

A. I. D.
AGRICULTURAL PROJECTS IN
LATIN AMERICA

MAB-Technical Assistance
Projects

SUMMARY INFORMATION

RESEARCH PROJECTS

CENTRALLY FUNDED

JUNE, 1970

OFFICE OF AGRICULTURE AND FISHERIES

TECHNICAL ASSISTANCE BUREAU

AGENCY FOR INTERNATIONAL DEVELOPMENT

1. Inheritance and Improvement of Protein Quality and Content in Sorghum
AID/csd-1175

Contractor: Purdue Research Foundation

This project screens world collection of sorghum for genetic traits controlling protein content and quality, and uses such traits to produce promising hybrids. It tests these cooperatively with countries throughout the tropics. Results support thesis that high yielding sorghums with markedly improved protein nutritive values are feasible. Identification of desirable hybrids requires additional country cooperative testing for at least two more seasons. Approximately 20 countries are now cooperating, through assistance of Missions.

2. Improvement of the Nutritional Quality of Wheat Through Increased Protein Content and Improved Essential Amino Acid Balance AID/csd-1208

Contractor: University of Nebraska

Cooperating Sponsors: Agriculture Research Service, U.S. Department of Agriculture; CIMMYT, and approximately 25 wheat growing countries.

The objective of the project is to breed wheat for improved total protein, and protein quality in terms of essential amino acid content. It is exploiting the discovery of genes in a variety - Atlas 66- that markedly increases protein content and quality. The entire world wheat collection is being screened to find other genes controlling protein. Rapid progress is being made in combining protein genes with other desirable traits, to produce new strains for worldwide testing. In 1968-1969, improved winter wheat types were evaluated in 16 countries at 23 locations. CIMMYT has accepted responsibility for comparable studies with spring-type wheats. From three to five years' additional research is projected to achieve delivery of improved protein wheats for commercial growth in many nations. This project is expected to have a major impact on world protein needs.

3. Improved Grain Legume (Pulses) production in Near East South Asia, East Asia and African Regions--PASA--RA-3-00

Contractor: Agricultural Research Service, U.S. Department of Agriculture

Cooperators: Government of Iran, Government of India

This project aims at the improvement of major food grain legumes, as a means of contributing to food protein supply in critically deficient countries. Work is centered in India (primarily Mung beans and pigeon peas) and in Iran (primarily chickpeas and lentils). Extensive collections have been made of varieties, types, and mixtures of 10 pulse species. There have been preliminary screening to identify promising material; identification of pests and possible types of plant resistance; and evaluation of cultural practices that improve yields. Seed samples and assembled information are given to other countries. Certain plant selections were made by India and Iran for distribution to farmers, but more research is needed prior to wide dissemination. In FY 1970, the India program was transferred to the A.I.D. Mission and the Government of India. The Iran Center is to be strengthened to serve NESAs over-all. For 1971, the prospect is for a worldwide plan (coordinated with foundations, USDA, universities, etc.) with five research centers having responsibility for individual species allocated as follows: Iran: chickpeas and lentils; Far East: Mung beans and pigeon peas; Africa: cowpeas and broad beans. Draft plan for expanded project went to the Regional Bureaus for comment and discussions with Foundations and USDA are underway. Renewal is under negotiation.

4. Major Cereals Project in Africa and Far East -- PASA RA(AJ) 4-00

Contractor: Agricultural Research Service, U.S. Department of Agriculture

This project undertakes the breeding of maize, sorghum, and millets for improved varieties and yields. It develops "packages" of cultural practices, and institutes effective pest control measures. Maize results are now strongly influencing commercial production in Kenya, Uganda and Tanzania, with maize and sorghum results entering field demonstration stages in 10 cooperating countries. The early fruition of this research (started in 1964) is due to the technological management of highly competent scientists and the prospect is for further accomplishments. 1970 program includes breeding for higher protein content and quality.

African aspects were transferred in FY 70 to the Regional Bureau. Extension of program to Far East is planned.

5. Inheritance and Improvement of Protein Quality and Content in Maize

Contractor: Purdue University

This new project on maize research will evaluate promising germplasm from the world collection for other genetic systems, in order to achieve additional breakthroughs in protein quality and quantity. The project also will assist in the creation of a worldwide system for maize improvement and in the rapid dissemination of research findings to cooperators.

6. Research in Farm and Equipment Power Requirements for Production of Rice - AID/csd-834

Contractor: International Rice Research Institute

Power requirements are critical for efficient rice culture and harvest, particularly for paddy rice where two or more crops per year are planned. The project includes critical evaluation of power requirements, design and adaptation of improved types of equipment and use of power sources, that are particularly suited to LDCs. Significant progress made with tilling machines, weeders, fertilizar applicators, and threshers; and these are being field tested. Further research is underway on other improved machines for harvesting, drying and milling rice, as well as with weeders. This research is stimulating commercial production of acceptable machines.

7. Preparation of a Plan for the Orientation of Research on Cassava
---AID/csd-2497

Contractor: University of Georgia

The objective of this project (signed June, 1969) is to inventory existing knowledge and identify priority areas for research on the important food crop, cassava. The ultimate aim is to explore the possibilities of improving the quality of cassava by increasing the protein content through selection and breeding. The survey is coordinated with the programs of the Ford and Rockefeller Foundations in Colombia and Nigeria.

8. Analysis of Data on the Nutrient Status of Soils--AID/csd-287

Instructor: North Carolina State University

This project provides guidance to 13 Latin American countries on procedures for operating soil testing laboratories to analyze farmer field samples and determine fertilizer requirements. Under this project, capacity of country laboratories increased from 30,000 analyses in 1965 to 167,000 in 1968. Technicians have been trained in the U.S., and Manuals prepared and distributed in Spanish, Portuguese and English. These manuals cover evaluation methods, economic analysis data for reliable and economically efficient fertilizer recommendations, and serve as guides to country fertilizer recommendations, procurement and application. The project is used extensively by A.I.D. Missions. Technical assistance component was funded by LA Bureau as of January 1, 1970. The research element is being continued and expanded under a new contract.

9. Agreement for Economic Research on Tropical Soils

Contractor: North Carolina State University

Under this new project, North Carolina State University will develop a methodology for an economically sound system of fertilizer recommendations as derived from soil analysis and crop response data. While the project is based primarily in Latin America, the results will apply to all developing countries and tropical regions.

10. Soil Fertility Requirements to Attain Efficient Productivity on the Extensive, and Well-drained Upland Soils of the Humid Tropics--AID/csd-2490

Contractor: Cornell University

Cooperating Sponsors: University of Hawaii and University of Puerto Rico

The contract for this project was signed in June, 1969. Work has been started in Puerto Rico and based on results there, it is being extended to Latin America.

11. Determination of Research Needs of Soils of the Tropics--AID/csd-2505

Contractor: Agricultural Board, National Academy of Sciences

There are over two billion acres of potentially arable land in the tropics which are essentially uncultivated. The objective of this contract is to carry out a definitive study of high priority research needs relating to soils of the tropics and their management. This is being done by a committee of 12 experts, six of whom are Europeans experienced in tropical development. The results of this study will provide guidelines for a coordinated attack on problems of tropical soils by local and worldwide research organizations. The study will also serve as a guide to A.I.D. in the types of programs which are suitable for Agency support.

12. Tailoring of Fertilizers for Rice - PASA RA(AJ)5-69

Contractor: Tennessee Valley Authority

The objective is to develop efficient, slow-release fertilizer materials, especially nitrogenous, to meet the needs of rice plants grown under flooded conditions. An International Advisory Committee, including representatives of CIAT, IRRI, Japan, Thailand, Ceylon, University of California and Louisiana State University has met and developed designs for field experiments based on preliminary work at TVA. Field trials are underway in the Philippines, Thailand, India and Ceylon. They involve comparisons of different nitrogen and phosphate fertilizers developed and tested by TVA. These are compared with standard fertilizers. The results of the current field trials were reviewed by the Advisory Committee in the spring of 1970. Reports indicate that under field conditions, crop response to various phosphate rocks bears out predictions based upon mineralogical studies at TVA. It also appears that sulphur-coating of urea is effective in slowing the release of nitrogen under flooded conditions.

3. Water Management Research in Arid and Sub-Humid Lands of LDCs AID/csd-2162

Contractor: Colorado State University

Cooperating Sponsors: USAID/Pakistan, and various Pakistani Institutions

Research is directed to water development and water management principles that are applicable to irrigated agriculture in Pakistan, with the expectation that results can be readily adapted to similar regions in other LDCs. Research is designed to attack the problems identified in surveys of Pakistan conditions. The objective is improvement of water management practices, so as to achieve maximum economic returns from limited water resources when applied to improved crops and farming practices. A conference was held in Denver in January, 1970, to plan for continuation of the research in 1970 and 1971.

14. Water Management Research in Arid and Sub-Humid Lands of LDCs AID/csd-2167

Contractor: Utah State University

Cooperating Sponsors: LA Bureau, CIDIAT/OAS, USAID Missions, and Ministries in Brazil, Colombia, Chile, Venezuela.

A field survey has been made in El Salvador, Honduras, Colombia, Peru, Chile, and Brazil. Initial operations will proceed in Brazil, and extend to El Salvador. The objective is improvement of water management practices, so as to achieve maximum economic returns from limited water resources when applied to improved crops and farming practices. The conference, held in Denver in January, 1970, planned for continuation of the research needed to provide a sound basis for irrigation development projects in the regions of limited moisture supply.

15. Control of Weeds in LDCs AID/csd-1442

Contractor: Oregon State University

Cooperating Sponsors: Governments of Colombia, Ecuador, El Salvador, USAID Missions; University of Hawaii; private industry (both domestic and foreign)

This project provides assistance from the International Plant Protection Institute at Oregon State for the development of simple, effective methods for weed control. New materials are evaluated in Hawaii, at Oregon State, and in the cooperating countries. Governments are aided in training technicians, and in developing indigenous weed research capability. Research and assistance to date have increased crop productivity, and reduced weed control costs. Private enterprise has been stimulated to enter into weed control activities on farm lands, to contribute expertise and to provide free-of-cost supplies of herbicides and weed control equipment for evaluation. Several manuals have been published.

The program is operating in Central and Latin America and expansion into East Asia is being explored.

16. Control of Vertebrate Pests (Rats, Bats and Noxious Birds)-- PASA RA(ID)-1-67

Contractor: Bureau of Sport Fisheries and Wildlife, Department of Interior

Cooperating Sponsors: Government of Mexico, Government of the Philippines, Government of Colombia; CIAT

The aim is to reduce crop and animal losses from these pests by developing effective and economical control measures.

Basic research involves (1) work on chemicals to serve as attractants, repellants and sterilants, and (2) work on remote control devices to monitor movement of these vertebrates. It is going on at the BSWF laboratories in Denver. Research and training programs on control of rodents have been initiated with USAID/Manila and the Government of the Philippines with a regional rodent control center established in the Philippines. In conjunction with the Government of Mexico, a project on vampire bats is operating at Palo Alto, Mexico. UNDP/PAO scientists are cooperating on the study of vampire bat ecology and predation. Negotiations are underway to establish a regional bird damage control program at CIAT in Colombia.

Several surveys have been completed to identify the nature and magnitude of damages and to identify the important causative species.

Backs log in TAB

17. Research on Sterility Method of Tsetse Fly Control PASA RA(AJ)1-00

Contractor: Agricultural Research Service, U.S. Department of
Agriculture

Cooperating Sponsors: University of Rhodesia; UNDP/FAO and
Government of Zambia (under negotiation).

Tsetse fly transmits fatal blood parasites to man and animal and limits the productive use of over 4 million square miles of Africa. Control of tsetse fly by the sterile fly technique offers a potentially practical technique. Systems for raising large populations of flies have been greatly improved. Experiments on small islands show the method is possible. Negotiations are underway with UNDP/FAO and Government of Zambia for a field trial of about 1,000 square miles.

The research site is being shifted from Rhodesia to Zambia for reasons external to the project operation.

18. Research on Hemoprotozoal Diseases of Livestock AID/csd-1947

Contractor: Texas A&M University

Cooperating Sponsors: Rockefeller Foundation, CIAT, Ford and Kellogg Foundations, and government agencies in Colombia

An epidemiological and geographic survey has been completed for anaplasmosis, theileriosis, and babesiosis diseases. Intensive research is being conducted at the CIAT Center at Palmira. The Colombian Government has made available a large tract of land near the research center, and coordination has been established at three tropical sites. A conference at the research center was held in February, 1970, with participation by the U.S.A.I.D Mission and the cooperators.

Control of these diseases is important in improving meat production in Colombia, and in augmenting animal protein supplies to deal with dietary deficiencies. The result will have worldwide applicability.

19. Laboratory and Field Testing of Foot and Mouth Disease Vaccine
AID/csd-2273

Contractor: National Academy of Sciences/National Research Council

The project provides for laboratory and field testing of a newly-developed foot and mouth disease vaccine that promises to provide immunity for one full year instead of the three or four months provided by current vaccines. It was initiated in 1969 in Argentina and Brazil. Results cannot be assessed as yet. If they are favorable, however, the Inter-American Development Bank plans to loan seven million dollars to Latin American governments for foot and mouth disease control.

20. Development of Conservation Processes for Fish Products

Contractor: Agrarian University, LaMolina, Peru

The purpose of this project is to develop new methods of preserving fish that will be suitable to Peruvian conditions and meet Peruvian needs. It is anticipated that these new methods will permit wider distribution of fish, particularly in the protein-deficient Altiplano. Research conducted under this project will have widespread applicability in many other countries.

21. Survey and Analysis of the Problem of Animal Protein Production in the Wet/Dry Tropics AID/csd-2498

Contractor: University of Florida

The project calls for the University of Florida, in cooperation with CIAT in Colombia, the Institute for Nutrition for Central America and Panama, and the Inter-American Institute for Tropical Agriculture at Turrialba, Costa Rica, to assemble and analyze the available data on cattle feeds and on research conducted to date. The project started in April, 1969 and it is too soon to assess results. It is directed towards overcoming serious nutritional deficiencies in cattle in Latin America. Overall goal is to improve human nutrition through more efficient livestock production and increased consumption of animal products.

22. Analysis of Capital Formation and Utilization in LDCs AID/csd-1937

Contractor: Ohio State University Research Foundation

Under this project, credit studies were made in Latin America; capital formation using credit was analyzed; and guides established for effective credit institutions and processes. Information was obtained in the formulation of policies and essential institutions to stimulate capital formation in support of food production. The project was superseded in FY 1969 by another capital formation and technological innovation at the farm level in LDCs.

23. Analysis of Capital Formation and Technological Innovation at the Farm Level in LDCs AID/csd-2501

Contractor: Ohio State University Research Foundation

As this project was started in the latter half of 1969, no results are available as yet. Primary target of the project is on the development of general analytical methods for measuring the effect of capital formation and technological changes on the developmental process. Brazil is one of the principal sites.

24. Factor Analysis for Accelerating Agricultural Productivity in LDCs
(Mexico) AID/csd-1467

Contractor: International Marketing Institute

This project was initiated in October, 1966 and was completed in December, 1969. It was carried out in Guadalajara, Mexico, and was aimed at investigating the economic, social and political factors inhibiting the adaptation of proven agricultural practices in traditional agricultural societies. The final report will assist USAID Missions in pilot projects for building overseas institutions that utilize technology and encourage investments from the indigenous private sector.

25. Rural Development Analysis: Agriculture Sector Planning Models
AID/csd-1557

Contractor: Michigan State University

This project is designed to analyze the agricultural activities of a region or country to identify situations or conditions that act as constraints on efficient functioning and development. It will serve as a guide to remedial actions that should be involved. Thus, the Nigerian beef industry is being evaluated to form the basis for delineating effective methodology, with the objective of expanding such methodology to include the bulk of the Nigerian agricultural economy. Conference to review and evaluate results obtained to date, held in January, 1970.

26. Analysis of Factors Associated with Differences and Changes in Agricultural Production in Selected Countries PASA RA)AJ)2-00

Contractor: Economic Research Service, U.S. Department of Agriculture

Twenty-six LDC countries have been studied extensively and eight countries intensively in an effort to indentify factors associated with higher rates of agricultural production, and general agricultural development. Comparisons are made with countries that have achieved higher productivity--Taiwan, Japan, Israel, Mexico, and Korea, to provide criteria applicable to short-range and long-term planning in LDCs. The final report has been prepared, and it is being distributed to the USAID Missions.

27. Agricultural Prices in Economic Development: Their Role, Function, and Operation AID/csd-1437

Contractor: Cornell University

Cooperating Sponsors: India, Pakistan, Nepal, Thailand, Taiwan

This project conducted studies within the above countries to determine relation of prices to the agricultural production process. For 1970, emphasis was on the influence of pricing on the consumer and on income and capital transfers. Resultant information has been made immediately available to cooperating countries for their use. Guidance also is being provided to other countries.

28. The Impact of New Technology on Rural Employment and Income

Contractor: Cornell University

The objectives of this new project (the second phase of the Prices project above) are: (1) To determine how new technology affects the employment opportunities and income of rural people and (2) from this analysis, to assist and accelerate technological changes and productive growth.

29. Analysis of Demand Prospects for Agricultural Exports from LDCs
PASA RA(AJ)2-66

Contractor: Economic Research Service, U.S. Department of Agriculture

The project ascertains future commodity demand prospects for agricultural products to be produced by LDCs for export. It concentrates on 26 commodities that presently enter international trade. The information is desired in order to guide LDCs in their efforts to earn foreign exchange by marketing agricultural products. A world trade and demand model for making projections to 1980 was designed with the result that country governments, with Mission counsel, can measure trade opportunities against country potential for production.

30. Farm Marketing Facilities and Practices in Tropical Africa

Contractor: Stanford Research Institute

Sub-Contractor: Michigan State University

Contract No. AID/csd-801

This project sought more efficient ways of marketing agricultural produce in sub-Saharan Africa. The research was needed to delineate marketing practices characteristic of the region with the aim of designing feasible remedies or selecting among those at hand.

Teams investigated marketing functions in the cooperating countries, Kenya, Sierra Leone and Nigeria, and prepared reports on Marketing of Staple Foods in Western Nigeria; and Eastern Nigeria; in Kenya and in tropical Africa overall. The result of this project is an improved basis for A.I.D. policy decisions related to marketing systems.

- 3b. Analytical Study of AID/University Programs in Agricultural Education and Research in the LDCs -- AID/csd-840

Contractor: Purdue Research Foundation

The specific purposes of this project were (1) to derive, from the systematic analysis of experience, significant principles with applicability broad enough to serve as guidelines for program planning and operations; (2) to assess what has been accomplished by the programs for developing agricultural education and research institutions abroad, and the cost of such development under varying circumstances; (3) to establish criteria of progress in institutional development to serve as guidelines for A.I.D., the U.S. university community, and the cooperating countries; and (4) to indicate, to the extent that experience-based data permit, other types of rural development assistance.

32. Diffusion of Innovations in Rural Societies AID/csd-735

Contractor: Michigan State University

This project was carried out by MSU between December, 1964, and December, 1968, and was aimed at developing effective means of communicating information on new technology to farmers. Research took place in Brazil, India and Nigeria. The project included three phases and resulted in the publication of 12 reports. The final report (to be used as a manual for field workers responsible for introducing new technology to farmers) has not been completed.

33. Research and Training in Land Tenure Reform in Latin America
REPAS 3

Contractor: Land Tenure Center, University of Wisconsin

Three components characterized this project: (1) research on land tenure systems in Latin America and the effects on agricultural development; (2) training of foreign nationals and Americans to improve their teaching research on administration of land reform programs and (3) consultative services to Latin American governments. While the project focused on one region, its results are having wide application in all countries with land reform programs underway or contemplated.

RESEARCH PROJECTS--OFFICE OF AGRICULTURE AND FISHERIES

1.

<u>TITLE OF PROJECT</u>	<u>CONTRACTOR/PARTICIPATING AGENCY</u>	<u>STATUS</u>
<u>I. Crop and Seed Improvement</u>		
1. Inheritance and Improvement of Protein Quality and Content in Sorghum	Purdue Univ. csd-1175	Contract extended 1 year
2. Improvement of Nutritional Quality in Wheat	Univ. of Nebraska csd-1208	" "
3. Improved Grain Legume Production in NESAs and FE	USDA/ARS RA-3-00	Renewal of contract being negotiated
4. Major Cereals Project in Africa and Far East	USDA/ARS RA(AJ) 4-00	
5. Improvement of Protein Quality and Content of Maize	Purdue University	New contract
6. Farm and Equipment Power Requirements for Rice in Asia	IRRI csd-834	Contract extended 1 year
7. Cassava Literature Review	Univ. of Georgia csd-2497	Project terminating
<u>II. Soils and Fertilizers</u>		
8. Analysis of Data on the Nutrient Status of Soils	North Carolina State csd-287	Contract extended for 6 months to complete reports
9. Agronomic-Economic Research on Tropical Soils	North Carolina State	
10. Soil Fertility Requirements to Attain Efficient Productivity on the Extensive, Acid, Well-drained Upland Soils of the Humid Tropics	Cornell University csd-2490	Ongoing 2-year contract To include Univ of Hawaii and Puerto Rico

<u>TITLE OF PROJECT</u>	<u>CONTRACTOR/PARTICIPATING AGENCY</u>	<u>STATUS</u>
11. Determination of Research Needs of Soils of the Tropics	NAS csd-2505	
12. Tailoring of Fertilizers for Rice	TVA RA(AJ)5-69	Ongoing contract amended to deobligate \$20,000
II. <u>Water Management</u>		
13. Water Management Research in Arid and Sub-humid Lands of the LDCs (NESA)	Colorado State Univ. csd-2162	Contract extended 1 year
14. Water Management Research in Arid and Sub-humid Lands of LDCs (LA)	Utah State Univ. csd-2167	" "
IV. <u>Pest/Disease Control</u>		
15. Control of Weeds in the LDCs	Oregon State Univ. csd-1442	" "
16. Control of Vertebrate Pests - Rats, Bats, and Noxious Birds	BSFW, Dept. of Interior PASA RA(ID)1-67	" "
17. Research on Sterility Method of Tsetse Fly Control	USDA/ARS PASA RA(AJ)1-00	" "
18. Hemoprotozoal Diseases of Food Producing Livestock	Texas A&M csd-1947	" "
19. Laboratory and Field Testing of Foot and Mouth Disease Vaccine	NAS csd-2273	
V. <u>Fisheries</u>		
20. Development of Conservation Processes for Fish Products	Agrarian Univ., LaMolina, Peru	Continuing this year; further funding under consideration

<u>TITLE OF PROJECT</u>	<u>CONTRACTOR/PARTICIPATING AGENCY</u>	<u>STATUS</u>
<u>VI. Animal Protein Production</u>		
21. Survey and Analysis of the Problem of Animal Protein Production in the Wet/Dry Tropics	Univ. of Florida csd-2498	Contract extended 1 year
<u>VII. Agricultural Financing</u>		
22. Analysis of Capital Formation and Utilization in LDCs	Ohio State Univ. Research Found. csd-1937	
23. An Analysis of Capital Formation and Technological Innovation at the Farm Level in LDCs	Ohio State Univ. Research Found. csd-2501	Contract extended 1 year
<u>VIII. Factor Analysis - Planning</u>		
24. Factor Analysis for Accelerating Agricultural Productivity in LDCs (Mexico)	International Marketing Inst. csd-1467	
25. Rural Development Analysis: Agriculture Sector Planning Models	Michigan St. Univ. csd-1557	Contract extended 9 months
26. Analysis of Factors Associated with Differences and Changes in Agricultural Production in Selected Countries	USDA/ERS RA(AJ)2-00	Being completed this year
<u>IX. Agricultural Pricing</u>		
27. Agricultural Prices in Economic Development: Their Role, Function, and Operation	Cornell University csd-1437	
28. The Impact of New Technology on Rural Employment and Income	Cornell University	

<u>TITLE OF PROJECT</u>	<u>CONTRACTOR/PARTICIPATING AGENCY</u>	<u>STATUS</u>
X. <u>Marketing</u>		
29. Demand Prospects for Agricultural Exports of LDCs	USDA/ERS RA(AJ)2-66	Being completed
30. Farm Marketing Facilities and Practices in Tropical Africa	Stanford Research Institute Michigan State University AID/csd-801	Completed
XI. <u>AID-University Programs in Agricultural Education</u>		
31. Agricultural Education and Research Projects under AID/University Contracts	Purdue University AID/csd-840	Completed
XII. <u>General Assistance to Agriculture</u>		
32. Diffusion of Innovations in Rural Societies	Michigan State Univ., csd-735	"
33. Research and Training in Land Tenure Reform in Latin America	Michigan State Univ., REPAS 3	"

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CONTRACTOR/PARTICIPATING AGENCY

STATUS

11. Determination of Research Needs of Soils of the Tropics

NAS csd-2505

12. Tailoring of Fertilizers for Rice

TVA RA(AJ)5-69

Ongoing contract amended to deobligate \$20,000

III. Water Management

13. Water Management Research in Arid and Sub-humid Lands of the LDCs (NESA)

Colorado State Univ. csd-2162

Contract extended 1 year

14. Water Management Research in Arid and Sub-humid Lands of LDCs (LA)

Utah State Univ. csd-2167

" "

IV. Pest/Disease Control

15. Control of Weeds in the LDCs

Oregon State Univ. csd-1442

" "

16. Control of Vertebrate Pests - Rats, Bats, and Noxious Birds

BSFW, Dept. of Interior
PASA RA(ID)1-67

" "

17. Research on Sterility Method of Tsetse Fly Control

USDA/ARS PASA RA(AJ)1-00

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Texas A&M csd-1947

" "

19. Laboratory and Field Testing of Foot and Mouth Disease Vaccine

NAS csd-2273

V. Fisheries

20. Development of Conservation Processes for Fish Products

Agrarian Univ., LaMolina, Peru

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23. An Analysis of Capital Formation and Technological Innovation at the Farm Level in LDCs	Ohio State Univ. Research Found. csd-2501	Contract extended 1 year
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24. Factor Analysis for Accelerating Agricultural Productivity in LDCs (Mexico)	International Marketing Inst. csd-1467	
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33. Research and Training in Land Tenure Reform in Latin America	Michigan State Univ., REPAS 3	"

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A.I.D. CENTRAL RESEARCH PROGRAM (TA BUREAU)

Active Projects as of 6/1/70

Project Title, Number and Monitor	Contractor, Contract Number	Research Locations	Date RAC Approved	Period Approved	Date Project Started	Estimated Project Completion Date	Total funding provided thru 6/30/69	Estimated FY 1969 Obligations	Funding Programmed FY 1970	FY 1970 PIG/T Date Cleared TA/RUR	Processing Obligations or Reservation Amount	Estimate FY 1971 Project Funding	Date for Further RAC Review and/or Extension Action	Date FY 1970 Funding Required for Project
<u>Agriculture and Fisheries</u>														
1. Analysis of data on the nutrient status of soils in Latin America. (A. Ayers TA/AGF)-031	N.C. State University at Raleigh-csd 287 (Dr. J.N. Fitts)	U.S. and Regional Headquarters: Brazil, Peru, Costa Rica, Guatemala	#2-2/63 #18-5/66 #20-2/67	5 years original project 2 year extension	6/25/63	6/30/70	\$1,324,395	\$223,388	\$ 42,842	3/4/70	\$ 42,842	-0-	completion; New Project Proposal Anticipated 2nd Half, FY 1970	
2. Development and use of improved varieties of the major cereal crops of Africa. (A. Ayers, TA/AGF)-028	Agricultural Research Svc. USDA PASA:RA (Aa) #00 DR.G.F. Sprague, Beltsville, Md.	Nigeria, Kenya, Uganda, U.S.	#3-5/63 #19-9/66 #20-2/67 #24-5/68	5 year original project 5 year extension	4/16/63	6/30/73	\$2,051,879	\$271,298 (AFR funding East Africa project for \$367,200)	-0-			-0-		to be funded by African Bureau beginning FY 1970
3. Improvements of grain legume (pulse) production in the Near East South Asia and Far East Regions. (A. Ayers, TA/AGF)-029	Agricultural Research Svc. USDA PASA: RA-3-00 (Dr. W.J. Zaunmeyer, Beltsville, Md.)	India, Iran	#3-5/63 #24-5/68	5 year original project 5 year extension	6/25/63	6/30/73	\$1,766,870	\$384,350	\$378,272	9/16/69	\$378,272	\$800,000		
4. Inheritance and improvement of protein quality and content in sorghum vulgare. (A. Ayers, TA/AGF)-452	Purdue Research Foundation, csd-1175 (Dr. R. C. Pickett)	U.S.	#16-1/66	5 year original project	6/30/66	6/29/71	\$ 499,077	\$152,755	\$193,225	3/6/70	\$193,225	\$225,000	April, 1971	
5. Improvement of the nutritional quality of wheat through increased protein content and improved amino acid balance. (A. Ayers, TA/AGF)-471	University of Nebraska csd-1208 (Paul J. Mattera)	U.S.	#18-5/66	5 year original project	6/29/66	6/28/71	\$ 491,077	\$123,925	\$193,500	3/6/70	\$193,500	\$250,000	April, 1971	
6. Research on farm and equipment power requirements for production of rice and associated food crops in the Far East and South Asia. (B. Eaton/VanKerften-TA/AGF)-443	Int'l Rice Research Inst. AID/csd-834 and 2541 (Atir U. Khan)	Philippines	#12-4/65 #26-4/69	4 year original project 2 year extension	6/28/65	1/28/72	\$ 360,000	-0-	\$207,300	8/11/69	\$207,300	\$225,000	April, 1971	

A.I.D. CENTRAL RESEARCH PROGRAM (TA BUREAU)

Active Projects as of 8/1/70

Project Title Number and Monitor	Contractor, Contract Number	Research Locations	Date RAC Approved	Period Approved	Date Project Started	Estimated Project Con- pletion Date	Total Fund- ing Provided thru 6/30/69	Estimated FY 1969 Obligations	Funding Programmed FY 1970	FY 1970 P O/T Processing Date cleared TA/RUP	Amount	Estimate FY 1971 Proj- ect Funded	Date for Further SAC Review and/or Extension Action	Date FY 1970 Funding Required for Project
7. Control of weeds in the LDCs. (J. Osuthorpe, TA/ -463)	Oregon State Univ. csd- 1442 (Dr. W. R. Furrick)	U.S. Columbia Ecuador Bolivia	#17-3/66	5 year original project	6/30/66	6/30/71	\$ 685,878	\$203,463	\$330,133	3/27/70	\$330,133	\$300,000	April, 1971	
8. Control of vertebrate pests. (N. Kannerup, TA/ AGF)-473	Bureau of Sport Fish- eries and Wildlife, Dept. of In- terior PASA RA(ID) 1-67 D.S. Balser)	Philippines (rats) Mexico (bats) Sudan (birds) Colombia	#20-2/67	5 year original project	4/5/67	4/4/72	\$ 683,267	\$409,509	\$459,534	3/16/70	\$459,534	\$500,000		
9. Research on the sterility method of tsetse fly con- trol. (N. Kannerup, TA/AGF)-030	Agricultural Research Svc. USDA PASA-RA -1-00 (Dr. E. F. Knippling Beltsville, Md.)	U.S. and Rhodesia; New Site possibly Zambia	#2-2/63 #12-4-65 #23-3/66	7 year original project (as amended) with coverage thru 6/30/70	6/14/63	6/30/70	\$ 979,704	\$145,280	\$ 82,955		\$ 82,955	\$200,000	Will be reexamined for relocation concept early in FY 1971 for multiple financing.	
10. Analysis of factors as- sociated with differences and changes in agricul- tural production in LDCs (R. McMillan, V. Hack, TA/ AGF)-027	Economic Re- search Svc. USDA; PASA RA-2-00 (Dr. R.P. Christen- sen)	Brazil Colombia Taiwan Nigeria Mexico Greece	#2-2/63 #20-2/67	6 1/2 year original (as extended)	3/20/63	6/30/70	\$1,988,536	\$167,293	\$ 14,955		\$ 14,955	-0-	No extension	
11. Role of agricultural prices in economic develop- ment. (R. McMillan, TA/ AGF)-463	Cornell Univ. csd- 1439 (Dr. J. V. Helton)	U.S. Thailand Hond Pakistan Taiwan Chile	#16-1/66	3 year original project 1 year extension for final report	6/30/66	6/23/70	\$285,857	\$ 20,857	-0-		-0-	-0-	No extension	
12. Analysis of demand pros- pects for agricultural ex- ports of LDCs. R. McMillan, TA/AGF)-454	Economic Re- search Svc. USDA; PASA (A) RA-2-66 (Dr. K.L. Bachan)	U.S.	#16-1/66 #25-4/69 #28-10/60	3 year original project 7 month extension 6 month extension	6/1/66	6/30/70	\$984,408	\$348,685	\$234,678		\$234,678	-0-	No extension	

A.I.D. CENTRAL RESEARCH PROGRAM (TA BUREAU)
Active Projects as of 6/1/70

Project Title Number and Monitor	Contractor, Contract Number	Research Locations	Date RAC Approved	Period Approved	Date Project Started	Estimated Project Com- pletion Date	Total fund- ing Provided thru 6/30/69	Estimated FY 1969 Obligations	Funding Programmed FY 1970	FY 1970 P10/T Date cleared TA/RUP	Processing Obligations Amount	Estimate FY 1971 Proj- ect Funding	Date for Further RAC Review and Extension Action	Date FY 1970 Funding Required for Project
Agriculture and Fisheries														
13	Rural development analysis: Michigan Agricultural sector plan	Michigan State Univ.	#20-2/67 #24-5/68	39 month original project	6/30/67	9/30/70	\$ 215,325	-0-	\$115,000			-0-		
	wing models. (D. Eaton, R. McKillan, TA/AGF)	csd-1557 (Dr. G. Johnson, Dr. T. Menetsch)	#29-3/70											
14	Water management & research	Utah State Univ. csd	#24-5/68	5 year original project (Cost Amendment)	6/28/68	6/20/73	\$ 294,750	-0-	\$484,800	3/16/70	\$484,800	\$700,000		
	(A. Ayers, O.J. Kelley, TA/AGF)-489	2167 (Dr. A. Bishop)	#29-3/70											
15	Water management & research	Colorado St. Univ. csd	#24-5/68	5 year original project	6/28/68	6/28/73	\$ 369,240	\$ 70,000	\$455,000	3/12/70	\$455,000	\$600,000		
	(A. Ayers, O.J. Kelley, TA/AGF)-489	2162 (Dr. H. Albarison)												
16	Research on hexoprozoal disease of livestock. (N. Konnerup, TA/AGF)-475	Texas AMU csd-1917 (Dr. K.L. Kuttley)	#20-2/67	5 year original project	6/30/68	6/30/73	\$ 284,358	-0-	\$256,642	3/19/70	\$256,642	\$250,000		
17	Tailoring of fertilizers for rice (O.J. Kelley, A. Ayers, TA/AGF)-494	Nat. Fertilizer Res. Center TA, PASA RA (QA) 5-69 (Dr. D. McCune)	#24-5/68	4 year original project	7/1/68	6/30/72	\$ 60,000	\$ 60,000	\$121,500	3/27/70	\$121,500	\$175,000		
18	Laboratory and field testing of a newly developed foot & mouth disease vaccine (C. Van Raalten, TA/AGF)-499	Nat. Academy of Sciences CSD-2273 (Dr. J. Collins, Plum IS. Lab.)	#26-4/2/69	1 year approval	5/20/69	5/20/70	\$ 49,322	\$ 49,322	-0-			-0-		

A.I.D. CENTRAL RESEARCH PROGRAM (TA BUREAU)
Active Projects as of 6/1/70

Project Title Number and Monitor	Contractor, Contract Number	Research Locations	Date RAC Approved	Period Approved	Date Project Started	Estimated Project Com- pletion Date	Total Fund- ing Provided thru 6/30/69	Estimated FY 1969 Obligations	Funding Programmed FY 1970	FY 1970 P30/T Date cleared TA/RUR	Processing Obligated or Reservation Amount	Estimate FY 1971 Proj- ect Funding	Date for Further RAC Review and/or Extension Action	Date for FY Funding Required for Project
Agriculture and Fisheries														
19.	Soil fertility requirements to attain efficient productivity in the humid tropics. (A. Ayers, R. Gleason, TA/AGF)-505	Cornell Univ. csd 2990 (Dr. H. Drusdoff)	U.S. Puerto Rico	#26-4/2/69	5 year approval with first two years funding; RAC will review subsequent requirements	6/30/69	6/29/74	\$379,816	\$379,816	-0-		\$250,000	April, 1971	
20.	Capital formation and technological innovation at the farm level in LDCs. (J.T. Shields, TA/AGF)-506	Research Found. Ohio St. Univ. csd 2801 (Dr. D. Boyne)	U.S. Brazil	#26-4/2/69	5 year approval-2 yr. funding Extension subject to further RAC Review	6/30/69	6/29/74	\$227,158	\$227,158	\$286,201	4/13/70	\$206,201	-0-	April, 1971
21.	Determination of research needs of soils of the Tropics. (A. Ayers, R. Gleason, TA/AGF)-504	Agricultural Board, Nat. Academy of Sciences Dr. N. Brady csd 2805	U.S.	#26-4/2/69	18 month approval	6/30/69	12/29/70	\$124,200	\$124,200	-0-		-0-	September, 1970	
22.	Comprehensive review for research on Cassava. (Van Haeften TA/AGF)-516	Univ. of Georgia csd 2497	U.S.	#26-4/2/69	24 month approval	6/15/69	6/15/71	\$ 74,000	\$ 74,000	\$ 11,000		-0-	April, 1971	
23.	Survey and analysis of the problems of cattle feeding systems & nutrition in the wet/dry tropics of L.A. (N. Konnerup, TA/AGF)-514	Dr. C. Hendershott Univ. of Florida csd 2498 Dr. C.B. Ammerman	U.S. Latin Amer.	#26-4/2/69	24 month approval; RAC to Review Subsequent Level	6/30/69	6/29/71	\$ 53,200	\$ 53,200	\$124,000		-0-	April, 1971	
24.	Development of Conservation Process-Fish-By-Products. (J. Gordara, TA/AGF)-486	Ancarian Univ. (Peru) csd-1904	Peru	#20-2/67	3 year approval	4/30/68	4/30/71	\$ 61,000	-0-	-0-		\$ 32,000	March, 1971	
25.	Inheritance and Improvement of Protein Quality and Content in Maize. (A. Ayers, TA/AGF)	Purdue Univ. Lafayette, Indiana Contract in process	U.S.	#30-4/30/70	5 year Original Project 1st year funding	6/15/70	6/15/75	-0-	-0-	\$176,860		\$166,000		

A.I.D. CENTRAL RESEARCH PROGRAM (TA BUREAU)
Active Projects as of 6/1/70

Project Title Number and Monitor	Contractor, Contract Number	Research Locations	Date RAC Approved	Period Approved	Date Project Started	Estimated Project Completion Date	Total Fund ing Provided Thru 6/30/69	Estimated FY 1969 Obligations	Funding Programmed FY 1970	FY 1970 P/O/T Processing Date Cleared TA/RUB	Obligated or Reservation Account	Estimate FY 1971 Project Funding	Date For Further RAC Review and/or Extension Action	Date For FY Funding Required For Project
26	Agronomic - Economic Research on Tropical Soils (A. Ayers, TA/AGF)	North Carolina State Univ. at Raleigh (contract in process) Dr. R. J. McDjackan and Dr. M. D. Toussaint	#30-4/30/70	5 year original project 18 months funding	6/15/70	6/15/75	-0-	-0-	\$323,000		-0-			
27	Impact of New Agricultural Technology on Rural Employment-Income (D. Eaton, TA/AGF)	Cordell Univ. (contract in process) Dr. E. T. Merz and Dr. Bauman	#30-4/30-70	3 year original project 1st year funding	6/15/70	6/15/73	-0-	-0-	\$150,000		\$213,000			
Sub Total Agriculture (Rounded):									\$4,637,000					

A.I.D. CENTRAL RESEARCH PROGRAM (TA BUREAU)

Active Projects as of 6/1/70

6.

Project Title Number and Monitor	Contractor Contract Number	Research Locations	Date REC Approved	Period Approved	Date Project Started	Estimated Project Completion Date	Total Funding Provided thru 6/30/68	Estimated FY 1969 Obligations	Funding Programmed FY 1970	FY 1970 P/O/T P Date Cleared TA/RUR	Processing Obligated or Reservation Amount	Estimate FY 1971 Project Funding	Date for Further RAC Review and/or Extension/Action	Date FY 1970 Funding Required for Project
Health														
1. Malaria eradication research (in support of worldwide program). (H. Griffith, TA/H-033)	Communicable Disease Ctr USPHS, HEM	U.S. (Georgia)	#1-1962 #8-2/64 #12-9/66	8 1/2 year original project (as amended) 2 year extension (increased funding level)	1/17/62	6/30/72	\$2,788,295	\$497,068	\$607,026	4/3/70	\$607,026	\$669,000		
2. Malaria immunity and vaccination. (N. Griffith, TA/H-453)	Univ. Illinois U.S. csd 1432 (Dr. P. Silverman)	U.S.	#17-3/65 #23-3/68	5 year original project (as amended)	6/30/66	6/30/71	\$979,633	\$287,143	\$486,000	3/25/70	\$486,000	\$500,000	Project Extension/Extension April 1971	
3. Serologic diagnosis of malaria. (N. Griffith, TA/H-465)	Communicable Disease Ctr USPHS, HEM RA (HA) 5-65 (Dr. W.A. Rodgers)	U.S.	#21-6/67 #28-4-69 #28-10-69	5 1/2 year original project (as amended)	4/1/67	12/31/72	\$ 97,525	\$ 66,000	\$ 84,000	4/15/70	\$ 84,000	\$127,000		
4. Central America malaria research station (H. Griffith, TA/H) 474	Communicable Disease Ctr, USPHS, HEM RA (HA) 2-67 (Dr. D. Pletsch)	U.S., El Salvador	#12-4/68 #21-6/67	5 1/3 year original project (as amended)	3/1/67	6/30/72	\$891,835	\$416,835	\$437,227	4/15/70	\$437,227	\$500,000		
5. Functional analysis of health center activities in developing countries. (L. Howard, TA/H)-429	Johns Hopkins Univ. AID/csd 832 (Dr. C. Taylor)	India, Taiwan	#8-1/64 #21-6/67	5 years original project (as amended)	6/24/65	6/23/70	\$553,590	-0-	-0-			-0-		completion
6. Inter-American investigation of mortality in infancy and childhood. (J. Stockard, TA/H)-455	Pan American Health Organ. csd-1481 (Dr. Ruth Puffen)	U.S. & 8 LA Countries	#17-3-66 #22-10-67	5 1/2 year project (as amended)	6/30/66	12/31/71	\$851,291	\$31,291	\$128,771	4/1/70	\$128,771	\$ 88,000		not known
7. Definition of requirements and specifications for a water pump in LDCs. (A.H. Holloway, TA/H)-454	Battelle Mem. Inst. csd 1434 & 2174 (Dr. W. Frick)	U.S.	#17-3/66 #20-5/68	48 months original project (as amended)	6/30/66	6/30/70	\$ 68,268	-0-	-0-			-0-		completion

A.T.D. CENTRAL RESEARCH PROGRAM (TA BUREAU)

Active Projects as of 6/1/70

Project Title Number and Monitor	Contractor, Contract Number	Research Locations	Date RAC Approved	Period Approved	Date Project Started	Estimated Project Com- pletion Date	Total Fund- ing Provided thru 6/30/69	Estimated FY 1969 Obligations	Funding Programmed FY 1970	FY 1970 FID/I Processing		Estimate FY 1971 Proj- ect Funding	Date for Further RAC Review and/or Extension Action	Date FY 1970 Funding Required for Project
										Date Cleared TA/RUR	Obligated or Reservation Amount			
Health														
8. Thailand malaria opera- tional research unit (M. Griffith, TA/H)-503	NCDC, U.S. PHS, HEW (Dr. M. Chin)	U.S. Thailand	#26-4/2/69	5 years	July, 1969	June, 1974	-0-	-0-	\$170,000	4/15/70	\$170,000	\$300,000		
	PASA RA 1-70													
9. Measurement of nutrient loss from the intestinal tract due to malabsorption (J. Stockard, TA/U)-508	N.P., USPHS HEW (Dr. J. H. Mey) PASA RA UR-9-69	U.S. Iran Pakistan Haiti Puerto Rico	#26-4/3/69	2 years	6/15/69	5/15/71	\$95,000	\$95,000	\$105,000		\$105,000	-0-	April, 1971	
10. Development of methodology for the determination of design capacities of small water supplies. (A. Holloway, TA/U)-507	Univ. of N. Carolina (Dr. D.A. Okun) CSU-2494	U.S. Guatemala	#25-4/3/69	2 years	6/30/69	6/30/71	\$39,935	\$39,935	-0-			-0-	April, 1971	
11. Investigation of schisto- soma. (A. Holloway, TA/ H)-513	Univ. of N. Carolina CSU-2487	U.S.	Due to low level, RAC not required amendment letter	Review not required 9 months; letter	June, 1969	May, 1971	\$5,961	\$5,961	-0-			-0-	Not Known	
									\$2,018,000					

A. I. D. CENTRAL RESEARCH PROGRAM (IA BUREAU)

Active Projects as of 5/1/70

Project Title, Number and Monitor	Contractor Contract Number	Research Locations	Date RAC Approved	Period Approved	Date Project Started	Estimated Project Completion Date	Total Funding Provided thru 6/30/68	Estimated FY 1969 Obligations	Funding Programmed FY 1970	FY 1970 P10/T Processing		Estimate FY 1971 Project Funding	Date for Further RAC Review and/or Extension Action	Date FY 1970 Funding Required for Project
										Date Cleared TA/RUR	Obligated or Reservation Amount			
1. Nutrition/Child Feeding Extending protein concentrates for child feeding by addition of inexpensive simple nitrogen sources. (I. Hornstein, TA/N)-458	Massachusetts Inst. of Technology INCAP, csd-1441 (Dr. N. Srinivashw)	U.S. Guatemala	#17-3/66 #28-10/69	4 year original project (as amended)	6/30/66	12/31/70	\$154,967	\$30,000	\$30,070		\$30,070	-0-	completion	
2. Clinical evaluation of new protein sources for the prevention of malnutrition. (I. Hornstein, TA/N)-459	British Amer Hospital, Lima, Peru csd-1433 (Dr. G. Graham)	U.S. Peru	#17-3/66	5 year original project	6/27/66	6/25/71	\$186,000	\$15,000	\$74,534	3/25/70	\$74,534	\$ 75,000	April, 1971	
3. Effects of extrusion processing variable on the nutritional quality of inexpensive high-protein food mixtures. (I. Hornstein, TA/N)-482	Univ. of Cal Univ. of Chile csd-1587 (Dr. C.O. Chichester; Prof. Alvaro Pinto)	U.S. Chile	#20-2/67	3 1/2 year original project (Project enlarged to consolidate technical related program in May, 1969)	6/30/67	12/29/70	\$187,500	\$49,700	\$58,180	3/5/70	\$58,050	\$ 21,000	September, 1970	
4. Lysine enrichment of wheat flour. (I. Hornstein, TA/N)-483	British Amer Hospital, Lima, Peru csd-1805 (Dr. G. Graham)	Peru	#20-2/67	3 year original project (as amended)	6/27/67	3/31/71	\$101,016	\$35,016	-0-			-0-	September, 1970	
5. Improving the nutritive value of cereal-based foods. (I. Hornstein, TA/N)-481	Kansas State Univ. csd-1586 (Dr. M. Hoover)	U.S. India Pakistan Morocco	#20-2/67	5 year original project	6/30/67	6/29/72	\$349,566	\$69,995	\$177,018	3/27/70	\$177,018	\$300,000		
6. Development of soy-based foods of high nutritive value for use in the Philippines. (I. Hornstein, TA/N)-461	Cornell Univ csd-1815 Dr. D. Hand; Dr. K. Steinkraus	U.S. Philippines	#17-3/66	3 year original project (as amended)	6/30/67	12/31/70	\$411,000	-0-	-0-			-0-	no extension	
7. Nutritional improvement of rice by fortification synthetic amino-acids-vitamins. (I. Hornstein, TA/N)-492	Harvard School of Public Health, Boston csd-2170 (Dr. F.J. Stare)	U.S. The land	#24-5/68	3 year original project (as amended)	6/30/68	6/30/71	\$228,076	-0-	-0-			-0-	April, 1971	

A.L.D. CENTRAL RESEARCH PROGRAM (1A BUREAU)

Active Projects as of 6/1/70

Project Title, Number and Monitor	Contractor Contract Number	Research Locations	Date RAC Approved	Period Approved	Date Project Started	Estimated Project Com- pletion Date	Total fund- ing Provided thru 6/30/69	Estimated FY 1969 Obligations	Funding Programmed FY 1970	FY 1970 P.O./I Processing		Estimate FY 1971 Pro- ject Funding	Date for RAC Review Extension	Further Action and/or	Date FY 1970 Required for	Funding Project	
										Date cleared TA/RUR	Amount						
Nutrition/Child Feeding																	
8. A practical approach to the Rutgers Univ. U.S. #26-4/3/69 Approved for 1 Year 6/30/69 6/29/70 \$23,360 \$23,360 -0-	lysine and tryptophan sup- plementation of lime- treated corn. (H. Forman, TA/N)-500	Guatemala									-0-		not known				
9. Relation of Dietary Mass. Inst. U.S. #29-3/5/70 Original Project Approved 5/15/70 6/15/73 -0- -0- \$80,674 5/16/70 \$90,675 \$97,000	Caloric Intake to Protein Utilization in man (L. Hornstein, TA/N)-519	of Tech. (contract in process) Dr. Scrimshaw, Dr. Young		for 3 years													
10. Coconut Protein Products For Use in Foods	Texas A & M University (contract in process) Dr. K. Nallal	U.S.	#30-4/30/70	Original Project for two years; funding restricted to U.S. studies	6/15/70	6/15/72	-0-	-0-	\$124,000	5/21/70	\$124,000	\$226,000					
									Nutrition Sub Total								
									\$505,000								

A. I. D. CENTRAL RESEARCH PROGRAM (TA BUREAU)
Active Projects as of 6/1/70

Project Title, Number and Monitor	Contractor Contract Number	Research Locations	Date RAC Approved	Period Approved	Date Project Started	Estimated Project Completion Date	Total Fund- ing Provided thru 6/30/69	Estimated FY 1969 Obligations	Funding Programmed FY 1970	FY 1970 P10/T Processing		Estimate FY 1971 Proj- ect Funding	Date for Further RAC Review and/or Extension Action	Date FY 1970 Funding Required for Project
										Date Cleared TA/BUR	Obligated or Reservation Account			
<u>PPC/Research</u>														
<u>Education/Manpower</u>														
<u>Planning</u>														
1.	Mathematics curriculum development in Africa. (J. Faulhaber, AFR/TAC 037)	Edu. Svcs. Inc. (now called) Edu. Dev. Ctr. csd-1567 (Reps. 21 AFE 24) (Dr. H. Bradley)	Ethiopia, Ghana, Kenya, Liberia, Malawi, Nigeria, Uganda, Zambia, Tanzania, Sierra Leone	#1-5/62 #8-64 #12-4/65 #20-2/67	6 1/2 year original project (as amended) 1 year letter amendment	5/31/62 6/30/70	\$2,857,375	-0-	-0-			-0-	To be assumed by African Bureau funding	
2.	Research and development in beginning science curricula for English speaking tropical Africa. (J.S.; Dr. J. Goldstein) Fabur, AFR/TAC-428	Edu. Dev. Ctr. AID/csd 772 (Dr. R. Robbins; Dr. J. Goldstein) Sch. of Work- shop)	Ghana, Kenya, Liberia, Malawi, Uganda, Sierra Leone, Tanzania, Zambia, Nigeria	#11-2/65 #17-3/31/66 #21-6/67 #26-4/69	4 1/2 year project (as amended) 2 year extension	2/17/65 6/30/71	\$2,177,382	\$130,035	\$559,000	3/13/70	\$559,000	-0-	Africa Bureau Assumption (After FY 1970)	
3.	Practical Use of cost analysis to improve education planning and efficiency. (N. Herve, PPG/POL/SNAD)-490	Int'l Inst. for Edu. Planning, csd 1950 (P. H. Corbe)	Paris	#23-3/68 #26-4/69	2 year original project	6/28/68 6/27/70	\$ 173,920	\$ 73,920	-0-				Not Known	

A.I.D. CENTRAL RESEARCH PROGRAM (TA BUREAU)
Active Projects as of 6/1/70

Project Title Number and Monitor	Contractor Contract Number	research Locations	Date RAC Approved	Period Approved	Date Project Started	Estimated Project Com- pletion Date	Total Fund- ing Provided thru 6/30/69	Estimated FY 1969 Obligations	Funding Programed FY 1970	FY 1970 P/O/T Processing Data Cleared TA/RJR	Estimated FY 1971 Proj- ect Funding	Date for Further RAC Review and/or Extension Action	Date FY 1970 Funding Required for Project
Institutional/Social Development													
1. Implementation of Title IX objectives (P.N. Lyman, PPC/POL/TIXD)-495	Northwestern Univ., AID/csd 2236(L. Adelman)	U.S.	#25-11/68	19 month original project	2/3/69	9/1/70	\$ 80,300	\$ 89,300	-0-		-0-	Not Known	
2. Participation patterns in modernizing societies (P.N. Lyman, PPC/POL/TIXD)-516	Harvard Univ. AID/csd-2502 M. Nelson	U.S., from Philippines, Pakistan and Brazil (tentative)	#27-5/69	3 year original project	6/30/69	6/30/72	\$173,000	\$173,000	-0-		\$198,000	Annual Progress Report September, 1970	
Program/Planning/Economic Studies													
1. Development of planning and planning assistance criteria. (M. Roemer, PPC/POL/PPD)-620	Nat. Planning Assoc. AID-Repas-9 (Dr. D. Paauw)	Philippines Thailand	#2-5/62 #11-2/65 #19-9-66	8 year original project (as amended)	6/22/62	8/30/70	\$2,223,440	-0-	-0-		-0-	no extension indicated	
2. Quantitative study of economic structure and growth. (F.G. Masson, PPC/POL/SWAD) 019	Yale Univ. AID/Repas 12 (Prof. L. Reynolds, Economic Growth Center)	U.S. & 21 countries	#12-4/65 #18-5/65 #20-2/67 #20-4/69	7 year original project (as amended) 1 year extension	6/28/62	6/28/70	\$1,856,045	-0-	-0-		-0-	no extension indicated	
3. Comparative studies of resource allocation & development policy. (C.J. Hamner, PPC/POL/SWAD)-476	Harvard Univ. AID-1543 (M. Falcon)	Pakistan India, Greece Turkey, Korea Latin Amer.	#20-2/67 #27-5/69	2 1/2 year original project 2 year extension	5/31/67	11/30/71	\$1,016,778	\$ 292,896	\$307,000		\$ 307,000 \$309,000	Not Known	
4. Import substitution and economic development. (C. Michalopoulos, PPC/POL/PPD)-426	Williams Coll. AID/csd-736 (Dr. J.H. Power)	Global U.S.	#9-6/64 #26-4/69	4 year original project extension to 6/30/69 issued by Amendment; 3 year extension thereafter.	12/31/64	6/30/72	\$ 229,590	\$ 56,291	\$ 60,000	3/6/70	\$ 60,000 \$ 70,000		
5. The growth and development effects of food aid shipments under the Food for Peace Act. (A. Gayoso, PPC/POL/SWAD)-491	Iowa State U. AID-2163 (E.O. Heady, L.Y. Hayer)	U.S. Global	#24-5/68	3 year original project	6/29/68	6/28/71	\$ 210,000	-0-	\$120,000		\$ 120,000 -0-	April, 1971	

IA.I.D. CENTRAL RESEARCH PROGRAM
Active Projects as of 6/1/70

Project Title Number and Monitor	Contractor Contract Number	Research Locations	Date RAC Approved	Period Approved	Date Project Started	Estimated Project Com- pletion Date	Total Fund- ing Provided thru 6/30/69	Estimated FY 1969 Obligations	Funding Programmed FY 1970	FY 1970 P/O/T Processing Date Cleared TA/RUF	Estimated or Revised Amount	Estimate FY 1971-Proj- Funding	Date for Further RAC Review and/or Extension Action	Date FY 1970 Funding Required for Project
6. Program/Planning/Economic Studies Comparison of Indian real Univ. of per capita income and cur-Pennsylvania	csd-2481 (I. Kravits) (ECarter, PPC/POL/PPD)-50	U.S. India	#26-4/3/69	18 month approval	6/16/69	12/15/70	\$ 31,433	\$ 31,433	-0-		-0-		September, 1970	
7. Employment & Unemployment in the LDC's (F. Nasson, PPC/ POL/SWAD)-511	Yale Univ. Economic Growth Ctr. csd-2482 (G. Ranis)	India, Korea Columbia East Africa	#27-5/27/69	3 year original project	6/30/69	5/30/72	\$487,000	\$487,000	-0-		\$356,000			
8. Exchange Control, Liberalization, and Development (N. Buzmer PPC/POL)- 520	Nat. Bureau of Economic Research (contract to Process) J.N. Bhagwat Anne Krueger	U.S. Overseas Sites to Be Selected	#29-3/6/70	30 months Original Approval	6/15/70	12/31/72	-0-	-0-	\$128,000	5/19/70	\$128,000	\$250,000		
Sub Total PPC Projects									\$1,174,000					
Grand Total Non Population Research Projects									\$8,384,000					
Program Support Costs									\$ 616,000					

A.I.D. CENTRAL RESEARCH PROGRAM (TA BUREAU)
Active Projects as of 6/1/70

	Project Title, Number and Monitor	Contractor Contract Number	Research Locations	Date RAC Approved	Period Approved	Date Project Started	Estimated Project Completion Date	Total Funding Provided thru 5/30/69	Estimated FY 1969 Obligations	Funding Programmed FY 1970	FY 1970 P O/T Processing Date cleared TA/HR	Obligated or Reservation Amount	Estimate FY 1970 Project Funding	Date for Further RAC Review and/or Extension Action	Date FY 1970 Funding Required for Project
1.	Population Research on family planning Family Planning Evaluation Ctr. (R.T.Ravenholt,TA/POP)-478	Pathfinder Fund,csd-1578 (Dr. E.Kessel)	U.S.	#20-2/67 #25-11/68	3 year original project later amended 1 year	6/30/67	6/30/71	\$1,483,000	\$1,289,000	-0-			\$1,000,000	April, 1971	
2.	Evaluation studies of an international postpartum family planning program. (R.T.Ravenholt,TA/POP)-479	Population Council,csd 1665 (Dr. B. Berelson)	U.S. & 15 countries	#20-2/67	3 year original project 1 YEAR AMENDMENT	6/30/67	5/23/71	\$ 600,000	\$ 800,000	-0-			\$ 300,000	April, 1971	
3.	Research for development of once-a-month contraceptive pill. (S.T.Ravenholt, TA/POP)-493	Worcester Found.,Shawbury,Mass. csd-2169 (Dr. J.McCraken)	U.S.	#24-5/68	2 year original project	6/30/68	6/30/71	\$ 108,500	-0-	-0-			\$ 125,000	April, 1971	
4.	Determinants of human fertility patterns. (T.Merrick, TA/POP)-824	Rand Corp. csd 2151 (T.P.Schulze)	Taiwan Pakistan Philippines Puerto Rico	#23-3/68	18 month original projects amended by letter	6/20/68	9/30/70	\$ 142,925	-0-	-0-			-0-	Not Known	
5.	Reversible sterilization. M.D.Lieberman,TA/POP)-498	Univ. of N. Carolina,csd 2504 (Dr. J. Hulka)	U.S.	#25-11/68	3 year original project	5/15/69	5/15/72	\$ 78,731	\$ 78,731	-0-			\$ 300,000		
6.	Corpus luteum research. (R.T.Ravenholt,TA/POP)-509	NIH/MICHD PMSA RA-RA-569	U.S.	#26-4/3/69	3 year original project	5/7/69	5/7/72	\$1,509,777	\$1,509,777	\$ 52,975		\$ 52,975	\$1,000,000		
7.	Epidemiology of the outcome of pregnancy. (H.D.Lieberman, TA/POP)-496	Johns Hopkins Univ.,csd 2226 (Dr. P.Harper)	U.S. Taiwan	#25-11/68	3 year original project	1/15/69	1/15/72	\$ 193,855	\$ 193,855	-0-			\$ 250,000		
8.	Determinants of family planning attitudes and practices Phase II (H.Frederiksen, TA/POP)-497	Harvard Univ. csd2478 (Dr. D. Heer)	U.S. Taiwan	#25-11/68	3 year original project	6/7/69	6/7/72	\$ 106,105	\$ 106,105	-0-			\$ 114,000		
9.	Utilization of family planning services. (M.D.Lieberman, TA/POP)-510	Wake Forest U. csd2512 (C.E.Vincent)	U.S.,Central American, African & Asian sites under study	#26-4/2/69	3 year original project	6/30/69	6/30/72	\$ 262,000	\$ 262,000	-0-			\$ 400,000		

U.I.D. CENTRAL RESEARCH PROGRAM (TA BUREAU)
Active Projects as of 6/1/70

Project Title Number and Monitor	Contractor Contract Number	Research Locations	Date RAC Approved	Period Approved	Date Project Started	Estimated Project Completion Date	Total Funding Provided thru 6/30/69	Estimated FY 1969 Obligations	Funding Programmed FY 1970	FY 1970 PI0/T Date Cleared TA/RUR	Processing Obligated or Reservation Amount	Estimate FY 1971 Project Funding	Date for Further RAC Review and/or Extension Action	Date FY 1970 Funding Required for Project
10. Contraceptive development pregnancy prevention per anti-progestational activity. (R. Ravenholt-TA/POP)-512	Population Council, csd-2891 (S.J. Segal)	Worldwide	#26-4/2/69	5 year original project	5/15/69	5/15/74	\$3,000,000	\$3,000,000	-0-			-0-		
11. A theoretical inquiry into the determinants of fertility. (T. Merrick, TA/POP)-517	Rand Corp. (I. Schultz)	U.S.	#27-5/21/69	2 year original project (Phase I)	12/69	12/71	-0-	-0-	\$ 326,445		\$ 326,445	-0-	September, 1971	
12. Development of Inhibitors of L-H Releasing Factor as Contraceptive Factors (J. Speidel TA/POP)-518	Salk Foundation (Contract in Process) R. Guillemin	U.S.	#20-3/6/70	3 years original Approval	6/15/70	6/15/73	-0-	-0-	\$2,254,550	4/15/70	\$2,254,550	-0-		
13. Prostaglandin and Other Research for Development of Contraceptives (J. Speidel, TA/POP)-520	Worcester Foundation (Contract in Process) Dr. C. Lloyd	U.S.	#29-3/6/70	3 years original Approval	6/15/70	6/15/73	-0-	-0-	\$2,980,000	5/19/70	\$2,980,000	-0-		
14. Research on Safety of Contraceptive Steroids (J. Speidel, TA/POP)-520	Southwest Foundation for Research & Education (Contract in Process) J.M. Giedt	U.S. Mexico	#30-4/29/70	3 year original Approval	6/15/70	6/15/73	-0-	-0-	\$ 921,000	5/21/70	\$ 921,000	-0-		
							Sub Total Population (Rounded)		\$6,535,000					
Other Newly Approved Projects: (Awaiting Possible FY 1970 Emend.)														
Combined UD-Prophylactic-Contraceptive	University of Pittsburgh J. C. Gauder	U.S. Mexico	#30-4/29/70	3 year original Approval										
Inter Migration and Urban Population Pressures in Latin America	University of Wisconsin Prof. Flynn, Havens, Brown	U.S. CRILE Columbia	#30-4/29/70	2 year original Approval										
Population and Family Planning in Peru	University of Florida J. Sanders	Peru	#30-4/29/70	Probable 3 year Project When Formalized										
Development of IUD and Controlled Release Contraceptives	Memorial Inst. J. Levy, D. Sawyer	U.S.	#30-4/29/70	3 year Project-1 year Funding and RAC Review After 9 months										

TAB-Research Projects

SUMMARY INFORMATION
TECHNICAL ASSISTANCE PROJECTS
CENTRALLY FUNDED
JUNE 1970

TAB-Technical Assistan-
ce Projects

OFFICE OF AGRICULTURE AND FISHERIES
TECHNICAL ASSISTANCE BUREAU
AGENCY FOR INTERNATIONAL DEVELOPMENT

1. Project Title: Seed Processing and Testing
Contractor: Mississippi State University
Contract No.: AID/W-607
Project No: 931-11-130-203
Starting Date: 1969

This project provides technical assistance in seed improvement, including seed technology, multiplication, processing, certification, storage and utilization. In addition, training courses are held and handbooks, designed for use in the courses, are written. An outstanding one for use in overseas programs is the Seed Processing and Handling Handbook. Under this project, technical advice and engineering plans for plant layout and operation have been supplied to over thirty countries.

2. Project Title: Grain Drying and Storage

Contractor: Kansas State University

Contract No: AID/csd-1588

Project No: 931-11-150-786

Starting Date: 1967

Through this project, Kansas State University marshalls resources available in the U.S. to assist LDCs in reducing losses of food grains and food grain quality during post-harvest drying, storage, handling and transport. KSU staff employees and consultants provide assistance on the development, review and evaluation of projects. Teams have gone to over eight countries and reports have been submitted on their problems.

Recent breakthroughs in increased cereal production are causing increased activity under this project.

3. Project Title: Plant and Seed Materials for the Development of Potential Crops in LDCs

Contractor: Agriculture Research Service, U.S. Department of Agriculture

Contract No: PASA WOH(AF) 2-69

Project No: 931-11-130-828

Starting Date: 1955

This project provides LDCs with technical advisory services relative to crop varietal improvement programs. It also furnishes experimental quantities of improved seeds and plant propagating materials from the USDA seed bank, private stocks and from experimental research. Varieties of vegetable field crops and fruits introduced under this project have performed well in the LDCs, and long costly breeding programs have been avoided. A continuous reporting system is being set up on this material to keep AID/W and the Missions informed on the response of these varieties in the several ecological areas.

4. Project Title: International Maize and Wheat Improvement Center
Mexico (CIMMYT)

Contractor: CIMMYT

Project No: 931-15-110-840

Starting Date: February, 1969

CIMMYT was founded by the Rockefeller Foundation and the Mexican Government to conduct research, development and training programs for increased production of corn and wheat. Its success attracted other countries in Latin America, and in 1968 the Ford Foundation became a co-sponsor of the Center. Through bilateral and regional arrangements, CIMMYT now has programs with about fifty countries throughout the world. A.I.D. cooperates in the expanded activities of CIMMYT through a Grant monitored by TA/AGF.

The Center assists nations in: (a) the solution of technical problems, especially those of an international nature requiring in-depth interdisciplinary research efforts; (b) the training of scientific personnel; (c) the initiation and elaboration of international cooperation research; (d) the collection and dissemination of biological materials and technical information; (e) the development of research, extension and production programs in participating countries.

5. Project Title: Support to International Rice Research Institute
Contractor: International Rice Research Institute
Contract No: AID/csd 2176
Project No: 931-11
Starting Date: 1968

The intent of the project is to increase IRRI's capacity for research, training and technical assistance by adding facilities for up to five senior scientists (in entomology, plant pathology, agronomy, economics and rice production training). The rapid spread of high yielding rice varieties by the Institute has led to more requests than can be met with existing facilities. Thus, A.I.D needs in the rice producing countries of the Far East and South Asia could not be filled. In FY 1970, the project was transferred to the East Asia Regional Bureau.

6. Project Title: Fertilizers, Technical Assistance (Surveys, Training and Consultation)

Contractor: Tennessee Valley Authority

Contract No: WOH (QA) 6-69

Project No: 931-11-190-832

Starting Date: 11/16/65

This project is addressed to fertilizer needs in the LDCs. The A.I.D. fertilizer policy, developed in combination with TVA, authorized TVA to establish an International Fertilizer Development staff. This staff meets A.I.D.'s requirements for technical assistance, research and training. The activity is characterized by a flexibility that encourages industry, USDA, land-grant universities and financial institutions to respond to fertilizer needs in the LDCs. Increased fertilizer plant capacities, new and improved marketing and distribution systems, new fertilizer intermediates, new and higher analysis materials, and improved introduction practices are the results. These factors, coupled with new and improved seed varieties, have increased food crop production in the LDCs.

7.; Project Title: Preparation of , Manuals on the Control of Plant and Animal Pests

Contractor: National Academy of Sciences

Cooperating
Sponsors: U.S. Department of Agriculture, U.S. Department of Interior (Bureau of Sport Fisheries and Wildlife) Rockefeller Foundation, National Agricultural Chemicals Association

Contract Ho: AID/csd-760

Project No: 931-11-130-736

Starting Date: March, 1965

Under this project, six manuals on the principles of controlling pests and diseases of plants and animals have been prepared. They are as follows:

Volume 1 - Plant-Disease Development and Control

Volume 2 - Weed Control

Volume 3 - Insect-Pest Management and Control

Volume 4 - Control of Plant-Parasitic Nematodes

Volume 5 - The Vertebrates That Are Pests: Problems and Control

Volume 6 - Effects of Pesticides on Fruit and Vegetable Physiology

All except Volume 5 have been published and distributed to the USAIDs and the host countries, universities and institutions.

Volume 5 is scheduled for publication next month.

Many USAID Missions, in response to circular airgrams, have indicated that the manuals constitute important reference works for the developing countries.

8. Project Title: Textbook on Neotropical Phytopathology

Contractor: North Carolina State University

Contract No.: AID/csd-1149

Project No.: 931-11-130-760

Starting Date: 1966

Under this project, Dr. F. L. Wellman is summarizing all available phytopathology literature and combining it with his own extensive research findings, which stem from 28 years in the tropics and sub-tropics. The manuscript contains the geography and potential of regions, comparisons of zones and historical background. Dr. Wellman is working now on the final three chapters on pest control. Upon A.I.D.'s approval of the manuscript, it is to be published commercially by Scarecrow Press. The resulting textbook is expected to play an important part in crop improvement specialization for A.I.D., USDA and the universities.

9. Project Title: Fish Culture in the LDCs

Contractor: Auburn University

Contract No: AID, csd-1581

Project No: 931-11-180-787

Starting Date: 1968

The project attempts to meet the world need for a cheap source of protein by improved fish culture. Auburn, a world center for inland fish culture, is planning regional centers on training, research and demonstration. Initially, the project has sought to improve existing pond and brackish water fisheries in the Philippines and to survey developments in other countries. Nine surveys have been completed and recommendations made to the participating countries. New feeding and disease control methods are being developed and new methods of fish rearing are being studied. Several additional countries now have requested assistance and Auburn is prepared to comply under Mission Task Orders. It is anticipated that the level of activity will rise as the potentiality of the project for improving nutritional quality of diets is recognized.

10. Project Title: Purchase and Testing of Fish Protein Concentrate

Contractor: Alpine Marine Protein Industries, Inc., Bureau of
Commercial Fisheries, and University of California

Contract No: AID/csd-913; WOH(IE) 11-68; csd-2274

Project No: 931-11-590-805; 931-11-590-845

Starting Date: 1968

The purpose of the project is to test the acceptability of Fish Protein Concentrate (FPC) as a nutritive additive, as well as to test its storage life and packaging requirements under various climatic and other conditions.

Alpine Marine supplies the FPC, and the Bureau of Commercial Fisheries has responsibility for inspecting the plant, as well as for analysis of the final product to assure conformity with contract specifications. Continuation of the project depends on experience with initial deliveries and demand generated by use of FPC.

11. Project Title: Fish Protein Concentrate Feasibility Studies
(Chile and Korea)

Contractor: General Oceanology, Cambridge, Massachusetts

Cooperating
Sponsor: CORFO and Ministry of Health, Government of Chile

Contract No: AID/csd-2158

Project No: 931-11-590-816

Starting Date: 1968

Under the project, two countries (Chile and Korea) were selected for FPC feasibility studies. The purpose was to determine the feasibility for establishing FPC industries there. The contractor has focused upon three principal areas: (a) supply and cost analysis; (b) market analysis; and (c) product development and testing. Due to lack of raw material, the Korean study was discontinued and the report covers only the market and supply analysis phases. The Chilean study moved forward on all three phases and demonstrated the feasibility of establishing an FPC plant in that country. If the plant actually is established, it will be the first one of commercial size undertaken in the developing world and will go a long way to putting FPC in diets as a significant source of protein.

12. Project Title: Fish Protein Concentrate Feasibility Study (Morocco)

Contractor:

Contract No:

Project No:

Starting Date: 1970?

TA/AGF is planning a study to determine the economic feasibility of Fish Protein Concentrate production in Morocco.

This project has not been implemented as yet.

13. Project Title: Technical Assistance for Food Marketing

Contractor: U.S. Department of Agriculture, Foreign Economic
Development Service

Contract No: To be negotiated

Project No:

Starting Date: FY 1971

The project will provide technical services to A.I.D. Regional Bureaus, USAID Missions and host governments in analyzing agricultural problems and developing plans for marketing agricultural commodities. All phases will be covered including legislation, transportation, storage, grading, packaging and prices, as a means of increasing food production and consumption, and augmenting farmers' income.

14. Project Title: AID/CIC Workshop and Seminar

Contractor: Purdue Research Foundation

Contract No: AID/csd-2458

Project No: 931-11-110-855

Starting Date: July-August, 1969

The Workshop and Seminar brought together a select group of institutional development theoreticians to examine conceptual and empirical knowledge in institution building overseas. The Workshop expanded understanding of the role of the agricultural college and evaluated alternative solutions to problems encountered at various stages of institutional activity. A major thrust of national programs has been directed toward bringing about essential changes in educational research institutions. The Workshop and Seminar helped provide more specific guidelines on institution building.

15. Project Title: Asian Agricultural College and University Seminar
Contractor: North Carolina State University
Contract No: Being Negotiated
Project No:
Starting Date: 1970

Under this project, a travelling seminar is to be conducted for agricultural college and university leaders, as well as for Government officials from fourteen Asian countries. It will seek to improve management, training and research functions and to initiate a full exchange of experiences between the Asian agricultural colleges and universities.

An outgrowth of the AID-CIC Rural Development Research Project, the three-week seminar will include visits to about eight universities in Thailand, India and Pakistan. Consideration will be given, it is anticipated, to establishing an organization of Asian agricultural universities.

16. Project Title: Vanguard Program

Cooperating

Sponsor: Government of the Republic of China

Project No: 484-11-190-601

Vanguard (the International Technical Assistance Program of the Government of the Republic of China) was started in 1960. When, by 1967, requests for assistance exceeded GRC financial resources, the U.S. agreed to support it through PL-480 proceeds. Under the program, GRC has provided over 800 technicians to more than 23 countries. While the main thrust is on increased rice production, other commodities, such as vegetables, are included. Through the introduction of improved varieties, GRC technicians helped the Vietnamese to increase rice yields on demonstration farms, organized farmers' associations in the Philippines, and helped the Ivory Coast increase rice production.

This fiscal year TA/AGF transferred the project to the East Asia Bureau.

17. Project Title: Technical and Economic Evaluation of Processing
Fresh Coconuts for Production of Protein Foods

Contractor: Texas A&M University

Contract No.: AID/ea/84

Project No.: 931-11-190-864

The purpose of this project was to provide preliminary information leading to a research project on the development of the high analysis coconut protein flour. Coconuts are cultivated throughout the tropics, but are under-utilized as a source of protein foods because of inadequate knowledge on processing. Under this project, a food scientist and an engineer were assigned to assess the state of technological development and to study the physical characteristics of coconuts. The ultimate aim is a sound and economically viable approach to the commercial processing of fresh coconuts.

This fiscal year the project has been transferred within the Technical Assistance Bureau from the Office of Agriculture and Fisheries to the Office of Nutrition.

18. Project Title: Support to Centro Internacional de Agricultura Tropical (CIAT)

Contractor: CIAT

Project No.: 931-11-190-865

Starting Date: June, 1969

Through this project, A.I.D. supplements the contributions of the Ford, Rockefeller and Kellogg Foundations for the establishment of a new International Center for Tropical Research in Colombia. This funding is permitting the Center to broaden the scope of its planned activities, and to serve certain objectives of importance to A.I.D. It is planned to transfer this project to the Latin American Regional Bureau.

19. Project Title: Agricultural Statistics--Agricultural Census Training Program

Contractor: Census Bureau, Department of Commerce

Cooperating Sponsors: FAO and U.S. Department of Agriculture

Contract No: PASA-WOH(CA) 4-69

Starting Date: FY 1967

This program has the objective of training personnel to plan and conduct agricultural censuses in the LDCs. The Training Center is a joint effort of the Census Bureau, USDA and A.I.D. FAO assumes responsibility for its participants and the USAID Missions defray costs of those sponsored by A.I.D. TA/AGF funds are used for backstopping costs, including the salaries of three technicians. In FY 1970, it was determined that A.I.D. should continue to support the program but that it should revert to the A.I.D.'s Office of International Training.

Future courses will concentrate more on current agricultural surveys and on processing and utilizing census data.

20. Project Title: Agricultural Technical Support

Contractor: Various (U.S. Department of Agriculture, University of Florida, National Academy of Sciences, Volunteers for International Technical Assistance, Inc. and others)

Project No: 931-11-190-901

Starting Date: Renewed Each Fiscal Year

This project serves a complex of technical information activities. It enhances the technical inquiries services to the USAID Missions by procuring required information. It provides the USAID Missions systematically with copies of current significant books on agricultural development and technology. It sponsors the writing of manuscripts and the developing of new publications specifically for the A.I.D. program overseas. Such publications include the Handbook of Tropical and Sub-Tropical Horticulture, The Sprinkler Irrigation Guidebook and the Village Technology Handbook (now being published in revised form). In preparation, under a contract with the University of Florida, is a manuscript on Natural Vegetable Fibers.

21. Project Title: Agricultural Economics Seminars
Contractor: Agricultural Development Council
Project No: 931-11-140-887
Starting Date: June, 1970

The purpose of the project is to improve the conceptual and informational basis for agricultural policy determination through a series of seminars and workshops. The series will bring together leaders from government, private, academic and international institutions to share ideas and experiences related to the economic organizational and administrative problems in agricultural development.

The results, it is hoped, will contribute to a more efficient production in the agricultural sector with a higher standard of living for the people in the developing countries.

AGRICULTURE AND FISHERIES

General Technical Services -- Project Summaries

On-going Projects

1. Agricultural Statistics: Agriculture Census Training Program
2. International Agricultural Economics Seminars
3. Technical Assistance for Food Marketing
4. International Maize and Wheat Improvement Center, Mexico
5. AID-Procured Fish Protein Concentrate (FPC)
6. Inspection and Testing of AID-Procured FPC
7. Evaluation of Use of AID-Procured FPC
8. FPC Market Feasibility Study - Morocco
9. FPC Feasibility Study - Chile and Korea
10. Fertilizers, Technical Assistance : Surveys, Training and Consultation
11. Plant and Seed Materials for Development of Potential Crops in LDCs
12. Technical Assistance in Food Grain Drying, Storage, Handling and Transportation
13. Seed Processing and Testing
14. Increased Fish Production Through Improved Fish Culture in the LDCs
15. Agricultural Technical Support

Proposed Projects

16. Transportation Cost for Shipment of AID-Procured FPC
17. Development and Food Utilization of Soybeans
18. Feasibility Study for Plant Protection (Pest and Disease Control)

* * * * *

PROJECT SUMMARY

Major Type of Activity: Agricultural Economics Capability and Sector Analysis

Project Title: Agricultural Statistics - Agriculture Census Training Program

Contractor: Bureau of the Census

Contract Number: PASA TA(CA)4-69

Contractor Liaison Officer: Mr. Charles B. Lawrence, Jr.

Title: Ass't Dir. For International Statistical Programs

Project Number: 931-11-190-830

Present:	Termination Date	(000's dollars)		
		Obl.	Expend.:	Unliq.
Project Duration: Started	9/14/67	:	6/30/73	
Budget: a) Funds obligated through FY 69	:	258	258	0
b) Funded for FY 70	:	115	115	0
c) Funds requested for FY 71	:	60	60	0
d) Est. fund requirement FY 72	:	0	0	0

* Funding includes that provided by AID's Office of Institutional Training under a separate PASA.

TA/AGF Project Monitor: Mr. Daniel Blake

Purpose: This project is designed to train personnel to plan and carry out agricultural censuses in LDCs. Information on economic resources, production and productive capacity is a critical need in the agricultural sector. Also, census data are needed for use in planning economic and social development programs, apportioning government funds, and providing a factual basis for legislation concerned with the agricultural sector.

Description of Activity: The Bureau of the Census, AID and USDA have joined with FAO in a worldwide program to train statisticians from developing nations who are responsible for agricultural statistics in their countries. TA/AGF is providing funds for backstopping costs, including the salary of three technicians. FAO has assumed responsibility for travel and per diem allowances for FAO-sponsored participants and AID missions defray comparable costs of AID-sponsored participants. FAO has sponsored about two-thirds of the previous years' participants, most of whom come from countries where the U.S. maintains AID missions.

The objectives of this program are to train agricultural statisticians and technicians (1) in the skills needed to plan and conduct agricultural censuses and surveys, and (2) to organize and conduct training programs on agricultural statistics in their own countries, thereby introducing an important multiplier effect at the national level. The project is an 11-month two-part program with emphasis on practical agricultural statistics problems of developing countries rather than on theory as ordinarily taught in universities. Teaching materials are prepared by experienced agricultural statisticians, many of whom have had practical advisory experience in the LDCs.

Accomplishments: Thus far, 145 participants from 59 countries have been trained in practical census and survey methodology, in classroom courses and in practical field work.

Future Plans: For the term beginning in September 1970, the Bureau of the Census has been able to enroll only seven firm participants. Thus far, FAO-sponsored participants are only tentative. A decrease in previous years' funding, therefore, appears to be in order. Transfer of this activity to AID/OIT in FY 1972 has been and will be discussed further with that office.

TA/AGF:JAdelman:7/15/70; revised 8/19/70

PROJECT SUMMARY

Major Type of Activity: Key Problem Area - Agricultural Economics Capability and Sector Analysis

Project Title: International Agricultural Economics Seminars

Contractor: Agricultural Development Council Inc., New York

Contract Number: None

Contractor Liaison Officer: Dr. A. T. Mosher - Dr. A. Russell Stevenson
Title: President - Administrative Officer

Project Number: 931-11-140-887

Present: 73-3102173

Termination

Date

Project Duration:	Started	6/30/70	6/30/75	(000's dollars)		
				Obligated	Expend.	Unliquidated
Budget:	a)	Funds obligated through FY 69	:	0		
	b)	Funded for FY 70	:	200-	120	80
	c)	Funds requested for FY 71	:	'70'	130	20
	d)	Estimated fund requirement FY 72:	:	200.	190	30

TA/AGF Project Monitor: Dr. Arthur J. Coutu

Purpose: To link U.S. and foreign professionals by developing a research and training network in the field of agricultural economic development.

Description: This project is aimed at increasing research productivity and the relevance of graduate training programs through a series of seminars, workshops and experiments in curriculum development. The seminars and workshops on research will center on problem specification, theoretical and methodological conceptualization, and informational exchanges with concentration in areas of sector planning, rural employment and income distribution, water resource development, markets and trade, as well as allocation of resources to accelerate technological changes. An initial focus in curriculum development will be on agricultural policy in developing countries including issues of production incentives, land policy, administration of agricultural programs, and the interrelationships of population, employment and economic development.

During the first year, the seminars, workshops, and experiments in curriculum development will be programmed in the U.S. However, professional talent will be screened from research and educational establishments within the U.S. and abroad. Particular attention will be given to professional personnel presently working on U.S. AID agricultural economic research activities. Beginning in the second year, some activities will be programmed abroad in cooperation with regional bureaus and specific country missions.

Current Status: Since initiation of the program in July 1970, the contractor - Agricultural Development Council - has established a steering committee of Drs. Mosher, Eicher, Ruttan and Coutu; has announced the new program and requested interested participants to file an expression of interest. At the first meeting of the steering committee on August 11, the group identified seminar chairmen and selected tentative dates for three research areas including sector planning and rural employment, as well as markets and trade. A general steering committee meeting is planned on October 9, to structure the training component of the network.

TA/AGF:AJCoutu:8/18/70

PROJECT SUMMARY

Major Type of Activity: Key Problem Area - Marketing Systems

Project Title: Technical Assistance for Food Marketing

Contractor: Foreign Economic Development Service, FEDS/USDA

Contract Number: PASA TA(AJ)8-70

Contractor Liaison Officer: Dr. Martin Kriesberg

Title: Director, Program Planning and Evaluation

Project Number: 931-11-150-86

Present: 72-3102166

Termination

Date

Project Duration: Started 5/17/70 6/30/72 (000's dollars)

Comments: _____ Obl. Expend. Unliq.

Budget: a) Funds obligated through FY 69	:	†	-0-		
b) Funded for FY 70	:		16	12	4
c) Funds requested for FY 71	:		70	65	9
d) Estimated fund requirement FY 72	:		150	140	19

TA/AGF Project Monitor: Dr. Arthur J. Coutu

Purpose: This technical assistance project will provide for identification of marketing problems constraining growth, analyses of marketing functions and extension of these data in the form of specific recommendations. The program will be aimed at common marketing problems faced by LDCs which have introduced improved grain varieties and new technology, and at developing methodology for helping LDCs to plan technical assistance programs to overcome these problems.

Description: The initial focus of the program will be on high yielding grain crops. There are two phases, including identification and conceptualization of high-priority marketing problems, followed by in-country adaptation or specific problem solving of marketing activities that are restraining growth. The first phase involves a review of previous studies and experiences, developing through seminars and workshop procedures for identifying problems, and finally the completing of work plans on conceptualization and methodology in three or four countries.

In phase two, the technical assistance focus is planned on problem solving and developing host country institutional capacity on marketing issues. Beyond the service aspects relating to market news, grading and standards, regulatory actions, etc., phase two will center on issues such as price policies to minimize price fluctuations and to yield production incentives, feasibility studies on time, form, space relationships in considering alternative assembly systems, processing possibilities as well as alternative distribution systems.

Accomplishments: An agency-wide marketing seminar was held and the proceedings are now being processed. Additional workshops and seminars have been structured towards problem identification and other phase one activities.

Future Plans: Within phase one, linkages with the research seminar program in agricultural economics will be developed. Other linkages are planned between marketing components with on-going projects such as fertilizers with TVA, seed development with Mississippi State, grain handling with Kansas State, and factor or product-related projects. As more definitive structuring of the marketing activities develops, a more productive division of labor by commodities, farm inputs and marketing function will develop for the technical assistance activities.

TA/AGF:AJCoutu:sk:8/19/70

PROJECT SUMMARY

Major Type of Activity: Key Problem Area - Developing LDC Research
Capability

Project Title: International Maize and Wheat Improvement Center, Mexico

Contractor: CIMMYT (International Maize and Wheat Improvement Center)

Contract Number : AID/csd-2237

Contractor Liaison Officer: Dr. E. J. Wellhausen
Title: Director General

Project Number: 931-15-110-840

Present: 73-312002

Termination

Date

Project Duration: Started 1/16/69 Indefinite

(000's dollars)

		Obl.	Expend.	Unliq.
Budget:	a) Funds obligated through FY 69	425	-0-	425
	b) Funded for FY 70	525	750	200
	c) Funds requested for FY 71	400	500	100
	d) Estimated fund requirement FY 72	1,100	1,000	200

TA/AGF Project Monitor: Dr. Samuel Litzenberger

Purpose: CIMMYT, an international organization supported principally by Ford and Rockefeller Foundations, helps increase maize and wheat production in food deficit countries. This is carried out by a core of highly skilled scientists of various disciplines and nationalities. Most of CIMMYT's work is in cooperation with national programs, international agencies and organizations (FAO, UNDP, CIAT, etc.) and foundations. The purpose of this project is to expand CIMMYT activities to better service the LDC needs.

Description of Activity: AID's contributed funds enable CIMMYT to expand their programs in: international nursery testing of wheat; maize breeding and international testing of maize; establishing a system for data retrieval, analysis and interpretation to serve wheat and maize specialists worldwide; and training of agronomists from LDCs as a part of the program for extending technology.

Accomplishments: AID funded activities have enabled CIMMYT to: expand wheat nursery testing to 80 different sites in 45 countries; conduct extensive maize trials in Central America, the Andean Zone, South America, East Africa and the Middle East and Southeast Asia; expand the study of maize physiology; and train 39 production agronomists from 10 countries.

Future Plans: Intensify and expand present CIMMYT programs to meet LDC needs as described above and to strengthen the coordination of these activities with other AID crop improvement programs.

TA/AGF:TVTibbut:8/20/70

GENERAL TECHNICAL SERVICES (On-going)

GTS-5&6

PROJECT SUMMARY

Major Types of Activity: Externally Determined Program Emphasis

Project Title: AID Procured FPC Inspection and Testing of AID Procured FPC

Contractor: Alpine Marine Protein Industries, Inc. U.S. Department of Interior, Bureau of Commercial Fisheries (BCF)

Contract Number: AID/csd-1913 PASA WOH(IE)11-68

Contract Liaison

Officer: Mr. Henry DeSandre Mr. Jim Brooker
Title: President Chief

Project Number: 931-11-590-805 931-11-590-805
Present: 73-3180015 72-3107052

Project Duration: Started April 1968 May 1968 Termination Date November 1969
June 1970

Comments:	(000's dollars)		
	Obl.	Expend.	Unliq.
Budget: a) Funds obligated through FY 69 :	947	0	947
b) Funded for FY 70 :	(-640)	263	44
c) Funds requested for FY 71 :	0	44	-
d) Estimated Fund Requirement FY 72:	0	-	-

TA/AGF Monitor: Mr. J. B. Cordaro

These two projects (and the "Evaluation of Use of AID Procured FPC," summarized elsewhere) form the base for A.I.D.'s program to introduce FPC into the diets of the people of various countries.

Alpine's contract required that they provide A.I.D. 1,000 tons FPC meeting contract specifications in a timely manner. Their contract was partially terminated on November 26, 1969, for failure to deliver acceptable FPC. The terms and conditions of the termination settlement are still subject to discussions between A.I.D. and Alpine legal counsels. A.I.D. expects to obtain a quantity of FPC, namely that product produced prior to termination which meets all specifications and passes all tests. Although the exact quantities are not yet known, information presently available indicates that at least 170 tons will be available.

Until June 30, 1970 BCF provided inspection of Alpine's plant and production facilities and monitored the testing of all FPC produced to assure that it met the contract specifications. No further contractual arrangements are anticipated for these activities.

* Deobligated amount

** Of this amount, \$12,700 deobligated

TA/AGF:JBCordaro:7/15/70

GENERAL TECHNICAL SERVICES (On-going)
PROJECT SUMMARY

GTS-7

Major Types of Activity: Externally Determined Program Emphasis

Project Title: Evaluation of Use of AID Procured FPC

Contractor: University of California (Davis) Food Science Department

Contract Number: AID/csd-2274

Contract Liaison Officer: Dr. Eli V. Crisan
Title: Assistant Professor

Project Number: 931-11-590-845
Present:

Project Duration: Started June 1969 Termination Date _____

Comments: Requires extension without funds so we can get going.

	(000's dol.)	Obl.	Expend.	Unliq.
Budget: a) Funds obligated through FY 69	:	24	0	24
b) Funded for FY 70	:	20	34	10
c) Funds requested for FY 71	:	0	-	-
d) Estimated Fund Requirement FY 72:	:	0	-	-

TA/AGF Project Monitor: Mr. J. B. Cordaro

University of California provides an interdisciplinary team of experts to evaluate the use of the A.I.D. procured FPC. The experts are expected to provide guidance and assistance in the development of the programs to use and evaluate the FPC.

Regional and country programs were involved in the development and proposed implementation of these project concepts. With the cooperation and assistance of the Regional Bureaus and other functional offices, Guidelines were developed and sent to all Missions with Title II - PL 480 programs. Approximately 30 countries responded to these Guidelines and requested to use various quantities of FPC. This demand outstrips supply by a factor of 8. We have apprised the Missions of our problem, evaluated new submissions and suggested that programs be evaluated in Chile, Brazil, Nigeria, Thailand, El Salvador, Indonesia, Tunisia, Sierra Leone, Mauritius, Haiti, Turkey, Philippines, and several *other countries where FPC will be made available for familiarization purposes. *(Bolivia, Central Africa Republic, Congo, Israel, Korea, Laos, Lebanon, Paraguay, Rwanda and Taiwan.)

TA/AGF/JBCordaro:7/15/70

PROJECT SUMMARY

Major Types of Activity: Externally Determined Program Emphasis

Project Title: Fish Protein Concentrate (FPC)
Market Feasibility Study - Morocco

Contractor: (To be selected)

Contract No.: (N.A.)

Contract Liaison Officer: (N.A.)

Title: (N.A.)

Project Number: 931-11-590-866

Present: 73-3107003

Project Duration: Started (N.A.) Termination Date (N.A.)

Comments: Project expected to be implemented in FY 71 for one
year duration.

		Obl.	Expend.	Unliq.
		(000's dollars)		
Budget:	a) Funds obligated through FY 69:	-	-	-
	b) Funds for FY 70 :	-	-	-
	c) Funds requested for FY 71 :	-	-	-
	d) Estimated fund requirement FY 72:	200	140	60

TA/AGF Project Monitor: Mr. J. B. Cordaro

Morocco was one of three demonstration sites selected for an FPC feasibility study. AID has worked with UNIDO, UNFAO, and UNDP to develop an overall FPC project in Morocco. The expected end result should be a unique cooperative AID/UN effort, the overall goals being:

- (1) To improve Moroccan fishing facilities and utilization;
- (2) To determine if there is a sufficient market justification for the establishment of an FPC industry, and
- (3) To develop a methodology to get the FPC fortified foods to certain target groups.

AID's activities will be primarily concerned with the marketing aspect of the overall project.

Implementation of the project has been delayed due to the number of groups involved and the necessity to resolve certain conflicts. It is expected that the project will be implemented in FY 1971.

TA/AGF:JBCordaro:7/15/70

PROJECT SUMMARY

Major Types of Activity: Externally Determined Program Emphasis

Project Title: Fish Protein Concentrate (FPC) Feasibility Study Chile & Korea

Contractor: General Oceanology, Inc. (GO)
Cambridge, Massachusetts

Contract Number: AID/csd-2158

Contract Liaison Officer: Mr. Alvin V. Block
Title: President

Project Number: 931-11-590-816
Present: 73-3107005(A-1)

Project Duration: Started June 1968 Termination Date July 31, 1970

Comments:		Obl.	Expend.	Unliq.
		(000's dollars)		
Budget:	a) Funds obligated through FY 69	: 268	207	61
	b) Funded for FY 70	: 84	110	35
	c) Funds request for FY 71	: 0		
	d) Estimated Fund Requirement FY 72:	0		

TA/AGF Monitor: Mr. G.K. Parman and Mr. J. B. Cordaro

To determine the potential for indigenous production of FPC in Chile and Korea, GO was to focus on market analysis, product development and testing, and supply and cost analysis.

After the contract award, USAID/Korea's interest in the project waned. Concurrently, expected local currency support vanished and the contractor was unable to carry out the original work plan. Contract emphasis was changed to determine whether there was a need for additional protein in Korea and if FPC could help ameliorate such protein gaps. The report concluded: (1) Protein Malnutrition exists in certain target groups in Korea; (2) FPC can contribute to improving the condition of these target groups; (3) Although an FPC plant should not be built at this time, alternatives are available to improve the availability of fish needed for FPC production; and (4) Korea needs a national nutrition policy.

Part I of the Chile study concludes:

- (1) The establishment of a viable FPC industry in Chile is dependent upon the Government of Chile's willingness to purchase large quantities of FPC.
- (2) Plentiful raw material at economic levels exists to sustain a large FPC plant(s).
- (3) Indigenously produced FPC can be a cost-effective replacement for imported non-fat dry milk.

Part II dealing with the Chilean market system, will be complete July 31, 1970.

TA/AGF:JBCordaro:7/15/70

PROJECT SUMMARY

Major Type of Activity: Field Support - Agricultural Inputs

Project Title: Fertilizers, Technical Assistance: Surveys, Training and Consultation

Contractor: National Fertilizer Development Center, TVA, Muscle Shoals, Alabama

Contract Number: PASA TA(QA)6-69.

Contractor Liaison Officer: Dr. Donald L. McCune

Title: Director, International Fertilizer Development Staff

Project Number: 931-11-109-832

Present: 72-3102106

Termination

Date

Project Duration: Started 11/16/65

6/30/72 Obl.

Expend/Unlig.

(000's dollars)

Budget:	a) Funds obligated through FY 69	:	1399	399	-
	b) Funded for FY 70	:	460	460	-
	c) Funds requested for FY 71	:	400	400	-
	d) Estimated fund requirements FY 72:	:	600	600	-

TA/AGF Project Monitor: Dr. John L. Malcolm

Purpose: This project is designed (1) to provide the LDCs, USAIDs, AID/W, and the Bureaus with comprehensive services in the field of fertilizer, and (2) to aid in identifying, assessing, and removing the gravest deficiencies in the LDCs' fertilizer programs. This involves all the skills required by AID to meet any problems from mining geology through process engineering, market research, product distribution and field use, combined with assistance in organization and management at each phase.

Description: TVA is collecting and publishing world fertilizer statistics. The potential and effective demand for specific products is being related to capacity and existing supplies. Improved packaging, handling, and shipping methods are being worked out. New emphasis is being placed on international training and development of materials which can be used for regional and in-country training. Assistance in fertilizer marketing will be supplied as further information is gathered and analyzed. A base is being laid for testing new materials and basic raw materials so that mission needs can be met. TVA will continue to strengthen its professional staff to meet AID needs.

Accomplishments: During the past year, 37 reports and publications have been prepared in addition to the monthly publication of Fertilizer Abstracts. These reflect direct service to 10 countries as well as general contributions. Members of the professional staff made 37 trips to LDCs to work on engineering, management, organization and distribution problems. Training was provided to 225 visitors under AID sponsorship at the National Fertilizer Development Center. Research on bagging has shown a possible 90% reduction of handling losses. For other needs, bulk handling of urea has been shown to be practical based on commercial experience.

Future Plans: Materials will be prepared to permit in-country training, reaching many more individuals. More work will be done on fertilizer marketing, attacking both existing problems and preparing for future guidance on policy, operations and management. On-going activities will be continued. The need for this service is expected to continue beyond the present termination date.

PROJECT SUMMARY

Major Type of Activity: Field Support - Agricultural Inputs

Project Title: Plant and Seed Materials for Development of Potential Crops in LDCs

Contractor: USDA, Agricultural Research Service

Contract Number: PASA TA(AJ)2-69

Contractor Liaison Officer: Dr. John Creech

Title: Director, New Crops Research Branch

Project Number: 931-11-130-828
72-3192051 (312066) (3102117)

Project Duration:	Started	June 1955	Termination Date	Indefinite: Subject			
				to annual review			
(000's dollars)			Obl.	Expend.	Unliq.		
Budget:	a)	Funds obligated through FY 69	:	52	52	-	
	b)	Funded for FY 70	:	600	60	-	
	c)	Funds requested for FY 71	:	700	70	-	
	d)	Estimated fund requirement FY 72:	:	1200	120	-	

TA/AGF Project Monitor: Mr. Theodore V. Tibbutt

Purpose: The low productivity of agriculture in most lesser developed countries is related to the low-yield characteristics of indigenous crop seed and plant propagating materials. Scientific and technological innovations in plant breeding have demonstrated that crop yields and nutritional quality of food crops can be enhanced, given a wide germplasm spectrum.

Description of Activity: USDA, Agricultural Research Service (ARS) will provide AID Missions with technical advisory services/and experimental quantities of seed and material for increasing food crop production. This will broaden the germplasm base available to plant breeders in developing high-yielding varieties as needed to meet changing ecological balances, meet LDC needs for balanced nutrition and agricultural diversification, and improve soil and water resource use as part of a worldwide network of research and technical assistance. ARS also will assist in developing national and/or regional centers of plant introduction, collection, screening and varietal maintenance as part of a worldwide network of research in coordination with AID, foundations, and other agencies.

Accomplishments: A germplasm collection consisting of useful yam varieties has been established at the Federal Experiment Station, Mayaguez, Puerto Rico. Plant materials from the World Sorghum Collection are to be evaluated and their germplasm also maintained at the Mayaguez Station. This material is available for national and regional trials and supportive to the Purdue Program to incorporate high-protein materials into breeding plant populations. Experimental quantities of plant propagating material and seed are supplied to LDCs without cost.

Future Plans: This project will be coordinated with other AID-sponsored activities relating to crop variety development, e.g. IRRI, CIMMYT, Purdue, and Nebraska U., as an integral part of the Worldwide Research Network.

PROJECT SUMMARY

Major Types of Activity: Field Support - Agricultural Inputs

Project Title: Technical Assistance in Food Grain Drying, Storage, Handling and Transportation

Contractor: Kansas State University

Contract Number: AID/csd-1588

Contractor Liaison Officer: Dr. William J. Hoover

Title: Director, Food and Feed Grain Institute

Project Number: 931-11-190-786

Present: 73-3102153

Project Duration: Started 6/30/67 Termination Date 6/29/72

Comments: This project is responding to a continuing and growing need for assistance to USAID Missions in overcoming grain marketing and storage problems.

	(000's dol.)	Obl.	Expend.	Unliq.
Budget: a) Funds obligated through FY 69	: 249	249	101	138
b) Funded for FY 70	: 57	57	150	45
c) Funds requested for FY 71	: 125	125	140	30
d) Estimated fund requirement FY 72:		125	130	25

TA/AGF Project Monitor: Mr. Michael Galli

Purpose: Estimates of food losses in LDCs from the field to the consumer may go as high as 50% of total production and in some cases exceed food deficits. The objective of this project is to provide technical assistance to USAIDs and LDCs in the solution of problems involving the losses of food grains and food grain quality during post-harvest handling, drying and storage.

Description of Activity: The contractor, upon request, provides the following technical services: (1) consultation and advice on (a) the identification and analysis of problems in grain handling practices, (b) the planning, organizing, development, review and evaluation of LDC projects, (c) survey, design and advice on construction of physical facilities for grain handling programs; (2) dissemination of information, knowledge and technology on all aspects of post-harvest handling, drying, transportation, marketing and storage through training programs, consultations, handbooks and advisory services.

Accomplishments: The contractor has provided short-term specialists to Guyana, Ecuador, Guatemala, Dominican Republic, Jordan, India, Morocco, Korea and the Asian Productivity Organization in Tokyo. Over 16 separate reports relating to its services to LDCs have been provided. A special training program was designed and conducted for 20 participants from Latin America.

Future Plans: The contractor will continue to respond to requests for technical assistance. Plans are underway to send specialists to Pakistan, Niger, Upper Volta, Senegal, Mali and Indonesia. Additional training courses are planned in response to Regional Bureau requests.

PROJECT SUMMARY

Major Type of Activity: Field Support - Agricultural Inputs

Project Title: Seed Processing and Testing

Contractor: Mississippi State University

Contract Number: AID/csd-607

Contractor Liaison Officer: Dr. Curtis Delouche
Title: Professor of Agronomy

Project Number: 931-11-130-203
Present: 73-3102157

Project Duration: Started		3/18/57	Termination Date	3/31/71, subject to extension	
		(000's dollars)	Obl.	Expend.	Unliq.
Budget:	a) Funds obligated through FY 69	:	602	433	169
	b) Funded for FY 70	:	117	220	66
	c) Funds requested for FY 71	:	125	160	31
	d) Estimated fund requirement FY 72:	:	175	180	26

TA/AGF Project Monitor: Mr. Theodore V. Tibbutt

Purpose: Most LDCs lack the capability to supply agriculture's need for improved seed, although research has developed crop varieties with high-yield potentials. The project's objective is to increase the LDCs capability to supply their farmers need for improved seed by providing technical assistance and manpower training.

Description of Activity: MSU responds to USAID and host government requests for technical assistance in planning, organizing and implementing seed improvement programs in such areas as: (1) seed multiplication, processing, drying, storage, certification and distribution; (2) planning, design and construction of facilities; and (3) establishing and operating seed testing programs. The services of engineers, agronomists, seed processing specialists, geneticists, seed technologists and plant operation specialists are provided by MSU.

Accomplishments: The LDCs requesting seed improvement program assistance have increased their capability to meet the farmers' increased demand for high-yield potential seed. Seed processing, handling and testing facilities have been installed and are operating in over 15 countries. Seed program administrators, technologists/and specialists have been trained in their own countries and/or at MSU. Research on seed drying facilities and methods have been adapted to LDC conditions. Publication and reference materials relevant to seed improvement programs and technologies have been compiled and assembled. These are available to requesting Missions.

Future Plans: On-going technical assistance activities will be continued and expanded to meet the rapidly increasing demand for MSU assistance; and will stress a) increased emphasis on training schools and seminars, b) private sector seed industry development, and c) seed program and policy planning.

TA/AGF:TVTibbutt:7/15/70; revised 8/18/70

PROJECT SUMMARY

Major Types of Activity: Field Support - Fisheries

Project Title: Increased Fish Production through Improved Fish Culture in the LDCs

Contractor: Auburn University

Contract Number: AID/csd-1581 (2270)

Contract Liaison Officer: Dr. Homer S. Swingle
Title: Director, International Aquaculture Center

Project Number: 931-11-180-787
Present: 73-3192009

Project Duration: Started 6/30/67 Termination Date 6/30/72

Comment: The International Aquaculture Center at Auburn was established in June 1970 by a 211(d) grant

	(000's dollars)	Obl.	Expend.	Unlig.
Budget: a)	Funds obligated through FY 69	: \$661	277	384
b)	Funded for FY 70	: 0.00	360	24
c)	Funds requested for FY 71	: 100.00	110	14
d)	Estimated fund requirement FY 72:	150.00	154	10

TA/AGF Project Monitor: Mr. G. K. Parman

Purpose: These funds will permit Auburn to strengthen its capability to respond to the increasing number of requests from developing countries for assistance to utilize aquaculture as a source of food and a means of employment and income. These funds also provide a necessary link to assure that the competence being developed at Auburn is utilized by AID in a timely, logical and systematic manner.

Description: The overall objective of Agency assistance to Auburn is to attempt to assure that the aquaculture area of fisheries is more effectively and efficiently utilized. This project provides funds to: execute surveys to assess the potential for aquacultural projects and follow-up with the necessary assistance for priority project development; supply technical consultation and backstopping for specific tasks in key problem areas of aquacultural development; plan and run seminars and workshops; and serve as a center for the development, analysis, collection and dissemination of relevant data, reports, and general information.

Accomplishments: Surveys have been completed in approximately 20 countries. Projects developed in Brazil and Thailand are still active. A project in the Philippines is nearing implementation. Projects are being considered or planned in East Pakistan, Colombia, Paraguay and Panama. Chile also has indicated an interest in aquaculture. Additional surveys are scheduled in three African countries during FY 1971.

Future Plans: To involve the International Center for Aquaculture increasingly in program development and to encourage greater reliance on aquaculture in developing countries where these projects seem appropriate. An expected follow-up will be to induce the U.S. private sector to invest in commercial aquacultural enterprises abroad.

TA/AGF:JBCordaro:7/15/70; revised 8/18/70

PROJECT SUMMARY

Major Type of Activity: Field Support - Technical Information Service

Project Title: Agricultural Technical Support

Contractor: Various (U.S. Department of Agriculture, University of Florida; National Academy of Sciences; Volunteers for International Technical Assistance; and Others)

Contract Number: Various

Contractor Liaison Officer: Various
Title:

Project Number: 931-11-190-901

Present:

Project Duration:	Started <u>6/30/65</u>	Termination Date:	Indefinite, subject to annual review	
Budget:		(OOO's dollars) Obl.	Expend.	Unliq.
a)	Funds obligated through FY 69	: 109.	84	25
b)	Funded for FY 70	: 54.	65	14
c)	Funds requested for FY 71	: 30.	34	10
d)	Estimated fund requirement FY 72:	30	30	10

TA/AGF Project Monitor: Mrs. Ruth Lancetti

Purpose: The project exists to serve a complex of information activities: improving the quality of the technical inquiries service to the USAIDs; supporting the technical literature program; and sponsoring new publications in agriculture development and technology. The budget is comparatively modest because these activities are funded otherwise to the extent possible.

Description: The project funds materials to supplement responses to field requests. Review copies of recent significant books are obtained for USAID dissemination. Additional copies of reports received under research and technical assistance contracts are purchased, and commercial editions are encouraged. Contracts are awarded for new manuscripts and existing AID publications are revised, printed or reprinted.

Accomplishments: USAIDs and AID/W staff have been assisted in problem-solving, and in keeping abreast of developments in general and specialized areas. New publications have been produced specifically for overseas use. These include the Handbook of Tropical and Sub-Tropical Horticulture, the Sprinkler Irrigation Handbook, and the Village Technology Handbook. At press in GPO is the new Home Making Manual. Commercial editions resulting from research and technical assistance projects include volumes on pest control, animal science and AID-university relations. These publications often become the prime source of information on the process and progress in overseas development.

Future Plans: Upon completion of manuscripts on Natural Vegetable Fibers and Neotropical Phytopathology, commercial editions are contemplated. Negotiations are proceeding for a revision of the Small Canning Facilities Manual and a new edition of the Rural Youth Atlas is in process. In sum, it is proposed to continue the project at the present level of support to the USAIDs and to other AID research and technical assistance projects.

GENERAL TECHNICAL SERVICES
(Proposed) GTS-16

PROJECT SUMMARY

Major Type of Activity: Field Support

Project Title: Transportation Cost for Shipment of A.I.D. Procured FPC

Contractor: Public Transportation

Contract Number:

Contract Liaison Officer:
Title:

Project Number:

Project Duration: Started _____ Termination Date _____
(000's dollars)

Budget:		Obl.	Expend.	Unliq.
a)	Funds obligated through FY 69	-0-	-0-	-
b)	Funded for FY 70	-0-	-0-	-
c)	Funds requested for FY 71	10	10	-
d)	Estimated Funds requirement FY 72:	-0-	-0-	-

TA/AGF Project Monitor: Mr. J. B. Cordaro

The purpose of this project is to provide funding for inland freight of 170 tons of FPC (New Bedford, Massachusetts to New York) at \$5,319, and ocean freight for 70 tons, at a cost of \$4,200, or a total of \$9,519.

This will pay for shipping all the 172 tons of available FPC to countries. Chile is paying for the ocean freight for the 100 tons which it is using.

TA/AGF:WFJohnson/8-5-70

PROJECT SUMMARY

Major Type of Activity: Key Problem Area - Higher Protein Crop Production

Project Title: Development and Food Utilization of Soybeans

Contractor: University of Illinois

Contract Number:

Contractor Liaison Officer:

Title:

Project Number:

Present:

Project Duration: Started _____ Termination Date _____

Comments: Expected duration of this project is 5 years.

	(000's dollars)	Obl.	Expend.	Unliq.
Budget: a) Funds obligated through FY 69	:	-0-	-0-	
b) Funded for FY 70	:	-0-	-0-	
c) Funds requested for FY 71	:	75	60	15
d) Estimated fund requirement FY 72	:	120	110	25

TA/AGF Project Monitor: Dr. Samuel Litzenberger

Purpose: This project is designed to assist in overcoming the world-wide protein gap by developing varieties of soybeans suitable for human consumption without complicated processing and fermentation. Linked to the breeding of the new varieties is the further refinement of a simple method devised by the University of Illinois for converting certain existing varieties of soybeans to human food.

Description: The contractor, upon request, will provide: (1) technical assistance for LDC programs concerned with accelerated production of new soybean varieties, utilizing new technology in plant breeding, cultural practices, and pest and disease control; and (2) technical assistance in adapting new methods of processing soybeans for human food. These activities will be closely linked with ongoing soybean research at the University of Illinois, USDA and regional centers to assure inputs involving the latest technological developments.

Future Plans: Plans will be formulated to (1) intensify efforts for the production of food-type soybeans in LDCs through the introduction of new varieties; (2) develop more efficient methods for processing food-type soybeans in the LDCs; and (3) encourage the USDA and other organizations to accelerate research on soybeans suitable for human food.

PROJECT SUMMARY

Major Type of Activity: Field Support - Crop Protection

Project Title: Feasibility Study for Plant Protection (Pest and Disease Control)

Contractor: University of California, North Carolina State University

Contract Number:

Contractor Liaison Officer: Dr. Ray F. Smith, UC Berkeley; Dr. J. Apple, NCSU

Project Number:

Present:

Project Duration: Started _____ Termination Date _____

		(000's dollars)	Obl.	Expend.	Unliq.
Budget:	a) Funds obligated through FY 69	:	---		
	b) Funded for FY 70	:	---		
	c) Funds requested for FY 71	:	---		
	d) Estimated fund requirement FY 72:		125.	100	25

TA/AGF Project Monitor: Mr. George D. Peterson, Jr.

Purpose: There is urgent need to obtain reliable appraisals of major pest and disease problems affecting crop production in the LDCs. Such appraisals must be made from a multidisciplinary point of view to maximize the probability of recognizing the principal underlying factors contributing to the problems; also the more significant interrelationships between various pest and disease species, the crop, and the environment in which the crop is grown. The overall purpose of this project is to identify the critical problems, set priorities for action, and determine the feasibility of AID technical assistance, research and training projects aimed at their solution.

Description: This project will be involved in (1) identification of major pest and disease problems in key crops and/or production areas through use of multidisciplinary survey teams; (2) determination of the need for research, technical assistance, training and extension programs aimed at specific crop protection problems in the LDCs; (3) assessment of necessary inputs and support services required for these programs; and (4) determination of AID's role and appropriate level of support in this area.

Future Plans: As a result of this study, AID will be in a position to better evaluate plant protection needs and to determine what role the Agency should play in a coordinated program, the costs and benefits of such AID activity, and the methods and means most likely to yield maximum returns to the LDCs.

PROJECT SUMMARY

Major Type of Activity: Field Support - Crop Protection

Project Title: Textbook on Neotropical Phytopathology

Contractor: North Carolina State University

Contract Number: AID/csd-1149

Contractor Liaison Officer: J. L. Apple

Title: Director, School of Agriculture and Life Sciences

Project Number: 931-11-130-760

Present:

Project Duration: Started 5/31/66 Termination Date: 12/31/70

		(000's dollars)		
		Obl.	Expend.	Unliq.
Budget:	a) Funds obligated through FY 69	: 84	59	25
	b) Funded for FY 70	:		
	c) Funds requested for FY 71	:		
	d) Estimated Fund requirement FY 72	:		

TA/AGF Project Monitor: Mrs. Ruth Lancetti

Purpose: The project is designed to provide a reference text on neotropical phytopathology bringing together the voluminous, fragmented literature on the subject and combining it with the author's original research. The resulting book of about 600 pages is expected to fill in part the information gap on the tropics and assist in crop improvement and specialization work.

Description: The author, Dr. F. L. Wellman, has worked for 28 years in the tropics and subtropics on plant diseases. His manuscript summarizes all available literature, and contains his research findings, the geography and potentials of regions, comparisons of zones and historical background.

Accomplishments: The manuscript was scheduled for completion the end of FY 70. The writing was interrupted when Dr. Wellman was summoned to Brazil to advise on the outbreak of coffee rust. His observations on this serious economic problem are being incorporated in the final three chapters on disease control.

Future Plans: The manuscript is now scheduled for delivery in November 1970. Upon approval by AID, a commercial edition is contemplated. It is planned to purchase review copies for the USAIDs and to promote its use in the tropics and subtropics through host country universities and institutions.

TECHNICAL ASSISTANCE PROJECTS OF
 OFFICE OF AGRICULTURE AND FISHERIES
 TECHNICAL ASSISTANCE BUREAU
 AGENCY FOR INTERNATIONAL DEVELOPMENT

<u>TITLE OF PROJECT</u>	<u>CONTRACTOR/PARTICIPATING AGENCY</u>	<u>STATUS</u>
<u>I. Crop and Seed Improvement</u>		
1. Seed Processing and Testing	Miss. State Univ. AID/W - 607	Contract extended 1 year
2. Grain Drying and Storage	Kansas State Univ. AID/csd - 1588	" " "
3. Plant and Seed Materials for the Development of Potential Crops in LDCs	USDA/ARS PASA-WOH(AJ 2-69)	" " "
4. International Maize and Wheat Improvement Center	CIMMYT, Mexico	" " "
5. Support to the International Rice Research Institute	IRRI AID/csd 2176	" " "
<u>II. Soils and Fertilizers</u>		
6. Fertilizers, Technical Assistance (Surveys, training & consultation)	TVA PASA-WOH(QA) 6-69	Ongoing contract amended to deobligate \$20,000
<u>III. Water Management</u>		
No Technical Assistance Projects		

<u>TITLE OF PROJECT</u>	<u>CONTRACTOR/PARTICIPATING AGENCY</u>	<u>STATUS</u>
<u>IV. Pest/Disease Control</u>		
7. Preparation of Manuals on the Control of Plant and Animal Pests	National Academy of Sciences AID/csd-760	Final volume to be published
8. Textbook on Neotropical Phytopathology	North Carolina State Univ. AID/csd-1149	To be completed this year
<u>V. Fisheries</u>		
9. Fish Culture in the LDCs	Auburn University AID/csd-1581	Contract extended 1 year. 211(d) grant under consideration
10. Purchase and Testing of Fish Protein Concentrate	Alpine Marine Protein Industries, Inc., Bureau of Commercial Fisheries, University of California (1) AID/csd-913; (2) WOH(IE) 11-68; (3) csd-2274	Being completed
11. Fish Protein Concentrate Feasibility Studies (Chile & Korea)	General Oceanology AID/csd-2158	" "
12. Fish Protein Concentrate Feasibility Study (Morocco)		
<u>VI. Animal Protein Production</u>		
No technical assistance projects		

<u>TITLE OF PROJECT</u>	<u>CONTRACTOR/PARTICIPATING AGENCY</u>	<u>STATUS</u>
VII. <u>Agricultural Financing</u>		
No technical assistance projects		
VIII. <u>Factor Analysis - Planning</u>		
No technical assistance projects		
IX. <u>Agricultural Pricing</u>		
No technical assistance projects		
X. <u>Marketing</u>		
13. Technical Assistance for Food Marketing	USDA/FEDS	New project. Contract to be negotiated
XI. <u>AID-University Programs in Agricultural Education</u>		
14. AID/CIC Workshop and Seminar	Purdue Research Foundation AID/csd-2458	Final report being completed
15. Asian Agricultural College and University Seminar	North Carolina State University	New contract - 1 year
XII. <u>General Assistance to Agriculture</u>		
16. Vanguard Program	Government of the Republic of China	
17. Technical and Economic Evaluation of Processing Fresh Coconuts for Production of Protein Foods	Texas A&M University AID/ea/84	

TITLE OF PROJECT

CONTRACTOR/PARTICIPATING
AGENCY

STATUS

18. Support to Centro Internacional de Agriculture Tropical (CIAT)	CIAT	
19. Agricultural Statistics - Agricultural Census Training Program	Census Bureau, Dept. of Commerce PASA-WOH(CA) 4-69	Contract being renewed
20. Agricultural Technical Support	Various (USDA & others)	Being continued
21. Agricultural Economics Seminars	Agricultural Development Council	

June, 1970

PROJECTS TAB

CONTRACTOR PARTICIPATING AGENCY COUNTRIES CONCERNED LOAN/GRANT FUNDING STATUS

PROJECTS	CONTRACTOR PARTICIPATING AGENCY	COUNTRIES CONCERNED	LOAN/GRANT	FUNDING STATUS
1. Seed Processing and Testing Monitor - Ayers	Miss. State University	Colombia, Ecuador, Honduras, El Salvador, Panama & Peru	Grant	(Worldwide) \$ 145,000 1/
2. Plant and Seed Materials for the Development of Potential Crops in LDCs Monitor - Ayers	USDA/ARS	18 LA countries	Grant	
3. International Maize and Wheat Improvement Center Monitor - Ayers	CIAMYT, Mexico	Mexico & all LA countries	Grant	\$ 525,000 1/
4. Analysis of Data on the Nutrient Status of Soils in Latin America Monitor - Ayers	N. Carolina St. Univ. csd - 287	14 LA countries	Grant	TFP # 1,324,35 EFO FY69 222,388 FPr FY 70 38,632 EPCD 06/30/70
5. Soil Fertility Requirements to Attain Efficient Productivity on the Extensive, Acid, Well-drained Upland Soils of the Humid Tropics Monitor - Ayers	Cornell University with the University of Puerto Rico csd 2490	None at present but anticipated for use	Grant	\$ 379,816 (for 18 I EPCD 06/29/74
6. Fertilizers, Technical Assistance (Surveys, Training & Consultations) Monitor - Shields/Malcolm	TVA	Bolivia, Chile, Colombia, Ecuador & Brazil Paraguay Uruguay Peru	Grant	
7. Water Management Research in Arid and Sub-Humid Lands of the LDCs (LA) Monitor - Ayers	Utah State University csd 2167	Brazil, Colombia, Ecuador, Chile, Bolivia, El Salvador & Venezuela	Grant	TFP # 294,750 FPr FY70 500,000 EFO FY71 700,000 EPCD 06/28/73
8. Control of Weeds in the LDCs Monitor - Peterson	Oregon State University csd 1442	Colombia & El Salvador	Grant	TFP # 686,874 EFO FY69 208,463 FPr FY70 300,000 EFO FY71 300,000 EPCD 06/29/71
9. Control of Vertebrate Pests, Rats Bats and Noxious Birds Monitor - Konnerup	BSFW - Dept. of Interior PASA-RA (ID) 1 - 67	Mexico & Colombia	Grant	TFP # 683,267 EFO FY69 409,509 FPr FY70 496,047 EFO FY71 500,000 EPCD 04/04/72
10. Hemoprotozoal Diseases of Food Producing LIVESTOCK Monitor - Konnerup	Texas A & M csd 1947	Colombia	Grant	TFP 244,350 FPr FY70 250,000 EFO FY71 250,000 EPCD 05/30/73
11. Development of Conservation Processes for Fish Products Monitor - Cordaro	Agrarian University, La Molina, Peru	Peru	Grant	TFP # 64,000 EFO FY71 32,000 EPCD 04/30/71
12. Fish Culture in the LDCs Monitor - Farman	Auburn University csd 2270	Brazil, Colombia	Grant	\$ 295,504
13. AID Procured FPC Monitor - Cordaro	Alpine Marine Protein Industries, Inc.	Chile	Grant	\$ 260,000
14. Evaluation for use of AID Procured FPC Monitor - Cordaro	University of Calif., at Davis csd 2274	Brazil, Chile, El Salvador	Grant	\$ 20,000 1/
15. FPC Feasibility Study (Chile)	General Oceanology csd 2158	Chile	Grant	\$ 93,000 1/
16. Survey and Analysis of the Problem of Animal Protein Production in the Wet/Dry Tropics Monitor - Konnerup	University of Florida csd 2498	All LA Countries	Grant	TFP # 53,200 EFO FY69 53,200 FPr FY70 112,000 EPCD 12/31,70
17. An Analysis of Capital Formation and Technological Innovation at the Farm Levels in LDCs Monitor - Shields	Research Foundation of Ohio State University csd 2501	Brazil	Grant	TFP # 227,050 EFO FY69 227,158 FPr FY70 286,000 EPCD 06/29/71
18. Role of Agricultural Prices in Economic Development	Cornell University csd 1438	Chile	Grant	TFP # 286,857 EFO FY69 20,857 EPCD 06/29/70

TFP - Total Funding Provided thru 06/30/69
EFO - Estimated Funds Obligated
FPr - Funding Programmed
EPC - Estimated Project Funding

@ Majority of the projects are on a Worldside basis
1/ Status TAB FY 70 Funded Projects
AID Central Research Program, Active Projects
As of 02/20/70.

UNIVERSITY CONTRACTORS - LATIN AMERICA

as of March, 1971

AGRICULTURE

<u>COUNTRY</u>	<u>COLLEGE/UNIVERSITY</u>	<u>FIELD OF WORK</u>
BOLIVIA	Wisconsin University Utah State University	Land Tenure Sheep, Wool, Wheat, Forage, Irrigation
BRAZIL	Auburn University Univ. of Florida Mississippi State Ohio State University Purdue University Wisconsin University	Fresh Water Fisheries Ag Education (Res Teaching, Ext) Seed & Plant material Ag Education (Res Teaching, Ext) Ag Education Ag Education
COLOMBIA	Utah State University Michigan State University	Agrarian Reform National Ag Planning
COSTA RICA	University of Florida	General Agriculture
DOMINICAN REP.	Texas A & M University	General Agriculture
EL SALVADOR	Auburn University University of Florida	Fisheries Ag Dev & Agrarian Reform.
GUATEMALA	Cal Polytechnic Institute Mississippi State University	Agricultural Tng. Basic Food Crops
GUYANA	Tuskegee Institute University of Florida	Diversification & Dev of Ag General Agriculture
PARAGUAY	New Mexico State University	Institution Bldg., Rural Univ. and Ministry of Agriculture
PERU	North Carolina State Univ. Iowa State University	Assist Ag Univ, La Molina Research Teaching, Ext. Sectoral Planning, Ag Econ in Ministry of Ag and National Planning Institute
ROCAP	Univ. of Puerto Rico Oklahoma State University	Ag Education San Carlos School of Vet Medi- cine

UNIVERSITY CONTRACTORS
Latin America

Tita L. Patino:LA/DR/AI
3/17/71

Cleared by:
All IA Desk Officers (Draft)
LA/DR/AI, DRFiester *RF*
LA/DR/AI, JEWalker *JW*
LA/DR/AI, BTWhittle *BT*

LATIN AMERICA

NUMBER OF AND AMOUNT FUNDED TO UNIVERSITY CONTRACTS (BY AID/W) IN AGRICULTURE

BY COUNTRY, FY 1970-72

<u>Country</u> <u>L/A</u>	<u>FY 1970</u>		<u>FY 1971</u> <u>estimated</u>		<u>FY 1972</u> <u>estimated</u>	
	<u>Number</u>	<u>Amount Funded</u>	<u>Number</u>	<u>Amount Funded</u>	<u>Number</u>	<u>Amount Funded</u>
Argentina	2	\$ 150,000	-0-	-0-	-0-	-0-
Bolivia	2	477,418	2	734,000	2	615,000
Brazil	6	1,970,708	6	1,653,000	6	1,661,000
Colombia	1	28,000	2*	293,200	-0-	-0-
Costa Rica	1	44,000	1	7,400	-0-	-0-
Domin Rep	1	795,545	1	795,000	1	607,000
El Salvador	1	118,000	2	379,000	3	525,000
Guatemala	1	59,800	2	168,000	2	190,000
Guyana	1	141,022	2	376,000	2	351,000
Paraguay	1	95,000	1	155,000	1	155,000
Peru	2	1,354,000	2	1,160,000	2	1,250,000
ROCAP	unavailable		2	251,000	2	210,000
TOTALS:	19	\$ 5,233,493	23	\$ 5,971,600	21	\$ 5,564,000

*USAID/Michigan State Univ. Contract
CORA/Utah State/USAID financed

Tita L. Patino/LA/DR/AI
3/17/71

Cleared by:
LA Desk Officers (Draft)
LA/DR/AI, DRFiester
LA/DR/AI, JEWalker
LA/DR/AI, BTWhittle

UNIVERSITY CONTRACTORS - LATIN AMERICA
as of March, 1971

AGRICULTURE/ Regional Contracts

<u>COUNTRY</u>	<u>COLLEGE/UNIVERSITY</u>	<u>FIELD OF WORK</u>
Regional	(Penn State University (Texas A & M (Michigan State Univ.	Develop Graduate Level Agricultural Science University (Castelar)
Regional	North Carolina State University	Soil Fertility Program
Regional	Michigan State University	Agricultural Marketing

Tita L. Patino/LA/DR/AI
3/17/71

Cleared by:

LA/Desks Officers (Draft)
LA/DR/AI, DRFiester *lit*
LA/DR/AI, JEWalker *lit*
LA/DR/AI, DPescock (draft)

LATIN AMERICA

NUMBER OF AND AMOUNT FUNDED TO UNIVERSITY CONTRACTS IN AGRICULTURE

REGIONAL PROJECTS - FY'71-72

<u>PROJECT</u>	<u>FY '71</u> <u>estimated</u>	<u>Amount Funded</u>	<u>FY '72</u> <u>estimated</u>	<u>Amount Funded</u>
<u>REGIONAL</u>	<u>Number</u>		<u>Number</u>	
CASTELAR	1	\$ 439,000	1	\$ 625,000
MARKETING/MSU	1	(a) 50,000 (b) 63,000	1	226,000
SOILS/NCSU	1	348,200	1	374,800
TOTALS:	3	\$ 900,200	3	\$ 1,235,800

*FY '70 Regional Contracts
were handled by IA Regional
Office

Tita L. Patino:IA/DR/AI
3/17/71

- (a) approved PIO/T for 1/1/71 - 6/31/71.
(b) subject to PROP approval

Cleared by:

All IA Desk Officers (Draft)
IA/DR/AI, DRFiester MI
IA/DR/AI, JEWalker MI
IA/DR/AI, DPeacock (draft)

UNIVERSITY CONTRACTORS - - - LATIN AMERICA



Agriculture

CAMPUS COORDINATORS

Country

CHIEF OF PARTY

WISCONSIN UNIVERSITY
Dr. Edwin E. Heizer
a/c 608-262-3946

Brazil

Lincoln A. Engelbert

PURDUE UNIVERSITY
Dr. Wood Thomas
a/c 317-749-3753 or 2411

Brazil

J. H. Atkinson

OHIO STATE UNIVERSITY
Dr. Mervin Smith
a/c 614-293-7252

Brazil

Alvin Noxon

UNIVERSITY OF ARIZONA
Dr. William G. Matlock
a/c 602-884-2711 or 1717

Brazil

Lemoyne Hogan

MISSISSIPPI STATE UNIVERSITY
Dr. Dean Bunche
a/c 601-325-4902

Brazil

Dumont Souleyrette

NEW MEXICO STATE UNIVERSITY
Dr. Paul Duffield
a/c 505-646-2646

Paraguay

Charles W. Gay, Jr.

TEXAS A & M UNIVERSITY
Mr. William Beach
a/c 713-845-4821 or 4822-4823

Dom Rep

John Holcomb

IOWA STATE UNIVERSITY
Mr. John Bode
a/c 515-294-4867

Peru

Dr. Fred Mann

UTAH STATE UNIVERSITY
Mr. Bruce Anderson
a/c 801-752-4100 ext. 596

Bolivia

Dr. Austin Hays

UNIVERSITY OF FLORIDA
Dr. Hugh Fopence
a/c 904-392-1955

Costa Rica

Dr. Albert S. Muller
~~Dr. A. H. Kretschmer~~
(Contract terminates
8/31/70)

CAMPUS COORDINATORS

Country

CHIEF OF PARTY

NORTH CAROLINA STATE UNIVERSITY
Dr. Harvey L. Bumgardner
a/c 919-755-2671

Peru

Dr. Damon Boynton

CALIFORNIA STATE POLYTECHNIC COLLEGE
Dr. Douglas R. Pierce, Director
a/c 805-546-2147

Guatemala

Kermit Adams

MICHIGAN STATE UNIVERSITY
Dr. Irving R. Wyeth
a/c 517-355-0174

Argentina

Dr. Garland Wood

UNIVERSITY OF NEBRASKA
Dr. Clyde Noyes, Acting
a/c 402-472-2871

Colombia

Dr. Clayton Yeutter

* Regional Contracts not included.

Please add to your list of :

AGRICULTURE/Latin America

CAMPUS COORDINATORS

Country

CHIEF OF PARTY

KANSAS STATE UNIVERSITY
Dr. William Hoover
a/c 913-532-6861

Guatemala

LOUISIANA STATE UNIVERSITY
Dean J. Norman Efferson
a/c 504-388-4161

Nicaragua

Billy Nelson
(Team Leader)

AGENCY FOR INTERNATIONAL DEVELOPMENT

BUREAU FOR LATIN AMERICA

STATEMENT OF LOAN IMPLEMENTATION AND DISBURSEMENT PROGRESS

JULY 31, 1970

(In Thousands of Dollars)

- A - Old Development Lending Funds
- X - AID Development Lending Funds
- S - Supporting Assistance Funds
- Z - Alliance For Progress Funds
- M - Inter-American Social & Economic Progress Funds
- N - Contingency Funds

LOANS BY COUNTRY	BORROWER	AMOUNT AUTHORIZED	CURRENT AMOUNT	DATE AUTHORIZED	AMOUNT SIBOR	TERMS				INITIAL OP'S ACT	TERMINAL DISBURSEMENT DATE		TOTAL DISB. FY 1969	DISBURSEMENTS			TOTAL THRU 7-31-70	% DISBURSED	DAYS THRU 7-31-70	
						YRS.	INT.	GRACE	INT.		ORIGINAL	REVISED		FY 1970						
														JULY/DAY	JUNE	FY 1971				
ARGENTINA - TIC																				
L-007 Economic Development	GOA	\$24,750	\$24,613	12-23-68	3-18-69	9	5 1/2	-	-	-	-	-	-	-	-	-	-	24,613	100	24,613
A-004 Routes 18 and 125	GOA	6,000	545	4-17-61	7-25-61	20	3 1/2	-	-	-	-	-	-	-	-	-	-	545	100	545
L-005 Essential Imports	GOA	20,000	19,962	2-17-62	3-14-62	15	3 1/2	5	3 1/2	-	-	-	-	-	-	-	-	19,962	100	19,962
L-007 Route 12	GOA	6,700	6,700	7-21-62	1-21-63	10	3/4	10	3/4	-	-	-	-	-	-	-	-	6,700	100	6,700
L-008 IBRD/AID Road Program	GOA	30,500	29,706	1-25-63	3-18-63	40	3/4	10	3/4	-	-	-	-	-	-	-	-	29,706	100	29,706
L-009 Essential Goods & Services	GOA	20,000	19,945	5-11-63	6-09-63	15	3 1/2	5	3 1/2	-	-	-	-	-	-	-	-	19,945	100	19,945
L-012 Self-Help Housing	F.B.A.	2,000	1,999	5-24-63	9-15-63	40	3/4	10	3/4	-	-	-	-	-	-	-	-	1,999	100	1,999
						30	2		2											
L-010 Feasibility Studies	GOA	3,000	2,000	5-04-63	6-03-63	40	3/4	10	3/4	9-24-63	12-31-65	6-30-71	1,422	582	3	-	-	1,997	99	2,000
L-010-A Feasibility Studies (Inc.)	GOA	1,000	1,000	8-25-67	10-10-67	40	2 1/2	10	1	8-28-68	12-31-69	6-30-71	-	-	-	-	-	-	-	10
L-011 Grain Storage	Nacion Inc.	21,700	10,000	5-04-63	10-10-63	40	3/4	10	3/4	8-30-69	5-31-66	8-31-71	-	-	-	-	-	-	-	-
L-013 Meat Technology & Aftosa Lab.	INPA	1,400	1,400	12-25-63	5-28-66	15	5 3/4	5	5 3/4	9-29-67	4-24-70	12-31-71	60	15	4	-	-	79	5	200
Sub-Total		137,659	117,871			30	3 1/2	5	3 1/2						7	-	-	105,547	90	105,941
BOLIVIA - TIC																				
L-001 Sugar Mill	Gesser & Cie.	2,500	2,498	10-31-58	5-05-59	12	5 1/2	-	-	-	-	-	-	-	-	-	-	2,498	100	2,498
A-002 El Alto Airport Const.	GOB	1,500	1,500	6-17-59	10-22-59	40	3/4	10	3/4	-	-	-	-	-	-	-	-	1,500	100	1,500
A-005/1-005 Sugar Mill	Sec. Ind.	1,750	1,574	2-21-61	6-21-61	10	5 3/4	10	5 3/4	-	-	-	-	-	-	-	-	1,574	100	1,574
A-005/2-005 Highway Main.	GOB	2,400	2,034	2-08-62	15-07-63	40	3/4	10	3/4	-	-	-	-	-	-	-	-	2,034	100	2,034
L-011 El Alto Airport Const.	GOB	600	600	5-31-62	9-05-62	40	3/4	10	3/4	-	-	-	-	-	-	-	-	600	100	600
L-011-A El Alto Airport Const.	GOB	1,794	1,794	2-25-64	3-16-64	40	2	10	3/4	-	-	-	-	-	-	-	-	1,794	100	1,794
L-013 OMTIBOL Rehab.	C. Minera	5,000	4,998	2-11-63	3-04-63	10	4	10	3/4	-	-	-	-	-	-	-	-	4,998	100	4,998
L-015-A Access Roads 3 and 7	GOB	7,200	7,189	6-28-63	8-01-63	40	3/4	10	3/4	-	-	-	-	-	-	-	-	7,189	100	7,189
L-016 Industrial Bank - BISA	BISA	2,400	2,265	7-26-63	8-28-63	20	5 3/4	5	3	-	-	-	-	-	-	-	-	2,265	100	2,265
L-019 Agricultural Bank	GOB	3,700	3,700	8-07-63	8-17-63	40	3/4	10	3/4	-	-	-	-	-	-	-	-	3,700	100	3,700
R-037 Supporting Assistance	GOB	4,500	4,500	5-17-63	6-28-63	40	2 1/2	10	2	-	-	-	-	-	-	-	-	4,500	100	4,500
L-010 Feasibility Studies	GOB	6,000	5,925	6-08-62	6-28-62	40	3/4	10	3/4	8-22-62	6-30-64	7-20-70	5,796	111	-	-	-	5,907	99	5,925
L-011-B El Alto Airport Const. (Inc.)	GOB	500	500	5-19-62	8-31-65	40	2 1/2	10	1	3-05-66	10-31-66	12-31-69	338	171	-	-	-	509	92	550
L-015-B Access Roads 3 & 7 (Inc.)	GOB	2,400	2,400	3-02-69	4-01-69	40	2 1/2	10	2	-	-	-	-	-	-	-	-	-	-	-
L-017 El Alto Customs Center	GOB	2,200	2,200	6-29-63	8-17-63	40	3/4	10	3/4	8-09-65	8-01-65	5-31-70	1,835	381	-	-	-	2,217	99	2,197
L-021 Roads 1 and 4	GOB	33,800	33,800	5-28-64	9-16-64	40	2	10	1	7-09-69	6-30-69	6-30-73	25,993	5,604	498	-	-	32,500	99	33,200
L-024-A Roads 1 and 4 (Inc.)	GOB	9,500	9,500	2-05-67	8-02-67	40	2 1/2	10	1	5-28-68	6-30-72	-	-	-	-	-	-	9,500	100	9,500
L-025 SNC Nat'l Road Service	GOB	5,000	1-05-66	4-17-66	40	2 1/2	10	1	6-27-66	9-01-60	10-31-70	4,045	111	(1)	-	-	4,255	99	4,997	
L-027 Mining Bank	Mining Br.	4,300	994	1-05-66	3-22-66	40	2 1/2	10	1	7-15-68	5-01-68	6-30-70	663	820	-	-	-	894	89	994
L-045 Agriculture Bank	Agr. Br.	2,100	2,100	1-01-66	3-22-66	40	2 1/2	10	1	4-13-68	5-01-69	3-01-71	1,264	(372)	-	1	-	678	82	1,574
L-029 OMTIBOL Rehab. (3rd Phase)	C. Minera	1,100	1,100	3-16-66	4-19-66	40	2 1/2	10	1	3-21-67	6-30-68	6-30-71	397	42	12	44	-	595	25	1,000
L-031 Santa Cruz Elec. Power	BMS	4,750	4,750	6-30-66	9-24-66	40	2 1/2	10	1	8-30-67	3-31-70	7-31-71	-	-	2,379	439	7	3,267	70	4,297
L-032 El Alto-Ouro Road	GOB	4,750	4,750	6-30-66	11-04-66	30	3 1/2	5	1	-	-	-	-	-	-	-	-	-	-	-
L-035 Feasibility Studies (2nd)	GOB	1,500	1,500	6-13-67	3-22-68	40	2 1/2	10	1	6-17-67	12-31-69	12-31-71	1,037	2,594	20	-	-	4,451	93	4,634
L-038 Community Development	GOB	1,700	1,700	7-25-68	-	40	2 1/2	10	2	3-03-69	8-31-70	-	-	-	-	-	-	-	-	82
L-433 Civil Air Transport	GOB	2,000	2,000	10-11-68	12-20-68	40	3	10	2	6-25-69	9-30-71	-	-	-	184	18	-	135	6	1,428
L-040 SA & Equipment Procurement	IAS	1,000	1,000	10-31-68	12-20-68	40	3	10	2	6-25-69	9-30-71	12-31-71	-	-	23	-	-	23	2	800
Sub-Total		113,600	111,021			40	3	10	2						990	52	-	88,868	80	105,739

Loan Implementation & Disbursement
 Report Progress

LOANS BY COUNTRY	BORROWER	AMOUNT AUTHORIZED	CURRENT AMOUNT	DATE ACQUIRED	ACHEIEMENT DATED	SERIES				INITIAL CP'S MET	TERMINAL DISBURSEMENT ORIGINAL DATE	ADJUSTED FY 1970	DISBURSEMENTS			TOTAL FY 1970	% DISBURSED	DA'S FY 1970	
						YES	INT.	GRACE	INT.				JULY/MAY	JUNE	JULY				
BRAZIL - 512																			
L-001 IMPORT Procurement	GOB	74,500	74,500	11-16-61	11-20-61	40	3/4	10	3/4	-	-	-	-	-	-	-	-	-	
L-007 Synthetic Rubber Plant	COPECO	3,400	2,903	9-17-62	9-24-62	40	2 1/2	10	1	-	-	-	-	-	-	-	-	-	
L-008 Development Bank	COPECO	4,000	4,000	9-17-62	3-06-63	40	3/4	10	3/4	-	-	-	-	-	-	-	-	-	
L-009 Carbon Black Plant	Carbonos	2,000	1,915	1-02-63	3-11-63	40	3/4	10	3/4	-	-	-	-	-	-	-	-	-	
K-010 Emergency Stop-Gap Acct.	Zk. Brazil	25,000	25,000	4-23-63	4-24-63	40	3/4	10	3/4	-	-	-	-	-	-	-	-	-	
L-016 SUDENS/OWSER (Pwrg.Power)	SUDENS	2,400	2,315	7-09-63	10-29-63	40	3/4	10	3/4	-	-	-	-	-	-	-	-	-	
L-018 National Steel Mill	Sidensurgica	5,500	5,492	3-23-64	5-22-64	40	3/4	10	3/4	-	-	-	-	-	-	-	-	-	
L-020 Cast Pipe Expansion	Parbura	1,400	1,097	2-23-64	6-10-65	40	2 1/2	10	1	-	-	-	-	-	-	-	-	-	
K-024 Stabilization & Dev.	Zk. Brazil	50,000	50,000	6-17-64	6-24-64	40	2	10	3/4	-	-	-	-	-	-	-	-	-	
L-025 Pulp & Paper Mill	Glincroft	800	749	6-26-64	12-23-64	40	2	10	3/4	-	-	-	-	-	-	-	-	-	
L-028 Fertilizer Imports	GOB	14,493	14,493	6-29-64	8-21-64	40	5 1/2	10	3/4	-	-	-	-	-	-	-	-	-	
L-032 Railway Consultants	FIERE	1,000	984	12-21-64	3-26-65	40	2 1/2	10	1	-	-	-	-	-	-	-	-	-	
L-033 CEMENT Plant	CV do P	788	788	3-22-65	8-03-65	40	2 1/2	10	1	-	-	-	-	-	-	-	-	-	
L-034 Stabilization & Dev.	GOB	150,000	149,911	12-04-64	12-11-64	40	2 1/2	10	1	-	-	-	-	-	-	-	-	-	
L-035 Hardboard Mfg. Co.	Reater	1,960	1,960	4-03-65	5-12-65	40	2 1/2	10	1	-	-	-	-	-	-	-	-	-	
						8	5 1/2	3	5 1/2										
L-011 Sta. Cruz Thermal Plant																			
	Hidroeletrica	15,500	15,500	4-20-63	9-10-63	40	2 1/2	10	1	3-00-64	12-31-67	9-30-71	14,909	59	3	1	14,968	96	15,499
L-014 CEMIG Power Plant	CEMIG	5,300	5,300	7-25-63	10-16-63	40	3 3/4	3	5 3/4	6-17-64	3-31-67	6-30-70	4,833	257	2	-	5,072	95	5,294
L-015 NE Ry Const.	SUDENS	11,000	11,000	6-29-63	6-05-64	40	5 3/4	5	5 3/4	3-30-65	3-31-68	10-30-70	7,568	3,250	-	53	10,846	99	11,000
L-015-A NE Ry Const. (Inv.)	SUDENS	7,400	4,900	2-17-64	6-06-64	40	2	10	3/4	7-11-65	1-10-70	10-30-70	1,002	1,002	284	385	1,671	34	4,900
L-015 NE Ry Equip.	SUDENS	9,000	15,611	2-18-64	11-18-64	40	2	10	3/4	3-30-65	12-31-66	6-30-70	14,486	323	(2)	1	14,810	94	15,611
L-021 Malania Irradiation	GOB	6,500	6,500	3-05-64	5-11-64	40	2	10	3/4	8-17-64	3-31-66	12-31-70	5,790	499	(22)	(1)	6,266	96	6,472
L-022 CEMIG Power Expansion	Gen. Elct.	4,300	4,293	5-07-64	6-05-64	40	2	10	3/4	11-17-64	6-30-68	12-31-70	3,649	364	23	23	4,060	94	4,233
L-023 Furnas Trans. Expansion	Furnas	16,700	16,700	5-18-64	10-02-64	40	2	10	3/4	3-28-65	12-31-68	12-31-70	15,015	641	12	(1)	15,667	93	16,700
L-025 Pedreiro Hydro. Power	GOB	20,000	16,475	6-27-64	11-27-64	40	5 1/2	3	5 1/2	4-13-65	12-31-67	3-31-71	16,752	518	-	-	17,064	92	18,397
L-027 Volta Redas Trans. Line	ONSEP	7,000	6,700	6-27-64	10-09-64	40	2	10	3/4	1-15-65	6-30-67	8-31-70	5,225	313	123	-	5,861	87	6,546
K-029 Air Navigation Aids	GOB	2,700	2,700	6-30-64	9-04-64	40	3 1/2	10	3 1/2	8-28-65	10-31-69	6-30-72	1,528	324	14	3	1,869	69	2,627
L-041 CEMIG Power Plant	Paranaemas	11,400	11,400	3-27-65	6-09-65	40	2 1/2	10	3/4	10-04-65	3-31-70	3-31-71	7,316	2,173	202	234	9,825	86	11,337
L-047 Minas Gerais Ry. Equip.	St. Ry.	15,000	12,900	5-28-65	7-22-65	40	2 1/2	10	5 1/2	1-10-66	11-03-66	12-31-70	11,170	51	-	69	11,591	86	12,500
L-050 Rio Elec. Distr. System	Rio Light	25,000	25,000	6-23-65	10-11-65	40	3 1/2	3	3 1/2	7-07-66	6-30-69	3-31-70	23,773	1,224	-	-	24,997	99	24,999
L-051 Sao Paulo Distr. System	S.P. Light	15,000	15,000	6-23-65	10-11-65	40	2 1/2	10	1	7-07-66	6-30-69	3-31-70	14,705	292	-	1	14,998	99	14,999
L-053 Hydroelectric Power Plant	COHEB	8,500	10,700	10-20-65	12-01-65	40	2 1/2	10	1	5-02-66	6-30-69	6-30-71	8,692	840	19	37	9,580	89	10,392
L-054 FIERE Feasibility Studies	GOB	11,000	11,000	10-25-65	6-03-66	40	2 1/2	10	1	12-22-66	12-31-69	7-31-72	3,228	1,406	76	104	4,634	85	10,649
L-055 Commodity Imports	GOB	150,000	149,593	1-19-66	2-10-66	40	2 1/2	10	1	1-29-66	6-30-67	11-30-69	145,042	2,650	-	(276)	147,026	98	149,522
L-057 Outstanding Sovereign	San. Dept.	2,500	2,175	6-13-66	8-18-66	40	2 1/2	10	1	6-15-67	7-31-69	12-31-70	2,055	883	6	6	1,649	85	2,175
L-058 Gataoara Water	Water Dept.	2,600	2,925	6-13-66	8-18-66	40	2 1/2	10	5 1/2	3-06-67	7-31-69	6-30-71	1,466	949	55	-	2,070	70	2,925
L-059 Sao Paulo Ry. Main.	Ry. Dept.	20,000	20,000	6-29-66	8-18-66	40	2 1/2	10	1	3-09-68	12-31-69	3-28-71	1,854	1,172	122	36	3,244	16	14,331
L-060 Highway PA	EXTR	400	400	6-27-66	3-28-66	40	3 1/2	10	3 1/2	6-15-68	12-31-70	3-31-72	-	-	-	-	-	-	310
L-061 Food Production No.2	GOB	20,000	1,000	6-29-66	9-09-66	40	2 1/2	10	1	9-26-67	12-31-68	12-31-70	203	104	251	101	699	69	993
L-062 Macaemba Hydro Power	COHEB	13,300	13,300	6-29-66	8-18-66	40	2 1/2	10	1	2-13-67	6-30-72	12-31-73	883	923	74	35	1,918	14	10,985
L-063 Fertilizer Pkt. & Distr.	UreaFertil	14,800	14,600	10-12-66	11-21-66	40	5 1/2	7	5 1/2	8-01-67	12-31-69	6-30-70	13,043	956	-	-	14,799	99	14,799
L-064 Program Loan	GOB	100,000	95,504	3-01-67	3-11-67	40	2 1/2	10	1	7-31-67	6-30-68	3-31-71	89,297	13,170	81	11	97,599	97	99,796
L-065 Mineral & Water Resources	GOB	8,400	8,400	5-25-67	11-29-67	40	2 1/2	10	1	6-31-68	8-01-72	-	218	441	-	24	783	9	3,719
L-066 Sta. Cruz Thermal Plant	FURNAS	41,800	41,800	6-28-67	10-13-67	40	2 1/2	10	1	6-17-68	6-30-74	-	550	5,346	1,326	620	7,851	19	30,223

LOANS BY COUNTRY	BORROWER	AMOUNT AUTHORIZED	CURRENT AMOUNT	DATE AUTHORIZED	AGREEMENT SIGNED	TERMS				INITIAL CP'S MET	ORIGINAL DISBURSEMENT DATE		TOTAL DRAWS FY 1970	DISBURSEMENTS			DA'S YRBU 7-31-70	% DISBURSED	
						YRS.	INT.	GRADE	INT.		ORIGINAL	REVISED		JULY/AUG	JUNE	JULY			TOTAL DRAWS 7-31-70
BRAZIL - 512 (Continued)																			
L-067 Sica-Carreira Rev. Main.	Roy. Dept.	7,500	5,300	6-21-67	-	40	2 1/2	10	1	-	-	-	-	-	-	-	-		
L-069 Rio Grande Inv. Main.	Roy. Dept.	13,300	5,500	6-22-67	-	40	2 1/2	10	1	-	-	-	-	-	-	-	-		
L-070 Power Training & Ex.	EMATEDEBRAS	747	747	10-23-67	10-23-67	15	3 1/2	10	3	5-14-68	4-30-73	239	151	-	14	404	595		
L-072 Malaria Eradication	COB	10,300	13,100	3-11-68	5-21-68	40	2 1/2	10	2	7-01-68	6-30-72	-	1,252	899	379	6	2,536	24	
L-073 Progress Loan	COB	15,000	15,000	3-29-68	5-23-68	40	2 1/2	10	2	12-12-68	6-30-70	12-31-70	-	29,007	4,716	4,856	38,439	51	
L-074 Health Sector	COB	15,400	15,400	5-29-68	1-15-70	40	2 1/2	10	2	-	12-31-72	-	-	-	-	-	-	-	
L-075 Passo Real Hydro.	CEE	27,400	27,400	6-28-68	6-30-69	40	2 1/2	10	2	12-22-69	6-30-74	-	-	602	406	53	1,061	3	
L-076 IJBE Statistical Dev.	COB	5,800	5,800	6-28-68	8-13-69	40	2 1/2	10	2	4-28-70	6-30-75	-	-	-	-	-	-	2,960	
L-077 Agricultural Research	COB	11,930	11,930	6-24-68	-	40	2 1/2	10	2	-	-	-	-	-	-	-	-	-	
L-078 Educational Sector	COB	32,000	32,000	6-29-68	11-13-69	40	2 1/2	10	2	-	6-30-74	-	-	-	-	-	-	-	
L-079 Agricultural Research	COB	1,470	1,470	4-23-69	-	40	3 1/2	10	2	-	-	-	-	-	-	-	-	-	
L-080 Urban Sanitation	COB	25,000	25,000	9-15-70	-	40	3	10	2	-	-	-	-	-	-	-	-	-	
L-081 Educational Sector	COB	20,000	20,000	6-29-70	-	40	3	10	2	-	-	-	-	-	-	-	-	-	
Sub-Total		1,179,025	1,134,340											8,101	6,362	830,058	73	954,914	
CHILE - 513																			
A-006 Michenal Airport Const.	COB	10,500	7,133	6-29-60	7-19-60	20	3 1/2	-	-	-	6-30-69	-	-	-	-	7,134	100	7,134	
A-009 Central Housing Bank	COB	5,000	5,000	5-11-61	5-13-61	25	4	-	-	-	2-25-64	-	-	-	-	5,000	100	5,000	
A-010-A Central Sur Airport Const.	COB	1,600	1,600	3-30-61	6-21-61	12	3 1/2	-	-	-	4-30-61	-	-	-	-	1,600	100	1,600	
A-011 Earthquake Reconstruction	COB	100,000	100,000	0-01-61	8-03-61	30	3/4	10	3/4	-	2-24-64	-	-	-	-	100,000	100	100,000	
L-017 Progress Loan	COBFO	40,000	39,961	6-26-62	8-15-62	40	3/4	10	3/4	-	6-21-63	-	-	-	-	39,961	100	39,961	
L-018 Progress Loan	COB	35,000	35,994	1-04-63	1-31-63	40	3/4	10	3/4	-	9-30-65	-	-	-	-	34,994	100	34,994	
L-021 Primary School Const.	COB	2,100	1,998	1-04-64	6-22-64	40	2	10	3/4	-	12-31-65	-	-	-	-	1,998	100	1,998	
L-022 Central Housing Bank	COB, Cen.	8,700	8,698	2-27-64	3-15-64	40	2	10	4	-	3-31-68	-	-	-	-	8,698	100	8,698	
L-023 Progress Loan	COB	40,000	39,994	3-12-64	4-03-64	40	3/4	10	3/4	-	10-31-66	-	-	-	-	39,994	100	39,994	
L-023-A Program Loan (Inc.)	COB	15,000	14,786	5-29-64	6-15-64	40	2	10	3/4	-	10-31-66	-	-	-	-	14,786	100	14,786	
L-025 Progress Loan	COB	80,000	78,570	12-02-64	1-15-65	40	2 1/2	10	1	-	7-31-69	-	-	-	-	78,570	100	78,570	
L-028 Fertilizer Imports	COB	3,600	3,339	6-29-65	1-11-66	40	2 1/2	10	1	-	12-31-66	-	-	-	-	3,339	100	3,339	
L-031 Private Sector Imports	Central Bank	10,000	9,556	3-12-66	6-02-66	40	2 1/2	10	1	-	2-28-70	-	-	-	-	9,556	100	9,556	
COLOMBIA - 514																			
A-010 Carriel Sur Airport Const.	COB	3,900	1,945	4-17-61	6-21-61	20	3 1/2	-	-	6-05-64	4-30-64	6-20-70	1,287	270	37	-	1,574	90	
L-010 CORFO Feasibility Studies	COB	3,000	2,294	8-30-63	3-06-64	40	3/4	10	3/4	4-14-64	12-30-66	5-15-70	1,337	513	59	-	1,967	85	
L-010 Gen. Vinecote Port	Regres	7,000	7,000	10-28-63	5-11-64	20	3/4	10	3/4	9-22-65	12-30-68	12-31-71	207	922	1	111	1,231	17	
L-024 Rural Electric Coops.	COBFO	3,300	3,300	3-05-65	3-05-65	40	3	10	1	11-05-65	3-31-67	11-15-70	2,703	30	79	-	2,807	85	
L-026 Cooperative Dev. Bank	Idc F.C.	3,850	3,650	6-26-65	4-13-66	40	2 1/2	10	1	6-03-66	3-31-65	10-31-70	2,956	446	96	-	3,998	96	
L-030 Essential Imports	COB	80,000	77,912	1-27-66	2-15-66	40	2 1/2	10	1	3-14-66	9-30-67	9-30-70	75,193	1,432	(4)	1	76,622	98	
L-033 Feasibility Studies	COB	2,900	2,900	6-13-67	7-19-67	40	2 1/2	10	1	12-23-68	10-31-70	10-31-71	-	-	-	-	-	1,000	
L-034 Educational Sector	COB	10,000	10,000	6-29-67	5-18-67	40	2 1/2	10	1	6-11-68	12-31-68	9-30-72	3,324	5,409	560	6	9,356	93	
L-035 Essential Imports	COB	15,000	14,999	10-18-67	10-23-67	40	2 1/2	10	1	12-05-67	9-30-68	10-31-70	11,695	2,429	161	57	14,215	95	
L-037 Agricultural Sector	COB	23,000	23,000	10-18-67	10-23-67	40	2 1/2	10	1	10-05-68	6-30-69	12-30-70	13,034	5,892	111	26	18,023	63	
L-040 Educational Sector	COB	16,500	16,500	6-23-68	10-03-68	40	2 1/2	10	2	7-31-68	7-31-70	1-09-71	-	7,060	1,938	1	8,999	55	
L-042 Progress Loan	COB	20,000	20,000	8-30-68	9-10-68	40	2 1/2	10	2	9-17-68	7-31-69	12-31-70	2,552	12,168	549	226	15,495	77	
L-042 Agricultural Sector	COB	10,000	10,000	6-27-69	-	40	3	10	2	-	-	-	-	-	-	-	-	-	
L-043 Petrochemical Industry	COBFO	15,000	15,000	10-18-69	-	40	3	10	2	-	-	-	-	-	-	-	-	-	
L-044 Human Resources Dev.	COB	2,500	2,500	6-30-69	4-16-70	40	3	10	2	-	4-16-75	-	-	-	-	-	-	-	
Sub-Total		365,970	364,937											3,596	458	500,391	90	528,037	

LOANS BY COUNTRY	BORROWER	AMOUNT AUTHORIZED	CURRENT AMOUNT	DATE AUTHORIZED	AGREEMENT SIGNED	TERMS				INITIAL CP'S MET	DISBURSEMENT RATE		TOTAL PAID FY 1970	DISBURSEMENTS			TOTAL PAID 7-31-70	% DISBURSED	DA'S TRSU 7-31-70
						YES.	INT.	GRACE	EXT.		ORIGINAL	REVISED		JULY/MAY	JUNE	FY 1971 JUNE			
COLOMBIA - 511																			
L-017 Self-Help Housing	COO	12,000	12,000	8-29-60	8-28-61	20	1	-	-	-	-	-	-	-	-	12,000	100	12,000	
L-016 Agricultural Resettlement	COO	8,000	8,000	8-29-60	8-28-61	20	1	-	-	-	-	-	-	-	-	8,000	100	8,000	
L-017 Commodity Assistance	COO	30,000	30,000	2-15-62	4-18-62	15	3 1/2	5	3 1/2	-	-	-	-	-	-	30,000	100	30,000	
L-024 Commodity Assistance	COO	59,790	59,790	12-06-62	12-18-62	40	3 1/4	10	3 1/4	-	-	-	-	-	-	59,790	100	59,790	
L-026 Self-Help Housing	Housing Inst.	7,500	7,500	5-31-62	6-23-62	40	3 1/4	10	3 1/4	-	-	-	-	-	-	7,500	100	7,500	
L-027 Supervised Agr.	INCOBA	10,000	9,997	5-28-63	6-26-63	40	3 1/4	10	3 1/4	-	-	-	-	-	-	9,997	100	9,997	
L-025 Commodity Assistance	COO	15,000	14,996	1-30-64	3-11-64	40	2	10	3 1/4	-	-	-	-	-	-	14,996	100	14,996	
L-026 Medellín Sewerage Enmr.	Exprens. Pub.	250	193	5-15-64	7-18-64	40	2	10	3 1/4	-	-	-	-	-	-	193	100	193	
L-028 Livestock Bank	Bk. Guadaro	4,000	3,999	5-22-64	7-18-64	40	2 1/2	10	3 1/4	-	-	-	-	-	-	3,999	100	3,999	
L-029 Commodity Assistance	COO	34,993	34,993	5-14-64	7-13-64	40	2	10	3 1/4	-	-	-	-	-	-	34,993	100	34,993	
L-044 Commodity Assistance	COO	65,000	65,000	11-09-65	18-20-65	40	2 1/2	10	1	-	-	-	-	-	-	65,000	100	65,000	
L-046 Supervised Agriculture	Inst. Agr.	8,491	8,491	2-24-66	3-16-66	20	2 1/2	10	1	-	-	-	-	-	-	8,491	100	8,491	
L-025 Feasibility Studies	COO	4,000	3,000	5-13-63	6-26-63	40	3 1/4	10	3 1/4	-	-	-	-	-	-	3,000	75	2,999	
L-029 Cali Sewerage System	H. Cali	3,700	3,700	6-29-63	9-28-63	40	3 1/4	10	3 1/4	-	-	-	-	-	-	3,700	100	3,700	
L-030 Mineral Resources Survey	COO	2,000	2,000	6-29-63	9-18-63	40	3 1/4	10	3 1/4	-	-	-	-	-	-	2,000	100	1,888	
L-035 Rural Electric Cooperatives	I. Agnes y Turismo	1,300	1,300	4-07-64	5-11-64	40	2	10	3 1/4	-	-	-	-	-	-	1,300	100	1,213	
L-037 Bogota Sewerage Engr.	Exprens. Pub.	450	450	5-15-64	7-18-64	40	2	10	3 1/4	-	-	-	-	-	-	450	100	449	
L-040 Private Investment Fund	Ek. Sep.	10,000	10,000	6-13-64	12-23-64	40	2 1/2	10	3 1/4	-	-	-	-	-	-	10,000	100	9,992	
L-043 Livestock Bank	Bk. Guadaro	8,000	8,000	5-13-66	7-25-66	40	2 1/2	10	3 1/4	-	-	-	-	-	-	8,000	100	7,999	
L-049 Commodity Assistance	COO	100,000	98,319	5-22-67	5-27-67	40	2 1/2	10	2	-	-	-	-	-	-	98,319	99	98,319	
L-051 Agricultural Sector	COO	15,000	14,999	6-27-68	7-15-68	40	2 1/2	10	2	-	-	-	-	-	-	14,999	100	14,999	
L-052 Commodity Assistance	COO	58,000	57,915	6-27-68	7-15-68	40	2 1/2	10	2	-	-	-	-	-	-	57,915	99	57,883	
L-053 Agricultural Sector	COO	15,000	15,000	4-25-69	5-19-69	40	3	10	2	-	-	-	-	-	-	15,000	100	14,990	
L-054 Educational Sector	COO	10,000	10,000	4-25-69	5-19-69	40	3	10	2	-	-	-	-	-	-	10,000	100	9,992	
L-055 Program Assistance	COO	60,000	60,000	4-25-69	5-19-69	40	3	10	2	-	-	-	-	-	-	60,000	100	59,994	
L-056 Slaughterhouse	Bk. Guadaro	2,100	2,100	6-30-69	6-11-70	15	9 1/2	5	2 1/2	-	-	-	-	-	-	-	-	-	
L-037 Private Investment Fund	Bk. Republica	10,000	10,000	6-30-69	12-22-69	20	5 1/2	2	2 1/2	-	-	-	-	-	-	-	-	9,000	
L-058 Mineral Resources Survey	COO	1,700	1,700	6-04-70	-	40	3	10	2	-	-	-	-	-	-	-	-	-	
L-059 Educational Sector	COO	15,000	15,000	5-20-70	6-11-70	40	3	10	2	-	-	-	-	-	-	-	-	-	
L-060 Agricultural Sector	COO	15,000	15,000	5-22-70	6-11-70	40	3	10	2	-	-	-	-	-	-	-	-	-	
L-061 Program Assistance	COO	40,000	40,000	6-11-70	6-11-70	40	3	10	2	-	-	-	-	-	-	-	-	-	
Sub-Total		537,500	522,282										10,487	7,226	429,145	80	541,377		
COSTA RICA - 515																			
L-022 BICA Agr. Resettlement	COOR	300	300	10-06-68	1-13-69	16	5 1/2	-	-	-	-	-	-	-	-	299	100	299	
L-003 Agricultural Credits	Int'l. Bank	5,000	5,000	6-12-61	9-21-61	20	3 1/2	-	-	-	-	-	-	-	-	5,000	100	5,000	
L-005 Agricultural Credit (2nd)	Int'l. Bank	5,000	5,000	4-17-63	7-23-63	40	3 1/2	10	3 1/4	-	-	-	-	-	-	5,000	100	5,000	
L-006 IDU Elm Replacement	COOR	2,000	1,999	6-18-63	7-23-63	40	3 1/4	10	3 1/4	-	-	-	-	-	-	1,999	100	1,999	
L-007 Cachi Hydroelectric	COOR	1,500	1,500	6-18-63	7-23-63	40	3 1/4	10	3 1/4	-	-	-	-	-	-	1,500	100	1,500	
L-008 Metro. Emergency Water	COOR	1,400	1,387	7-01-65	7-23-63	40	3 1/4	10	3 1/4	-	-	-	-	-	-	1,387	100	1,387	
L-009 TRAP/AD Highway Program	COOR	2,100	2,100	6-25-65	7-23-63	40	3 1/4	10	3 1/4	-	-	-	-	-	-	2,100	100	2,100	
L-010 Industrial Development Bank	COOR	5,000	4,993	11-18-68	12-23-68	40	3 1/4	10	3 1/4	-	-	-	-	-	-	4,993	100	4,993	
L-012 Iruva Dam	COOR	1,300	1,293	11-20-64	1-25-66	40	2 1/2	10	1	-	-	-	-	-	-	1,293	100	1,293	
L-013 Rural Electrification	Int'l. Bank	3,500	3,297	6-21-61	10-27-61	40	2 1/2	10	1	-	-	-	-	-	-	3,297	100	3,297	
L-016 Malanda Electrification	COOR	500	500	6-25-66	7-15-66	40	2 1/2	10	1	-	-	-	-	-	-	500	100	500	
L-018 Program Loan	COOR	3,000	1,091	12-01-67	1-04-68	40	2 1/2	10	2	-	-	-	-	-	-	1,091	100	1,091	
L-004 Metro. Water Supply	Int'l. Water	3,500	3,500	6-12-61	12-22-61	20	3 1/2	-	-	-	-	-	-	-	-	3,500	85	3,247	
L-011 Industrial Survey	COOR	1,500	1,500	4-23-64	10-19-64	40	2	10	3 1/4	-	-	-	-	-	-	1,376	86	1,296	
L-016-A Malanda Electrification	COOR	490	490	5-31-66	10-11-68	40	2 1/2	10	2	-	-	-	-	-	-	490	100	490	
L-017 Agricultural Credit (3rd)	Int'l. Bank	5,000	5,000	4-06-67	5-17-67	40	2 1/2	10	1	-	-	-	-	-	-	4,973	99	5,000	
L-019 Industrial Development Bank (2nd)	COOR	5,000	5,000	7-03-68	5-05-69	40	2 1/2	10	1	-	-	-	-	-	-	4,973	100	4,973	
L-020 Highway Maintenance	COOR	7,100	7,100	6-27-69	7-31-69	40	3	10	2	-	-	-	-	-	-	-	-	-	
L-021 Savings & Loan	Assn. Bank	1,000	1,000	7-01-69	11-17-69	40	3	10	2	-	-	-	-	-	-	-	-	50	
L-022 Agricultural Development	COOR	15,150	15,150	6-30-70	-	40	3	10	2	-	-	-	-	-	-	-	-	-	
Sub-Total		70,450	67,317										723	249	30,430	56	40,323		

LOANS BY COUNTRY	BORROWER	AMOUNT APPROVED	CURRENT AMT	DATE AUTHORIZED	AGREEMENT SIGNED	TERMS			INITIAL DISBURSEMENT DATE	TOTAL DISBURSEMENT DATE		TOTAL FY 1970	DISBURSEMENTS			TOTAL FY 1970	DAYS DISBURSED	DAYS FROM 7-31-70	
						YRS.	MOS.	GRACE		ORIGINAL	REVISED		JULY/PAY	JUNE	JULY				
																			1969
DOMINICAN REPUBLIC - 517																			
K-001 Budget Support	GOER	25,000	24,780	3-21-62	3-21-62	20	3/4	5	3/4	-	-	5-05-64	24,780	100	24,780				
L-002 Savings & Loan Assn.	WBS	2,050	2,050	11-02-62	1-02-63	40	3/4	10	3/4	-	-	9-30-67	2,050	100	2,050				
K-003 Commodity Assistance	GOER	4,000	4,000	8-05-64	8-18-64	20	3 1/2	5	3 1/2	-	-	10-27-64	4,000	100	4,000				
L-004 Irrigation Can	GOER	1,400	1,400	11-24-64	11-30-64	40	2 1/2	10	1	-	-	9-30-69	1,400	100	1,400				
L-005 Feasibility Studies	GOER	1,000	982	1-05-65	2-16-65	40	2 1/2	10	1	-	-	12-31-69	982	100	982				
K-006 Budget Support	GOER	4,000	4,000	1-23-65	2-03-65	20	3 1/2	7	3 1/2	-	-	2-15-65	4,000	100	4,000				
EL SALVADOR - 518																			
L-007 Private Investment Fund	GOER	5,000	5,000	3-31-65	4-12-65	40	2 1/2	10	1	2-10-66	6-30-68	6-30-71	4,751	73	(25)	4,829	96	4,979	
L-008 National Housing Bank	Mac'l Bank	5,000	5,000	1-21-65	3-29-66	40	2 1/2	10	1	6-21-66	10-15-68	12-31-71	4,188	776	-	4,965	99	4,997	
K-009 Budget Support	GOER	10,000	10,000	5-24-66	5-23-66	25	2 1/2	5	1	5-25-66	12-31-66	12-31-70	9,877	40	128	9,999	99	9,999	
L-010 Agricultural Credit	Agr. Bank	9,500	9,500	5-04-66	10-05-66	40	2 1/2	10	1	1-16-67	9-30-68	12-31-70	8,316	1,191	6	9,509	99	9,500	
K-011 Budget Support	GOER	15,000	15,000	6-20-66	6-30-66	40	2 1/2	10	1	6-30-66	12-15-66	12-31-70	14,572	58	60	14,999	99	15,000	
K-012 Budget Support	GOER	10,000	25,000	11-30-66	12-09-66	40	2 1/2	10	1	12-00-66	6-30-68	12-31-70	24,743	175	95	24,999	99	24,999	
L-014 Community Development	GOER	8,700	8,700	3-03-67	4-25-67	40	2 1/2	10	1	5-06-67	12-31-69	12-31-71	4,317	1,459	4	5,014	69	7,513	
K-015 Urban Improvement	GOER	5,000	5,000	5-24-67	6-14-67	40	2 1/2	10	1	10-04-67	6-11-69	12-31-70	2,433	1,212	887	4,582	91	5,000	
L-016 Prefeas. & Feasibility	GOER	4,750	4,750	6-13-67	1-10-68	40	2 1/2	10	1	5-22-68	7-31-69	12-31-70	102	215	15	2	134	19	
L-017 Educational Credit	Ed. Fund.	1,400	1,400	6-21-67	1-10-68	40	2 1/2	10	1	5-09-68	11-01-71	-	722	203	38	1	1,265	91	1,400
L-018 Private Dev. Finance	F.D.S.A	5,000	5,000	6-21-67	5-28-68	40	2 1/2	10	1	9-10-68	12-31-71	-	871	856	334	190	2,451	45	2,900
K-019 Budget Support	GOER	16,100	16,099	3-10-68	4-01-68	40	2 1/2	10	2	4-30-68	6-30-68	12-31-70	6,805	3,656	4,192	14,727	91	15,225	
L-020 Cooperative Dev. Bank	GOER	2,650	2,650	6-25-68	3-28-69	40	2 1/2	10	2	9-20-70	9-30-71	12-31-72	-	503	-	500	18	919	
L-021 External & Infant Care	GOER	7,100	7,100	6-25-68	4-15-69	40	2 1/2	10	2	11-19-69	6-30-74	-	-	105	-	105	1	1,000	
L-022 Education Loan	GOER	12,000	12,000	6-28-68	-	40	2 1/2	10	2	-	-	-	-	-	-	-	-	-	
L-023 Private Investment Fund	GOER	8,000	8,000	6-29-69	11-25-69	40	3	10	2	7-28-70	14-30-72	-	-	-	-	-	-	-	
L-024 Educational Credit	FAC	1,750	1,750	6-25-70	-	40	3	10	2	-	-	-	-	-	-	-	-	-	
Sub-Total		107,900	176,227										6,284	309		136,345	77	101,399	
EL SALVADOR - 518																			
A-006 Highway Const.	GOE	4,700	4,123	11-28-58	3-23-59	20	3 1/2	-	-	-	-	-	4,123	100	4,123				
A-007 Highway Const.	GOE	5,300	5,300	10-09-59	11-06-59	18	3 1/2	-	-	-	-	-	5,300	100	5,300				
A-012 Escudaria Housing Bank	Housing Bk.	5,000	4,999	6-28-61	10-31-61	25	3	-	-	-	-	-	4,999	100	4,999				
K-013 Budget Support	GOE	8,000	8,000	11-28-61	12-13-61	40	3/4	5	3/4	-	-	-	8,000	100	8,000				
K-015 Budget Support	GOE	7,000	6,985	9-14-62	9-24-63	40	3 1/2	5	3 1/2	-	-	-	6,985	100	6,985				
L-016 Quita-Quebrada Ry. (Sup.)	GOE	2,700	2,700	12-31-62	9-01-63	40	3/4	10	3/4	-	-	-	2,700	100	2,700				
M-019 Adm. & Fiscal Reform	GOE	1,600	1,600	4-17-63	9-02-63	40	3/4	10	3/4	-	-	-	1,600	100	1,600				
L-024 Cooperative Bank	Coop. Bk.	1,200	1,200	6-12-64	8-03-65	40	2	10	3/4	-	-	-	1,200	100	1,200				
K-028 Budget Support	GOE	10,000	10,000	6-28-66	6-30-66	20	3 1/2	5	3 1/2	-	-	-	7,000	100	7,000				
EL SALVADOR - 518																			
A-011 Aerial Photography	GOE	1,800	1,800	4-18-61	10-19-61	20	3 1/2	-	-	8-31-62	3-31-65	12-31-69	1,727	32	-	1,759	97	1,750	
L-014 Industrial Credit	Ind'l S.C.	5,000	5,000	2-09-62	7-20-62	40	3/4	10	3/4	5-16-63	12-31-64	6-30-70	4,773	-	-	4,773	95	4,999	
L-017 Feasibility Studies	GOE	2,000	2,000	2-23-63	9-04-63	40	3/4	10	3/4	5-08-64	8-31-65	12-31-70	1,884	30	-	1,914	95	2,000	
L-022 Consortium Ry. Loan	GOE	13,300	13,300	4-22-64	5-26-64	40	2	10	3/4	12-23-64	1-31-69	12-31-71	6,483	2,975	271	9,333	70	11,999	
L-023 Rural Electric Coops.	Rural. Elect.	650	650	5-23-64	9-23-64	40	2	10	3/4	12-31-65	12-31-65	12-31-70	551	46	4	501	77	650	
K-025 Electric Power	Elec. Inst.	1,600	700	6-30-64	8-24-64	40	2	10	3/4	1-10-65	3-31-67	10-31-70	467	37	49	625	69	699	
L-026 UNIFEM	Cia. Fin.	3,000	3,000	6-26-65	1-31-66	20	2 1/2	5	2 1/2	6-02-66	7-31-69	7-31-70	2,917	240	601	3,917	91	2,999	
L-027 Primary School Impr.	GOE	5,300	5,300	6-29-65	2-11-66	40	2 1/2	10	1	4-08-66	2-21-70	3-31-72	652	-	-	1,139	21	3,400	
L-029 Maleria Eradication	GOE	2,000	2,000	6-30-66	5-30-67	40	2 1/2	10	1	12-29-67	3-31-71	-	761	-	-	1,462	73	1,840	
L-029 Feasibility Studies	GOE	2,000	2,000	6-30-69	4-24-70	40	3	10	2	-	-	-	-	-	-	-	-	-	
L-031 Cooperative Bank	Coop. Bk.	1,200	1,200	6-30-69	-	40	3	10	2	-	-	-	-	-	-	-	-	-	
L-032 Land Sale Guaranty	GOE	3,600	3,600	10-16-69	-	40	3	10	2	-	-	-	-	-	-	-	-	-	
L-033 Agricultural Diversification	GOE	7,200	7,200	6-24-70	-	40	3	10	2	-	-	-	-	-	-	-	-	-	
L-034 Small Enterprise Assistance	GOE	5,100	5,100	6-29-70	-	40	3	10	2	-	-	-	-	-	-	-	-	-	
L-035 Rural Electrification Assist.	GOE	3,500	3,500	6-29-70	-	40	3	10	2	-	-	-	-	-	-	-	-	-	
Sub-Total		102,800	101,000										490	60		86,035	65	71,250	

LOANS BY COUNTRY	BORROWER	AMOUNT AUTHORIZED	CURRENT AMOUNT	DATE AUTHORIZED	AGREEMENT SIGNED	TERMS				INITIAL O.P.E. YR	TERMINAL DISBURSEMENT DATE		TOTAL TRU FY 1959	FY 1970			TOTAL TRU 7-31-70	\$ DISBURSED	DA'S TRU 7-31-70
						YRS.	INT.	GRADE	INT.		ORIGINAL	REVISED		JULY/MAY	JUNE	JULY			
EL SALVADOR - 519																			
L-001 San Salvador Airport	GOES	1,600	1,600	5-26-61	8-01-61	20	3 1/2	-	-	-	-	8-26-61	-	-	-	1,600	100	1,600	
L-002 San Salvador Airport	GOES	800	753	12-14-62	2-12-63	20	3 1/2	-	-	-	-	8-31-67	-	-	-	753	100	753	
L-003 Primary School Const.	GOES	2,400	2,400	6-12-63	9-12-63	40	3/4	10	3/4	-	-	6-30-67	-	-	-	2,400	100	2,400	
L-005 IZAPAL Dev. Bank	Central Br.	4,432	4,432	6-28-63	9-12-63	40	3/4	10	3/4	-	-	12-31-67	-	-	-	4,432	100	4,432	
L-008 Central Housing Bank	WHA	3,100	3,100	6-30-64	1-31-65	40	2 1/2	10	3/4	-	-	6-30-69	-	-	-	3,100	100	3,100	
L-010 Malaria Eradication	GOES	1,635	1,635	5-09-66	10-29-66	40	2 1/2	10	1	-	-	6-30-69	-	-	-	1,635	100	1,635	
L-012 Housing Bank	FWW	3,000	3,000	3-06-68	7-17-68	40	2 1/2	10	1	-	-	6-30-70	-	-	-	3,000	100	3,000	
						30	4	8	3										
L-004 Agriculture & Livestock	Central Br.	8,900	8,900	6-18-63	9-18-63	40	3/4	10	3/4	1-07-64	6-30-66	6-30-70	8,879	51	1	-	8,861	99	8,899
L-006 Industrial Dev. Bank	Desarrollo	5,200	5,600	5-28-64	8-17-64	40	2	5	2	3/4	6-18-65	8-17-67	4,933	229	12	24	5,189	99	5,100
						20	2	5	2										
L-007 Rural Health Units & Posts	GOES	700	700	6-30-64	4-02-65	40	2	10	2	3/4	9-08-65	10-02-69	515	182	-	-	697	99	700
L-010 A Malaria Eradication (Inc.)	GOES	1,030	1,030	4-28-68	5-16-69	40	2 1/2	10	2	-	-	10-15-69	12-31-70	-	90	300	390	37	690
L-011 American School	Am. School	400	400	5-09-67	9-29-67	40	2 1/2	10	2	1-30-68	12-31-69	6-30-70	121	257	3	-	381	37	399
						25	3 1/2	5	2										
L-013 Education Reform	GOES	1,900	1,900	6-28-68	11-28-69	40	2 1/2	10	2	-	-	8-31-71	-	-	-	-	-	-	-
L-014 Ed. Reform - Inc. Inv Exp.	GOES	8,200	8,200	6-30-69	-	40	3	10	2	-	-	-	-	-	-	-	-	-	-
L-015 Development Bank	INMAE	4,800	4,800	7-03-69	-	25	5	7	5	-	-	-	-	-	-	-	-	-	-
L-016 Credit Union Development	PRESEBES	2,000	2,000	8-17-70	-	25	3	7	2	-	-	-	-	-	-	-	-	-	-
L-017 Feasibility Studies	GOES	1,000	1,000	6-17-70	-	40	3	10	2	-	-	-	-	-	-	-	-	-	-
Sub-Total		31,165	31,070											106	324		32,478	63	32,798
GUATEMALA - 520																			
A-004 El Molino Hwy. Const.	GOG	2,023	2,023	8-29-60	1-28-61	13	3 1/2	-	-	-	-	6-30-67	-	-	-	2,023	100	2,023	
A-005 Rio Hondo Hwy. Const.	GOG	5,400	5,399	11-29-60	1-28-61	15	3 1/2	-	-	-	-	6-30-68	-	-	-	5,399	100	5,399	
M-007 American School Const.	Am. School	700	700	6-08-63	11-27-63	40	3/4	10	3/4	-	-	7-06-66	-	-	-	700	100	700	
						30	2	-	-										
L-011 Malaria Eradication	GOG	1,550	1,550	12-02-65	8-17-66	40	2 1/2	10	1	-	-	12-31-69	-	-	-	1,550	100	1,500	
COLOMBIA - 521																			
A-002 Rubber Production	Bank Const.	5,000	5,000	1-16-59	8-17-59	14	5/	-	-	9-19-60	12-31-66	12-31-72	2,860	50	50	-	2,960	58	5,000
L-008 Feasibility Studies	GOG	2,000	2,000	4-27-61	9-01-62	40	2	10	1	3/4	9-15-66	3-31-67	521	311	16	69	1,015	90	1,662
L-009 Customs Modernization	GOG	700	700	6-30-64	8-17-65	40	2	10	3/4	3-28-66	11-30-66	12-31-69	168	162	-	350	50	344	
L-011 A Malaria Eradication (Inc.)	GOG	630	630	5-09-69	7-30-69	40	3	10	2	10-28-69	3-31-71	-	-	203	-	87	290	46	630
L-012 Rio Hondo Hwy. (Int. A-005)	GOG	758	758	9-30-66	10-14-68	40	2 1/2	10	1	1-10-67	12-15-68	6-30-72	610	13	-	-	623	82	758
L-013 Industrial Dev. Bank	FIASA	5,000	5,000	6-23-67	9-25-67	40	2 1/2	10	1	4-02-69	9-01-70	9-01-71	-	1,149	78	83	1,250	25	4,850
						80	2 1/2	5	1 1/2										
L-014 Property Tax Development	GOG	2,800	2,800	6-09-67	7-10-67	40	2 1/2	10	1	2-28-69	6-30-71	6-30-72	-	494	131	56	781	35	2,011
L-015 Primary School Const.	GOG	8,600	8,600	6-28-63	11-15-63	40	2 1/2	10	2	-	-	1-01-73	-	-	-	-	-	-	-
L-016 Feasibility Studies & Surveys	GOG	2,900	2,900	6-30-69	-	40	3	10	2	-	-	-	-	-	-	-	-	-	-
L-017 Skull Man, Dev. Fund	EXPCM	2,100	2,100	7-03-69	-	40	3	10	2	-	-	-	-	-	-	-	-	-	-
L-018 Rural Development Program	GOG	23,000	23,000	8-23-70	-	40	3	10	2	-	-	-	-	-	-	-	-	-	-
Sub-Total		61,793	61,760											277	231		16,921	27	25,197
GUAYANA - 524																			
L-001 MacKenzie Road	GOG	5,500	7,500	6-30-65	10-27-65	40	2 1/2	10	1	12-21-65	12-31-69	6-30-70	7,404	90	-	-	7,491	99	7,500
L-002 Private Investment Fund	GOG	8,000	8,000	3-05-66	5-21-66	40	2 1/2	10	1	7-20-66	3-31-69	6-30-71	770	37	-	40	817	40	1,850
L-003 Feasibility Studies	GOG	600	1,600	10-19-66	11-03-66	40	2 1/2	10	1	12-23-66	12-31-69	7-31-71	643	170	33	65	1,111	69	1,770
L-004 Coastal Road	GOG	7,500	7,500	6-23-67	10-07-67	40	2 1/2	10	1	3-04-68	1-31-71	-	1,957	314	104	-	4,717	62	7,270
L-005 Airport Improvements	GOG	1,100	1,100	1-20-68	2-20-68	40	2 1/2	10	2	5-20-68	6-30-70	12-31-70	604	275	-	-	1,079	98	1,083
L-006 Small Public Works Program	GOG	2,500	2,436	6-23-68	6-29-68	30	3 1/2	5	3 1/2	9-11-68	3-31-69	3-31-72	2,413	-	-	-	2,413	98	2,413
L-007 Water Supply Impr.	GOG	2,600	2,600	6-23-68	8-24-68	40	2 1/2	10	2	10-01-68	6-30-71	-	157	210	11	15	303	15	574
L-008 Rice Modernization	GOG	12,900	12,900	11-30-68	3-11-69	40	2 1/2	10	2	10-22-69	3-11-72	7-31-73	-	233	-	9	136	1	9,427
L-009 Res. Studies & Pre-Res. Inv.	GOG	2,200	2,200	6-30-69	8-16-69	40	3	10	2	10-15-69	7-31-72	-	-	-	-	-	-	-	-
Sub-Total		37,200	40,139											352	233		18,107	45	31,165
HAWAII - 521																			
A-001 Irrigation	GOH	4,300	4,251	2-13-59	5-26-59	30	3 1/2	-	-	-	-	9-30-63	-	-	-	4,251	100	4,251	
A-003 Sugar Plantation	Agri. Corp.	250	237	2-21-61	8-23-61	5	5 3/4	-	-	-	-	6-30-65	-	-	-	237	100	237	
Sub-Total		4,550	4,488														4,488	100	4,488

LOANS BY COUNTRY	BORROWER	AMOUNT AUTHORIZED	CURRENT AMOUNT	DATE AUTHORIZED	AGREEMENT SIGNED	TERMS				INITIAL DATE 1972	TERMINAL DISBURSEMENT DATE		TOTAL THRU FY 1972	DISBURSEMENTS			TOTAL THRU 7-31-70	% DISBURSED	DA'S THRU 7-31-70
						YRS.	INT.	GRACE	LTV.		ORIGINAL	REVISED		JULY/72	JUNE	JULY			
DOMINICAN - 532																			
L-002 Highway Development	COH	5,000	5,000	1-04-68	5-16-68	20	3 1/2	-	-	-	-	12-31-65	-	-	-	5,000	100	5,000	
L-003 Canalized Hydroelectric	PISE	2,800	2,800	6-20-60	9-09-60	25	3 1/2	-	-	-	-	6-02-64	-	-	-	2,800	100	2,800	
L-005 Aided Self-Help Schools	COH	500	500	6-29-62	7-03-62	40	3/4	10	3/4	-	-	12-31-63	-	-	-	500	100	500	
L-007 Tula Union Housing	SITIAJEROO	400	398	8-16-62	1-26-63	40	3/4	10	3/4	-	-	4-27-66	-	-	-	398	100	398	
L-008 Small Water Supply Systems	SANAA	1,050	1,050	6-12-63	8-22-63	40	2 3/4	3	2	-	-	6-30-68	-	-	-	1,050	100	1,050	
L-010 Industrial Development	Fin. Hbn.	5,000	4,997	5-28-61	8-06-61	40	2	10	3/4	-	-	6-30-68	-	-	-	4,997	100	4,997	
L-012 Forest Fire Access Road	COH	500	482	11-27-64	12-14-64	40	2 1/2	10	1	-	-	1-31-69	-	-	-	482	100	482	
L-014 Malaria Eradication	COH	1,170	1,170	12-02-65	1-12-66	40	2 1/2	10	1	-	-	6-30-69	-	-	-	1,170	100	1,170	
EL SALVADOR - 533																			
L-011 Cooperative Housing	Ek. Naeñ	2,000	2,000	6-30-64	3-15-65	40	2	10	3/4	7-28-65	6-30-67	7-31-69	1,812	117	-	1,929	96	1,929	
L-013 Farm to Market Access Rd.	COH	5,200	5,200	9-23-65	11-23-65	40	2 1/2	10	1	7-18-68	12-31-69	12-31-72	1,560	482	-	2,042	39	2,660	
L-014-A Malaria Eradication (Inc.)	COH	1,480	1,480	5-31-68	9-05-68	40	2 1/2	10	2	11-01-68	12-31-70	-	799	109	-	978	66	1,480	
L-015 Feasibility Studies	COH	500	500	2-12-66	2-23-66	40	2 1/2	10	1	6-01-66	12-31-66	10-31-69	350	-	-	350	72	484	
L-015-A Feasibility Studies (Inc.)	COH	500	500	5-09-69	11-28-69	40	3	10	2	-	-	12-31-71	-	-	-	-	-	-	
L-016 Development Bank (Ind)	Fin. Hbn.	3,000	3,000	5-31-66	8-21-66	40	2 1/2	10	1	2-15-67	6-30-70	12-31-70	1,079	2,047	-	2,926	97	2,929	
L-017 Secondary Education	COH	7,000	7,000	6-27-67	9-19-67	40	2 1/2	10	1	7-09-68	12-31-72	-	89	542	43	114	788	9	1,495
L-018 Agr. Credit & Storage	COH	9,500	9,500	6-25-68	4-16-69	40	2 1/2	10	2	10-08-69	12-31-71	-	-	-	1,071	-	1,071	11	3,849
L-019 Rural Land Inv. & Agr. Dev.	COH	2,700	2,700	5-22-70	-	40	3	10	2	-	-	-	-	-	-	-	-	-	
Sub-Total		48,400	48,377											43	1,185	26,551	55	30,435	
JAMAICA - 534																			
L-002/L-002 Low-Cost Housing	COH	1,700	2,800	3-30-63	5-01-63	30	2	-	-	-	-	12-31-69	-	-	-	2,800	100	2,800	
L-001/L-001 Community Water Supply	COH	2,200	3,700	6-29-62	8-31-62	40	3 1/2	5	7	10-00-64	7-31-64	12-31-70	3,099	34	-	3,133	84	3,285	
L-004 Feasibility Studies	COH	1,300	1,300	6-30-64	11-18-64	25	3 1/2	5	3 1/2	2-05-65	12-31-68	3-31-72	631	3	-	634	48	1,182	
L-005 Dairy Development	COH	3,800	2,680	6-29-65	9-20-65	25	3 1/2	5	1	2-01-66	12-31-68	6-30-71	661	721	-	1,582	59	2,600	
Sub-Total		9,000	10,480													8,189	75	9,247	
MEXICO - 535																			
L-020 Supervised Agr.	H. Fin.	20,000	20,000	6-29-62	6-30-62	40	3/4	10	3/4	-	-	8-25-65	-	-	-	20,000	100	20,000	
L-020-A Supervised Agr. (Inc.)	H. Fin.	20,000	20,000	5-28-65	8-20-65	25	2 1/2	5	2 1/2	-	-	6-30-67	-	-	-	20,000	100	20,000	
L-022 Low-Cost Housing	H. Fin.	20,000	20,000	7-28-63	2-28-64	30	2	2	2	-	-	6-30-69	-	-	-	20,000	100	20,000	
L-024 University of Guadalajara	U. Guad.	3,000	2,600	6-29-65	7-26-66	20	3 1/2	5	3 1/2	-	-	4-30-70	-	-	-	2,600	100	2,600	
L-023 Chapingo National Agr. Cen.	N. Fin.	2,000	1,000	5-04-63	9-22-64	20	3 1/2	2	3 1/2	8-24-65	10-31-66	11-30-69	1,616	283	-	1,899	95	1,900	
Sub-Total		65,000	64,500													64,499	99	64,500	
NICARAGUA - 536																			
L-001 Matagalpa Public Utilities	M. Matagalpa	600	585	1-30-59	5-07-59	25	3 1/2	5	3 1/2	-	-	3-31-63	-	-	-	585	100	585	
L-002 Rio San Hydroelectric	ENELIP	2,500	2,500	5-27-60	6-30-60	25	3 1/2	-	-	-	-	7-25-65	-	-	-	2,500	100	2,500	
L-003 Highway Construction	COH	4,300	4,300	5-25-61	9-25-61	15	3 1/2	-	-	-	-	1-01-61	-	-	-	4,300	100	4,300	
L-004 Elementary School Const.	COH	540	539	5-26-61	5-05-62	20	3/4	-	-	-	-	6-29-65	-	-	-	539	100	539	
L-005/L-005 Second Pkg. Const.	COH	2,800	3,695	6-29-61	11-21-62	40	3/4	10	3/4	-	-	7-31-68	-	-	-	3,695	100	3,695	
L-006 Las Mercedes Airport	COH	1,600	1,600	6-27-61	7-23-63	40	3/4	10	3/4	-	-	11-30-67	-	-	-	1,600	100	1,600	
L-007 Rural Electric Coop.	Coop. Abarte.	400	400	11-29-63	5-13-64	30	2	5	2	-	-	12-31-68	-	-	-	400	100	400	
L-008 Central American U.	CAU	700	700	6-22-64	11-11-64	40	2	10	3/4	-	-	9-30-68	-	-	-	700	100	700	
L-010 Private Dev. Bank	COH	3,000	2,979	4-17-65	5-25-65	40	2 1/2	10	1	-	-	9-25-68	-	-	-	2,979	100	2,979	
L-011 Malaria Eradication	COH	2,070	2,070	12-02-65	4-15-66	40	2 1/2	10	1	-	-	11-30-69	-	-	-	2,070	100	2,070	
L-015 Supp. Agr.	Agr. Ref.	2,000	1,000	5-28-66	11-29-66	40	2 1/2	10	1	-	-	9-30-69	-	-	-	1,000	100	1,000	
L-017 Housing Program	Ek. Vivienda	3,700	3,700	6-30-66	3-16-67	40	2 1/2	10	1	-	-	12-31-69	-	-	-	3,700	100	3,700	

LOANS BY COUNTRY	BORROWER	AMOUNT AUTHORIZED	CURRENT AMOUNT	DATE AUTHORIZED	AMOUNT SURVED	TERMS				INITIAL CP'S REP	FISCAL YEAR		TOTAL THRU FY 1979	DISBURSEMENTS			DA'S TRU 7-31-70				
						YES	INT.	GARAN	INT.		DISBURSEMENT DATE	THRU		FY 1970	FY 1971	TOTAL THRU 7-31-70		% DISBURSED			
																			JULY-69	JUNE	JUNE
GUATEMALA - 5th (Continued)																					
L-009 Industrial Refinancing	INDUSCO	4,000	4,000	9-29-64	12-23-64	40	2	10	2	2/4	4-29-65	12-31-67	5-31-69	3,930	37	-	-	3,959	99	3,999	
L-011 Feasibility Studies	GOB	1,300	1,300	6-15-65	2-18-66	25	2	1/2	10	1	5-12-66	6-30-69	10-31-70	283	237	13	-	513	39	1,300	
L-012 Geostrol Survey	GOB	5,400	5,400	6-29-65	2-28-66	40	2	1/2	10	1	6-28-66	6-30-70	12-31-71	2,258	1,545	130	37	4,270	79	4,330	
L-013-A Malaria Eradication (Inc.)	IOGH	1,864	1,864	5-31-68	8-23-68	40	2	1/2	10	2	10-29-68	6-30-71	-	224	910	66	-	1,230	66	1,864	
L-014 Urban School Const.	GOB	1,500	1,500	5-28-66	10-06-66	40	2	1/2	10	1	9-29-67	12-31-69	5-31-71	521	471	107	-	1,100	73	1,500	
L-016 Private Dev. Bank (2nd)	ONE	5,000	5,000	6-22-66	9-27-66	40	2	1/2	10	1	11-21-66	9-27-69	9-27-70	1,325	1,355	209	294	3,213	62	4,999	
L-016 Industrial Refinancing (2nd)	INDUSCO	5,000	5,000	6-20-67	10-23-67	40	2	1/2	10	1	4-25-68	10-23-70	-	546	1,415	158	134	2,254	45	3,641	
L-017 Refinancing - Small Enterprise	FIN	2,000	2,000	6-19-67	10-23-67	25	3	1/2	5	3	7-03-68	10-23-70	-	595	573	629	(843)	924	46	1,767	
L-021 Rural Electric Coop	GOB	10,200	10,200	6-28-68	8-23-68	40	2	1/2	10	2	3-28-69	4-23-71	2-28-72	90	2,489	761	586	3,926	38	6,507	
L-022 Basic Crop Production	GOB	9,400	9,400	6-25-68	8-23-68	40	2	1/2	10	2	10-08-68	8-23-71	-	299	468	13	352	1,137	12	3,629	
L-023 Health Centers	GOB	2,200	2,200	6-24-68	8-23-68	40	2	1/2	10	2	11-21-68	8-23-71	-	2	292	155	130	578	26	1,225	
Sub-Total		72,124	71,932											2,845	650			47,121	65	58,888	
PANAMA - 5th																					
L-002 Feeder Roads	GOB	5,300	5,300	8-16-60	11-30-60	15	3	1/2	1	3	1/2	-	-	-	-	-	-	5,300	100	5,300	
L-004 Housing Project	GOB	2,477	2,477	5-20-61	2-09-62	22	1	-	-	-	-	-	-	-	-	-	-	2,477	100	2,477	
L-005 Panama Water & Sewer	IDAH	6,000	6,000	12-31-62	2-06-63	40	3	1/2	10	2	-	-	-	-	-	-	-	6,000	100	6,000	
L-006 Industrial Dev. Bank	DESA	5,100	5,099	11-18-63	12-23-63	20	2	-	-	2	-	-	-	-	-	-	-	5,099	100	5,099	
L-007 Industrial Survey	GOB	2,400	2,400	6-20-64	8-06-64	40	2	-	-	2	-	-	-	-	-	-	-	2,400	100	2,400	
L-008 Feasibility Studies	GOB	2,000	2,000	9-14-64	11-02-64	40	2	-	-	2	-	-	-	-	-	-	-	956	100	956	
L-009 Budget Support	GOB	3,500	3,499	9-18-64	11-07-64	10	4	1/2	3	4	1/2	-	-	-	-	-	-	3,499	100	3,499	
L-010 Agricultural Dev.	GOB	2,400	2,400	9-29-64	11-02-64	40	2	-	-	3	-	-	-	-	-	-	-	2,400	100	2,400	
L-012 Budget Support	GOB	3,500	3,499	9-18-64	11-07-64	10	4	1/2	3	4	1/2	-	-	-	-	-	-	3,499	100	3,499	
L-013 Self-Help School Const.	GOB	1,700	1,700	5-23-65	10-27-65	40	2	1/2	10	1	-	-	-	-	-	-	-	1,700	100	1,700	
L-015 San Wall Construct. & Repair	GOB	500	489	11-23-66	1-04-67	30	3	1/2	5	3	1/2	-	-	-	-	-	-	489	100	489	
L-022 Agrarian Reform Resettlement Agr. Ref.		300	296	11-29-66	1-16-67	30	3	1/2	5	3	1/2	-	-	-	-	-	-	296	100	296	
L-007-A Geostrol Survey (Inc.)	GOB	330	330	5-28-68	6-26-68	40	2	1/2	10	2	3-12-69	6-30-70	10-15-70	112	67	6	2	157	36	231	
L-008-A Feasibility Studies (Inc.)	IOGH	1,000	900	6-09-67	6-19-70	40	2	1/2	10	1	-	-	-	-	-	-	-	-	-	-	
L-011 Colca Sewer	IDAH	1,300	500	6-07-65	1-10-65	40	2	1/2	10	1	11-30-67	7-01-70	12-31-70	2	-	-	2	4	1	349	
L-014 Development Bank (2nd)	DESA	4,000	4,000	6-17-66	10-19-66	20	3	-	-	3	12-21-66	7-01-69	6-30-71	1,473	617	110	68	2,260	56	4,000	
L-015 Savings & Loan System	DESA	2,100	2,100	6-27-66	9-12-66	25	2	1/2	5	2	8-05-68	7-01-68	7-01-70	204	920	523	-	1,637	77	1,637	
L-016 Resettlement Low-Cost Housing	FIN	3,000	3,000	7-01-66	7-01-66	30	3	1/2	5	3	1/2	9-00-66	12-31-67	9-30-70	2,454	175	120	-	2,809	93	3,000
L-017 Panama City Overpass & Bridges	GOB	1,100	1,100	11-04-66	1-04-67	40	2	1/2	10	1	2-17-67	12-31-69	4-30-71	272	350	19	-	941	85	1,098	
L-018 Trans-isthmian Highway	GOB	3,000	3,000	11-04-66	1-04-67	40	2	1/2	10	1	4-23-67	12-31-69	12-31-70	294	920	484	9	1,607	53	3,000	
L-019 Water & Sewerage	IDAH	3,055	3,055	11-04-66	1-04-67	40	2	1/2	10	1	8-24-67	6-30-70	9-30-70	1,687	869	197	-	2,931	23	3,040	
L-021 Urban Community Resettlement	GOB	1,800	1,800	11-29-66	1-04-67	30	3	1/2	5	3	1/2	10-30-67	6-30-69	6-30-71	200	-	-	-	200	11	1,800
L-003 Malaria Eradication	GOB	1,500	1,440	5-20-67	2-25-68	40	2	1/2	10	1	3-06-69	2-28-71	-	60	268	37	-	369	25	700	
L-004 CAN Highway Projects	GOB	1,100	1,100	6-14-67	7-07-67	40	2	1/2	10	1	11-21-67	12-31-69	12-31-70	60	448	273	-	769	69	1,046	
L-005 Panama City Streets	GOB	2,000	2,000	6-14-67	7-07-67	40	2	1/2	10	1	11-21-67	12-31-69	6-30-71	325	705	66	15	1,111	55	1,564	
L-006 Panama City Sewerage Fac.	IDAH	6,600	6,600	6-14-67	7-07-67	40	2	1/2	10	1	7-15-68	6-30-70	1-31-73	17	350	69	6	318	5	1,213	
L-007 Cooperative Housing	FIN	3,500	3,500	6-08-67	9-21-67	40	2	1/2	10	1	5-31-68	12-31-70	-	88	129	71	-	288	8	1,365	
L-008 Water Supply Systems	IDAH	15,000	15,000	6-18-68	5-06-69	40	2	1/2	10	2	5-27-70	11-06-74	5-27-70	-	-	-	-	-	-	-	
L-009 FUMAR - Rural Mobile Health	GOB	500	500	6-25-68	1-02-70	40	2	1/2	5	2	-	-	-	-	-	-	-	-	-	-	
L-001 U.S.S.R. Maria La Amalgua	USA	1,300	1,300	4-05-69	5-29-69	40	2	-	-	2	7-30-69	6-30-72	-	-	-	-	-	-	-	427	
L-002 Urban Development	GOB	300	300	6-30-69	-	40	3	10	2	2	-	-	-	-	-	-	-	-	-	-	
L-003 Small Farmer Imp.	GOB	3,500	3,500	6-30-69	11-25-69	40	3	10	2	2	3-09-70	5-25-73	-	-	-	204	70	274	7	725	
L-004 Dev. Administration	GOB	3,700	3,700	6-30-69	2-27-70	40	3	10	2	2	-	-	-	-	-	-	-	-	-	-	
L-005 Educational Development	GOB	15,500	15,500	6-25-70	-	40	3	10	2	2	-	-	-	-	-	-	-	-	-	-	
Sub-Total		103,405	100,807											2,159	472			49,824	49	59,983	

LOANS BY COUNTRY	BORROWER	AMOUNT AUTHORIZED	CURRENT AMOUNT	DATE AUTHORIZED	AGREEMENT SIGNED	TERMS										DISBURSEMENTS				DA'S TRM 7-31-70	
						YRS.		MO.		INITIAL	SERIAL	DISBURSEMENT DATE ORIGINAL	DATE REVISED	TOTAL TRM FY 1969	FY 1970		FY 1971	TOTAL TRM 7-31-70			
						1	2	1	2						1	2	JULY		AUG		JULY
PARAGUAY - 566																					
A-003 Water Supply System	C. O'Hara Sen.	1,000	1,000	6-20-58	9-05-58	20	3	1/2	-	-	-	-	3-15-59	-	-	1,000	100	1,000			
A-004 Road Improvements	COF	2,499	2,499	4-04-58	10-29-58	25	3	1/2	-	-	-	-	4-13-58	-	-	2,499	100	2,499			
A-006 Telecommunications	COF	1,000	1,000	6-24-59	5-25-61	10	3	1/2	-	-	-	-	3-09-66	-	-	1,000	100	1,000			
A-008 Road Improvement	COF	7,100	7,050	6-28-61	10-25-61	20	3	1/2	-	-	-	-	9-30-66	-	-	7,050	100	7,050			
L-012 Agr. Production (Inc.)	Dev. Rk.	3,000	3,000	5-28-61	9-25-61	40	2	1/2	10	2	3/4	8-10-65	12-31-66	6-30-73	2,637	91	-	11	2,959	99	2,999
L-012-A Agr. Production (Inc.)	Dev. Rk.	2,000	1,000	6-21-61	10-04-61	20	2	1/2	10	2	1/2	12-05-68	12-31-69	6-30-73	95	327	23	54	499	49	999
L-012-B Agr. Production (Inc.)	Dev. Rk.	5,000	5,000	6-20-61	9-19-61	25	4	1/2	5	4	1/2	12-02-69	-	-	-	84	-	-	120	2	1,800
L-015 Brazil Road Rehab.	COF	4,600	4,600	6-30-66	1-06-67	40	2	1/2	10	1	-	1-26-68	12-31-70	-	-	88	4	-	92	1	960
L-016 American Airport Rehab.	COF	4,700	4,700	6-30-66	4-10-67	40	2	1/2	10	1	-	11-07-67	9-30-69	12-31-70	2,076	2,203	253	-	4,568	98	4,972
L-018 Malaria Eradication	COF	1,900	1,900	5-01-67	1-29-68	40	2	1/2	10	1	-	5-28-68	12-31-72	6-30-73	326	505	73	-	904	47	1,800
L-019 Private Dev. Bank - Agr.	COMESA	2,600	2,600	6-29-69	-	20	3	-	5	2	-	-	-	-	-	-	-	-	-	-	-
L-020 Electrification Project	ARMS	425	425	7-10-69	9-22-69	25	3	-	5	5	-	4-22-70	-	-	-	-	-	-	-	-	-
L-021 Educational Dev. Program	COF	4,200	4,200	6-26-70	-	40	3	-	10	2	-	-	-	-	-	-	-	-	-	-	-
Sub-Total		37,100	37,000														353	149	10,687	23	24,128
PERU - 567																					
A-011 Ayapia - Pacallpa Ry.	COF	4,500	4,500	10-23-59	12-19-60	25	3	1/2	-	-	-	-	9-23-66	-	-	4,500	100	4,500			
A-013 Home Savings Program	COF	7,500	7,500	7-25-59	7-27-61	20	4	-	-	-	-	-	8-01-69	-	-	7,500	100	7,500			
A-019 Penetration Roads	COF	1,500	1,340	6-12-61	9-06-61	20	3	1/2	-	-	-	-	11-30-64	-	-	1,340	100	1,340			
A-023 Agricultural Settlement	COF	9,000	9,000	6-12-61	9-04-61	20	3	1/2	-	-	-	-	8-28-67	-	-	9,000	100	9,000			
X-021 Flood Emergency Relief	COF	6,000	1,108	12-09-61	2-06-62	40	3	1/2	5	3/4	-	-	1-18-63	-	-	1,108	100	1,168			
L-023 Feasibility Studies	COF	3,000	2,979	6-03-62	3-15-63	40	3	1/2	10	3/4	-	-	8-15-68	-	-	2,979	100	2,979			
L-024 Canal del Pato Hydro.	Parusa	2,200	2,200	8-29-63	3-12-64	40	3	1/2	10	3/4	-	-	3-31-69	-	-	2,200	100	2,200			
L-025 Pacifica Hydro.	E.S. Andina	2,500	2,500	12-12-63	10-16-64	40	3	1/2	10	3/4	-	-	3-31-69	-	-	2,500	100	2,500			
L-029 Agricultural Dev.	COF	6,600	6,599	3-05-64	7-08-64	40	2	1/2	10	5	3/4	-	2-28-59	-	-	6,599	100	6,599			
L-032 Lima Water & Sewerage	COF	8,600	8,600	2-09-62	3-26-63	40	2	3/4	10	3/4	1-22-65	12-31-66	6-30-71	7,844	13	-	-	7,857	91	8,536	
L-037 Tulumayo-La Norada Ry.	COF	1,900	1,900	1-27-64	4-21-64	40	2	1/2	10	3/4	4-13-65	12-31-67	12-31-69	1,739	106	-	-	1,838	96	1,900	
L-038 Pasa Cocha Tursuto Ry.	COF	12,100	12,100	3-03-64	5-19-64	40	2	1/2	10	3/4	10-22-65	6-30-73	-	-	-	2,610	21	12,100			
L-034 Cooperative Housing	COF	6,000	6,000	6-18-64	2-15-65	40	2	1/2	10	3/4	8-03-65	3-31-68	12-31-70	3,700	1,997	130	(9)	5,758	95	6,000	
L-042 Univ. Agraria La Molina	COF	2,000	2,000	3-10-65	8-24-65	40	2	1/2	10	1	7-20-66	6-30-67	8-31-70	1,233	473	12	40	2,381	94	1,999	
L-045 Corporacion Popular	COF	2,100	585	5-31-66	9-20-66	40	2	1/2	10	1	12-09-66	12-31-67	12-31-70	330	14	2	-	355	27	585	
L-046 Mantaro Valley Elec. Coop.	COF	1,600	1,600	6-21-66	1-26-67	40	2	1/2	10	1	3-31-67	12-31-68	9-30-70	1,102	361	70	-	1,536	97	1,600	
L-047 Agricultural Credit	COF	9,000	7,598	6-30-68	11-23-68	40	2	1/2	10	1	3-27-67	4-30-68	12-31-70	5,971	64	318	-	6,953	66	7,583	
L-048-A Natural Resources	COF	1,800	1,800	3-02-67	5-28-67	40	2	1/2	10	1	12-13-67	10-31-70	10-31-71	375	147	07	-	509	32	1,703	
L-048-B Feasibility Studies	COF	1,400	1,400	3-22-67	2-05-68	40	2	1/2	10	1	4-01-68	3-31-71	-	-	-	-	-	-	175	12	400
L-049 Road Harrowing	COF	5,500	5,500	2-26-67	7-22-68	40	2	1/2	10	1	-	9-30-71	-	-	-	-	-	-	-	-	-
L-051 Private Investment Fund	COF	4,500	4,500	6-19-67	4-27-68	40	2	1/2	10	1	7-25-68	12-31-70	-	-	-	220	3	52	275	3	446
Sub-Total		122,100	93,822														797	23	66,715	71	68,206
SIERRA LEONE - 508																					
X-001 Economic Development	COF	1,000	1,000	7-24-64	11-17-64	20	3	1/2	5	3 1/2	-	-	11-16-65	-	-	1,000	100	1,000			
Sub-Total		1,000	1,000														1,000	100	1,000		
URUGUAY - 568																					
X-022 UIC Telephone Expansion	Adm. Gen.	8,800	8,784	3-20-59	9-03-59	20	3	1/2	-	-	-	-	8-30-68	-	-	8,784	100	8,784			
L-015 Road Construction	Mortgage Bank	6,000	6,000	1-28-63	2-28-63	40	3	1/2	10	3/4	-	-	5-31-63	-	-	6,000	100	6,000			
L-019 Fertilizer Imports	Bk. Oriental	5,000	5,000	5-26-66	10-31-66	40	2	1/2	10	1	6-14-67	3-31-68	9-30-70	2,916	1,356	346	47	4,665	97	4,994	
L-020 Carrasco Airport	Bk. Oriental	775	775	2-16-67	2-02-68	40	2	1/2	10	1	7-01-68	12-31-69	6-30-71	1	44	1	-	57	5	752	
L-020-A Carrasco Airport (Inc.)	Bk. Oriental	400	400	5-19-70	-	40	3	-	10	2	-	-	-	-	-	-	-	-	-	-	
L-021 Agricultural Sector	COU	15,000	14,994	2-22-68	3-27-68	40	2	1/2	10	2	6-05-68	8-31-69	12-31-70	3,674	8,312	314	294	12,791	85	14,990	
L-022 Capital Goods	COU	15,000	15,000	7-15-69	10-17-69	40	3	-	10	2	2-20-70	3-01-73	-	-	-	-	-	-	-	-	4,800
Sub-Total		50,975	50,973														1,061	361	28,887	84	39,990

LOANS BY COUNTRY	DISBORER	AMOUNT AUTHORIZED	CURRENT AMOUNT	DWCY AUTHORIZED	ADJUSTMENT CLEARED	TERMS				INITIAL CP'S INC	ORIGINAL DISBURSEMENT DATE		TOTAL TDSY FY 1969	DISBURSEMENT			TOTAL TDSY 7-31-70	% DISBURSED	DA'S THRU 7-31-70
						YRS.	INT.	GRACH	DE.		ORIGINAL	REVISED		FY 1970	FY 1971	FY 1972			
													JUN/JUL	JUL	JUL				
VIENNAMESE - 528																			
A-001 Mendees Housing	Vi. Overno	5,000	5,000	11-29-60	3-25-61	15	5	-	-	-	-	12-10-63	-	-	-	5,000	100	5,000	
A-002 Central Bank Savings	Vi. Overno	10,000	10,000	6-28-61	12-17-61	20	4	-	-	-	-	6-30-65	-	-	-	10,000	100	10,000	
L-003 Overpriced Agriculture	Vi. Agr.	10,000	10,000	4-10-62	9-14-62	20	3/4	5	3/4	-	-	11-23-66	-	-	-	10,000	100	10,000	
L-004 Risk Clearance	F.C.D.	30,000	30,000	9-17-62	11-30-62	29	3/4	10	3/4	-	-	12-31-69	-	-	-	30,000	100	30,000	
	Sub-Total	55,000	55,000													55,000	100	55,000	
REGIONAL - 506																			
L-003 Rice Loan Dept.	CAREI	10,000	9,997	11-12-63	11-29-63	40	1/4	10	3/4	-	-	6-30-67	-	-	-	9,997	100	9,997	
L-002 Feasibility Studies	CAREI	2,500	2,500	5-31-63	11-29-63	10	3/4	10	3/4	4-23-64	7-31-66	12-31-70	1,830	368	17	25	2,249	89	2,189
L-004 Feasibility Studies	CAREI	10,000	10,000	5-04-64	5-11-64	40	2	10	3/4	7-21-64	5-01-67	12-31-70	8,122	1,091	79	66	9,698	96	9,990
L-006 Economic Integration	CAREI	35,000	35,000	5-23-65	7-29-65	40	2 1/2	10	1	10-19-66	7-29-70	12-31-71	9,746	6,473	1,161	362	17,742	50	25,847
L-007 Economic Integration (2nd)	CAREI	20,000	20,000	6-30-67	1-23-68	40	2 1/2	10	1	5-22-68	12-31-72	-	-	180	-	298	446	2	2,149
L-008 Economic Integration (3rd)	CAREI	30,000	30,000	7-05-68	4-25-69	40	2 1/2	10	2	12-16-69	6-30-73	-	-	-	-	-	-	-	-
L-009 CA Monetary Stabilization Fund	CA Gen. Exp.	10,000	10,000	6-29-70	-	25	3	5	2	-	-	-	-	-	-	-	-	-	-
L-010 Export Industries & Tourism	CAREI	30,000	30,000	6-19-70	-	40	3	10	2	-	-	-	-	-	-	-	-	-	-
	Sub-Total	147,500	147,497											1,837	711	40,692	27	51,146	
REGIONAL - 508																			
L-001 Industrial Relending	CAREI	5,000	5,000	6-28-61	8-16-62	15	4	1	4	-	-	6-30-68	-	-	-	5,000	100	5,000	
L-002 National Development	P.A. Dev.	325	325	4-01-68	6-04-68	30	2 1/2	10	2 1/2	8-12-68	6-30-71	-	-	150	-	-	150	46	325
L-003 Office Diversification	OP-100	5,000	5,000	5-28-70	-	40	3	10	2	-	-	-	-	-	-	5,250	49	5,329	
	Sub-Total	10,325	10,325																
REGIONAL - 538																			
L-001 Caribbean Development Loan	C. Dev. Bd.	10,000	10,000	6-30-70	-	40	3	10	2	-	-	-	-	-	-	-	-	-	-
	Sub-Total	10,000	10,000																
GRAND TOTAL		\$3,811,783	\$3,744,092											40,337	17,765	2,784,217	73	3,056,533	

Active Loans : 240
 Fully Disbursed Loans: 145
 Cancelled Loans : 15
 Repaid Loans : 4
 405

a/ Less than 1%

b/ 5% per annum on disbursed balance of the loan devoted to Priority Projects by the Borrower for the first 5 years following disbursement and 5% thereafter; 2% per annum on the remainder of the disbursed balance of the loan.

c/ The original Loan Agreement called for interest at 5 3/4%; the first amendment 5%; and, the second amendment 3%.

d/ Amortization at \$1,000 per year for the first 5 years; \$9,000 per year for the next 5 years.

e/ 3 1/2% until a National Water Authority is established.

f/ Amortization shall be at the reduced rate of 1% of the principal per annum during a period of not to exceed 10 years after the date of the first disbursement.

PROPOSED FY 71 LOANS

(Millions)

AGRICULTURE

EDUCATION

<u>Bolivia</u>	--	Basic crop production loan under consideration to finance seed, fertilizer, storage facilities and chemicals.	--	
<u>Brazil</u>	45	Agricultural sector loan primarily to fund development of rural roads and supply/marketing centers.	15	Sector loan for strengthening and increasing the efficiency of primary and secondary education through incorporating extensive research in the application of new educational technology.
			10	Loan to support proposed graduate education and research Centers of Excellence.
<u>Chile</u>	10	Sector loan to finance agricultural credit to small farmers and training of agricultural technicians and extension workers.	10	Sector loan to provide financing for primary and secondary school construction, teacher training centers, textbooks and other edl. equipment.
<u>Colombia</u>	15	Sector loan to encourage further improvement in agricultural planning and policy formulation by Ministry, continued production credit for small farmers, more land reform and expanded agricultural exports other than coffee. \$1.4 will be for T.A.	15	Sector loan to strengthen Colombian capabilities for education policy making and management as well as to provide financial resources for investment. Loan plus related TA will support policies leading towards eventual universal primary education, rationalization of higher education planning, finance, and textbook systems, and improved adult education.
<u>Costa Rica</u>	10	Sector loan to help modernize small farmer operations.	--	
<u>D. R.</u>	12	Sector loan to finance agricultural machinery, fertilizer and insecticide, increase credit to farmers, lower the cost of agricultural inputs, and introduce more advanced technology.	--	

Source: FY 71 CP Book

Proposed FY 71 LOANS

<u>Ecuador</u>	6.5	For advisory assistance and credit, supported by T.A., aimed at increasing productivity of selected crops.	--
<u>El Salvador</u>	7.5	Sector loan for financing, reorganization and augmentation of agricultural research, education and extension programs, and the broadening of a program of supervised agricultural credit. A major purpose is to stimulate agricultural diversification.	--
<u>Guatemala</u>	--		8.6 For establishment of 50 sixth grade schools in rural areas, enlarging 3 grade schools to fourth and sixth grades, and turning 4 existing 6th grade schools into experimental centers.
<u>Guayana</u>	2.0	Loan for agricultural credit.	--
	2.5	Loan for crop diversification.	
<u>Honduras</u>	9.0	Loan to stimulate export of forest products.	--
<u>Nicaragua</u>	4.5	Loan for farm-to-market roads.	5.0 Sector loan to be carried out in close cooperation with World Bank and IDB to insure a comprehensive approach to Nicaragua's educational requirements.
<u>Panama</u>	10	Sector loan for support of crop diversification and improved marketing infrastructure.	1.5 Loan to finance assistance to the Institute for the Development of Human Resources and the Ministry of Labor. Will expand an existing training program for unemployed residents of urban slums and strengthen the National Employment Service.
<u>Paraguay</u>	1.5	Loan for import fertilizers.	3.5 Loan to provide T.A. for improving the quality of rural education and developing the skills needed for an agriculture-based economy.
<u>Regional</u>	5.0	For coffee diversification into more profitable and higher priority crops.	--

 140.5

 68.6

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

<u>C O U N T R Y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S./ Counterpart</u>	<u>Funding</u>	<u>Amounts</u>
<u>ARGENTINA</u>	Agric Econ Services	Texas A&M/ #LA-157	Grant	Terminates 6/30/70
	Land Grant College	Michigan State/Balcarce Ag College #LA-245	Grant	Terminates 12/31/70
	Foot & Mouth Disease Control	National Academy of Sciences #LA-4 PASA/USDA	Grant	Terminates 6/30/71

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

<u>C O U N T R Y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S./Contractor</u>	<u>Funding</u>	<u>Amounts</u>
<u>ARGENTINA</u>	Meat Technology and Aptosa Lab	INTA/	Loan	
	Grain Storage Loan	Nac.Bk /Private Contractor	Loan	

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

C O U N T R Y

Title of Project

Implementing Agent
U.S./Foreign

Funding

Amounts

BOLIVIA

Ag Statistics

PASA/U.S. Bureau of Census

Grant

Land Reform

Direct Hire/A.I.D.

Grant

Seed Variety Development

Utah State Univ. #IA-319

Grant

Sheep Wool & Meat Mktg.

Utah State Univ. #IA-319

Grant

Ag Sector Study

IDS/

Grant

*not checked
of desk*

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

C O U N T R Y

Title of Project

Implementing Agent
U.S./Cooperating

Funding

Amounts

BOLIVIA

Access Roads to Colonization
Area #3 and #7 (Inc.)

GOB/

Loan

Agriculture Bank

Ag Bnk/

Loan

Technical Assistance & Equipment
Procurement

GOB/

Loan

AGRICULTURAL PROJECTS- LATIN AMERICA BUREAUC O U N T R YTitle of ProjectImplementing Agent
US/CounterpartFundingAmountsBRAZILAGRICULTURAL EDUCATIONWisconsin Univ #IA-147/
Univ Rio Grande do Sul

Grants

Univ of Arizona #IA-145/
Univ of CearaPurdue Univ #N-639/
Rural Univ of Minas Gerais*Also Purdue La/449 Development of High Quality Protein in Corn*Ohio State Univ #IA-161/
Superior School AGAG Marketing
(Ag Credit System-)
Dev'l Ag Coops)

PASA/USDA

Grant

Agricultural Production
High Protein Corn
Fish Production (NE)
Seed DevelopmentPurdue Univ #IA-449
Auburn Univ csd-2270
Mississippi State #IA-165

Grant

Agrarian Reform
Rural Rehabilitation
& Reform

Grant

AGRICULTURAL PROJECTS- LATIN AMERICA BUREAUC O U N T R YTitle of ProjectImplementing Agent
US/CounterpartFundingAmountsBRAZIL

Agricultural Research

IRI/GOB #IA-151

Loan

Second Food Production

AID/Central Bank-Fundo Geral
de Agric e Industria

Loan

ULTRAFERTIL Fertilizer
(Fertilizer Plant & Distr.)
Fertilizer ImportsA.I.D./Phillips Petroleum
Foster Wheeler Corp, N.J.
Dorr-Oliver Engr, Conn.
D.M.Weatherly Co, Ga.

Loan

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

<u>C O U N T R Y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S./Counterpart</u>	<u>Funding</u>	<u>Amounts</u>
<u>COLOMBIA</u>	Ag Education	Utah State Univ / A.I.D. #IA-514-105	Grant	
	Nat Agr Planning	PASA/USDA Michigan State Univ #csd-267	Grant	

AGRICULTURAL PROJECTS

LATIN AMERICA BUREAU

<u>C O U N T R Y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S./Counterpart</u>	<u>Funding</u>	<u>Amounts</u>
<u>COLOMBIA</u>	Superv. Agr	INCORA/Inst. Agr/A.I.D.	Loan	Completed
	Agricultural Sector	GOC/Univ of Nebraska (\$15 m ag sector loan of which \$1.1 m for T.A. FY 68 & FY 69) T.A. \$1 m + 300,00 FY 70 Rest of loan like Program Loan)	Loan	
	Livestock Bank (Slaughterhouse)	Banco Ganadero/A.I.D.	Loan	
	Rural Elec Coops	I. Aguas y Fomento	Loan	

AGRICULTURAL PROJECTSLATIN AMERICA BUREAU

<u>C O U N T R Y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>US/Counterpart</u>	<u>Funding</u>	<u>Amount</u>
<u>CHILE</u>	King Crab Exploratory	LeRoy Christey #LA-628	Grant	
	Technical Support (Viniculture Parasite Study)	University of California	Grant	
	Cost of Production Study	Catholic Univ of Santiago/ A.I.D.	Grant	
	Land Titling Study	Catholic Univ of Valparaiso/ A.I.D.	Grant	
	Feed Lot Research Project	Univ of Chile (Santiago)/ A.I.D.	Grant	

AGRICULTURAL PROJECTSLATIN AMERICA BUREAUC O U N T R YTitle of ProjectImplementing Agent
U.S./CounterpartFundingAmountsCHILE

Rural Elec Cooperatives

CORFO/AID

Loan

Agricultural Sector

GOC/

Loan

Cooperative Dev Bank

IFC

Loan

Fertilizer Imports

ECA

Loan

About to be
terminated

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

C O U N T R Y

Title of Project

Implementing Agent
U.S./Counterpart

Funding

Amounts

COSTA RICA

Ag Diversification

Univ. of Florida
#LA-261/OFIPLAN

Grant

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

<u>C O U N T R Y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S./Contract</u>	<u>Funding</u>	<u>Amounts</u>
<u>COSTA RICA</u>	Ag Credit (1-2-3)	Nac'l Bank / A.I.D.	Loans	
	Cadastral Survey (Land Titling)	GOCR/ A.I.D. (ITCO)	Loans	

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

C O U N T R Y

Title of Project

Implementing Agent
U.S./Country

Funding

Amounts

DOMINICAN REPUBLIC

Ag Development Support

Texas A & M #IA-268

Grant

PASA/USDA

PASA/IAGS

AGRICULTURAL PROJECTS - LATE AMERICA BUREAU

<u>C O U N T R Y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S. / Government</u>	<u>Funding</u>	<u>Amounts</u>
<u>DOMINICAN REPUBLIC</u>	Ag Credit	Ag Bank/	Loan	
	Cooperative Dev Bank	GODR/	Loan	

AGRICULTURAL PROJECTSLATIN AMERICA BUREAUC O U N T R YTitle of ProjectImplementing Agent
U.S./CounterpartFundingAmountsEQUADOR

Agriculture Production

GOE/Direct Hire

Grant

AGRICULTURAL PROJECTSLATIN AMERICA BUREAUC O U N T R YTitle of ProjectImplementing Agent
U.S./CounterpartFundingAmountEQUADORRural Electric Coops #1
" " " #2INECEL/A. I. D.
"Loans
"

Land Sale Guarantee

Central Bank /
A. I. D.

Loan

Cooperative Bank
(for Promoting Ag
Production/Equipment)Cooperative Bnk/
A. I. D.

Loan

AGRICULTURAL PROJECTSLATIN AMERICA BUREAU

<u>C O U N T R Y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S./Counterpart</u>	<u>Funding</u>	<u>Amount</u>
<u>EL SALVADOR</u>	<u>Agricultural Development</u>	Direct Hire (1)	Grant	
	Nat School of Agric	PASA/USDA/A.I.D.		
	Ag Dev and Ag Reform	(4) Univ of Florida	PLA-586	
	(Ag Sector Analysis)	(Robert Nathan Associates)	(Grant)	

AGRICULTURAL PROJECTSLATIN AMERICA BUREAUC O U N T R YTitle of ProjectImplementing Agent
U.S./CounterpartFundingAmountsEL SALVADOR

Agriculture & Livestock

Central Bank (ABC)/
A.I.D.

Loan

Cadastral

GOEL/A.I.D.

IRR

Credit (Agriculture)

"

IRR

Center for Ag Technology

"

IRR

Feeder Roads

"

IRR

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

C O U N T R Y

Title of Project

Implementing Agent
U.S. / Contact

Funding

Amounts

GUATEMALA

Ag Education

Direct Hire/A.I.D
Calif Polytech 520-190T

Grant

Ag Modernization and
Diversification

Mississippi State #IA-408

Grants

Ag Marketing

Kansas State Univ.

Grant

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

C O U N T R Y

Title of Project

Implementing Agent
U.S./Country

Funding

Amounts

GUATEMALA

Rural Development Program

GOG/A.I.D.

Loan

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

C O U N T R Y

Title of Project

Implementing Agent

Funding

Amounts

GUYANA

Development & Diversification
of Agriculture

University of Florida

Grants

Tuskegee Institute
Tuskegee, Ala.

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

<u>C O U N T R Y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S./Country</u>	<u>Funding</u>	<u>Amounts</u>
<u>GUYANA</u>	Rice Modernization	GOG/PAN CON # IA-568	Loan	

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

<u>C O U N T R Y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S. / Contract</u>	<u>Funding</u>	<u>Amounts</u>
<u>HAITI</u>	Irrigation	GOH	Loan	
	Sisal Plantation	Agr Corp	Loan	

AGRICULTURAL PROJECTS- LATIN AMERICA BUREAUC O U N T R YTitle of ProjectImplementing Agent
U.S./CounterpartFundingAmountsHONDURASAgric Productivity

GOH/A.I.D.

Grant

Ag Dev (Credit & Ext)

Forest Management

Direct Hire (Max Becher)

Grant

Cooperative DevelopmentAg Coop Dev Int'l
(ACDI)/A.I.D.

Grant

Ag Coops

Credit Union Coops

CUNA/A.I.D.

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

<u>C O U N T R Y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S./Counterpart</u>	<u>Funding</u>	<u>Amounts</u>
<u>HONDURAS</u>	Farm to Market Roads	GOE/A.I.D.	Loan	
	Ag Credit and Storage	GOE/A.I.D.	Loan	

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

<u>C O U N T R Y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S./Cooperating</u>	<u>Funding</u>	<u>Amounts</u>
<u>JAMAICA</u>	Ag Production & Marketing	University of Florida Contract #LA-410	Grant	
		Credit Advisor (Private Contract)	Grant	

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

C O U N T R Y

Title of Project

Implementing Agent
U.S. / Government

Funding

Amounts

JAMAICA

Dairy Development

GOJ/

Loan

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

<u>C O U N T R Y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S./Country</u>	<u>Funding</u>	<u>Amounts</u>
<u>MEXICO</u>	Superv Ag	N. Fin/	Loan	
	Superv Ag (inc)	N. Fin	Loan	
	Chapingo Nat Ag Center	N Fin	Loan	

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

C O U N T R Y

Title of Project

Implementing Agent
U.S./Counterpart

Funding

Amounts

NICARAGUA

Ag Inst Dev

PASA/USAID

Grant

Ag Production & Diversification

Louisiana State Univ/GON

Grant

Irrigation Development

Uniconsult (Private
Contract)

Grant

AGRICULTURAL PROJECTS- LATIN AMERICA BUREAU

<u>C o u n t r y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S./Counterpart</u>	<u>Funding</u>	<u>Amounts</u>
<u>NICARAGUA</u>	Rural Electric Coop 524-L-021	GON	Loan	
	Basic Crop Production 524-L-022	GON	Loan	

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

<u>C o u n t r y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S./Counterpart</u>	<u>Funding</u>	<u>Amounts</u>
<u>PANAMA</u>	<u>Agricultural Development</u>			
	1. Ag Development		Grants	
	2. Coop Development	CIUSA/Priv Contract (GOP Min of Ag)	Grant	
	3. Credit Union Fed	CIUSA	Grant	

AGRICULTURAL PROJECTS- LATIN AMERICA BUREAU

<u>C o u n t r y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S./Counterpart</u>	<u>Funding</u>	<u>Amounts</u>
<u>PANAMA</u>	Cadastral Survey	GOP/A.I.D.	Loans	To be comple by 8/30/70
	" " (Inc)			
	Ag Reform Resettlement	Comision Ag (GOP// Min of Ag/AID)	Loan	To be comple by 6/30/70
	Small Farmer Improvement	A.I.D./PASA/USDA	Loan	

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

<u>C O U N T R Y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S./Counterpart</u>	<u>Funding</u>	<u>Amounts</u>
<u>PARAGUAY</u>	<u>Agricultural Production and</u> <u>Institutional Development</u>			
	Livestock Development	New Mexico State Univ #IA-199	Grant	
	Barrerito Demonstration Ranch	University of Arizona #LA-471	Grant	
	Institutional Development	Clapp & Moyne, Inc. San Juan, P.R.	Grant	
	Ag Prod Credit	GOP	Grant	

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

<u>COUNTRY</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S./Counterpart</u>	<u>Funding</u>	<u>Amounts</u>
<u>PARAGUAY</u>	Agricultural Credit	PASA/USDA Dev Bnk New Mexico State #LA-520	Loan	
	Priv Dev Bank - Agr	COMDESA/	Loan	

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

*not
checked
w/ Dick*

<u>C O U N T R Y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S. / Country</u>	<u>Funding</u>	<u>Amounts</u>
<u>PERU</u>	Ag Planning & Research	Iowa State Univ #LA-49 #LA-592	Grant	
	Ag Inst Dev & Oper	North Carolina #LA-510	Grant	

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

<u>C O U N T R Y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S. / Commodity</u>	<u>Funding</u>	<u>Amounts</u>
<u>PERU</u>	Ag Dev	GOP/	Loan	
	Agrarian University	La Molina/	Loan	
	Sup Ag Credit Fund	GOP/North Carolina State Univ #IA-463	Loan	
	Food Marketing	GOP/	Loan	
	Cooperacion Popular Revolving Fund	GOP/	Loan	

AGRICULTURAL PROJECTSLATIN AMERICA BUREAU

<u>C O U N T R Y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S./Counterpart</u>	<u>Funding</u>	<u>Amounts</u>
<u>REGIONAL</u>	IICA/Turrialba	OAS/A.I.D.	Grant	
	National Markets	Michigan State Univ #	Grant	
	Soil Fertility	North Carolina State #LA-644	Grant	
	Cooperative Development (IA/PCD will maintain Project management of all coop projects)	CUNA/CLUSA	Grant	
	OCA/Project (to start 6/30/70)	A.I.D./Organization of Cooperatives of America in Puerto Rico)	Grant	

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

C O U N T R Y

Title of Project

Implementing Agent
U.S./Embassy

Funding

Amounts

ROCAP

Rural Dev Inst of Higher
Education

Contract IA-282

Grant

Agricultural Planning

PAHO

Grant

Ag Policy & Dev

Mississippi State #LA-~~488~~⁻⁴⁸⁸

Grant

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

C O U N T R Y

Title of Project

Implementing Agent
U.S./Contract

Funding

Amounts

URUGUAY

Ag Inst Dev -
Production & Mtg

IDS #LA-584

Grant

AGRICULTURAL PROJECTSLATIN AMERICA BUREAU

<u>C O U N T R Y</u>	<u>Title of Project</u>	<u>Implementing Agent</u> <u>U.S./Counterpart</u>	<u>Funding</u>	<u>Amounts</u>
<u>URUGUAY</u>	Fertilizer & Related Ag Imports	Bank of the Republic	Loan	
	Ag Sector	GOU/IDS	Loan	
	Agriculture Cooperatives	csd-267	Loan (INACTIVE)	

AGRICULTURAL PROJECTS - LATIN AMERICA BUREAU

C O U N T R Y

Title of Project

Implementing Agent
U.S. / ~~Country~~

Funding

Amounts

VENEZUELA

Superv Agr

Bnk Agr

Loan