



AgEcon SEARCH
RESEARCH IN AGRICULTURAL & APPLIED ECONOMICS

The World's Largest Open Access Agricultural & Applied Economics Digital Library

This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search
<http://ageconsearch.umn.edu>
aesearch@umn.edu

*Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.*

SOUTHERN JOURNAL OF AGRICULTURAL ECONOMICS



Volume 17, Number 1

July, 1985

Published by
Southern Agricultural Economics Association

SOUTHERN JOURNAL OF AGRICULTURAL ECONOMICS

Volume 17, Number 1

July, 1985

Copyright © 1985 by the Southern Agricultural Economics Association

1985 Editorial Council

Neil R. Martin, Jr., *Auburn University*, Editor

John L. Adrian, Jr., *Auburn University*,
Associate Editor

Kim B. Anderson, *Oklahoma State University*

Calvin R. Berry, *University of Arkansas*

Oral Capps, Jr., *Virginia Polytechnic Institute
and State University*

Ralph D. Christy, *Louisiana State University*

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

Stanley M. Fletcher, *University of Georgia*,
Experiment

Ian W. Hardie, *University of Maryland*

Stephen E. Miller, *Clemson University*

Mack C. Nelson, *Ft. Valley State College*

Michael R. Reed, *University of Kentucky*

Lynn L. Reinschmiedt, *Mississippi State
University*

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

Sujit K. Roy, *Texas Tech University*

J. Scott Shonkwiler, Jr., *University of Florida*

Glen Whipple, *University of Tennessee*

1985 Microcomputer Software Committee

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

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

Ernest Bentley, *Farm Computer Center, Inc.*;
Christianburg, Virginia

Wallace Killcrease, *Mississippi State University*

Richard A. Levins, *University of Maryland*

James McGrann, *Texas A&M University*

Ted R. Nelson, *Oklahoma State University*

Kenneth C. Schneeberger, *University of
Missouri-Columbia*

Al Tinsley, *Clemson University*

Neil R. Martin, Jr., *Auburn University*, Ex
Officio

Editorial Staff

E.L. McGraw, Copy Editor

Wanda Toney, 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.

1985 Executive Committee

PRESIDENT J. Richard Conner, *Texas A & M University*

PRESIDENT-ELECT John E. Ikerd, *University of Georgia, Athens*

PAST-PRESIDENT Joseph Havlicek, Jr., *Ohio State University*

FIRST VICE-PRESIDENT Lanny Bateman, *Mississippi State University*

SECOND VICE-PRESIDENT Daniel S. Tilley, *Oklahoma State University*

SECRETARY-TREASURER C. L. Charlie Huang, *University of Georgia, Experiment*

Southern Journal of Agricultural Economics is published in July and December by the Southern Agricultural Economics Association.

Membership in the SAEA, consisting of persons and organizations having a professional interest in agricultural economics, includes subscription to the *Journal*. Regular membership dues are \$10. Junior membership dues are \$5.

The annual subscription rate for libraries and other institutions is \$15. Single copies of current issues are available to individuals at a price of \$5.

Please address all subscription, membership and change of address requests to C. L. Charlie Huang, Department of Agricultural Economics, Georgia Experiment Station, Experiment, Georgia 30212.

**SOUTHERN JOURNAL
OF
AGRICULTURAL
ECONOMICS**

Volume 17, Number 1

July, 1985

Published by

Southern Agricultural Economics Association

SAEA OFFICERS, 1968-86

| Year | President | President-Elect | Vice-President | | Secretary-Treasurer |
|-------------|------------------------|------------------------|---------------------------|---------------------------|----------------------------|
| 1968-69 | Robert W. Rudd | Marshall R. Godwin | A. D. Seale, Jr. | | John C. Redman |
| 1969-70 | Marshall R. Godwin | Thomas J. Whatley | W. J. Lanham | | Luther H. Keller |
| 1970-71 | Thomas J. Whatley | Kenneth R. Tefertiller | Willard F. Williams | | Luther H. Keller |
| 1971-72 | Kenneth R. Tefertiller | James S. Plaxico | William E. Black | | Luther H. Keller |
| 1972-73 | James S. Plaxico | Verner G. Hurt | Charles D. Covey | | Luther H. Keller |
| 1973-74 | Verner G. Hurt | Joseph C. Purcell | James B. Bell | | James H. Simpson |
| 1974-75 | Joseph C. Purcell | Henry J. Meenen | Ted R. Nelson | | James H. Simpson |
| | | | 1st Vice-President | 2nd Vice-President | |
| 1975-76 | Henry J. Meenen | Richard A. King | Vernon R. Eidman | James L. Pearson | James H. Simpson |
| 1976-77 | Richard A. King | Donald E. Farris | Garnett L. Bradford | Thomas G. Brown | James H. Simpson |
| 1977-78 | Donald E. Farris | Joseph D. Coffey | Calvin R. Berry | Robert Raunikar | Gene A. Mathia |
| 1978-79 | Joseph D. Coffey | Leo V. Blakley | Bobby Eddleman | Harold M. Harris | Gene A. Mathia |
| 1979-80 | Leo V. Blakley | Garnett L. Bradford | John E. Lee, Jr. | John Holt | Gene A. Mathia |
| 1980-81 | Garnett L. Bradford | Bobby R. Eddleman | Joseph Havlicek | Neil R. Martin | H. Evan Drummond |
| 1981-82 | Bobby R. Eddleman | Robert Raunikar | Gerald A. Doeksen | Jerry G. West | H. Evan Drummond |
| 1982-83 | Robert Raunikar | Calvin R. Berry | Max R. Langham | J. Richard Conner | H. Evan Drummond |
| 1983-84 | Calvin R. Berry | Joseph Havlicek | J. Richard Conner | John E. Ikerd | H. Evan Drummond |
| 1984-85 | Joseph Havlicek | J. Richard Conner | John E. Ikerd | Lanny Bateman | H. Evan Drummond |
| 1985-86 | J. Richard Conner | John E. Ikerd | Lanny Bateman | Daniel S. Tilley | C. L. Charlie Huang |

CONTENTS

Invited Papers and Discussions

| | |
|--|-----|
| Observations on Changes in Factors Influencing Agricultural Economics and Some Implications for the Profession J. Richard Conner | 1 |
| The Southern Agricultural Economics Association and Resident Instruction Josef M. Broder | 7 |
| Discussion: David M. Kohl | 15 |
| Role of the Southern Agricultural Economics Association in Extension Ronald D. Knutson | 17 |
| Discussion: Harold M. Harris, Jr. | 27 |
| Teaching, Research and Extension Programs at Predominantly Black Land-Grant Institutions Thomas T. Williams and Handy Williamson, Jr. | 31 |
| Discussion: Leo J. Guedry, Jr. | 43 |
| Small Farm Research and Policy Implications Tesfa G. Ghebremedhin and William M. Johnson | 47 |
| Discussion: John C. Crecink | 57 |
| Human Capital Needs of Black Land-Grant Institutions Alfred L. Parks and Richard D. Robbins | 61 |
| Discussion: Carlton G. Davis | 71 |
| Issues in Agricultural Land Markets: An Empirical Perspective Lonnie R. Vandever | 75 |
| Discussion: Stan R. Spurlock | 85 |
| Critical Issues in Agricultural Labor Markets Robert D. Emerson | 89 |
| Discussion: H. L. Goodwin | 99 |
| Capital for the Agriculture of the Future James S. Plaxico and Glenn J. Knowles | 103 |
| Discussion: Danny Klinefelter | 113 |
| Submitted Articles | |
| Risk Management Strategies to Reduce Net Income Variability for Farmers Hamid Falatoonzadeh, J. Richard Conner, and Rulon D. Pope | 117 |
| Temporal Allocation Alternatives for Southeastern Red Delicious Apples L. R. Motsinger, James E. Epperson, and W. O. Mizelle, Jr. | 131 |
| Public Environmental Amenity Benefits of Private Land: The Case of Prime Agricultural Land John C. Bergstrom, B. L. Dillman, and John R. Stoll | 139 |
| A Translog Cost Analysis of Turkey Production in the Mid-Atlantic Region William Grisley and Kangethe W. Gitu | 151 |

| | |
|---|-----|
| Scheduling Inputs with Production Functions: Optimal Nitrogen Programs for Rice | |
| Ronald C. Griffin, M. Edward Rister, John M. Montgomery, and Fred T. Turner | 159 |
| A Mathematical Programming Model for Vegetable Rotations | |
| Wesley N. Musser, Vickie J. Alexander, Bernard V. Tew, and Doyle A. Smittle | 169 |
| The Market Value of Ingress Rights for White-Tailed Deer Hunting in Texas | |
| C. Arden Pope, III and John R. Stoll | 177 |
| Whole Farm Risk-Rating Microcomputer Model | |
| Kim B. Anderson and John E. Ikerd | 183 |
| Abstracts | |
| Selected Papers | 189 |
| Organized Symposia | 206 |
| SAEA Reports | |
| Editors', February 1985 | 207 |
| Secretary-Treasurer's, February 1985 | 210 |
| Guidelines for Submission of Manuscripts | 212 |