

AGRICULTURAL AND RESOURCE ECONOMICS REVIEW

Experimental Methods in Agricultural and Resource Economics: How Useful Are They? / *Ann Fisher, William J. Wheeler, and Rami Zwick*

Experimental Markets and Environmental Policy / *Jason F. Shogren*

The Future of the Land Grant University System / *Tom F. Weaver and Jerry Diamantides*

The U.S. Apple Industry: Econometric Model and Projections / *Lois Schertz Willett*

The Impact of Parcel Characteristics on the Cost of Development Rights to Farmland / *Dennis Wichelns and Jeffrey D. Kline*

Factors Affecting the Adoption of Sustainable Agricultural Practices / *Gerard D'Souza, Douglas Cyphers, and Tim Phipps*

Impacts of PST on Optimal Production and Marketing Decisions of a Grow-Finish Hog Farm Operation / *Ramu Govindasamy, Donald J. Liu, James Kliebenstein*

Institutional Affiliation of Authors in the *American Journal of Agricultural Economics*, 1988–1992 / *Cleve E. Willis, Lisa M. Willis, and Jill Shea*

The Relation Between Farm Production Risk and Off-Farm Income / *Steven C. Kyle*

A Cross-Section Analysis of the Intra-Industry Trade in the U.S. Processed Foods and Beverage Sectors / *Darcy A. Hartman, Dennis R. Henderson, and Ian M. Sheldon*

The Economic Feasibility of Poultry Litter Composting Facilities in Eastern West Virginia / *David A. Fritsch and Alan R. Collins*

The Impact of Domestic and Foreign Macroeconomic Variables on U.S. Meat Exports / *Donald J. Liu, Pin J. Chung, and William H. Meyers*

Volume Number

22 / 2

October 1993

*Published by the
Northeastern Agricultural and
Resource Economics Association*

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 published twice a year 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 subscription to the *Review* and are \$15.00 per year for regular membership and \$5.00 per year for students. Single copy prices are \$7.50 per issue.

Address all manuscripts and editorial material to:

Conrado M. Gempesaw II
Editor, *ARER*
234 Townsend Hall
Department of Food and Resource Economics
University of Delaware
Newark, DE 19717

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

James W. Dunn
NAREA Secretary/Treasurer
203 Armsby Building
The Pennsylvania State University
University Park, PA 16802

Editor's Note: In its 1992 annual business meeting, the NAREA Executive Committee and the general membership voted to change the name of the *Northeastern Journal of Agricultural and Resource Economics* (NJARE) to *Agricultural and Resource Economics Review* (ARER). The *NJARE* was published starting with volume 13, number 2, October 1984 and ending with volume 21, number 2, October 1992. The name change to *ARER*, effective with the April 1993 issue, was undertaken to broaden the scope of the journal and communicate theoretical, applied, and empirical findings in agricultural and resource economics to regional as well as national and international audiences. It is the editorial policy of the *ARER* to encourage manuscript submission without regard to author(s)' affiliation and/or location. From June 1, 1992 to May 31, 1993, fifty manuscripts were submitted for publication in volume 22 of the *Agricultural and Resource Economics Review*. All manuscripts were reviewed by at least two reviewers. Eighteen manuscripts were accepted for publication. Besides the nine refereed manuscripts, three invited papers which were presented during the 1993 NAREA annual meeting are published in this issue. During the 12-month period ending on May 31, 1993, different individuals served as anonymous referees of manuscripts submitted to the *Review*, some serving more than once. Their names are listed on page 251 of this issue.

Volume 22 Number 2
October 1993

AGRICULTURAL AND RESOURCE ECONOMICS REVIEW

Agricultural and Resource Economics Review

Volume 22, Number 2, October 1993

Conrado M. Gempesaw II, Editor
University of Delaware

EDITORIAL BOARD

Julie Caswell, Massachusetts (1993)
Stephen Crutchfield, USDA, ERS (1993)
K. Gary Grant, Nova Scotia (1993)
John Halstead, New Hampshire (1994)
Ralph Heimlich, USDA, ERS (1994)

Harry Kaiser, Cornell (1994)
David Abler, Pennsylvania (1995)
Gerard D'Souza, West Virginia (1995)
Julie Iskow, Vermont (1995)

ASSOCIATION OFFICERS

PRESIDENT
PRESIDENT-ELECT
PAST PRESIDENT
SECRETARY-TREASURER

James J. Opaluch, Rhode Island
Julie Caswell, Massachusetts
Wesley N. Musser, Pennsylvania
James W. Dunn, Pennsylvania

EXECUTIVE COMMITTEE

Adesoji Adelaja, Rutgers
Lorna Aldrich, USDA
Kevin Boyle, Maine
Boris Bravo-Ureta, Connecticut
Harlan Burnstein, L. Dreyfus Corp.
Julie Caswell, Massachusetts
James Dunn, Pennsylvania

Jill Findeis, Pennsylvania
Conrado Gempesaw, Delaware
Wesley Musser, Pennsylvania
James Opaluch, Rhode Island
Tim Phipps, West Virginia
Christine Ranney, Cornell

Contents

Invited Presentations

Experimental Methods in Agricultural and Resource Economics: How Useful Are They? / <i>Ann Fisher, William J. Wheeler, and Rami Zwick</i>	103
Experimental Markets and Environmental Policy / <i>Jason F. Shogren</i>	117
The Future of the Land Grant University System / <i>Tom F. Weaver and Jerry Diamantides</i> ...	130

Articles

The U.S. Apple Industry: Econometric Model and Projections / <i>Lois Schertz Willett</i>	137
The Impact of Parcel Characteristics on the Cost of Development Rights to Farmland / <i>Dennis Wichelns and Jeffrey D. Kline</i>	150
Factors Affecting the Adoption of Sustainable Agricultural Practices / <i>Gerard D'Souza, Douglas Cyphers, and Tim Phipps</i>	159
Impacts of PST on Optimal Production and Marketing Decisions of a Grow-Finish Hog Farm Operation / <i>Ramu Govindasamy, Donald J. Liu, James Kliebenstein</i>	166
Institutional Affiliation of Authors in the <i>American Journal of Agricultural Economics</i> , 1988–1992 / <i>Cleve E. Willis, Lisa M. Willis, and Jill Shea</i>	175
The Relation Between Farm Production Risk and Off-Farm Income / <i>Steven C. Kyle</i>	179
A Cross-Section Analysis of the Intra-Industry Trade in the U.S. Processed Foods and Beverage Sectors / <i>Darcy A. Hartman, Dennis R. Henderson, and Ian M. Sheldon</i>	189
The Economic Feasibility of Poultry Litter Composting Facilities in Eastern West Virginia / <i>David A. Fritsch and Alan R. Collins</i>	199
The Impact of Domestic and Foreign Macroeconomic Variables on U.S. Meat Exports / <i>Donald J. Liu, Pin J. Chung, and William H. Meyers</i>	210
Abstracts of Organized Symposia and Selected Papers.....	222
NAREA Outstanding Master's Thesis Award Abstracts.....	232
Journal Article for the Year for 1992.....	237
Honorary Life and Distinguished Member Awards.....	238
Presidents, 1955–1994, and Editors, 1972–1995.....	242
Minutes of the Annual Business Meeting.....	243
NAREA Constitution and By-Laws.....	246
ARER Reviewers, June 1992 to May 1993.....	251