

AGENCY FOR INTERNATIONAL DEVELOPMENT
WASHINGTON, D. C. 20523
BIBLIOGRAPHIC INPUT SHEET

FOR AID USE ONLY

Batch # 31

1. SUBJECT CLASSIFICATION	A. PRIMARY Serials	Y-AE10-0000-G635
	B. SECONDARY Agriculture--Agricultural economics--India	

2. TITLE AND SUBTITLE
Agricultural economic issues in India; annual report, 1969/1970

3. AUTHOR(S)
(101) Tenn. Univ. Dept. of Agr. Economics and Rural Sociology

4. DOCUMENT DATE 1970	5. NUMBER OF PAGES 16p.	6. ARC NUMBER ARC 338.1.T297
--------------------------	----------------------------	---------------------------------

7. REFERENCE ORGANIZATION NAME AND ADDRESS
Tenn.

8. SUPPLEMENTARY NOTES (Sponsoring Organization, Publishers, Availability)
(Activity summary)

9. ABSTRACT

10. CONTROL NUMBER PN-AAB-839	11. PRICE OF DOCUMENT
12. DESCRIPTORS Economic development India	13. PROJECT NUMBER
	14. CONTRACT NUMBER CSD-1927 211(d)
	15. TYPE OF DOCUMENT

CSD-1927 211(N)
PN-AAA-839
338.1.T297

UNIVERSITY OF TENNESSEE

COLLEGE OF AGRICULTURE

DEPARTMENT OF AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

June 30, 1969 to July 1, 1970

SECOND ANNUAL TECHNICAL REPORT
July 1, 1969 - June 30, 1970

AID/Section 211(d) Institutional Grant
University of Tennessee
AGRICULTURAL ECONOMIC ISSUES IN INDIA

Summary

This year the Tennessee/211(d) focus was on catalyzation of campus-side action--(a) addition of a graduate major and two new courses related to agricultural development; (b) more interaction among agricultural faculty and students with interests in India and other developing countries through informal workshops, debriefing sessions, and a new International Agriculture Seminar series; (c) accelerated effort to help undergraduates in agriculture to become acquainted with international development problems and career opportunities; and (d) arranging graduate study programs and financing help for additional students with career interests in the economics of agricultural development. Beside strong involvement in these activities, the 211(d) professor taught four courses and was advisor to several graduate students.

The first 211(d) Fellow completed an M.S. thesis related to agricultural credit in Mysore State and is planning to go there by October 1970 for Ph.D. dissertation research. In September 1970 three new students are slated to begin graduate work in agricultural economics under 211(d) fellowships, and a fourth student with Ph.D. studies already in progress will probably be shifted to 211(d). Two other Americans with strong international development interests expect to continue under Department funding and one will begin graduate study under an NSF fellowship. All of the latter seven have had previous experience abroad with the Peace Corps.

Though no one went to India this year under 211(d) auspices, faculty and students in the Department have tried to keep in touch with its problems and progress through returning Tennessee/AID contract team members and short-term consultants, AID Participants and other visitors from South India, correspondence, and library acquisitions. There has been some direct contact by the Department through one of its faculty members, Dr. M.B. Badenhop, who has been on two short-term assignments with the contract team in the summers of 1969 and 1970.

The 211(d) Professor's work in 1970-71 will include a trip to India to help the first 211(d) Fellow with his research and to explore other problems areas, assistance to the new 211(d) Fellows and other graduate students in planning course programs and thesis research, teaching and improvement of the two new courses, a start on writing educational materials stemming from these two courses and the India work, and reinforcement of efforts to generate more interaction among faculty and students with international concerns and experience.

Overall Progress Toward Grant Objectives

This 211(d) grant was made to help the University of Tennessee accelerate its efforts to strengthen competency to deal with the economics of agricultural development in India and other countries, and to establish this area of specialization as a legitimate and continuing function of the University. Attention was directed especially to graduate instruction and research in the Department of Agricultural Economics and Rural Sociology. The 211(d) funding has enabled the Department to add an International Professor (Dr. David W. Brown), several graduate study fellowships for students who want to follow international service careers, opportunities for these students to gain field research experience in India, and other activities which would not be possible for the University to undertake through its own resources. Anticipated outgrowths of this effort are: increased capability in agricultural economics and related fields to reinforce the University's assistance work in India and other developing nations; greater awareness among students and faculty of the problems of international agricultural development and commerce; increased interest among college students in preparing for international service careers with public or private entities; better opportunities at the University to prepare for such careers through the study of agricultural economics; and an increased pool of young agricultural economists who are qualified to work with development programs in India and other nations.

Emphasis during the first year (1968-69) was on establishment of informal contacts in India, identification of problems in South India that agricultural economists will need to tackle, review of teaching and research programs at the University, and jelling of ideas with colleagues and administrators about improvements in international agriculture activities that could be catalyzed with 211(d) help.

The second year has stressed implementation of campus-side improvements (curricula, stimulation of greater interest and interaction among students and faculty); selection of appropriate students for 211(d) fellowships; the intensified counseling of American and foreign students with interest in the economics of agricultural development. Emphasis has been on meshing such activities in with other concerns of the College of Agriculture and the University-wide international dimension, rather than walling off 211(d) work as an isolated program.

Now that a good start has been made on setting the campus-side stage, the 211(d) Professor during the remaining three years will concentrate more on the subject matter itself--improving course content, preparing students for specific lines of research that link together and to Tennessee/AID needs in South India, working with the students on this research, and developing educational materials in collaboration with Indians. Attention will also be given to effective placement of 211(d) Fellows who complete their graduate studies, and location of funding sources to enable future students with career international interests to undertake similar programs of study and overseas research.

Specific Accomplishments During 1969-70

1. Teaching Curricula Improvements

A new Ph.D. concentration in the Economics of Agricultural Development, as well as a graduate minor in Rural Sociology, was proposed this year and by Spring 1970 had received all the needed approvals. This provides more flexibility in meeting the needs of students with development interests, including those majoring in other departments.

At the same time two new courses of special relevance to development students were approved:

Ag. Econ. 4250, Agricultural and Rural Program Planning. (This is aimed at agricultural students who will be involved with extension, research and action programs at operational levels. Will include informal sessions with persons who have been administrators and advisors with such programs.)

Ag. Econ. 6210, Agricultural and Rural Transformation Problems. (This seeks to help advanced graduate students in agricultural economics bring their theory and analytical tools to bear on real problems, using a workshop approach.)

These courses are being taught for the first time by the 211(d) Professor during the Summer 1970 term.

During the year the 211(d) Professor taught a graduate seminar in agricultural policies. He also coordinated the biennial honors seminar course in which 23 of the top agricultural juniors and seniors participated by invitation. Problems of international agricultural development, assistance and commerce received considerable attention in both courses.

Efforts by the 211(d) Professor to pass along materials on international development topics to other faculty in agricultural economics and related fields have continued. A spirit of mutual interchange has evolved among several professors, and a number of "non-international" courses are known to have important components which deal explicitly with world agriculture.

In Fall 1969 under a special 211(d) "workshop" arrangement, an agricultural economics graduate student (Glenn Ames) prepared a 30-page compilation of recent facts and figures related to international agriculture, world food, and foreign aid. It was reproduced and distributed to various persons on campus for use as a ready source in connection with teaching, extension talks, and other needs.

2. Graduate Students and Research Work

Among the 45 graduate students in the Department this year, 10 were from developing countries under AID, FAO, A/D/C, and other auspices. In addition, three American students were returned Peace Corps Volunteers. These students have added much to the breadth and richness of background represented in the Department. In working with these and other students with international interests, there has been close interaction between Dr. Brown and Dr. Badenhop (who has more than six years' experience in India), and the general practice is for either or both to serve on their advisory committees. Dr. Brown has served as major advisor for seven graduate students this past year.

Parker Cashdollar, the first 211(d) Fellow, completed M.S. degree requirements in January 1970. His thesis was "Some Considerations in

Design of Agricultural Credit Programs in Mysore State, India." This study, though conducted in Knoxville on the basis of secondary information, served as a means of acquainting him with Indian agriculture and suggests a framework for further analysis along this line in Mysore. Mr. Cashdollar has recently passed his Ph.D. prelims, and is planning to be in India from four to six months, starting around September, to do dissertation field research. Arrangements are being made for him to cooperate with agricultural economists and a group of Indian M.S. students at Mysore University of Agricultural Sciences. This group, led by Professor R. Ramanna and A/D/C Visiting Professor Donald Taylor, is currently undertaking a multi-faceted study of agricultural change in the Tungabhadra irrigation program area. Mr. Cashdollar will probably focus on analysis of farm adjustment potentials in one or more areas within the region and their implications for future credit and input supply systems.

By June 1970, 211(d) fellowships had been offered to and accepted by three students who plan to begin graduate work in September. All will have completed Peace Corps assignments abroad--George Smith, Ecuador and Bolivia; Robert Thurston, Venezuela; Thomas Vollrath, Upper Volta. Mr. Smith will be starting at the Ph.D. level, and the others at the M.S. level.

One student who came to the Department last Fall, Glenn Ames (previous experience in Venezuela and Peru), will probably be shifted to 211(d) in September. For his first year of Ph.D. study, the Department Head was able to help him obtain an NDEA Fellowship.

For two other students who came in 1969 and who have strong international career interests (Mike Fuchs-Carsch and John Anania, with Peace Corps experience in Kenya and Mysore State, India, respectively) the Department has provided financial support through Agricultural Experiment Station assistantships and workshops.

In September 1970 Mrs. Ellen Gouin, who has been living in Upper Volta following Peace Corps service there, will begin M.S. work under an NSF Fellowship that was arranged through the Department Head. Her husband, Rene Gouin, is a French citizen who has been in agricultural development work in Upper Volta and will also be taking graduate studies in the Department. Some financial help from University sources is being arranged for him too.

An eighth student who has come to the University as an outgrowth of contacts made through the 211(d) Professor is Anthony Griffin, a former Peace Corps Volunteer in Colombia. He is well toward completion of M.S. studies in agricultural extension with supporting work in agricultural economics and rural sociology. Mr. Griffin has accepted a position at the University of Tennessee as Associate Director of International Student Affairs, starting September 1970.

For more complete information about the backgrounds of the 211(d) Fellows and the other students mentioned above, see Attachment A. There are additional American students in the Department who have ancillary or emerging interests in development and world agriculture, and who are participating in courses, special seminars, and other activities related to this area.

The two AID Participants from Mysore in the Department will be doing their Ph.D. dissertation research this coming year. Mr. A. N. K. Murthy, under the direction of Dr. Badenhop, has begun a study of emerging food grain marketing needs in Mysore, with emphasis on the regulated markets system. Noel Rebello is working under Dr. Brown and is still in the process of firming up a topic. One proposal being considered would relate to projection of future input needs for selected areas of Mysore, building from farm-level adjustment information. Another possibility would be a multi-country review of development program evaluation approaches, with a view toward suggesting techniques for appraising the impacts of the Tungabhadra irrigation scheme. This later topic would link to the studies of Mr. Cashdollar and the MUAS group mentioned earlier. For both students, not being able to return to India to obtain data firsthand presents real problems. Some help along this line may be provided by Dr. Badenhop during his short-term assignment in Mysore this Summer, as well as by Dr. Brown, who plans to be there for a few weeks in September or October.

Two theses which relate to international development were completed by foreign students in the Department this year. One was on factors influencing cocoa prices in Brazil. The other dealt with improvement of agricultural cooperatives in Iraq. This Summer an A/D/C student from Malaysia plans to do a thesis on alternatives in design of land settlement schemes of that country, under the direction of Dr. Brown. Analysis of the 1968 land tenure survey in the Dominican Republic continues. A Ph.D. dissertation based on the joint work with the Oak Ridge National Laboratory related to development of agro-industrial complexes in the Near East was completed this year. Several students and faculty members in the Department have been working on studies related to rural-urban adjustment, migration, and TVA impacts in the Tennessee region.

In anticipation of a renewed Extension Service-Experiment Station thrust in this direction, the Department has been discussing possible ways to intensify attention to critical rural development problems and opportunities in Tennessee. The 211(d) Professor has taken an active part in this, as it is felt that such work could well have close conceptual ties to development work abroad.

For the first time in several years, staffing of the Department was brought to full strength with the filling of four vacancies by early 1970. All of these four men have recently, or have nearly, completed Ph.D. degrees--Ray Daniel and Ben McManus from Purdue, Frank Goode from Minnesota, and Billy Trevena from Tennessee. They will be involved in teaching and research related to policy, finance, marketing, production economics, land and water resource development, and quantitative methods.

3. Other Activities for Strengthening International Competencies Aided by 211(d)

Special seminars and discussions. During the year there was a conscious effort to increase the amount of interaction among faculty and students in the Department and the Institute of Agriculture about world agriculture through special seminars, debriefings, and research brainstorming sessions. Particular emphasis was placed on emerging programs and problems in southern India, through presentations by University staff who had returned or were on home leave from assignments with the Tennessee/

AID contract team there, as well as by Indian officials and technicians who were in Knoxville on special study programs. Additional sessions related to various regions of the world drew upon the experiences of students, faculty, and special visitors to the agricultural campus.

During the earlier part of the year these discussions were largely in the context of an "India Research Brainstorming" series organized by Professors Brown and Badenhop. Since Spring 1970 informal seminars related to India and other development situations have been arranged through the newly formed Committee on International Agriculture described below. The initial aim of this Committee was to help agricultural undergraduates with potential interest in international service to "rub elbows" with faculty and other students who have overseas experience. However, as things have emerged these sessions also (a) enable faculty and students who have been abroad to share and analyze experiences with one another, (b) provide Indian Participants with some comparisons with agricultural development problems in other countries, and (c) acquaint Institute of Agriculture staff who have not yet been abroad with the work of Tennessee and others in international development. Participation has usually included persons from several departments, and has ranged from 10 to 40, and in two instances the entire agricultural research staff.

International agriculture seminars many of which the 211(d) Professor helped to plan and publicize in cooperation with the Director of International Agricultural Programs included this year the following:

India Research Brainstorming Series (arranged by D. W. Brown and M. B. Badenhop)

- July 28 Dr. M. B. Badenhop, Professor of Agricultural Economics: Findings of his 3-month study of food grain marketing problems in Tamil Nadu State.
- Aug. 8 Dr. M. B. Badenhop: Implications of his Tamil Nadu findings for further research by Indian Participants and 211(d) students.
- Sept. 10 Mr. Parker Cashdollar, 211(d) Fellow: Review of his M.S. research proposal related to agricultural credit programs in Mysore State.
- Oct. 15 Mr. A. N. K. Murthy, USAID Participant: Review of Ph.D. research proposal related to improvement of food grain marketing systems and regulated markets in Mysore State.
- Oct. 28 Dr. W. D. Bishop, Associate Dean of Agricultural Extension: Observations on possible improvements in soil testing programs in Mysore State, and effective approaches to short-term consulting work, based on his 3-month assignment in India.
- Feb. 26 Professor Ralph Ramsey, Rural Sociologist, Tennessee/AID Team: Challenges and opportunities at Mysore University of Agricultural Sciences for the returning Participant.
- Feb. 27 Professor Ralph Ramsey: Some thoughts about social science research needs and methods in the agricultural development of Mysore.

Committee on International Agriculture Series (L. N. Skold, Chairman)

- Apr. 3 Informal evening discussion at the home of Professor Skold for students, Indian Participants, Peace Corps returnees, and certain faculty to discuss recent developments in India and interest in continuing seminar series related to world agriculture.
- Apr. 20 Dr. Frank Bell, Professor of Agronomy: Observations from his 3-month assignment related to improvement of soil management teaching at the Mysore University of Agricultural Sciences.
- May 4 Dr. Frank Woods, Professor of Forest Ecology: Experiences related to shifting agriculture in the Upper Amazon Basin.
- May 15 Informal evening discussion at the home of Dr. Brown to compare Peace Corps experiences of Steve Jefferies in Bolivia, Jim Rugh in Senegal, and Glenn Ames in Venezuela.
- June 4 Mr. Tom Langford, Leader, Tennessee/AID Agricultural Production Promotion Program in Mysore State: A review of recent developments in the APP Program.
- June 12 Mr. Gist Welling, Deputy Group Leader, Tennessee/India Agricultural Programs: Recent advances in agricultural university development and extension activities in Mysore State.

Other Inter-Departmental Sessions Related to World Agriculture

- Oct. 2 Drs. Max Springer and Henry Fribourg, Agronomy Department, and Dr. M. J. Montgomery, Dairy Department: Agriculture in Puerto Rico. (Experiment Station seminar.)
- Oct. 10 Drs. D. M. Thorpe and Martin Weeks, Tennessee/India Team: Progress and future plans of Tennessee's programs in India. (Arranged by Lewis Dickson, Director of International Agricultural Programs.)
- Oct. 22 Dr. Horace J. Davis, Assistant Administrator, Foreign Agricultural Service, U. S. D. A.: Challenges in foreign agricultural service. (Arranged by O. E. Goff, Head, Poultry Department.)
- Nov. 7 Dr. Milton Barnett, A/D/C Associate in Rural Development, Malaysia: Some observations about recent transitions in Southeast Asia, and possible contributions of university agricultural and social scientists to international development efforts. (Arranged by D. W. Brown.)
- Feb. 5 Dr. John Ewing, Dean, Agricultural Experiment Station: Observations on the progress of agricultural research in Mysore State, India. (Experiment Station seminar.)

Feb. 12 Dr. William H. Nicholls, Latin American Studies Director, Vanderbilt University: Agricultural frontiers in Brazil. (Sponsored by the Department of Agricultural Economics and Rural Sociology.)

In addition a number of faculty, students, and outside resource persons gave talks related to world agriculture as part of on-going departmental seminar series and student club programs on the agricultural campus.

Accelerated efforts to reach agricultural undergraduates. As an unanticipated outgrowth of previous contacts with the 211(d) Professor, the Director of International Education, and others, this Winter the Peace Corps approached the Institute of Agriculture about a possible "Intern" program under which interested students would be prepared for agricultural development assignments in South India. There did not turn out to be enough interested upperclassmen to go ahead with this, in the immediate future at least. However, exploration of this proposal by the 211(d) Professor and others disclosed that a number of agricultural undergraduates had been thinking about Peace Corps or other international service.

As a means of providing such students with special counseling and opportunities to interact with others on campus who have experience abroad, the Dean of the College of Agriculture established a Committee on International Agriculture on a trial basis. This is initially being chaired by Professor Laurence Skold, who was with the Tennessee/India program for six years and who has been allotted time during the Spring and Summer of 1970 to spearhead discussions and other helps to students with latent international interests. Other current Committee members include Drs. Badenhop and Brown, Dr. Frank Bell in Agronomy; Dr. Frank Woods in Forestry; and Mr. James Rugh, a student who has extensive experience in India.

Although its concern with helping students continues to be central, the Committee is also emerging as the vehicle on the agricultural campus through which other special discussions related to international development are organized. Additional seminars and debriefing sessions for staff and students are being planned for the coming year. Thought is being given to a possible one-credit problems course in the Winter or Spring for underclassmen who would like to learn more of what international development and assistance is all about. In addition, it is expected that the Committee members will continue to be consulted by individual students and their advisors about overseas service or job opportunities and course electives that might be useful in preparing for such work.

University self-study. During the Winter the Department initiated a comprehensive review of future teaching and research directions, a process which has involved considerable thinking and interaction among faculty members. International development was seen as one of the areas to receive continuing priority. Even though emphasis will be on India, it was felt to be desirable to have students in the Department from

various countries and to encourage occasional faculty involvements in several places in years to come. Rather than walling off the international dimension as an isolated activity, it was felt that teaching and analysis related to overseas and domestic development problems could be productively intermeshed in a number of ways.

This Department review, in turn, has fed into a University-wide self-study being conducted during the Spring and Summer of 1970. In committee discussions and faculty-student opinion surveys considerable attention is being given to work with international students and overseas activities.

In addition to work on the Department review, the 211(d) Professor is a member of the campus-wide committee on administration and organization.

Library materials. The special India section of the Agricultural Library has continued to grow and be actively used. More than 200 books and special reports of relevance to the work in South India were added during the year on the basis of suggestions made by Professors Brown, Badenhop, and Skold. Grant funds are not being used for these acquisitions. In addition, a number of useful items have been provided by the Director of International Agricultural Programs, the Tennessee Party Chief in India, and other team members there. The Agricultural Librarian and his staff have provided much help in organizing and maintaining this collection. Dr. Brown and the Agricultural Librarian have also been working together on a selective buildup of reference materials related to international agriculture and development.

Special arrangements for foreign students. The 211(d) Professor helped several foreign students to arrange for special between-term study and travel programs. Among others, these included participation by two students in a new travel study course related to agriculture in the Tennessee region, a visit by six foreign agricultural economics students to the Tennessee Corp Reporting Service in Nashville, and special arrangements for several to observe nearby TVA and Extension activities. In making these local arrangements there has been especially helpful cooperation by the Director of the TVA International Visitors Center, the Head of the Department of Agricultural Extension, and the Extension Resource Development specialists.

Symposium participation. To help reinforce his teaching and research in international development, 211(d) funds were used to enable Dr. Badenhop to participate in the symposium of Food Production and Income Distribution in South Asia held in Manhattan, Kansas, in September.

Other activities in which the 211(d) Professor has been involved since July 1969 include:

- ...Prepared the committee report on possible CUSURDI contributions to long-range agricultural adjustment analysis (LRAAA) in India, and presented it to the Council members in July 1969.
- ...Served as a faculty advisor to the International House Program Planning Committee.

- ...Continued as Career Consultant in agricultural economics for the Peace Corps, in which returning Volunteers write for help in locating suitable programs of graduate study.
- ...Served as a member of a special University Senate Committee on evaluation of grading systems and academic standards, in which special needs of foreign students received some attention.
- ...Served as a member of the selection committee for the McClure Fellowships, which are awarded by Tennessee donors to outstanding students in the area of international affairs.
- ...Continued as a member of the campus Asian Studies Committee, which concentrated this year on establishment of an Asian Studies Program in the College of Liberal Arts.
- ...Prepared a radio tape on international development and assistance trends for distribution by the Institute of Agriculture to 70 stations in the Tennessee region.
- ...Met with several international visitors to the University and TVA, and arranged informal sessions in the office and home for some to interact with students and other faculty.

Related Developments on Campus

Overall attention to international students, curricular improvements, and overseas study and service opportunities has continued to grow on the University of Tennessee campus in modest, but healthy, fashion. This has been greatly aided by the Office of International Education, which was established two years ago, as well as by further strengthening of the Office of International Student Affairs this past year.

The Director of International Education, Dr. Nelson Robinson, has provided much informal support to the 211(d) Professor and others through such activities as generating better communication among faculty and students with international concerns, calling attention to resource materials and visitors of interest, helping to arrange for special off-campus speakers and symposia, and serving as a sounding board for ideas. Illustrative of activities that received the International Education Office's attention this past year are: (1) planning and approval of the Asian Studies Program in the College of Liberal Arts; (2) arrangements for students to participate in summer work projects in Venezuela and Colombia; (3) furthering of University and citizen involvement in the Tennessee Partners of the Alliance Programs in Venezuela and Amazonas State of Brazil; (4) more organized arrangements for informing and guiding students about overseas study and travel opportunities; and (5) inauguration of a new newsletter, Focus International, aimed at keeping faculty and students informed about the University's international dimension.

Under its new Director, Mr. Dixon Johnson, the Office of International Student Affairs has made good progress on a number of fronts. Of particular note are: (1) an improved program for orienting new international students, with active leadership provided by a group of interested American students called INTERCOM; (2) much increased use

of the International House (currently more than 1,000 student hours per week) as a vehicle for informal international-American student interaction, social events, discussions, movies, and trips to nearby points of interest; (3) organization of low-cost European travel opportunities for students and faculty; and (4) a new "Certificate of Participation" program to provide international students who have to terminate early for one reason or another with tangible recognition for their work at Tennessee. The number of international students on campus in any one term has been between 400 and 500.

As an outgrowth of earlier contacts made by the Director of International Education, the Institute of Agriculture is exploring the possibility of a contractual exchange-assistance arrangement with a regional development corporation in Venezuela. This would focus, initially on improvement of forested land management systems, and would involve faculty and graduate students in the Department of Forestry. However, the overall scope of Venezuelan group is broader than this and, should Tennessee move into such a relationship, it could become a mutually productive outlet for students and faculty in other development specialities who wish to do research and gain experience abroad under other funding.

The Economics Department, in which agricultural economics students take much supporting work, has continued to strengthen its offerings in development and international economics. One professor, Dr. Walter C. Neale, has special interest in India, and one of his advanced seminars focuses on grassroots development in that country. In June, he completed a Spring Review Country Paper for AID, "Land Reform in Uttar Pradesh, India."

Of possible interest to AID is the special report released in May by the University's Center for Business and Economic Research, "Growth and Change in Mexican Agriculture" by W. E. Cole and R. D. Sanders.

In the University there have been several course additions this year related to world affairs, foreign cultures, and development. Beside the two new agricultural economics offerings mentioned earlier, a new political science course, Comparative and Development Administration, should be of special interest to students in the Department.

Among the Institute of Agriculture staff and administrators there has been a significant increase this year in the number who have experience in India; six went to Mysore for the first time for short-term assignments with the Tennessee/AID contract team there, and four others returned to Tennessee following long-term assignments with the team.

The general picture in the Institute of Agriculture and on the overall Knoxville campus is that, while few departments as yet have many faculty and students with strong international concerns, there is in the aggregate a significant amount of interest and experience in a variety of problem areas and geographical regions. This suggests the desirability as the international dimension further unfolds of placing considerable emphasis on activities, such as organized seminars, overseas research, assistance work, which are cross-disciplinary.

Expenditures to Date

Total 211(d) expenditures from July 1968 to June 1970 have been about \$57,500--some \$22,500 less than the \$80,000 that had been projected initially. This is because most of the 211(d) fellowships will not begin until Fall 1970. With existing commitments, it appears that all of the carryover funds will be needed to complete the programs of these students during the remaining three years. No grant funds have been used for equipment. For more details of expenditures to date and projected patterns, see Attachment B.

Plans for 1970-71

The 211(d) Professor will continue to reinforce efforts in the Institute of Agriculture and on the campus as a whole to strengthen curricula, to generate closer interaction among relevant faculty and students in activities related to world agriculture, and to afford undergraduates with more opportunities to become acquainted with development problems and international service possibilities. But now that groundwork for such continuing emphases has been laid and to some extent institutionalized, he plans to devote more of his time this coming year to the subject matter of agricultural and rural development itself. Probably about half of Dr. Brown's time will be devoted to helping M.S. and Ph.D. students in planning their study programs, and conducting and writing up their research. He will be teaching the new courses related to agricultural and rural development planning during the Summer of 1970 and again during the Spring or Summer of 1971. He proposes during the year to start writing a series of interrelated monographs related to operational program planning. These would not only become core reading materials for the two courses in the future but would also hopefully be of use in teaching and in-service training in India and elsewhere. These teaching materials could also result in a more cohesive framework for blending together the results of previous research of the Department related to Tennessee and international development, as well as for identifying future research activities.

One other professor in the Department--Dr. Badenhop--will continue to be heavily involved in international work. He will return in late August 1970 from the three-month assignment in Mysore State to teach his two agricultural development courses and, jointly with Dr. Brown, will provide leadership of graduate study and research programs related to international agriculture. Most other professors in the Department will continue to have associations with foreign students, 211(d) Fellows, and others in the "development" group through membership on, or chairmanship of, graduate advisory committees, as well as through teaching contacts. A special effort will be made this year to involve the new faculty members in advisory work and research planning for these students.

As noted earlier, the first 211(d) Fellow (Parker Cashdollar) expects to go to India Fall and Winter 1970 for Ph.D. dissertation work in informal cooperation with the Mysore University of Agricultural Sciences. Dr. Brown is planning to be in Mysore for a few weeks at the beginning of this period to help Mr. Cashdollar organize this work. This stay will also be used by Dr. Brown to obtain materials for the Ph.D. study to be conducted by Mr. Rebello in Knoxville, to firm up research plans for 211(d) students who will be ready in 1971 and 1972, and to obtain further background of emerging problems and activities related to his own work on operational agricultural program planning. No other trips to India under 211(d) auspices are anticipated during 1970-71.

Eight Americans with international career interests (seven with prior experience abroad) plan to begin or continue graduate study in the Department during the 1970-71 academic year. Five of these will be under 211(d) fellowships. By Summer 1971 the first 211(d) Fellow, Mr. Cashdollar, should be nearing completion of his Ph.D. dissertation and degree requirements.

A second will probably be taking Ph.D. prelims and preparing for dissertation research. A third will be mid-way in his Ph.D. course work. And the two other 211(d) Fellows should be well toward completion of M.S. degree course requirements and beginning their Master's thesis research, prior to continuing on for Ph.D. study. These M.S. thesis will be done on the Knoxville campus on topics related to international development.

With the wealth of cross-country experience represented among these students, as well as the several foreign graduate students who will be in the Department this coming year, a special effort will be made to provide more opportunities for exchange of ideas and buildup of analytical constructs through such vehicles as advanced seminar courses, special seminars, and informal sessions in faculty homes. Analytical interaction with faculty and students who are working on Tennessee rural development problems, as well as with persons who have developed interests and experience in other departments on campus, will be encouraged. Although there are no plans to use 211(d) funds for "outside" speakers, it is anticipated that there will be a number of opportunities for the 211(d) group to have contact with special visitors and lecturers who are concerned with international problems. The sizable number of senior-level persons from developing countries who come to Knoxville to visit TVA represent a source of outside insight and stimulation that might well be tapped to a greater extent in the future, and there have already been efforts by several on campus to facilitate this.

The number of students under 211(d) auspices will be at a peak in 1970-71. Accordingly, grant expenditures are expected to be at the highest level of the five-year period...about \$57,000. (See Attachment B.) It will be necessary to taper down expenditures during the final two years of the grant period in order to keep within the authorized total. Projections are that it will not be possible to take on any additional graduate students under the 211(d) grant beyond the five to whom commitments have already been made.

The Department has received inquiries from several additional students who want to prepare for international careers under a 211(d)-type program, and there is a desire to accommodate a modest number of such students in years to come. It may be possible to arrange Experiment Station assistantships, NDEA or NSF Fellowships, or other financial helps for one or two each year, but these kinds of sources would not enable students to gain analytical experience abroad. So, with these needs and capable students in mind, the Department Head and the 211(d) Professor will endeavor this coming year to look for student-assistance sources to carry the 211(d) idea forward. At the moment, such prospects do not appear to be abundant.

Another area that will receive the 211(d) Professor's attention in 1970-71 is placement of the students who will be nearing completion of graduate work. Potential employers in educational and international development fields will be alerted to the names and qualifications of students who are coming along, and every effort made to help them find as productive outlets as possible.

**BIOGRAPHICAL SKETCHES OF AMERICAN GRADUATE STUDENTS
WITH CENTRAL INTEREST IN INTERNATIONAL DEVELOPMENT**

Department of Agricultural Economics and Rural Sociology
University of Tennessee

AID/Section 211(d) Grant Fellows

- Glenn C. W. Ames: Born 1942, New York. Married. B.S., 1964, Mansfield (Pa.) State College, social studies education. M.A., 1968, Northern Illinois University (Latin American history). Peace Corps Volunteer in community development and extension youth work, Venezuela, 1964-66. M.A. thesis on land settlement in Peru. Taught high school in Rochester, New York, 1968-69. Began Ph.D. studies at Tennessee in September 1969 under a 211(d) workshop and, later, NDEA Fellowship. Will continue Ph.D. work under 211(d).
- Parker D. Cashdollar: Born 1942, Tennessee. Married, 1 son. B.S., 1964, University of Tennessee, agricultural economics. County supervisor, Farmers Home Administration, 1964-68. Began M.S. and Ph.D. studies at Tennessee in September 1968, under 211(d). In January 1970 completed M.S. thesis, "Some Considerations in Design of Agricultural Credit Programs for Mysore State, India." Has completed Ph.D. course requirements, and plans to do dissertation research in Mysore, Fall 1970.
- George F. Smith: Born 1941, New York. Married. B.S., 1963, University of Connecticut, agriculture. M.S., 1967, Montana State University, agronomy and international development. Peace Corps Volunteer in agricultural development, Ecuador, 1963-65. Administrator of AID/Montana summer training courses for extension workers from Ecuador, 1966-67. Agricultural advisor with the Peace Corps, Bolivia, 1967-70. Will begin Ph.D. studies at Tennessee under 211(d), starting September 1970.
- Robert V. Thurston: Born 1943, Washington. Married. B.A., 1966, University of Oregon, political science. Two terms of graduate work and research related to Latin America, University of Oregon, 1967. Peace Corps Volunteer in land settlement, co-op development, and extension, Venezuela, 1967-70. Also has lived in Mexico. Will begin M.S. studies at Tennessee under 211(d), starting September 1970.
- Thomas L. Vollrath: Born 1944, Missouri. Single. B.A. (hons.), 1967, University of the South, economics. Peace Corps Volunteer in agricultural extension and community development, Upper Volta, 1967-70. Will begin M.S. studies at Tennessee under 211(d), starting September 1970.

Students Under Other Funding

John R. Anania: Born 1936, West Virginia. Married. B.S., 1962, Youngstown (Ohio) State University, public relations. Commercial sales work, 1962-66. Peace Corps Volunteer in dairy and poultry development, Mysore State, India, 1966-69. Began studies toward M.S. at Tennessee in September 1969. Now holds an Agricultural Experiment Station workshop related to rural sociology.

Michael A. Fuchs-Carsch: Born 1942, Poland (now a U.S. citizen). Married. B.Soc.Sc., 1966, Birmingham (England) University, economics. Commercial bank experience in Germany, 1962-63. Peace Corps Volunteer in national agricultural development planning, Kenya, 1966-68. Began studies at Tennessee in March 1969. Now writing M.S. thesis and has started Ph.D. courses, under an Agricultural Experiment Station assistantship.

Ellen A. Gouin: Born 1945, Arkansas. Married. B.A. (cum laude), 1967, Mt. Holyoke College, economics. Peace Corps Volunteer in health education, Upper Volta, 1967-69. Has continued to live in Upper Volta since then. Plans to start graduate work at Tennessee in September 1970 under an NSF Fellowship. (Mrs. Gouin's husband, Rene Gouin, will also take graduate study in the Department. He is a French citizen who has been in agricultural assistance work in Gabon, Senegal, and Upper Volta.)

Attachment B
1969-70 Tennessee 211(d) Report

ACTUAL AND FORECAST EXPENDITURES

	Expenditures to Date			Forecast Expenditures			Forecast Five-Year Total
	1968-69	1969-70	Sub-total	1970-71 ^b	1971-72	1972-73	
Staff salaries and fringe benefits ^a	21,890	23,100	(44,990)	24,700	25,740	27,060	122,490
Graduate fellows							
Number	(1)	(1)		(5)	(3)	(2)	
Stipends	2,771	3,500	(6,271)	14,800	10,000	7,000	38,071
Other costs	<u>2,786</u>	<u>3,400</u>	<u>(6,186)</u>	<u>17,500^c</u>	<u>8,000</u>	<u>7,753</u>	<u>39,439</u>
Sum of all items	27,447	30,000	(57,447)	57,000	43,740	41,813	200,000

^aIncludes the 211(d) Professor and part-time support of one secretary/clerk.

^bAs estimated by early June 1970.

^c"Other cost" estimates for 1970-71 include:

Trips to India for the 211(d) Professor, Parker Cashdoler and family	- \$ 7,500
Dependency allowances for four 211(d) Fellows	- 2,500
University fees for five 211(d) Fellows	- 5,500
Miscellaneous - U. S. travel, computer time, supplies, etc.	- <u>2,000</u>
	\$17,500