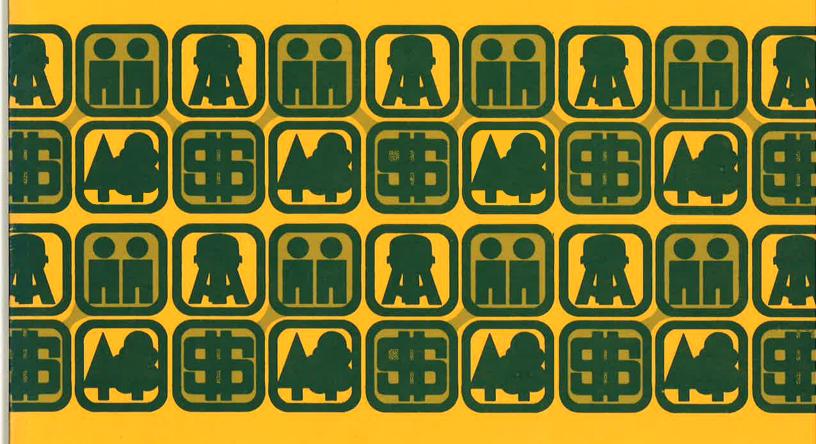
Research Needs in Rural Development



Report of the Southern Regional Rural Development Ta/k force

REPORT OF THE SOUTHERN REGIONAL RURAL DEVELOPMENT TASK FORCE

Prepared by a Joint Task Force of

The Southern Agricultural Experiment Stations The Southern Regional Rural Development Research Council The Land Grant Colleges of 1890 The Southern Cooperative Extension Services The United States Department of Agriculture

> The Southern Rural Development Center Private Industry

> > July 1974

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This Rural Development Task Force is described as a basic functional unit for ascertaining research needs in the Southern region and as a primary source of regional planning information. Specifically, the purpose of this Task Force is to:

- 2.
- each priority area.
- 3.
- 4. sources.
- 5. of a written report.

The Southern Regional Rural Development Task Force first met on March 5 and 6, 1974. Individual assignments were carried out following this meeting, and the Task Force reconvened on May 21 and 22. At this second meeting the Task Force developed the recommendations presented later in this report.

PREFACE

1. Determine principal rural development research needs in the South. This determination requires: (a) a review of current research, (b) an assessment of immediate and longterm problems in rural areas of the South, (c) an evaluation of these problems in terms of their potential impact and the ability of research results to assist in their solution, and (d) assignment of priorities to research needs. Suggest research approaches likely to be productive in

Identify research inputs needed to accomplish the desired results, including SMY's needed by each discipline involved. Recommend any needed reallocations of current research re-

Present the results developed by the Task Force in the form

A review draft of the report was written by Fred Tyner, circulated to Task Forces members for additional suggestions, and revised for submission. The report does not explicitly follow the format suggested by the Planning Committee. It was felt that the complexity of linkages and relationships in rural development research problems did not easily lend themselves to "individual problem presentation." However, we feel that the major issues discovered in our research review and in discussions regarding recommendations are clearly visible in the format employed.

The Task Force membership represented the state agricultural experiment stations; the 1890 land grant colleges; the Economic Research Service, U.S.D.A.; and industry:

Dr. A. D. Seale (Task Force Co-Chairman) Associate Director Mississippi Agricultural and Forestry Experiment Station Mississippi State, MS | 39762 -

Dr. Leon B. Perkinson (Task Force Co-Chairman) Economic Development Division, ERS-USDA Department of Economics North Carolina State University Raleigh, NC 27607

Dr. Tom Aaron, Assistant Director Cooperative Extension Service University of Georgia Athens, GA 30601

Mr. Sam H. Booker Vice President for Marketing Alabama Power Company P. O. Box 2641 Birmingham, AL 35291

Dr. William C. Boykin, Associate Director Southern Rural Development Center Alcorn State University Lorman, MS 39096

Dr. James H. Copp Associate Head Department of Agricultural Economics and Rural Sociology Texas A & M University College Station, TX 77840

Dr. Lynn Daft Assistant Deputy Administrator Economic Research Service, USDA Washington, D. C. 20250

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TASK FORCE MEMBERS

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Dr. Bernal L. Green Cooperative Agent, Economic Development Agricultural Experiment Station University of Arkansas Fayetteville, AR 72701

Mr. William W. Linder, Director Southern Rural Development Center Mississippi Cooperative Extension Service Mississippi State, MS 39762

Dr. Howard F. Robinson, Director Research Administration North Carolina Agricultural and Technical State University Greensboro, NC 27411

Dr. Fred H. Tyner, Chairman and the state of Southern Regional Rural Development Research Council Department of Agricultural Economics Mississippi Agricultural & Forestry Experiment Station the second se Mississippi State University Mississippi State, MS 39762

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A PERSPECTIVE ON RURAL DEVELOPMENT PROBLEMS, NEEDED RESEARCH, AND CLIENTELE $\underline{1}/$

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The term rural development has generally been interpreted as encompassing community development, economic resource development, human resource development, and, in certain cases, natural resource development. It may help to define the rural development process more clearly if we consider what it is supposed to do. The President's Task Force on Rural Development defines the purpose of rural development as:

...to create job opportunities, community services, a better quality of living, and an improved social and physical environment in the small cities, towns, villages, and farm communities in rural America. [12] The degree of commitment to achieving the purpose of rural development is noted in Title IX [Section 901 (a)] of the Agricultural Act of 1970:

The Congress commits itself to a sound balance between rural and urban America. The Congress considers this balance so essential to the peace, prosperity, and welfare of all our citizens that the highest priority must be given to the revitalization and development of rural areas. The USDA Regulations for Programs under Title V of the Rural Development Act of 1972 interpret the overriding purpose of rural

1/This section draws heavily on [14, 16, 18 and 19].

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TABLE

Problems

development as "to encourage and speed economic growth in rural areas, to provide for jobs and income required to support better community facilities and services, to improve the quality of rural life, and to do so on a self-earned, self-sustaining basis."

Realization of these goals will be difficult. To gain some perspective on the complexity of the situation, some of the problems facing rural areas are briefly enumerated. Broad problem categories include jobs, education, health, social institutions, and community facilities. Specific questions (but still too general for action) are: Should people be moved to jobs or should jobs be moved to people? Are skills and education such that gainful employment can be found? What balance should there be between general and vocational education? Where should schools be located? How can education be financed and who should finance it? What are "reasonable" levels for health services? What kinds of welfare programs are needed? How can industrial development be speeded up? How does industrialization relate to the problems of zoning, open space, and environmental pollution? If industry locates in an area, what will be the increased demands for housing, water and sewers, school facilities, health services, churches and other social institutions, police and fire protection, streets and highways, and other community facilities?

The changing structure and organization of commercial agriculture (declining farm numbers, increasing farm size,

vertical integration, contract farming, conglomerates, etc.) has been one of the catalysts for change in rural areas. The process of agricultural development has been speeded by technological improvements (herbicides, pesticides, larger machines, etc.) which have, in turn, reduced the number of farm operators and laborers needed. Smaller towns and communities have generally suffered as the farm work force has declined. Business volumes and incomes have declined. Capital gains in farm land values have been offset by capital losses in rural towns and communities. The following statements exemplify this situation:

a rapid increase in farm size and a reduction in farm numbers appear to result in stagnation or decline in the local economy rather than growth. [9] ... An outflow of labor from agriculture has long been a characteristic of the process of economic development everywhere. From a narrower economic point of view it is desirable, but does raise serious social problems if the surplus labor released by the farm sector moves at the same time from the country to the city. As long as agriculture is the main source of income in rural areas the outflow from agriculture may indeed stimulate further outflows from sectors dependent on agriculture.

These ideas have been articulated by many persons speaking on policy issues, but they are so central to rural development goals

[7]

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... in areas without an alternative to agriculture for employment,

that they bear repeating. As rural people migrate and economic decay results, there is also decay of a more subtle kind -- the "people left behind" may no longer have access to the kinds of public and private investments necessary for economic growth and social development. [11]

As agricultural development proceeds--providing food and fiber needs with fewer and fewer resources--resources are freed to produce other goods and services associated with a higher standard of living. The process requires that other activities be able to effectively use the farm resources thus released. [7] It is obvious that individuals displaced from farming employment by agricultural technology are worse off if they are unqualified by education and skills to gain employment in business or industry. [10]

Thus, the kind of adjustments needed hinge on expanded opportunities for resources in rural areas. These opportunities require investements in education, jobs in local areas, or assistance in finding jobs elsewhere. These are the broad topics of rural development.

We do not intend to de-emphasize the importance of commercial agriculture to the total economy or the difficulties confronting this sector. The decreasing number of voters tied to commercial agriculture and diminishing public support for farm programs are significant problems which this basic sector must face. However, more sophisticated delineation and recognition of the problems of rural residents is urgently needed. Justification exists for substantial public expenditures to evaluate the effects of public programs "before the fact" rather than continuing to adopt "might" work.

Clearly, a definitive statement as to what constitutes the "problems" of rural America is difficult to come by. That such a situation exists--when we all are aware of many problems--is perplexing. The very fact that there are <u>many</u> problems provides a key to the difficulty of arriving at a concise statement.

perplexing. The very fact that there are <u>many</u> problems provides a key to the difficulty of arriving at a concise statement. The process of finding acceptable answers to questions such as those posed above is further complicated by the elusivness of goals and the interrelatedness of social and economic activity. Given a single objective, we can find answers. However, we are dealing with multiple objectives, where one goal may be attained only at the expense of another. Pragmatically, we must concentrate on what appear to be the major goals-- and attempt to minimize detrimental effects on other objectives.

Needed Research Effort

Since the inception of the land grant college-agricultural experiment station-extension service system, we have had continous nationwide accumulation of research information concerned specifically with commercial agriculture. As a result, we have been able to delineate problems and focus sharply on many of the needs of this sector. However, we don't have this experience and accumulated research findings for other economic activity in rural areas; we can only discuss and view these problems in a broader sense. Much study and expertise will be required to perceive problems and develop

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rather than continuing to adopt programs on the slim chance that they

recommendations for action programs in rural development with anything approaching the sharpness of those for the commercial agriculture sector.

We recognize that managerial and legislative decisions, like time, wait for no man. If the desired objectives of rural development are to be achieved, decision makers must be provided with an idea of the instrumental variables and key relationships that can be influenced to bring about the objectives envisioned by supporters of "rural development" legislation. During the past several decades significant advances have resulted from the development by research, the dissemination by extension, and the adoption by farmers of outputincreasing technologies. These technologies may not have been fully exploited, particularly with respect to the development of the rural economy. If additional efforts are not directed toward more effectively organizing the use of our natural and human resources, the marginal benefits of additional technological developments on specific aspects of food and fiber production may be substantially diminished.

However, efforts to develop new technologies for increasing agricultural productivity should not be reduced. Rather, research and extension efforts must be directed toward problems of a broader scope. Information must be developed, disseminated, and used for decisions that are broader than which variety to plant, how much fertilizer to use, which chemical and how much to use, and other questions that relate to production practices for a particular enterprise.

Any number of published documents purport to describe the characteristics of low-income rural residents. These documents range from research publications, books, census, and other types of statistical reports to profound statements voiced by various individuals based upon a hurried visual scan of a particular low-income area. The information, while fairly describing existing conditions, is grossly inadequate for use in designing and evaluating action programs for alleviating such conditions. In most instances such information was collected to describe conditions rather than to prescribe improvements. Information collected, classified, and analyzed for the purpose of designing and evaluating alternative activities and programs must be developed if such an objective is to be successfully completed. Refinement of some of the existing descriptive information to a less aggregative level and the collection of additional information from primary and secondary sources classified by the focus of the developmental effort will be required.

More specifically, detailed descriptions of resources controlled by rural residents are needed. In this case, less attention should be paid to the emotional aspects of the situation and more attention should be devoted to people as resources--and improvement of the human resource is necessary if society's goals are to be realized. Knowledge of capital resources controlled is necessary in developing realistic programs. An estimate of the value of assets is an essential part of this information. Special attention should

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be devoted to availability, sources, and costs of credit when and if available to the rural poor.

The attitudes of rural prople concerning why they live in rural areas, why they are poor, their willingness to improve their income status and their aspirations if solutions were found for some of their current problems should be recorded. Most important in the final solution to employment and income problems is the attitude of rural people toward moving to locations where jobs are available. Rural people have shown great willingness to move to areas with more plentiful jobs, and the population residuals in some low income rural regions are largely elderly people who wisely chose not to move. Emphasis on job creation and more out-migration would miss the mark for this large group. It would be more useful to emphasize the discovery of deterrents to income improvement of various strata of rural people within the context of an affluent society.

During the past several decades, medical facilities and personnel have concentrated in larger metropolitan areas. While geographical isolation from medical facilities has created significant problems for many rural residents, the impact has been greatest upon the poor. If small towns and rural areas are to develop into viable and desirable places of residence, then an effective system must be developed for delivering medical services to rural areas. Furthermore, medical delivery systems devised must provide adequate medical services to low-income rural residents at costs substantially below the average cost of these service to the general public. A comprehensive description of the availability and use of medical services by lowincome rural residents will help determine additional services needed. Once needs are established, then alternative systems for medical services delivery must be evaluated based upon the criterion of providing a given level of services at minimum cost.

One of the major problems facing residents of rural areas is education. The Report of the President's Commission on Rural Poverty has stressed the need for improvement in rural schools, and numerous studies have pointed to the ways in which rural schools were inferior to urban schools. Present emphasis on rural development and improved infrastructure in rural areas further supports the importance of this topic. Plausible arguments indicate that the cycle of poverty can best be broken by upgrading the skill levels of people in rural areas through education. The major problems confronting decision makers concerned with provision of educational services in rural areas hinge on questions of (1) measuring the quality of the educational service provided, (2) determining what constitutes an acceptable quality level, and (3) providing this acceptable level of educational service most efficiently. A further item for consideration is the employmentrelated nature of educational alternatives available in the public educational system.

Rural water distribution and waste disposal systems have a direct and immediate impact on rural community development. They are essential to rural businesses and industries and to acceptable standards of family living.

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The absence of water distribution and waste disposal systems in many rural areas has resulted in lagging economic growth and lack of community viability. Communities must be provided with all essential services if the current undesirable economic and social trends are to be reversed.

During the past decade, many small towns and rural communities have taken advantage of the various federal loan and grant programs available for developing and improving water distribution and waste disposal systems. However, few sewer systems have been constructed in the open country, most of them having been developed in conjunction with small-town water systems.

As public programs are formulated and economic development strategies developed at state and local levels, lack of understanding of the complex economic interrelationships within the economy is a major stumbling block. Measures of the direct and indirect changes in the economy are needed to evaluate programs relating to human and natural resource development, poverty, and pollution control. Government agencies which plan to formulate strategic development programs need to know the effects of alternative actions to make the most effective use of all available resources. Planners need to determine whether or not a region has sufficient resources and the necessary locational advantages to accomplish the needed development.

Information on the effect of differing amounts and types of investments associated with alternative proposed programs on per capita income and employment must be determined for use

and consideration in a planning program. From a public policy standpoint, the economic feasibility of each alternative program must be determined along with the most efficient way to achieve specified goals with minimum resource requirements. Creating additional economic activity may involve capital expenditures beyond the capabilities of local groups. Some measure of the benefits expected from proposed activities will be required if public financing is to be obtained. Also, the long-term impact of various activities may make one more desirable than another. Restructuring of state and local governments and/or alterations in the functioning of these governments is receiving increased attention. Almost without exception, the reasons behind this interest are to make scarce tax dollars accomplish more by increasing governmental efficiency. Efficient use of tax dollars is especially critical in low-income areas where much of the support for public services comes from ad valorem taxes on rural land. Current heavy tax burdens on farmers and other rural landowners make this topic one of legitimate concern to those interested in economic affairs of agriculture and rural areas. Efficient use of tax dollars goes beyond how these dollars are used after they have been collected. We ought to ask other questions and search diligently for the answers to such questions as: (1) What public services should be financed by taxes, by what kinds of taxes,

and by taxes derived at what level of government? (2) What types

of taxes are available and what are the equity considerations associated with alternative tax plans? (3) What taxes are the most efficient from the standpoint of administration? (4) What new kinds of taxation methods might be found to replace antiquated and inequitable taxes? (5) What is the potential role of user charges as a substitute for some types of taxes?

Sucess in rural development will require research to: (1) supply the basic data needed to identify major problems, (2) outline possible alternatives and solutions, and (3) determine the available and needed resources for solution of these problems. Examples of the kinds of rural development problems that are amenable to research are to: $\frac{2}{}$

- 1. Develop information on the requirements for success in various occupational opportunities, including education, experience, and financial resources.
- 2. Develop programs to provide education, training, and retraining needed by rural youth and adults to take advantage of farm and non-farm employment opportunities.
- 3. Determine opportunities for operators of low-income farms to improve their situation through adjustments to improve farm income, combining farming with part-time non-farm work, or full-time at a non-farm job or business.
- 4. Delineate functional socio-economic areas for planning in order to achieve effective economic development in an area.
- 5. Develop economic indicators for rural areas, including resource bases and the locational advantage and disadvantage of these areas.

 $\frac{2}{\text{These}}$ are only a few of the problems listed in [4].

- including marketing facilities.
- rural communities.
- 9. institutions and services.
- and private services.
- rural society.

What are the needs in rural development research? It is the responsibility of researchers to utilize their limited resources as efficiently as possible, searching out answers to priority problems: Research priorities, assuming our goal is improving the socio-economic well-being of people in rural areas, should be oriented toward providing adequate training and other mobility aids for the people who wish to move to more urban areas and to providing opportunities and adequate facilities for those who remain in rural areas. [8,p.282]

> The challenging task in rural community development is to identify the nature, location, and extent of inequities falling on rural communities and on various population strata in them; then to evaluate and provide alternative means for alleviating or redressing these inequities. [5, pp. 50-51]

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7. Determine the potential for further development of agricultural and forest resources in rural areas,

Determine the potential contribution of improved transportation facilities in bringing desirable employment opportunities within commuting reach of residents of

Develop criteria for delineating functional socio-economic areas to provide effective and efficient community

10. Determine the adequacy, quality, and cost of education, health, sanitation, and water systems, and other public

11. Determine the organization and operational efficiency of local government units in meeting the needs of a modern

Clientele-Oriented Research

We should be more circumspect in selection of our research areas, asking: 'Who are the decision makers who most need data? What data do they need; and in what contexts" [1,p.135] With regard to clientele: "In dealing with the problems of rural development we can no longer afford to think in terms of our clientele as consisting only (or even primarily) of farmers." [2, p. 3] Four principal categories of clientele of extension workers are defined [3, p. 110] as: (1) citizens groups involved in making and implementing decisions that relate to community improvement and development; (2) key local citizens who influence or make decisions relevant to the community; (3) public officials who are responsible to the citizens for administering public policy and for programs of economic and social progress; and (4) groups such as development authorities, planning commissions, and private firms engaged in planning community development activities. In another example of the hetorogeneity of the research audience, that audience is identified [6, pp. 156-7] at national, state, and community levels in both public and private categories as: national public (Congress and executive branch); national private (national organizations and firms); state public (legislators and government officials); state private (state organizations and firms); community public (local government); and community private (local organizations and firms, individuals, and families).

What data or research results do these clients need? The taxpaying public needs answers to current problems. If jobs and incomes are to be generated in rural areas, then clients need to know what kinds of industry would be most suitable, the fiscal impact of industrialization on the community, and whether to opt for local development or depend on commuting to a "growth center". Prescriptive analyses of the ties between provision of services and interaction with goods-producing sectors, income and employment effects of various industry sectors, income and employment effects of alternative tax policies, etc., will also provide urgently needed information. Answers to two important questions are essential for planning needed community services in rural areas: (1) What is the expected number and spatial distribution of jobs and people in rural areas during future time periods? (2) What is the expected form and quality of community services that will be desired over a planning period? [15, p. 2]. Input to determine "adequate" services will require development of conceptual frameworks for local decision makers to use in deciding what expenditure of limited funds represents the best investment for their community. Although planning in rural areas must deal with the same variables used in SMSA's, the problem is complicated because of sparse population and a multitude of local government bodies. [15, p.3]. Since some combination of counties may be required to muster a population large enough to support certain desired services, research to facilitate coordination and organization for efficiency is required.

Research to establish the needs for and means of providing better education, proper vocational training, adequacy of nutrition and health care, and at least moderate social and cultural activities is obviously called for.

The distressing fact about most discussions of rural development research needs is that the prescription usually is to: (1) put together a core of researchers to work on current problems using research data that are already available, (2) put together interdisciplinary groups or teams to work on intermediate and long run problems, and (3) continue with fundamental disciplineoriented research. In other words, the solution appears to be to get organized for rural development research on the basis of length of run. This ignores the essential question: "What are the problems?"

We have lost some excellent opportunities in the past by our failure to fully utilize research results. Continued dependence on highly general research--without serious attempts to provide specific results--will not satisfy the needs of people in rural areas. Information simply will not be able to filter down to the decision making levels where direction is urgently needed.

One choice for research is to work to increase economic opportunity in rural areas--depending on people to locate in those viable rural areas offering economic opportunity and desired community facilities and services. The best alternative for some residents of rural areas with little potential may be to move. The most recent investigation of rural development research needs in the Southern region included the following conclusions with respect to research needs for various rural development objectives [16, pp. 4-7]:

> Community services -- The single most productive activity would be the pulling together and synthesizing of results of research dealing with increased efficiency in the provision of particular services. Much has been done that needs to be brought together in a consistent fashion and made more usable to the community decision maker, the planner, extension personnel, etc.

Human resources -- It would be helpful to know what kinds of skills will be demanded, manpower requirements by industry, and improvements in employment service networks that would be helpful in matching jobs and workers. As in the community services category, a number of studies have been completed which need to be brought together, summarized, and related.

Income and employment -- If the rural development effort is to be effective, it must be based on strengthened economic activity in rural areas. Further information is needed regarding what local communities should do to attract and retain industry in order to gain the greatest economic benefits to the community. Especially needed is

research to explain the effects of rural industrialization on income and employment, on the distribution of costs, and on the increased levels of services required to support new jobs. Studies of the income and employment effects of taxation appear to be especially timely. State legislatures and local governments are under increasing pressure to find news of alternative revenue sources, and they need to be informed of the possible effects of tax policy on economic activity.

Study of rural community resources to determine the alternatives open for economic development and for public policy recommendations at all levels [13, p. 231] must assume much greater importance, and rural development researchers must be more clearly attuned to needs if the rural development effort is to produce the desired results.

Researchers sould direct their attention to developing information which will speed up economic growth in rural areas, providing the jobs and income which are necessary to support people in rural areas. Adequate economic activity will allow rural people to develop better community facilities and services. This provides an objective approach to that otherwise elusive goal of "improving the quality of life in rural areas."

REVIEW OF CURRENT RESEARCH IN THE SOUTHERN REGION The Task Force members agreed that a meaningful framework for review of rural development research was provided by the report of the Southern Regional Rural Development Research Council (SRRDRC). The SRRDRC report inventoried rural development research in the experiment stations by: (1) major objective, (2) problem area, and (3) discipline. The four major objectives of the rural development effort used in that report were:

- rural areas,
- in rural areas, and
- rural areas.

From nine to 13 "problem areas" were identified for each of the first three objectives, and the SRRDRC report classified current research by discipline according to this objective-problem area matrix. No attempt was made to account directly for interaction between objectives. Also, that report considered that environmental quality was related to the other objectives, but was not a topic for direct rural development research. The major objectives and problems areas are listed in Table 1.

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(1) to improve the level of community services provided in

(2) to improve the quality of human resources in rural areas, (3) to provide increased opportunity for income and employment

(4) to maintain and enhance the quality of the environment in

Research.<u>1</u>/ Development Rural ч Classification for Areas Problem and Objectives Major ι. Table

Community	Human	Income &
Services	Resources	Employment
1.01 Health	2.01 Human development	3.01 Holding & attracting industry
1.02 Education & training	2.02 Welfare	3.02 Plant location
1.03 Water systems	2.03 Health & nutrition	3.03 Income & employment effects of
1.04 Waste disposal	2.04 Demography	rural industrialization
1.05 Recreation	2.05 Educational program	3.04 Income & employment effects of
1.06 Law enforcement	effectiveness	natural resource investments
1.07 Fire protection	2.06 Household decisions	3.05 Alternative uses of natural
1.08 Transportation &	& management	resources
communication	2.07 Community decision	3.06 Rural recreation enterprises
1.09 General community	2.08 Level of living &	3.07 Technology for small farms
services	quality of life	3.08 Enterprises for small & part-tir
1.10 Planning	2.09 Public policy	farms
1.11 Housing equipment		3.09 Economic interactions in rural
& furnishing		areas
1.12 Legal institutions		3.10 Income & employment effects
& legal services		of taxation & regulation
1.13 Financial services		

-time

Was areas problem чų as no list shown not is $\frac{1}{2}/\, {\rm The}$ fourth objective, Environmental Quality, defined for research classification.

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The Task Force proceeded to complete the classification of current rural development research in the South by adding research conducted by the USDA and the 1890 institutions. Appendix Tables 1, 2, & 3 present: (1) the SRRDRC classification of 1972-73 rural development research conducted at the experiment stations, (2) a summary of USDA rural development research projects in the South, 1972-73, and (3) an inventory of rural development research at 1890 institutions, 1972-73.

Table 2 summarizes the rural development research effort in the South in 1972-73 by these three types of performing organizations. Table 3 summarizes the rural development research effort by discipline. Table 4 shows the percentage distribution of the rural development research effort in the South.

These tables show the type of emphasis currently placed on rural development research in the Southern region. In fiscal 1973, 120 SMY's were allocated to rural development research by the combined efforts of experiment stations, 1890 institutions, and the Economic Research Service of USDA. Research effort by performing organization was distributed as follows: experiment station - 59.5 percent; 1890 institutions - 27.1 percent; and USDA - 13.4 percent. Classification by discipline shows that 54.55 SMY's were from agricultural economics, 36.44 SMY's were from rural sociology; 16.76 SMY's were from home econonomics; and 12.25 SMY's were from other disciplines.

The distribution of research effort among the four objectives defined was community services - 22.2 percent; human resources - 50.1 percent income and employment - 26.4 percent; and environmental quality - 1.3 percent.

A topic that came up for discussion several times during the research review was the number of projects for which only fractional SMY's were indicated. We are inclined to believe that the professionals in rural development research are so few that they give extra effort just to touch base with many research topics. Whether this situation is preferable to one where fewer projects receive greater shares of research time is arguable. In many cases, projects with a low commitment of time tend not to be very productive. Further, rural development projects may require larger blocks of time because of the interrelatedness of social and economic problems, especially in rural areas.

On the other hand, some members of the task force felt that administrative reaction to our recommendations for reallocating research resources might jeopardize much of the "extra" effort being expended by rural development researchers. In view of these differing opinions, we recommend that an effort be made to shift the research effort so that each research project has a "meaningful" commitment (certainly more than .1 or .2 SMY's), but that the transition be gradual and that the researcher be afforded the maximum amount of flexibility in redefining his research area. Table 2. Rural Development Research Classified by Major Objective, Problem Area, and Performing Organization, Southern Region, FY 1973.

		anization		
Objective/	Experiment	1890		
P <u>roblem Area 1</u> /	Stations	Institution		Total
lule7		S	MY 's	
Community Services				
1.01	1.70	0	1.0	2.70
1.02	.70	0	0	.70
1.03	1.30	0	0	1.30
1.04	.85	0	0	.85
1.05	.75	2.3	0	3.00
1.06	0	0	0	0
1.07	0	Ő	Ő	0
1.08	Ő	.2	0	.2
1.09	5.80	0	1.7	7.50
1.10	2.25	0	.3	2.55
1.10	4.80	1.0	1.0	6.80
1.12	.10	0	0.1	.10
1.13	.90	0	0	
Subtotal	19.10	3.5	4.0	.90
Subcolar	19.10	3.5	4.0	26.60
Human Resources				
2.10	9.47	2.4	3.7	15.57
2.02	1.30	1.1	0	2,40
2.03	1.21	14.6	0	15.81
2.04	3.38	1.3	0	4.68
2.05	4.35	1.5	0	5.85
2.06	2.46	.6	0	3.06
2.07	.25	.2	.6	1.05
2.08	8.54	1.3	.8	10,64
2.09	. 5	0	.6	1.10
Subtotal	31.46	23.0	5.7	60.16
Income & Employment	1			
3.01	.70	0	0	.70
3.00	0	Ő	õ	.,0
3.03	.75	Ő	1.3	2.05
3.04	2.60	õ	0	2.60
3.05	1.62	0	0	1.62
3.06	.80	0	0	.80
3.07	4.10	.8	0	
3.08_	1.36	2.3	0	4.90
3.00	1.00	2.0	U	3.66

(Continued)

	Org				
Objective/ Problem Area <u>1</u> /	Experiment 1890		USDA	Total	
		SMY '	s		
3.09 3.10 Subtotal	8.26 .65 20.84	1.4 0 4.5	5.1 0 6.4	14.76 .65 31.74	
Environmental Quali	ty				
4.00	0	1.5	0	1.5	×
Total	71.40	32.5	16.1	120.00	

Table 2. Rural Development Research Classified by Major Objective, Problem Area, and Performing Organization, Southern Region, FY 1973, continued.

 $\frac{1}{\text{The problem areas are defined in Table 1.}}$

Table 3.	Rural D	evelop	nent	Research
	Problem	Area.	and	Discipl:

-

Objective/ Problem Area <u>1</u> /	Agricultura Economics
Community Services	
1.01	2.70
1.02	.70
1.03	1.10
1.04	.85
1.05	.70
1.06	0
1.07	0
1.08	0
1.09	5.90
1.10	2.55
1.11	2.10
1.12	.10
1.13	.90
Subtotal	17.60
Human Resources	
2.01	5.50
2.02	1.10
2.03	0
2.04	.20
2.05	.20
2.06	.30
2.07	.60
2.08	.33
2.09	1.10
Subtotal	9.33
Income & Employmen	t
3.01	.70
3.02	0
3.03	2.05
3.04	2.60
3.05	1.30
3.06	.80
3.07	3.30
3.08	1.86

24

Discipline			
Rural	Home	1.	1 2 2 2 -
Sociology	Economics	Other	Total
SMY's	_~~~~~~~~		
0	0	0	2.70
0	0	0	.70
0	0	.20	1.30
0	0	0	.85
2.30	0	0	3.00
0	0	0	0
0	0	0	0
.20	0	0	.20
1.60	0	0	7.50
0	0	0	2.55
0	2.10	2.60	6.80
0	0	0	.10
0	0	0	.90
4.10	2.10	2.80	26.60
8.67	1.40	0	15.57
1.30	0	0	2.40
3.71	8.90	3.20	15.80
4.48	0	0	4.68
2.50	1.40	1.75	5.85
0	1.86	.90	3.06
.45	0	Ő	1.05
9.21	1.10	Õ	10.64
0	0	ŏ	1.10
30.32	14.66	5.85	60.16
00101	1,000	5.05	00010
0	0	0	.70
0	0	0	0
Ō	Ő	Ő	2.05
Ő	Ő	ŏ	0
.32	0	Ő	1.62
0	ŏ	0	.80
.80	Ő	.80	4.90
.50	ŏ	1.30	3.66
.50	U	1.50	5.00

rch Classified by Major Objective, pline, Southern Region, FY 1973.

	Discipline						
Objective/	Agricultural		Rural Home				
Problem Area 1/	Economics		Sociology		Other	Total	
	*******		Sì	YY's			
3.09	14.36		.40	0	0	14.76	
3.10	.65		.40	0	0	14.76	
Subtotal	27.62		2.02	0	2.10	.05	
			2102	Ŭ	2.10	51.74	
Environmental Quality	0		0	0	1.5	1.5	
Total	54.55		36.44	16.76	12.25	120.00	
	54:55		50.44	10.70	12.25	120.00	
1/The such las			5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				
$\frac{1}{The}$ problem	areas are	def:	ined in Tab	le 1.			

Table 3. Rural Development Research Classified by Major Objective, Problem Area, and Discipline, Southern Region, FY 1973, continued.

Distribution of Rural Development Research by Major Objective, Discipline, and Performing Organization, Southern Region, FY 1973. Discipline Rural Table 4.

100

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		DISCIPLINE	and the second se	And the second s	
Major Objective and	Agricultural	Rural	Ноте		E
Performing Organization	Economics	Sociology	Economics	Uther	Total
		(Percent)			
1.00 Community Services	(14.7)	(3.4)	(1.7)	(2.3)	(22.2)
Experiment Station 1890 Institutions	11.3 0	1.3 2.1	0.9 0.8	2.3	15.9
USDA	3.3	0	0	0	e. e
2.00 Human Resources	(7.8)	(25.3)	(12.2)	(6.4)	(20.1)
Experiment Station 1890 Testitutions	4.7	15.2 8.2	5.4	1.0	26.2
USDA	2.8	1.9	0	0	4.8
3.00 Income & Employment	(23.0)	(1.7)	(0)	(1.8)	(26.4)
Experiment Station	15.9	0.7	00	0.8	17.4
USDA INSTITUTIONS	5.3	0.1	00	0.1	0.0 0.0
4.00 Environmental Quality	(0)	(0)	(0)	(1.3)	(1.3)
					(100.0)
Total	45.5	30.4	14.0	10.2	100.1

26

27

IDENTIFICATION OF PRIORITY AREAS

The process of assigning priorities to problem areas for rural development is a subjective one at best. The effort of the Task Force in accomplishing this job was greatly abetted by a survey taken by the Southern Rural Development Center (SRDC). A description of the survey, categories of respondents, and results follows.

There is a state-level Rural Development Committee in each state. Membership includes representatives from the Forest Service, Soil Conservation Service, Farmers Home Administration, Rural Electification Administration, Agricultural Stabilization and Conservation Service, and the State Cooperative Extension Service. In many states, membership has been expanded to include representatives of various State Departments and Agencies, including the Office of the Governor. The State Committee establishes liaison with the executive officers of the state government and other appropriate organizations. The committees are designed to work closely with state and local people in support of comprehensive planning and development. In view of this assigned role, the members of this committee are in a position to observe, hear, and be concerned with problems which need research answers. This survey was designed to obtain responses from them in regard to the areas which need priority research attention.

Members of the State Rural Development Committees were asked to respond with questions of both immediate and long-range concern in the area of Rural Development. Ranked in priority of immediate concern as judged from the number of questions submitted are the following areas:

Area

Community Services & Facilities Economic Development..... Environmental Improvement..... People Building..... General....

Within the Community Service (19) were raised in the area of questions and General Community questions about water and waste questions were concerned with wa The next largest number of quest education and training--both education and education of professionals a Housing (14 questions) was the r by planning (8 questions) and he communication (8 questions).

28

Number of Questions

3 111
28
Total 251
ces and Facilities area most questions
Waste Disposal. Water systems had 9
Services 11, which included joint
e facilities. Overall, 39 of 111
ater and/or waste disposal systems.
tions (17) in the CS&F area concerned
ucation for the general public
and officials about rural development.
next largest category, followed
ealth and transportation and

In the Economic Development category nearly one-third of the 58 questions dealt with holding and attracting industry. Income and Employment Effects of Rural Industry accounted for 14 questions while 9 were concerned with Technology for Small Farms. There were 7 questions about Economic Interactions in Rural Areas.

Land Use and Zoning (19 questions) was the major area of interest in the Environmental Improvement area, followed by questions concerned with Conservation (11) and Forests and Wildlife (10).

The fourth-ranked area was People Building, with 28 questions overall. Community Decision Making (9 questions) and Human Development (9 questions) were the top two categories. Public Policy, with 6 questions, was the third category of concern.

Twelve questions were placed in a General or Unclassified category. These dealt with rural development programs, citizen participation, research synthesis, and services desired by rural people.

Ranked in priority of long-term concern as judged from the number of questions submitted were the following areas:

Area Nu	mber of	Questions
Community Service and Facilities		
Environmental Improvement		46
Economic Development		37
People Building	•••••	30
General	•••••	2
Total	1	81

Within the Community Services and Facilities area, planning (15 questions), education and training (12 questions), general community services (7 questions) ranked as priority areas of concern. Again, considering the classification scheme used (i.e., when both water and sewer were mentioned in one question, it was classified as general community service), the questions show a major emphasis on water and/or sewer systems.

Land Use and Zoning with 21 questions was the major concern in the Environmental Improvement area. Economic Interactions in Rural Areas, with 14 questions, was the major interest in the Economic Development category.

Under the People Building category, educational program effectiveness and demography, with 6 questions each, were the two major areas of concern.

Certain limitations of this survey should be noted. First, the respondents were all members of a predominately agriculturallyoriented State Rural Development Committee. Second, the process of classification was difficult and somewhat arbitrary. The matrix developed by the Southern Regional Rural Development Research Council was used for consistency, but it was still necessary to force some questions into categories where they didn't quite fit. Third, responses reflect the personal opinions of the Rural Development committee members. Fourth, the response represented only slightly over 30 percent of the State Rural Development Committee members.

Task Force from rural development specialists of power companies presented a slightly different picture. Of 31 responses obtained, 61 percent dealt with the need to improve community services, 26 percent were concerned with human resource development, 10 percent viewed mental improvement as a pressing need.

Again, these views are not focused on research needs specifically, but do serve to give indications of problem areas. These views, as well as the current distribution of research effort, are summarized in Table 5.

Responses solicited by the industry representative on the income and employment needs high, and three percent mentioned environ-

			33
	_	~	
1.6	23.0	100	
21	3		
			the second se
ŝ	2	0	and the set of the set
25.3	17.7	100	
	• •		
			and the second
			and the second second second second second second
			and the second discovery descent
9.7	3.2	100	
01			and the second se
			and and a share the limit of the second s
			and the second
4	en	0	
26.4	1.3	100	
			and the second
ц			
len			
E.C.			
pla			~
ם	int		
Income & Employment	Environment	al	
Вe	roi	Total	
100	Ę	н	
Ц	묩		

Dev. Comm. (1ong-tern

Rural

State I (immediate)

Private individuals ----(Percent)-

Present SMY distribution

with questionnaire responses

effort

present research

of

Comparison

Table 5.

87

18.3

12.8

25.8

37.1

44.2

61.3

22.2

Services

Community

Objective

Human Resources

50.1

RECOMMENDED ALLOCATION OF SMY's

After determining the current SMY allocation, the Task Force assignment was to: (1) determine a desired reallocation of present research resources, (2) determine an allocation assuming a 10 percent increase in research resources, and (3) recommend a level and distribution of research resources commensurate with rural development needs.

Based on the judgment of the Task Force members--and reflecting such considerations as questionnaire responses, interaction with professional research and extension workers, and personal involvement in rural development efforts -- the following recommendations are made:

> Reallocation of present resources-The Task Force felt that relatively too many research resources were committed to the Human Resources category (50.1 percent). The reommended reallocation by major areas is to increase the allocation of SMY's to Community Services from 22 to 25 percent, decrease the SMY's allocated to Human Resources from 50 to 35 percent, increase the SMY's for Income and Employment from 26 to 35 percent, and increase SMY's for Environmental Improvement research from 1.5 to 5 percent. This allocation is not meant to diminish the importance of the Human Resources category, but to give recognition to the conviction that research effort will have a much greater marginal payoff in either the Community Services or Income and Employment areas.

for this alternative builds on the recommendation for reallocating present resources. A 10 percent increase would mean 12 additional SMY's. These should be allocated equally between the Community Services and the Income and Employment categories as follows: 1.01 -1.04 -1.09 -1.10 -

Recommended resource allocation to rural development research --The Task Force approaches this subject cautiously--but not reluctantly. Our thesis throughout this review has been the need for rural development research. The benefits to be derived from research are, however, contingent on a number of factors, including: (1) training, professional capability, and personal commitment of researchers; (2) recognition by administrators of the need to support rural development research; (3) ability of research and extension personnel to work together effectively to insure that research results are understood and transmitted with promptness and clarity to the desired audience; and

Allocation of a 10 percent increase -- The recommendation

1.01 - 2	1 3.01 - 2
1.04 -	1 3.02 - 1
1.09 - 1	3.06 - 1
1,10 -	2 3.10 - 2
1.12 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

(4) that communication of information among researchers be adequate to prevent duplicative efforts and to enable the useful amalgamation of complementary research efforts and results. With this preamble, we recommend that the research effort presently expended by experiment stations, 1890 institutions, and USDA be increased by 105 SMY's (88 percent). Although we feel that such an increase would not be required under ideal circumstances concerning the factors noted above, the additional 105 SMY's appear to be a realistic hedge. We emphasize strongly that a doubling of effort as it is now being expended would be wasteful and ineffective.

A detailed comparison of present and recommended SMY allocations by problem area is presented in Table 6.

Long run (62) 3 10 10 12 12 1 Recommended Allocation 10% increase (36) 5 1 1 1 No increase ----(SMY's)-1114224 (30) **Present** allocation (26.60) 2.70 .70 1.30 .85 3.00 0 . . . RPA 908 908 908 908 908 908 908 lucation & Training isposal ry Services alth syste Major Objective and area ater aste munity problem

Research by Major Objective

Development

Rural

fo

Recommended Allocation Area, Southern Region.

Present and l and Problem /

Table 6.

36

(Continued)	(Cont				
9	4	4	4.68	806	2.04 Demography
10	5	5	15.81	806	2.03 Health & nutrition
10	4	4	2.40	803	2.02 Welfare
12	9	9	15.57	806	2.01 Human development
(27)	(42)	(42)	(60.16)		Human Resources
ц			0	908	governments
					1.14 Operation of local
'n	2	2	06.	908	1.13 Financial services
7	m	2	.10	908	services
					1.12 Legal Inst. & legal
2	2	2	6.80	801	& furnishings
					1.11 Housing equipment
10	9	4	2.55	908	1.10 Planning
Ś	4	ŝ	7.50	908	services
					1.09 General community
ę	2	2	.20	908	commication
					L.UO ITANSPOTUATION &

nd Recommended Allocation of Rural Development Research by Major Objective em Area, Southern Region, continued.	Recommended Allocation
of Rural Develo	
Present and Recommended Allocation of Rural and Problem Area, Southern Region, continued	ective
Table 6.	Maior obi

THE UL			Recom	Kecommended AL Location	uo
and		Present	No	10%	Long
problem area	RPA	allocation	increase	increase	run
			(SMY's)		
2.05 Educational program					
effectiveness	804	5.85	S	ŝ	15
2.06 Household decisions					
& management	802	3.06	9	9	ო
2.07 Community decision					
making	908	1.05	4	4	10
2.08 Level of living & quality					
of life 803,4,6,7	& 908	10.64	ę	ę	00
2.09 Public policy	804	1.10	Ŋ	Ś	2
2.10 Sociological aspects of					
small farms		0			1
Income & Employment		(31.74)	(42)	(48)	(20)
3.01 Holding & attracting					
industry	907	.70	7	6	10
3.02 Plant location	907	0	e	4	15
rural indust.	907	2.05	ę	e	12
3.04 Income & employment effects					
UL HALUFAL FESOUFCE	200	0.00	c	c	L
	106 -	5.00	n	'n	n
3.05 Alternative uses of natural				-	
resources	907	1.62	2	2	4
3.06 Rural recreation					
enterprises	907	.80	2	en	2
3.07 Technology for small					
farms	807	4.90	4	4	4

Present and Recommended Allocation of Rural Development Research by Major Objective and Problem Area, Southern Region, continued. Table 6.

Se.,

Major objective and		Present	Reco	Recommended Allocation 10%	un Long	
problem area	RPA	allocation	increase	increase	uni	
			(SWX's)			
Enterprises for small and part-time farms	807	3.66	4	4	4	
Economic inter rural areas	907	14.76	ø	α	12	
3.10 Income & emp. ellects of tax. & reg.	907	.65	9	ω	Ø	
Environmental Quality 4.01 Conservation 4.02 Recreation 4.03 Forest & wildlife		(1.50)	(9)	(9)	(10) 0 1	
4.04 Land use & zoning 4.05 Beautification					n n n	
Total		120	120	132	225	
					-	
а.,						

38

Eroblem AreaAgriculturalRuralBomeAgriculturalTretal1.01 Health8006(2)SociologyEconomicsArNA7(7)41.01 Health8066(2)ArNA7(77)ArNA7(77)41.02 Education andMrNA7(77)ArNA7(77)1.0321.03 Mater SystemM1303(1.0)M1303(1.0)321.03 Kater SystemM303(1.0)M1303(1.0)331.04 Waste DisposalG112(125)A331.05 RecreationM648(1.0)M303(1.0)731.06 Law EnforcementA1052(1.0)A1062(1.0)331.07 Fire ProtectionM648(1.0)M648(1.0)1.031.031.08 General CommunityA1052(1.0)M1304(1.0)1.01.09 General CommunityFi630(4)Traf04(5.5)1.31.09 General CommunityM1335(1.3)M1304(1.5)1.31.09 General CommunityM1335(1.3)M1336(1.3)1.31.09 General CommunityM1335(1.3)M1335(1.3)1.31.09 General CommunityM1335(1.3)M1335(1.3)1.31.01 General CommunityM1335(1.3)M1335(1.3)1.31.03 Matersion andM1335(1.3)M1335(1.3)1.31.09 General CommunityM1335(1.3)M1335(1.3)1.31.00 General CommunityM1335(1.3)M1335(1.3)1.31.01 General CommunityM1335(1.3)M1335(1.3)1.31.03 MathieM1335(1.3)M1335(1.3)M1335(1.3) <trr< th=""><th>Lem Area Agricultural Reveal Rural Rome Recondics Recinitural rotal rotal rotal Health \$0065(1) \$cononics Scotology Econonics Projects 4 Health \$0065(1) \$r747(17) \$1247(17) 4 Training \$1777(17) \$1747(17) 1 4 Training \$1777(17) \$1749(17) 2 Training \$1777(16) \$1327(10) \$1327(10) 3 Waste Disposal \$1327(10) \$1327(10) \$1327(10) 3 Waste Disposal \$1327(10) \$1464(13) 3 3 Recreation \$0052(1) \$1348(13) 3 3 Recreation \$0022(1) \$13148(13) 13 13 Law Enforcement Transportation \$ \$1653(15) \$13348(15) 3 Services \$1653(12) \$13348(15) 3 3 Maradiation \$0022(1) \$13348(15) 13 13 Interportation \$1001(4) \$13348(15) 13 13 Interportation \$1630(12) \$13348(15) 13 13 Maradiation \$1001(4) \$13348(15) 13 13 Maradiation \$11612(10)<!--</th--><th>Bar Area Artfold Lutral Rural Bone Artfold Lutral Total Haith W008(1) Sociology Economics Sociology Economics Projects Haith W008(1) Ar737(2) Sociology Economics Entimetring Projects Restriction M1305(1) M1305(1) M1305(1) Sociology Sociology 2 Water System M303(1) M1305(1) M1305(1) M1305(1) 3</th><th></th><th></th><th>Disc</th><th>Discipline</th><th></th><th></th><th></th></th></trr<>	Lem Area Agricultural Reveal Rural Rome Recondics Recinitural rotal rotal rotal Health \$0065(1) \$cononics Scotology Econonics Projects 4 Health \$0065(1) \$r747(17) \$1247(17) 4 Training \$1777(17) \$1747(17) 1 4 Training \$1777(17) \$1749(17) 2 Training \$1777(16) \$1327(10) \$1327(10) 3 Waste Disposal \$1327(10) \$1327(10) \$1327(10) 3 Waste Disposal \$1327(10) \$1464(13) 3 3 Recreation \$0052(1) \$1348(13) 3 3 Recreation \$0022(1) \$13148(13) 13 13 Law Enforcement Transportation \$ \$1653(15) \$13348(15) 3 Services \$1653(12) \$13348(15) 3 3 Maradiation \$0022(1) \$13348(15) 13 13 Interportation \$1001(4) \$13348(15) 13 13 Interportation \$1630(12) \$13348(15) 13 13 Maradiation \$1001(4) \$13348(15) 13 13 Maradiation \$11612(10) </th <th>Bar Area Artfold Lutral Rural Bone Artfold Lutral Total Haith W008(1) Sociology Economics Sociology Economics Projects Haith W008(1) Ar737(2) Sociology Economics Entimetring Projects Restriction M1305(1) M1305(1) M1305(1) Sociology Sociology 2 Water System M303(1) M1305(1) M1305(1) M1305(1) 3</th> <th></th> <th></th> <th>Disc</th> <th>Discipline</th> <th></th> <th></th> <th></th>	Bar Area Artfold Lutral Rural Bone Artfold Lutral Total Haith W008(1) Sociology Economics Sociology Economics Projects Haith W008(1) Ar737(2) Sociology Economics Entimetring Projects Restriction M1305(1) M1305(1) M1305(1) Sociology Sociology 2 Water System M303(1) M1305(1) M1305(1) M1305(1) 3			Disc	Discipline			
Health M4008(.1) Su46(.2) Ar747(.7) Ar747(.7) Mater System M4008(.1) Su494(.7) Mater System M4008(.1) K77(.6) M4303(.1) Maste Disposal M4008(.1) K77(.6) M4303(.1) M4303(.1) M4303(.1) M4303(.1) M4303(.1) M4304(.1) M4304(.1) M4304(.1) M4304(.5) M4304(.5) M4304(.5) M4304(.5) M4304(.5) M4304(.5) M4304(.5) M4304(.5) M4304(.5) M4304(.5) M4304(.5) M4008(.1) M4304(.5) M4304(.5) M4304(.5) M4304(.5) Image: Mater and	Health W008(1) Source of and KT74(6) Training KT7(6) ArT47(7) Art74(7) Art74(7) Art74(7) Art74(6) Art74(6) Art74(6) Art74(6) Art74(6) Mater System M13326(1) Water System M230(1) Water System M230(1) Water System M230(1) Water System M230(1) Water System M230(1) M2305(1) Fite Protection Transportation & 00 Commutation & 00 Commutation & 00 Commutation & 00 Commutation & 00 Commutation & 00 Art74(1,5) M2304(1,5) M2304(1,5) M2304(1,5) M2302(1,2) M2304(1,5) M2304(1,5) M2302(1,2) M2304(1,5) M2302(1,2) M2302(1,	11 Halth M008(1) 4 22 Education and training M134(2) M134(2) 23 Training M134(2) M134(2) 24 Training M134(2) M134(2) 25 Education and training M134(2) M134(2) 26 Training M134(2) M134(2) 27 Education M134(2) M134(2) 28 Ecreation M134(2) M134(2) 292 (1) M134(2) M134(2) 27 Exportement M163(2) M134(2) 28 Ecreation M134(2) M134(2) 29 Ecreation M134(2) M134(2) 20 Ecreation M134(2) M134(2) 20 Ecreation M134(2) M134(2) 2141200 M134(2) M134(2) <td< th=""><th></th><th>Agricultural Economics</th><th></th><th>Home conomics</th><th>Agricultural Engineering</th><th>Total Project:</th><th>Total s SMY's</th></td<>		Agricultural Economics		Home conomics	Agricultural Engineering	Total Project:	Total s SMY's
$ \begin{array}{c} \mbox{Hardin} & \mbox{Ardin} & \mbox{Ardin} & \mbox{Ardin} & \mbox{K1494(.7)} & \mbox{K1494(.7)} & \mbox{K1494(.7)} & \mbox{K1494(.7)} & \mbox{K13326(.1)} & \mbox{K13326(.1)} & \mbox{K13326(.1)} & \mbox{K13326(.1)} & \mbox{K13326(.1)} & \mbox{K13326(.1)} & \mbox{K1332(.2)} & K1332(.2$	Education and Training K747(7) K77(5) 2 Training K77(5) 3 Training N13356(1) 01444(7) 3 Water System N13356(1) N13356(1) 3 Water System N3356(1) N13356(1) 3 Waste Disposal G121(122) 3 3 Waste Disposal G121(122) 3 3 Maste Disposal G132(15) 3 3 Law Enforcement F1623(15) F3 3 Community F1623(15) M304(13) 13 5 Services F1630(4) F3148(53) 13 13 5 M3357(1) M4304(15) Ar674(15) Ar674(15) 0 0 M3357(1) M3357(1) M3357(1) Ar674(15) 0 0 M3357(1) M3357(1) M3357	2 Education and (x10) 2 Education and (x10) 2 Training (x10) 3 March (x10) 4	1.01 Health	M4008(.1) S046(.2)				4	1.7
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Water System N13326(.1) M4303(.1) Waste Disposal N13326(.1) M4303(.1) M4303(.1) M4303(.1) M4801 K123(.2) M4303(.1) M4801 Recreation A363(.3) A363(.3) M48(.1) M48(.1) M4801 K123(.2) M4801 Recreation A048(.1) M052(.1) F1623(.5) A048(.1) M4801 Law Enforcement Fire Protection Transportation & Communicy Services F1623(.5) F1623(.5) K123(.5) F1623(.5) Law Enforcement Fire Protection General Community Services F1623(.5) F1633(.5) F1623(.5) F1623(.5) Numurity Services F1633(.5) F1633(.5) F1633(.5) F1633(.5) Numurity Services F1633(.5) F1633(.5) Numurity M13357(.3) M4304(.53) F1633(.5) N13357(.3) V616152(.2) M4304(.5)	Mater System M13326(.1) 932(1.0) Vaste Disposal M13326(.1) 61121(.25) A363(.3) A363(.3) A363(.3) A363(.3) A052(.1) A1630(.4) A1630(.2) Ar674(.5) Ar674(.5) Ar674(.5) Ar674(.5) X1233(.2) A1337(.2) Ar674(.5) Ar674(.5) X1233(.2) A1337(.2) Ar674(.5) X1233(.2) Ar674(.5) Ar674(.5) X1233(.2) Ar674(.5) X1233(.2) Ar674(<pre>3 Water System M1326(.1) 3 Water System M326(.1) 4 Waste Disposal 1023(.2) 392(1.0) 4 Waste Disposal 1123(.2) 4 Maste Disposal 1123(.2) 5 Services 1123(.2) 5 Services 11612(.2) 5 Fire Procection 4 5 Services 11612(.2) 5 Service</pre>	.02 Education Training	K77(.6)				2	7.
Mater Dystem Francy (1,0) Mater Dystem Francy (1,1) Maste Disposal G121(25) Maste Disposal Maste Dispose Master Dispose	Matter System Milling Milling Milling System Milling System Milling System System <thsystem< th=""> <thsystem< th=""> <thsyste< td=""><td><pre>constant system mapping m</pre></td><td>Lotor</td><td>N13326(.1) W22027 1)</td><td></td><td></td><td></td><td>c</td><td>Ţ</td></thsyste<></thsystem<></thsystem<>	<pre>constant system mapping m</pre>	Lotor	N13326(.1) W22027 1)				c	Ţ
Waste Disposal G1121(.25) A365(.3) A365(.3) A365(.3) (61514(.3) A048(.1) A048(.1) A052(.1) Law Enforcement Fice Protection Transportation & Communication & Communication A004(.37) L1612(0) E1612(0) E1612(0) F1630(.4) M4304(.37) L1612(0) F1630(.2) M4304(.37) Ar674(.5) Ar674(.5) Ar674(.5)	Waste Disposal (1121(.25) 3 Maste Disposal (1121(.25) 3 Add8(.1) Recreation (1121(.25) 4 Recreation (1121(.25) 4 Law Enforcement (1223(.5) (1223(.5) 1 File33(.5) (1223(.5) 1 Transportation & 0 Community (1212(0)	9. Waste Maposal (1121(.25) 10. Law Enforcement 17622(.1) 16. Law Enforcement 16. Law Enforcement 17. Law Enforcement 16. Law Enf	WALET	S932(1.0)			K123(.2)	'n	L.3
Recreation Volb154(.3) A048(.1) A052(.1) F1623(.5) Law Enforcement Fire Protection Transportation & Communicy General Community Services Y1623(.5) A052(.1) F1623(.5) F1623(.5) A050(.4) Tx3148(.53) F1630(.4) F1630(.4) F1630(.2) Ar674(.5) Tx3148(.53) Ar674(.5) M13357(.3) V616152(.2) M1304(.37) Ar674(.5)	Recreation 0448(.1) A048(.1) A052(.5) File23(.5) 3 3 Law Enforcement File Protection Famsportation & Communication General Community Services 1623(.5) A1530(.4) 1x33148(.53) 0 Transportation & Communication General Community Services 1530(.4) 1x33148(.53) 13 5 N4304(.37) 11612(0) M4304(.37) 11612(0) 13 5 N13357(.3) Ar674(.5) Ar674(.5) Ar674(.5) Ar674(.5) (continued) N13357(.3) N13357(.3) N13357(.2) 1616152(.2) (continued) (continued)	D5 Recreation M052(1) FileS1(5) 0 FileS1(5) 0 Fil	1.04 Waste Disposal	G1121(.25) A363(.3)				က	.85
Taw Enforcement F1623(.5) Fire Protection F1623(.5) Transportation & Communication Transportation & Communication Communication F1630(.4) Tx3148(.53) Services L1612(0) F1630(.2) Info: Tx3148(.53) M4304(.37) Info: Tx3148(.53) M4304(.5) Arr745(.7) Ar674(.5) Ar674(.5) N13357(.3) V616152(.2) Ar674(.5)	Law Enforcement #1623(.5) 0 Fire Protection F1623(.5) 0 Transportation & Communication 0 Communication 0 0 Services T1612(0) M4304(.37) 13 5 L1612(0) F1630(.2) M4304(.37) 13 5 N13357(.3) Ar674(.5) Ar674(.5) Ar674(.5) 0 V616152(.2) N13357(.2) Ar674(.5) (Continued)	<pre>6 Law Enforcement 7 Fire Frotection 8 Transportation & 9 General Community 11612(0) 11612(0) 11630(4,3) 11612(0) 11612(0) 11613(1,3) 8 Services and Community 8 Services (100) 11612(1,3) 11612(1,3) 11612(1,2) 11612(1,2) 11612(1,2) 11612(1,2) 11612(1,2) 11612(1,2) 11612(1,2) 11612(1,2) 11612(1,3) 11612(1,3) 11612(1,4) 11612(1</pre>		V616154(.3) A048(.1)				ſ	٠.
Law Enforcement Fire Protection Transportation & Communication General Community Services F1630(.4) Tx3148(.53) L1612(0) M4304(.37) L1617(0) F1630(.2) M4304(.37) L1617(0) F1630(.2) X85(.7) Ar674(.5) Ar674(.5) N13357(.3) V616152(.2)	Law Enforcement Fire Protection Transportation 6 Communication Gomminication General Community Services [1630(.4) Tx3148(.53) [13] 5 L1612(0) M4304(.37) L1612(0) M4304(.37) L1612(0) Tx030(.2) M4304(.5) Ar674(.5) Ar674(.5) Ar674(.5) (Continued)	0 [a Farby Francement 1) Fire Frotection 0 Transportations 10 Transportations 11612(0) H303(13) 11612(0) H303(13) 11612(0) H303(13) 11612(0) H303(13) 11612(0) H303(13) 11612(0) H303(13) 11612(0) H303(13) 11612(0) H303(13) 11612(0) H303(13) 11612(0) H3035(13) 11612(12) 11		F1623(.5)				(0 1 1	
Transportation & Communication General Community Services F1630(.4) Tx3148(.53) 1.1612(0) F1630(.37) 1.1617(0) F1630(.2) X85(.7) Ar745(.7) N13357(.3) V616152(.2)	Transportation & 0 Communication 0 General Community F1630(.4) Tx3148(.53) 13 5 Ii612(0) M4304(.37) M4304(.37) 11617(0) 11617(0) 11617(0) 11617(0) 8 11617(0) 8 13 5 Ar745(.7) Mr745(.7) Ar674(.5) Ar674(.5) Ar674(.5) (000000000000000000000000000000000000	B Traportation & 0 Communicy Fi530(4) Tx3148(.53) 1345 (2) L1612(0) M4304(.37) 15630(.2) L1612(0) M4304(.37) 15630(.2) L1612(0) M4304(.37) 15630(.2) L1612(0) M4305(.2) Ar674(.5) Ar674(.5) Ar674(.5) (2) Ar674(.5) Ar674(.5) Ar674(.5) (2) Ar674(.5) Ar678(1.0) Ar674(.5) Ar674(.5) Ar678(1.0) Ar674(.5) Ar678(1.0) Ar674(.5) Ar678(1.0) Ar674(.5) Ar678(1.0) Ar674(.5) Ar678(1.0) Ar678(1.0) Ar678(1.0) Ar674(.5) Ar678(1.0) Ar678(1	Law Enforcement Fire Protection					00	00
Operation communes F1630(.4) Tx3148(.53) Services F1630(.4) Tx3148(.53) L1612(0) M4304(.37) M4304(.37) L1617(0) F1630(.2) M4304(.5) K85(.7) Ar674(.5) Ar674(.5) N13357(.3) V616152(.2) V616152(.2)	.07 central commune F1630(.4) Tx3148(.53) 13 5 11612(0) M4304(.37) M4304(.37) 11612(0) M4304(.37) 11617(0) F1630(.2) M4304(.5) Ar7445(.7) Ar7445(.7) Ar7445(.7) N13357(.3) V616152(.2) V616152(.2) (Continued)	Table 1-A. Summary of Rural Development Research Projects and $1972-73$ SMY Allocations at Experiment Station (Continued) (Continued						0	0
$\begin{array}{llllllllllllllllllllllllllllllllllll$	L1612(0) $M4304(.37)$ L1617(0) $F1630(.2)$ K85(.7) $Ar674(.5)$ Ar745(.7) $Ar674(.5)$ N13357(.3) V616152(.2)	dix Table 1-A. Summary of Rural Development Research Projects and 1972-73 SNF Allocations dix Table 1-A. Summary of Rural Development Research Projects and 1972-73 SNF Allocations dix Table 1-A. Summary of Rural Development Research Projects and 1972-73 SNF Allocations dix Table 1-A. Summary of Rural Development Research Projects and 1972-73 SNF Allocations dix Table 1-A. Summary of Rural Development Research Projects and 1972-73 SNF Allocations dix Table 1-A. Summary of Rural Development Research Projects and 1972-73 SNF Allocations dix Table 1-A. Summary of Rural Development Research Projects and 1972-73 SNF Allocations dix Table 1-A. Summary of Rural Development Research Projects and 1972-73 SNF Allocations dix Table 1-A. Summary of Rural Development Research Projects and 1972-73 SNF Allocations dix Table 1-A. Summary of Rural Development Research Projects and 1972-73 SNF Allocations dix Table 1-A. Summary of Rural Development Research Projects and 1972-73 SNF Allocations dix Table 1-A. Summary of Rural Development Research Projects and Rural Development Rural Development Rural R	60.		Tx3148(.53)			13	5.80
K85(.7) Ar674(.5) Ar745(.7) N13357(.3) V616152(.2)	K85(.7) Ar674(.5) Ar745(.7) N13357(.3) V616152(.2)	K85(:7) Mr1337(5(:2) V616152(:2) V616152(:2) Ar674(.5) M13375(:2) V616152(:2) (Continued) M13375(:2) N13375(:2) N13375(:2) N13375(:2) V616152(:2) N13375(:2) N13375(:2) N13375(:2) V616152(:2) N13375(:2) V616152(:2) N13375(:2) V616152(:2) N13375(:2) V616152(:2) N13375(:2) Mix Table 1-4. Summary of Rural Development Research Projects and 1972-73 SMY Allocations at Experiment Stations in the South: Community Strvices (1.00) <u>a</u> /, continued. Matea D1561511ie Planntug S02(1.4) Planntug S02(1.5) Munsing Equip. & M1578(1.0) Munsing Equip. & M1578(1.0)		L1612(0) L1617(0)	M4304(.37) F1630(.2)				
N13357(.3) V616152(.2)	N13357 (.3) V616152 (.2)	W13357(.3) W13357(.3) V616132(.2) V616132(.2) (Continued Continued dix Table 1-A. Summary of Rural Development Research Projects and 1972-73 SMF Allocations Continued at Experiment Stations in the South: Community Services (1.00) <u>a</u> /, continued. Discipline m Area Agricultural Total fem Area Agricultural Total Pointing Sociology Economics S987(1.9) Okl492(.35) 2 Housing Equip. 6 Arf58(1.0) Y626116(1.1) Running S987(1.9) 2 2		K85(.7) Ar745(.7)	Ar674(.5)				
Continue	Continued)	Idix Table 1-A. Summary of Rural Development Research Projects and 1972-73 SMY Allocations at Experiment Stations in the South: Community Services (1.00) <u>a</u> /, continued. Idix Table 1-A. Summary of Rural Development Research Projects and 1972-73 SMY Allocations at Experiment Stations in the South: Community Services (1.00) <u>a</u> /, continued. Idia Area Discipline Imine National Received Sociology Economics Planning S987(1.9) Runshings Rquip. & Af678(1.0) Furnishings S872(.6) Furnishings S72(.6)		N13357(.3) V616152(.2)					
		dix Table 1-A. Summary of Rural Development Research Projects and 1972-73 SWT Allocations at Experiment Stations in the South: Community Services (1.00) <u>A</u> /, continued. <u>Agricultural Rural Discipline Agricultural Total To</u> <u>Economics Sociology Economics Engineering Projects SM</u> Planning 0k1492(.35) Planning 0k1492(.35) Housing Equip. & Ar678(1.0) K626116(1.1) S872(.6) 5						(Cont l	nued)
		dix Table 1-A. Summary of Rural Development Research Projects and 1972-73 SMY Allocations at Experiment Stations in the South: Community Services (1.00) <u>a</u> /, continued. <u>Agricultural Rural Home Agricultural Total Total To</u> <u>Itaming 0k1456(1.4)</u> Planning 0k1492(.35) Housing Equip. & Ar678(1.0) Furnishings Ar678(1.0) V626116(1.1) S872(.6) 5							
Table 1-A. Summary of Rural Development Research Projects and $1972-73$ SMY All at Experiment Stations in the South: Community Services $(1.00)\underline{a}/$,		Image: Second condictionAddition of the second				pline	Torut Fuctors	Total	Total
Table 1-A. Summary of Rural Development Research Projects and 1972-73 SMY Allocations at Experiment Stations in the South: Community Services (1.00)a/, continued. Discipline	Discipline Discription Total Total	0k1456(1.4) 0k1456(1.4) Tx3026(.5) Tx3026(.5) Planning \$\$87(1.9) 0k1492(.35) 0k1492(.35) Housing Equip. & Ar678(1.0) Furnishings \$\$872(.6) 5		Economics		nics	Engineering	Projects	SMY's
Table 1-A. Summary of Rural Development Research Projects and 1972-73 SMY Allocationsat Experiment Stations in the South: Community Services (1.00)a/, continued.at Experiment Stations in the South: Community Services (1.00)a/, continued.AreaDisciplineAreaSociologyEconomicsSociologySociologyEconomicsProjects	AreaDisciplineAconomicsSociologyBeconomicsSociologyEconomicsSociologyEconomicsSociologyEconomicsEconomicsSociologyEconomicsEconomic	Housing Equip. & Ar678(1.0) V626116(1.1) S872(.6) 5	10 Planning	0k1456(1.4) Tx3026(.5) S987(1.9) 0k1492(.35)				2	2.25
dix Table 1-A. Summary of Rural Development Research Projects and 1972-73 SMY Allocations at Experiment Stations in the South: Community Services (1.00) <u>a</u> /, continued. <u>Agricultural Rural Home Agricultural Total Economics Sociology Economics Economics Projects</u> Planning S987(1.9) (k1456(1.4) Planning Cokl42(.35)	Image: Second condition Discipline Discipline Image: Second condition Agricultural Total Image: Second condition Economics Sociology Image: Second condition Sociology Economics Image: Second condition Sociology Economic		Housing Equip. Furnishines	Ar678(1.0)	Δ62611	16(1.1)	S872(.6)	υ	4.8

1.12 Legal Institutions & Legal services V616152(.1) 1.13 Financial Services L1555(.9) Total Projects 29 4 1							
29 4		/616152(.1) L1555(.9)					н е
	Projects	29	Ą	1	e	37	1
Total SMY's 13.6 1.6 1.1	SMY's	13.6	1.6	1.1	2.8	I	19.1

S872(.6) T333(2.0)

Ar678(1.0) N13327(.1)

a s

a/Letters represent states: A=Alabama, Ar=Arkansas, N=North Carolina, etc.

SOURCE: Southern Regional Rural Development Research Committee, July 20,1973.

2.01 Human Development	K93(.68) T285(.65) T385(.25) Ar746(.7) N13231(.4) N1332(.6)	G425(.4) K811(1.09) Tx1969(.1) A327(.4) C439(.8) L1231(.1) M4006(.3) S982(1.2) Tx2811(.4)		S826(.2) T256(1.2)		17	9.47
2.02 Welfare	F1629(1.1)	F1629(.2)				2	1.3
2.03 Health & Nutrition				Tx1967(.1) M4003(.81) A341(.3)		en	1.21
2.04 Demography	G442(.2)	M4004(.75) 8965(.2) T274(.33) N3266(.4)	G442(.2) S970(.3) N3265(.4) Tx1833(.6)			6	3°38
2:05 Education Program Effectiveness	FAMU(.2) Tx1995(0)	A318(.2) FAMU(2.3)	Tx1839(0)	V616158(1.4)	0k1523(.25)	L	4.35
2.06 Household Dec. & Mgt.		2		L1558(.66) N13323(.9)		N13325(.9) 3	2.46
						(Continued)	

Summary of Rural Development Research Projects and 1972-73 SMY Allocations at Experiment Stations in the South: Human Resources (2.00). $\underline{\underline{a}}$ Appendix Table 1-B.

42

Total Total Projects SMY's

Education

Agricultural Education

Discipline Home

Economícs

Rural Sociology

Agricultural Economics

Problem Area

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8.54	ŝ	1	31.46			
17	2	61	3			
Э						
		-	6,			
		-	.25			
(6		6	6.47			
T354 (.9)				etc.	SUUKUE: SOULREIN KEGIONAL KUFAL DEVELOPMENT KESEAFCN COMMITTEE, JULY 20, 13/3.	
6(.1) (.89) 88(0) 9(.3) (.25) 91(0)		ŝ	18.23	<u>a</u> /Letters represent states: A=Alabama, Ar=Arkansas, N=North Carolina, etc.	e, JuLy	
L1556(.1) M4101(.89) N13388(0) N11079(.3) P276(1.0) T331(.25) Tx2791(0)				orth Ca		
Ar693(1.0) K813(.29) L1147(.1) A316(.10) G432(.67) K815(1.21) L1557(.1) M4102(.4)	Tx2586(0)			as, N=No	search vo	
Ar69 K81 L11 A31 G43 K815 K815 K815 K815 M41	Tx2			=Arkans	lent Kes	
((.33)	32 (.5)	12	5.61	ama, Ar	пфотала	
6432 (.	F1632			A=Alab	n teruna	
				states:	gronar	
lfe Å				resent	лети ке	
2.08 Level of Living & Quality of Life	Policy	cts		ers rep	inoc :	
Level (Quali	2.09 Public Policy	Total Projects	Total SMY's	<u>a</u> /Letto	SOURCE	
2.08	2.09	Totaj	Total			

Total SMY's

Total Projects

Education

Agricultural Education

Discipline Home Economics

Rural Sociology

Agricultural Economics

Tx1895(.25)

2.07 Community Dec. Making

Problem Area

2.08 Level of Living & Quality of Life

Summary of Rural Development Research Projects and 1972-73 SMY Allocations at Experiment Stations in the South: Human Resources $(2,00) \frac{2}{3}$, continued.

Appendíx Table 1-B.

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mmary of Rural Development Research Projects and 1972-73 SMY Allocations at Experiment Stations in the South:	
Appendix Table 1-C. Sur	1117

			Disc	Discipline			
Problem Area	Agric	Agricultural Economics	Rural Sociology	Agronomy	Animal Science	Total Project	Total SMY's
3.01 Holding & Attracting Industry	G1146(.12)	6435(.5)				N	۲.
3.02 Plant Location						0	0
3.03 Inc. & Emp. Effects of Rural Industry	M4302(0)	K96 (.75)				7	.75
3.04 Inc. & Emp. Effects of Nat. Res. Invest.	M4301(.2) A315(.4) A359(.5) F1473(.3)	L1554(.3) G412(.25) T303(.25) Ar715(.4)	×			œ	2.6
3.05 Alt. Uses of Nat. Res.	A053(1.3)		K814(.32)			2	1.62
3.06 Rural Recreation Ent.	A299(.5)	6436(.3)				2	80
3.07 Technology for Small Farms	L1552(.2) P267(1.0)	P277(2.1)		P267(.8)		4	4.1
3.08 Ent. for Small & Part- Time Farms	G1120(.16) G1122(.4)	P245(.2)	P245(.5)		Tx1972(.1)	S	1.36
3.09 Economic Interaction in Rural Areas	F1436(.2) L1553(1.8)	G1071 (1.0) K89 (.86)				13	8.26
						(Cont	(Continued)

Appendix Table 1-C. Summary of Rural Development Research Projects and 1972-73 SMY Allocations at Experiment Stations in the South: Income and Employment (3.00) $\frac{3}{2}$, continued.

			Disc	Discipline			
Duck] on Area	Agricultural Economics	gricultural Economics	Rural Sociology	Agronomy	Animal Science	Total Projects	Total SMY's
	G440(.6) Gk1456(.35) Tx1768(.75) M4402(.2) F1628(.5)	T327(1.0) T328(.4) V616155(.3) V626179(.3)					
3.10 Inc. & Emp. Effects of Taxation & Reg's.	M4009(.2) G434(.25)	\$986(.2)				m	.65

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-		<u>A</u> /Letters represent states: A=Alabama, Ar=Arkansas,N=North Carolina, etc. SOURCE: Southern Regional Rural Development Research Committee, July 20, ¹ 973.	
37	19.12	, N=N	
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ects	w	ter: E:	
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Total Projects	al		

Appendix Table 1-D. Rural Development Research Projects at Experiment Stations, by State and Project No., Southern Region, 1972-73.a/

Alabama

- Title 048 Implementation of Continuance Planning Program in Outdoor Recreation, II.
- 299 Economic Evaluation of Selected Outdoor Recreation Facilities
- 315 Effects of Investments in Recreational Resources on Income and Employment in Barber and Marshall Counties Alabama
- 316 Rural Development and the Quality of Life in the Rural South 318 Impact of the Expanded Food and Nutrition Education Program
- on Low-Income Homemakers in Selected Alabama Counties 326 Full-Time Hired Farm Labor Situation in Alabama
- 327 Development of Human Resource Potentials of Rural Youth in the South and Their Patterns of Mobility
- 341 Patterns of Food Intake and Nutritional Health of Girls
- 359 Post-Project Evaluation of the Cheaha Creek Watershed Development Under Public Law 566
- 363 Solid Waste Management for Northwest Alabama Using Sanitary Landfills

Arkansas

Title

- 674 Delineation of Sociocultural Areas and Ecological Regions of Arkansas
- 678 Rural Housing in Selected Areas of Arkansas; Situation, Needs and Potential, and the Role of Financing
- 693 Changes in the Socioeconomic Status of Families in Low-Income, High-Migration Rural Areas
- 715 Regional Income and Employment of Investments in Natural Resources
- 745 Relationship of Local Public Financing to Needed Public Services
- 746 Human Resource Development in the Framework of Rural Development
- 747 Factors Affecting the Use of Medical Services in Rural Areas of Arkansas

(Continued)

a/See Appendix Tables 1-A, 1-B, and 1-C for classification.

SOURCE: Southern Regional Rural Development Research Council.

Florida No. Title Determinants of the Rate of Growth in Employment of the North 1436 Florida Area Economy 1473 Regional Income and Employment Effects of Investments in Natural Resources An Economic Analysis of Selected Outdoor Recreational Resources 1623 in Florida 1628 Planning for Economic Growth and Resource Management Incidence and Causes of Rural Poverty and Economic Benefits 1629 of Poverty Programs 1630 Planning and Financing Public Services for Rural Communities 1632 Agricultural and Rural Labor Markets Information Consumption by the Client System as a Strategy to Fla. A&M (Un-numbered) Reduce the Impact of Rural Poverty

Georgia No.

110.	
412	Employment and Income
	Resources in Georg
425	Human Resource Develo
	and the Southeast
432	Rural Development and
434	Economic Impact of Pr
	in Georgia
425	Potentials for Rural
436	Expansion of Employme
	Enterprises
439	Development of Human
	the South and Thei
440	Regional Analysis for
442	Social and Economic I
	of Georgia with Re
1071	The Magnitude and Sig
	Changing Economy
1120	Potential and Alterna
	Residents and Part
1121	Alternatives and Cost
	Urban Fringe and R
1122	Economic Evaluation of
	Farm Families
1146	Industrial Parks in R

40

Appendix Table 1-D. Rural Development Research Projects at Experiment Stations, by State and Project No., Southern Region, 1972-73, continued.

Title

e Effects of Investments in Natural g1a opment Problems and Potentials in Georgia

d the Ouality of Life in the Rural South roperty Taxes on Agricultural Land Use

Economic Development ent Opportunities in Rural Recreational

Resource Potentials of Rural Youth in ir Patterns of Mobility r Rural Development Implications of the Changing Population eference to the Entire South gnificance of Rural Farm Labor in a

atives for Land-Holding Rural-Nonfarm t-Time Farmers in Piedmont, Georgia ts of Handling Solid Waste Materials in Rural Communities of Alternative Enterprises for Part-Time

Rural Areas of Georgia

Appendix Table 1-D. Rural Development Research Projects at Experiment Stations, by State and Project No., Southern Region, 1972-73, continued.

Kentucky	
No.	Title
77	Funding and Resource Allocation in Rural Kentucky Schools
85	Supplying and Financing Local Public Services in Rural Areas to Meet Changing Economic Conditions
89	Development of Procedures for Quantifying and Assessing the Economic Well-Being of Rural Areas in Kentucky
93	Economic Implications of Migration for Eastern Kentucky
96	Factors Affecting the Marketing of Wood Handicraft Products in Kentucky
123	Determination of Optimum Reservoir Capacity for Rural Water Supplies
811	Influences on Occupational Goals of Young People from Three Subcultures in the South
813	Social Factors in the Development and Use of Kentucky's Natural Resources for Outdoor Recreation
814	Supply of and Demand for Public Forest Recreation in the North Central Region
815	Rural Development and the Quality of Life in the Rural South
Louisiana	
No.	Title
1147	Characteristics and Problems of the Aged in a Diffused Rural Society
1231	Development of Human Resource Potentials of Rural Youth in the South and Their Patterns of Mobility
1552	Economic Feasibility of Organizing, Financing and Managing Farm Cooperatives for Low-Income Farmers and Rural Residents
1553	The Impact of Agricultural and Non-Agricultural Developments upon the Economies of Selected Rural Areas in Louisiana
1554	The Potential for Development and Economic Impact of Outdoor Recreation Facilities in Selected Rural Areas in Louisiana
1555	An Economic Evaluation of Credit and Financial Resource Problems of Low-Income Farmers and Rural Residents in Selected Areas of Louisiana
1556	
	The Human Ecology and Recreational Impact of Toledo Bend Reservoir
1557	Rural Development and the Quality of Life in the Rural South
1558	Home and Family Decision Making Processes for Rural Families

Appendix Table 1-D.

1972-73, continued.

1612 Appraisal of Public Expenditures and Sources of Public Revenues with Emphasis on Land Resources 1617 An Economic Analysis of Providing Community Services in Rural Areas of Louisiana

Mississippi

No.	
4003	Nutritional Status:
4004	Distribution, Compos:
	Population
4006	Development of Human
	Mississippi and Th
4008	Alternative Medical
	in Mississippi
4009	Alternative Methods
	of Mississippi
4101	Socio-cultural and S:
	Rural Areas in Mis
4102	Rural Development and
4301	Regional Income and 1
	Natural Resources
4302	Job Creation and Emp.
4303	Costs of Alternative
	Areas of Mississi
4304	Institutional Struct
	Services
4402	Estimates of Relation
	Economy

No. 3265 The Changing Community 3266 11079

North Carolina

 13323 Consumer Preference, Low-Income Famili 13326 Decision Models for metropolitan Area 	13231	Problems of Populatio
 13326 Decision Models for metropolitan Area 13327 Development of Improv 	13323	Consumer Preference,
metropolitan Area 13327 Development of Impro		Low-Income Familie
13327 Development of Improv	13326	Decision Models for S
1		metropolitan Areas
Families	13327	Development of Improv
		Families

(Continued)

Rural Development Research Projects at Experiment Stations, by State and Project No., Southern Region,

Title

A Sociological Approach sition, and Major Demographic Processes of

Resource Potentials of Rural Youth in heir Patterns of Mobility Service Delivery Systems for Rural Areas

of Funding Public Services in Rural Areas

Situational Factors in Poverty in Selected ssissippi

d the Quality of Life in the Rural South Employment Effects of Investments in

loyment in Rural Areas Water and Sewerage Systems in Rural ppi

ures for Improving Rural Community

onships among Sectors of Mississippi's

Title

Determinants and Consequences of Population Trends Rural Development and the Quality of Life in the Rural South on Decline in Rural Areas Choice and Decision-Making of Rural es School Facilities Construction in Nons of North Carolina

ved Housing for Rural North Carolina

Appendix Table 1-D. Rural Development Research Projects at Experiment Stations, by State and Project No., Southern Region, 1972-73, continued.

- 13332 The Economics of Professional Driver Training
- 13357 An Economic Analysis of the Financing of Local Governments in North Carolina
- 13388 Housing Needs and Satisfactions of Rural Families in North Carolina

Oklahoma

- No. Title
- 1456 Data Information Systems for Rural Planning
- An Economic Analysis of Education and Other Institutional 1457 Services for Rural Areas
- 1492 Analysis for Rural Development Planning
- 1494 Design and Criteria for Health Planning Systems in Rural Areas
- 1523 Construction and Evaluation of a Career Development Program in Agricultural Occupations for Advantaged and Less-Advantaged Rural Youth

Puerto Rico

No.

Title

- 245 Population and Farm Types in the Coffee Region
- Scientific Farm Organization for Rural Development 267
- 277 Organization of Family-Type Food Crop Farms

South Carolina No.

Title

- 046 Optimizing the South Carolina Community Hospital System for Improving Access by Rural Residents
- 826 Influences on Occupational Goals of Young People
- 872 Physical, Social and Economic Aspects of Functional Housing for Low Income Families
- 932 Economic Study of Alternative Systems for Distributing Water Supplies in a Decentralized Urban-Industrial Area
- 965 The Social Impact of Economic and Population Change in Transitional South Carolina Counties
- 970 Analysis of Demographic Data for the Human Resources of South Carolina
- 982 Development of Human Resource Potentials of Rural Youth in South Carolina and Their Patterns of Mobility
- 986 The Effects of Selected Changes in the Real Property Tax System on Agricultural Land Use and Tax Revenues in South Carolina
- 987 Economic and Sociological Aspects of Comprehensive Land-Use Planning in South Carolina

Tennessee No. Influences on Occupational Goals of Young People 265 274 285 Farm Labor in Tennessee 303 Natural Resources 327 328 in Tennessee 331 333 Tennessee 354 365 No. 1768 the Perional E. 18 18 18

Texas

	the Regional Econ
1833	Human Resource Chara
	Agriculture and Ru
1839	An Evaluation of the
	in an Educational
1895	The Interaction of On
	ically-Growing Nor
	10,000-50,000 Popu
1967	Food Choices and Nut
1969	Factors Affecting Pat
1972	Alternative Technical
	duction and Market
1995	Man/Computer Symbiosi
	Implications
2586	An Economic and Socio
V	the Northeast Stat
2791	
4771	Rural Development and South
2811	
2011	Development of Human
0000	the South and Thei
3026	The Economics of Inst
	Rural Communities

3148 Institutional Structures for Improving Rural Community Services

(Continued)

Appendix Table 1-D. Rural Development Research Projects at Experiment Stations, by State and Project No., Southern Region, 1972-73, continued.

Title

Migration Patterns of the Tennessee Population Regional Income and Employment Effects of Investments in

Delineation of Functional Economic Areas in Tennessee Socio-Economic Characteristics of Rural Development Areas

Rural Development and the Quality of Life in the Rural South Evaluation and Improvement of Low-Cost Rural Housing in

Assessment of Family Functioning in Rural Areas of Tennessee Evaluation of Vocational Training for Rural People

Title

Interindustry Analysis of the Economy of Texas: Emphasizing nomy of Northeast Texas acteristics and Changes in Relation to lural Development in Texas Effectiveness of Indigenous Personnel Program rganizations and Individuals in Economnmetropolitan Texas Communities of ulation ritional Health of the Older Age Group tterns of Living of Disadvantaged Families 1 and Economic Systems of Swine Proting on Small Farms is: The Rural Development and Academic ological Study of Agricultural Labor in tes d the Quality of Life in the Rural Resource Potentials of Rural Youth in ir Patterns of Mobility titutional Arrangements for Viable Rural Communities in the Great Plains

Appendix Table 1-D. Rural Development Research Projects at Experiment Stations, by State and Project No., Southern Region, 1972-73, continued.

Virginia	
No.	Title
616152	The Real Property Tax in Community Development
616154	Economic Consequences of Ecological Decisions: A Case Study
	of Saltville, Virginia
616155	Economic Development of the Eastern Shore of Virginia
616158	Effects of Education and Food Programs Upon Health and Level of Living
626116	Physical, Social and Economic Aspects of Functional Housing for Low-Income Families

626179 Processes of Rural Economic Change in the Northeast

52

Planning Muiti-County Areas for Economic Development	Ability of Rural Families in Ozark Region to Find Adequate Housing	Human Resource Adjustments in Response to Technological Change in the Flue-Cured Tobacco Area	Social Aspects of Aging in Appalachia
ę.	1.0	1.2	1.0
0k.	Ark.	s. c.	Ky.
EDD	EDD	EDD	EDD
1.10	1.11	2.01	

& Local Public Facility Needs in Southeast United States

Analysis of State and Investment

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of Central Public Facilities Areas

Location Rural

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Texas

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1.01

Title

SMY

Place

Agency or ERS Division*

Matr1x Code

Allocations for

SMY

and

Summary of Rural Development Reserach Projects USDA, Southern Region, 1972-73.

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Table

Appendix

Community Services and Economic n a Multi-County Area

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Relationship of Development

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RDS

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de Ef5 Divusiont Place Mr Title EDD Ark. .4 Analysis of Poverty in Arkanasa and Nearby States EDD Ark. .6 Ractors Affecting Occupational Choice and Adjustment of Nural Touth EDD Ark. .5 Household Responses in an Area Undergoing Technological Change N RD .6 Improving Local Nural Development Decisions Technological Change N BD .6 Improving Local Nural Development Decisions Technological Change N N. H. .5 Household Responses in an Area Undergoing Technological Change N ND .6 Improving Local Nural Development Decisions Technological Change N ND .6 State-Local Nural Development Decisions Technological Structures and Local Mississippi Delta N Miss .1.2 Job Creat Planes Mississippi Delta Mississippi Delta	Matrix				
EDDArk4Analysis of Poverty in Arkanaas and Wearby StatesEDDArk6Factors Affecting Occupational Choice and Adjustment of Rural YouthRDSN. H5Household Responses in an Area Undergoing Technological ChangeRDSOk6Improving Local Nural Development Decisions the Great PlainsRDDD. C8Factors Associated with Upward Escape from Mississippi DeltaBDDWa6State-Local Fiscal Structures and Local Government Finances and ServicesBDDMiss.1.2Job Creation and Employment in Nural Areas	Code			SMY	Title
EDDArk6Factors Affecting Occupational Choice and Adjustment of Rural YouthRDSN. H5Household Responses in an Area Undergoing Technological ChangeRDSOk6Improving Local Rural Development Decisions Technological ChangeRDDD. C8Ractors Associated with Upward Escape from Mississippi DeltaBDDVa6State-Local Fiscal Structures and Local Government Finances and ServicesBDDMiss.1.2Job Greation and Employment in Rural Areas		EDD	Ark.	4.	of Poverty in Arkansas
RDS N. H. .5 Household Responses in an Area Undergoing Technological Change N RDS Ok. .6 Improving Local Rural Development Decisions the Great Plains B EDD D. C. .8 Factors Associated with Upward Escape from Poverty Among Male Household Heads in the Mississippi Deita D EDD Va. .6 State-Local Fiscal Fircultures and Local Government Finances and Services Missis 1.2 Job Creation and Employment in Rural Areas Missis 1.2 Job Creation and Employment in Rural Areas			Ark.	· •	Affecting Occupational stment of Rural Youth
7 RDS Ok. .6 Improving Local Rural Development Decisions the Great Flains 8 EDD D. C. .8 Factors Associated with Upward Escape from Poverty Among Male Household Heads in the Mississippi Delta 0 EDD Va. .6 State-Local Fiscal Structures and Local Government Finances and Services 1 Miss. 1.2 Job Greation and Employment in Rural Areas 1 Miss. 1.2 Job Greation and Employment in Rural Areas	243.	RDS	N. H.	.5	Responses in an logical Change
8 EDD D. C. .8 Factors Associated with Upward Escape 9 EDD Va. .8 Poverty Among Male Household Heads 1 EDD Va. .6 State-Local Fiscal Structures and Loca 2 EDD Va. .6 State-Local Fiscal Structures and Loca 3 EDD Missis 1.2 Job Greation and Employment in Rural A 7 Missis .1.2 Job Greation and Employment in Rural A	2.07	RDS	Ok.	• 6	Local eat Pla
EDD Va. .6 State-Local Fiscal Structures and Loc Government Finances and Services B EDD Miss. 1.2 Job Greation and Employment in Rural (Continued) (Continued)	2.08	EDD	0	80	Associated with Upward Escape :ty Among Male Household Heads Essippi Delta
Miss. 1.2 Job Greation and Employment in Rural (Continued)	2.09	EDD	Va.	.6	ictures and and Service
	3.03	EDD	Miss.	1.2	Creation and Employment in Rural
			i.	2	(Continued)
	Appendix	Table 2.	0		h Projects and SMY Allocations for inued.
Table 2. Summary of Rural Development Research Projects and SMY Allocations USDA, Southern Region, 1972-73, continued.	Matrix Code	Agency or ERS Division*	Place	SMY	Title
<pre>ix Table 2. Summary of Rural Development Research Projects and SMY Allocations USDA, Southern Region, 1972-73, continued. Agency or ERS Division* Place SMY</pre>		RDS	Fla.		Relationship Between Changes in Economic Activity and Employment in Rural Multi-County Areas
<pre>ix Table 2. Summary of Rural Development Research Projects and SMY Allocations for USDA, Southern Region, 1972-73, continued. Agency or ERS Division* Place SMY Title RDS Fla1 Relationship Between Changes in Economic and Employment in Rural Multi-County A</pre>	3.09	EDD	D.C.	1.4	Interindustrial and Interregional Structures of Economic Regions
ndix Table 2. Summary of Rural Development Research Projects and SMY Allocations for USDA, Southern Region, 1972-73, continued. IX Agency or ERS Division* Place SMY Title RDS Fla1 Relationship Between Changes in Economic and Employment in Rural Multi-County A EDD D.C. 1.4 Interindustrial and Interregional Structu					

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Economic Development, Structure, and Areas of Potential Growth

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D.C.

EDD

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N. C. 1.5 Methods for Selecting, Planning, Managi Evaluating Recreational Sites, Phase 0k. 0.8 Cultural and Recreational Facilities in 10,000 - 18,000 Population in Oklaho 0k. 0.2 Effect of Communication and Transportat Utilization of Services by Low-Incom Rural People Miss. 1.0 Basic Human Needs in Rural Development Ark. 0.5 Factors of Disadvantagement as Related Performance Ark. 0.5 Factors of Disadvantagement as Related		Agency or ERS Division & Proiect Number	Place	SMY's	Title
CSRS 0k. 0.8 Cultural and Recreational Facilities in 0klaho 375-EL 375-EL 10,000 - 18,000 Population in 0klaho 375-EL 5.5 0.2 Effect of Communcation and Transportat CSRS S. C. 0.2 Effect of Communcation and Transportat CSRS Niss. 1.0 Basic Human Needs in Rural Development 011 CSRS Miss. 1.0 Basic Human Needs in Rural Development 1973-4 5 TSX-PR-0003- Miss. 0.5 Factors of Disadvantagement as Related MISX-PR-0003- Miss. 0.5 Factors of Disadvantagement as Related RISX-R45-2110 Ark. 0.5 Factors of Disadvantagement as Related AR.X-45-2110 Performance (Continued)		SRS 3.X-PR-0007- 309-12	и. с.	1.5	for Selecting, Planning, Managing uating Recreational Sites, Phase I
CSRS S. C. 0.2 Effect of Communication and Transportat SC.X-PR-0003- 011 Utilization of Services by Low-Incom RNSX-PR-0003- 1973-4 Miss. 1.0 Basic Human Needs in Rural Development CSRS Miss. 0.5 Factors of Disadvantagement as Related Performance Performance (Continued)		5RS CLX-PR-0004- 375-EL	Ok.	0.8	
CSRS MISX-PR-0003- 1973-4 CSRS AR.X-45-2110 Ark. 0.5 Factors of Disadvantagement as Related Performance (Continued)		SRS J.X-PR-0003- 011		0.2	Effect of Communication and Transportation on Utilization of Services by Low-Income Rural People
CSRS AR.X-45-2110 D.5 Factors of Disadvantagement Performance (Continu		SRS ISX-PR-0003- 1973-4	. Miss.	1.0	
		sRS 1.X-45-2110	Ark.	0.5	Factors of Disadvantagement as Related To School Performance
				8	(Continued)
	Agenc Matrix ERS I Code & Pro	Agency or ERS Divsion & Project Number P	Place	s'' 's	Títle

ríx de	Agency or ERS Divsion & Project Number	Place	SMY's	Títle
	CSRS GEO-FVSC- CSRS-03	Ga.	0.3	Human Resource Development
	CSRS OKLX-PR-0004- 274-S	0k.	0.5	An Experiment in Early Childhood Education in a Rural Setting
	CSRS OKL-AR-03	ok.	0.1	College Career Development Study of the Rural College Student

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Work Motivation of Culturally-Disadvantaged Urban and Rural Workers in Tennessee		Comparision of Rural Poverty in North Carolina and Wisconsin with Implications for Labor force Partici- pation Rates	An Evaluation of the Effect of Income Maintenance Programs on Rural People in North Carolina
1.0	0.8	0.1	0.1
Tenn.	Ark.	и. с.	и. с.
CSRS TENX-PR-0001 34566	CSRS AR.X-45-2070	CSRS NC00307-20-C	CSRS NC00307-51-B

2.02

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1890 Institutions, Southern Region, 1972-73, continued. ency or S Division Project Number Place SMY's Title RS Ky. 1.4 Monitoring Sub-Clinical Malnutrition .X-PR-0001- DevelopmentHome Economics	CSRS KY.X-PR-00102 CSRS KY.X-PR-0001- 15 KX.X-PR-0001- 15 Appendix Table 3. Summar	- Ky. - Ky.	lopment Resea	earch Projects and SMY Allocations at
CSRS Ky. X-PR-0001- KY.X-PR-0001- KY.X-PR-0001-	Agency ERS D1 & Proi	Place	SWY 1 SWY 1	ntinued.
		ber	5. XMZ	Sub-Clinical hentHome Ecc
K-0001- Ky. 0.3 Eating Habits and Nutritional in Kentucky	CSRS KY . X-PR-000: 19A		0.3	

Monitoring Sub-Clinical Malnutrition to Enhance Rural	Monitoring Sub-Clinical Malnutrition to Enhance Rural	The Effect of Dietary Trace Elements in a Selected	A Study of Family Planning of Low-Income Families	(Continued)
Development - Sociology	Development - Chemistry	Population	in Small Towns of Lousiana	
2.4	0.8	0.1	0.3	
Ky.	ky.	Ky.	La.	
CSRS	CSRS	CSRS	CSRS	
KY.X-PR-0001-	KY.X-PR-0001-	KY.X	LA. X-PR-0003-	
24	14	KY00101	8015-6	

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	Agency or			
Matríx Code	EKS Division & Project Number	r Place	SMY'S	Title
	CSRS NC.X-PR-0001- 309-07	м. с.	0.5	Occupational Hazards in Agriculture and Rural Industry
	CSRS NC00307-63-B	N. C.	0.1	Levels of Nutrition Health in Rural Eastern North Carolina
	CSRS NC.X-PR-0004- 309-08	N. C.	0.2	Factors Influencing the Utilization of Federal Food- Aid Programs
	CSRS SC.X-PR-0001-1	s. c.	1.5	Nutritional Status of Rural People in Hampton County and Influence of Nutrition Education
	CSRS SC00005	s. C.	0.4	Nutritional Status Studies of Adolescent Girls in Selected Areas of South Carolina
	CSRS SC.X-PR-0003- 009	s. c.	1.0	Identification and Evaluation of Pollutants in Rural Drinking Water Supplies
	CSRS TEN-0001-4166- 34434	Tenn.	0.5	
				(Continued)
Appendix Table	з.	Summary of Rural Development 1890 Institutions, Southern	lent Research rn Region, 1	ch Projects and SMY Allocations at 1972-73, continued.
Matrix Code	Agency or ERS Division & Project Number	Place	SMY's	Title
	CSRS TENX-PR-0004- 34536	Tenn.	0.5	Nutritional Status of Low-Income Families in Four Tennessee Counties
	CSRS TEN-01-4122 34204	Tenn	0.5	Eating Habits and Patterns of Selected Low-Income Families in Two West Tennessee Counties
	CSRS TEXX-PR-0004- G-1969	Tx.	0.4	Factors Affecting Patterns of Living of Disadvantaged Families

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	CSRS TEXX-PR-0004- G-1969	Tx.	0.4	Factors Affecting Patterns of Living of Disadvantaged Families
	CSRS VA.X-PR-0002- 111779	Va.	0.5	Improvement of Food Safety and Consumption in Rural, Low-Income Southside Virginia
	CSRS VA.X-PR-0004- 1771A	Va.	0.5	A Study of Fire Hazards in Homes of Low-Income Families of Southside Virginia
2.04	CSRS TENX-PR-0001- 34556	Tenn .	1.0	Human Resources in Rural Areas of West Tennessee
				(Continued)

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aropi yrnnaddw	lante J. Summary Of Kural Development Research Frojects 1890 Institutions, Southern Region, 1972-73, co	ALTIONS, Sout	UCIN MELTU	
Matrix Code	Agency or ERS Division & Project Number	Place	s'' YMS	Title
	CSRS TEXX-PR-0002- G-1968	Tx.	0.3	Change in the Nature, Composition, and Socio-Economic Conditions of Black Families in Texas
2.05	CSRS FLAX-PR-0003- 4248	Fla.	1.5	Information Consumption by the Client System as a Strategy to Reduce Rural Poverty
2.06	CSRS KY.X-PR-0001- 13A	Ky.	0.3	Income and Expenditure Patterns for a Group of Select Counties in Kentucky
	CSRS NC.X-PR-003- 309-07	И. С.	0.3	Textiles and Clothing Information Needs of Low-Income Families in North Carolina
2.07	CSRS OKL-AR-05	Ok.	0.2	Identification of Community Leaders in a Rural, Predominantly Black Community
2.08	CSRS AR.X-45-2030	Ark.	0.3	Relationship Between Personal Characteristics and Housing Environment
	CSRS OKLX-PR-0004- 274-S	Ok.	6.0	An Analysis of the Socio-Economic Characteristics of Black Towns in Oklahoma
				(Continued)
Appendix Table	3. Summary 1890 Ins	of Rural Devel	evelopment Research Southern Region, 19	arch Projects and SMY Allocations at 1, 1972-73, continued.
Matrix Code	Agency or ERS Division & Project Number	Place	SMY'S	Title
	CSRS SC.X-PR-0003-08	s. C.	0.1	An Exploratory Study of Socio-Economic Conditions in South Carolina
3.07	CSRS LA.X-PR-0002- 8-15-5	La.	0.8	An Analysis of the Economic Factors Affecting the Success of Small Farm Operators

Alternative Income Opportunities for the Limited Resource Farmer in Three North Carolina Counties	Economic Feasibility of Organizing Marketing and Supply Cooperatives by the Low-Income Farmers	Economic Feasibility of Pre-Broiler Production by Low-Income Farm Families	(Continued)	
0.2	0.5	0.2		
с.	х. С.	Tx.		
CSRS NC.X-PR-0001- 309-86	CSRS SC.X-PR-0003- 010	CSRS TEXX-PR-0003- G-1971		

Asparagus as a High Income Per Acre Cash Crop for Limited Resource Farmers

CSRS Ga. 1.2 GEOX-PR-0003-72PS-0

3.08

Matrix Code	Agency or ERS Division & Divisor Number	D1 000		
0000	Taning I and the tangent	LIACE	S ILIC	Title
	CSRS TEXX-PR-0003 G-1972	Tx .	0.2	Alternative Technical and Economic Systems of Swine Production and Marketing on Small Farms
3.09	CSRS ALAX AT A DD 0002 1	Ala.	0.1	Income Inequality and Its Relationship to Community Structures and Community Interactions
	73-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			A set of the
	CSRS AR.X-45-2090	Ark.	1.0	Earnings of Farmers Through Cooperative Action in Arkansas
	CSRS SC00003	s. c.	0.2	Migrant Labor in the Southern Coastal Plain of South Carolina
	CSRS TENX-PR-0001- 34816	Tenn.	0.1	Changes in Industrial Structure in West Tennessee and Its Impact on Development in Rural Areas
4.00	CSRS NC.X-PR-0006- 309-12	N. C.	1.5	Agricultural Waste Management and Environmental Quality Phase I

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- pp. 109-112.
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- Farm Foundation, 1972, pp. 45-55.
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