

AGRICULTURAL AND RESOURCE ECONOMICS REVIEW

Policy Endogeneity and the Effects of Trade on the Environment / *Brian R. Copeland*

Achieving Environmental Objectives Under Reduced Domestic Agricultural Support and Trade Liberalization: An Empirical Application to Taiwan / *Hung-Hao Chang, Richard N. Boisvert, and David Blandford*

Agricultural Trade Liberalization and Greenhouse Gas Emissions: Modeling the Linkages Using a Partial Equilibrium Trade Model / *Caroline Saunders and Anita Wreford*

Greener Acres or Greener Waters? Potential U.S. Impacts of Agricultural Trade Liberalization / *Robert C. Johansson, Joseph Cooper, and Utpal Vasavada*

Effect of a Differentially Applied Environmental Regulation on Agricultural Trade Patterns and Production Location: The Case of Methyl Bromide / *Lori Lynch, Scott Malcolm, and David Zilberman*

Economic Incentives for Controlling Trade-Related Biological Invasions in the Great Lakes / *Richard D. Horan and Frank Lupi*

The Environmental Impacts of Trade Liberalization: A Quantitative Analysis for the United States Using TEAM / *Jared Creason, Michael Fisher, Svetlana Semenova, and Susan F. Stone*

Effects of the Free Trade Area of the Americas on Forest Resources / *James A. Turner, Joseph Buongiorno, and Shushuai Zhu*

Volume Number

*Published by the
Northeastern Agricultural and
Resource Economics Association*

34/1

April 2005

The *Agricultural and Resource Economics Review* (ISSN 1068-2805) (formerly the *Northeastern Journal of Agricultural and Resource Economics*, ISSN 0899-367X) is the official publication of the Northeastern Agricultural and Resource Economics Association (NAREA). The purpose of the *Review* is to foster and disseminate professional thought and literature relating to the economics of agriculture, natural resources, and community development. It is the editorial policy of the *ARER* to encourage manuscript submission without regard to author affiliation and/or location. The *ARER* is published in April and October. In addition to normal refereed articles, it also publishes invited papers presented at the annual meetings of the NAREA as well as abstracts of selected papers presented at those meetings. It periodically calls for articles written on a specific topic. Membership in the NAREA is open to all persons having an interest in agricultural and resource economics. Membership dues include a subscription to the *Review* and are \$25.00 per year for regular membership and \$5.00 per year for students. The single-copy price is \$15.00 per issue.

E-mail all manuscripts and editorial material to:

Dr. Lori Lynch and Dr. Wesley N. Musser
Co-Editors, *ARER*
Department of Agricultural and Resource Economics
2200 Symons Hall
University of Maryland
College Park, MD 20742-5535
e-mail (preferred): ARER@arec.umd.edu

Address requests for membership, subscriptions, and changes of address to:

Dr. Douglas E. Morris
NAREA Secretary-Treasurer
Department of Resource Economics and Development
316 James Hall
56 College Road
University of New Hampshire
Durham, NH 03824-3589
e-mail: demorris@cisunix.unh.edu

Copyright © 2005 by the Northeastern Agricultural and Resource Economics Association. Any article or other material appearing in the *Agricultural and Resource Economics Review* may not be republished in full or in part without the written permission of the editor.

PUBLISHED BY THE NORTHEASTERN AGRICULTURAL
AND RESOURCE ECONOMICS ASSOCIATION

PRINTED BY THE SHERIDAN PRESS, INC., HANOVER, PENNSYLVANIA

AGRICULTURAL AND RESOURCE ECONOMICS REVIEW

Volume 34 / Number 1 ■ April 2005

Contents

*The papers in this volume were presented at the International Trade and
the Environment Workshop of the NAREA annual meetings,
Halifax, Nova Scotia, June 23, 2004.*

Foreword

Special Issue on Trade and the Environment / *David Abler and James Shortle* iii

Invited Paper

Policy Endogeneity and the Effects of Trade on the Environment / *Brian R. Copeland* 1

Contributed Papers

Achieving Environmental Objectives Under Reduced Domestic Agricultural
Support and Trade Liberalization: An Empirical Application to Taiwan /
Hung-Hao Chang, Richard N. Boisvert, and David Blandford 16

Agricultural Trade Liberalization and Greenhouse Gas Emissions:
Modeling the Linkages Using a Partial Equilibrium Trade Model /
Caroline Saunders and Anita Wreford 32

Greener Acres or Greener Waters? Potential
U.S. Impacts of Agricultural Trade Liberalization /
Robert C. Johansson, Joseph Cooper, and Utpal Vasavada 42

Effect of a Differentially Applied Environmental Regulation on
Agricultural Trade Patterns and Production Location: The Case
of Methyl Bromide / *Lori Lynch, Scott Malcolm, and David Zilberman* 54

Economic Incentives for Controlling Trade-Related Biological Invasions
in the Great Lakes / *Richard D. Horan and Frank Lupi* 75

The Environmental Impacts of Trade Liberalization:
A Quantitative Analysis for the United States Using TEAM /
Jared Creason, Michael Fisher, Svetlana Semenova, and Susan F. Stone 90

Effects of the Free Trade Area of the Americas on Forest Resources /
James A. Turner, Joseph Buongiorno, and Shushuai Zhu 104

Books Reviewed

Merlinda D. Ingco and John D. Nash, eds., *Agriculture and the WTO: Creating
a Trading System for Development* / *W. Hartley Furtan* 119

Yacov Tsur, Terry Roe, Rachid Doukkali, and Ariel Dinar, *Pricing Irrigation Water:
Principles and Cases from Developing Countries* / *Erik Lichtenberg* 120

The workshop was funded by support from the U.S. Environmental Protection Agency
(Cooperative Agreement No. X7-83142201-0 with Pennsylvania State University).

AGRICULTURAL AND RESOURCE ECONOMICS REVIEW

Volume 34 / Number 1 ■ April 2005

Lori Lynch and Wesley N. Musser, Co-Editors
University of Maryland

Liesl Koch, Technical Editor
College Park, Maryland

EDITORIAL BOARD

Donald Blayney, USDA/ERS
J. Stephen Clark, Nova Scotia Agricultural College
Ramu Govindasamy, Rutgers University
Tim Kelsey, Pennsylvania State University
Howard Leathers, University of Maryland

Andrew Plantinga, Oregon State University
Kellie Curry Raper, Michigan State University
Qingbin Wang, University of Vermont
Silvia Weyerbrock, Princeton University

ASSOCIATION OFFICERS

PRESIDENT	Daniel A. Lass, University of Massachusetts
PRESIDENT-ELECT	Tim T. Phipps, West Virginia
PAST PRESIDENT	James S. Shortle, Penn State University
SECRETARY-TREASURER.....	Douglas E. Morris, University of New Hampshire

EXECUTIVE COMMITTEE

J. Stephen Clark, Nova Scotia Agricultural College
Director, 2002–2005

Joshua M. Duke, University of Delaware
Director, 2004–2007

James C. Hanson, University of Maryland
2003–2006

Robert Johnston, University of Connecticut, Avery Point
Director, 2003–2006

Susan Leetmaa, USDA/ERS
USDA Government Representative (ex-officio)

James D. Leiby, University of Maine
Director, 2002–2005

Cynthia Nickerson, USDA/ERS
Director, 2004–2007

Harry Vroomen, The Fertilizer Institute
Industry Representative (ex-officio)