

**SMALL FARMER TECHNOLOGY**  
**AND**  
**MARKETING ANALYSIS FOR RURAL DEVELOPMENT**

**211 (d)**

**Second Annual Report**  
**Submitted to**  
**U. S. Agency for International Development**  
**Washington, DC**  
**September 1, 1978 - August 31, 1979**



North Carolina A&T State University  
Greensboro, North Carolina

November 1979

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## 211(d) Annual Report

## TITLE PAGE

Date Due: October 31, 1979  
Date: November 30, 1979

## Grant Title:

Small Farmer Technology and Marketing  
Analysis for Rural Development

## Grantee:

North Carolina A&T State University  
Greensboro, North Carolina

## Grant Program Director:

Richard D. Robbins, Director  
Rural Development Project

## AID Sponsoring Technical Office:

Development Support Bureau

Statistical Summary

## Period of Grant:

August 31, 1977 to August 30, 1982

## Amount of Grant:

\$750,000

## Expenditures for Report Year:

\$63,064.10

## Accumulated:

\$128,334.65

## Anticipated for Next Year:

\$223,500.00

## B. NARRATIVE SUMMARY

Some progress was made on each of the components of our grant during the year. The study on income distribution in Korea and Tanzania was continued by Dr. Dong K. Jeong. Two studies were done by Dr. William Lawson; "Rural Development, Education and Fertility: A State-of-the-Arts Paper," and "An Analysis of Small Farms: How the County Extension Chairmen see the Small Farmer in North Carolina."

Activities on information continued during the year. Plans were made and implemented for a newsletter to be published quarterly. Additional books were purchased for the library; new journal subscriptions were ordered.

Large gains in education were made during the year. Additional students received grant support, several faculty members attended professional meetings, and several courses were revised. Most importantly, the Master of Science degree in Agricultural Economics was approved and implemented during the fall semester 1979. The Master of Science degree has three program tracks--Rural Development, Agricultural Marketing and Production Economics. Each program track requires a thesis.

Some advisory and consultative services were provided. The African American Scholars Council requested Richard D. Robbins to chair a session on "Agriculture and Food Production Systems." Dr. Anwar Khan was asked to represent USAID in the CENTO conference in December 1978. In addition, several faculty members attended the Program Design and Evaluation Seminar. These seminars have increased the faculty understanding and knowledge of developmental issues and problems.

Linkages have also been established with domestic institutions.

SECID (South East Consortium for International Development) agreed to have three of our students in an intern program during the summer of 1979. TVA (Tennessee Valley Authority), through the Economic Development Division, supported one of our students. Discussions were held in Washington on linkages with Tanzania. A tentative trip to Tanzania was set for November 1979.

### C. DETAILED REPORT

#### 1. General Background and Description of Problem

The rural poor are found across the world but are concentrated in Asia, Africa, and Latin America. They make up a large segment of the population of the developing countries, and many depend upon agriculture for existence. The rural poor have limited resources, limited access to technology and services, and a high birth rate. Poor climatic conditions, low wage structures, low productivity, and limited educational opportunities characterize the rural poor.

Rural development will have to focus on increasing productivity and incomes of the rural poor. Rural Development strategies must consider the occupational migration of people; population growth and the limitations imposed on resources, technology, and institutions; and, the available production factors that can be mobilized to reduce poverty and improve the quality of life. Rural development will have to be concerned not only with increases in productivity, but also with improved food supplies and diet for a rapidly growing population, health, and educational services, construction of adequate infrastructure, adequate housing, and employment opportunities. Not only must rural development be concerned about feeding the present population of the world, it must be concerned about the

population of the future. Many estimates have been made as to what the future population is likely to be. Although these estimates have been varied, there is a consensus that by the year 2000 there will be around 6 or 7 billion people inhabiting the world, representing a 50% increase in the present world population. The increase in population means that not only must we feed the present 4 billion people, but by 2000 we must produce enough additional food to feed 2 billion additional people.

For the Less Developed Countries to achieve the increases in agricultural productivity, the green revolution that began in the 50's and 60's with wheat and rice will have to continue and expand in other crops and livestock. New varieties, new breeds, and new technologies will be required. Management practices that accompany the new technologies will have to be introduced. Economic incentives will have to be sufficient to encourage the adoption of the practices.

As the increases in output are attained, other problems will have to be addressed; transportation and storage will have to be attended to; problems in credit prior to and after harvest will have to be solved; price stability for agricultural products will be important; handling and grading of commodities will be necessary; and adequate and accurate market information will have to be disseminated. Even these problems do not exhaust the list. Increases in agricultural productivity will depend heavily upon the willingness of the producers to adopt the new varieties, breeds, and management practices. Therefore, an understanding of the social customs, the organization and decision making process of the rural community will be necessary. Methods and channels of systems that transmit information will need to be improved, and in some cases, developed.

North Carolina A&T State University has attempted to assist in the problems of rural development. The mission of the college, as stated in the initial legislation, was the following:

"That the leading object of the institution shall be to teach practical Agriculture and the Mechanic Arts and such branches of learning as related thereto, not excluding academic and classical instruction."

North Carolina A&T State University was established, therefore, as one of the Sixteen Land Grant Colleges of 1890. It has traditionally had the responsibility of teaching agriculture and other technical educational thrusts and to solve the needs of blacks in the state. By our very nature then, our activities have been directed to problems of the rural poor and limited resource farmers.

Our past experience in both foreign and domestic rural development activities have been rich in priority to the economically, socially, and culturally deprived peoples of our nation and the world. The main thrust of domestic activities has been in our programs of Agricultural Education, Agricultural Extension and the Department of Economics and Agricultural Economics.

## 2. Purpose of Grant

The purpose of this grant is to develop North Carolina A&T's response capability and multidisciplinary capacity to assist LDC's in the areas of Small Farmer Technology and Marketing Analysis for Rural Development. The ultimate goal of this project is to assist LDC's, through AID and other donors, to develop their capacity to analyze problems in their agricultural and rural sectors, thus leading to better program choices for enhancing the quality of life of the rural poor.

As the University develops its capability and strengthens its capacity, its services would be available to contract with AID, other donors, and LDC's for utilization. Services will be provided in the areas of Small Farm Technology, Marketing and Distribution and will focus on project design, implementation, and evaluation. Grant funds would be used to develop the institution's response capability using a multidisciplinary approach involving economics, agricultural economics, rural sociology and, to a lesser extent, anthropology, agricultural and extension education, technical agriculture and related fields as appropriate, to analyze problems in such areas as Small Farmer Technology and Marketing.

There have been no modifications of the grant's purpose since the grant was awarded.

### 3. Objectives of the Grant

#### A. Objectives Restated

In general, grant funds are being used to finance the following objectives:

1. Research. The research program at North Carolina A&T State University is emphasizing problems of the small scale produce and the rural poor in the LDC's. The major areas of focus are small farmer technology, marketing, and distribution. Research is focusing on analysis of traditional technology, methods of disseminating improved technology, and barriers to adoption and diffusion of technology. Some attention will be given to problems in marketing and distribution systems, including marketing channels, storage facilities, transportation, price analysis and information flows. Multidisciplinary research teams and individual would be used in forming research projects.
2. Education and Training. Education and training activities form a major component of the 211(d) Grant. The activities under this grant are divided in four parts: curriculum, student support, faculty development, and seminars. The curriculum portion would center on changes and revisions in present courses and the development of new courses to reflect various aspects of economic and rural development. A major emphasis is on the rural sociology offerings. The grant will support student activities at the graduate and undergraduate level. Graduate students would work

towards a Master of Science degree in Agricultural Economics, and undergraduates would complete a Bachelor of Science degree in Economics, Agricultural Economics, or a related area. Funds for scholarships and assistantships are awarded. Faculty development will be accomplished by training present faculty and hiring new faculty. Present faculty could complete Ph.D. level work or post doctorate. Emphasis for hiring new faculty will be placed on rural sociology and agricultural economics.

Seminars and workshops are a very useful learning tool. A series will be held each year, open to faculty, students and others in the University community. Faculty will also travel to attend workshops, seminars, and other related conferences.

3. Advisory and Consultation. The ultimate goal of this grant is to develop a response capability to assist LDC's in developing their capacity to analyze their problems in agricultural and rural development. To achieve this goal, North Carolina A&T expects to make faculty available for advisory and consultation services to AID/Washington, AID missions, LDC's, and other donor countries and organizations, in such areas as is the focus of this grant.
4. Information Capacity. North Carolina A&T State University recognizes the important role that a good library plays in the development of faculty and students. The University plans to utilize some grant funds towards the expansion of its library in economics and rural development. Funds will be expended to purchase books and to subscribe to journals and periodicals. In addition, funds will be available to publish and disseminate the research results of faculty and graduate students supported by this grant.
5. Linkages and Networks. North Carolina A&T State University planned to establish and expand its domestic and foreign linkages and ties with those institutions which share a common interest in rural development in LDC's. A special effort will be made to develop ties with other minority institutions interested in economic development.

Additional ties will also be sought with other colleges and universities with training programs and with interest in attacking the problems of LDC's.

The University will also attempt to develop linkages with AID/Washington, and other donors. Linkages with the various bureaus would permit maximum utilization of capabilities developed under the grant. It would also permit exposure to similar problems in the various parts of the world.

The development of linkages with LDC's is important to our research component. Such linkages would provide a place for giving experience on research in the developing countries.

## B. Review of Objectives (in terms of output)

1. Research. Faculty members are continuing these research efforts. The income distribution study continues, and several other projects have been completed. Most of these projects have focused on domestic research problems. However, the projects do have international applicability. Future research will focus on overseas work and travel. During the remainder of the grant period, this objective will receive increasing attention. No modifications of this objective are required.
2. Education and Training. Education and training activities continued to receive great emphasis during the year. Additional students were supported under the grant. A new master's degree in Agricultural Economics was approved and implemented, course revisions were made in the curriculum, and several seminars were held. In addition, several faculty members have attended AID seminars, professional meetings and workshops. We have not had faculty to take advantage of funds for study leave. We also feel that \$3,000 for graduate assistantships was too low to attract quality students for our master's program. Therefore, some changes were made. We are now providing \$4,800 for master's assistantships, with the added funds coming from faculty study funds. This change allows North Carolina A&T State University to be more competitive in recruiting top quality graduate students. No further modifications are expected at this time.
3. Advisory and Consultation. The University's response capability will continue to expand as a result of utilization by AID, development agencies, and other donors. Experience gained in research, travel, and training programs provide our faculty with the expertise to assist in solving problems faced by the LDC's. No modification is expected in this objective.
4. Information Capacity. The development of an excellent information system is crucial to improving response capability. Information directly supports research, educational training, advisory, and linkage capability. We have increased our holding of books, journals, and reference materials. Plans are to continue extensive searches for appropriate literature to add to our holdings. No modifications are expected in this objective.
5. Linkages and Networks. The development of linkages are especially important to support overseas research activities. Several linkages are being developed in Africa and appropriate domestic agencies. Linkages with TVA and SECID have resulted in placing students in intern positions during the summer. These efforts will continue. No modifications are expected.

## C. Review of Critical Assumptions

Certain events are beyond the control of the University. It was necessary, therefore, that certain assumptions be made relative to the achievement of stated outputs. These critical assumptions are listed and reviewed below:

1. There exists a pool of professionals, economists, agricultural economists, and/or other social scientists who would consider employment at North Carolina A&T and would pursue teaching and research on problems in the developing countries.
2. Graduate and undergraduate students can be recruited who are interested in studies in international economic development.
3. AID will assist North Carolina A&T in developing linkages with LDC institutions, and in identifying opportunities for utilization of faculty members in advisory consulting activities.
4. Professionals interested in presenting lectures and seminars on topics relevant to the focus of this grant will be available to North Carolina A&T State University.
5. Data are available or can be obtained on critical research problems in the LDC's and problem areas selected.
6. Domestic and international institutions are interested in developing linkages with North Carolina A&T State University.

Review Assumption 1. Previous efforts to recruit positions in the appropriate disciplines have proven to be successful. Many inquiries have been made in response to announcements for vacancies. Qualified faculty have been hired. There does appear to exist an adequate pool of professionals to draw upon in meeting our staff needs.

Review Assumption 2. Many inquiries have been made about our undergraduate and our new graduate program in agricultural economics. Other students have inquired about our international development library and our rural development program. Enrollment increases are expected to continue in our programs.

Review Assumptions 3. The Development Support Bureau of AID has supported our desires to become known with the missions and has kept us informed of conferences, seminars, and meetings. The regional bureaus and desk officers have not been as helpful as the Development Support Bureau, and as envisioned. Although several meetings and conferences have been held with these people, very little utilization has been made of our talents and skills. Only one request for assistance came during the second grant year and that request followed one made during the preceding year. Certainly to obtain international experience, and to conduct research on international problems, much more cooperation of the regional bureaus, desk officers, and the missions will be needed.

Review Assumption 4. We have been successful in inviting experts to present seminars. Other individuals have agreed to present seminars in the future. We do not anticipate any problems in obtaining qualified seminar speakers.

Review Assumption 5. Few problems have been found in obtaining data on the research currently underway. Requests have been honored and persons interviewed in the on-site research were usually very cooperative.

Review Assumption 6. Few difficulties have arisen on developing domestic linkages. SECID, TVA, and others have been supportive of our efforts. On the international side, the Caribbean Development Bank has been cooperative. Problems have arisen in developing other linkages, especially in Tanzania and Botswana.

## V. ACCOMPLISHMENTS

Principle accomplishments during the second year centered on development of domestic linkages, research, information building, and curricula development. Other activities included attendance of seminar, development of a newsletter, and continuation of research in progress.

The research effort lead to a State-of-the-Arts Paper, a report on the Future of Small Farms in North Carolina: Perception of County Extension Chairmen, and continuation of the Income Distribution Study in Tanzania.

### A. Objective/Output: Research

#### 1. Narrative Description of General Output

The research component of the 211(d) Grant focuses upon small farmer technology, marketing and distribution, and the effects upon the rural poor. Research projects provide the faculty of the University increased capability and understanding of the problems in the developing countries. Research will be conducted in the developing countries and at the University. Grant funds will be used to provide funds for salaries and travel costs where on-site research is relevant.

#### 2. Targets for Reporting Year

During the second year, a goal of two research projects were to be implemented. The accumulative goal of four research projects was set for

the first two grant years.

3. Accomplishments  
a. Accumulative

The total number of research projects initiated during the first two years were six, with three receiving some or all support from the 211(d) Grant. Two of the projects were conducted overseas, three others have international focus but were completed domestically, and one was focused on domestic issues.

b. Reporting Year

The reporting year saw the initiation of two projects. These projects are described below:

The first project was the "Impact of Rural Development Interventions on Education and Hence Fertility" by Dr. William D. Lawson (with Drs. William T. Levine and Benjamin Cheng as co-authors). The purpose of this report was to review the present state of knowledge concerning selected rural development interventions and their impact on education and fertility in the LDC's of Africa, Asia, Latin America and the Middle East. The Easterlin Fertility model was used. Demand for children was related to income, prices, and tastes and preferences. The supply of children was dependent on human fecundity and the survival of children. The report found that over the long run, rural development interventions promote higher levels of education among rural population which in turn, depresses fertility rates.

A second project by Drs. Anwar S. Khan and William D. Lawson was "The Future of Small Farms in North Carolina: Perception of County Extension Chairmen." The purpose of this report was to analyze the perceptions of county extension chairman regarding future directions, present problems,

and resource needs of small farms in North Carolina. Questionnaires were mailed to county extension chairmen in all counties in North Carolina. A response rate of 95% was achieved. Correlation was used to relate selected variables with extension chairmen's opinions. Results found that the expected decline in the number of small farms were associated with resource insufficiency, inferior quality resources, and lack of production and marketing information.

During this year, work continued on the "Impact of Economic Growth on Rural Residents in Korea and Tanzania," by Dr. Dong K. Jeong. The primary purpose of this report is to look into the question of who receives benefits of economic growth in Korea and Tanzania since the 1960's and test if Kuznet's hypothesis holds in the growth process of ideologically different economic policies of the two nations. The Kuznet's hypothesis states that there is a natural or inevitable U-shaped relationship between inequality in the distribution of income in a country and its economic growth. That is, the economic growth process is accompanied by an initial period of increasing inequality followed at some point by a tendency toward a more equal distribution of income.

The nature of household income distribution in reference to phenomenal sustained economic growth in Korea is still an unsettled issue as the preliminary study indicates:

1. Some writers conclude that the household income distribution in Korea is the most equalitarian and among the best in the developing countries (Chenery et al., 1974; D. C. Rao, 1978).
2. During the 1960's high growth economic period, no deterioration in inequality income distribution, which would have been expected by Kuznet's U-shaped curve relating the level and the distribution of income, occurred in Korea. Hence, Korea is considered a case of unique experience in this regard (Bertrend Renaud 1976, 1978).

3. Inequality in Income Distribution remained essentially unchanged during 1965-1970 (Choo and Kim, 1978).
4. Korea is not an exceptional country in terms of the level of income distribution, but rather close to a "typical" less developed country in which the Kuznet's hypothesis is sustained (Surjit S. Bhalla, 1979).

In an attempt to solve these apparently conflicting reports, work is centering on a decomposition technique and also the construction of the Paglin's index of inequality which permits income to vary with age of the family head.

- c. Total Expenditures
  - a. Accumulative \$45,816.48
  - b. Reporting Year \$21,757.16

B. Objective/Output: Education and Training

1. Narrative Description of General Output

The University recognizes the need to assist in increasing the number of minorities with expertise in economics and rural development. The program for graduates and undergraduates must be responsive to concerns of the developing countries. The development of our faculty, additions to and changes in our curricula, the support for students and the participation in seminars are central to this objective. These activities will enable faculty and students to become familiar with and develop skills to assist in solving the problems of LDC's.

2. Targets for Reporting Year

During the second year, the targets were as follows:

- (a) revise three (3) courses
- (b) develop two (2) new courses
- (c) recommend a set of courses for students to acquire rural development skills
- (d) support twelve (12) undergraduate students
- (e) support six (6) graduate students
- (f) hire one additional faculty
- (g) hold four (4) seminars

### 3. Accomplishments

#### a. Accumulative

Progress has been made in several areas under education and training. Throughout the grant many students have been supported, courses revised, new courses added, and seminars have been held. In addition, our faculty have actively participated in professional meetings and seminars. The graduate program was approved in May 1979 so that little progress was made in the graduate component. However, twelve (12) inquiries were received and offers of financial support were given to two (2) students for the next year.

#### b. Reporting Year

During the reporting year, one course was revised: Rural Sociology 501, Rural Social Problems, and one course was developed Agricultural Economics 735, Agricultural Economic Development. Because of the failure to get early approval of our Master of Science degree in Agricultural Economics, we felt it better to delay other revisions and additions of new courses. These revisions were primarily for the graduate program, and would be more appropriate after approval of the program.

Several of the courses that were previously revised were offered during this reporting year. Although the classes were small (10-15 students) the response was favorable. The students felt they had a better understanding of international problems and a better appreciation of the role of the United States in rural development.

A set of courses were recommended for students who wished to concentrate in rural development. These courses are as follows: Principles of Economics (micro and macro), Intermediate Economic Theory (macro and micro), Statistics, Economic Development would be required. Electives

would be chosen from International Economics, Introduction to Rural Sociology, Rural Social Problems, Evaluation Methods, and Agricultural Marketing.

Student support continued during the year. During this year seven (7) students were supported under the 211(d) Grant, three (3) on work aid and four (4) on scholarship. Three (3) of the students are seniors, three (3) juniors and one (1) freshman. All of the students are honor students.

There were no graduate students supported this year since the program had not begun. There will be some reported next year.

Dr. Lawson resigned as of August 15, 1979 to accept a position at another institution. As soon as his notice was received, an announcement was prepared to recruit a replacement. Dr. Helena Lupidi was selected as a replacement. A vita is in the appendix.

Several seminars were also held last year. Several were planned under the auspices of the 211(d) Grant. Others were related but not funded by the grant. Attendance was good at the seminars, averaging eighteen (18) people. A complete list is below. Those starred are the ones funded by the 211(d) Grant.

\*"Research Priorities in Rural Development in Less Developed Countries" by Dr. E. Walter Coward, Chairman, Department of Rural Sociology, Cornell University

\*"Foreign Trade: The Impact of Eurodollar on American Dollar" by Mr. Fred Berndt, Vice President, Wachovia International, Winston-Salem, NC

\*"A Firm-Level Study of Korean Exports: Marketing Exports" by Dr. Young Rhee, Senior Research Staff of World Bank, Washington, DC

"Attitudes for Success in Business" by Mr. William Gore, Traffic Analyst at R. J. Reynolds, Winston-Salem, NC

"AgriBusiness Development" by Dr. Wayne G. Broehl, Jr., Benjamin Ames Kimball Professor of the Science of Administration, Dartmouth College, Hanover, NH

"Ridge Regression" by Dr. Hriskikesk D. Vinod, Supervisor, Economics Studies of the American Telephone and Telegraph Company, Piscata, New Jersey

"Unemployment Compensation in North Carolina" by Dr. Barry Bluestone, Director of the Social Welfare Regional Research Institute, Boston College

- c. Total Expenditures
  - a. Accumulative \$64,643.04
  - b. Reporting Year \$35,669.75

C. Objective/Output: Advisory and Consultation

1. Narrative Description of General Output

The University intends to enhance the competences of its faculty by participation in AID conferences, workshops, and to respond to the requests of AID and other agencies for assistance. Services that are provided will be done on a negotiated basis and subject to scheduling considerations.

2. Targets for Reporting Year

The targets for the second reporting year are as follows:

- (a) Participation of three faculty in AID seminars on Program Design and Evaluation
- (b) Attendance by faculty at four professional meetings and/or workshops
- (c) Utilization of North Carolina A&T State University faculty by AID, missions, and other donor agencies.

3. Accomplishments

a. Accumulative

Faculty members have actively participated in professional meetings, attended seminars and workshops, and participated in the AID seminar on Program Design and Evaluation. A total of eight faculty have been through the seminar.

Some utilization has been made. Drs. Evans, Khan, Kidder and Robbins have been involved in such activities by AID and SECID. Other request for assistance have also been honored.

b. Reporting Year

During this reporting year, four additional faculty have attended the AID seminar on Program Design and Evaluation. Drs. Lawson, Kidder, Chen, and Evans participated during the year. In addition to these seminars, six other workshops and conferences were attended. Dr. Jeong presented his paper on "Black-White Income Differentials" at the Western Economics Association meeting in Las Vegas. Summaries of some of the conferences are found in the appendix.

Some utilization of faculty have also been made. Dr. Khan served as a seminar coordinator in December for the CENTO seminar on "Increasing the Productive Capacity of Small Farms." Dr. Khan also worked in the preparation of the seminar.

Dr. Robbins served as a discussion leader for the conference on "Agriculture and Food Production Systems" sponsored by the African-American Scholars Council in Washington. He also assisted in reviewing a proposal from South Carolina State College for Title XII funding.

The number of requests from AID/Washington and the missions were down this year. The failure to serve on a project design team or to work with evaluation teams will affect the success of our grant. We must get AID to utilize the faculty of A&T in forming these teams.

- c. Total Expenditures
- |                      |            |
|----------------------|------------|
| a. Accumulative      | \$7,608.09 |
| b. This Project Year | \$1,529.02 |

D. Objective/Output: Linkages

1. Narrative Description of General Output

The establishment of ties with domestic and international organizations is extremely important to the success of this grant. These ties will assist

in providing necessary research and training experiences needed to aid the developing countries. Such linkages will provide the means whereby on site collection of data can be accomplished, mutual intellectual exchanges can occur, opportunities for student involvement in work study programs, and increased exposure by North Carolina A&T State University.

## 2. Targets for Reporting Year

### a. Accumulative

During the grant, linkages have been established with one mission, USAID/Barbados and informally with the Caribbean Development Bank. On the domestic side, linkages were established with SECID and TVA.

### b. Reporting Year

Several attempts were made to visit and establish linkages with Tanzania, to little avail. The Mission Director visited our campus at which time some discussions were held. He suggested that a proposed trip in March be delayed until the summer. Later discussions with Michael Fuchs-Carsch led to a delay until November. These delays have been typical of all attempts to develop linkages in Tanzania. Nevertheless, we are hopeful that the next year will bring success to our effort in Tanzania.

Dr. McKinley DeShields, Jr. visited our campus in August 1979. Dr. DeShields, a graduate of A&T, desired to establish a linkage between the Schools of Agriculture at A&T and the University of Liberia at Monrovia. We will follow up on developing such a linkage during the next report year.

On the domestic side, our efforts have been much more successful. Through our linkage with SECID, three (3) students were placed in summer intern programs. Through our linkage with TVA, one (1) student was placed in an intern program. We expect expansion of these efforts next year.

### c. Total Expenditure

a. Accumulative	\$2,867.52
b. Report Year	\$ 421.59

E. Objective/Output: Information

1. Narrative Description of General Output

North Carolina A&T State University will increase its library holdings of books, periodicals, journals, and other pertinent literature pertaining to economic development, marketing and small farmer technology. Grant funds will be used to publish and disseminate research findings.

2. Target Reporting Year

- (a) 100 volumes of books to be purchased
- (b) 2 journal subscriptions

3. Accomplishments

a. Reporting Year

Progress continued in the development of our library. Four hundred books have been purchased and two additional journals have been ordered during this year. Further, many pamphlets and reports have been received, without cost, from other institutions.

A newsletter has also been initiated. The purpose is to disseminate information on reports, purchases, and events. We hope to publish quarterly.

- b. Total Expenditures
  - a. Accumulative           \$7,399.52
  - b. Reporting Year         \$3,686.58

VI. IMPACT OF GRANT SUPPORTED ACTIVITIES IN ACHIEVING GRANT PURPOSE

The purpose of our grant was to develop a response capability in the area of small farmer technology, marketing, and distribution. The progress made during the first year of the grant has had a significant impact upon achieving that purpose. Much awareness of the role that institutions such as North Carolina A&T will play in assisting LDC's has been generated. This awareness is evidenced by the numerous requests for information and cooperation with many faculty and students throughout the University. Faculty members from Sociology, the Transportation Institute, and School of Agriculture

have inquired of programs under the grant and where they could possibly participate. Off-campus inquiries about possible projects or serving on contracts have been directed to the grant director for distribution to the University faculty. The grant director also serves on the International Programs Committee of the University.

The participation of faculty in the various seminars, serving on the advisory committee, assisting in the research, and serving on teams as requested by AID demonstrate their support of the program. Further, the revision of course offerings in economics and the University's support of a position in rural sociology, has been very encouraging.

Students have also been involved. Almost 20 inquiries were made by undergraduate students as a result of publicity surrounding the program. Several classes have used reference materials received under the auspices of the grant. These classes include economic development, senior seminar, food distribution, and international economics.

Inquiries have been received from several sources for some assistance. Correspondence was obtained from Dimpex, Washington for participation in a Kenya study for Agricultural Training. Several universities have sought assistance with their Title XII proposals. A Title XII workshop for the Minority Non-Matching Grant was held at A&T in May 1979.

The development of a newsletter will also contribute to the grant purpose. It will serve as a means of disseminating information and expanding awareness of the faculty and students.

## VII. OTHER RESOURCES FOR GRANT RELATED ACTIVITIES

Additional support for grant related activities have come from several

sources. SECID awarded a sub-contract to North Carolina A&T State University for the State-of-the-Arts Paper by Dr. William Lawson. The amount of the contract was \$7,000.

The 211(d) staff participated in writing the Title XII Minority Strengthening Grant proposal. The proposal was accepted and recommended for funding. The amount of the proposal was \$500,000 for a five year period.

The University also contributed in the form of indirect costs. Overhead will not be charged to the grant. The value of overhead is estimated at \$25,433.00. Other funds were made available for salary support for Drs. Lawson and Oldenburg (for teaching the International Economics course).

Other activities during the year which strengthened the University were two projects in Tanzania. Although the 211(d) Grant was not involved in these activities, these activities do strengthen the University's response capability. The Tanzanian Agricultural Manpower Development Project continued in the training of the Bachelor of Science students. The total value of the North Carolina A&T State University budget in 1978-79 was \$206,111.00.

The University has also received a six year contract (in a consortium with West Virginia) for a Tanzanian Farmer Training Project. This project is designed to train paraprofessionals in agriculture. The six year budget is approximately \$4.4 million.

#### VIII. UTILIZATION OF INSTITUTIONAL RESPONSE CAPABILITIES IN DEVELOPMENT PROGRAMS

##### A. Requests for Assistance

The University and its faculty received three (3) requests for

assistance during the reporting year. One was received from AID, one from SECID, and one from the African American Scholars Council (Table 3); all were honored. Dr. Anwar Khan was requested to coordinate the seminar on "Increasing the Productive Capacity of Small Farmers" in the CENTO countries.

Dr. William Lawson was asked to assist in writing a State-of-the-Arts Paper with SECID. This report was completed in May. Dr. Richard Robbins was asked to chair a session in the African American Scholars Council conference on "Agriculture and Food Production Systems."

**B.(a) Number of Foreign Students**

The number of foreign students enrolled in the University during the 1978-79 academic year was 243, representing 36 countries. The names of the country and number of students follows:

Nigeria	69
Iran	55
Bermuda	10
Hong Kong	10
Liberia	9
Qatar	9
Jamaica	8
India	7
Kenya	7
Zimbabwe, Rhodesia	8
Lebanon	6
Sierre Leone	5
Guyana	4
Bahamas	3
Ghana	3
United Kingdom	3
Zambia	3
Abu-Dhabi, U.A.E.	2
Brazil	2
Ethiopia	2
Iraq	2
Palestine	2
Thailand	2
Botswana	1
Cameroon	1

Egypt	1
Guatemala	1
Jordan	1
Kuwait	1
Ondobe - Yeno	1
Saudi Arabia	1
Sri Lanka	1
South Africa	1
Togo	1
Virgin Islands	1
	<u>243</u>

B.(b) The following list of visitors represent some of the visitors on campus requesting information about our foreign programs, desiring to develop linkages, or seeking assistance. Those with an asterisk are ones with which this office had direct discussion or contact.

\*Mr. Sermsak Awakul, Assistant Director of Rice Division  
Department of Agriculture, Bungkok, Thailand (November  
3, 1978)

\*Mr. R. T. Botshogile, Ministry of Agriculture,  
Training Director, Gaborone, Botswana, Southern  
Africa (November 3, 1978)

\*Mr. Bienvenido A. Almirante, Regional Director  
of Agricultural Extension, Philippines (November 3, 1978)

\*Dr. Howard Steverson, Mission, Director, USAID  
Dar es Salaam, Tanzania (February 1979)

Dr. Roger Yeager, Director of International Programs,  
West Virginia State University, (February 1979)

Dr. Robert Maxwell, Assistant Dean, School of Agriculture  
former Chief of Party, Tanzania Manpower Training Program,  
West Virginia State University (February 1979)

\*Trustee Representatives of the Sixteen 1890 and Tuskegee  
Institute--Title XII Workshop (May 1979)

\*Dr. Lillie Glover, School of Home Economics, South  
Carolina State University (June 1979)

\*Dr. Leola Adams, School of Home Economics, South  
Carolina State University (June 1979)

\*Dr. Kailash Mathur, School of Home Economics, South  
Carolina State University (June 1979)

\*Dr. Edward Vickery, Executive Director, SECID, Chapel Hill, North Carolina (May, June 1979)

\*Dr. McKinley DeShields, Jr., Dean, College of Agriculture and Forestry, University of Liberia, Monrovia (August 1979)

B.(c) Use of Teaching Materials Developed Under this Grant

The courses developed under this grant have all be offered. The response has been good. Although the classes were small, there were favorable comments on the classes. The students felt the classes to be stimulating, informative, and useful.

The response to the library has also been excellent. Students from general agriculture, sociology, history and economics as well as agricultural economics and rural sociology utilize the library. Ten to fifteen faculty and students use the library per day.

B.(d) Other Personnel Working on Development Program

Several additional faculty members of the University are working on developmental programs. Certainly the experience gained under the 211(d) Grant will compliment and supplement each other. Dr. William Reed, Director of International Programs, directs the A&T portion of the Tanzania Agricultural Manpower Development Contract. He also directs the Tanzanian Farmer Training Project. Four faculty members served in Tanzania during the 1978-79 year.

Irving A. Russell, Agricultural Economics, MATI/Ukirijuru

Richard C. Gray, Animal Production, MATI/Mpwopwa

Michael Kyer, Agricultural Engineering, MATI/ Ukiriguru

Maurice A. Fennell, Agronomy, MATI/Ukiriguru

Dr. Reed was appointed this year to serve on the International Education and Scientific Council and the Committee of the Association of

United States University Directors of International Agricultural Programs, (AUSUDIAP), to study AID contracts with universities. He served on a BIFAD/SECID Committee to prepare a handbook for writing Minority Institution Title XII University Strengthening Grant Proposals, and the BIFAD Panel for evaluating the Minority Institution Proposals.

Dr. Lewis C. Dowdy, Chancellor, served on the Committee for International Affairs, of the National Association of State Universities and Land-Grant Colleges.

Dr. Burleigh C. Webb, Dean, School of Agriculture, continued to serve on the Joint Research Committee of the Board of International Food and Agriculture (BIFAD). He also continued his service on the International Commission of the National Academy of Service. The purpose of that committee was to develop a report on United States Science and Technology with respect to food, climate, soil, water, for use in the 1979 United Nations Conference on World Food and Agriculture. Dr. Webb serves as a member of the International Trade Center of the University of North Carolina. He also served during the year as a member of the AID Appropriations Committee of the Association of Land Grant and State Universities, the committee on Training for Foreign Students, Foreign Agricultural Service of the United States Department of Agriculture, and the Title XII Representative for North Carolina A&T. Dr. Webb also serves as trustee for the Institution for Nutrition of the Universities of North Carolina. He is also on the Governors Advisory Committee on Agriculture, Forestry, and Seafood Industries.

C. Plans for Utilization of Institution Response Capabilities

It is expected that during the remainder of the life of the grant, AID, LDC's and other agencies will call upon the University to provide

assistance. The University, in cooperation with the AID project monitor has discussed the grant with the Regional Bureaus, selected project officers, and other AID/Washington officials. Copies of faculty vitae have been distributed for possible consideration on visiting teams. Information has been forwarded to many of the missions describing the University, its program, and its faculty. It is expected that these contacts will call upon the University as the need to provide consultation and advisory services arises.

Efforts to disseminate information about our grant through a newsletter may increase the utilization of response capabilities. This media will provide current information on the achievements of faculty and staff in related activities.

#### IX. NEXT YEAR'S PLAN FOR WORK AND ANTICIPATED EXPENDITURES

##### A. Output #1: Research

During the third year of the grant, we will emphasize the development of the research program. We expect the final report of Dr. Jeong's research to be published. Other projects are being planned, both domestic and international. We expect two domestic projects to be completed, and one international project to be implemented and move toward completion by the end of the grant year.

a. Estimated Budget \$55,000.00

##### B. Output #2: Education and Training

We expect to continue and expand the education and training component during the third grant year. It is expected that two new courses will be developed and several courses revised under the grant. We expect to expand our student support, both the undergraduate and graduate components.

The final approval of the Graduate Program in Agricultural Economics will lead to emphasis on the Graduate Program. Students wishing to pursue a Masters of Science degree in Agricultural Economics will be heavily recruited during the year.

The seminar series will expand. We have three (3) confirmations of seminar speakers next year, and three (3) are pending. These seminars will focus on a specific development issue. A workshop will also be planned during the year. Tentatively the workshop will be held in the Spring term.

b. Estimated Budget \$153,000.00

C. Output #3: Advisory and Consultation Services

North Carolina A&T State University will continue to respond to requests for assistance by AID and other organizations. We plan to improve our capabilities through actions taken under the other sections of the grant. We are also exploring the possibility of language training in French. Such training will enable the faculty to respond to requests from countries whose language is French.

c. Estimated Budget \$5,000.00

D. Output #4: Linkages and Networks

Additional linkages will be developed with other domestic and foreign institutions. Such linkages will enable us to place faculty and students in work training programs. These linkages will broaden our base for research and otherwise enhance our capabilities. Attempts will also be made to develop a linkage in Tanzania. This linkage is extremely important in developing research.

d. Estimated Budget \$7,000.00

E. Output #5: Information Capacity

The information capacity is fundamental to the development of our capabilities. Thus, the major emphasis is placed here during the first year will continue. The research reports will be sought in sociology and technology transfer, as well as economic references. New journals will be purchased and more reference materials sought next year.

e. Estimated Budget: \$3,500.00

#### X. INVOLVEMENT OF MINORITY PERSONNEL, WOMEN AND STUDENTS

North Carolina A&T State University has always promoted equal employment and equal educational opportunity for the entire University community. During the fall of 1977-78, approximately 7.5 percent of the student body was white. A substantial number of the faculty members of the University is white also.

This grant also has been multiracial in its operations. The following is a list of the key personnel and their racial identity.

##### Faculty and Staff

Dr. Basil Coley, Black Male, Professor and Chairman, Economics  
 Dr. Sidney H. Evans, Black Male, Professor and Chairman, Agricultural Economics and Rural Sociology  
 Ms. Inett Graves, Black Female, Secretary  
 Dr. Anwar Khan, Pakistani Male, Professor  
 Dr. Alice Kidder, White Female, Professor  
 Dr. Richard Robbins, Black Male, Associate Professor  
 Dr. Robin Henning, White Male, Assistant Professor  
 Dr. Helena Lupidi, White Female, Assistant Professor  
 Dr. David Chen, Chinese Male, Associate Professor

##### Students

Mr. Kevin Barnes, Black Male, Undergraduate  
 Ms. Belinda Daughtry, Black Female, Undergraduate  
 Ms. Stephanie Dawes, Black Female, Undergraduate  
 Mr. Marc Edwards, Black Male, Undergraduate  
 Ms. Angela Hare, Black Female, Undergraduate  
 Mr. Romannus Ngenelgwe, Nigerian, Undergraduate  
 Mr. Tajudeen Oyenyi, Nigerian, Undergraduate  
 Ms. Annie L. Stevenson, Black Female, Undergraduate  
 Ms. Debbie A. Walker, Black Female, Undergraduate

TABLES  
and  
APPENDICES

TABLE 1

## DISTRIBUTION OF 211(D) GRANT FUNDS AND CONTRIBUTIONS FROM OTHER SOURCES OF FUNDING

Reporting Period September 1, 1978 to August 31, 1979

Grant Objectives/Outputs	211(d) Expenditures				1978-79 Non 211(d) Funding		
	Period Under Review	Cumulative Total	Projected Next Year	Projected to end of Grant	Non University	Labor	Overhead
Research	\$ 21,757.16	45,816.48	55,000.00	134,283.52	\$ 7,000.00	(*)	9,332.00
Education and Training	35,669.75	64,643.04	153,000.00	234,156.96		12,000.00	16,100.00
Linkages	421.59 @	2,867.52	7,000.00	5,132.48			
Advisory	1,529.02 @	7,608.09	5,000.00	19,491.91	2,400.00	1,350.00	
Information	3,686.58	7,399.52	3,500.00	5,100.48			
TOTAL	\$ 63,064.10	128,334.65	223,500.00	398,165.35	\$ 9,400.00	13,500.00	25,433.00

\*Labor Cost (University release time not charged)

\*\*Overhead Contribution

@Charges for travel only

TABLE 2-a

211 (d) Expenditure Report  
Actual and Projected Summary  
Under Institutional Grant #AID/ta-G-1453  
Project #931-1302  
Reporting Period September 1, 1978 to August 31, 1979

	Expenditures to Date		Projected Expenditures Year			Total
	Reporting Period	Cumulative Total				
			3	4	5	
Salaries	49,625.50	96,305.44	150,000	175,000	118,194.56	\$539,500.00
Travel	4,592.93	16,927.98	20,000	20,000	12,072.02	69,000.00
Student Support	2,661.95	2,901.95	40,000	40,000	18,598.05	101,500.00
Supplies, Materials, communication*	2,397.14	4,699.76	2,000	2,500	2,300.24	11,500.00
Library	3,292.52	7,005.46	2,000	2,000	1,494.54	12,500.00
Publications	394.06	394.06	1,500	1,000	605.94	3,500.00
Workshops and Seminars <sup>@</sup>	100.00	100.00	8,000	2,400	2,000.00	12,500.00
	63,064.10	128,334.65	223,500	242,900	155,265.35	750,000.00

\*Telephone service through July 3, 1979

@Expenditures made for travel only, included in travel above

TABLE 2-b  
 211(d) Expenditure Report  
 Reporting Year Detail  
 Under Institutional Grant #AID/ta-G-1453  
 Project #931-1302  
 Reporting Period September 1, 1978 to August 31, 1979

Names	Dates	Percent Summer	Percent Academic Year	Total
<b>I. SALARIES</b>				
D. K. Jeong	August 18, 1978 - May 17, 1979	100%	25%	\$ 9,598.13
W. Lawson	September 1 - August 15, 1979	75%	50%	7,269.30
R. Robbins	August 18, 1978 - August 17, 1979	100%	50%	13,679.38
I. A. Graves	September 1 - August 31, 1979	100%	100%	<u>10,466.00</u>
				\$ 41,012.81
Fringe Benefits	21% of Labor Costs			<u>8,612.69</u>
				49,625.50
<b>II. STUDENT SUPPORT</b>				
a. Tajudeen Oyenyi				\$ 44.00
b. Romannus Ngenelgwe				352.00
c. Debbie Walker				621.95
d. Belinda Daughtry				672.00
e. Annie Stevenson				672.00
f. Stephanie Dawes				300.00
	Average			\$443.66

TABLE 2-b (continued)

211(d) Expenditure Report  
 Reporting Year Detail  
 Under Institutional Grant #AIB/ta-G-1453  
 Project #931-1302  
 Reporting Period September 1, 1978 to August 31, 1979

		AMOUNT
III.	CONSULTANT	
	Two (2) Consultants did not charge either transportation nor fee.	
	<u>Guest Lecturers</u>	
	One (1) Honorarium	\$ 100.00
	Transportation included in travel. Others did no charge transportation nor fee.	
IV.	TRAVEL	
	Domestic (31 trips)	\$4,592.93
V.	EQUIPMENT	
	None	
VI.	LIBRARY ACQUISITIONS	
	296 Volumes	\$3,292.52
	Printing & Binding	394.06
VII.	OTHER	
	Communication, supplies, etc.	<u>2,397.14</u>
	TOTAL	\$63,064.10

TABLE 3. REQUESTS FOR ASSISTANCE DURING REPORTING YEAR

Description of Attended Requests	Whom Did You Assist	Who Requested Assistance	Who Funded Assistance	Size of Effort Dollar/Man days	Results
Serve as coordinator of CENTO Conference on "Increasing the Productive Capacity of Small Farms."	CENTO	NE/Tech	CENTO Funds (AID)	\$2400/14 man days	Conference was held in Lahore, Pakistan in December. Speakers included Glenn Johnson, Anwar Khan, Refugio Rochin, David Norman and Roger Fox.
Convene Conference on "Agriculture and Food Production Systems."	African-American Scholars Council	AASC	AASC	\$250/2 mandays	Lead discussion on problems in Sahelian Agriculture - land tenure, vegetable production, cash crops and cooperatives.
Assist in Preparation on State of Arts Paper	SECID	SECID	SECID/A&T	\$8000/54 man days	Paper prepared on Impact of Rural Development on Education and Fertility.
Assist in Preparation of Title XII Proposal	South Carolina State University	South Carolina State University	SECID	\$450/5 man days	Draft of Proposal was prepared.

APPENDIX A  
RURAL DEVELOPMENT PROGRAM  
TRAVEL LOG

<u>Date of Trip</u>	<u>Traveler(s)</u>	<u>Cost</u>	<u>Budget Category</u>	<u>Purpose</u>
09/08/78	R. Robbins	No Charge to A&T	Advisory and Consultation	To participate in USAID sponsored conference to organize State-of-the-Arts Paper for RTI/SECID Rural Development and Fertility Project.
10/11/78	R. Robbins	No Charge to A&T	Education	To attend a Federal Home Loan Savings Seminar, Atlanta, Georgia.
10/27/78	R. Robbins	No Charge to A&T	Consultation and Advisory	A discussion leader for the conference workshop on "Agriculture and Food Production Systems," AASC, Washington
11/14/78	W. Lawson	\$26.40	Research	To conduct library research in connection with 211(d) Rural Development and Fertility Project, Chapel Hill.
11/21/78	W. Lawson	\$26.40	Research	To conduct library research in connection with 211(d) Rural Development and Fertility Project, Chapel Hill.
11/27-12/1/78	S. Evans	\$379.35	Consultation and Advisory	To attend seminar on Design and Evaluation of Programs and Projects in Washington.
12/07/78	W. Lawson	\$23.65	Research	To conduct library research in connection with 211(d) Rural Development and Fertility Project, Chapel Hill.
12/14/78	A. Khan	No Charge to A&T	Consultation and Advisory	To participate in a CENTO seminar on "Increasing the Productivity of Small Farmers."
01/21/79	W. Lawson	\$400.65	Consultation and Advisory	To attend seminar on Design and Evaluation of Programs and Projects in Washington.
02/01-02/79	E. W. Coward	\$201.75	Education	Seminar presentation at A&T on "Research Priorities in Less Developed Countries."

RURAL DEVELOPMENT PROGRAM  
TRAVEL LOG

<u>Date of Trip</u>	<u>Traveler(s)</u>	<u>Cost</u>	<u>Budget Category</u>	<u>Purpose</u>
02/15-17/79	W. Lawson	No Charge to A&T	Research	To review drafts of the State-of-the-Arts Paper for the Rural Development Fertility Project.
02/16/79	R. Robbins	\$81.70	Education	To recruit students for the Rural Development Program in New Bern, NC.
03/15-17/79	W. Lawson	\$222.80	Education	To attend a conference on "International Education for Human Development: Yesterday, Today and Tomorrow", Washington, DC.
04/03-07/79	W. Lawson	\$275.27	Education	To attend the annual meeting of the Southern Sociological Society, Atlanta, Georgia.
04/25-28/79	R. Robbins	\$342.76	Education	To attend the Fourth National Conference on Blacks in Higher Education, Washington, DC.
03/18-23/79	A. Kidder	\$436.14	Advisory	To attend AID/seminar on Project Design and Evaluation, Washington, DC.
05/10-12/79	W. Lawson	\$126.00	Research	To attend conference to develop State-of-the-Arts Paper (SOAP) for USAID of Rural Development and Fertility: Formal/Non-Formal Project.
05/20-25/79	D. Chen	\$312.88	Advisory	To attend AID/seminar on Project Design and Evaluation, Washington, DC.
05/20-22/79	R. Robbins W. Lawson	No Charge to A&T	Education	To attend conference on "A National Conference on Rural Research," Nashville, TN.
06/17-21/79	D. Jeong	\$298.06	Education	To present paper and attend professional meeting of the Western Economic Association, Las Vegas, Nevada.
06/20-22/79	I. Graves	\$246.32	Education	To attend the Secretary to Administrative Assistant workshop sponsored by Clemson University, Rock Hill, South Carolina.

RURAL DEVELOPMENT PROGRAM  
TRAVEL LOG

<u>Date of Trip</u>	<u>Traveler(s)</u>	<u>Cost</u>	<u>Budget Category</u>	<u>Purpose</u>
05/14-15/79	D. Walker	\$81.14	Linkage	To meet with Dr. Ed Vickery, SECID for possible summer employment.
05/14-15/79	A. Stevenson	\$30.45	Linkage	To meet with Dr. Ed Vickery, SECID for possible summer employment.
06/04/79	W. Lawson	No Charge to A&T	Research	To meet with members of the Rural Development and Fertility Project, Washington, DC.
07/01-03/79	R. Robbins	\$282.85	Linkages	To meet with project monitor to discuss future linkages, Washington, DC.
07/09-11/79	R. Robbins	\$ 69.25	Education	To attend the workshop on International Role of Predominantly Black Institutions in Development, Baton Rouge, LA.
08/01-03/79	D. Jeong	\$301.71	Research	To collect data for research project World Bank, Washington, DC
08/07/79	H. Lupidi	\$174.75	Education	Interviewed for Rural Development Sociology position at A&T.
08/08/79	S. Sisaye	\$222.25	Education	Interviewed for Rural Sociology position at A&T.
08/29/79	R. Robbins	\$ 27.15	Linkage	To discuss possible linkage with NEPAL project, Chapel Hill, North Carolina.
08/01/79	R. Robbins	No Charge to A&T	Education	Attend AAEA meeting, Pullman, Washington.

## APPENDIX B

## RURAL DEVELOPMENT ADVISORY COMMITTEE

1. Dr. A. P. Bell, Chairman, Agricultural Education Department
2. Dr. Basil Coley, Chairman, Economics Department
3. Dr. Arthur Coutu, Economics and Business Department  
North Carolina State University
4. Dr. Sidney H. Evans, Chairman, Agricultural Economics and Rural  
Sociology Department
5. Dr. Willie T. Ellis, Assistant Vice Chancellor for Academic Affairs
6. Dr. Daniel Godfrey, Director, Agricultural Extension Service
7. Dr. Benjamin W. Harris, Chairman, Adult Education and Community  
Service
8. Dr. Frances Logan, Chairperson, Sociology and Social Service  
Department
9. Dr. William E. Reed, Associate Dean for Research and Special Projects
10. Dr. Howard Robinson, Director, Research Administration
11. Dr. Leonard Robinson, Vice Chancellor for Academic Affairs  
North Carolina Central University
12. Dr. Burleigh C. Webb, Dean, School of Agriculture

MEMBERS OF THE INTERNATIONAL PROGRAM COMMITTEE  
AND SUBCOMMITTEE ASSIGNMENTS

International Programs Committee

Dr. Dorothy Prince-Barnett	Dr. Theodore Partrick
Dr. Amar Datta	Dr. William E. Reed, Chairman
Dr. Williw T. Ellis	Dr. Richard Robbins
Dr. Sidney Evans	Dr. Howard F. Robinson
Lt. Col. Monroe J. Fuller	Dr. Ethel Taylor
Dr. Daniel Godfrey	Dr. B. C. Webb
Mrs. Anne Graves	Dr. Frank H. White
Dr. B. W. Harris	Mr. Leo Williams
Lt. Col. John Jones	Mrs. Naomi W. Wynn
Dr. Dorothy Mason	Dr. Tommie Young
Dr. Harold Mazyck	Dr. G. F. Rankin, Ex-officio
Mr. Richard E. Moore	

International Education and Research

Tommie Young, Director of Instructional Services  
Willie T. Ellis, Assistant Vice Chancellor for Academic Affairs  
Dorothy Prince-Barnett, Head, Department of Secondary Education and Curriculum  
Howard F. Robinson, Director of Research Administration  
Frank H. White, Dean, School of Arts and Sciences  
Ethel Taylor, English Department  
Harold Mazyck, Home Economics Department

Student and Faculty Intercultural Activities

Anne C. Graves, Associate Professor of Education--Chairperson  
Amar Datta, Professor of Mechanical Engineering  
Lt. Col. John Jones, Head, Army ROTC  
Dorothy Mason, Professor of Geography  
Theodore Partrick, Professor of History

Public Relations and Extramural

Richard Moore, Director of Information -- Chairman  
B. W. Harris, Director of Continuing Education Center  
Lt. Col. Monroe J. Fuller, Head, Air Force ROTC

Foreign Assistance, Faculty and Student Exchanges

B. C. Webb, Dean, School of Agriculture-- Chairman  
Sidney Evans, Head, Department of Agricultural Economics and Rural Sociology  
Daniel Godfrey, Head, Agricultural Extension Service  
Richard Robbins, Associate Professor of Economics and Director of 211(d)  
(AID) Program  
Leo Williams, Professor of Electrical Engineering  
Naomi Wynn, Dean, School of Nursing

NORTH CAROLINA A&T STATE UNIVERSITY  
Greensboro 27411

Rural Sociology 501  
Rural Social Problems

Dr. William D. Lawson, Instructor  
Spring Semester 1979

COURSE OUTLINE

Instructor

My office is located in Room 165 Carver Hall. My office hours (for conferences with students) are: 10-12 Tuesdays and 1-2 Thursdays. Please note that these are times set aside for meeting with you. If these times are not convenient for you, see me after class or call me at 379-7715 and we will arrange a time to meet.

Course Description

A sociological analysis of social problems related to education, health, housing, employment, poverty, natural resource development, and service delivery systems in rural society.

Course Objectives

1. To help students acquire an understanding of the major sociological approaches to the study of social problems.
2. To help students acquire an understanding of social problems in rural society and their impact on the well-being of rural residents.
3. To help students acquire an understanding of the factors which tend to create and perpetuate rural social problems.
4. To help students acquire an understanding of rural social problems in the context of issues and trends in the larger society in which they exist.

Required Textbook

Horton, Paul B. and Gerald R. Leslie. The Sociology of Social Problems, Englewood Cliffs, NJ: Prentice-Hall, Inc., 1978

Exams and Quizzes

There will be two formally planned and announced examinations, one at mid-term and the other at the end of the semester (final exam). You can expect two quizzes, one before mid-term and the other before the final examination. The decision to announce these quizzes will depend upon evidence that the assigned reading materials are being read faithfully.

Assignments

1. Each student will be required to prepare a paper on the nature and consequences of a social problem in rural society.

2. Each student will be required to present an oral presentation of his/her paper and lead a discussion on the social problem examined in the paper.
3. Each student will be required to write a brief synopsis of the rural social problem examined by fellow students and presented in class.

\*Due dates for these assignments will be set forth one week after the beginning of the course.

### Grades and Grading

Grades will be based on (a) two examinations (b) two quizzes (c) social problem paper (d) oral presentation of paper (e) synopsis paper on rural social problems and (f) class participation. The weight that will be given to the grading criteria are:

Final Examination	25%
Mid-Term Examination	20%
Quizzes	20%
Research Paper	10%
Oral Presentation	10%
Synopsis Paper	5%
Class Participation	10%

### Class Format

The format of the course will be lecture/discussion. Students are encouraged to raise questions and participate in class discussion.

### Attendance

Regular and punctual class attendance is expected of each student. Absence from class does not relieve the student of the responsibility for the material covered in the class.

LECTURE/DISCUSSION TOPICS AND READING ASSIGNMENTS

(T-Th class meetings)

Day	1-2	Rural Sociology and Rural Society Sanders (1977:1-9) Rogers and Burdge (1972:16-24)
	3	The Meaning of a Social Problem Chapter 1 - Textbook
	4	Sociological Approaches to the Study of Social Problems Chapter 2 - Textbook
	5	A View of Rural Social Problems from the Perspective of Professional Practitioners in the North Carolina Agricultural Extension Service
	6-7	Report on Rural Social Problems Research Paper Topic - Rationale for Selecting Topic
	8-9	Vested Interest and Pressure Groups: What can they tell us about social problems in general and social problems in rural society in particular? Chapter 4 - Textbook Sanders (1977: 120-131) Rogers and Burdge (1977:120-131)
	10-11	The Family and Social Problems Chapter 7 - Textbook (pp. 190-212) Copp (ed., 1964: 159-190)
	12	The Church and Social Problems Chapter 8 - Textbook (pp. 230-241)
	13	The Problems Associated with Demographic Transition Chapter 9 - Textbook Brinkman (ed., 1974: 33-50)
	14	The Problem of Education Chapter 10 - Textbook Sanders (1977: 96-102)
	15-18	The Problem of Employment and Changing Occupational Roles Rodefeld et.al.(eds., 1978: 15-19; 247-250) Rogers and Burdge (1972:127-133; 153-156) Tweeten and Brinkman (1976: 88-102)
		Mid-term Examination
	19	The Problem of Health and Medical Care Chapter 17 - Textbook Brinkman (ed., 1974: 68-71) Handout
	20-22	Poverty and Rural Disadvantaged Groups Chapter 11 - Textbook Coppedge and Davis (eds., 1977: 11-81)

- 23-24 Environmental - Natural Resource Problems  
Chapter 19 - Textbook  
Handout
- 25-29 Paper Presentations
- 30-33 Alternative Responses to Rural Community Problems  
Whiting (ed., 1974: 28-108)
- 34-35 Retrospect and Prospect

## Agricultural Economics 735

Economic Development

The objective of this course is to develop an understanding of the theories and principles of economic development and of their application to less developed countries. Emphasis will be given to the role of agriculture in the development process. Several African countries will be studied as examples.

Instructor: Robin G. Henning  
Office: 165 Carver Hall

Text: Hagen, E.E. The Economics of Development. Rev. ed. 1975

References: (Partial list at end of syllabus)

Course Syllabus and Study Guide

- I. Development and Underdevelopment
  - Hagen: Ch 1
  - Higgins: Ch 1
  - Ward: Ch 1,2
  - A. The development issue
  - B. Indicators of development
    - Per capita income, level of living
  - C. Characteristics of "developed" vs. "underdeveloped" countries
    - Agriculture and industrial sectors; use of capital; productivity per man-hour; labor force; employment & unemployment; education, technology
  
- II. The Process of Development
  - Hagen: Ch 4-7
  - Higgins: Ch 3-8
  - Agarwala: Ch 2,3 pp. 381-399
  - Hagen: Ch 7,8
  - Mellor: Ch 21
  - A. Theories of Development: Vicious circles, "Big Push"; Classical growth model; Neo-Marxist; Harrod-Domar; Innovation; entrepreneurs; Rostow's growth stages.
  - B. Anatomy of growth
    - Multi-sector economy
    - Inputs required for growth
    - Preconditions, "takeoff", sustained growth
  - C. Strategy for Development
  
- III. The Role of Agriculture in Development
  - Hagen: Ch 6
  - Mellor: Ch 2
  - Reynolds: Ch 1
  - Kindleberger: Ch 10
  - Hagen: Ch 10
  - Mellor: Ch 3,5 6,12
  - Reynolds: Ch 8
  - Reynolds: Ch 7,8
  - Higgins: Ch 9
  - Agarwala: Ch 5
  - A. Agriculture and the Economic Transformation
    - Shift from traditional to modern economy, productivity, technology, infrastructure, social factors.
    - Demands on the Agricultural sector: production, marketing, transportation, etc.
    - Rural-urban shift: population, employment, services, politics, etc.
  - B. Agricultural Production
    - Food supplies, nutrition, population growth
    - Export, import substitution, foreign exchange
  - C. Agriculture and Capital Formation
    - Sources of capital for development
    - Sources of increased agricultural output
  - D. Generation and diffusion of New Technology
    - Innovation, invention, research
    - New products, outlets, input forms
    - Introduction, transfer, diffusion
  - E. Employment and Labor Mobility
    - Rural, urban employment trends, opportunities

IV. Country Studies in Development

- A. Ethiopia
- B. Sierre Leone
- C. Ghana
- D. Zaire
- E. Zambia

V. Balanced Growth

Higgins: Ch 15  
Agarwala: Ch 4  
Kindleberger: Ch 12

References for supplemental reading:

Higgins, Benjamin, Economic Development. Revised ed. 1968

Agarwala, A.N., and S. P. Singh, eds. The Economics of Underdevelopment. 1958.

Kindleberger, Charles P., Economic Development. 2nd ed. 1965.

Mellor, John, The Economics of Agricultural Development. 1966.

Reynolds, Lloyd G., Agriculture in Development Theory. 1975.

Ward, Barbara, The Rich Nations and the Poor Nations. 1962.

## APPENDIX E

## VITA

ROBIN G. HENNING  
 Route 2, Box 188  
 Greensboro, NC 27405  
 (919) 643-5494

## ECONOMIST-CONSULTANT (Emphasis on agribusiness)

. . . Ph.D (Cornell '67) with broad practical experience in developing and implementing industry policies and programs for agricultural products in the U.S. and in developing countries, and in advising and assisting producers, marketers, and policy makers in developing and implementing solutions to problems.

. . .Accustomed to developing good personal relations essential for obtaining reliable information from varied sources; the development and presentation of pertinent data for clear communication; and writing analytical reports, policy papers, and program documents.

. . .Extensive experience in developing and implementing industry and sector-wide programs/projects, both in the U.S. and in developing countries, with emphasis on agricultural marketing, price policy, and management of individual firms, principally farm and agri-business.

. . .Have advised and participated in formulating program and policy decisions, with industry and sector-wide scope, as well as for individual enterprises.

Conducted supporting analyses of quantity-price relationships, competitive factors, and marketing practices for potential markets - domestic and foreign; analyses of efficiency and returns to inputs for marketing and farm business enterprises...Experienced with EDP, linear programming, and other statistical and analytical techniques; in locating pertinent information needed for problem-solving, and in developing and maintaining reliable information sources for current situation reports and continuing industry/sector analysis.

Academic work and job experience includes emphasis on management of individual firms and the impact of government regulation on business organization and operation ... Background includes practical experience on a dairy-general family farm.

## EMPLOYMENT HISTORY

Agricultural Economics/Marketing Consultant (USAID/USDA) to Ministry of Agriculture & Produce Marketing Corporation, of the country of Lesotho, Southern Africa, 1978 ... USAID/USDA/PASA Team Leader and Farm Management Advisor to Ministry of Agriculture of Paraguay, 1975-77 .....Marketing Advisor (USAID/USDA) to Ministry of Agriculture of Paraguay, 1973-75 ... Marketing Specialist, Fruit and Vegetable Division, Agricultural Marketing Service, US Department of Agriculture, Washington, DC, 1971-73 ... Special assignment as Marketing Specialist and Leader of interdisciplinary team for study of the economic impact of the Mediterranean fruit fly in Central America (USAID/USDA), November 1971-May 1972. . . Agricultural Economics

Advisor (Marketing) in Planning Office of Ministry of Agriculture of Colombia (USAID/USDA), 1968-71 ... Agricultural Economist (Marketing programs), 1967-68; Marketing Specialist (Programs) 1962-67, and 1957-60; and Fruit and Vegetable Market News Reporter 1954-56; all with Fruit and Vegetable Division, A.M.S., U.S.D.A. . . . Graduate Assistant, Department of Agricultural Economics, Cornell University 1960-62 . . . Graduate Assistant, Department of Agricultural Economics, Ohio State University, 1953-54 . . . Graduate Assistant, Department of Botany & Plant Pathology, Ohio Agricultural Experiment Station & Ohio State University, 1952 . . . . Miscellaneous odd jobs during college years 1947-51.

## EDUCATION

Louisville (Ohio) High School, Graduated 1944 . . . . Kent State University, 1947-49 (no degree) . . . . Ohio State University 1949-51, B.S. 1951 (Principal subjects: Agricultural Economics, Economics, and Business Administration, Biological Sciences, Vocational Agricultural Education) . . . . Ohio State University 1952-54, M.S. 1954 (Major in Agricultural Economics and Marketing. Also graduate study in Botany and Plant Pathology) . . . . Cornell University, 1960-62, Ph.D 1967 (Agricultural Policy and Economic Development, and Government Control of Business.)

## OTHER TRAINING

Roosevelt Aviation School 1945-46; Aircraft and Engine Mechanic License no. 488845 (F.A.A. certification).

## FOREIGN EXPERIENCE

Travelled in England, France, West Germany, South Africa, Lesotho, Central America, Panama, Ecuador, Argentina, Brazil, Uruguay, Paraguay.. Lived in Bogota, Colombia 1968-71; Asuncion, Paraguay 1973-77 . . . . Fluent in Spanish, working knowledge of French.

## PROFESSIONAL RECOGNITION

Member: American Agricultural Economics Association  
Gamma Sigma Delta Agricultural Honorary  
American Men and Women of Science

## PERSONAL

Male, 6 ft., 1 inch; 175 pounds; no health problems . . . . born 1926, Ohio; married Annis Hittinger (Massachusetts), 1953. Children born 1955, 1957, 1965.

## PUBLICATIONS

Robin G. Henning  
"Retail Merchandising of Greenhouse and Repacked Tomatoes" (Unpublished M.S. Thesis) Ohio State University, 1954.

Robin G. Henning

"Some Preliminary Results - Retail Tomato Survey." (Mimeograph based on unpublished thesis, Dept. Agric. Econ. & Rural Soc., Ohio State University, 1954.

Robin G. Henning and L.J. Alexander

"Evidence of Existence of Physiologic Races of *Alternaria Solani*." Phytopathology 42(9), 1952 (Abstract). Complete article published in Plant Disease Reporter, March, 1959.

Robin G. Henning

"California Grapes - An Economic Allocation Problem." Ph.D. Thesis (unpublished) Cornell University, 1967.

Robin G. Henning

"Propuesta de una Politica de Precios Agricolas para Colombia." Instituto de Mercadeo Agropecuario, Oficina de Planeacion, Bogota, Colombia, October 1971.

Robin G. Henning

"Ganado y Carne, Colombia: Analisis de la Produccion y Prospectos para Exportacion." Documento 056 MIN AGR - OPSA/USDA/PASA. Ministerio de Agricultura, Bogota, Colombia, July 1971.

Robin G. Henning

"Arroz - Produccion, Superficie, Rendimiento, Precios, y Exportacion." USDA/PASA, Oficina de Planeamiento, Ministerio de Agricultura, 1971 (Unpublished)

Robin G. Henning, J.G. Shaw, J.D. Kirkpatrick, and Philip S. Parsons  
"Economic Survey of the Mediterranean Fruit Fly in Central America." Field Report 21 ERS, USDA/USAID. July, 1972.

Robin G. Henning

"Marketing of Paraguayan Pineapple." Report of TDY to USAID/Paraguay. 1972.

Robin G. Henning and Miguel A. Lopez

"Comercializacion de la Pina en el Paraguay." (Pending publication by the Ministry of Agriculture, Paraguay).

Robin G. Henning

"Produccion y Comercializacion de Pomelos y Otras Frutas en el Paraguay." Report of TDY to USAID/Paraguay, 1973.

Robin G. Henning (among several authors)

"Primera Reunion Tecnica Sobre Informacion de Precios." Publicacion No.5, Direccion de Comercializacion y Economia Agropecuaria, Ministerio de Agricultura y Ganaderia. Asuncion, Paraguay, 1975.

## VITA

HELENA R. LUPIDI, Ph.D.

Department of Agricultural Economics  
and Rural Sociology  
North Carolina A&T State University  
312 N. Dudley Street  
Greensboro, North Carolina 27411  
(919) 379-7715

Route 2, Premrose #7  
Chapel Hill, North Carolina  
27514  
(919) 929-4666

## OBJECTIVE

To obtain a teaching and/or research position at a college or university. Major interests include: rural sociology, sociology, family, social organization, research methodology, community development, and health and illness behavior. Minor interests include: social psychology, sociological theory (classical and contemporary), stratification, migration, and women's studies.

## EDUCATION

Ph.D. in Rural Sociology from The Ohio State University in June, 1979.

Dissertation: "Rural Health and Illness Behavior: A Comparative Study of Rural Appalachian and Rural Non-Appalachian Residents in Ohio."

Dissertation Advisor: Dr. G. Howard Phillips

M.S. in Rural Sociology from The Ohio State University in June, 1976.

Thesis: "Analysis of the Factors Associated with Career Aspirations of Fifth and Ninth Grade Brazilian Students."

Thesis Advisor: Dr. Ted L. Napier

B.A. in Sociology from The Ohio State University in June 1973.  
Minored in Women's Studies.

## Honors

\*Recipient of a University Fellowship from The Ohio State University: Rural Sociology, 1977-78; Sociology, 1973-75.

\*Recipient of Scholarship from Business and Professional Women's Foundation.

\*Participant in The Ohio State University Undergraduate Honors Program.

## RESEARCH EXPERIENCE

September 1, 1978 - June 8, 1979

Research Associate for the Department of Rural Sociology at The Ohio State University: Working on project, Rural Health and Safety, responsibilities included: analysis of statistical analytical procedures, computer programming, literature review and writing-up preliminary findings.

October 1, 1976 - June 1, 1977

Research Associate for the Department of Rural Sociology at The Ohio State University. Working on project, GROW (Generating Rural Ohio Wealth), duties included: telephone and field interviewing, assembling and mailing attitude questionnaires, coding results for computer analysis, regular contact with computer programming, card punching, and the use of other computer auxiliary machines.

January 1, 1975 - August 30, 1976

Research Assistant for the Department of Rural Sociology at The Ohio State University. Responsible for library research that involved reviewing sociological journals; abstracting relevant articles for use in courses, preparation of lecture notes for the courses as well as building bibliographies, and similar tasks.

## TEACHING AND LECTURING EXPERIENCE

1973 -1977

Guest Lecturer for courses in the Department of Sociology, Social Work, and Rural Sociology. Lectures covered the culture of Appalachia, the family, women's studies, and other topics within sociology.

September, 1975 - December, 1975

Graduate Teaching Assistant for the Department of Sociology of The Ohio State University. Responsible for: preparing and presenting lectures, conducting weekly discussion sessions with students, counseling students on their academic work, composing examination questions, and grading exams, quizzes, and papers.

## COMMITTEE EXPERIENCE

- \* Agricultural Economics and Rural Sociology Graduate Club, 1975-79.
- \* Elected: Representative of the Alumni Committee of the Agricultural Economics and Rural Sociology Graduate Club, 1977-78.

- \* Graduate Student Representative to the Graduate Student Council, Department of Sociology, 1974-75.
- \* Undergraduate Student Representative for Sociology and Social Sciences, 1972-73.

Benefits gained from these interactions include: a developing awareness of the complex issues and problems currently facing higher education; experience in communicating with key policy makers in the University system; the opportunity to participate in making policy decisions.

#### AFFILIATIONS

- \* Rural Sociological Society
- \* American Sociological Society

#### PUBLICATIONS

Pending

#### TRAVEL EXPERIENCE

Visited Columbia, Peru, Mexico, and most parts of the United States. Languages include Portuguese and some proficiency in Spanish. Enjoy observing and participating in different cultures, and hope to incorporate similar experiences in future work.

#### PERSONAL DATA

Date of Birth: November 29, 1938  
Place of Birth: Louisville, Kentucky  
Marital Status: Single

#### REFERENCES

Dr. G. Howard Phillips  
The Ohio State University  
Department of Agricultural Economics  
and Rural Sociology  
2120 Fyffe Road  
Columbus, Ohio 43210

Dr. Alfred C. Clarke  
The Ohio State University  
Department of Sociology  
1775 College Road  
Columbus, Ohio 43210

Dr. Ted L. Napier  
Department of Agricultural Economics  
and Rural Sociology  
2120 Fyffe Road  
Columbus, Ohio 43210

Dr. William L. Flinn  
Associate Chairperson  
Department of Agricultural Economics  
and Rural Sociology  
2120 Fyffe Road  
Columbus, Ohio 43210