
SOUTHERN JOURNAL OF AGRICULTURAL ECONOMICS



Volume 19, Number 2
December, 1987

Published by
Southern Agricultural Economics Association

SOUTHERN JOURNAL OF AGRICULTURAL ECONOMICS

Volume 19, Number 2
December 1987

Copyright © 1987 by the Southern Agricultural Economics Association

1987 Editorial Council

Stephen E. Miller, *Clemson University*,
Co-Editor

Gary J. Wells, *Clemson University*, Co-
Editor

Kim B. Anderson, *Oklahoma State
University*

John Brooker, *University of
Tennessee*

Ralph D. Christy, *Louisiana State
University*

Ivery D. Clifton, *University of Georgia*,
Athens

Tesfa G. Ghebremedhin, *Southern
University*

Cary W. Herndon, Jr., *Mississippi
State University*

C. L. Charlie Huang, *University of
Georgia, Experiment*

James D. Johnson, *NED, ERS, USDA*

Thomas G. Johnson, *Virginia Polytechnic
Institute and State University*

Richard A. King, *North Carolina State
University*

Stephen F. Matthews, *University of
Missouri*

Angelos Pagoulatos, *University of
Kentucky*

J. Martin Redfern, *University of
Arkansas*

Edward M. Rister, *Texas A&M University*

J. Scott Shonkwiler, *University of
Florida*

Ted R. Nelson, *Oklahoma State
University*

Stephen Ott, *University of Georgia*,
Experiment

Dan Taylor, *Virginia Polytechnic
Institute and State University*

Al Tinsley, *Clemson University*

Editorial Staff

Elisabeth Dendy, Copy Editor

Nell Brooks, Secretary

Editorial Policy

The purpose of the *Journal* is to provide a forum for creative and scholarly work in agricultural economics and related areas. Contributions on methodology and applications in business, extension, research, and teaching phases of agricultural economics are encouraged. Preference will be given to articles addressing problems and issues of concern in the southern region of the United States. Only submitted articles recommended by the Editorial Council are accepted for publication.

The Editorial Council encourages constructive criticism of *Journal* articles and will publish accepted comments and replies.

1987 Microcomputer Software Committee

Jeffrey L. Jordan, *University of
Georgia, Experiment*, Co-Chairperson
for Review

Preston LaFerney, *University of
Arkansas*, Co-Chairperson for Policy

Ernest Bentley, *Farm Computer Center,
Inc., Christiansburg, Virginia*

Bob Dahle, *North Carolina State
University*

Richard Levins, *University of Maryland*

James McGrann, *Texas A&M University*

SOUTHERN JOURNAL OF AGRICULTURAL ECONOMICS

Volume 19, Number 2

December, 1987

Published by

Southern Agricultural Economics Association

COLLEAGUES WHO ASSISTED THE EDITORIAL COUNCIL DURING 1987

Mary Ahearn	Mike Hammig	Emmanuel Osagie
Albert Allen	Hal Harris	Donald Osburn
John R. Allison	J. C. Headley	Mechel Paggi
Glenn C. W. Ames	David Henneberry	Lucas D. Parsch
E. M. Babb	Shida Henneberry	Kenneth Paxton
Bruce Bainbridge	Steve Henning	Wesley Peterson
Charles H. Barnard	Mark Henry	Gregory Pompelli
Dennis G. Beckmann	Roger Hinson	Joseph C. Purcell
Dan Bernardo	Fred Hoff	Wayne Purcell
David Bessler	John Holt	David Pyles
Barry W. Bobst	Jack Houston	P. James Rathwell
W. G. Boggess	Donald Huffman	Robert Raunikar
Jon Brandt	David Hunter	Michael R. Reed
Robert Branson	John E. Ikerd	Steve Reiling
Maury Bredahl	Craig Infanger	Lynn Reinschmiedt
Josef M. Broder	Victor Jacobs	Duane R. Reneau
M. G. Brown	Ronald Jeremais	James Richardson
Adell Brown, Jr.	Raleigh Jobes	Steven K. Riggins
Bruce Bullock	Dewitt Jones	Roland K. Roberts
Oral (Jug) Capps	Lonnie Jones	Randal R. Rucker
Dale Carley	Jeffery Jordan	Richard Rudel
Gerald A. Carlson	Kandice Kahl	Mike Salassi
Barbara Chattin	Ed Kaiser	Larry Sanders
Cheryl Christensen	Ronald Kay	Charles B. Sappington
Mark Cochran	Michael Kaylen	Joe Schatzer
Marshall Cohen	Dave Kenyon	Robert Schwart
Robert Collins	Danny Klinefelter	Leonard Shabman
Neil Conklin	Thomas Knight	Carl Shafer
Terry Crawford	Ronald Knutson	Donald W. Shurley
Charles Curtis	Steven Koening	Jerry R. Skees
Ernest Davis	Randy Kramer	Bob Skinner
Joe T. Davis	Ronald Lacewell	T. H. Spreen
Leroy Davis	Mark Lange	Stan Spurlock
David L. Debertin	M. R. Langham	Dan Taylor
Chuck DeCourley	Mack Leath	T. G. Taylor
Gary Devino	David Leatham	William Taylor
Robert Dismukes	J. Y. Lee	Bernard Tew
Bruce Dixon	Stephen Leong	Bill Thomas
Damona Doye	Lawrence Lippke	C. Stassen Thompson
David B. Eastwood	Michael Lopez	Dan Tilley
R. D. Emerson	Ross Love	Ronald W. Todd
Burton C. English	Ashley Lovell	James Trapp
James E. Epperson	E. Jane Luzar	Harlon Traylor
Francis Epplin	Gary D. Lynne	P. J. Van Blokland
Don Farris	Harry Mapp	Lonnie Vandever
Stanley M. Fletcher	Bob McElory	Larry Van Tassell
Wojciech J. Florkowski	Patricia McLean-Meyinsse	Uptal Vasavada
S. A. Ford	Ben R. McManus	Eric J. Wailes
Edward O. Fryar	Lee A. Meyer	Clement Ward
Delton Gerloff	Steve Meyer	R. W. Ward
W. D. Givans	Bill Miller	Gerald Warmann
Joseph Glauber	J. W. Milton	Michael Weiss
Dargan Glaze	Jim Mjelde	Mike Welsh
H. L. Goodwin	Kevin Moore	Michael Wetzstein
Bernal Green	Charles Moss	Robert Wharton
Wade Griffin	S. Darrell Mundy	Fred C. White
Lewell Gunter	John Nichols	Joe Williams
Duane Hacklander	Clair Nixon	Robert Yonkers
Kim Haden	George Norton	Tom Zacharias
Waymon A. Halbrook	Robert Oehrtman	
Harry H. Hall	Dave Orden	

CONTENTS

Submitted Articles

- Information and Herd Health Management Practices in Texas Dairies
Wayne H. Howard, Thomas O. Knight, C. Richard Shumway,
Robert W. Blake, and Michael A. Tomaszewski 1
- A Stochastic Dominance Analysis of Contract Grazing Feeder Cattle
Frank Johnson, Thomas H. Spreen, and
Timothy Hewitt 11
- Cost Effectiveness of Alternative Subsidy Strategies for Soil Erosion Control
William M. Park and David G. Sawyer 21
- Energy Use in U.S. Agriculture: Early Adjustment to the 1973-74 Price Shock
John M. Gowdy, Jack L. Miller, and
Hamid Kherbachi 33
- Regional Impact of Urban Water Use on Irrigated Agriculture
John G. Lee, Ronald D. Lacewell, Teofilo Ozuna, Jr.,
and Lonnie L. Jones 43
- A Discrete Stochastic Programming Model to Estimate Optimal Burning Schedules on
Rangeland
L. Garoian, J. R. Conner, and C. J. Scifres 53
- Farm Level Dynamic Analysis of Soil Conservation: An Application to the Piedmont
Area of Virginia
Eduardo Segarra and Daniel B. Taylor 61
- A Producer-Level Cross-Hedge for Rough Rice Using Wheat Futures
Thomas P. Zacharias, Mark D. Lange, William D. Gleason,
and Harlon D. Traylor 75
- Price Enhancement, Returns Variability, and Supply Response in the U.S. Dairy Sector
Cameron S. Thraen and Jerome W. Hammond 83
- Evaluation of Various Pest Management Characteristics
G. Scott Smith, Michael E. Wetzstein, and
G. Keith Douce 93
- Price Determination in the U.S. Shrimp Market
Charles M. Adams, Fred J. Prochaska, and
Thomas H. Spreen 103
- Implications of Crop Insurance for Farmers and Lenders
David J. Leatham, Bruce A. McCarl, and
James W. Richardson 113
- Optimal Organization of a Statewide Livestock Auction Market System:
The Case of Tennessee
Emily A. McClain and Dan L. McLemore 121
- Live Hog and Pork Imports: Past and Projected Consequences for the U.S. Pork Sector
Jon A. Brandt, Robert E. Young, II,
Shamsul Alam and Abner W. Womack 133
- Demand for Plant Nutrients in Tennessee Disaggregated by Mixed Fertilizer and
Direct Application Materials
Roland K. Roberts and Peter V. Garrod 145

The Responsiveness of U.S. Corn and Soybean Acreages to Conditional Price Expectations: An Application to the 1985 Farm Bill Kamil H. Shideed, Fred C. White, and Stephen J. Brannen	153
Economic Survivability of Mississippi Rice Farms: A Deterministic Simulation Approach Michael E. Salassi, Bobby R. Eddleman, and James G. Hamill	163
An Analysis of Factors That Affect the Quality of Federal Land Bank Loans William E. Hardy, Jr., Stanley R. Spurlock, Donnie R. Parrish, and Lee A. Benoist	175
Consumer Preferences for Local Versus Out-of-State Grown Selected Fresh Produce: The Case of Knoxville, Tennessee David B. Eastwood, John R. Brooker, and Robert H. Orr	183
Agricultural Economics Research and the Experiment Station System David L. Debertin and Garnett L. Bradford	195
A Microcomputer Analysis of Farm Financial Performance Gary D. Schnitkey, Peter J. Barry, and Paul N. Ellinger	203
The Packing Simulation Model Constance L. Falk, Daniel S. Tilley, and R. Joe Schatzer	211
Notes	
Productivity-Concentration Relationship in the U.S. Meatpacking Industry Clement E. Ward	217
Comment and Reply	
Monopsonistic Food Processing and Farm Prices: Comment C. S. Kim and Glenn Schaible	223
Monopsonistic Food Processing and Farm Prices: Reply Henry Kinnucan and Gregory Sullivan	225
Other	
Guidelines for Submissions of Journal Manuscripts	227