



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 9, Number 1

July, 1977

Published by
Southern Agricultural Economics Association

**SOUTHERN JOURNAL OF
AGRICULTURAL ECONOMICS**

Volume 9, Number 1
July, 1977

Copyright © 1977 by the Southern Agricultural Economics Association

1977-78 EDITORIAL COUNCIL

JOHN W. NIXON, University of Georgia, Editor
FLOYD W. WILLIAMS, University of Georgia, Associate Editor
LARRY L. BAUER, Clemson University
MERTON B. BADENHOP, University of Tennessee
LEO J. GUEDRY, Louisiana State University
JOSEPH HAVLICEK, JR., Virginia Polytechnic Institute and State University
SIDNEY ISHEE, University of Maryland
MARC A. JOHNSON, Oklahoma State University
RONALD D. LACEWELL, Texas A & M University
LESTER H. MYERS, University of Florida
DAVID W. PARVIN, JR., Mississippi State University
ROBERT N. SHULSTAD, University of Arkansas
RICHARD L. SIMMONS, North Carolina State University
RUDIE W. SLAUGHTER, University of Missouri

1977-78 EXECUTIVE COMMITTEE

PRESIDENT Donald E. Farris, Texas A & M University
PRESIDENT-ELECT Joseph D. Coffey, Virginia Polytechnic Institute & State University
FIRST VICE-PRESIDENT Calvin R. Berry, University of Arkansas
SECOND VICE-PRESIDENT Robert Raunika, University of Georgia
SECRETARY-TREASURER Gene A. Mathia, North Carolina State University

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 \$10.00. Junior membership dues are \$5.00.

The annual subscription rate for libraries and other institutions is \$15.00. Single copies of current issues are available to individuals at a price of \$5.00.

Please address all subscription, membership and changes of address to Gene A. Mathia, Secretary-Treasurer of SAEA, Department of Economics and Business, P.O. Box 5368, North Carolina State University, Raleigh, North Carolina 27607.

**SOUTHERN JOURNAL
OF
AGRICULTURAL
ECONOMICS**

•••••

Volume 9, Number 1

July, 1977

Published by

Southern Agricultural Economics Association

CONTENTS

Needed Research with Respect to Energy Use in Agricultural Production Joseph Havlicek, Jr. Oral Capps, Jr.	1
Discussion: Needed Research with Respect to Energy Use in Agricultural Production Milton L. Holloway	9
Factors Affecting Structural Change in Agricultural Subsectors: Implications for Research Donn A. Reimund Charles V. Moore J. Rod Martin	11
Discussion: Factors Affecting Structural Change in Agricultural Subsectors: Implications for Research Henry C. Gilliam, Jr.	21
External Finance: A Necessary Component in Growth Projections for Southern Agriculture John B. Penson, Jr.	25
Discussion: External Finance: A Necessary Component in Growth Projections for Southern Agriculture Emanuel Melichar	35
Land Use Planning and Policy in the South Burl F. Long Craig L. Infanger Leon Danielson	41
Political Forces as a Substitute for the Land Market E. C. Pasour, Jr.	51
The Impact of Employment Expansion on Rural Community Service Expenditures: A Small Area Model Barry Ira Shapiro Larry C. Morgan Lonnie L. Jones	57
The Economics of Community Growth: An Impact Model Kenneth C. Clayton David Whittington	63
An Analysis of Oklahoma Population Migration from 1970 to 1974 Michael S. Salkin James R. Nelson	71
An Analysis of Factors Influencing Regional Labor Force Migration, 1960-1970 Robert Pfeiffer Curtis Braschler	77
Tobacco Mechanization and Potential Out-Migration Leon B. Perkinson Dale M. Hoover	83
An Examination of the Trend in Industrial Dispersion in Oklahoma from 1963 through 1974 M. Gale Blalock Gerald A. Doeksen	89
Canonical Correlation Analysis of Selected Demographic and Health Personnel Variables James W. Dunn Gerald A. Doeksen	95
Determining the Economic Feasibility of Public Recreation Developments at Beaver Lake, Arkansas Robert N. Shulstad Thomas G. Sawyer	101

Spatial and Temporal Water Allocation in the Kissimmee River Basin John E. Reynolds J. Richard Conner	107
Prediction of Dry-Land Crop Yields Using Rainfall Hovav Talpaz Chang Hao Chun C. Robert Taylor	115
A Dry Matter Quality Approach to Planning Forage-Beef Systems Kim B. Anderson Odell L. Walker	123
Boll Weevil Control Strategies: Regional Benefits and Costs C. Robert Taylor Ronald D. Lacewell	129
Water Price Responsiveness and Administrative Regulation—The Florida Example Gary D. Lynne	137
Maximum Economic Yield and Resource Allocation in the Spiny Lobster Industry Joel S. Williams Fred J. Prochaska	145
A Production Function for Florida Foliage Nurseries from Time-Series and Cross-Section Data Dan L. Gunter Robert D. Emerson	151
Supply Response by Traditional and Commercial Producers of Basic Grains in LDCs Jose Alvarez Chris O. Andrew	157
An Analysis of Optimal Farm Capital Structure Wesley N. Musser Fred C. White John C. McKissick	163
Income Tax Effects on Beef Cow Replacement Strategy Ronald D. Kay Edward Rister	169
Demand and Supply of Vegetable Oil Products in the United States: A Short-Run Analysis R. McFall Lamm, Jr.	173
An Analysis of Delivery-Period Basis Determination for Live Cattle William Vollink Ronald Raikes	179
Factors Affecting Efficiency of Feeder Cattle Hedging in Kentucky Stephen L. O'Bryan Barry W. Bobst Joe T. Davis	185
Diversification of Regional Marketing Cooperatives Thomas L. Sporleder Robert A. Skinner	191
Grain Exports as a Source of Agricultural Instability James N. Trapp Stanley R. Thompson	197

COMMENTS AND REPLIES

Response—External Finance: A Necessary Component in Growth Projections for Southern Agriculture John B. Penson, Jr.	207
--	-----