracts," (with Randal R. Rucker and Ian Munn)

USDA Forest Service, "Economic Analysis of the Differences between Bid Prices on Forest Service and Private Timber Sales,"(with Randal R. Rucker and Ian Munn)

N. C. Agricultural Research Service, "Economic Impact Study of Swine and Poultry Production in North Carolina" (with Kelly Zering, Jon Brandt, Tomislav Vukina, and Fritz Roka)

U.S. Department of Agriculture, "Analysis of the Attributes of Farmland Values, Sales, and Cash Rents Data in the 1994 June Agricultural Survey" (with Fritz Roka)

The Environmental Industries Association Research and Education Foundation, "Evaluating the Potential for Futures Markets in Recyclable Materials" (with Mort Barlaz, Charles Knoeber, and Downey Brill)

U.S. Minerals Management Service and N. C. Division of Coastal Management, "Economic Analysis of "The Point" and the Adjacent Counties: Baseline Information, Valuation, and the Potential Impacts of Exploratory Drilling"

Wake County Department of Revenue, "The Use of Mass Appraisal Techniques for Determining Property Values."

Water Resource Research Institute, "Land Use Patterns and Pollution in the Upper Neuse River" (with Dan Phaneuf)

U.S. Environmental Protection Agency, "Measuring Economic Benefits for Amenity Consequences of Water Quality Changes" (with Kerry Smith and Dan Phaneuf)

U.S. Department of Agriculture, "National Needs Graduate Fellowships" (with Wally Thurman)

PUBLICATIONS

Refereed journal articles:

Palmquist, Raymond B., "Hedonic Price and Depreciation Indexes for Residential Housing: A Comment," *Journal of Urban Economics*, April 1979, 6, 267-271.

Robert Halvorsen and Raymond B. Palmquist, "The Interpretation of Dummy Variables in Semi-logarithmic Equations," *American Economic Review*, June 1980, 70, 474-475.

Palmquist, Raymond B., "Alternative Techniques for Developing Real Estate Price Indexes," *Review of Economics and Statistics*, August 1980, 62, 442-448.

Palmquist, Raymond B., "Measuring Environmental Effects on Property Values without Hedonic Regressions," *Journal of Urban Economics*, May 1982, 11, 333-347.

Palmquist, Raymond B., "Common Property Externalities: Isolation, Assurance, and Resource Depletion in a Traditional Grazing Context: Comment," (with E. C. Pasour, Jr.) *American Journal of Agricultural Economics*, November 1982, 64, 783-784.

Palmquist, Raymond B., "Impact of Highway Improvements on Property Values in Washington State," *Transportation Research Record*, 1982, 887, 22-29.

Palmquist, Raymond B., "Estimating the Demand for the Characteristics of Housing," *Review of Economics and Statistics*, August 1984, 66, 394-404.

Palmquist, Raymond B., "Welfare Measurement for Environmental Improvements Using the Hedonic Model: The Case of Nonparametric Marginal Prices," *Journal of Environmental Economics and Management*, September 1988, 15, 297-312.

Palmquist, Raymond B., "Land as a Differentiated Factor of Production: A Hedonic Model and Its Implications for Welfare Measurement," *Land Economics*, February 1989, 65, 23-28.

Palmquist, Raymond B. and Leon E. Danielson, "A Hedonic Study of the Effects of Erosion Control and Drainage on Farmland Values," *American Journal of Agricultural Economics*, February 1989, 71, 55-62.

Palmquist, Raymond B., "Pollution Subsidies and Multiple Local Optima," *Land Economics*, November 1990, 66, 394-401.

Refereed journal articles (continued):

- Smith, V. Kerry, Raymond B. Palmquist, and Paul Jakus, "Combining Farrell Frontier and Hedonic Travel Cost Models for Valuing Estuarine Quality," *Review of Economics and Statistics*, November 1991, 73, 694-699.
- Palmquist, Raymond B., "Valuing Localized Externalities," *Journal of Urban Economics*, January 1992, 31, 59-68.
- Palmquist, Raymond B., "A Note on Transactions Costs, Moving Costs, and Benefit Measurement," *Journal of Urban Economics*, July 1992, 32, 40-44.
- Smith, V. Kerry, Jin Long Liu, and Raymond B. Palmquist, "Marine Pollution and Sport Fishing Quality: Using Poisson Models as Household Production Functions," *Economic Letters*, 1993, 42, 111-116.
- Smith, V. Kerry, and Raymond B. Palmquist, "Temporal Substitution and Recreational Value of Coastal Amenities," *Review of Economics and Statistics*, February 1994, 76, 119-126.
- Vukina, Tomislav, Fritz M. Roka, and Raymond B. Palmquist, "Swine Odor Nuisance: Voluntary Negotiation, Litigation, and Regulation," *Choices*, First Quarter 1996, pp. 26-29.
- Palmquist, Raymond B., Fritz M. Roka, and Tomislav Vukina, "Hog Operations, Environmental Effects, and Residential Property Values," *Land Economics*, February 1997, 73, 114-124.
- Smith, V. Kerry, Xiaolong Zhang, and Raymond B. Palmquist, "Marine Debris, Beach Quality, and Non-Market Values," *Environmental and Resource Economics*, 1997, 10, 223-247.
- Munn, Ian A., and Raymond B. Palmquist, "Estimating Hedonic Price Equations for a Timber Stumpage Market Using Stochastic Frontier Estimation Procedures," *Canadian Journal of Forest Research*, August 1997, 27, 1276-1280.
- Roka, Fritz M., and Raymond B. Palmquist, "Examining the Use of National Databases in a Hedonic Analysis of Regional Farmland Values," *American Journal of Agricultural Economics*, December 1997, 79, 1651-1656.
- Craig, Lee A., Raymond B. Palmquist, and Thomas Weiss, "Transportation Improvements and Land Values in the Antebellum United States: A Hedonic Approach," *Journal of Real Estate Finance and Economics*, 1998, 16, 173-190.

Refereed journal articles (continued):

- Palmquist, Raymond B., and Adis Israngkura, "Valuing Air Quality with Hedonic and Discrete Choice Models," *American Journal of Agricultural Economics*, 1999, 81, 1128-1133.
- SoEun Ahn, J. E. deSteiguer, Raymond B. Palmquist, and T. P. Holmes "Economic Analysis of the Potential Impact of Climate Change on Recreational Trout Fishing in the Southern Appalachian Mountains: An Application of a Nested Multinomial Logit Model," *Climatic Change*, 2000, 45, 493-509.
- Ju-Chin Huang and Raymond B. Palmquist, "Environmental Conditions, Reservation Prices, and Time on the Market for Housing," *Journal of Real Estate Finance and Economics*, 2001, 22, 203-219.
- Palmquist, Raymond B., "Weak Complementarity, Path Independence, and the Intuition of the Willig Condition," *Journal of Environmental Economics and Management*, 2005, 49, 103-115.
- Mary Atasoy, Raymond B. Palmquist, and Daniel J. Phaneuf, "Estimating The Effects Of Urban Residential Development On Water Quality Using Microdata", *Journal of Environmental Management*, 2006, 79, 399-408.
- Phaneuf, Daniel J., V. Kerry Smith, Raymond B. Palmquist, and Jaren C. Pope, "Economic Characterization of Ecosystem Services and the Costs of Development", *Land Economics*, forthcoming.

Papers in collections:

- Palmquist, Raymond B., "Heterogeneous Commodities, Hedonic Regressions, and the Demand for Characteristics," in Reynolds, John E., et al., eds., *The Farm Real Estate Market*, Southern Natural Resource Economics Committee, 1986.
- Palmquist, Raymond B., "Hedonic Methods," in Braden, John B., and Charles D. Kolstad, eds., *Measuring the Demand for Environmental Quality*, North Holland, 1991, 77-120
- reprinted in Statistical Models for *Estimating the Economic Benefits of Goods Not Sold in Markets*, Inter-American Development Bank, 1994.
- Smith, V. Kerry, Xiaolang Zhang, and Raymond B. Palmquist, "The Economic Value of Controlling Marine Debris," in James M. Coe and Donald B. Rogers, eds., *Marine Debris: Sources, Impacts, and Solutions*, Springer-Verlager, New York, 187-202, 1997.
- Palmquist, Raymond B., "Hedonic Models" in Jeroen C.J.M. van den Bergh, ed., *Handbook of Environmental and Resource Economics*, Edward Elgar Publishing, 765-776, 1999.

Papers in collections (continued)

Palmquist, Raymond B., "Valuing Environmental Quality with Property Value Studies: A Tool for Making Development Decisions," in Giovanni Maciocco and Giampaolo Marchi, eds., *Dimensione Ecologica e Sviluppo Locale: Problemi di Valutazione*, FrancoAngeli, Milano Italy, 2000.

Palmquist, Raymond B., and V. Kerry Smith, "The Use of Hedonic Property Value Techniques for Policy and Litigation," in Tom Tietenberg and Henk Folmer, eds., *International Yearbook of Environmental and Resource Economics*, Edward Elgar, 115-164, 2002.

Reprinted in a paperback edition, 2003

Reprinted in Michael Hoel, ed., *Recent Developments in Environmental Economics* in the International Library of Critical Writings in Economics Series, Edward Elgar, 2004.

Palmquist, Raymond B., "Property Value Models," in Karl-Göran Mäler and Jefferey Vincent, eds., *Handbook of Environmental Economics, volume II, Valuing Environmental Changes*, Elsevier North Holland, 2005, 763-819.

Palmquist, Raymond B., "Using Hedonic Techniques to Estimate the Effects of Rural Land Use Change on Property Values: An Example," in Kevin Boyle, Andrew Plantinga, Jonathan Rubin, and Mario Teisl, eds., *Economics of Rural Land Use Change*, Ashgate, 2006.

Palmquist, Raymond B., and Charles Fulcher, "The Economic Valuation of Shoreline Twenty-five Year Later," in Robert Halvorsen and David F. Layton, eds., *Explorations in Environmental and Natural Resource Economics: Essays in Honor of Gardner M. Brown, Jr.*, Edward Elgar, 2006.

Proceedings, presented papers, and published abstracts:

Palmquist, Raymond B., "Alternative Techniques for Developing Real Estate Price Indexes," presented at the Econometric Society meetings, Chicago, August 1978.

Palmquist, Raymond B., "The Demand for Housing Characteristics: Reconciling Theory and Estimation," presented at the American Real Estate and Urban Economic Association meetings, Washington, D.C., December 1981.

Proceedings, presented papers, and published abstracts (continued):

Palmquist, Raymond B., "The Impact of Highway Improvements on Property Values," presented at the Transportation Research Board Annual Meetings, Washington, D.C., January 1982.

Palmquist, Raymond B., "Estimating the Demand for Air Quality from Property Value Studies," presented at the American Real Estate and Urban Economic Association meetings, New York City, December 1982.

Palmquist, Raymond B., "The Value of Recreational Fishing on the Albemarle and Pamlico Sounds," (based on a research project with V. Kerry Smith) presented at the First Annual Meeting of the Albemarle-Pamlico Estuarine Study, Washington, NC, October 1988.

Palmquist, Raymond B., "Hedonic Methods," presented at a workshop on Measuring the Demand for Environmental Commodities, Chicago, November 1988.

Palmquist, Raymond B., "A Nonparametric Hedonic Travel Cost Model for Valuing Estuarine Quality," (based on a paper with V. Kerry Smith and Paul Jakus) presented at the Association of Environmental and Resource Economists meetings, Vancouver, British Columbia, August 1990.

Palmquist, Raymond B., "Recreation Site Definition and Benefit Measurement," (based on a paper with V. Kerry Smith) presented at the American Agricultural Economics Association meetings, Vancouver, British Columbia, August 1990.

Palmquist, Raymond B., "Using Property Values to Measure the Benefits of Environmental Improvements with Respect to Hazardous Wastes," presented as part of the Environmental Benefits Estimation Workshop, U.S. Environmental Protection Agency, Washington D.C., April 1991

Palmquist, Raymond B., "Emission Trading: Will Economic Incentives Reduce the Costs?," presented as part of Emerging Environmental Policies and Business, Resource and Environmental Economics Program, Division of Economics and Business, North Carolina State University, April 1991

Palmquist, Raymond B., "Valuing Changes in Water Quality," presented at North Carolina Marine Fisheries Economics Summit, North Carolina Division of Marine Fisheries, et al., September 1992

Proceedings, presented papers, and published abstracts (continued):

Munn, Ian A., and Raymond B. Palmquist, "Modelling Hedonic Price Equations as Stochastic Frontiers," presented at the American Agricultural Economics Association Summer Meetings, Indianapolis, August 1995

Roka, Fritz M., Raymond B. Palmquist, and Tomislav Vukina, "Welfare Effects of Swine Odor: A Hedonic Study of Property Values in North Carolina," presented at the American Agricultural Economics Association Summer Meetings, Indianapolis, August 1995

MacNair, Douglas, Raymond B. Palmquist, Thomas Holmes, and John Loomis, "A Public Choice Model of Forest Service Decision Making," presented at the American Agricultural Economics Association Summer Meetings, Indianapolis, August 1995

Roka, Fritz M., and Raymond B. Palmquist, "Examining the Use of National Databases in a Hedonic Analysis of Regional Farmland Values," presented at the American Agricultural Economics Association Summer Meetings, Toronto, Canada, July 1997.

Huang, Ju-Chin, and Raymond B. Palmquist, "Modeling Market Duration and Reservation Price: Impact of Highway Noise on Property Values and Time to Sale," presented at the Association of Environmental and Resource Economists Winter Meetings, Chicago, January 1998.

Palmquist, Raymond B., "Valuing Environmental Quality with Property Value Studies," presented at The Ecological Dimension and Local Development: Evaluation and Assessment, Università Degli Studi di Cagliari, Sardinia, Italy, March 1998.

Palmquist, Raymond B., "Weak Complementarity, Path Independence, and the Intuition of the Willig Condition," presented at the Second World Congress of Environmental and Resource Economists, Monterey, June 2002

Palmquist, Raymond B., "The Economic Valuation of Shoreline Twenty-five Year Later," presented at Frontiers in Natural Resource and Environmental Economics, Seattle, April 2003

Atasoy, Mary, Raymond B. Palmquist, and Daniel J. Phaneuf, "Land Use Patterns and Pollution in the Upper Neuse," presented at Water Resources Research Institute Annual Conference, Raleigh, April 2003

Phaneuf, Danild J., and Raymond B. Palmquist, "Estimating Spatially and Temporally Explicit Land Conversion Models using Discrete Duration," presented at the Association of Environmental and Resource Economists Workshop, Madison, Wisconsin, June 2003.

Proceedings, presented papers, and published abstracts (continued):

- Pope, Jaren C., V. Kerry Smith, Raymond B. Palmquist, Daniel J. Phaneuf, "Linking Chemical, Biological, And Geomorphological Data To Economic Activities Relevant To Watershed Assessment," presented at the 2004 Water Resources Research Institute Conference, Raleigh, March 2004.
- Palmquist, Raymond B., Daniel J. Phaneuf, and V. Kerry Smith, "Differing Values of Time for Non-market Valuation: A Theoretical and Empirical Comparison," presented at the Association of Environmental and Resource Economists meetings, Denver, August 2004.
- Smith, V. Kerry, Daniel J. Phaneuf, and Raymond B. Palmquist, "Choice Margins and the Measurement of Ecological Benefits: The Case of Urban Watersheds," presented at the EPA Workshop, Valuation of Ecological Benefits: Improving Science behind Policy Decisions, Washington, D.C., October 2004 and Association of Environmental and Resources Economists meetings, Philadelphia, January 2005
- Palmquist, Raymond B., "Hedonic Property Value Models," presented at an EPA Workshop on Methods for Estimating the Social Benefits of EPA Land Clean Up and Reuse Programs, September 2006

Monographs, research reports, and miscellaneous publications:

- Palmquist, Raymond B., *Impact of Highway Improvements on Property Values in Washington, WA-RD-37.1* Report to the Federal Highway Administration, Washington State Department of Transportation, NTIS #PB80-170 715, March 1980.
- Diamond, Douglas B., Barton A. Smith, and Raymond B. Palmquist, *The Determinants of Urban Residential Location Patterns*, HC 5035 Final Report to the U.S. Department of Housing and Urban Development, December 1982.
- Palmquist, Raymond B., *The Effects of Air Pollutants on Residential Property Values*, Report to the Environmental Protection Agency, November 1982.
- Palmquist, Raymond B., *Estimating the Demand for Air Quality from Property Value Studies: Further Results*, Report to the Environmental Protection Agency, October 1983.
- Palmquist, Raymond B., "The Benefits of Alternative NO₂ Standards as Estimated from Property Value Studies," Report to the Environmental Protection Agency, October 1983.

Monographs, research reports, and miscellaneous publications (continued):

- Palmquist, Raymond B., *Marketable Permits for Ozone Nonattainment Areas*, Report to the Environmental Protection Agency, September 1986.
- Palmquist, Raymond B., *Determination of Appropriate Economic Efficiency Criteria for Evaluating Public Forestry Programs*, Report to the U.S. Forest Service, December 1986.
- Smith, V. Kerry, and Raymond B. Palmquist, *The Value of Recreational Fishing on the Albemarle and Pamlico Estuaries*, Report of the U.S. Environmental Protection Agency, July 1989.
- Smith, V. Kerry, and Raymond B. Palmquist, *Review of TVA Draft Environmental Impact Statement and USDA Forest Service Report on the Benefits and Costs of Alternative Reservoir Management Policies*, Report to the North Carolina Department of Environment, Health and Natural Resources.
- Palmquist, Raymond B., Fritz M. Roka, and Thomislav Vukina, "The Effect of Environmental Impacts from Swine Operations on Surrounding Property Values," Working Paper, Department of Economics and Department of Agricultural and Resource Economics, North Carolina State University, May 1995.
- Smith, V. Kerry, Xiaolong Zhang, and Raymond B. Palmquist, "Marine Debris, Beach Quality, and Non-Market Values," Resources for the Future Discussion Paper 96-07, revised April 1996.
- Brian Green, Charles R. Knoeber, and Raymond B. Palmquist, *Price Volatility in Recyclables*, Environmental Industries Association Research and Education Foundation, February 1999.
- Brian Green, Charles R. Knoeber, and Raymond B. Palmquist, *The Use of Futures Markets, Forward Contracting, and Vertical Integration to Reduce Price Risk in the Recycling Industry*, Environmental Industries Association Research and Education Foundation, December 1999.
- Palmquist, Raymond B., Pete Schuhmann and Jeff Michael, *Economic Analysis of "The Point" and Adjacent Counties: Baseline Information, Valuation, and Potential Impacts*, N.C. Division of Coastal Management and the U.S. Minerals Management Service, December 1999.
- Mort Barlaz, Downey Brill, Charles Knoeber, Raymond B. Palmquist, and Brian Green, *Futures Markets and the Use of Technical Standards for the Sale of Recyclables*, Environmental Industries Association Research and Education Foundation, March 2000.

Mary Atasoy, Raymond B. Palmquist, and Daniel J. Phaneuf, Land Use
Patterns and Pollution in the Upper Neuse River, Water
Resources Research Institute, No. 348, December 2003.

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