rural development research at land-grant institutions in the south
FOREWORD

This inventory of rural development research being done at land-grant institutions in the South is based on information from research summaries of the Cooperative State Research Service of the U.S. Department of Agriculture. Projects included are limited to those classifiable as "rural development" according to USDA's four topical areas:

Community Facilities
People Building
Economic Development
Environmental Improvement

The major subfields of each of these major areas are listed in the matrix on the following pages.

Under the provisions of the Rural Development Act of 1972, rural development research is to be action-oriented. Research in this inventory comes from many disciplines—economics, agriculture, behavioral sciences, for example. The goal of SRDC is to aid in synthesizing this research to establish a base of knowledge for rural development and to point to gaps in knowledge where research is needed.

The research abstracted here is also indexed in the CRIS computerized information system of USDA. Fuller descriptions of projects can be obtained by writing directly to researchers at their institutions; in some cases, final reports of results may be available. The Center does not have copies of reports for distribution.

Although this information is current as of January 1977, additions, deletions, and changes may be necessary. The Center will revise this publication as changes accumulate and more information becomes available. If you are aware of needed changes or additions, please inform the SRDC, Box 5406, Mississippi State, Mississippi 39762, so that this inventory can be kept current and useful.

William W. Linder
Director
Southern Rural Development Center

January 1977
# Matrix of Research Areas

## 1.00 Community Services and Facilities

<table>
<thead>
<tr>
<th>1.01</th>
<th>Health</th>
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<tr>
<td>1.02</td>
<td>Education and Training</td>
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<td>1.03</td>
<td>Water Systems</td>
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<td>1.05</td>
<td>Recreation</td>
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<td>1.06</td>
<td>Law Enforcement</td>
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<td>1.07</td>
<td>Fire Protection</td>
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<td>1.08</td>
<td>Transportation and Communication</td>
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<td>1.09</td>
<td>General Community Services</td>
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<td>1.10</td>
<td>Planning</td>
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<td>1.11</td>
<td>Housing, Equipment, and Furnishing</td>
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<td>1.12</td>
<td>Legal Institutions and Legal Services</td>
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<td>1.13</td>
<td>Financial Services</td>
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<td>1.14</td>
<td>Taxation</td>
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## 2.00 People Building

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<tr>
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<th>Human Development</th>
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<td>2.02</td>
<td>Welfare</td>
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<td>2.03</td>
<td>Health and Nutrition</td>
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<td>2.04</td>
<td>Demography</td>
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<td>2.05</td>
<td>Educational Program Effectiveness</td>
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<td>2.06</td>
<td>Household Decisions and Management</td>
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<td>2.07</td>
<td>Community Decision Making</td>
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<td>2.08</td>
<td>Level of Living and Quality of Life</td>
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<td>2.09</td>
<td>Public Policy</td>
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<tr>
<td>2.10</td>
<td>Sociological Aspects of Small Farming</td>
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<tr>
<td>2.11</td>
<td>Miscellaneous and Unclassified</td>
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</tbody>
</table>
3.00 ECONOMIC DEVELOPMENT

3.01 Holding and Attracting Industry
3.02 Plant Location
3.03 Income and Employment Effects of Rural Industry
3.04 Income and Employment Effects of Natural Resource Development
3.05 Alternative Uses of Natural Resources
3.06 Rural Recreation Enterprises
3.07 Technology for Small Farms
3.08 Enterprises for Small and Part-Time Farms
3.09 Economic Interactions in Rural Areas
3.10 Income and Employment Effects of Taxation and Regulations
3.11 Miscellaneous and Unclassified

4.00 ENVIRONMENTAL IMPROVEMENT

4.01 Conservation
4.02 Recreation
4.03 Forests and Wildlife
4.04 Land Use and Zoning
4.05 Beautification
4.06 Miscellaneous and Unclassified
ACTIVE PROJECTS
## RURAL DEVELOPMENT RESEARCH AT LAND-GRAINT INSTITUTIONS IN THE SOUTH

<table>
<thead>
<tr>
<th>MATRIX NUMBER</th>
<th>PROJECT NUMBER</th>
<th>(ACTIVE)</th>
<th>PROJECT TITLE</th>
<th>RESEARCHERS</th>
<th>PERFORMING ORGANIZATION</th>
<th>PERFORMANCE PERIOD</th>
<th>PUBLICATIONS</th>
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<td>Minor Area: Health</td>
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<tr>
<td>1.01.1</td>
<td></td>
<td></td>
<td>DESIGN AND CRITERIA FOR HEALTH PLANNING SYSTEMS IN RURAL AREAS. (1) Design a</td>
<td>Ivan Hanson</td>
<td>Department of Agricultural Economics</td>
<td>1/71-6/76</td>
<td>None reported.</td>
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<td></td>
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<td>systems model for local comprehensive health planning; (2) develop a method-</td>
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<td>Oklahoma State University</td>
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<td>ology for evaluating the systems planning model; and (3) evaluate the</td>
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<td>Stillwater, OK 74074</td>
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<td>effectiveness and utilization of alternative medical programs. (OKLA-1494)</td>
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<td>1.01.2</td>
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<td></td>
<td>AN ECONOMIC ANALYSIS OF HEALTH STATUS, NEEDS AND FACILITIES IN RURAL COUNTIES</td>
<td>Surendra P. Singh</td>
<td>Department of Rural Development</td>
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<td>None reported.</td>
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<td>OF WEST TENNESSEE. The major purpose of this two-phase study is to contribute</td>
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<td>Tennessee State University</td>
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<td>to the search for solutions to inadequate medical care in rural areas. The</td>
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<td>Nashville, TN 37203</td>
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<td>study will determine the health status and health problems of rural people</td>
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<td>including, frequently, kind and source of care received. The relationship of</td>
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<td>these factors to race, sex, education, family size and family income will be</td>
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<td>studied. The study will also assess family participation in medical programs</td>
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<td>and will determine how differences in the economic and social situations are</td>
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<td>related to their health needs and health care. (TN-516/1586)</td>
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<td>1.01.3</td>
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<td>ECONOMIC ANALYSIS FOR PLANNING IN THE OKLAHOMA HEALTH SECTOR. Develop a</td>
<td>R. E. Just</td>
<td>Oklahoma State University</td>
<td>7/73-6/78</td>
<td>None reported.</td>
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<td>programming model for comprehensive</td>
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<td>health planning, apply the programming model in Oklahoma health planning, develop and estimate a model of health manpower services and facility supply and demand in Oklahoma, and accordingly determine the variation in an efficient allocation of available health resources in Oklahoma from present to projected future time periods and from present to proposed institutional arrangements in the health sector. (OKLA-1552)</td>
<td>L. M. Busch University of Kentucky Lexington, KY 40506</td>
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<td>1.01.4</td>
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<td>HEALTH STATUS DETERMINANTS IN SELECTED KENTUCKY COUNTIES. Determine the impact of long-term changes in socioeconomic status and health service availability on health status; to delineate policy implications of findings. (KY-00820)</td>
<td>7/75-6/77 None reported.</td>
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1.02 Major Area: COMMUNITY SERVICES AND FACILITIES Minor Area: EDUCATION AND TRAINING

| 1.02.1 | ECONOMIES OF SCALE IN HIGH SCHOOL FACILITIES. Establish the relationship between size and type of school unit and the cost of providing high school instruction. (NC-13423) | R. A. King North Carolina State University Raleigh, NC 27607 |
|        | 2/74-2/77 None reported. |
| 1.02.2 | FUNDING AND RESOURCE ALLOCATION IN RURAL KENTUCKY SCHOOLS. Estimate the relationship between educational inputs and student performance as measured by | K. R. Anschel D. Holland University of Kentucky Lexington, KY 40506 |
|        | 1/68-6/77 R. F. Bieker and K. R. Anschel. Estimating Educational Production Functions for Rural High Schol... |
standardized tests, in selected schools in rural Kentucky. Determine the monetary costs of attaining alternative levels of educational performance. Determine the sources of variation in school revenues and the impacts of alternative funding levels on the demand for educational inputs. (KY-00077)

1.02.3 HIGH PLAINS MANPOWER DEVELOPMENT PROJECT. Determine manpower needs, availability, and potential sources. Develop an evaluation manpower recruiting and screening program. Provide liaison and coordination for manpower and personnel management training programs. Provide orientation and counseling for relocated workers and their families. Evaluate the social and economic impact of expanded employment on the community. (TX-06108-RI)

J. I. Mallett
R. D. Weddel
Texas A & M University
College Station, TX 77843

1.02.4 THE ROLE OF SCHOOLS IN RURAL DEVELOPMENT. Provide a synthesis of information available on all school districts in the state of Louisiana; develop a cooperative structure between educators and sociologists in both academic and nonacademic (e.g., State Department of Education) settings; investigate various methods of disseminating educational information in the state; examine the issue of equity, especially in comparisons of rural and urban school districts; and provide information which is relevant for those involved in rural development programs.

W. W. Falk
G. W. Ohlendorf
Department of Rural Sociology
Agricultural Experiment Station
Louisiana State University
Baton Rouge, LA 70803


J. I. Mallett 3/74-3/77 None reported.
R. D. Weddel

W. W. Falk 1/76-12/78 None reported.
G. W. Ohlendorf

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<th>PERFORMANCE PERIOD</th>
<th>PUBLICATIONS</th>
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<td>1.02.6</td>
<td>RURAL DEVELOPMENT CENTER (PHASE III). Conduct such Rural Development Extension Programs as will facilitate the collection,</td>
<td>L. W. Jones</td>
<td>Department of Behavioral Sciences</td>
<td>2/74-2/79</td>
<td>None reported.</td>
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</table>
interpretation, and dissemination of useful information and knowledge from research and other sources to such individuals, organizations, and agencies as will aid in achieving the purposes of Title V of the Act. Provide technical services and educational activities. Conduct research, investigations, and basic feasibility studies in any field of discipline which may develop principles, facts, scientific and technical knowledge, and new technology. Conduct small farm extension and research and development programs. Develop, sponsor, and/or operate such activities as will strengthen the capability of Tuskegee Institute and other participating institutions and agencies in dealing most effectively with the problems of rural development. (AL-X-PR-0005-BSI.I302)

1.02.7 VOCATIONAL AND EDUCATIONAL ASPIRATIONS OF RURAL SCHOOL CHILDREN AND THEIR MOTHERS. Determine changes in vocational and educational aspirations and expectations of children and their mothers and analyze relationships to personal and family factors. Predict which students are more likely to drop out or to remain in school based on personal and family factors. Obtain information about current situational factors and plans related to education and occupation. (TN-00405)

L. Southworth
H. Reed
University of Tennessee
Knoxville, TN 37916

7/74-6/77 None reported.

1.03 Major Area: COMMUNITY SERVICES AND FACILITIES Minor Area: WATER SYSTEMS

1.03.1 IDENTIFICATION AND EVALUATION OF POLLUTANTS IN RURAL DRINKING WATER SUPPLIES. Evaluate the quality of drinking water S. S. Sandhu W. J. Warren
South Carolina State

1.04 Major Area: COMMUNITY SERVICES AND FACILITIES Minor Area: WASTE DISPOSAL

1.04.1 DISPOSAL OF RURAL DOMESTIC WASTES. Investigate methods for improving both the performance and the aesthetics of septic tank disposal systems. (GA-01179) D. C. Davis 7/74-6/79
Department of Agricultural Engineering
Georgia Agricultural Experiment Station
Experiment, GA 30212

D. C. Davis. Similitude in Distribution Systems for Domestic Waste, University of Georgia Exp Sta, Paper No. 75-2067.

1.04.2 AN ECONOMIC EVALUATION OF SOLID WASTE DISPOSAL SYSTEMS. Identify the advantages and disadvantages of alternative disposal systems and establish general conditions necessary for a comparative advantage of each system. Provide information concerning the net costs of establishing and operating existing solid waste disposal systems. (AR-00812) R. N. Shulstad 10/74-12/76 None reported.
Department of Agricultural Economics and Rural Sociology
University of Arkansas
Fayetteville, AR 72701

1.04.3 RURAL COMMUNITY IMPROVEMENT THROUGH SELECTION OF SYSTEMS AND SITES FOR SEPTIC WASTE DISPOSAL. Improve the criteria for evaluating and predicting the effectiveness of individual home septic systems under various soil conditions; develop and test design modifications for improving septic system performance in impermeable soils and soils with high water tables; determine the fate of septic system effluent in different soils. (NC-13417) S. W. Buol 1/74-6/78 None reported.
B. L. Carlile
D. K. Cassel
Department of Soil Science
North Carolina State University
Raleigh, NC 27607

1.04.4 SOLID WASTE MANAGEMENT FOR NORTHWEST ALABAMA USING SANITARY LANDFILLS. Determine best locations for specified numbers of sanitary landfills. Determine W. E. Hardy, Jr. 4/73-6/76 C. L. Grissom and W. E. Hardy, Jr. Planning for Community Services in Rural Areas - A Regional
<table>
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<tr>
<th>PROJECT TITLE</th>
<th>RESEARCHERS</th>
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<td>most efficient routing of pick-up vehicles for each locational pattern. Determine total operating cost for each locational pattern and the minimum cost solid waste collection and disposal system for Northwest Alabama. Present a programmed procedure which can be used by other regions and/or states for solving solid waste location and routing problems. (AL-00363)</td>
<td>Auburn University Auburn, AL 36830</td>
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<tr>
<td>STUDY REFUSE SEPARATOR AND FLUIDIZED BED INCINERATOR FOR TREATMENT OF RURAL SOLID WASTES. Determine the sources of solid and liquid waste contaminants in the Prairie View and closely related nearby areas. Determine the size of the incinerator needed based on community needs and future expectations. Evaluate and monitor the comparative performance efficiencies of the Multi-Use Incinerator model with special emphasis directed to additional desired modifications. Determine if waste materials from feed lots can be handled effectively by this experimental unit. Determine the possibility of using incinerator residue as a source of plant nutritional supplement. Investigate the utilization of waste heat to supply power more efficiently to rural farm families and/or other small communities and developments. (TX-PR-0001-G-6078)</td>
<td>H. Sheely Prairie View A &amp; M College Prairie View, TX 77445</td>
</tr>
</tbody>
</table>

1.04.5


None reported.
1.05.1 CULTURAL AND RECREATIONAL FACILITIES IN TOWNS OF 10,000-18,000 POPULATION IN OKLAHOMA. Determine existing cultural and recreational facilities in towns with populations of 5,000-9,990 in the state of Oklahoma, and compare. Determine whether there seems to be a relationship between the availability of cultural and recreational facilities and motivation of students to attend college. Determine ways these communities might be helped by colleges, universities, and other agencies to develop more cultural and recreational programs. Determine whether there is a difference in use made of existing facilities by people of different races in the same community. (OK-X-PR-0004-375-E1)

E. R. Davis
K. H. Slothower
Murray State Agriculture College
Tishomingo, OK 73460

1.05.2 AN ECONOMIC ANALYSIS OF SELECTED OUTDOOR RECREATIONAL RESOURCES IN FLORIDA. Estimate the economic demand and supply of selected outdoor recreational resources in Florida. Determine the economic impacts of changes in environmental quality and public policies on outdoor recreation in Florida. (FL-AS-01623)

K. C. Gibbs
Department of Food and Resource Economics
University of Florida
Gainesville, FL 32601


1.05.3 METHODS FOR SELECTING, PLANNING, MANAGING AND EVALUATING RECREATIONAL SITES, PHASE 1. Determine roles of plant materials in the selection, development and management of recreational sites, evaluate the adequacy

C. L. Fountain
Department of Plant Science
North Carolina A & T State University
Greensboro, NC 27412

6/73-6/78 None reported.
of design concepts and management practices to meet preferences of selected groups, particularly the elderly, determine the impact of users on vegetative cover of recreational sites and develop reliable and easily applied methodology for post design evaluation of recreational developments. (NC-X-PR-0007-309-12)

1.06 Major Area: COMMUNITY SERVICES AND FACILITIES Minor Area: LAW ENFORCEMENT

No research resumes available.

1.07 Major Area: COMMUNITY SERVICES AND FACILITIES Minor Area: FIRE PROTECTION

1.07.1 INTENSIVE STUDY OF AN INCENDIARY FIRE PROBLEM: RETALIATORY FIRES. Determine the most crucial causal factors of a group of incendiary forest fires that are, in the opinion of the State Forestry Commission personnel, started in retaliation against the landowners and their policies. Provide research input into development, application and evaluation to the accumulation of knowledge necessary for development of a comprehensive incendiary fire problem analysis and prevention program selection scheme. (MS-0638)

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<th>RESEARCHERS</th>
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<th>PERCEPTIBLE PERIOD</th>
<th>PUBLICATIONS</th>
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<td>of design concepts and management practices to meet preferences of selected groups, particularly the elderly, determine the impact of users on vegetative cover of recreational sites and develop reliable and easily applied methodology for post design evaluation of recreational developments. (NC-X-PR-0007-309-12)</td>
<td>A. W. Baird</td>
<td>Department of Rural Sociology</td>
<td>7/74-6/76</td>
<td>None reported.</td>
</tr>
</tbody>
</table>
1.07.2  INTENSIVE STUDY OF AN INCENDIARY FIRE PROBLEM IN SOUTHWEST MISSISSIPPI. Produce a comprehensive analytic description of the most frequent casual/motive patterns related to a specific incendiary fire problem; construct casual/explanatory models which will be useful in development of a fire-prevention action program for the problem in area; contribute to the understanding of the nature of man-caused fire risk in general. (LA-BO-1736)

Q. A. L. Jenkins
Department of Rural Sociology
Louisiana State University
Baton Rouge, LA 70803
12/74-12/76 None reported.

1.08  Major Area: COMMUNITY SERVICES AND FACILITIES  Minor Area: TRANSPORTATION AND COMMUNICATION

1.08.1  EFFECT OF COMMUNICATION AND TRANSPORTATION ON UTILIZATION OF SERVICES BY LOW-INCOME RURAL PEOPLE. Determine effectiveness of programs that are designed to be used by low-income people in upgrading the quality of their life. Determine if techniques and methods used by state and federal agencies attract and reach the rural poor. This work intends to develop effective techniques, which will reach and motivate the rural poor. (SC-X-PR-0003-011)

M. R. Howie
K. Hanna
South Carolina State College
Orangeburg, SC 29115
3/73-3/78 None reported.

1.09  Major Area: COMMUNITY SERVICES AND FACILITIES  Minor Area: GENERAL COMMUNITY SERVICES

1.09.1  A COMMUNITY SERVICE PROVISION PLAN FOR SOUTHEAST OKLAHOMA. Develop solid waste disposal alternatives for the area; determine mobility patterns of the people in the area; estimate the community

M. S. Salkin
Department of Agricultural Economics
Oklahoma State University
Stillwater, OK 74074
7/74-6/79
M. S. Salkin and O. A. Cleveland. Migration and Migration Predictions: Necessary Ingredients to Regional Planning.
1.09.2 THE ECONOMICS OF INSTITUTIONAL ARRANGEMENTS FOR Viable RURAL COMMUNITIES IN THE GREAT PLAINS. Evaluate the effectiveness and costs of providing selected services and facilities in the Great Plains. Determine present availability and adequacy in selected areas. Categorize elements which reflect quality of selected services and facilities. Relate the costs of specified quality of services and facilities and the characteristics of the populations served (size, density, age, distribution, etc.). (TX-03026)

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<tr>
<td></td>
<td></td>
<td>L. L. Jones</td>
<td>Department of Agricultural Economics</td>
<td>7/71-6/76</td>
<td>Proceedings, Western Agricultural Economics Association, Jan 1974, p 159.</td>
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<td></td>
<td></td>
<td>S. K. Reddy</td>
<td>Department of Rural Sociology</td>
<td>7/71-6/76</td>
<td>R. B. Brunn and L. L. Jones. Supply and Demand as Applied to Community Services, paper presented to the Workshop on Rural Service Delivery, College Station, TX, Aug 1974.</td>
</tr>
</tbody>
</table>

1.09.3 INSTITUTIONAL STRUCTURES FOR IMPROVING RURAL COMMUNITY SERVICES. Identify configurations of institutional structures which affect provision and delivery of community services. Define indices of adequacy of community services. Determine the existence and adequacy of community services provided in selected rural areas. Determine the relationship between the configuration of institutional structures and the existence and adequacy of community services. Identify policies, alternative patterns of organization and conditions for effective planning and coordination for the delivery of community services. (MS-4304)
1.09.4 PLANNING AND FINANCING PUBLIC SERVICES FOR RURAL COMMUNITIES. Estimate production functions for alternative types of public services and determine the relationship between facility size and output cost, population density, facility locations, transportation costs, and total costs in multicity areas and relate quality of public services provided in the areas to costs of the system. (FL-AS-01630)

E. T. Loehman
M. R. Langham
Department of Food and Resource Economics
University of Florida
Gainesville, FL 32601

10/72-6/77 None reported.

1.09.5 PUBLIC SERVICES AND ECONOMIC DEVELOPMENT IN SELECTED RURAL COMMUNITIES. Measure and explore the impact of community facilities and services, land use, and local tax base on economic development in selected communities in three counties in Alabama's Piedmont area. Determine extent to which public services are necessary for an economically viable community. Identify critical factors necessary for community success in attracting industry and in providing public services. (AL-01-0054)

H. A. Clonts, Jr.
Department of Agricultural Economics and Rural Sociology
Auburn University
Auburn, AL 36830

4/74-6/76 None reported.

1.10 Major Area: COMMUNITY SERVICES AND FACILITIES Minor Area: PLANNING

1.10.1 ANALYSIS FOR RURAL DEVELOPMENT PLANNING. Research in state planning includes: (a) projection of state economic variables such as employment, income, investment, and government revenue by year to 1985; (b) formulating alternative state development strategies and projecting levels of economic variables; (c) developing parameters of the state economy

D. F. Schreiner
G. A. Doeksen
Department of Agricultural Economics
Oklahoma State University
Stillwater, OK 74074

2/71-6/76

such as short- and long-run employment and income multipliers; and (d) establishing sensitivities on the state economic variables. Research in multicounty regional planning includes: (a) projecting regional levels of employment, income, and population to 1985; (b) estimating demand for community services based upon results of (a); (c) estimating costs of selected community services for planning region; (d) estimating net fiscal impact on local governments from alternative strategies of regional development; and (e) developing parameters such as employment, income, water and solid waste multipliers. (OK-01492)

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<th>PERFORMING ORGANIZATION ADDRESS</th>
<th>PERFORMANCE PERIOD</th>
<th>PUBLICATIONS</th>
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<tr>
<td>1.10.2</td>
<td>AN EXPLORATORY STUDY OF SOCIOECONOMIC CONDITIONS IN SOUTH CAROLINA.</td>
<td>Determine the kind of data needed by private and public agencies to serve their clients. Obtain the kind of information from families in three-county area that public and private agents need to serve their clients. (SC-X-PR-0003-08)</td>
<td></td>
<td></td>
<td>R. L. Kurst</td>
<td>M. E. Akpan South Carolina State College Orangeburg, SC 29115</td>
<td>6/72-6/77</td>
<td>M. E. Akpan, S. Fitzer, and C. Ezeeami. An Exploratory Study of Socio-Economic Conditions in Selected Counties of South Carolina, South Carolina State College, Apr 1975.</td>
</tr>
</tbody>
</table>
.11.1 BASIC HUMAN NEEDS IN RURAL DEVELOPMENT: HOUSING. (1) Determine the fundamental needs in housing among the population of Claiborne County in Southwest Mississippi. (2) Identify the critical factors undergirding the status of needs in housing among the population of Claiborne County in Southwest Mississippi. (3) Develop recommendations based on pilot tests, for meeting the fundamental needs in housing among the population of Claiborne County in Southwest Mississippi. (MS-X-PR-0003-1973-4)

A. Stewart
Department of Agriculture
Alcorn State University
Lorman, MS 39096

5/73-5/78 None reported.

.11.2 MOBILE HOME SURVEY. To provide basic knowledge within the field of mobile home living. To obtain information about satisfactions concerning mobile home living. To develop material which could be used as a reference guide when selecting a mobile home. Emphasis will be given to: cost, mobility, satisfaction, interiors. (AR-836)

C. McKown
Department of Home Economics
University of Arkansas
Fayetteville, AR 72701

6/73-6/78 None reported.

.11.3 QUALITY HOUSING ENVIRONMENT FOR LOW-INCOME FAMILIES. Identify housing related aspirations, expectations, needs, and satisfactions of low-income families and examine limitations to the attainment of quality housing. Ascertain goals and housing conditions. Particular attention given to family life-cycle in relation to housing use and need. Emphasis will be

C. McKown
Department of Home Economics
University of Arkansas
Fayetteville, AR 72701

7/73-6/78

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<tbody>
<tr>
<td></td>
<td></td>
<td>B. J. Campbell</td>
<td>Department of Home Economics, University of Georgia, Athens, GA 30601</td>
<td>7/73-6/78</td>
<td>None reported.</td>
</tr>
<tr>
<td>1.11.4</td>
<td>QUALITY HOUSING ENVIRONMENT FOR LOW-INCOME FAMILIES. Identify housing related aspirations, expectations, needs, and satisfactions of low-income families and examine limitations to the attainment of quality housing. Formulate and evaluate innovative delivery systems in production, marketing, and financing in order to improve housing conditions. Formulate and evaluate innovative techniques and delivery systems for the transferral of housing information. Develop and determine acceptability and economic feasibility of innovative designs, materials and building techniques. (GA-00468)</td>
<td>T. M. Durrani</td>
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<td></td>
<td></td>
<td>N. H. Holmes</td>
<td>Department of Home Economics, University of North Carolina, Greensboro, NC 27412</td>
<td>7/73-6/78</td>
<td>None reported.</td>
</tr>
<tr>
<td>1.11.5</td>
<td>QUALITY HOUSING ENVIRONMENT FOR LOW-INCOME FAMILIES. Identify housing related aspirations, expectations, needs and satisfaction of low-income families and examine limitations to the attainment of quality housing. Formulate and evaluate innovative delivery systems in production, marketing, and financing in order to improve housing conditions. Formulate and evaluate innovative techniques and delivery systems for the transferral of housing information. (NC-11095)</td>
<td>R. A. King</td>
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</table>

1.11.6 QUALITY HOUSING ENVIRONMENT FOR LOW-INCOME FAMILIES. Identify housing related aspirations, expectations, needs and satisfactions of low-income families. Examine limitations to the attainment of quality housing. (OK-01570)

K. K. Stewart
Department of Home Economics
Oklahoma State University
Stillwater, OK 74074

4/74-6/76
None reported.

1.11.7 QUALITY HOUSING ENVIRONMENT FOR LOW-INCOME FAMILIES. Identify housing related aspirations, expectations, needs and satisfactions of low-income families and examine limitations to the attainment of quality housing; formulate and evaluate innovative techniques and delivery systems for the transferral of housing information; develop and determine the acceptability and economic feasibility of innovative designs including housing components, new combinations of materials, and building techniques, such as peripheral heating systems and modular panels. (TX-02951)

A. Stubbs
Consumer Research Center
Texas A & M University
College Station, TX 77843

7/73-6/78
None reported.

1.11.8 QUALITY HOUSING ENVIRONMENT FOR LOW-INCOME FAMILIES. Identify housing related aspirations, expectations, needs and satisfactions of low-income families and examine limitations to the attainment of quality housing. Formulate and evaluate innovative delivery systems in production, marketing, and financing in order to improve housing conditions. Develop and determine the acceptability and economic feasibility of innovative designs including housing components, new combinations of materials, and building techniques, such as peripheral heating systems and modular panels. (VA-0626215)

J. E. Hackett
H. T. Hurst
J. E. Montgomery
Environmental & Urban Systems
Virginia Polytechnic Institute & State University
Blacksburg, VA 24061

7/73-6/78

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<th>PERFORMING ORGANIZATION</th>
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1.12 Major Area: COMMUNITY SERVICES AND FACILITIES Minor Area: LEGAL INSTITUTIONS AND LEGAL SERVICES

No research resumes available.

1.13 Major Area: COMMUNITY SERVICES AND FACILITIES Minor Area: FINANCIAL SERVICES

No research resumes available.

1.14 Major Area: COMMUNITY SERVICES AND FACILITIES Minor Area: TAXATION

No research resumes available.
No research resumes available.
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<tr>
<th>MATRIX NUMBER</th>
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<th>PERFORMANCE PERIOD</th>
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</table>
2.01.2 DEVELOPMENT OF HUMAN RESOURCE POTENTIALS OF RURAL YOUTH IN MISSISSIPPI AND THEIR PATTERNS OF MOBILITY. Determine patterns of development, adjustment and mobility of rural youth relative to occupation, education, family development, and place of residence during the transition from adolescence to early adulthood. Determine factors influencing differentials in these patterns of development, adjustment and mobility among rural youth. Ascertain the rates and direction of historical change in the values, aspirations, and expectations of different types of rural youth relative to place of residence, education, job, and family. (MS-4006)

C. R. Sollie
Department of Rural Sociology
Mississippi State University
Mississippi State, MS 39762

8/72-6/76

None reported.

2.01.3 DEVELOPMENT OF HUMAN RESOURCE POTENTIALS OF RURAL YOUTH IN THE SOUTH AND THEIR PATTERNS OF MOBILITY. To follow the life adjustments of a sample of young people from the rural South who were studied earlier in regional project S-61. To determine patterns of development, adjustment, and mobility of rural youth relative to occupation, education, family development, and place of residence during the transition from adolescence to early adulthood. To

W. Falk
A. G. Cosby
W. P. Kuvlesky
Department of Rural Sociology
Texas A & M University
College Station, TX 77843

7/71-6/76


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<td></td>
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<td>determine factors influencing differentials in these patterns of development,</td>
<td>M. F. Lever. Place of Residence Projections of East Texas Rural Youth, Texas A &amp; M University,</td>
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<td>adjustment and mobility of rural youth. To ascertain the rates and direction</td>
<td>Dept of Rural Sociology, DIR 74-1.</td>
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<td></td>
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<td>of historical change in the values, aspirations, and expectations of different</td>
<td>A. C. Cosby et al. Youth Status Projections in the South: Structured Annotations of Research</td>
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<td></td>
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<td>types of rural youth relative to place of residence, education, job, and family.</td>
<td>Literature from Regional Research Project S-81, Texas A &amp; M University, Dept of Rural Sociology,</td>
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<td>(TX-02811)</td>
<td>DIR 74-8.</td>
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<td>2.01.4</td>
<td></td>
<td>ECONOMIC DEVELOPMENT OF GEORGIA COUNTIES LEVEL OF RURALNESS. Develop a</td>
<td>B. J. Smith</td>
<td>Department of Agricultural</td>
<td>7/73-6/76</td>
<td>D. W. Parvin, Jr., and B. J. Smith. An Estimate of the Relative Rurality of Mississippi Counties,</td>
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<td></td>
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<td>satisfactory definition and quantitative measure of rurality which conforms to</td>
<td>Economics</td>
<td>Georgia Agricultural Experiment</td>
<td></td>
<td>Mississippi State University Staff Series Paper No. 11, June 1974.</td>
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<td>commonly held qualitative notions of what differentiates rural from urban</td>
<td>Station</td>
<td>Experiment, GA 30212</td>
<td></td>
<td>B. J. Smith and D. W. Parvin, Jr. Employment and Income Characteristics of Georgia Counties, 1940-1970,</td>
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<td>casual variables, ascertain the extent to which level of ruralness is related</td>
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<td>to economic well-being and determine whether the casual variables or their</td>
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<td>effects differ between rural and urban areas. (GA-01178)</td>
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<td>2.01.5</td>
<td></td>
<td>ECONOMIC IMPLICATIONS OF MIGRATION FOR EASTERN KENTUCKY. Examine migration</td>
<td>K. Anschel</td>
<td></td>
<td>7/72-6/77</td>
<td>B. J. Deaton and K. R. Anschel. Migration and Return Migration: A New</td>
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<td>process for selectivity of out-migration</td>
<td>E. Bordeaux</td>
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<td></td>
<td></td>
<td>E. Smith</td>
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and return migration with respect to age, education, sex, occupational skills, and incomes in eastern Kentucky. Measure private costs and returns to individual groups of migrants and return migrants, respectively, of migration and return migration and analyze these returns with respect to age, education, training, and socioeconomic background of the migrant. Measure costs and returns to public account attributable to out-migration and return migration. Estimate probable effect of changes in population composition resulting from migration on aggregate and per capita community income. (KY-00093)

2.01.6 EFFECTS OF FAMILY ORIENTATION UPON PERSONAL CHARACTERISTICS OF COLLEGE FRESHMEN. Determine if there are common personal characteristics among children of a single pattern of family orientation which evolve as a result of the various patterns of orientation. (AR-X-45-2060)

2.01.7 AN EXPERIMENT IN EARLY CHILDHOOD EDUCATION IN A RURAL SETTING. Determine effectiveness of a broader environment and special educational devices upon learning activity. Determine effectiveness of a curriculum which is specifically designed for rural areas. Analyze formal characteristics of language, reading, and arithmetic that are relevant to young children in rural areas. (OK-X-PR-0004-274-5-2)

2.01.8 FACTORS OF DISADVANTAGEMENT AS RELATED TO SCHOOL PERFORMANCE. Determine if economic disadvantage affects school

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<td>performance. Determine if the educational level of parents has any effect on the school performance of disadvantaged children. Determine if family structure is a factor in the school performance of disadvantaged children. Determine if there are common personal traits among disadvantaged children. (AR-X-45-2110)</td>
<td>University of Arkansas Pine Bluff, AR 71601</td>
<td>M. R. Howie K. Hanna</td>
<td>South Carolina State College Orangeburg, SC 29117</td>
<td>8/75-2/80 None reported.</td>
</tr>
<tr>
<td>2.01.9</td>
<td>FOUNDATIONS FOR SELF-DETERMINATION. The primary goal of this research is to set up an experimental study in which powerlessness/alienation among rural people can be measured. A measurement instrument will be designed. An experimental and a control group situation will be set up wherein the powerlessness/alienation dynamic and communication strategies can be systematically tested and explored in terms of the growth of rural poor people toward identifying and seeking out solutions to their problems: (1) to assume responsibility for their own welfare, and (2) to give direction to agencies designated to provide assistance to them once they have defined their own goals and attendant problems.</td>
<td>W. W. Linder</td>
<td>Agricultural Experiment Station Mississippi State University Mississippi State, MS 39762</td>
<td>6/74-6/76 None reported.</td>
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<td>2.01.10</td>
<td>SYNTHESIS OF RESEARCH FINDINGS RELEVANT TO RURAL DEVELOPMENT. Develop synthesis of research findings relevant to rural development in selected areas for the purpose of: extracting principles or common findings for use in furthering</td>
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rural development efforts; identifying additional research needs; utilizing available knowledge through effective dissemination. Support the research mission of the Southern Rural Development Center by providing support for Center Associates and Functional Networks. (MS-4012)

2.01.11 WORK MOTIVATION OF CULTURALLY-DISADVANTAGED URBAN AND RURAL WORKERS IN TENNESSEE. Comparison of work motivation of culturally-disadvantaged urban and rural workers in west, middle, and east Tennessee by age, sex, ethnicity, formal education, income level, length of residence, occupational field and skill level, within selected dimensions of values, interests, perceptual abilities, intellectual functioning, adjustment, aspirations, risk-taking attitudes, personal history and physique somatotype. Comparison of the work motivation of the culturally-disadvantaged with industrial norms. Development of recommendations for the rehabilitation and fuller use of the human resources of the culturally-disadvantaged urban and rural workers in the three geographical regions of Tennessee. (TN-X-PR-0001-34566)

E. W. Bragg 3/72-3/77
Department of Home Economics
Tennessee A & I State University
Nashville, TN 37203


2.02 Major Area: PEOPLE BUILDING
Minor Area: WELFARE

2.02.1 COMPARATIVE ANALYSIS OF AGING POOR AND ECONOMICALLY SECURE IN JEFFERSON COUNTY. Determine what special problems of the aged are in Jefferson County in order to

P. Greenhouse 3/72-3/77
J. W. McCray
Department of Home Economics

None reported.
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C. G. Davis. The Poor Identified: Progress to Date, Food and Resource Economics Department, Staff Paper No. 1, Feb 1975.
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<tbody>
<tr>
<td><strong>2.03</strong> Major Area: PEOPLE BUILDING</td>
<td>E. Koh</td>
<td>5/73-5/78</td>
<td>None reported.</td>
</tr>
<tr>
<td>BASIC HUMAN NEEDS IN RURAL DEVELOPMENT: FOOD AND NUTRITION. Determine the fundamental needs in food among the population of Claiborne County in Southwest Mississippi. Identify the critical factors undergirding the status of needs in food among the population of Claiborne County. Develop recommendations based on pilot tests, for meeting the fundamental needs in food among the population of Claiborne County in Southwest Mississippi. (MS-X-PR-0003-1973-2)</td>
<td>Department of Home Economics</td>
<td>Alcorn State University</td>
<td>Lorman, MS 39096</td>
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<tr>
<td><strong>2.03.2</strong> DEVELOP A SET OF CORRELATED INDICES WHICH CAN BE USED IN THE STUDY OF SUBCLINICAL MALNUTRITION. Identify the educational achievement level of elementary school students through the use of standardized achievement and intelligence tests for purposes of correlating this data with nutritional data regarding these students. Establish a set of indices applicable for monitoring subclinical nutrition. (KY-X-PR-0001-15A)</td>
<td>L. Scott</td>
<td>3/73-3/78</td>
<td>None reported.</td>
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<td>M. M. Smith</td>
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<td></td>
<td>Department of Education</td>
<td>Kentucky State University</td>
<td>Frankfort, KY 40601</td>
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<tr>
<td><strong>2.03.3</strong> DIET RELATED TOXEMIA IN PREGNANCY. Investigate relationships of specific nutrients and nutrient combinations to etiology of toxemia of pregnancy in the rural low-income population of Alabama.</td>
<td>J. Y. Lu</td>
<td>6/72-6/77</td>
<td>None reported.</td>
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<td>R. A. Chung</td>
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<td>C. Williams</td>
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<td></td>
<td>D. Woulard</td>
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<td>K. Wilson</td>
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Determine correlative factors between dietary components and the incidence of toxemia of pregnancy. Analyze placentas for activities of enzymes related to carbohydrate metabolism and for nucleic acid composition. From results obtained in the above investigations, formulate and test diets that might reduce the incidence of toxemia of pregnancy and develop new food products and recipes. (AL-X-PR-0005-FSRC00)

2.03.4 DIET RELATED TOXEMIA IN PREGNANCY.
PHASE II. Determine correlative factors between dietary components and toxemia incidence during pregnancy. (AL-X-PR-0005-FSRC00L)

B. Tolbert 3/73-3/78 None reported.
T. A. Chung
Department of Home Economics
Tuskegee Institute
Tuskegee, AL 36088

2.03.5 EATING HABITS AND NUTRITIONAL STATUS OF THE TEENS IN KENTUCKY. Identify food habits, the kind and extent of malnutrition among one of the vulnerable groups - teenagers. Compare the nutritional intake and food behavior of married teenagers to single teens of corresponding age group. Relate biochemical findings and sociodemographic factors to food intake, anthropometric and clinical observation. (KY-X-PR-0001-19A)

O. M. Cheaney 3/73-3/78 None reported.
C. J. Lee
Department of Home Economics
Kentucky State University
Frankfort, KY 40601

2.03.6 EFFECTS OF SUBCLINICAL MALNUTRITION ON ADOLESCENT LIFE STYLES IN A RURAL POPULATION. Carry out a large pretest or pilot study to identify a representative random sample of the adolescent life styles and cross effects upon subclinical malnutrition in a rural population of the Commonwealth of Kentucky within the counties of Anderson, Franklin, Henry, Owen, Scott,
2.03.9  FOOD CHOICES AND NUTRITIONAL HEALTH OF
THE OLDER AGE GROUP. Identify potential
for modification of food choices and food
programs to improve nutritional health.
Contribute to refined methods of measur-
ing nutritional status in relation to
variations among individuals. Correlate
food choices with nutritional status of
individuals in selected population
groups with emphasis on age 60 or over.
(TX-X-PR-0002-G-1967)

F. M. Byrd  4/72-4/77  None reported.
Cooperative Research
Center
Prairie View A & M College
Prairie View, TX  77445

2.03.10  HEALTH-CARE DELIVERY SERVICES IN RURAL
TEXAS. Evaluate current health facili-
ties: doctor, nurse, and hospital serv-
ices, nursing homes, and health services
equipments in rural areas. Determine
the health problems existing in rural
areas, including age composition and past
health care received. Determine the cost
of medical services to the rural popula-
tion. Assess family participation in
medical programs: public, Medicaid,
private health insurance, and other
health insurance programs. Determine the
factors that influence the attraction of
medical personnel to rural areas.
(TX-X-PR-0002-G-6076)

M. Soliman  3/73-3/78  Attitudes and Problems of
Prairie View A & M College
Food Stamp Participants,
Prairie View, TX  77445

2.03.11  HIGHLY STRUCTURAL COMPLEXES IN FOODS AND
BODY TISSUES AND THEIR ROLES IN CARDIO-
VASCULAR PROBLEMS. To extend the base
of information to assess improved bio-
chemical parameters in the understanding
of glucogenic and lipogenic effects of
various dietary carbohydrates in cardio-
vascular problems as associated with sub-
clinical malnutrition. (KY-X-PR-0001-14C)

I. Ahmad  6/75-6/80  None reported.
J. C. Letton
University of Kentucky
Lexington, KY  40506
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<tr>
<td>2.03.12 IDENTIFICATION OF SUBCLINICAL MALNUTRITION. Expand the current research project to include additional families in a six county area. (KY-00116-15-41)</td>
<td>W. J. Fleming</td>
<td>Kentucky State University</td>
<td>6/71-6/76</td>
<td>None reported.</td>
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<td>O. M. Cheaney</td>
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<td>C. Lee</td>
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<td>2.03.13 IDENTIFICATION OF SUBCLINICAL MALNUTRITION ASSOCIATED WITH MICROELEMENTS. Determine the ultrastructural manifestations of microelements, iron, zinc, and copper and their interrelationships. Identify and relate factors coincident to the nutritional state relative to rural development. (KY-X-PR-0001-12A)</td>
<td>M. M. Rahman</td>
<td>Kentucky State University</td>
<td>2/74-2/79</td>
<td>None reported.</td>
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<td></td>
<td>Department of Biology</td>
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<tr>
<td>2.03.14 IDENTIFICATION OF SUBCLINICAL MALNUTRITION ASSOCIATED WITH MICROELEMENTS TO ENHANCE RURAL DEVELOPMENT. A determination of ultrastructural manifestations of microelements, iron, zinc, and copper and their interrelationships. (KY-X-PR-0001-12B)</td>
<td>M. M. Rahman</td>
<td>Kentucky State University</td>
<td>6/75-6/80</td>
<td>None reported.</td>
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<td>Department of Biology</td>
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<td>2.03.15 IMPROVEMENT OF FOOD SAFETY AND CONSUMPTION IN RURAL, LOW-INCOME SOUTHSIDE VIRGINIA. Determine the situation with respect to food safety and consumption in rural homes, retail food stores, and small food establishments, and develop and evaluate methods for improvement. (VA-X-PR-0002-111779)</td>
<td>M. N. Jordan</td>
<td>Virginia State College</td>
<td>4/72-4/77</td>
<td>None reported.</td>
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</table>
2.03.16 IMPROVEMENT OF THE NUTRITION OF TEENAGERS IN SELECTED COUNTIES OF NORTH FLORIDA. Determine meal patterns and nutrient intakes of teenagers in selected counties of north Florida relative to race, income, education of parents, and previous nutrition knowledge. Develop techniques of improving the nutrient intakes of large numbers of teenagers, taking into account their cultural and social needs as well as the most prevalent nutrition deficiencies of the region. (FL-X-PR-0004-4733)

J. M. Axelsson
Department of Agriculture and Home Economics
Florida A & M University
Tallahassee, FL 32307

B. R. McClendon

5/73-5/78
None reported.

2.03.17 INCOME AND EXPENDITURE PATTERNS FOR A GROUP OF SELECT COUNTIES IN KENTUCKY. Identify economic and noneconomic factors affecting food-consumption pattern and relate them with nutritional status of selected counties in the state of Kentucky. Correlation between the factors identified will be tested in low and middle income groups with ethnic diversity. Use of food stamps will probably be a variable. Estimate the amount of food subsidy required to improve the quality and quantity of diet of the poor people and evaluate the adequacy of current programs. (KY-X-PR-0001-13A)

D. S. Lee
Department of Business
Kentucky State University
Frankfort, KY 40601

4/73-4/78
None reported.

2.03.18 LEVELS OF NUTRITION HEALTH IN RURAL EASTERN NORTH CAROLINA. Determine the level of nutrition for school children in terms of anthropometric and dietary indices of nutritional health. Evaluate these findings in the light of currently accepted disease patterns of malnutrition. (NC-00307-63-B)

S. N. Ganapathy
Department of Home Economics
North Carolina A & T State University
Greensboro, NC 27412

6/71-6/76
None reported.
<table>
<thead>
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<th>PROJECT TITLE</th>
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<tr>
<td>2.03.19 MONITORING SUBCLINICAL MALNUTRITION: DYNAMIC SURVEY AND NUTRITIONAL HEALTH. To finalize assessments of potential correlates in subclinical malnutrition for a selected rural population. To extend the information on modular assessment of factors and status with respect to nutritional health. (KY-X-PR-0001-19-2)</td>
<td>M. Ruffin Department of Home Economics Kentucky State University Frankfort, KY 40601</td>
<td>6/75-6/80</td>
<td>None reported.</td>
<td></td>
</tr>
<tr>
<td>2.03.20 MONITORING SUBCLINICAL MALNUTRITION TO ENHANCE RURAL DEVELOPMENT: BUSINESS AND ECONOMICS. Develop a system approach for routine monitoring of subclinical malnutrition in rural populations. Identify and relate factors coincident to the nutritional state relative to rural development. (KY-X-PR-0001-13)</td>
<td>G. T. Riddel Department of Economics Kentucky State University Frankfort, KY 40601</td>
<td>4/72-4/77</td>
<td>None reported.</td>
<td></td>
</tr>
<tr>
<td>2.03.21 MONITORING SUBCLINICAL MALNUTRITION TO ENHANCE RURAL DEVELOPMENT: CHEMISTRY. Develop a system approach for routine monitoring of subclinical malnutrition in rural populations. Identify and relate factors coincident to the nutritional state relative to rural development. (KY-X-PR-0001-14)</td>
<td>J. C. Letton  I. Ahmad Department of Chemistry Kentucky State University Frankfort, KY 40601</td>
<td>5/72-5/77</td>
<td>None reported.</td>
<td></td>
</tr>
<tr>
<td>2.03.22 MONITORING SUBCLINICAL MALNUTRITION TO ENHANCE RURAL DEVELOPMENT. Development of biochemical parameters for subclinical malnutrition. Subclinical manifestations of vitamin E excess of deficiency, its relationship to glucogenic and lipogenic effects in the development of cardiovascular diseases associated with subclinical</td>
<td>J. C. Letton  I. Ahmad Department of Chemistry Kentucky State University Frankfort, KY 40601</td>
<td>3/73-3/78</td>
<td>None reported.</td>
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</table>
Malnutrition and also significance of age and genetic differences. Development of more sensitive bioassay techniques. (KY-X-PR-0001-14A)

2.03.23 MONITORING SUBCLINICAL MALNUTRITION TO ENHANCE RURAL DEVELOPMENT. The development of biochemical parameters to study subclinical malnutrition to enhance rural development. Determination of subclinical manifestation of vitamin E deficiency, its interrelationship to the degree of unsaturation in fatty acids and its role on the transport of various glucosides. (KY-X-PR-0001-14B)

I. Ahmad
J. C. Letton
Department of Chemistry
Kentucky State University
Frankfort, KY 40601

2/74-2/79 None reported.

2.03.24 MONITORING SUBCLINICAL MALNUTRITION TO ENHANCE RURAL DEVELOPMENT: PSYCHOLOGY. Develop a system approach for routine monitoring of subclinical malnutrition in rural populations. Identify and relate factors coincident to the nutritional state relative to rural development. (KY-X-PR-0001-15)

L. P. Scott
Z. L. Gilbert
Department of Physiology
Kentucky State University
Frankfort, KY 40601

5/72-5/77 None reported.

2.03.25 MONITORING SUBCLINICAL MALNUTRITION: SOCIOECONOMIC VARIABLES. To extend the information base on assessments of factors and status with respect to human nutrition. Information on the effect of added food purchasing power of families participating in the food stamp program will be studied. (KY-X-PR-0001-13C)

D. S. Lee
J. Sokoloff
Kentucky State University
Frankfort, KY 40601

6/75-6/80 None reported.

2.03.26 MONITORING SUBCLINICAL MALNUTRITION: SOCIOLOGICAL INDICATORS. To finalize assessments of potential correlates in subclinical malnutrition for a selected rural population, to extend the

T. Boggs
A. W. Wright
Department of Sociology
Kentucky State University
Frankfort, KY 40601

6/75-6/80 None reported.
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<th>MATRIX NUMBER</th>
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<td>information base on assessment of factors to monitoring human nutrition. (KY-X-PR-0001-24C)</td>
<td>L. Scott</td>
<td>Department of Education</td>
<td>2/74-2/79</td>
<td>None reported.</td>
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<tr>
<td>2.03.27</td>
<td>MONITORING SUBCLINICAL MALNUTRITION: A TESTING PROGRAM OF THIRD AND FOURTH GRADES. Obtain intelligence, personality, achievement, and academic data on a sample of second and third grade students and to relate these factors to nutritional state relative to rural development. (KY-X-PR-0001-15B)</td>
<td>Z. Gilbert</td>
<td>Kentucky State University</td>
<td>2/74-2/79</td>
<td>None reported.</td>
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<tr>
<td></td>
<td>NUTRITIONAL STATUS OF LOW-INCOME FAMILIES IN FOUR TENNESSEE COUNTIES. Study local food habits, attitudes, likes and dislikes; methods of food procurement (home grown, food stamps, commodity, and supplementary foods), buying practices, and cost of food stuffs; and the extent to which each commodity or supplementary food or food purchased with food stamps is incorporated into the family nutrition program including meal planning. Determine the possible food intake and nutritive value of diet consumed for two seasons during the year (spring and fall) and the nutritional status of selected family members by biochemical methods. (TN-X-PR-0004-34536)</td>
<td>O. L. Adams</td>
<td>Department of Extension Education</td>
<td>2/72-2/77</td>
<td>None reported.</td>
</tr>
<tr>
<td>2.03.28</td>
<td>NUTRITIONAL STATUS OF RURAL PEOPLE IN HAMPTON COUNTY AND INFLUENCE OF NUTRITION EDUCATION. Use nutritional survey techniques to define the nutritional</td>
<td>K. Mathur</td>
<td>South Carolina State College</td>
<td>4/72-4/77</td>
<td>None reported.</td>
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<td></td>
<td></td>
<td>Orangeburg, SC</td>
<td>29115</td>
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</table>
needs of low-income rural people in Hampton County and evaluate the effectiveness of the Expanded Food Nutrition Education Program of the Cooperative State Extension Service in improving their nutritional status. (SC-X-PR-0001-1)

2.03.30 NUTRITIONAL STATUS STUDIES OF ADOLESCENT GIRLS IN SELECTED AREA OF SOUTH CAROLINA. Determine the nutritional status of a group of pregnant adolescents using both the dietary survey method and biochemical analyses; identify nutritional problems in these subjects; provide appropriate nutrition education for the subjects; and evaluate the effects of the nutrition education program on food habits of the subjects. (SC-00005)

M. M. Abernathy
South Carolina State College
Orangeburg, SC 29115
6/71-6/76 None reported.

2.03.31 OCCUPATIONAL HAZARDS IN AGRICULTURE AND RURAL INDUSTRY. Determine size of losses in agriculture because of accidental injury; risk of injury in agriculture and related industry as compared to other occupations; if costs (i.e., losses) are reflected in market prices of labor and the product; methods by which risks of injury can be reduced in agricultural industry; and if industries in rural areas using agricultural work force experience higher rates than similar industry in urban areas. (NC-X-PR-0001-309-07)

R. Robbins
Department of Economics
University of North Carolina
Greensboro, NC 27412
5/72-5/77 None reported.

2.03.32 PARASITES AND PARASITISM AMONG POOR INDIGENOUS PEOPLE OF RURAL LOUISIANA. Investigate parasites of economic and health importance to farmers and their farm animals and products. Study the bionomics of these parasites and the way humans and animals are infected. (NC-X-PR-0001-309-07)

F. A. Christian
Department of Biological Sciences
Southern University
Baton Rouge, LA 70813
1/72-1/77 None reported.
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<th>PROJECT TITLE</th>
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<th>PERFORMING ORGANIZATION</th>
<th>PERFORMANCE PERIOD</th>
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<td>of these parasites and some aspects of the host-parasite relationships. Investigate zoonoses and the possible roles of animal reservoirs in the epidemiology of disease-causing parasites in these rural areas. (LA-X-PR-0002-8-15-0)</td>
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<tr>
<td>2.03.33 PATTERNS OF FOOD INTAKE AND NUTRITIONAL HEALTH OF GIRLS. Correlate food choices with nutritional health of girls 9-12 years of age; and assess the impact of economic level and ethnic background on food choices with nutritional health of girls 9-12 years of age. (AL-341)</td>
<td>E. Y. Davis</td>
<td>Home Economics Research</td>
<td>1/72-6/77</td>
<td>None reported.</td>
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<td>Alabama Agricultural Experiment Station</td>
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<td>Auburn, AL 36830</td>
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<tr>
<td>2.03.34 PATTERNS OF FOOD INTAKE AND NUTRITIONAL HEALTH OF GIRLS. Correlate food choices with nutritional health of girls 9-12 years old; and assess the impact of economic level and ethnic background on food choices with nutritional health of girls 9-12 years old. (AR-804(S-87))</td>
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<td></td>
<td>None reported.</td>
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<td>2.03.35 POLYSTRUCTURAL COMPLEXES IN FOODS AND BODY TISSUES AND THEIR ROLE IN CARDIOVASCULAR PROBLEMS, PHASE III. Abstract not provided. (KY-X-PR-0001-14C)</td>
<td>I. Ahmad</td>
<td>Department of Chemistry</td>
<td>5/75-5/80</td>
<td>None reported.</td>
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<td>Kentucky State University</td>
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<td>Frankfort, KY 40601</td>
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<td>2.03.36 STATISTICAL INTERRELATIONS AMONG FACTORS ACCOMPANYING SUBCLINICAL MALNUTRITION. Consolidate multidisciplinary findings for a modular design to routinely assess subclinical malnutrition. (KY-X-PR-0001-16C)</td>
<td>W. Fleming</td>
<td>C. Lockyer</td>
<td>6/75-6/80</td>
<td>None reported.</td>
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<td>Kentucky State University</td>
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<td>Frankfort, KY 40601</td>
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</table>
2.03.37 A STUDY OF FAMILY PLANNING OF LOW-INCOME FAMILIES IN SMALL TOWNS OF LOUISIANA. Investigate the need for family planning among rural low income families. Appraise the awareness of income limitations and its relationship to the size of the family. Know the attitudes toward and preferences of contraception. Recommend to the state and federal government and other funding agencies to establish a Family Planning Services Center in one of the rural areas. (LA-X-PR-0003-8-15-60)

K. Taj
Department of Home Economics
Southern University
Baton Rouge, LA 70813

5/73-5/78
None reported.

2.03.38 THERAPEUTIC, PHYSICAL, PSYCHOLOGICAL AND REHABILITATED RESPONSE TO CERTAIN ASPECTS OF HORTICULTURE. Investigate and experiment with the therapeutic aspects of plant material, floral design, and other horticultural enterprises to establish the significance of horticulture in general as a means of giving the handicapped and underprivileged an outlook to strive for better and more productive goals in life. (SC-00011)

T. L. Senn
A. R. Kingman
Department of Horticulture
Clemson University
Clemson, SC 29631

11/71-6/76
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<th>MATRIX NUMBER</th>
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<th>PUBLICATIONS</th>
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<tr>
<td>2.03.39</td>
<td>A STUDY OF FIRE HAZARDS IN HOMES OF LOW-INCOME FAMILIES OF SOUTHSIDE VIRGINIA. Apply the fire hazards in homes of low-income families of southside Virginia and develop guidelines to prevent accidental fires in the homes of low-income families. (VA-X-PR-0004-1771A)</td>
<td>A. J. Miller</td>
<td>Virginia State College Petersburg, VA 23803</td>
<td>5/73-5/78</td>
<td>None reported.</td>
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<td>2.04</td>
<td>Major Area: PEOPLE BUILDING</td>
<td>Minor Area: DEMOGRAPHY</td>
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<tr>
<td>2.04.1</td>
<td>ANALYSIS OF DEMOGRAPHIC DATA FOR THE HUMAN RESOURCES OF SOUTH CAROLINA. Obtain, process, tabulate, and synthesize available population data for the human resources of South Carolina residence categories and geographic divisions. Analysis will include past, present, and expected trends; decline and growth areas; and national and regional comparisons. U. S. Departments of Commerce and Agriculture consenses will comprise the prize data sources. A series of reports will be published. (SC-00970)</td>
<td>E. L. McLean</td>
<td>Department of Agricultural Economics and Rural Sociology South Carolina Agricultural Experiment Station Clemson University Clemson, SC 29631</td>
<td>7/71-6/76</td>
<td>None reported.</td>
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<tr>
<td>2.04.2</td>
<td>ANALYSIS OF POPULATION DISTRIBUTION EFFECTS IN NONMETROPOLITAN AREAS OF GEORGIA AND THE SOUTHEAST. Analyze shifts in the demographic composition of nonmetropolitan areas in Georgia and the southeast resulting from recent migration streams away from metropolitan areas, and develop a socioeconomic</td>
<td>J. D. Tarver</td>
<td>Department of Agricultural Economics University of Georgia Athens, GA 30601</td>
<td>8/74-6/77</td>
<td>None reported.</td>
</tr>
</tbody>
</table>
resource profile to assist community planners and other leaders in the design of optimum city growth centers. (GA-00500)

2.04.3 CHANGE IN THE NATURE, COMPOSITION, AND SOCIOECONOMIC CONDITIONS OF BLACK FAMILIES IN TEXAS. Describe patterns of family life among black families in metropolitan areas, assess level of living among these families at various stages of the family life cycle, and evaluate trends and conditions emerging from analysis in reference to comparable groups of nonwhite families. (TX-X-PR-0002-G-1968)

W. P. Kuvlesky
Prairie View A & M College
Prairie View, TX 77445

4/72-4/77

None reported.

2.04.4 DISTRIBUTION, COMPOSITION, AND MAJOR DEMOGRAPHIC PROCESS OF POPULATION. Supply population, housing, agricultural, and manufacturing data for the using public (farm operators, businessmen, community leaders, government officials and policy makers). Publish reports in forms usable by the general public. Consult and fill requests for data by phone, letters, and personal discussions. Provide support data for related social and economic (not population) research, demographic research, and analysis. Describe, analyze, and interpret trends in size, growth, and distribution of population and its social and economic aspects. Investigate and analyze factors related to the components of population change—migration, mortality, and fertility. Analyze demographic processes and important and emerging patterns of population trends. (MS-4004)

M. El-Attar
E. S. Bryant
Department of Sociology
and Anthropology
Mississippi State University
Mississippi State, MS 39762

9/71-6/76


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<th>PROJECT TITLE</th>
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<th>PERFORMING ORGANIZATION ADDRESS</th>
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<th>PUBLICATIONS</th>
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</table>
2.04.5 AN EVALUATION OF RURAL ECONOMIC GROWTH IN A CHANGING ECONOMY. Ascertain rural economic structure of geographic areas of Georgia designated as State Economic Areas of UNITED STATES CENSUS OF AGRICULTURE, U. S. Department of Commerce, Bureau of the Census. Evaluate both farm and off-farm labor supplied by the farm family. Discover the interrelationship between the farms and nonfarm economies. Evaluate the prospects for decreasing the out-migration of people from rural areas. Continue movement toward the development of rural economic growth parameters. Ascertain growth pattern likely to guide economic growth and development in rural areas. (CA-01174)

W. W. Harper 7/73-6/76 None reported.
Department of Agricultural Economics
Georgia Agricultural Experiment Station
Experiment, GA 30212

2.04.6 FISCAL STRUCTURE, RURAL DEVELOPMENT, AND SPATIAL DISTRIBUTION OF METROPOLITAN POPULATIONS. Investigate determinants of spatial distribution of population and density among urban, suburban, and rural areas of North Carolina, the impact of alternative fiscal arrangements on land use, rural development, and urban growth and the relationships among population distribution and density and the supply and cost of public services in sparsely populated rural areas. (NC-13419)

Department of Economics
North Carolina State University
Raleigh, NC 27607

2.04.7 HUMAN RESOURCES IN RURAL AREAS OF WEST TENNESSEE. Collect, organize, and analyze socioeconomic data from west Tennessee counties that will be useful to those who develop programs to improve the economic well being of these rural areas. (TN-X-PR-0001-34556)

G. M. Telwar 3/72-3/77 None reported.
Department of Agricultural Education
Tennessee A & I State University
Nashville, TN 37203
<table>
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<th>MATRIX NUMBER</th>
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<th>PERFORMANCE PERIOD</th>
<th>PUBLICATIONS</th>
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<tbody>
<tr>
<td>2.04.9</td>
<td>MIGRATION PATTERNS OF THE TENNESSEE POPULATION. Tennessee has been experiencing a sharp loss of young adults, a rapid decline in the birth rate, and a slight in-migration. This study seeks to determine who leaves and who stays, the effects of leaving or staying, the areas of residence of out-migrants, factors associated with out-migration, and effect of employment opportunities. (TN-274)</td>
<td>F. O. Leuthold</td>
<td>Department of Agricultural Economics and Rural Sociology University of Tennessee Knoxville, TN 37616</td>
<td>12/67-</td>
<td>None reported.</td>
</tr>
<tr>
<td>2.04.10</td>
<td>PROBLEMS OF POPULATION DECLINE IN RURAL AREAS. Estimate effects of rural-urban migration on income to rural resources, personal income and its distribution and economic and demographic interactions; analyze actual and potential employment of displaced rural people in nonfarm employment by capital importation; evaluate money income as a measure of well-being among rural farm families, and to</td>
<td>B. L. Gardner</td>
<td>Department of Economics North Carolina State University Raleigh, NC 27607</td>
<td>2/71-1/76</td>
<td>B. L. Gardner. <em>Farm Population Decline and the Income of Rural Families</em>, American Journal of Agricultural Economics, 56(3), 1974, pp 606-606.</td>
</tr>
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</table>
develop a more comprehensive indicator of rural economic development. (NC-013231)

2.04.11 SOCIOECONOMIC DEVELOPMENT IN SOUTHWEST MISSISSIPPI. Investigate the major sources of income and analyze the level and distribution of both natural and human resources; identify the crucial socioeconomic variables restricting the economic development of the region; explore the possible alternative solutions and the optimal allocation of adjustment of resources; and prescribe the best course of action to take in order to achieve rapid income-welfare growth. (MS-X-PR-0003-1974-2)

P. Kau 6/74-6/78 None reported.
M. S. Dhaliwal
G. Sewell
Department of Social Science
Alcorn State University
Lorman, MS 39096

2.04.12 SOCIAL AND ECONOMIC INDICATORS FOR DEVELOPMENT OF NORTH CAROLINA. Identify, aggregate, disaggregate, and provide written guidelines for interpretation of critical pieces of data available from secondary sources that if available and interpreted will guide the decision maker in making sound decisions in regard to his area of responsibility. Develop a mechanism for the institutionalization of this data assembly and data interpretation system and devise a system of constant updating. (NC-09502)

T. N. Hobgood 5/74-6/76 None reported.
M. E. Voland
Department of Sociology and Anthropology
North Carolina State University
Raleigh, NC 27607

2.04.13 TENNESSEE RURAL CHANGE PERSPECTIVES. Develop a series of overview analyses about the socioeconomic trends, adjustment problems, opportunities, and assistance needs emerging in rural Tennessee--and their implications for specific categories of people, localities, and programs—as a perspective-giving aid to leaders, planners, and change-agents. (TN-00439)

D. W. Brown 7/75-6/78 None reported.
Department of Agricultural Economics and Rural Sociology
University of Tennessee
Knoxville, TN 37916
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<th>MATRIX NUMBER</th>
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<td>Minor Area: EDUCATIONAL PROGRAM EFFECTIVENESS</td>
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<tr>
<td>2.05.1</td>
<td>EFFECTS OF EDUCATION AND FOOD PROGRAMS UPON HEALTH AND LEVEL OF LIVING. Assess the effectiveness of nutrition and health education on the attitudes and practices of low-income rural parents. Assess the effectiveness of social-sensory stimulation of infants born to these parents. Assess the effectiveness of supplementary foods on the growth and development of these children. Determine the interrelationship between nutrition and social sensory stimulation of infants on their development. Study the manner in which nutrition and social-sensory stimulation interact. (VA-0616158)</td>
<td>S. J. Farrier</td>
<td>Management Housing and Family Development</td>
<td>2/71-6/76</td>
<td>None reported.</td>
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<td>J. Wentworth</td>
<td>VPI and State University</td>
<td>Blaeksburg, VA 24061</td>
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<tr>
<td>2.05.2</td>
<td>EFFECTS OF MANPOWER TRAINING ON RURAL DISADVANTAGED FAMILIES. Analyze and appraise the effects of manpower development and training on improving and upgrading the socioeconomic levels of rural disadvantaged residents of west Tennessee. Also determine the relationships between employment status and vocational, personal, and social adjustments of the rural disadvantaged. (TN-X-PR-0001-34916)</td>
<td>E. Witherspoon</td>
<td>Tennessee A &amp; I State University</td>
<td>9/73-3/78</td>
<td>None reported.</td>
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<tr>
<td>2.05.3</td>
<td>INFORMATION CONSUMPTION BY THE CLIENT SYSTEM AS A STRATEGY TO REDUCE RURAL POVERTY. The effect of information consumption by the client system on reducing the impact of rural poverty;</td>
<td>J. S. Dhillon</td>
<td>Department of Agriculture and Home Economics</td>
<td>Florida A &amp; M University</td>
<td>Tallahassee, FL 32307</td>
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identification of antecedent variables (personal and institutional) significantly associated with information consumption; classification of various types of information on the basis of consumption value; development of a model of optimum information for reducing the impact of rural poverty.

(FL-X-PR-0003-4248)

2.05.4 INSTITUTION BUILDING (PHASE I): PERCEPTION OF CONSTRAINTS AND INCENTIVES IN THE ACCEPTANCE OF NEW IDEAS AND ECONOMIC OPPORTUNITY PROGRAMS BY THE RURAL LOW INCOME FAMILIES. Identify constraints and incentives which affect the acceptance and adoption of new ideas and economic opportunity programs; find out the relationship of various demographic and social characteristics of the respondents with their perception of constraints and incentives; identify community variables which are significantly associated with the respondents' perception of constraints and incentives.

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<tr>
<th>Name</th>
<th>Institution</th>
<th>Date</th>
<th>Notes</th>
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<tbody>
<tr>
<td>J. S. Dhillon</td>
<td>Center for Community Development and Research Florida A &amp; M University Tallahassee, FL 32307</td>
<td>7/75-6/78</td>
<td>None reported.</td>
</tr>
</tbody>
</table>
2.06.2 INCOME AND EXPENDITURE PATTERNS FOR A GROUP OF SELECT COUNTIES IN KENTUCKY. Identify economic and noneconomic factors affecting food-consumption pattern and relate them with nutritional status of selected counties in the state of Kentucky. Correlation between the factors identified will be tested in low and middle income groups with ethnic diversity. Use of food stamps will probably be a variable. Estimate the amount of food subsidy required to improve the quality and quantity of diet of the poor people and evaluate the adequacy of current programs. (KY-X-PR-0001-13A)

D. S. Lee
Department of Business
Kentucky State University
Frankfort, KY 40601
4/73-4/78

D. S. Lee and G. T. Ridgel
Income and Food Expenditure Patterns for a Selected Group of Families in Frankfort - Franklin County, Kentucky State University, Cooperative State Research Service, May 1974.

2.06.3 INSURANCE PRACTICES OF LOW-INCOME FAMILIES IN MISSISSIPPI. Determine the kinds, amount, and cost of insurance policies carried by low-income families. Determine how, when, and where low-income families pay for insurance and where policies are kept. (MS-4105)

P. T. Harris
Department of Home Economics
Mississippi State University
Mississippi State, MS 39762
5/74-4/76

None reported.

2.06.4 MANAGEMENT STYLES AND SELF ESTEEM LEVELS IN RURAL LOUISIANA FAMILIES AND HOMES. Evaluate quality of rural family life with a self-esteem measure; assess effects of employment status of wife, family mobility, family boundary characteristics, and decision making and task performance styles on self esteem; and interpret results in a family ecological systems framework. (LA-BO-1723)

C. L. Engbretson
Department of Home Economics
Louisiana State University
Baton Rouge, LA 70803
1/75-12/79

None reported.

2.06.5 NEEDS FOR CHILD CARE AND POTENTIAL FOR RURAL FAMILY AND COMMUNITY DEVELOPMENT. Assess provisions and needs for child

S. M. Shoffner
Department of Home Economics
7/74-6/77

None reported.
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<th>PROJECT TITLE</th>
<th>RESEARCHERS</th>
<th>PERFORMING ORGANIZATION</th>
<th>PERFORMANCE PERIOD</th>
<th>PUBLICATIONS</th>
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<td>PROJECT NUMBER</td>
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<tr>
<td>2.06.6</td>
<td>University of North Carolina</td>
<td>Greensboro, NC 27412</td>
<td>7/74-6/77</td>
<td>None reported.</td>
</tr>
<tr>
<td>NEEDS FOR CHILD CARE AND POTENTIAL FOR RURAL FAMILY AND COMMUNITY DEVELOPMENT.</td>
<td>K. S. Powell</td>
<td>Department of Home Economics</td>
<td>Winthrop College</td>
<td>Rock Hill, SC 29730</td>
</tr>
<tr>
<td>care ages 0-12 years in rural communities; identify activities open to parents conducive to promoting individual, family and rural development; determine how mother's released time resulting from use of child care services could contribute to participation in family development; and involve potential recipients of child care services in surveying resources for those services. (NC-11098)</td>
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<tr>
<td>2.06.7</td>
<td>M. Smith</td>
<td>Department of Home Economics</td>
<td>University of North Carolina</td>
<td>Greensboro, NC 27412</td>
</tr>
<tr>
<td>TEXTILES AND CLOTHING INFORMATION NEEDS OF LOW-INCOME FAMILIES IN NORTH CAROLINA.</td>
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<td>5/72-5/77</td>
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<td>Provide insights into clothing needs of the disadvantaged; obtain information on clothing owned by low-income families in North Carolina; find out what clothing</td>
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families would like to add to the wardrobe, and why; determine qualities in clothing valued most, and those valued least by low-income families; find out where and when low-income families make their clothing purchases; find out how knowledgeable families are in terms of clothing care and find out if low-income families are concerned about the flammability of textiles. (NC-X-PR-0003-309-07)

<table>
<thead>
<tr>
<th>2.07 Major Area: PEOPLE BUILDING</th>
<th>Minor Area: COMMUNITY DECISION MAKING</th>
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</thead>
</table>
| 2.07.1 DECISION OF PROFESSIONALS TO LOCATE IN RURAL AREAS. Identify the professional-occupational categories in which perceived shortages exist and develop information base that can be used by small community leadership to develop strategies and plans for alleviating the problem. (NC-13442) | M. M. Sawnney  
S. C. Mayo  
Department of Sociology and Anthropology  
North Carolina State University  
Raleigh, NC 27607 |
| 2.07.2 RURAL COMMUNITY PROBLEMS AND SOLUTIONS AS PERCEIVED BY INDIGENOUS LEADERS AND NON-LEADERS. Ascertain in selected rural communities in the state the needs and problems of the community as perceived by leaders and nonleaders in these communities. Determine what leaders and nonleaders think are the solutions to community problems. Determine community-focused sentiments and cohesiveness as related to community problems and problem-solving. (LA-X-PR-0001-8-15-19) | J. Moland  
J. H. Hope  
Southern University  
Baton Rouge, LA 70813 | 6/74-5/76  
None reported. |
| | 2/72-2/77  
None reported. |
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<th>PERFORMANCE PERIOD</th>
<th>PUBLICATIONS</th>
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<tr>
<td>2.08</td>
<td>Major Area: PEOPLE BUILDING</td>
<td>Minor Area: LEVEL OF LIVING AND QUALITY OF LIFE</td>
<td>C. A. Humphrey&lt;br&gt;A. L. Fisher&lt;br&gt;Langston University&lt;br&gt;Langston, OK 73050</td>
<td>4/72-4/77</td>
<td>None reported.</td>
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<tr>
<td>2.08.1</td>
<td>AN ANALYSIS OF THE SOCIOECONOMIC CHARACTERISTICS OF BLACK TOWNS IN OKLAHOMA. Identify and evaluate socioeconomic factors which determine class (i.e., occupation, income, education) and local supply and demand for labor. Determine role of social organizations in community development. Determine degree to which the community is self-sufficient. Determine potential for development of communities (i.e., job opportunities, education, housing). (OK-X-PR-0004-274-S-1)</td>
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<tr>
<td>2.08.2</td>
<td>COMMUNITY STRUCTURE AND QUALITY OF LIFE: MEASUREMENT AND ANALYSIS. Refine measures of quality of life and related variables for analysis and evaluation of major social and economic changes for past two decades in selected localities. Identify and interpret selected quality of life consequences of changes: regional integration; locality integration; policy decisions; population, ecological, and general socioeconomic characteristics. Provide information to decision makers on likely consequences of alternative policy approaches. (TX-02893-RI)</td>
<td>W. G. Howard&lt;br&gt;Department of Rural Sociology&lt;br&gt;Texas A &amp; M University&lt;br&gt;College Station, TX 77843</td>
<td></td>
<td>4/75-6/78</td>
<td>None reported.</td>
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<td>2.08.3</td>
<td>IMPROVING INCOME AND FAMILY LIVING OF LIMITED RESOURCE FARM FAMILIES. Assess the level of living of rural farm families. Obtain basic data on farm resources and farming systems. Obtain</td>
<td>R. C. Woodworth&lt;br&gt;Rural Development Center&lt;br&gt;Tennessee A &amp; I State University&lt;br&gt;Nashville, TN 37203</td>
<td></td>
<td>2/74-2/79</td>
<td>S. L. Comer. Resource Allocations for Maximizing Income on Limited Resource Farms in Giles County, Tennessee, unpublished</td>
</tr>
</tbody>
</table>
information and assess reasons for farming, alternatives, interest in nonfarm jobs and characteristics and aspirations of low-income farmers. Assess the adjustment potential of low-income farm families. (TN-X-PR-0006-35004)

2.08.4 INCOME INEQUALITY AND ITS RELATIONSHIP TO
COMMUNITY STRUCTURES AND COMMUNITY INTER-
ACTION IN NORTH ALABAMA. Determine variation and change, and other sources, in income inequality among 96 census county divisions (CCD) of north Alabama. Identify the major determinants and correlates of variation and change in income inequality with a focus on spatial concentrations of relative poor blacks and whites in rural and rural-urban communities. Foster an experimental social laboratory in selected communities. Publish and distribute statistical and strategy profiles of CCDs, locating the rural "relative poor" and identifying most promising paths and of the relative poor category. (AL-X-PR-0003-575)

2.08.5 LOUISIANA TITLE V PILOT PROGRAM FOR
LAFOURCHE AND TERREBONNE PARISHES. Improve the economic and social well-being of the residents in the two-parish area; provide current research information on alternative solutions to problems identified by the Cooperative Extension Service leadership and problem identification survey in each of the two parishes; determine the social, economic, and natural resource characteristics of the area; identify the existing organizations concerned with development of the area;
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<td>determine the impact of the leadership and problem identification study on inter-organizational linkages among the organizations concerned with development; and explore alternatives for maximizing income to low-income agricultural producers in the two-parish area. (LA-1685)</td>
<td>E. E. Brown</td>
<td>6/74-6/77</td>
<td>None reported.</td>
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<td></td>
<td>M. Mara</td>
<td>Department of Agricultural Economics</td>
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<td></td>
<td>University of Georgia</td>
<td>Athens, GA 30601</td>
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<tr>
<td>2.08.6 LOW-INCOME RESEARCH PROGRAM (TITLE V) RURAL DEVELOPMENT ACT. Determine incidence, characteristics, distribution, and major causes resulting in limited resource families. Determine types of assistance available by these families. Evaluate policies both public and private to alleviate the factors affecting limited resource families with regard to their distribution of benefits from the public and private sectors. (GA-0003-0580)</td>
<td>T. H. Klindt</td>
<td>7/73-6/76</td>
<td>None reported.</td>
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<td></td>
<td>Department of Agricultural Economics &amp; Rural Sociology</td>
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<td></td>
<td>University of Tennessee</td>
<td>Knoxville, TN 37916</td>
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<td>2.08.7 PILOT RURAL DEVELOPMENT PROGRAM IN FIVE COUNTIES, TENNESSEE (TITLE V RURAL DEVELOPMENT ACT OF 1972). Improve per capita income and quality of life of rural residents in the pilot counties. (TN-03305)</td>
<td>M. E. Walker, Jr.</td>
<td>5/72-5/77</td>
<td>None reported.</td>
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<td></td>
<td>Department of Agriculture</td>
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<td></td>
<td>Fort Valley State College</td>
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<td>Fort Valley, GA 31030</td>
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the Extension Service and other agencies to establish remediation programs.
(GA-X-PR-0004-72HR-01)

2.08.9 STUDY OF HUMAN AND NATURAL RESOURCES OF DISADVANTAGED PEOPLE OF SOUTHEAST ARKANSAS. Identify and locate farmers in each county with income below $3,500. Describe certain personal and family characteristics which limit the opportunity of adjustment in income. Locate and identify farms whose size will allow them to produce cotton, soybean, and rice; and those too small for this type of commercial crops. Develop small farm resource situation and farm programs utilizing production data to maximize farm income.
(AR-X-PR-0006-45-2120)

O. R. Holiday 2/73-2/78 None reported.
D. J. Houston
Department of Agriculture
University of Arkansas
Pine Bluff, AR 71601
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<tr>
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<tr>
<td>3.01</td>
<td>Major Area: ECONOMIC DEVELOPMENT</td>
<td>Minor Area: HOLDING AND ATTRACTING INDUSTRY</td>
<td>E. P. Roy</td>
<td>5/65-7/77</td>
<td>E. P. Roy and F. J. Bordelon. Markets and Prices</td>
<td>Louisiana State University, Baton Rouge, LA 70803</td>
<td>None reported.</td>
</tr>
<tr>
<td>3.01.1</td>
<td>RESOURCE REQUIREMENTS FOR VARIOUS PLANT SIZES IN AGRICULTURAL MARKETING AND SUPPLY INDUSTRIES. Provide benchmark information on the fixed and operating capital requirements for various sizes of plants in selected agricultural marketing, supply, and processing industries. Provide information on anticipated income, expenses, net margins and debt-repaying capability for various plant sizes in selected business management aspects of firms engaged in selected agricultural marketing, supply, and processing operations. (LA-BO-1227)</td>
<td>H. D. Traylor</td>
<td>Department of Agricultural Economics &amp; Agribusiness</td>
<td>Louisiana State University</td>
<td></td>
<td>E. P. Roy and F. J. Bordelon. Selected Shrimp and Seafood Statistics for Louisiana and the United States, AEA Information Series No. 33, Jan 1974.</td>
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</tr>
<tr>
<td>3.02</td>
<td>Major Area: ECONOMIC DEVELOPMENT</td>
<td>Minor Area: PLANT LOCATION</td>
<td>E. D. Smith</td>
<td>1/74-6/78</td>
<td>None reported.</td>
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<td>3.02.1</td>
<td>ECONOMIC, LOCATIONAL, AND INSTITUTIONAL FACTORS AFFECTING INDUSTRIAL PLANT LOCATION IN NONMETROPOLITAN AREAS. Determine the importance of selected characteristics of rural communities and their efforts to attract industry in explaining the location of industrial plants by size of employment and by types of industry among nonmetropolitan areas. Predict the probable success of various combinations and levels of direct and indirect inducements and socioeconomic environments in attracting industry to nonmetropolitan areas. (KY-00097)</td>
<td>Department of Agricultural Economics</td>
<td>University of Kentucky</td>
<td>Lexington, KY 40506</td>
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</table>
3.02.2 ECONOMIC, LOCATIONAL, AND INSTITUTIONAL FACTORS AFFECTING INDUSTRIAL PLANTS IN NONMETROPOLITAN AREAS. Determine the importance of selected characteristics of rural communities and their efforts to attract industry in explaining the location of industrial plants by size of employment and by type of industry among nonmetropolitan Tennessee communities. Predict the probable success of various combinations and levels of direct and indirect inducements and socioeconomic environments in attracting industry to nonmetropolitan Tennessee communities. (TN-00385)

B. J. Deaton
Department of Agricultural Economics & Rural Sociology
University of Tennessee
Knoxville, TN 37916

B. J. Deaton and D. Gunter

3.03 Major Area: ECONOMIC DEVELOPMENT

3.03.1 ADJUSTMENT POSSIBILITIES IN RURAL AREAS. Identify in rural areas present and potential strengths and limitations of the major sectors including farming, industry, education, health, housing, and government. Evaluate industries as to their potential for development and utilization of a community's resources. (VA-0200308)

R. G. Kline
Department of Agricultural Economics
VPI & State University
Blacksburg, VA 24061


3.03.2 AGRICULTURAL AND RURAL LABOR MARKETS. Determine the response in quality and quantity of agricultural labor to changes in economic incentives. Analyze alternative public policies having an impact on agricultural and rural labor market. Analyze alternative public policies affecting migrant labor, and

R. D. Emerson
Department of Food & Resource Economics
University of Florida
Gainesville, FL 32601

R. D. Emerson and L. Polopolus. Unemployment
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<th>MATRIX NUMBER</th>
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<th>PERFORMANCE PERIOD</th>
<th>PUBLICATIONS</th>
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<tr>
<td>3.03.3</td>
<td></td>
<td>ANALYSIS OF RURAL LABOR MARKET TRENDS, INSTITUTIONS AND POLICIES IN GEORGIA. Translate existing measures of under-employment into unemployment equivalents and other indexes of need, conduct, and attitudinal survey of Georgia farm people to determine work preferences, labor requirements, and the need for labor contracts, evaluate the importance of off-farm employment to farmers, and appraise public implications of farm labor situations and evaluate the role of rural institutions in achieving more effective use of manpower resources. (GA-00498)</td>
<td>L. L. Jones</td>
<td>Department of Agricultural Economics, Texas A &amp; M University, College Station, TX 77843</td>
<td></td>
<td>5/74-6/77</td>
<td>Some Perspectives on Rural Manpower Situations and Needs in the Southeast. Background paper and conference proceedings, conference of Southeastern Regional Manpower Advisory Committee, Gatlinburg, TN, May 1974.</td>
</tr>
<tr>
<td>3.03.4</td>
<td></td>
<td>AN EVALUATION OF ECONOMIC BENEFITS AND COSTS OF INDUSTRIALIZATION IN RURAL COMMUNITIES. Determine the level of industrialization program costs incurred by rural communities and the distribution of the burden of these costs among various sectors of the public. Estimate the level and distribution of the subsequent income and employment effects due to industrialization on residents of affected rural communities and areas. Finally, to determine the economic impact of industrialization on the public service systems of rural communities and areas and the distribution of the</td>
<td>J. P. Warren, et al. Cost of Land Subsidence Due to Groundwater Withdrawals, TR-57, Texas Water Resources Institute, Texas A &amp; M University, July 1974. L. L. Jones, et al. Economic Implications of Land Subsidence in the Houston-Baytown Area, proceedings of the Water for Texas Conference, Texas A &amp; M University, Sept 1974.</td>
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</table>
consequent costs among various categories of rural residents. (TX-06084)

3.03.5 FACTORS AFFECTING THE MARKETING OF WOOD HANDICRAFT PRODUCTS IN KENTUCKY. Determine the economic efficiency of present and alternative systems for production and marketing of wood handicrafts. Determine the feasibility of a vertically integrated production and marketing organization for wood handicrafts. Estimate the cost function (cost-output relationships) for wood handicraft firms. (KY-00096)

J. C. Redman
Department of Agricultural Economics
University of Kentucky
Lexington, KY 40506

2/73-12/77
None reported.

3.03.6 THE IMPACT OF INDUSTRIALIZATION ON THE ORGANIZATION AND DEVELOPMENT OF RURAL AREAS IN LOUISIANA. To conduct a comprehensive study of the impact of industrialization on rural community development and organization with reference to effects on occupational structure, development benefits and social costs, quality of life, farming and agricultural organization, population stability, community institutions and services, and attitudinal dispositions toward industry and toward community institutions.

T. J. Durant, Jr.
Department of Rural Sociology
Agricultural Experiment Station
Louisiana State University
Baton Rouge, LA 70803

1/76-12/78
None reported.
3.03.7  JOB CREATION AND EMPLOYMENT IN RURAL AREAS. Determine the impact of job creation and employment on rural development within selected areas of Mississippi through the study of family socioeconomic status, labor force participation, employment types, job mobility, training and retraining, and other programs. (MS-4302)

3.03.8  LABOR INSTABILITY IN LOUISIANA'S MARITIME INDUSTRIES. The overall objective of the project is to determine the social and cultural factors associated with high rates of turnovers among workers in Louisiana's offshore service industry and to formulate solutions to alleviate the problem. (LA-1778)

3.03.9  PRESENT IMPACT AND DEVELOPMENT OF THE CRAFT INDUSTRY IN RURAL TENNESSEE. Determine the economic impact of crafts on local and state economies and project its impact on jobs and incomes in Tennessee. Determine the noneconomic (socio-psychological) factors derived by craftsmen in producing crafts and in membership in craft cooperatives and also evaluate alternative organizational structures and leadership requirements of cooperatives to fulfill the needs of craftsmen. Evaluate present marketing systems being used by craftsmen and evaluate alternative methods for improving the present
marketing system to obtain maximum gain through coordinating supply procurement, production, and marketing. (TN-00422)

3.03.10 PRESENT IMPACT AND DEVELOPMENT OF THE CRAFT INDUSTRY IN THE RURAL TENNESSEE ENVIRONMENT. Evaluate the economic and social factors involved in production, development, and growth of craft industries in Tennessee. Determine the economic impact of crafts and craft cooperatives on local and state economies; and noneconomic factors derived by craftsmen in production of crafts and in membership in craft associations or cooperatives. Evaluate present marketing systems being used by craftsmen in Tennessee and the impact of the craft industry on jobs and incomes. Evaluate alternative methods of correcting problems. (TN-FC-S1-53)

R. Daniel 6/74-6/77 None reported.
W. R. Seymour
Department of Agricultural Economics & Rural Sociology
University of Tennessee
Knoxville, TN 37916

3.04 Major Area: ECONOMIC DEVELOPMENT

Minor Area: INCOME AND EMPLOYMENT EFFECTS OF NATURAL RESOURCE DEVELOPMENT

3.04.1 ANALYSIS OF OPPORTUNITIES TO DEVELOP RURAL TIDELANDS INDUSTRIES THROUGH IMPROVED FINANCIAL MANAGEMENT. Determine the costs and returns for selected fishing and sear-related business activities; determine the amount and types of financing required for selected enterprises; identify the extent and types of financing now used by producers; identify the characteristics used by lenders in determining amounts and terms of credit; identify the methods used to project debt repayment capabilities;

J. W. Hubbard 7/73-6/76 None reported.
D. E. Crawford
K. J. Roberis
Department of Agricultural Economics & Rural Sociology
Clemson University
Clemson, NC 29631
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<th>PROJECT TITLE</th>
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<td>analyze the impact of various debt structures, technologies, institutional conditions, and product prices on the costs and returns for selected sizes and types of commercial fishing firms; develop a cash-flow analysis for a typical firm. (SC-00073)</td>
<td>R. A. Jobes</td>
<td>Department of Agricultural Economics &amp; Rural Sociology</td>
<td>7/73-6/76</td>
<td>None reported.</td>
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<tr>
<td>AN ECONOMIC ANALYSIS OF ADJUSTMENTS IN RURAL HUMAN RESOURCES AS NEW TECHNOLOGY IS ADOPTED. Ascertain and analyze magnitude and socioeconomic characteristics of the seasonal labor force utilized in South Carolina agriculture. Determine labor displacement resulting from adoption of mechanical harvesters in South Carolina agriculture. Determine retrain-ability of displaced worker and identify the amount and type of educational costs necessary to render him marketable. Identify and estimate the magnitude of any intercommodity effects associated with the adoption of a mechanical harvester in one agricultural sector. Determine social rate of return on research and development costs of mechanical harvesters. (SC-00058)</td>
<td>C. S. Thompson</td>
<td>Clemson University</td>
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<td>EFFECTS OF INVESTMENTS IN RECREATIONAL RESOURCES ON INCOME AND EMPLOYMENT IN BARBOUR AND MARSHALL COUNTY. Estimate the relationship between various kinds and amounts of investments in rural recreational resources and economic development and determine the relationship between various types of</td>
<td>J. W. Jordan</td>
<td>Clemson, SC 29631</td>
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<td>E. W. McCoy</td>
<td>Department of Agricultural Economics &amp; Rural Sociology</td>
<td>3/71-6/76</td>
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socioeconomic changes and level and pace of economic development in two Alabama counties. (AL-00315)

3.04.4 THE POTENTIAL FOR DEVELOPMENT AND ECONOMIC IMPACT OF OUTDOOR RECREATION FACILITIES IN SELECTED RURAL AREAS OF LOUISIANA. Determine the potential for development of outdoor recreation facilities by individuals, communities, and the state on reservoir developments, such as Toledo-Bend reservoir, Lake D'Arbonne and Lake Claiborne and on other nonreservoir areas. Determine the potential for developing and marketing fee hunting, fishing, camping and other recreation operations by farmers and other individuals on marginal agricultural land in selected areas as an alternative source of income. Estimate the impact of the developments referred to in and upon the income, employment opportunities, tax, base, overall economic well-being and other associated measures in the community or rural areas. (LA-80-1554)

F. J. Hudson
L. J. Guedry
Department of Agricultural Economics & Agribusiness
Louisiana State University
Baton Rouge, LA 70803

2/71-2/76

J. F. Hudson and C. Stovall
J. F. Hudson and C. Stovall
J. F. Hudson and C. Stovall
C. L. Stovall

3.04.5 A SOCIOECONOMIC ANALYSIS OF ENVIRONMENTAL IMPROVEMENTS IN RURAL LAND AND WATER RESOURCES. Evaluate and select techniques for identifying and measuring pollution control effects; measure impact of pollution control on income and employment; analyze institutional alternatives for W. R. Kerns
J. W. Nixon
Department of Agricultural Economics
University of Georgia
Athens, GA 30601

7/72-6/76

W. Kerns and F. Holemo.
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<th>PROJECT TITLE</th>
<th>RESEARCHERS</th>
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<td>MATRIX NUMBER</td>
<td>ABSTRACT (ACTIVE)</td>
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3.05 Major Area: ECONOMIC DEVELOPMENT

3.05.1 ANALYSES OF THE STRUCTURE OF RURAL LAND VALUES AND THEIR RELATIONSHIP TO LAND USE. Determine the nature and operation of major value determinants in the rural and rural-urban fringe land markets of Texas. Analyze trends in aggregate land markets by geographical areas and for the state. (TX-06059)

I. W. Schmedemann
A. B. Wooten
J. D. Dodd

Department of Agricultural Economics
Texas A & M University
College Station, TX 77843

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| 3.05.2        | CONCEPTUALIZING LAND USE PLANNING AND MANAGEMENT. Identify the problems of    | J. G. McNeely                                                              | Department of Agricultural Economics               | 1/76-6/77          | J. G. McNeely. Property Rights and Land Use Planning in Texas, TA No. 11142, Apr 1974.  
|               |   land use and management which are motivating public officials in cities,     |                                                                               | Texas A & M University                             |                    | J. G. McNeely. The Potential for Land Use Planning in Texas, TA No. 11213, June 1974.  
|               |   use planning and management processes used elsewhere and new approaches      |                                                                               |                                                   |                    |                                                             |
|               |   which seem promising for Texas. Determine kinds and availability of          |                                                                               |                                                   |                    |                                                             |
|               |   socioeconomic land use data required for planning and management            |                                                                               |                                                   |                    |                                                             |
|               |   purposes at local, regional, and state levels. (TX-06058)                   |                                                                               |                                                   |                    |                                                             |
| 3.05.3        | MEASUREMENT OF ATTITUDES OF PEOPLE TOWARD LAND USE PLANNING. Discover what   | G. T. Hudson                                                               | Department of Agricultural Economics               | 7/74-6/77          | None reported.                                                               |
|               |   the attitudes of people are toward land use planning in a given county, or  |                                                                               | Economics & Rural Sociology                       |                    |                                                             |
|               |   counties. Analyze the variation of attitudes, if any related to the        |                                                                               | University of Arkansas                             |                    |                                                             |
|               |   different characteristics of the people, such as age, sex, occupation,      |                                                                               | Fayetteville, AR 72701                             |                    |                                                             |
|               |   income, education, etc. Relate the attitude patterns with the problems and  |                                                                               |                                                   |                    |                                                             |
|               |   experiences to the people. (AR-00808)                                      |                                                                               |                                                   |                    |                                                             |
| 3.05.4        | POTENTIAL FOR INCREASING NET FARM INCOME ON LOW-INCOME FARMS IN EASTERN      | E. D. Smith                                                                | Department of Agricultural Economics               | 7/74-6/77          | None reported.                                                               |
|               |   KENTUCKY. Estimate potential gains in net farm income from existing         |                                                                               |                                                   |                    |                                                             |
|               |   resources on selected                                                       |                                                                               |                                                   |                    |                                                             |
|               |                                                                                |                                                                               |                                                   |                    |                                                             |
3.05.5 SUPPLY AND DEMAND FOR PUBLIC FOREST RECREATION IN THE NORTH CENTRAL REGION. To develop decision models for estimating dollar values of forest recreation, consumption (rates of activity), and secondary economic consequences. To study consumer values affecting demand for forested outdoor recreation facilities. (KY-814)

3.06 Major Area: ECONOMIC DEVELOPMENT

3.06.1 CHARACTERISTICS, PREFERENCES, AND ATTITUDES CONCERNING PRIVATE FEE-FISHING OPERATIONS. Determine selected demographic and other characteristics of anglers on selected fee-fishing operations in Virginia; determine and rank important factors affecting the perceived quality of a fishing experience on selected fee-fishing operations in Virginia; develop methodology for predicting man-days of use accruing to selected fee-fishing operations in Virginia. Test the above methodology as to its utility as a predictive tool. (VA-0616234)

3.06.2 ECONOMIC STUDY OF DEMAND FOR OUTDOOR RECREATION AT BEAVER LAKE, ARKANSAS. Determine the economic benefits accruing to society from use of publicly provided recreation facilities on Beaver Lake; the maximum revenue which could
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be generated through a user fee at existing and proposed facilities; local changes in recreational demand patterns resulting from the construction of additional facilities; develop methods and procedures for estimation of the substitution effect of recreational price increases and apply the methods and procedures to reestimation of the demand functions. (AR-00817)

3.06.3 FAIRS AND FESTIVALS IN LOUISIANA AND THEIR SOCIAL AND CULTURAL SIGNIFICANCE. Determine the theme, history, and specific character of the various fairs and festivals celebrated in Louisiana and relate these events to the cultural (especially agricultural) development of the state. (LA-1779)

A. L. Bertrand
Department of Rural Sociology
Agricultural Experiment Station
Louisiana State University
Baton Rouge, LA 70803

1/76-12/77 None reported.

3.06.4 RECREATIONAL POTENTIAL OF ESTUARINE LAND. Gather information concerning the use of certain private land in the coastal areas of Louisiana for public recreational purposes. Activities include: (1) a survey of the legal impediments to greater use of private lands by the public for recreational purposes, (2) interviews with large landholding companies and individuals, (3) a survey of the location and potential recreational uses of private land in the coastal zone utilizing sampling surveys completed previously by various parish units, (4) participation in a statewide survey of public attitudes concerning the use of coastal areas. (LA-80-1680)

A. L. Bertrand
M. D. Grimes
Department of Rural Sociology
Agricultural Experiment Station
Louisiana State University
Baton Rouge, LA 70803

None reported.
3.07 Major Area: ECONOMIC DEVELOPMENT

3.07.1 AN ANALYSIS OF THE ECONOMIC FACTORS AFFECTING THE SUCCESS OF SMALL FARM OPERATORS. Identify some successful small farmers in Louisiana; determine the characteristics for success; estimate resource requirements and determine managerial practices; estimate input-output relationships and capital-labor coefficients by farm type and resource outlay; determine optimal combinations of enterprises; make recommendations to increase farm income. (LA-X-PR-0002-8-15-59)

L. Davis
J. R. Jindia
Department of Agricultural Economics
Southern University
Baton Rouge, LA 70813

5/73-5/78 None reported.

3.07.2 ECONOMIC FEASIBILITY OF ORGANIZING, FINANCING, AND MANAGING MARKETING AND SUPPLY COOPERATIVES FOR LOW-INCOME FARMERS AND RURAL RESIDENTS. Determine feasibility of organizing, financing, and managing cooperatives to accommodate income needs and rural living requirements for persons of low incomes; design model-type cooperatives which might meet the economic needs for low-income farmers and rural residents and outline the requirements for and implement the procurement of borrowed funds (private and public) to initiate such low-income cooperatives wherever feasible. (LA-BO-1552)

E. P. Roy
Louisiana State University
Baton Rouge, LA 70803


3.07.3 A FEASIBILITY STUDY OF THE COMMERCIAL PRODUCTION OF CRAYFISH UNDER SMALL POND CONDITIONS. Determine the type and amount of food that will yield the best production. Determine the most

L. R. Roddy
C. E. Davis
Department of Biology
Southern University
Baton Rouge, LA 70813

10/74-10/79 None reported.
### 3.07.5 Scientific Farm Organization for Rural Development

- **SCIENTIFIC FARM ORGANIZATION FOR RURAL DEVELOPMENT.** Determine the farm enterprise, and combination of technological practices that lend themselves best for improvement of low-income rural families.

  
  **(PR-00267)**

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<td>A. A. Llorens</td>
<td>3/71-3/76</td>
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<tr>
<td>Department of Agricultural Economics &amp; Rural Sociology</td>
<td>University of Puerto Rico, Rio Piedras, PR 00928</td>
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### 3.08 Major Area: Economic Development

#### 3.08.1 Alternative Income Opportunities for the Limited Resource Farmer in Three North Carolina Counties

- **ALTERNATIVE INCOME OPPORTUNITIES FOR THE LIMITED RESOURCE FARMER IN THREE NORTH CAROLINA COUNTIES.** Isolate limited resource farmer in the selected counties in terms of land, labor, and capital available to him, obtain his optimum allocation of resource according to farm enterprises, and where the optimum allocation of resource does not allow the farmer to obtain a "satisfactory" standard of living, the possibility of alternative sources of income outside of agriculture will be explored.

  
  **(NC-X-PR-0001-307-036)**

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<th>Author/Institution</th>
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<tr>
<td>B. G. Coley</td>
<td>6/72-6/77</td>
<td>None reported.</td>
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<tr>
<td>Department of Economics</td>
<td>University of North Carolina, Greensboro, NC 27412</td>
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#### 3.08.2 Alternative Technical and Economic Systems of Swine Production and Marketing on Small Farms

- **ALTERNATIVE TECHNICAL AND ECONOMIC SYSTEMS OF SWINE PRODUCTION AND MARKETING ON SMALL FARMS.** Determine the most effective alternative marketing of feeder pigs, including contractual arrangements and

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<tbody>
<tr>
<td>L. Weatherspoon</td>
<td>4/72-4/77</td>
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<tr>
<td>M. Neufville</td>
<td>Prairie View A &amp; M College, Prairie View, TX 77445</td>
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<td>specialized feeding-out of the pigs. Analyze the costs of production, under different systems of production, with special emphasis upon the various on-hand farm resources on small-farms. Evaluate the technical effects in the Texas gulf coast area of the optimum level of protein for the growing stages, kinds and levels of protein upon lean-cut yield and efficiency of gain, confinement systems. Evaluate the technical and economics of waste disposal in feeder pig production under various systems of confinement. (TX-X-PR-0003-G-1972)</td>
<td>V. W. Edmondson</td>
<td>Prairie View A &amp; M College</td>
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<tr>
<td>3.08.3 ANALYSIS OF RESOURCES ON SMALL LOW-INCOME FARMS. Determine the current physical and human resources as to situation on small, low-income farms. Determine the augmentation and development required of currently controlled resources in order to achieve better economic and social results from their use. Determine off-farm employment capabilities and needs of the farmers of small low-income farms. Provide basic enterprise budgeting, and other information, for extension educational programs among small, low-income farmers. (TX-X-PR-0003-G-6075)</td>
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<td>Prairie View, TX 77445</td>
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<td>3.08.4 ASPARAGUS AS A HIGH INCOME PER ACRE CASH CROP FOR LIMITED RESOURCE FARMERS. Determine the comparative value of asparagus as a high per acre cash value crop</td>
<td>H. Stallworth</td>
<td>Division of Agriculture</td>
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for limited resource farmers and study the effect of growth inhibitors in prolonging dormancy, and determine the varieties best adapted to the area, and the best cultural practices. (GA-X-PR-0003-72PS-0)

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<tr>
<td>3.08.5</td>
<td>ECONOMIC FEASIBILITY OF ORGANIZING MARKETING AND SUPPLY COOPERATIVES BY THE LOW-INCOME FARMERS. Determine the economic feasibility of organizing cooperative for low-income farmers in South Carolina. (SC-X-PR-0003-010)</td>
<td>S. R. Londhe</td>
<td>9/72-9/77</td>
<td>None reported.</td>
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<td>3.08.6</td>
<td>ECONOMIC FEASIBILITY OF PREBROILER PRODUCTION BY LOW-INCOME FARM FAMILIES. Determine the market potential for prebroilers in the Texas gulf coast area. Determine the most efficient methods of marketing the birds, including producer, buyer arrangements, processing and distribution to market outlets. Analyze costs of producing live birds under various technical production methods. Evaluate comparative efficiencies of the cage and litter pen types of bird-confinement. Evaluate meat strains of birds most suitable for prebroiler production. Investigate nutritional and confinement management factors in production. (TX-X-PR-0003-G-1971)</td>
<td>J. J. Woods</td>
<td>4/72-4/77</td>
<td>None reported.</td>
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<td>3.08.7</td>
<td>FRUIT GARDEN STUDIES. Study the feasibility of growing bush, vine, and tree fruits in small plots with culture comparable to that given by home gardeners. (LA-BO-1738)</td>
<td>E. N. O'Rourke, Jr.</td>
<td>7/75-6/80</td>
<td>None reported.</td>
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<td>Department of Horticulture</td>
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<td>3.08.8</td>
<td>FRUIT AND VEGETABLE PRODUCTION STUDIES FOR LOW-INCOME RURAL DWELLERS IN SOUTH-WEST MISSISSIPPI. Determine the most suitable varieties of selected fruit and vegetable crops for southwest Mississippi, and to determine the best cultural procedures, including irrigation and fertility, for these selected fruit and vegetable crops. (MS-1224)</td>
<td>J. P. Overcash</td>
<td>Department of Horticulture</td>
<td>2/71-6/76</td>
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<td>T. Suresh</td>
<td>Alcorn State University</td>
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<td>3.08.9</td>
<td>A SOCIOECONOMIC STUDY OF LOW-INCOME AND PART-TIME FARMERS IN SELECTED AREAS OF TENNESSEE. Measure the attitudes of low income and part-time farm families concerning alternatives for increasing family income and to compare their attitudes with those of full-time commercial farm families, establish a profile of land, labor, and capital resources of typical low-income and part-time commercial farm families, set up alternative resource use programs to optimize income from resources of low-income and part-time farm families. (TN-00430)</td>
<td>B. J. Irevena</td>
<td>Department of Agricultural Economics &amp; Rural Sociology</td>
<td>4/75-6/78</td>
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<td>University of Tennessee</td>
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**3.09** Major Area: ECONOMIC DEVELOPMENT

**Minor Area: ECONOMIC INTERACTION IN RURAL AREAS**

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<tr>
<td>3.09.1</td>
<td>AN ANALYSIS OF THE PROBLEMS INVOLVED IN FINANCING KENTUCKY FARMS. Determine credit needs of expanding commercial farms and applicability of polyperiod programming in analyzing credit needs</td>
<td>F. E. Justus, Jr.</td>
<td>Department of Agricultural Economics</td>
<td>10/72-10/76</td>
<td>A. I. Overall and F. E. Justus, Jr. Dairy Farming--A Whole New Ball Game?, Kentucky Agri-Business Spotlight, No. 54,</td>
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</table>
and provisions. Determine credit needs and problems of small farmers (including part-time and subsistence farmers). Develop guidelines for efficient loan extension and use by the two groups of farmers. (KY-00094)

3.09.2 CHANGES IN INDUSTRIAL STRUCTURE IN WEST TENNESSEE AND ITS IMPACT ON DEVELOPMENT IN RURAL AREAS. Obtain information regarding spatial patterns of industrial development and analyze the impact of manufacturing on the income in the rural areas of west Tennessee, during 1960-70 decade. Describe and analyze factors influencing recent spatial patterns of industrial development, so that some general guidelines can be established by which to advise local leaders, concerning types of industries suitable for their areas. (TN-X-PR-0001-34816)

S. P. Singh
Tennessee A & I State University
Nashville, TN 37203
3/73-3/78


3.09.3 DETERMINANTS OF THE RATE OF GROWTH IN EMPLOYMENT OF THE NORTH FLORIDA AREA ECONOMY. Develop explicit methods for determining employment growth rates and interrelationships, or linkages among the principal sectors of a predominantly rural economy. Empirically test these conceptual developments in the north Florida area economy. (FL-1436)

B. R. Eddleman
Department of Agricultural Economics
Florida Agricultural Experiment Stations
University of Florida
Gainesville, FL 32601
7/68-7/71

None reported.

3.09.4 EARNINGS OF FARMERS THROUGH COOPERATIVE ACTION IN ARKANSAS. Determine if prices

J. A. Fordon
D. J. Houston
6/72-6/77

None reported.
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<tr>
<td>3.09.5 THE IMPACT OF AGRICULTURAL AND NONAGRICULTURAL DEVELOPMENTS UPON THE ECONOMIES OF SELECTED RURAL AREAS IN LOUISIANA. Determine, for selected geographic areas, the potential for increased agricultural and nonagricultural development, including associated supply, processing, and marketing facilities. Estimate (measure) the economic impact of new developments on rural areas and/or rural communities in terms of employment, income, business created, larger public tax bases, public services, improved level of living standards and other measures. (LA-BO-1553)</td>
<td>L. J. Guedry</td>
<td>Department of Agricultural Economics and Agribusiness</td>
<td>2/71-2/76</td>
<td>L. J. Guedry and T. H. Klinadt. Impact of Agricultural Production on Output for a Rural Louisiana Economy: West Carrol Parish, Louisiana Rural Economist, Department of Agricultural Economics and Agribusiness, Louisiana State University, Vol 36, No. 4, Nov 1974, pp 11-14. T. H. Klinadt and K. W. Paxton. The Impact on Employment of Increasing Output of Industries in Louisiana: An Interindustry Analysis, Department of Agricultural Economics and Agribusiness, Research Rpt No. 468, June 1974, 28 pp.</td>
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<tr>
<td>3.09.6 INCOME INEQUALITY AND ITS RELATIONSHIP TO COMMUNITY STRUCTURES AND COMMUNITY INTERACTIONS. Determine variation and</td>
<td>G. C. Wheelock</td>
<td>Department of Agricultural Education</td>
<td>4/73-4/78</td>
<td>G. C. Wheelock. Structural and Demographic Determinants of Family Income</td>
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change, and their sources, in income inequality among 96 Census County Divi-
of North Alabama. Develop a typology of low-income communities in the 13-
county study area. Lay the foundation for subsequent systematic study of the relationship between contrasting levels of income inequality and associ-
ated socioeconomic structure. (AL-X-PR-0003-1-73)

3.09.7 PLANNING FOR ECONOMIC GROWTH AND RESOURCE MANAGEMENT. Develop and use quantitative models to evaluate impacts of alternative development and resource management programs on economic, demographic, institutional environmental, and natural re-
source attributes of multicounty areas. (FL-AS-01628)

E. T. Ioeeman
K. C. Gibbs
Department of Food and
Resource Economics
University of Florida
Gainesville, FL 32601

3.09.8 PROCESSES OF RURAL ECONOMIC CHANGE IN THE NORTHEAST. Inventory and classify non-
metropolitan areas for changing levels and structure of economic activity. Determine processes by which rural economic change occurs. Assess the viability of areas in terms of their resources. Indicate the probable direction of future economic changes. Evaluate the effects of institu-
tional changes and policy activities on rural economic change. (VA-0626179)

B. F. Long
Department of Agricultural
Economics
VPI & State University
Blacksburg, VA 24061

3.09.9 SOCIOECONOMIC CHARACTERISTICS OF RURAL DEVELOPMENT AREAS IN TENNESSEE. Deter-
mine the present economic base, to appraise the overall potentials for additional public and private investment,

S. D. Mundy
Department of Agricultural
Economics
University of Tennessee
Knoxville, TN 37916

and Income Inequality in North Alabama, Proceedings of the Rural Sociology Sec-
tion, Southern Association of Agricultural Scientists, Feb 3-6, 1974.


B. F. Long. The Need for Systems Approach to Rural Development Research: Discus-

M. D. Gray. An Economic Analysis of Sex Alternative Socio-Economics Data In-
formation Systems for Tennessee, Agricultural 77
<table>
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<th>MATRIX NUMBER</th>
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<tr>
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<td>and suggest alternative development strategies for each delineated rural development area in Tennessee. (TN-00328)</td>
<td>Y. P. Chang</td>
<td>Economics and Rural Sociology Department, University of Tennessee, 1975.</td>
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<tr>
<td>3.09.10</td>
<td>TECHNICAL AND ECONOMIC PROBLEMS IN ALTERNATIVE SYSTEMS OF PRODUCING AND MARKETING SELECTED VEGETABLES. Determine retail market demand for vine-ripened tomatoes and fresh sweet corn in alternative fresh vegetable consumer outlets. Determine alternative methods of delivering tomatoes and sweet corn from the farm to the consumer market. Determine production systems and cultural practices that provide the desired type of tomato and sweet corn demanded by the consumer. Determine various costs of on-farm production under various resource situations, including operator management capabilities. (TX-X-PR-0003-C-1970)</td>
<td>M. Burns</td>
<td>Prairie View A &amp; M College Prairie View, TX 77445</td>
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| Minor Area: INCOME AND EMPLOYMENT EFFECTS OF TAXATION AND REGULATIONS |
|---------------|-------------------|-------------|--------------------------|-------------------|-------------|
|               | Department of Agricultural Economics University of Georgia Athens, GA 30601 | 7/74-6/77 | | | |
implications of the current tax structure on agriculture, agribusiness, and other segments of the economy, the impact of alternative tax structures on equity, efficiency and desired land use patterns. (GA-00485)

3.11 Major Area: ECONOMIC DEVELOPMENT

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<tr>
<td>3.11.1</td>
<td>APPLICATION OF A FAMILY MODEL TO THE ANALYSIS OF SUPPLY OF MARKET WORK TIME OF FARM WAGE WORKERS. Analyze total work time supplied per unit time (days per year) by hired workers. (NC-12094)</td>
</tr>
<tr>
<td>3.11.2</td>
<td>IMPROVING THE INCOME AND EMPLOYMENT STATUS OF DISADVANTAGED RURAL PEOPLE. Development of relevant knowledge through research which may contribute to improving the income and employment status of disadvantaged people in the 10 counties of southeast Arkansas. (AR-X-PR-0006)</td>
</tr>
<tr>
<td>3.11.3</td>
<td>SOUTHERN REGIONAL RURAL DEVELOPMENT RESEARCH COUNCIL. Identify essential components of a comprehensive rural development research program, review rural development research programs of stations in the South, recommend research priorities, facilitate regional research, coordinate research with rural development activities of Extension and other agencies concerned with rural development, hold workshops, maintain contact with other agencies concerned with rural development.</td>
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<tr>
<td>D. M. Hoover</td>
<td>Department of Economics North Carolina State Raleigh, NC 27607</td>
<td>10/74-9/77</td>
<td>None reported.</td>
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<td>L. A. Ihnen</td>
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<tr>
<td>O. R. Holiday</td>
<td>Department of Agriculture Cooperative State Research Service University of Arkansas at Pine Bluff Pine Bluff, AR 71601</td>
<td>4/73-1/77</td>
<td>None reported.</td>
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F. H. Tyner. The Role of Research in Community Development.
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</thead>
</table>
4.01.1 AGRICULTURAL WASTE MANAGEMENT AND ENVIRONMENTAL QUALITY, PHASE 1. Study the effects of variable application rates, time, and frequency of application of animal waste, and treatment system effluents (lagoon) on soil-crop systems, in order to determine optimum and maximum loading rate consistent with plant growth, without adversely affecting the quality of surface and groundwater. Evaluate the extent of the recycling of animal waste and treatment system effluents through the soil-plant system. Characterize selected soils in regard to their potential as animal waste disposal systems.

(NC-X-PR-0006-309-12)

I. Ruffin
Department of Plant Science
North Carolina A & T University
Greensboro, NC 27411

5/73-5/78
None reported.

4.01.2 DREDGE AND FILL EFFECTS ON MARSH SOILS AND MARINE ORGANISMS. Study the effects of dredge and fill operations on the soils and marine organisms of the marsh, investigate the populations of economically important marine species in relation to marsh soils, study the correlation between certain essential elements in the marine organisms and the soils, a study of the presence of pollutants in the marsh and methods for their abatement, and investigations of the marsh productivity and methods for increasing it.

(FL-X-PR-0002-01588)

C. L. Coulthas
Department of Earth and Plant Science
Florida A & M University
Tallahassee, FL 32307

1/71-1/77
None reported.
<table>
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<th>PERFORMANCE PERIOD</th>
<th>PUBLICATIONS</th>
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<tbody>
<tr>
<td>4.01.3 EFFECTS OF DOMESTIC, AGRICULTURAL, INDUSTRIAL, AND SOIL POLLUTION ON SELECTED POND ECOSYSTEMS PHASE. Make quantitative and qualitative laboratory and field studies of pollution from various sources in selected pond ecosystems, and determine the effects of this pollution on the plant and animal life of the ponds, as reflected in changes that occur over a 5-year period. (NC-X-PR-0006-309-12)</td>
<td>E. Marrow Department of Biology North Carolina A &amp; T University Greensboro, NC 27411</td>
<td>5/73-5/78</td>
<td>None reported.</td>
</tr>
<tr>
<td>4.01.4 HEAVY-METAL POLLUTION OF SOILS: EFFECTS ON AGRICULTURAL PRODUCE OF AREAS ADJACENT TO URBAN CENTERS. Determine pH and the concentration of As, Pb, Cd, Zn, and Hg in soil, farm ponds, and domestic water supplies in rural areas in proximity to large urban centers during periods of the year. Determine the concentration of As, Cd, Zn, and Hg in crops taken from soil under intensive agriculture near urban centers. Develop methods by which As, Cd, Zn, and Hg can be made available to the plant or immobilized in the soil. (TX-X-PR-0001)</td>
<td>E. Brams Prairie View A &amp; M College Prairie View, TX 77445</td>
<td>6/73-6/78</td>
<td>None reported.</td>
</tr>
<tr>
<td>4.01.5 THE INFLUENCE OF HERBICIDES ON SOIL AND WATER QUALITY. Determine the residual effects of atrazine, trifluralin, and dalapon when used at recommended and excessive rates. Determine if the rate of degradation of these herbicides differ in two soils of different types and drainage patterns. Determine migration of specific herbicides in different soil types. (TN-X-PR-0002-34676)</td>
<td>F. E. Westbrook Department of Plant Science Tennessee A &amp; I State University Nashville, TN 37203</td>
<td>8/72-8/77</td>
<td>None reported.</td>
</tr>
</tbody>
</table>
4.02 Major Area: ENVIRONMENTAL IMPROVEMENT

4.02.1 ECONOMIC AND ENVIRONMENTAL IMPACTS RECREATION DEVELOPMENT AND MANAGEMENT STRATEGIES. Estimate economic effects of alternative water-based recreational development and management strategies. Analyze factors causing environmental impacts on both recreational users and on the physical sites. Develop a simulation model which will measure the environmental externalities and economic impacts associated with the water-based recreational uses. Determine the level of physical development, and the level management that will optimize the trade-offs between environmental externalities and economic values. (OK-01564)

D. D. Badger
Department of Agricultural Economics
Oklahoma State University
Stillwater, OK 74074
10/73-12/75
D. D. Badger. Local and Regional Economic Effects of Recreation at Lake Tenkiller, Oklahoma Agricultural Exp Sta Professional Paper 167.

4.02.2 THE ENVIRONMENTAL IMPACT OF SEASONAL RESORTS ON RURAL AREAS IN WESTERN NORTH CAROLINA. Make an assessment of the present status of the seasonal resort industry in the 14 counties in western North Carolina. Construct a tentative "Quality of Life" index reflecting the general well-being of the study area. (NC-X-PR-0007-307-066)

D. Y. Chen
Department of Economics
North Carolina A & T University
Greensboro, NC 27412
5/75-5/80
None reported.

4.02.3 METHODS FOR SELECTING, PLANNING, MANAGING AND EVALUATING RECREATIONAL SITES, PHASE 1. Determine roles of plant materials in the selection, development, and management of recreational sites, evaluate the adequacy of design concepts and management practices to meet preferences of selected

C. L. Fountain
Department of Plant Science
North Carolina A & T University
Greensboro, NC 27412
6/73-6/78
None reported.

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groups, particularly the elderly, determine the impact of users on vegetative cover of recreational sites and develop reliable and easily applied methodology for post-design evaluation of recreational developments. (NC-X-PR-0007-307-643)

4.03 Major Area: ENVIRONMENTAL IMPROVEMENT

Minor Area: FOREST AND WILDLIFE

4.03.1 ENVIRONMENTAL EFFECTS ON PRODUCTIVITY OF CRAYFISH IN POND HABITATS, PHASE I.
Determine types of vegetation found in natural disturbed and pond habitats.
Determine influence of associated animals on productivity. Determine water quality in these habitats. (LA-X-PR-0002-8-15-0)

L. R. Roddy
C. E. Davis
Department of Biology
Southern University
Baton Rouge, LA 70813

4/72-4/77 None reported.

4.03.2 ENVIRONMENTAL EFFECTS ON PRODUCTIVITY OF CRAYFISH IN POND HABITATS, PHASE II.
Determine difference in egg production in natural, disturbed, and pond habitats.
Determine productivity of crayfish by trapping. Determine by burrow counts the productivity of crayfish in natural, disturbed, and pond habitats.
(LA-X-PR-0002-8-15-5)

L. R. Roddy
C. E. Davis
Department of Biology
Southern University
Baton Rouge, LA 70813

11/72-11/77 None reported.
<table>
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<tr>
<th>4.04</th>
<th>Major Area: ENVIRONMENTAL IMPROVEMENT</th>
<th>Minor Area: LAND USE AND ZONING</th>
</tr>
</thead>
</table>
| 4.04.1 | FACTORS AFFECTING RURAL PROPERTY VALUES AND LAND USE PATTERNS IN OKLAHOMA. | H. D. Drummond  
Department of Agricultural Economics  
Oklahoma State University  
Stillwater, OK  74074 |
|       | Estimate values for the relevant variables (economic, locational, and use characteristics) affecting rural real estate values in Oklahoma; evaluate the impact of public expenditure and tax policies on real estate values and land use patterns in Oklahoma; develop an economic model for the state of Oklahoma capable of generating estimates of future land use requirements; sample rural people to ascertain their attitudes toward alternative land use regulation strategies; analyze the differential effects of alternative land use regulation strategies on land use patterns, the distribution of net private benefits, the rate of land use conversion, the distribution of local tax burdens, and the fiscal position of the local community. (OK-01571) |
| 4.04.2 | ECONOMICS OF COASTAL ZONE MANAGEMENT. | L. E. Danielson  
G. A. Mathia  
J. B. Bullock  
Department of Economics  
North Carolina State University  
Raleigh, NC  27607 |
4.05 Major Area: ENVIRONMENTAL IMPROVEMENT

4.05.1 DETERMINATION OF ESTHETIC ORNAMENTATIONS
FOR HOME GROUNDS OF LOW AND MODERATE
INCOME FAMILIES. Study hardiness of
ornamental plants which have landscape possibilities and study ways of implement-
menting low-cost plant material indigenous to middle Tennessee into esthetic home grounds composition.

(TN-X-PR-0003-34586)

4.05.2 IMPROVEMENT OF TECHNIQUES FOR THE PRODUCTION OF ORNAMENTAL FOLIAGE PLANTS. Improve present commercial production practices and establish quality standards for the different types of ornamental foliage plants for marketing purposes.

(PR-00248)

4.06 Major Area: ENVIRONMENTAL IMPROVEMENT

No research resumes available.
TERMINATED PROJECTS
<table>
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<th>MATRIX NUMBER</th>
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<td>1.01</td>
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<td>Major Area: COMMUNITY SERVICES AND FACILITIES</td>
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<td>1.01.1</td>
<td></td>
<td>ALTERNATIVE MEDICAL SERVICE DELIVERY SYSTEMS FOR RURAL AREAS IN MISSISSIPPI.</td>
<td>F. H. Tyner</td>
<td>Department of Agricultural Economics</td>
<td>4/73-12/75</td>
<td>None reported.</td>
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<td></td>
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<td>Determine number and location of specified medical services in rural areas of Mississippi; determine requirements for and use of specified medical services by low-income rural residents; specify and evaluate economic efficiency of alternative medical service delivery systems. (MS-4008)</td>
<td>Mississippi State University</td>
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<tr>
<td>1.01.2</td>
<td></td>
<td>FACTORS AFFECTING THE USE OF MEDICAL SERVICES IN RURAL AREAS OF ARKANSAS.</td>
<td>B. L. Green</td>
<td>Department of Agricultural Economics &amp; Rural Sociology</td>
<td>2/71-6/73</td>
<td>J. F. McCoy, B. L. Green, and M. Grinstead. Sixty-Nine Percent of Arkansans Indicate Willingness To Use Services of Physician Extenders, Arkansas Health Statistics Center, Tech Rpt No. 4, 4 pp, May 1974.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Determine access to medical and health services as indicated by need and use of services; measure family financial capabilities, attitudes and beliefs and planning concerning medical services; and to determine kinds and adequacy of community services. (AR-00747)</td>
<td>University of Arkansas</td>
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<td>1.01.3</td>
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<td>OPTIMIZING THE SOUTH CAROLINA COMMUNITY HOSPITAL SYSTEM FOR IMPROVING ACCESS BY RURAL RESIDENTS. Determine a least-cost location pattern for the South Carolina community hospital system. The focal issue is the relationship between costs and spatial configuration of the system. Provide a framework and functional techniques for planning purposes; develop an optimal location pattern with respect to</td>
<td>B. L. Dillman</td>
<td>Department of Agricultural Economics &amp; Rural Sociology</td>
<td>9/72-8/74</td>
<td>None reported.</td>
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<td>Clemson University</td>
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<td>Clemson, SC 29631</td>
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numbers, sizes, and locations to improve access for rural residents; and evaluate the usefulness of the location model in conjunction with an access opportunity model on the basis of improved welfare of rural residents.  (SC-00046)

<table>
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<tr>
<th>1.02</th>
<th>Major Area: COMMUNITY SERVICES AND FACILITIES</th>
<th>Minor Area: EDUCATION AND TRAINING</th>
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</thead>
</table>
| 1.02.1 | DECISION MODELS FOR SCHOOL FACILITIES CONSTRUCTION IN NONMETROPOLITAN AREAS OF NORTH CAROLINA. Develop and demonstrate the usefulness of decision models to assist administrators and public advisory bodies in making choices concerning optimum size and location of new school facilities and choices concerning the renovation of existing structures. (NC-13326) | R. A. King  
Department of Economics  
North Carolina State University  
Raleigh, NC 27607 |
| 1.02.2 | A STUDY OF MANPOWER TRAINING REQUIREMENTS. Initiate research on future manpower and training needs by occupations. A search of the relevant literature will be made and a request for information will be made to CRIS. Pilot experiments will be conducted and the data used to design definitive experiments. This information will be incorporated into a concise project outline and a revised research resume and classification of research. (TX-01961-R1) | C. F. Fritsch  
E. S. Webb  
Department of Agricultural Economics  
Texas A & M University  
College Station, TX 77843 |


### Project Title Table

<table>
<thead>
<tr>
<th>Matrix Number</th>
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<th>Performance Period</th>
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<td>COMMUNITY SERVICES AND FACILITIES</td>
<td>Minor Area: WATER SYSTEMS</td>
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<td>1.03.1</td>
<td>COSTS OF ALTERNATIVE WATER AND SEWERAGE SYSTEMS IN RURAL AREAS OF MISSISSIPPI.</td>
<td>J. E. Waldrop</td>
<td>Department of Agricultural Economics</td>
<td>9/71-8/74</td>
<td>None reported.</td>
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<td></td>
<td>Summarize the sources of Federal loans and grants and the required procedures</td>
<td>Department of Agricultural Economics</td>
<td>Mississippi State University</td>
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<td>for obtaining Federal assistance in developing water and sewer systems for</td>
<td>Mississippi State, MS 39762</td>
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<td>communities of less than 5,500 population. Enumerate by geographical location</td>
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<td>and present information on number of people served, size of system, means of</td>
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<td>financing, current financial situation and other characteristics of rural water</td>
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<td>and sewer systems in Mississippi. Document the total and per customer investment</td>
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<td>in selected existing water and sewerage systems of various capacities.</td>
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<td>Estimate the annual cost per customer of rural water systems of alternative</td>
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<td>sizes serving areas of different population densities and compare these with</td>
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<td>individually owned wells. (MS-4303)</td>
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<td>1.03.2</td>
<td>DETERMINATION OF OPTIMUM RESERVOIR CAPACITY FOR RURAL WATER SUPPLIES.</td>
<td>C. T. Haan</td>
<td>Department of Agricultural Engineering</td>
<td>4/71-6/75</td>
<td>J. E. Jarboe and C. T. Haan. Calibration of a Four-Parameter Water Yield</td>
</tr>
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<td></td>
<td>Develop procedures whereby the optimum</td>
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</table>
size of reservoirs for rural water supplies can be determined. (KY-00123)

University of Kentucky
Lexington, KY 40506


1.03.3 ECONOMIC STUDY OF ALTERNATIVE SYSTEMS FOR DISTRIBUTING WATER SUPPLIES IN A DECENTRALIZED URBAN–INDUSTRIAL AREA. To develop equation for estimating water use growth rates for large public and industrial water–using organizations; develop models and procedures for water use planning; develop minimum cost plans for distributing water from a major reservoir to various parts of the upper Santee River Basin. (SC-932)

J. M. Stoop
C. L. Liner
Department of Agricultural Economics and Rural Sociology
Clemson University
Clemson, SC 29631

Economic Analysis of Water Supply Needs and Alternatives in a Multi–County Industrial Area, Water Resources Research Institute, Clemson University, Apr 1974.

1.03.4 PILOT PLANT STUDIES OF ELECTRICAL WATER PURIFICATION FOR SMALL INDIVIDUAL SYSTEMS. Development of an optimum pilot–plant water treatment system and incorporation of the system into a mobile laboratory. Critical evaluation of the pilot plant on various difficult water treatment problems in Texas. (TX-01874)

E. A. Hiler
R. C. Dillon
Department of Agricultural Engineering
Texas A & M University
College Station, TX 77843

None reported.

1.03.5 PRICING OF WATER IN LOUISIANA. Examine pricing theories and practices for flow resources with fluctuating supplies and demands; review price structures and pricing policies of municipally owned and privately owned water companies in

F. L. Corts
Department of Agricultural Economics & Agribusiness
Louisiana State University
Baton Rouge, LA 70803

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<tr>
<td>1.04</td>
<td>Major Area: COMMUNITY SERVICES AND FACILITIES Minor Area: WASTE DISPOSAL</td>
<td>B. F. Long</td>
<td>Department of Agricultural Economics</td>
<td>2/71-12/74</td>
<td>R. Carriker and B. F. Long. Economic Implications of Pollution Control in a</td>
</tr>
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</table>
control plan in a small community and determine the economic consequence of the program adopted. Determine the magnitude of water pollution damages on current and future uses. Analyze probable consequences of pollution abatement programs on damaged parties and uses, local industry, local government, and local residents. Analyze alternative approaches for meshing objectives of water quality improvement and economic and social stability of local areas. (VA-0616154)

1.05 Major Area: COMMUNITY SERVICES AND FACILITIES Minor Area: RECREATION

1.05.1 EVALUATION OF OUTDOOR RECREATION SITES ADJACENT TO LAKE NAGODOCHES. Develop a systematic approach to the selection and evaluation of the site factors presently recognized as essential to the location and development of outdoor recreation facilities. (TX-Y-74-011)

K. G. Watterston B. Floyd School of Forestry Stephen F. Austin State University
Nagodoches, TX 75961

1.05.2 IMPLEMENTATION OF CONTINUANCE PLANNING PROGRAM IN OUTDOOR RECREATION, III. Investory, compile, and prepare a written summary of planned outdoor recreation land acquisition and facility development programs by state planning districts for the period July 1, 1973 to June 30, 1978 by governmental units; complete study on out-of-state visitors and resident out-of-district visits for recreation participation by state planning districts; develop materials and complete study on fishermen and hunters and fishing and hunting habitat; conduct special

J. H. Blackstone
Department of Agricultural Economics & Rural Sociology Auburn University
Auburn, AL 36830

1/73-5/74

10/72-9/74

None reported.

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<td>1.06 Major Area: COMMUNITY SERVICES AND FACILITIES</td>
<td>Minor Area: LAW ENFORCEMENT</td>
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<th>1.07 Major Area: COMMUNITY SERVICES AND FACILITIES</th>
<th>Minor Area: FIRE PROTECTION</th>
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<tbody>
<tr>
<td>1.07.1 INTENSIVE STUDY OF AN INCENDIARY FIRE PROBLEM IN LOUISIANA. During the time of this reporting period a comprehensive research plan for the project was developed. In addition preliminary participant observation and depth interview field work was carried out. The data collected are presently being processed and analyzed. Findings are being written up and will be evaluated preparatory to undertaking the final data gathering phase of the study. It is contemplated that the field work, data processing, and data analyses will be completed in the next few months. After this a comprehensive report on the findings will be prepared. (LA-80-1675)</td>
<td>G. A. L. Jenkins 1/74-12/74 None reported. Department of Rural Sociology Agricultural Experiment Station Louisiana State University Baton Rouge, LA 70803</td>
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<td>1.09</td>
<td>Major Area: COMMUNITY SERVICES AND FACILITIES</td>
<td>Minor Area: GENERAL COMMUNITY SERVICES</td>
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<tr>
<td>1.09.1</td>
<td><strong>APPRAISAL OF PUBLIC EXPENDITURES AND SOURCES OF PUBLIC REVENUES WITH EMPHASIS ON LAND RESOURCES.</strong> Classify land uses, estimate land values and evaluate the land tax potential for supporting local service needs; economically evaluate existing and potential land resources as sources of revenue to finance public services; identify public services and related expenditures, per capita, in rural areas; and classify major public service needs, determine incidence of benefits, whether national, state, or local and relate incidence of benefits to incidence of costs. <strong>(LA-BO-1612)</strong></td>
<td>F. L. Corty</td>
<td>9/72-6/75</td>
<td>K. J. Coulon, Jr. <strong>The Property Tax as a Source of Revenue to Finance Local Public Services in Agricultural Parishes of Louisiana, master's thesis the graduate school, Louisiana State University, Dec 1974.</strong></td>
</tr>
<tr>
<td>1.09.2</td>
<td><strong>DELINEATION OF SOCIOCULTURAL AREAS OF ECOLOGICAL REGIONS.</strong> Delineate the socio-cultural areas of subregions of Arkansas. Identify the ecological and socioeconomic variables that are presumed to be related to community decisions and/or adjustments to change. <strong>(AR-00674)</strong></td>
<td>C. T. Hudson</td>
<td>8/66-6/71</td>
<td>None reported.</td>
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</table>
AN ECONOMIC ANALYSIS OF EDUCATION AND OTHER INSTITUTIONAL SERVICES FOR RURAL AREAS. Determine the distribution of schooling costs and benefits, analyze ways of reducing costs of schooling in rural areas, estimate the economies of city size. (OK-01457)

L. Tweeten
Department of Agricultural Economics
Oklahoma State University
Stillwater, OK 74074


AN ECONOMIC ANALYSIS OF THE FINANCING OF LOCAL GOVERNMENTS IN NORTH CAROLINA. Identify and estimate the determining factors.

F. A. Mangum
E. C. Pasour, Jr.
Department of Economics

E. C. Pasour, Jr. Real Property Taxes and Farm Real Estate Values:
<table>
<thead>
<tr>
<th>PROJECT TITLE</th>
<th>RESEARCHERS</th>
<th>PERFORMANCE PERIOD</th>
<th>PUBLICATIONS</th>
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</table>
| AN ECONOMIC ANALYSIS OF PROVIDING COMMUNITY SERVICES IN RURAL AREAS OF LOUISIANA. Identify and describe the existence of selected community services in selected rural areas of Louisiana. Determine generalized least cost alternatives for providing selected community services in rural areas. Identify and describe alternative methods of financing community services. (LA-BO-1617) | R. B. Johnson  
Department of Agricultural Economics & Agribusiness  
EMPLOYING INDIGENOUS PARAPROFESSIONALS TO STIMULATE TOTAL RURAL DEVELOPMENT. Assess effectiveness of indigenous paraprofessional extension assistants in rural community development work in terms of type worker most effective, training needs, number of communities served, and amount and type of supervision necessary. Determine overall impact of program in relation to job and income opportunities, community services and facilities, quality of housing, leadership development, and quality of life. Assess degree of system linkages of other agencies with communities. (KY-00122)

P. F. Korschning
Department of Sociology
University of Kentucky
Lexington, KY 40506

Dept of Agricultural Economics and Agribusiness, Louisiana State University, May 1974.
R. B. Johnson, T. H. Klindt, and W. P. Hobgood, Jr.

2/74-6/75

None reported.
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<tr>
<td>1.09.7</td>
<td>INSTITUTIONAL STRUCTURES FOR IMPROVING RURAL COMMUNITY SERVICES. Identify configurations of institutional structures which affect provision and delivery of community services. Define indices of adequacy of community services. Determine the existence and adequacy of community services provided in selected rural areas. Determine the relationship between the configuration of institutional structures and the existence and adequacy of community services. Identify policies, alternative patterns of organization and conditions for effective planning, and coordination for the delivery of community services. (TX-03148)</td>
<td>W. H. Oberle, Department of Rural Sociology, Texas A &amp; M University, College Station, TX, 77843</td>
<td>7/71-6/74</td>
<td>W. H. Oberle, K. R. Stowers, and J. P. Darby. A Definition of Development, Journal of the Community Development Society 5 (Spring).</td>
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1.10
Major Area: COMMUNITY SERVICES AND FACILITIES
Minor Area: PLANNING

<table>
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<th>PUBLICATIONS</th>
</tr>
</thead>
</table>
computerized land-use and spatial demographic information system for South Carolina, and utilize that system to analyze alternatives for spatial distribution of public investments. (SC-00987)

Department of Agricultural Economics & Rural Sociology
Clemson University
Clemson, SC 29631

Conservation Commission in cooperation with Clemson University.

1.11 Major Area: COMMUNITY SERVICES AND FACILITIES

1.11.1 DEVELOPMENT OF IMPROVED HOUSING FOR RURAL NORTH CAROLINA FAMILIES. Improve the quantity and quality of housing available to rural North Carolina residents through the development of new single and multi-family housing designs, new construction methods and production systems; the formation of new self-help organizations; and the development of improved credit systems that will provide adequate financing for establishing construction facilities. (NC-13327)

R. A. King
Department of Economics
North Carolina State University
Raleigh, NC 27607

2/71-6/74

1.11.2 EVALUATION AND IMPROVEMENT OF LOW-COST RURAL HOUSING IN TENNESSEE. Determine present status of rural housing in Tennessee; develop plans, procedures and methods of improving rural housing for low-income families. (TN-00333)

D. O. Baxter
Department of Agricultural Engineering
University of Tennessee
Knoxville, TN 37916

3/71-6/75

1.11.3 PHYSICAL, SOCIAL AND ECONOMIC ASPECTS OF FUNCTIONAL HOUSING FOR LOW-INCOME FAMILIES. Develop and Evaluate concepts for low-income housing. Construct and evaluate prototypes of houses and components. Develop a retrieval system for housing information. (SC-00872)

E. B. Rogers, Jr.
Department of Agricultural Engineering
Clemson University
Clemson, SC 29631

7/68-6/73
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<tr>
<th>MATRIX NUMBER</th>
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<tr>
<td>1.11.5</td>
<td></td>
<td>PHYSICAL, SOCIAL AND ECONOMIC ASPECTS OF FUNCTIONAL HOUSING FOR LOW-INCOME FAMILIES. To develop and evaluate concepts for low-income housing. To construct and evaluate prototypes of houses and components. To develop a retrieval system for housing information. (VA-626116)</td>
<td>James E. Montgomery</td>
<td>College of Home Economics, Virginia Polytechnic Institute</td>
<td>7/68-6/72</td>
<td>None reported.</td>
</tr>
</tbody>
</table>
1.11.6  RURAL DEVELOPMENT RESEARCH -- TUSKEGEE INSTITUTE -- PHASE I. Determine family housing requirements and needs on the basis of selected characteristics. Inventory and appraisal of current and potential land uses and factors affecting land uses in low-income counties of Alabama. Evaluate dietary intake, food preparation and acceptability of the food surplus commodity programs in selected low-income counties of Alabama. Develop techniques, procedures and educational processes for effectively communicating information to low-income people as related to housing, human nutrition, and proper land use. (AL-116-15-08)

R. A. Chung  5/71-6/74  None reported.
B. Tolbert
Department of Agricultural Sciences
Tuskegee Institute
Tuskegee, AL 36088

1.11.7  RURAL HOUSING IN SELECTED AREAS OF ARKANSAS: SITUATION, NEEDS AND POTENTIAL AND THE ROLE OF FINANCE. The general objective of the proposed study is to evaluate current housing in terms of needs and the opportunities and potential programs for improvement. More specific objectives are: identify the socioeconomic factors associated with the quality and quantity of housing; determine the rural housing needs in selected areas; estimate the gap between current availability of housing and future needs and the cost of closing the gap; ascertain the attitude of poorly housed families toward home improvements and the steps that the occupants would be willing to take in order to improve housing such as incurring debt; evaluate alternative methods of financing. (AR-00678)

H. Spurlock
Department of Agricultural Economics & Rural
University of Arkansas
Fayetteville, AR 72701
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<tr>
<th>Project Title</th>
<th>Researchers</th>
<th>Performance Period</th>
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<td>Minor Area: LEGAL INSTITUTIONS AND LEGAL SERVICES</td>
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<tr>
<td><strong>1.13</strong></td>
<td>Major Area: COMMUNITY SERVICES AND FACILITIES</td>
<td>Minor Area: FINANCIAL SERVICES</td>
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<tr>
<td>1.13.1</td>
<td>AN ECONOMIC EVALUATION OF CREDIT AND FINANCIAL RESOURCE PROBLEMS OF LOW-INCOME FARMERS AND RURAL RESIDENTS. Determine for low-income farmers and low-income rural residents: characteristics and delineate attributes associated specifically with financial and credit problems; extent of knowledge regarding modern farming practices and financial management principles and mobility problems; present financial position; sources of credit; amounts borrowed from each source; principle uses of credit; interest paid; level of savings; and allocation of personal disposable farm and nonfarm income; relative</td>
<td>R. B. Johnson</td>
<td>2/71-12/73</td>
</tr>
</tbody>
</table>
and absolute numbers of low-income farmers and rural residents who are
aware of potential sources of credit; have been unable to borrow from con-
ventional credit sources; and would borrow if credit were available. Formu-
late and evaluate alternative means for increasing productivity and, hence,
potential earnings of low-income rural residents (including off-farm employment):
to furnish research information to the Cooperative Extension Service, State Rural
Development Committees and others who are interested in supporting action programs
in credit and finance for low-income farm and rural residents. (LA-BO-1555)

1.13.2 SUPPLYING AND FINANCING LOCAL PUBLIC SERVICES IN RURAL AREAS TO MEET CHANGING ECONOMIC CONDITIONS. Obtain information on types, extent, and use patterns of public services in rural areas and to analyze per capita costs of these services; compare administrative policies and sources of financing of public services; and evaluate influence of availability and costs of public services upon economic development, population, and out-migration. (KY-00085)

A. F. Bordeaux
Department of Agricultural Economics
University of Kentucky
Lexington, KY 40506


1.14 Major Area: COMMUNITY SERVICES AND FACILITIES
Minor Area: TAXATION

No research resumes available.

1.15 Major Area: COMMUNITY SERVICES AND FACILITIES
Minor Area: MISCELLANEOUS AND UNCLASSIFIED

No research resumes available.
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<tr>
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<td>Minor Area: HUMAN DEVELOPMENT</td>
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<tr>
<td>2.01.1</td>
<td>AGED IN NORTH CAROLINA: PHYSICAL, SOCIAL AND ENVIRONMENTAL CHARACTERISTICS AND SOURCES OF ASSISTANCE. Describe and compare certain physio-socioenvironmental characteristics of rural and urban persons 65 years and older in terms of sources supplying them with information relative to aging, types of information received, and types and sources of information or services desired. (NC-03240)</td>
<td>V. R. Kivett 7/69-6/74</td>
<td>Department of Home Economics University of North Carolina Greensboro, NC 27412</td>
<td>V. R. Kivett, C. Bishop, and J. Watson. Characteristics and Needs of Persons 65 Years and Older in Guilford County, North Carolina, Tech Rpt No. 6, Home Economics Center for Research, University of North Carolina, Oct 1973.</td>
<td></td>
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<tr>
<td>2.01.2</td>
<td>COLLEGE CAREER DEVELOPMENT STUDY OF THE RURAL COLLEGE STUDENT. Develop and administer a new educational development questionnaire to be applied to randomly sampled cohorts at Langston University to develop better insights into the maturation process of the college student on a year-by-year basis. In general, the data will be oriented to reflect developing student attitudes toward social institutions, personal relations, economic factors and nutrition. (OK-AR-03)</td>
<td>R. K. Kinnard 7/69-6/72</td>
<td>Langston University Langston, OK 73050</td>
<td>None reported.</td>
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<tr>
<td>2.01.3</td>
<td>COLLEGE MATURATION STUDY. Measure adaptive and development changes within the college student through his four years of college, and evaluate the significance of differences between the four academic levels--freshmen, sophomores, juniors, and seniors--and the difference in the same students in a one-year period in college. (OK-AR-04)</td>
<td>R. E. Kinnard 7/70-12/73</td>
<td>Langston University Langston, OK 73050</td>
<td>None reported.</td>
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</tbody>
</table>
2.01.4 DEVELOPMENT OF HUMAN RESOURCE POTENTIALS OF RURAL YOUTH IN THE SOUTH AND THEIR PATTERNS OF MOBILITY. To follow the life adjustments of a sample of young people from the rural South who were studied earlier in regional project S-61 (objective C). A. To determine patterns of development, adjustment and mobility of rural youth relative to occupation, education, family development, and place of residence during the transition from adolescence to early adulthood. B. To determine factors influencing differentials in these patterns of development, adjustment and mobility of rural youth. C. To ascertain the rates and direction of historical change in the values, aspirations, and expectations of different types of rural youth relative to place of residence, education, job, and family. (AL-327)

J. E. Dunkelberger 7/71-6/74  None reported.
Department of Agricultural Economics and Rural Sociology
Agricultural Experiment Station
Auburn University
Auburn, AL 36803

2.01.5 DEVELOPMENT OF HUMAN RESOURCE POTENTIALS OF RURAL YOUTH IN THE SOUTH AND OTHER PATTERNS OF MOBILITY. Follow the life adjustments of a sample of young people from the rural South who were studied earlier in regional project S-61 (objective C). A. Determine patterns of development, adjustment and mobility of rural youth relative to occupation, education, family development, and place of residence during the transition from adolescence to early adulthood. B. Determine factors influencing differentials in these patterns of development, adjustment and mobility of rural youth. C. Ascertain the rates and direction of historical change in the values, aspirations, and expectations of different types of rural youth relative to place of residence, education, job, and family. (GA-00439)

M. J. Knapp 7/71-6/75
G. D. Lowe
Department of Agricultural Economics
University of Georgia
Athens, GA 30601

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<tr>
<th>MATRIX NUMBER</th>
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<th>PERFORMANCE PERIOD</th>
<th>PUBLICATIONS</th>
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</thead>
<tbody>
<tr>
<td>2.01.7</td>
<td>THE ECONOMICS OF PROFESSIONAL DRIVER TRAINING. Describe and analyze development of formal truck driving schools</td>
<td>L. A. Ihnen  Department of Agricultural Economics</td>
<td>4/71-3/74</td>
<td>A. G. Cuthbertson. Occupational Training in the Trucking Industry,</td>
</tr>
</tbody>
</table>
in the U. S., estimate costs, returns for investment in formal professional truck driver training through the N. C. Truck Driver Training School, with emphasis on students from rural areas.
(NC-13332)

2.01.8 EVALUATION OF VOCATIONAL TRAINING FOR RURAL PEOPLE. Analyze impacts of post-high school vocational training and related supportive services on the employment and earnings experiences of trainees with rural backgrounds, as compared with those from urban settings. Assess net effects of selected programs from the viewpoint of investments involved and overall benefits derived, focusing especially on the supportive features found to be most relevant to trainees with rural backgrounds.
(TN-00365)

2.01.9 FARM LABOR IN TENNESSEE. Inventory and describe changes; estimate supply and demand; determine effect of minimum wage; and estimate migration by counties.
(TN-00285)

North Carolina State University Raleigh, NC 27607

D. W. Brown Department of Agricultural Economics University of Tennessee Knoxville, TN 37916

7/72-6/75 None reported.

L. L. Bauer Department of Agricultural Economics University of Tennessee Knoxville, TN 37916

10/68-6/74

2.01.10 **HUMAN RESOURCE DEVELOPMENT IN THE FRAMEWORK OF RURAL DEVELOPMENT.** (1) Assess the effectiveness of education in Arkansas in providing needed skills. (2) Analyze the job market for those qualifying for nonprofessional jobs and suggest ways in which the market can be improved. (3) Consider the impact of new industries in the state on unemployment, income, and related facilities. (AR-00746)

J. M. Redfern

B. Green

Department of Agricultural Economics & Rural Sociology

University of Arkansas

Fayetteville, AR 72701

2/71-6/74


HUMAN RESOURCE DEVELOPMENT PROBLEMS AND POTENTIALS IN GEORGIA AND THE SOUTHEAST. Establish norms for defining labor market maladjustments, isolate explanatory variables associated with per capita income variability, derive empirical estimates of earning capacity and actual per capita earnings, develop indices of local labor maladjustment, analyze the acuteness of labor maladjustments in local rural farm and nonfarm sectors, and test the

J. W. Nixon
Department of Agricultural Economics
University of Georgia
Athens, GA 30601

J. D. Tarver

C. E. Leitle, B. L. Green, and C. R. Britton. Adjust-
ments Made by Communities with an Exhaustible Re-
source Base, Arkansas Farm Research, Vol XXI, No. 3.
B. L. Green and J. M. Redfern. Social and Labor
Adjustment of Rural Black Americans in the Miss.
Delta, A Case Study of Madison, Ark., Agricultural
Economic Report No. 274.
M. J. Guinestead, B. L. Green, and J. M. Redfern.
Rural Development and Labor Adjustment in the
Mississippi Delta and Ozarks of Ark., Bulletin
795, Mar 1975.
R. N. Davis, B. L. Green, and J. M. Redfern. Low-
Income Rural People in East Central Arkansas Face Road-
blocks to Jobs, Agricultural Economic Rpt No. 209.

J. W. Nixon and W. Musser. Rural Manpower Situations
and Needs in the Southeast, Faculty Series 74-3,
Division of Agr Economics, Sept 1974.
Rural Manpower Perspectives and Research Under the Com-
prehensive Employment and Training Act, prepared for
Governor's office, State of Georgia, Apr 1974.
<table>
<thead>
<tr>
<th>PROJECT TITLE</th>
<th>RESEARCHERS</th>
<th>PERFORMING ORGANIZATION</th>
<th>PERFORMANCE PERIOD</th>
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</table>
INFLUENCES ON OCCUPATIONAL GOALS OF YOUNG PEOPLE. Determine relationship between selected family characteristics and occupational goals of youth and of their mothers for them in selected groups from three subcultures: Appalachian White, Rural Negro, and Urban Negro. Determine effectiveness of selected methods of implementing change in mother's information and attitudes which in turn should raise the occupational aspirations of these youth. (SC-00826)

K. S. Powell
Department of Home Economics
Clemson University
Clemson, SC 29631

V. A. Boyd, A. G. Funk, G. R. Lurie, and N. J. Pettigrew. An Assessment of a Program for Rural Youth from Low-Income Families in South Carolina, Extension Circular 559, Clemson University, cooperating with USDA.


Needs For Child Care and Potentials for Rural Family, Individual, and Community Development. University of NC, Winthrop College, NC State University, and Clemson University, 1 July 1974.

L. Southworth and S. Shoffner Description of Instruments, Chapter IV; L. Southworth,
<table>
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<tr>
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<th>PERFORMANCE PERIOD</th>
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</table>
2.01.16 OCCUPATIONAL GOALS OF YOUTH. Determine the relationship between selected family characteristics and occupational goals of youth and of their mothers for them in three subcultures: Appalachian Rural White, Rural Negro, and Urban Negro. Determine effectiveness of selected methods of implementing change in mother's information and attitudes which in turn should raise the occupational aspirations of these youth. (NC-11063)

S. M. Shoffner
Department of Home Economics
North Carolina State University
Raleigh, NC 27607
5/67-12/73


2.01.17 PERSONAL STABILITY AND SOCIAL ADJUSTMENT OF KENTUCKY MOUNTAIN PEOPLE AS RELATED TO FAMILY PATTERNS. Study the personal stability and social adjustments of eastern Kentuckians, the relationship of selected variables (including current socio-economic and cultural changes) to their mental health, and their perception of mental health and illness. (KY-00812)

T. R. Ford
E. G. Youmans
J. S. Brown
Department of Rural Sociology
University of Kentucky
Lexington, KY 40506
7/69-6/74


2.01.18 PROBLEMS OF POPULATION DECLINE IN RURAL AREAS. Estimate effects in rural areas of rural-urban migration on income to resources, personal income, and its distribution and interaction between economic and demographic variables. Analyze actual and potential employment of displaced rural people in nonfarm employment by capital importation. (NC-03231)

B. L. Gardner
Department of Agricultural Economics
North Carolina State University
Raleigh, NC 27607
4/69-4/74

None reported.
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<th>MATRIX NUMBER</th>
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<td>Minor Area: WELFARE</td>
<td>H. F. Robinson</td>
<td>Department of Agricultural Economics</td>
<td>6/69-6/72</td>
</tr>
<tr>
<td>2.02.1</td>
<td>COMPARISON OF RURAL POVERTY IN NORTH CAROLINA AND WISCONSIN WITH IMPLICATIONS FOR LABOR FORCE PARTICIPATION RATES. Make comparisons of major physical resources and the economic and personal characteristics of rural farm and nonfarm populations of North Carolina and Wisconsin. Compare poverty lines and evaluate policy alternatives for North Carolina and Wisconsin. (NC-00307-014)</td>
<td>Department of Agricultural Economics</td>
<td>A &amp; T University of North Carolina</td>
<td>Greensboro, NC 27412</td>
<td></td>
</tr>
<tr>
<td>2.02.2</td>
<td>ECONOMIC ADJUSTMENT OF POVERTY STRICKEN RURAL PEOPLE IN NORTH CAROLINA. To study via survey alternative policy proposals to upgrade human and physical resource development. To evaluate alternative outcomes of policies for developing human resources. (NC-00307-077)</td>
<td>H. F. Robinson</td>
<td>Department of Agricultural Economics</td>
<td>A &amp; T University of North Carolina</td>
<td>Greensboro, NC 27411</td>
</tr>
<tr>
<td>2.02.3</td>
<td>AN EVALUATION OF THE EFFECT OF INCOME MAINTENANCE PROGRAMS ON RURAL PEOPLE IN NORTH CAROLINA. Identify typologies of poverty in North Carolina, compare the traditional welfare system with income maintenance programs and assess the relative economic well being of rural people in North Carolina. Secure implications for alternatives to income maintenance programs. (NC-X-307-020)</td>
<td>H. F. Robinson</td>
<td>A &amp; T University of North Carolina</td>
<td>Greensboro, NC 27412</td>
<td>None reported.</td>
</tr>
</tbody>
</table>
### 2.02.4 The Family Assistance Plan and Its Implications to Rural North Carolina

Identify the objectives of the family assistance plan; evaluate the impact of the implementation of the present plan on the rural population; devise viable alternatives to the family assistance plan. (NC-X-307-025)

<table>
<thead>
<tr>
<th>Author</th>
<th>Date</th>
<th>Location</th>
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<tbody>
<tr>
<td>H. F. Robinson</td>
<td>5/71-6/73</td>
<td>Human Resource Development Center</td>
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<td>A &amp; T University of North Carolina</td>
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<td></td>
<td>Greensboro, NC 27412</td>
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</tbody>
</table>

### 2.03 Major Area: People Building

**Minor Area: Health and Nutrition**

#### 2.03.1 Eating Habits and Patterns of Selected Low-Income Families in Two West Tennessee Counties

Determine: local food habits, attitudes, likes and dislikes; methods of food procurement—buying practices, home grown, food stamps, commodity and supplementary foods and the cost of foodstuffs; the extent to which each commodity or supplementary food and food purchased with food stamps is incorporated into the family nutrition, program, including meal planning; and food intake and nutritive value of the dates for two seasons based on a 24-hour recall. (TN-01-4122-34204)

<table>
<thead>
<tr>
<th>Author</th>
<th>Date</th>
<th>Location</th>
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<tbody>
<tr>
<td>O. L. Adams</td>
<td>7/70-6/72</td>
<td>Department of Home Economics</td>
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<tr>
<td>M. C. Towns</td>
<td></td>
<td>Tennessee A &amp; I State University</td>
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<td>Nashville, TN 37203</td>
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#### 2.03.2 Ecology of Nutrition of a Low-Income Community in North Carolina

Identify the extent that levels of nutrition in a sample low-income community can be associated with environmental factors. Extend the information base to develop action guidelines for government agencies, educators and other interested agencies toward adjustment of nutritional levels to an optimum. (NC-00307-20-B)

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<tr>
<th>Author</th>
<th>Date</th>
<th>Research Focus</th>
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<tr>
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<tr>
<td>2.03.3</td>
<td>THE EFFECT OF DIETARY TRACE ELEMENTS IN A SELECTED POPULATION. Study the role of trace elements in human development. Determine how various organs are affected by dietary trace elements. Determine the dietary levels of trace elements for low-income families in Kentucky. Determine to what extent diets containing supplemental trace minerals will correct the biological impairments resulting from intake of abnormal levels of trace elements. (KY-00101)</td>
<td>C. A. Smith, Jr. W. J. Fleming O. M. Cheaney Department of Chemistry Kentucky State University Frankfort, KY 40601</td>
</tr>
<tr>
<td>2.03.4</td>
<td>FOOD CONSUMPTION, DIETARY PATTERNS AND SCHOOL PERFORMANCE OF ADOLESCENTS. Questionnaires will be developed to collect data for one week during the school year. Parents, teachers, and/or other persons will be interviewed to check the validity of the data. The data will be coded, tabulated, and processed in the computing center at Alcorn State University. It will be analyzed for the usual meal patterns and the relationship of adequate nutrient content to such factors as school performance (based on grade level), socio-economic background of the family, sex, etc. Differences of students receiving free lunches, partially free, nonfree, and home-packed lunches will also be determined. Between 300 and 450 subjects attending high school in Adams, Claiborne, and Jefferson counties will be used to complete the study. (MS-1971-01)</td>
<td>M. Smith Department of Home Economics Alcorn State University Lorman, MS 39066</td>
</tr>
</tbody>
</table>
2.03.5 IDENTIFICATION OF SUBCLINICAL MALNUTRITION. Expand the body of knowledge for improving nutrition as a factor in rural development in Franklin County, KY, by: identifying effective tools for collecting food habit data; comparing food habit data with metabolic parameters; adapting instrumental techniques to rapid measurement of nutritional state. (KY-00102) W. J. Fleming O. M. Cheaney C. Lee Department of Chemistry Kentucky State University Frankfort, KY 40601

5/70-1/74 None reported.

2.03.6 MONITORING SUBCLINICAL MALNUTRITION TO ENHANCE RURAL DEVELOPMENT (BIOLOGY). Develop a system approach for routine monitoring of subclinical malnutrition in rural populations. Identify and relate factors coincident to the nutritional state relative to rural development. (KY-X-PR-0001-12) W. J. Fleming
Department of Biology
Kentucky State University
Frankfort, KY 40601

1/72-6/74 None reported.

2.03.7 MONITORING SUBCLINICAL MALNUTRITION TO ENHANCE RURAL DEVELOPMENT (HOME ECONOMICS). Develop a system approach for routine monitoring of subclinical malnutrition in rural populations. Identify and relate factors coincident to the nutritional state relative to rural development. (KY-X-PR-0001-19) O. M. Cheaney C. J. Lee Department of Home Economics Kentucky State University Frankfort, KY 40601

1/72-6/74 None reported.

2.03.8 MONITORING SUBCLINICAL MALNUTRITION TO ENHANCE RURAL DEVELOPMENT (SOCIOLOGY). Develop a system approach for routine monitoring of subclinical malnutrition in rural populations. Identify and relate factors coincident to the nutritional state relative to rural development. (KY-X-PR-0001-24) L. L. Guimaraes A. W. Wright C. A. Humphrey Department of Sociology Kentucky State University Frankfort, KY 40601

1/72-6/74 None reported.
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<tr>
<th>MATRIX NUMBER</th>
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<th>RESEARCHERS</th>
<th>PERFORMANCE PERIOD</th>
<th>PUBLICATIONS</th>
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</thead>
</table>
| 2.03.9        | NUTRITIONAL STATUS OF SELECTED LOW-INCOME FAMILIES IN TWO WEST TENNESSEE COUNTIES. Determine nutritional status of selected low-income families by biochemical methods. (TN-0001-4166-34434) | O. L. Adams  
M. G. Towns  
Department of Extension  
Education  
Tennessee A & I State University  
| 2.03.10       | NUTRITIONAL STATUS: A SOCIOLOGICAL APPROACH. To develop models for interdisciplinary applied research useful for improving nutritional status and increasing self-help of impoverished people. (MS-4003) | Helen Armstrong  
Department of Home Economics  
Mississippi Agricultural Experiment Station  
Mississippi State University  
Mississippi State, MS 39762 | 7/71-6/73 | None reported.                                                                                   |
| 2.03.11       | SOYBEAN PROTEIN IN IMPROVING NUTRITIONAL STATUS OF LOW-INCOME FAMILIES. Improve nutritional status of poverty subjects by feeding synthetic meat. (GA-FVSC-CSRS-02) | O. Simpson  
S. F. Rahman  
M. C. Blount  
Division of Agriculture  
Fort Valley State College  
Fort Valley, GA 31030 | 6/68-6/71 | None reported.                                                                                   |
<table>
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<tr>
<th>2.04</th>
<th>Major Area: PEOPLE BUILDING</th>
<th>Minor Area: DEMOGRAPHY</th>
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<tbody>
<tr>
<td>2.04.1</td>
<td>ANALYSIS OF POPULATION. Provide readily accessible source of information on the characteristics of the people of Louisiana including trends and significance for planning and development within the state. (LA-BO-1073)</td>
<td>A. L. Bertrand</td>
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<td>T. E. Koebenick</td>
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<td>2.04.2</td>
<td>ASSOCIATION OF RACE, SEX, URBAN AND RURAL RESIDENCE WITH ACHIEVEMENT. Develop techniques for measuring the contribution of sex, race, and rural and urban residence to education, occupation, and income and test the hypothesis that the contribution of race, sex, and residence decreased from 1960 to 1970. (NC-13444)</td>
<td>C. P. Marsh</td>
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<td>Department of Sociology &amp; Anthropology</td>
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<td>2.04.3</td>
<td>THE CHANGING COMMUNITY. Determine the demographic, ecological and sociocultural characteristics of types of communities; analyze changes in the institutional and sociocultural relations; determine which growth factors may be applied in directing change and analyze the patterns of adjustment to change made by persons in the community. (NC-13265)</td>
<td>A. C. Davis</td>
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</table>
2.04.5  FACTORS ASSOCIATED WITH THE MIGRATION OF RURAL PEOPLE FROM SELECTED MISSISSIPPI COUNTIES. Isolate and evaluate selected factors which, it is believed, influence people to leave rural areas of Miss. Ascertain the dominant characteristics, if any, of persons who have migrated from rural areas of Miss. Ascertain the direction and destination of out-migrations and assess their educational and occupational status at their destinations. Relate findings of the study to on-going programs of planning and replanning for comprehensive rural area development and to problems of retaining and further development of local human resources. (MS-1968-01)

W. C. Boykin, Sr.  3/68-3/73
W. F. Jackson
Department of Agricultural Education
Alcorn State University
Lorman, MS  39096

None reported.

2.04.6  HUMAN RESOURCE CHARACTERISTICS AND CHANGES IN RELATION TO AGRICULTURE AND RURAL DEVELOPMENT IN TEXAS. Analyze, synthesize, and make available in useable form information concerning the human resources of Texas; analyze and isolate

W. K. Upham  11/70-6/75
E. L. Copeland
Department of Rural Sociology
Texas A & M University
College Station, TX  77843

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<td>(a) the characteristics of the poverty population in Texas, and (b) the characteristics of places having unduly large or small proportions of poverty; determine and analyze the patterns of migration in Texas; identify and analyze the human and economic characteristics of two types of counties: (1) those losing population, and (2) those gaining population well above the state growth rate; develop projections of the growth and change in the population of Texas Counties after 1970. (TX-01833)</td>
<td>W. K. Upham and L. Jimenez. Rural Youth in the South: The Population Under Age 25, Information Rpt 73-1, Prairie View A&amp;M University Cooperative Research Center, Aug 1974, 92 pp. L. Jimenez and W. K. Upham. Rural Youth in Five Southwestern States: The Population Under Age 25, Information Rpt 74-1, Prairie View A&amp;M University Cooperative Research Center, Oct 1974, 56 pp.</td>
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<td>2.04.7</td>
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<td>PROBLEMS AND PROCESS OF ADJUSTMENT OF MIGRANTS FROM SELECTED RURAL MISSISSIPPI COUNTIES. Ascertained problems encountered by people who leave rural Mississippi to live in new locations. Gain a knowledge of the processes employed in making adjustments to live in new locations. Develop guidelines for use by local agencies in advising on migration. (MS-1970-01)</td>
<td>W. C. Boykin, Jr. Alcorn State University Alcorn, MS 39096</td>
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<td>None reported.</td>
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<td>2.04.8</td>
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<td>SOCIAL, DEMOGRAPHIC AND ECONOMICS CORRELATES OF COUNTY AND AREA MIGRATION RATES IN KENTUCKY. Construct and test multiple regression models to predict county and area net migration rates. Measure the influence of selected social, economic and demographic factors on net migration rates. (KY-00817)</td>
<td>T. R. Ford J. S. Brown Department of Sociology University of Kentucky Lexington, KY 40506</td>
<td>6/70-6/73</td>
<td>None reported.</td>
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</table>
2.04.9  SOCIO-ECONOMIC CHARACTERISTICS OF LOW-INCOME FAMILIES IN AN ISOLATED RURAL COMMUNITY. Identify the basic socio-economic characteristics of rural families living in an isolated community; determine the physical resources and quality of public and private utilities available to the community; develop benchmark data for measurement of change in the community; evaluate program impact on families and the community. (PR-00001)

R. Calero  4/74-10/75  None reported.
L. Muler
Department of Agricultural & Rural Sociology
University of Puerto Rico
Mayaguez
Rio Piedras, PR 00928

2.04.10  SOCIAL AND ECONOMIC IMPLICATIONS OF CHANGING POPULATION OF GEORGIA WITH REFERENCE TO ENTIRE SOUTH. Determine the effects of recent manpower and other types of governmental policies upon the population trends of counties, particularly rural counties; determine the precise influence of new capital investment upon the number of workers, total population trends, and incomes of workers; determine the correlates of metropolitanization, industrialization, and urbanization, as well as rural depopulation, in Georgia and the South generally; and determine the major factors that have affected the population growth and decline of towns and cities in Georgia and the South generally. (GA-00442)

J. W. Nixon
Department of Agricultural Economics
University of Georgia
Athens, GA 30601

2.04.11  THE SOCIAL IMPACT OF ECONOMIC AND POPULATION CHANGE IN TRANSITIONAL SOUTH CAROLINA COUNTIES. Determine the interdependent impacts of social, economic, and environmental changes in a heterogeneous region. Five categorical bases will be delineated: community, economic systems, educational institution, political institution and natural resource use. The

Department of Agricultural Economics & Rural Sociology
Clemson University
Clemson, SC 29631
results from these analyses will be synthesized to determine the concomitant interdependent impacts. (SC-00965)

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<td>2.05</td>
<td></td>
<td>PEOPLE BUILDING</td>
<td>R. R. Price</td>
<td>Department of Agricultural Education</td>
<td>1/69-7/70</td>
<td>None reported.</td>
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<tr>
<td>2.05.1</td>
<td></td>
<td>EFFECTS OF A SPECIALLY DESIGNED PROGRAM UPON ADVANTAGED AND DISADVANTAGED RURAL STUDENTS. Determine the differences in attitude toward education and employment between advantaged and disadvantaged vocational agriculture students. Compare a new instructional program with the traditional instructional program for their effects on these attitudes; determine whether low income white, American Indian, and Negro students respond differently to the two programs. (OK-1458-S)</td>
<td>R. R. Price</td>
<td>Department of Agricultural Education</td>
<td>Oklahoma State University Stillwater, OK 74074</td>
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<td>2.05.2</td>
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<td>EVALUATION AGRICULTURAL OCCUPATIONAL CAREER DEVELOPMENT FOR RURAL YOUTH. Construction and evaluation of a career development program in agricultural occupations for advantaged and less advantaged rural youth. (OK-01523)</td>
<td>R. R. Price, J. P. Key</td>
<td>Department of Agricultural Education</td>
<td>Oklahoma State University Stillwater, OK 74074</td>
<td>F. J. Lark, B. L. Henderson, J. P. Key, and R. R. Price. A Career Development Program in Agricultural Occupations for Advantaged and Less Advantaged Rural Youth, State Department of Vocational and Technical Education, Division of Research, Planning and Evaluation, Stillwater, OK.</td>
</tr>
</tbody>
</table>
2.05.3 AN EVALUATION OF THE EFFECTIVENESS OF INDIGENOUS PERSONNEL IN AN EDUCATIONAL PROGRAM. To evaluate the effectiveness of program aides in facilitating educational assistance to a limited number of farm operators whose gross incomes are less than $10,000 per year. (TX-1839)

2.05.4 EVALUATION OF A LEADERSHIP DEVELOPMENT PROGRAM FOR RURAL DISADVANTAGED IN LAWRENCE COUNTY, ALABAMA. To provide information relative to the effectiveness of a leadership development program implemented in Lawrence County, Alabama, on promoting community improvements. (AL-00-0005-71)

2.05.5 IMAGES OF AGRICULTURE STUDENTS TOWARD THEIR TRAINING AND TOWARD AGRICULTURE. Determine factors that influence students to enroll in the School of Agriculture. Determine the occupational status of graduates (1950 to present) of the School of Agriculture and the career expectations of presently enrolled students. Determine perceptions of present and former students of training they are receiving or have received. Determine their perceptions of agriculture industry and how their occupational status relates to the industry. (TX-61920)

V. W. Edmondson 9/70-8/73
H. W. Ladewig
Department of Agricultural Economics and Sociology
Texas Agricultural Experiment Station
College Station, TX 77843

J. J. Dawson 6/71-6/73
Department of Agricultural Education
Alabama Agricultural and Mechanical College
Normal, AL 35762

C. D. Knotts 6/71-6/74
Department of Agriculture
Prairie View A & M College
Prairie View, TX 77445

None reported.


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<td>2.05.6</td>
<td>IMPACT OF THE EXPANDED FOOD AND NUTRITION EDUCATION PROGRAM ON LOW-INCOME HOMEMAKERS IN SELECTED ALABAMA COUNTIES. Relate homemaker response to RFNEP to characteristics of low-income homemakers as well as methods employed by program assistants. Develop quantitative measures of homemaker progress for use in relating progress to characteristics and methods employed and assess retention by the homemaker of skills learned from the program after its discontinuance.</td>
<td>J. E. Dunkelberger</td>
<td>Department of Agricultural Economics &amp; Rural Sociology</td>
<td>4/71-6/74</td>
<td>None reported.</td>
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<p>| 2.06 | Major Area: PEOPLE BUILDING | Minor Area: HOUSEHOLD DECISIONS AND MANAGEMENT |
| 2.06.2 | DECISION-MAKING AND COMMUNICATIONS PATTERNS OF DISADVANTAGED FARM FAMILIES IN THE NORTH CAROLINA COASTAL PLAINS AREA. | E. White E. J. Boone | Department of Adult &amp; | 2/71-1/74 | None reported. |</p>
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Determine kinds of farm-home decisions taken by disadvantaged farm families, processes and sources of information used in taking decisions, linkage between sources of information, socio-psychological factors related to decisions and information sources. (NC-13325)

2.06.3 HOME AND FAMILY DECISION MAKING PROCESSES FOR RURAL FAMILIES. Identify decision process concepts and indicators of these processes in rural families. Develop instruments for identification and measurement. Compare decision making processes in rural and urban low-income families. Study relationships among the processes and factors such as: decision importance, content, strategy, satisfaction, and participation. (LA-BO-1558)

2.07 Major Area: PEOPLE BUILDING Minor Area: COMMUNITY DECISION MAKING

2.07.1 IDENTIFICATION OF COMMUNITY LEADERS IN A RURAL, PREDOMINANTLY BLACK COMMUNITY. Develop a simple technique for identifying community leaders in a rural, predominantly black community. Identify community members who influence or are likely to be leaders in community development. Identify the particular spheres of leadership, such as economic, cultural, religious, political, etc. Test the commonality among the identified leaders. (OK-AR-05)
2.08 Major Area: PEOPLE BUILDING

2.08.1 ASSESSMENT OF FAMILY FUNCTIONING IN RURAL AREAS OF TENNESSEE. Determine the level of functioning of a sample of rural Tennessee families in the categories of family interaction and cohesion, housing environment, economic activities, and community resources and to ascertain factors related to their functioning which have implications for intervention programs. (TN-00354)

A. E. Gravatt
H. M. Reed
Department of Home Economics - Child Development
University of Tennessee

1/72-12/74

2.08.2 CHANGES IN THE SOCIOECONOMIC STATUS OF FAMILIES IN LOW-INCOME, HIGH MIGRATION RURAL AREAS. Determine the changes and concomitance of changes in the socioeconomic status of families in low-income, high-migration rural areas of Arkansas. Evaluate the effect of migration on the socioeconomic adjustment of households left in the areas, and determine the location, occupation, and family status of members who have moved elsewhere. (AR-00693)

J. L. Charlton
Department of Agricultural Economics and Rural Sociology
Arkansas Agricultural Experiment Station
University of Arkansas
Fayetteville, AR 71701

2/68-2/73
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<td>2.08.3</td>
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<td>CHARACTERISTICS AND PROBLEMS OF THE AGED IN A DIFFUSED RURAL SOCIETY. To determine the number, characteristics, attitudes, and aspirations of aged persons now living in rural areas of the state and to discover what problems they face in a rapidly changing rural world. Specific objectives relate to a determination of the concepts of retirement and work which the rural aged have and how they plan to adjust to the increasing impact of technology. The characteristics, plans, attitudes and problems of the rural and urban aged will be contrasted to determine possible differences which have implications for the future of the nation. (LA-01147)</td>
<td>A. L. Bertrand Department of Rural Sociology Agricultural Experiment Station Louisiana State University Baton Rouge, LA 70803</td>
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<td>None reported.</td>
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<td>2.08.4</td>
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<td>FACTORS AFFECTING PATTERNS OF LIVING IN DISADVANTAGED FAMILIES. Determine the nature and interrelationship of patterns of living in disadvantaged families and factors influencing these patterns. Develop analytical design: select and/or construct the evaluation indicators, indices, and measurements of patterns of living applicable to the study of disadvantaged families. Describe patterns of living and determine factors associated with these patterns. Ascertain the interrelationships of the patterns and the factors influencing these interrelationships. (TX-02906)</td>
<td>W. P. Kuvlesky Department of Rural Sociology Texas A &amp; M University College Station, TX 77843</td>
<td></td>
<td>Patterns of Living Related to Income Poverty in Disadvantaged Families: A Basebook. NC-90 Technical Committee, Iowa Agricultural and Home Economics Exp Sta, Special Rpt 74, Aug 1974. E. A. Taft. Relationships Between Family Disability and Family Interaction Patterns, master's thesis, Texas A &amp; M University, Dec 1973. J. A. Sell. Elements of Sex Role Perpetuation in Attitudes of Mothers: A Study of Metropolitan and</td>
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</table>
2.08.5 HOUSING NEEDS AND SATISFACTIONS OF RURAL FAMILIES IN NORTH CAROLINA. Identify housing needs and satisfactions of rural families in North Carolina. Compare expressed housing needs and satisfactions of consumers with characteristics of occupied dwelling and with characteristics of current housing supply. Evaluate expressed needs in relation to selected demographic characteristics. (NC-13388)

N. H. Holmes
Department of Home Economics
University of North Carolina
Greensboro, NC 27412

11/72-12/75 None reported.

2.08.6 THE HUMAN RECOLOGY AND RECREATIONAL IMPACT OF TOLEDO BEND RESERVOIR. Determine the impact which the development of a natural resource, the Toledo Bend Reservoir, has had on western Louisiana. Specific goals are to provide information to the changes in human ecological patterns and on the users of this giant outdoor recreational facility. (LA-80-01556)

A. I. Bertrand
Department of Rural Sociology
Louisiana State University
Baton Rouge, LA 70803


2.08.7 RELATIONSHIP BETWEEN PERSONAL CHARACTERISTICS AND HOUSING ENVIRONMENT. Determine if there is a relationship between personal characteristics and housing. Ascertain if the sex factor is a variant in determining the effect of the housing environment of personal characteristics. (AR-X-45-2030)

P. Greenhouse
J. W. McCray
Department of Home Economics
University of Arkansas
Pine Bluff, AR 71601

2.08.8 RURAL DEVELOPMENT AND THE QUALITY OF LIFE IN THE RURAL SOUTH. Compile materials describing changes during the 1960's in counties and subareas of the South in a form useful to rural leaders. Determine major social, economic and other changes not covered in available secondary materials. Determine changes since 1960 in quality of living for families in rural areas of selected counties of the South. Relate changes in quality of rural living of families to changes identified from secondary and other sources. Determine patterns of change since 1960 in quality of living for selected families and individuals representing distinctive types in 1960. (AL-00316)

2.08.9 RURAL DEVELOPMENT AND THE QUALITY OF LIFE IN THE RURAL SOUTH. Compile materials describing changes during the 1960's in counties and subareas of the South in a form useful to rural leaders. Determine major social, economic, and other changes not covered in available secondary materials. Determine changes since 1960 in quality of living for families in rural areas of selected counties of the South and relate changes in quality of rural living of families to changes identified from secondary and other sources. Determine patterns of change since 1960 in quality of living for selected families and individuals representing distinctive types in 1960. (GA-00432)
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<td>4/71-6/75</td>
<td>A. L. Coleman, M. Coughenour</td>
<td>University of Kentucky</td>
<td>Department of Rural Sociology</td>
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<td>Lexington, KY 40506</td>
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<td>J. Brown</td>
<td></td>
<td>Is the Quality of Life in the Kentucky Mountains Improving? The Opinions of Community Knowledgeable and Ordinary Residents in Four Eastern Kentucky Counties, University of Kentucky, Agricultural Exp Sta RS-39, Jan 1974.</td>
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<td>2/71-6/75</td>
<td>V. Steelman</td>
<td>Louisiana State University</td>
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<td>Baton Rouge, LA 70803</td>
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2.08.12  RURAL DEVELOPMENT AND THE QUALITY OF LIFE IN THE RURAL SOUTH. Compile materials describing changes during the 1960's in counties and subareas of the South in a form useful to rural leaders. Determine major social, economic, and other changes not covered in available secondary materials. Determine changes since 1960 in quality of living for families in rural

W. Frese
Department of Rural Sociology
Mississippi State University
Mississippi State, MS 39762

2/71-6/75

G. O. Windham and T. Nontasak
Attitudes of Community Leaders in Six Mississippi Counties Concerning Changes in Selected Socioeconomic Activities During the Past Decade, published in the Rural Sociology in the South -- 1974.
areas of selected counties of the South. Relate changes in quality of rural living of families to changes identified from secondary and other sources. Determine patterns of change since 1960 in quality of living for selected families and individuals representing distinctive types in 1960. (MS-4102)

2.08.13 RURAL DEVELOPMENT AND THE QUALITY OF LIFE IN THE RURAL SOUTH. Compile materials describing changes during the 1960's in counties and subareas of the South in a form useful to rural leaders. Determine major social, economic, and other changes not covered in available secondary materials. Determine changes since 1960 in quality of living for families in rural areas of selected counties of the South. Relate changes in quality of rural living of families to changes identified from secondary and other sources. Determine patterns of change since 1960 in quality of living for selected families and individuals representing distinctive types in 1960. (NC-11079)

2.08.14 RURAL DEVELOPMENT AND THE QUALITY OF LIFE IN THE RURAL SOUTH. Compile demographic

G. C. McCann
Department of Sociology
& Anthropology
North Carolina State University
Raleigh, NC 27607

2/71-6/75


R. Calero
L. Muler

9/73-6/75

Natural Increase and Net Migration of Coffee Region
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<td>2.08.15</td>
<td>RURAL DEVELOPMENT AND THE QUALITY OF LIFE IN THE RURAL SOUTH. Obtain, analyze, and organize social and economic data from secondary and primary sources that will be useful to leaders in rural areas of the South in pursuing the goals of rural development. (SC-00970)</td>
<td>E. L. McLean, Clemson University, Clemson, SC 29631</td>
<td>7/71-6/75</td>
<td>E. L. McLean. County Knowledgeable Opinions of Change in the Quality of Life in the Rural South, 1962-1972 (S-79 Region Project), in Proceedings of the Rural Sociology Section, Southern Association of Agricultural Scientists, 1974.</td>
</tr>
<tr>
<td></td>
<td>and other secondary materials describing changes which have occurred since 1960 in counties and other subareas of the South in a form useful to rural leaders; and determine the changes that have taken place since 1960 in the quality of living for families in the rural areas of selected counties of the South. (PR-00276)</td>
<td>Department of Agricultural Economics &amp; Rural Sociology, University of Puerto Rico, Rio Piedras, PR 00928</td>
<td></td>
<td>Populations in Puerto Rico, 1960-70, Journal of Agriculture, University of Puerto Rico, Oct 1971. Análisis de la Explotacion Economica de Fincas de Cafe con un Area Total de 200 Cuerdas o Mas, Ext Exp Agr, University of Puerto Rico, Publication 74, Dec 1971. Análisis Economico de 151 Fincas Establecidas a Traves de la Administracion de Hogares de Agricultores, Est Exp Agr, University of Puerto Rico, Bol 232, Apr 1972. Análisis Socio-Economico del Programa de Fincas Individuales del Título VI de la Ley de Tierras, Est Exp Agr, University of Puerto Rico, Bol 236, Apr 1974.</td>
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</table>
2.08.16 RURAL DEVELOPMENT AND THE QUALITY OF LIFE IN THE RURAL SOUTH. Compile materials describing changes during the 1960's in counties and subareas of the South in a form useful to rural leaders. Determine major social, economic, and other changes not covered in available secondary materials. Determine changes since 1960 in quality of living for families in rural areas of selected counties of the South. Relate changes in quality of rural living of families to changes identified from secondary and other sources. Determine patterns of change since 1960 in quality of living for selected families and individuals representing distinctive types in 1960. (TN-00331)

C. L. Cleland
Department of Agricultural Economics
University of Tennessee
Knoxville, TN 37916

2.08.17 RURAL DEVELOPMENT AND THE QUALITY OF LIFE IN THE RURAL SOUTH. Compile demographic and other secondary materials describing changes which have occurred since 1960 in counties and other subareas of the South in a form useful to rural leaders. (TX-02791)

W. K. Upham
E. L. Copeland
Department of Rural Sociology
Texas A & M University
College Station, TX 77843

2.08.18 SOCIOCULTURAL AND SITUATIONAL FACTORS IN POVERTY IN SELECTED RURAL AREAS IN MISSISSIPPI. Construct a typology of Mississippi counties using selected quantitative indices relevant to socioeconomic development, such as median income, median education, percent rural and urban, percent white and nonwhite, median age, and other measures reflecting general socioeconomic conditions. This typology will serve two purposes: reflect socioeconomic changes between 1960 and 1970

C. R. Sollie
W. Frese
Department of Rural Sociology
Mississippi State University
Mississippi State, MS 39762

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<tr>
<td></td>
<td>2.08.19</td>
<td>SOCIAL FACTORS IN THE DEVELOPMENT AND USE OF KENTUCKY'S NATURAL RESOURCES FOR OUTDOOR RECREATION.</td>
<td>Determine current patterns and trends in outdoor recreation use in Kentucky and implications for future outdoor recreation needs and utilization. Measure attitudes toward outdoor recreation programs. Assess social and demographic consequences of projected resource development and recreational projects. Develop propositions relating attitudes and values toward leisure and outdoor recreation to users and potential users. (KY-00813)</td>
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Wade H. Andrews. Summary of Sociological Studies of Water Resources Dealing with Social Goals and Quality of Life: The Strawman and Other Studies. The Social Well-Being and Quality of |
2.09 Major Area: PEOPLE BUILDING

Minor Area: PUBLIC POLICY

2.09.1 AN ECONOMIC AND SOCIOLOGICAL STUDY OF AGRICULTURAL LABOR IN THE NORTHEAST STATES. Objectives 1 through 7 of the regional NE-58 project proposal.

D. C. Ruesink
C. F. Fritsch
D. E. Wright
Department of Agricultural Economics


C. F. Fritsch. Estimates of Key Component Cost Levels and Increased Claims Loads


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<th>PERFORMANCE PERIOD</th>
<th>PUBLICATIONS</th>
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2.10 Major Area: PEOPLE BUILDING

Minor Area: SOCIOLOGICAL ASPECTS OF SMALL FARMS

No research resumes available.

2.11 Major Area: PEOPLE BUILDING

Minor Area: MISCELLANEOUS AND UNCLASSIFIED

No research resumes available.
3.01 Major Area: ECONOMIC DEVELOPMENT                  Minor Area: HOLDING AND ATTRACTING INDUSTRY

3.01.1 EMPLOYMENT IMPACT OF INDUSTRIAL PARKS IN RURAL AREAS OF GEORGIA. Determine the types of firms that might locate in industrial parks in rural Georgia (emphasis on poverty areas). Estimate differential cost of combating pollution between rural and urban locations for specific industries. Measure the employment created by industrial parks in rural areas. Separate total employment into shifts in employment and net new employment. Divided shifts in employment into shifts from the farm to the nonfarm sector and shifts within the nonfarm sector. (GA-001146)

D. W. Parvin, Jr.  7/71-12/73
Department of Agricultural Economics
Georgia Agricultural Experiment Station
Experiment, GA 30212


3.01.2 POTENTIALS FOR RURAL ECONOMIC DEVELOPMENT. Identify and examine means for raising factor productivity. Identify activities for expanding and improving rural employment opportunities. Identify and evaluate those processes and forces that foster or hinder development, and arrange "development" alternatives in some ordering useful to decision-makers. (GA-00435)

S. J. Brannen  3/71-6/75
E. E. Brown
M. G. Laplante
Department of Agricultural Economics
University of Georgia
Athens, GA 30601

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<td>3.03</td>
<td>Major Area: ECONOMIC DEVELOPMENT</td>
<td>Minor Area: INCOME AND EMPLOYMENT EFFECTS OF RURAL INDUSTRY</td>
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<tr>
<td>3.03.1</td>
<td>ECONOMIC FEASIBILITY OF PRODUCING AND MARKETING HANDICRAFT AND SOUVENIR ITEMS IN THE VIRGIN ISLANDS. Determine the structure size and nature of the tourist trade in the Islands. Estimate the magnitude of the market for island produced handicrafts and art objects. Determine the probable cost of locally produced handicraft, souvenir and art objects in relation to the cost of procuring such</td>
<td>F. B. Sands</td>
<td>Virgin Islands Agricultural Experiment Station Kingshill St. Croix, VI 00850</td>
<td>5/73-12/75</td>
<td>None reported.</td>
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<td>the Louisiana Forest Industry as to available resources and contribution to</td>
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<td>Baton Rouge, LA 70803</td>
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<td>the Louisiana economy and the outlook for future growth. Ascertain forest</td>
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<td>acreage, rate of severance, rate of replacement, level of employment,</td>
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<td>income, and contribution to rural development. (LA-01624)</td>
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<tr>
<td>3.04.3</td>
<td>POST-PROJECT EVALUATION OF THE CHEAHA CREEK WATERSHED DEVELOPMENT UNDER</td>
<td>H. A. Clonts, Jr.</td>
<td>Department of Agricultural Economics &amp; Rural Sociology</td>
<td>1/73-6/75</td>
<td>L. D. Cain. Implications of Watershed Development on Land Value and Land</td>
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<tr>
<td></td>
<td>PUBLIC LAW 366. Measure cost benefits of watershed development and economic</td>
<td></td>
<td>Auburn University</td>
<td></td>
<td>Owner Attitudes, master's thesis, Auburn University. R. W. McCord and H. A.</td>
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<tr>
<td></td>
<td>impact on county; determine landowner attitudes with emphasis on cost</td>
<td></td>
<td>Auburn, AL 36830</td>
<td></td>
<td>Clonts. Land Use Divisions: Who Makes Them and How?, Alabama Agribusiness,</td>
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<tr>
<td></td>
<td>sharing and environmental quality; estimate changes in land-use patterns</td>
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<td>Vol 13, No. 1.</td>
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<td></td>
<td>and values after project completion; compare project evaluation procedures</td>
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<td></td>
<td></td>
<td>R. D. Pepper and H. A. Clonts. The Economy of Talladega County, Alabama:</td>
</tr>
<tr>
<td></td>
<td>revised by Water Resources Council with procedures under which project was</td>
<td></td>
<td></td>
<td></td>
<td>An Input-Output Analysis with Special Reference to the Effects of Watershed</td>
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</table>
objects. Assess the impact the development of the above industry might have on the Virgin Island economy. (VI-00007)

| 3.03.2 | EVALUATION OF THE FUNCTIONING OF FARM LABOR MARKETS. Determine the characteristics of the rural population as to capabilities and employability; estimate current and potential demand for labor; and suggest alternative policies and programs for increasing the economic role played by currently low income people. (AR-00552) |
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<table>
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<tr>
<th>3.04</th>
<th>Major Area: ECONOMIC DEVELOPMENT Minor Area: INCOME AND EMPLOYMENT EFFECTS OF NATURAL RESOURCE DEVELOPMENT</th>
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<tr>
<td>3.04.1</td>
<td>EMPLOYMENT AND INCOME EFFECTS OF INVESTMENTS IN NATURAL RESOURCES IN GEORGIA. Estimate the changes in economic activity associated with a natural resource investment in PL 566 small watershed projects, rivers, and harbors projects, private developments and others as appropriate. Estimate the changes in employment levels and income distribution resulting from investments in above. (GA-00412)</td>
</tr>
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</table>
3.04.4 REGIONAL INCOME AND EMPLOYMENT EFFECTS OF INVESTMENTS IN NATURAL RESOURCES. To estimate the impact of natural resource investments on the composition of economic activities, employment levels and distribution of income with reference to the problems of economic growth, low income, unemployment and underemployment. (AR-715)

J. M. Redfern
Department of Agricultural Economics and Rural Sociology
University of Arkansas
Fayetteville, AR 72701

7/61-6/69

3.04.5 REGIONAL INCOME AND EMPLOYMENT EFFECTS OF INVESTMENTS IN NATURAL RESOURCES. Delineate areas on basis of natural resource investments and identify variables determining effectiveness of investments on area growth. Evaluate effects of investments on composition of economic activity, employment, and income. Evaluate and compare effects of alternative natural resource investments on growth in employment and income. (FL-AS-01473)

B. R. Eddleman
E. T. Leohman
R. D. Emerson
Department of Agricultural Economics
University of Florida
Gainesville, FL 32601

7/69-6/74


Income Growth Among Areas of the Southeast. For publication as a Cooperative Florida Agr Exp Sta and NRED-ERS-USDA regional research bulletin), 52 pp.


7/69-6/74

3.04.6 REGIONAL INCOME AND EMPLOYMENT EFFECTS OF INVESTMENTS IN NATURAL RESOURCES. Delineate areas on the basis of various types of natural resource investments and other criteria; and identify the variables determining the effectiveness

J. E. Waldrop
Department of Agricultural Economics
Mississippi State University
Mississippi State, MS 39762

7/69-6/74

of natural resource investments in stimulating area adjustments and growth. Evaluate the economic effects of selected natural resource investments in delineated areas with specific attention given to the effects of the kinds and amounts of investments on the composition of economic activity, employment, and level and distribution of income. Evaluate and compare the effects of alternative kinds and amounts of natural resource investments on growth in employment and income. (MS-4301)

3.04.7 REGIONAL INCOME AND EMPLOYMENT EFFECTS OF INVESTMENTS IN NATURAL RESOURCES. Evaluate the economic effects of investments in water resources in the Tennessee Valley with specific attention given to the effects upon the composition of economic activity, employment, and levels and distribution of income. (TN-00303)

J. A. Martin
Department of Agricultural Economics
University of Tennessee
Knoxville, TN 37916

3.04.8 A WOODS LABOR SITUATION ANALYSIS OF NAGODOCHES AND ANGELINA COUNTIES, TEXAS. Determine the labor situation with regard to forest production in Nagodeches and Angelina Counties, Texas. (TX-Y-74-001)

J. D. Lenhart
M. Guthrie
School of Forestry
Stephen F. Austin State University
Nagodeches, TX 75961

3.05 Major Area: ECONOMIC DEVELOPMENT
Minor Area: ALTERNATIVE USES OF NATURAL RESOURCES

No research resumes available.
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<tr>
<th>3.06</th>
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<th>Minor Area: RURAL RECREATION ENTERPRISES</th>
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<tr>
<td>3.06.1</td>
<td>AN ECONOMIC ANALYSIS OF THE DEMAND FOR LAND AND/OR WATER-BASED OUTDOOR RECREATION. Construct demand functions for those types of outdoor recreation which require the use of land and/or water. Analyze consumer preferences for outdoor recreation activities and facilities. (TX-01557)</td>
<td>I. W. Schmedemann 2/65-6/72 None reported.</td>
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<td></td>
<td></td>
<td>R. J. Freund Department of Recreation &amp; Parks Texas A &amp; M University College Station, TX 77843</td>
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<td></td>
<td></td>
<td>Department of Agricultural Economics &amp; Rural Sociology Auburn University Auburn, AL 36830</td>
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<tr>
<td>3.06.3</td>
<td>EXPANSION OF EMPLOYMENT OPPORTUNITIES IN RURAL RECREATIONAL ENTERPRISES. Determine resource characteristics, income and employment levels, quality of attractions, factors which influence the success of various enterprises, compare the ability of enterprises to compete for traditional resources and project needs for additional recreational enterprises. (GA-00436)</td>
<td>E. E. Brown 1/70-6/74 L. E. Zipperer. An Economic Analysis of the Marine Charter Boat Fishing Industry in Georgia, Apr 1974.</td>
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<tr>
<td></td>
<td></td>
<td>F. J. Holemo Department of Agricultural Economics University of Georgia Athens, GA 30601</td>
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<tr>
<td>3.06.4</td>
<td>RECREATION RESOURCES PLANNING AND DEVELOPMENT IN RURAL-URBAN TRANSITION AREAS OF TEXAS. Evaluate the incidence and implications of water-oriented encroachment of urban-like uses upon rural areas, potential recreation sites, hazardous sites, inexperienced governmental and other institutions, and economic development opportunities resulting from recreation, more comprehensive benefit-cost evaluations, including subsequent public service costs, in actively developing situations representative of the overall problem, and enlist cooperation of relevant agencies and organizations. (TX-01658)</td>
<td>F. W. Suggitt, C. S. Van Doren, Department of Recreation &amp; Parks, Texas A &amp; M University, College Station, TX 77843</td>
</tr>
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</table>

| 3.07 | Major Area: ECONOMIC DEVELOPMENT | Minor Area: TECHNOLOGY FOR SMALL FARMS |
| 3.07.1 | CATFISH BREEDING, PRODUCTION AND MARKETING. Determine optimal nutritional values such as protein and lipid requirements of channel catfish under different cultural systems (ponds, raceways, and cages) and the effect of these treatments on limnology conditions. Brood stock for the experiments will be genetically selective. Test different harvesting methods, transporting methods and the ultimate process of the products. Determine the expense production costs, and profits of different size catfish operations. (MS-0801) | R. E. Reagan, D. E. Wesley, R. P. Wilson, Department of Wildlife & Fisheries Science, Mississippi State University, Mississippi State, MS 39762 | 7/72-6/75 | D. B. Beasley and J. B. Allen. A Characterization of the Effluent from Commercial Catfish Ponds, American Society of Agricultural Engineers, June 1974. M. S. Choudhry, J. O. Hearnberger, and G. R. Ammerman. Home Canning Channel Catfish, MAFES Research Highlights, Vol 37(11), Nov 1974. |
COSTS, RETURNS AND ECONOMIC FEASIBILITY OF LIVESTOCK AND DAIRY PRODUCTION IN THE VIRGIN ISLANDS. Determine economic costs, returns, and economic feasibility of beef, swine, poultry and dairy enterprise operations in the Virgin Islands with special emphasis upon St. Croix. (VI-00002)  

W. I. Park  
P. S. Dhillon  
Virgin Islands  
Agricultural Experiment Station  
Kingshill St. Croix, VI 00850


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<tr>
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<th>PERFORMANCE PERIOD</th>
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<tr>
<td>3.07.3 THE DEVELOPMENT AND TESTING OF A MANAGEMENT HANDBOOK FOR ECONOMIC OPPORTUNITY COOPERATIVES. Ascertain ways and means of improving the organization, operation, and management of Economic Opportunity Cooperatives; and prepare a Management Handbook for the use of Economic Opportunity Cooperatives; and validate the contents of the Management Handbook by getting the evaluation and counsel of selected cooperative members, officers and managers, Farmers Home Administration personnel, and Agricultural Extension personnel, and others. (MS-1969-01)</td>
<td>J. A. Morris</td>
<td>6/69-6/74</td>
<td>None reported.</td>
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<td>3.07.4 ORGANIZATION OF FAMILY-TYPE FOOD-CROP FARMS. Identify food crops, develop input-output data for such crops, and determine profitable combinations of food-crop enterprises for representative family-type farms in selected areas. (PR-00277)</td>
<td>G. E. Pringle</td>
<td>9/72-10/73</td>
<td>None reported.</td>
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<tr>
<td>3.07.5 POTENTIAL AND ALTERNATIVES FOR LAND-HOLDING, RURAL NONFARM RESIDENTS AND PART-TIME FARMERS IN PIEDMONT, GEORGIA. Determine the potential for increasing the incomes of land-holding rural residents with nonfarm jobs. (GA-M-1120)</td>
<td>D. W. Parvin, Jr.</td>
<td>3/71-4/73</td>
<td>M. R. Holmes and D. W. Parvin, Jr. Results and Implications of Mixed Integer Programming of Small Farm Organizations for Part-Time Farmers in Piedmont</td>
</tr>
</tbody>
</table>
3.07.6 TYPES OF BROILER PRODUCTION AND MARKETING CONTRACTS: EFFECTS ON GROWER RETURNS.
To determine types of production and marketing contracts used by broiler growers. To determine grower costs and returns from producing and marketing broilers under various types of contracts. To develop up-dated production and marketing cost data for grower use in planning entry to, or expansion of, the broiler enterprise. (AR-00803)

W. J. Windham
Department of Agricultural Economics
University of Arkansas
Fayetteville, AR 72701

1/74-12/75
None reported.

3.08 Major Area: ECONOMIC DEVELOPMENT
Minor Area: ENTERPRISES FOR SMALL AND PART-TIME FARMS

3.08.1 CATFISH FARMING AS SUPPLEMENTAL INCOME IN RURAL VIRGINIA: USE OF CATFISH STRAINS TO INCREASE PRODUCTION. Evaluate strains of channel catfish to select one best adapted to use in Virginia. Further test the cage culture technique for growing channel catfish in ponds. (VA-0616191)

R. T. Lackey
C. B. Schreck
Department of Fisheries & Wildlife
Virginia Polytechnic Institute & State University
Blacksburg, VA 24061

7/72-9/74


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<td>THE VIRGIN ISLANDS. Determine costs, returns and economic feasibility of forage and feed production and processing for use by the livestock and dairy industries in the Virgin Islands thereby reducing the need for feed imports. (VI-00006)</td>
<td>Experiment Station Kingshill St. Croix, VI 00850</td>
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<td>3.08.4</td>
<td></td>
<td>THE ECONOMICS OF PRODUCTION AND MARKETING OF POND-CULTURED CATFISH. Determine the costs and returns associated with the production of pond-cultured catfish in Louisiana. Relate size of operation to cost and returns to determine whether economics of size exist at present levels of production among Louisiana catfish producers. Identify and study existing market outlets, their size and quality requirements, prices paid, and efficiency and adequacy in meeting the marketing needs of producers of pond-cultured</td>
<td>L. J. Guedry</td>
<td>Department of Agricultural Economics &amp; Agribusiness Louisiana State University Baton Rouge, LA 70803</td>
<td>7/70-12/71</td>
<td>None reported.</td>
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catfish. Utilize the present study to identify areas of further research needs in the pond-cultured catfish industry in the state.  (LA-BO-1537)

3.08.5 FEASIBILITY OF PRODUCING TOMATOES FOR MARKET IN THE AVOYELLES PARISH AREA OF LOUISIANA. Develop budgets for production of tomatoes on small farms depending primarily on family labor, and derive an approximate supply potential for the Avoyelles Parish area. Examine market prospects for tomatoes produced in the area. Determine kinds and costs of marketing facilities needed. Evaluate alternative marketing procedures, including methods of selling, and requirements of different kinds of buyers.  (LA-BO-1583)

3.08.6 FEEDER PIG PRODUCTION FOR LOW-INCOME RURAL DWELLERS IN SOUTHWEST MISSISSIPPI. Investigate mating systems, breeding management, nutritional programs, disease and parasite control, and marketing methods for maximizing profits from a feeder pig operation.  (MS-3205)

3.08.7 IMPROVED MARKETING OF PRESENT AND ADDITIONAL FRUITS AND VEGETABLES IN THE VIRGIN ISLANDS. Examine more economical and efficient ways of marketing Virgin Island produced fruits and vegetables.  (VI-00003)

3.08.8 INTENSIVE COMMERCIAL CULTURE OF CATFISH IN TEXAS WATERS. Determine optimal production procedures to raise net income of rural Texas farms by using commercial production of catfish as an
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<tbody>
<tr>
<td>3.09.1 AN ANALYSIS OF RURAL DEVELOPMENT IN THE SOUTHEASTERN UNITED STATES. Construct a statistical model of rural development in which the contribution of explanatory variables related to economic growth can be quantified. Examine the role of farm production in economic growth. Delineate the policy implications of the relationships indicated in the statistical model. (SC-00980)</td>
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</table>
3.09.3 DELINEATION OF FUNCTIONAL ECONOMIC AREAS IN TENNESSEE. Identify and delineate functional economic areas within and adjacent to the State of Tennessee. (TN-00327)

J. A. Martin 2/71-6/75
C. R. Kerley
Department of Agricultural Economics
University of Tennessee
Knoxville, TN 37916

None reported.
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</table>
3.09.5 ECONOMIC DEVELOPMENT OF THE EASTERN SHORE OF VIRGINIA. Appraise the potential for economic development on the eastern shore of Virginia. Describe and analyze the physical and economic input-output relationships of the agriculture-agribusiness sector. Collect and modify the input-output coefficient of the seafood, the recreation and tourism, and the industrial sectors of the area. Construct a model and evaluate alternative economic development plans. (VA-0616155)

D. E. Kenyon
R. L. Chambliss, Jr.
R. G. Kline
Department of Agricultural Economics
Virginia Polytechnic Institute & State University
Blacksburg, VA 24061

2/71-6/74


3.09.6 THE ECONOMIC IMPACT OF CHANGES IN THE INCOME FROM COTTON, PEANUTS, AND TOBACCO ON COMMUNITIES IN GEORGIA. Determine factors associated with changes in income from cotton, peanuts, and flue-cured tobacco in specific areas in Georgia; ascertain the economic effects of agribusiness firms from changing incomes for each crop; determine effects of varying crop values on utilization of other resources in area. (GA-01119)

D. H. Carley
R. F. Anderson
Department of Agricultural Economics
Georgia Agricultural Experiment Station
Experiment, GA 30212

7/71-6/75

None reported.

3.09.7 ESTIMATES OF RELATIONSHIPS AMONG SECTORS OF MISSISSIPPI'S ECONOMY. Estimate output, income, and employment multipliers for the Mississippi economy. Assess accuracy of estimated multipliers by alternative prediction methods. Estimate changes in technical coefficients since 1948 to adjust current estimates for likely future trends. (MS-4402)

F. H. Tyner
J. E. Waldrop
Department of Agricultural Economics
Mississippi State University
Mississippi State, MS 39762

5/73-12/75

None reported.
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<tr>
<td>3.09.8</td>
<td>GROWTH POTENTIALS AND BALANCED DEVELOPMENT REQUIREMENTS IN THE WEST PIEDMONT PLANNING DISTRICT OF VIRGINIA. Determine interindustry relationships of the diseconomy and measure effects of sector changes. Identify agricultural and industrial potentials for increasing jobs and incomes and estimate their impacts. Analyze alternative systems of providing greater equity in the delivery of or accessibility to essential community services. Evaluate for varying levels of growth changes in tax bases, public revenues, cost of public services, income levels, and quality of living. (VA-0646226)</td>
<td>M. C. Conner</td>
<td>Department of Agricultural Economics Virginia Polytechnic Institute &amp; State University Blacksburg, VA 24061</td>
<td>1/74-6/75</td>
<td>None reported.</td>
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<td>3.09.9</td>
<td>INDICATORS OF ECONOMIC WELL BEING IN VIRGINIA. Develop the theoretical arguments leading to a complete identification of the components of economic well-being. Analyze the data needs and statistical methods necessary for constructing an index of economic well-being. Assess and compare the levels of economic well-being within Virginia by county and independent city with respect to a single index and individual components of economic well-being. (VA-0200350)</td>
<td>L. A. Shabman</td>
<td>Department of Agricultural Economics Virginia Polytechnic Institute &amp; State University Blacksburg, VA 24061</td>
<td>11/73-5/75</td>
<td>None reported.</td>
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<td>3.09.10</td>
<td>INTERINDUSTRY ANALYSIS OF THE ECONOMY OF TEXAS: EMPHASIZING THE REGIONAL ECONOMY OF NORTHEAST TEXAS. Estimate the structure of the economy of Northeast Texas and the State. Estimate the demand for</td>
<td>J. M. Sprott</td>
<td>Department of Rural Sociology Texas A &amp; M University College Station, TX 77843</td>
<td>9/70-7/74</td>
<td>J. T. Long and J. W. Adams. The Impact of Technological Innovations and Adjustments Within Agriculture on the Economic Growth and</td>
</tr>
</tbody>
</table>
3.09.11 THE MAGNITUDE AND SIGNIFICANCE OF RURAL FARM LABOR IN A CHANGING ECONOMY. Determine the presence or absence of surplus and/or underemployed farm laborers in Georgia; evaluate off-farm employment opportunities for farm people; evaluate the possibilities for rural economic growth. (GA-01071)

3.09.12 MIGRANT LABOR IN THE SOUTHERN COASTAL PLAIN OF SOUTH CAROLINA. Abstract not provided. (SC-00003)
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</table>
3.09.14 SOCIOECONOMIC FACTORS INVOLVED IN THE PERFORMANCE OF CONTRACT BROILER PRODUCERS.

Determine sociopsychological characteristics of contract broiler growers as well as physical resources and in-house management factors that contribute to or act as barriers to success. Develop criteria for use in identifying potentially successful broiler growers and help rural residents achieve success as contract broiler growers. (AL-00319)

R. N. Brewer
M. White
Department of Poultry Science
Auburn University
Auburn, AL 36830

4/71-6/74

Factors Associated with Success of Contract Broiler Growers in Alabama, Highlights of Agricultural Research 21(1):14.

3.10 Major Area: ECONOMIC DEVELOPMENT

Minor Area: INCOME AND EMPLOYMENT EFFECTS OF TAXATION AND REGULATIONS

3.10.1 ECONOMIC IMPACT OF PROPERTY TAXES ON AGRICULTURAL LAND USE IN GEORGIA. Determine and analyze the effects of (a) the relative burden and benefits of property taxes between urban and rural areas in Georgia, i.e., who is paying the tax and who is getting the benefits; (b) the impact of changes in property taxes on resource use in agriculture; (c) the impact of property taxes on the rate of planting of new forests and on the rate of cutting existing timber. Provide recommendations of alternative tax schemes based on the empirical findings in (a), (b), and (c) above. (GA-00434)

F. C. White
Department of Agricultural Economics
University of Georgia
Athens, GA 30601

3/71-6/74

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<th>RESEARCHERS</th>
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<td><strong>3.10.2 EFFECTS OF SELECTED CHANGES IN REAL PROPERTY TAX SYSTEM ON LAND USE AND TAX REVENUES IN SOUTH CAROLINA.</strong> Estimate and compare the effects of real property taxation on agricultural land use in three counties selected from three type-of-farming areas, under three assessment systems—market value before reassessment, market value after reassessment, and preferential assessment of agricultural land on a use-value basis. Estimate the effects of the three assessment systems on the net farm income and the movement of land out of agriculture; and estimate the shift of real property tax from farmers to other classes of taxpayers under several preferential assessment schemes, some of which contain a roll-back feature. (SC-00986)</td>
<td>B. L. Dillman</td>
<td>Department of Agricultural Economics &amp; Rural Sociology</td>
<td>7/71-6/73</td>
<td>B. L. Dillman and W. I. Golden. <em>Use Value Assessment of Farm Land in Charleston County, South Carolina, South Carolina Agricultural Exp Sta, Bulletin 568, Jan 1974.</em></td>
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</table>
tax plans in terms of revenues, costs, and economic impact. (MS-4009)


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<tr>
<th>3.11 Major Area: ECONOMIC DEVELOPMENT</th>
<th>Minor Area: MISCELLANEOUS AND UNCLASSIFIED</th>
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<tr>
<td>3.11.1 CENTRALIZATION, MAINTENANCE, AND ANALYSIS OF BASIC ECONOMIC DATA RELATING TO AGRICULTURE. Centralize and maintain in this department basic economic statistics pertaining to Mississippi agriculture so that a continuous flow of widely divergent requests for data which comes to this department can be answered promptly. (MS-4401)</td>
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<tr>
<td>J. G. Hamill 8/71-6/75 Department of Agricultural Economics Mississippi State University Mississippi State, MS 39762</td>
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<tr>
<td>4.01</td>
<td>Major Area: ENVIRONMENTAL IMPROVEMENT</td>
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<td>4.02</td>
<td>Major Area: ENVIRONMENTAL IMPROVEMENT</td>
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</table>
| 4.02.1       | BIONOMICS, TAXONOMY AND CONTROL OF INSECT PESTS IN OUTDOOR RECREATIONAL AREAS. Study the taxonomy and distribution of pestiferous insects in outdoor recreational areas, determine the ecological factors concerned with the behavior and seasonal abundance, develop new means of control and develop new ways to alter human refuse to make it unattractive to these pests. (OA-01112) | J. O. Howell  
Department of Entomology  
Georgia Agricultural Experiment Station  
| 4.02.2       | FOREST-BASED EXPERIENCE AND OPPORTUNITIES FOR RURAL BLACK AMERICANS. To enhance the functional significance of the forest environment for black residents of the rural South. (SO-1902) | I. J. Nelson  
Institute Allevamento Vegetale  
Tuskegee Institute  
| 4.02.3       | HUMAN FACTORS IN WETLAND RESOURCE DEVELOPMENT. Provide background information about residents of coastal areas | A. L. Bertrand  
K. W. Paterson  
Department of Rural | 11/72-10/75 | K. W. Paterson, J. L. Lindsey, and A. L. Bertrand. The Human Dimension of |
specifically and the state generally which will be useful in the development of wetland resources. Three specific goals are planned: determine and analyze the demographic characteristics of residents in the coastal parishes, determine knowledge and attitudes of local influential and assess their potential role in wetland resources development, and ascertain level of knowledge and attitudes of Louisianians generally towards wetland resources development. (LA-80-1620)

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<tr>
<th>4.03</th>
<th>Major Area: ENVIRONMENTAL IMPROVEMENT</th>
<th>Minor Area: FORESTS AND WILDLIFE</th>
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</table>
| 4.03.1 | ECOLOGY, DISTRIBUTION AND ECONOMIC USE IN NORTHERN FLORIDA AS FISH BAIT OR HEXAGENIA MUNDA EATON. Abstract not provided. (FL-04087) | W. L. Peters  
Department of Animal Science  
Florida A & M University  
Tallahassee, FL 32307  
5/69-6/71  
None reported. |
| 4.03.2 | MARKET RESPONSES OF PRIVATE FOREST LANDOWNERS. Determine the characteristics of small, private forest landowners associated with recommended forestry practices; the extent of absentee ownership, fragmentation and turnover of forest land in Georgia; and factors that influence decisions to hold or sell merchantable timber, and the volume of merchantable timber being held off the market. (GA-00433) | F. J. Holemo  
Department of Agricultural Economics  
University of Georgia  
Athens, GA 30601  
7/71-6/74  
Forest Assistance Programs and the Private Forest Landowner in Northeast Georgia, master's thesis. |
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<td>4.04.1</td>
<td>THE DISTRIBUTION OF OWNERSHIP OF RURAL LANDS IN FLORIDA. Determine the physical areas of all rural lands held under both public and large-scale private ownership in each county of Florida; ascertain the amount and characteristics of land holdings in each of the several classes of ownership now existing (Federal, state, county, municipal, corporate, and large-scale individual holdings--1,280 acres or over) and approximate the residual amount of rural lands not otherwise in use. (FL-AS-01503)</td>
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<td>4.06</td>
<td>Major Area: ENVIRONMENTAL IMPROVEMENT</td>
<td>Minor Area: MISCELLANEOUS AND UNCLASSIFIED</td>
<td>R. G. Dudley, Forest Resources, University of Georgia, Athens, GA 30601</td>
<td>2/66-6/71</td>
<td>None reported.</td>
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<tr>
<td>4.06.1</td>
<td>RELATIONSHIPS BETWEEN PESTICIDES AND GEORGIA FARM POND ECOSYSTEMS. Study is to provide answers to problems of the relationship of pesticides and farm pond ecosystems. (GE-00392)</td>
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No research resumes available.
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