



**AGENCY FOR
INTERNATIONAL
DEVELOPMENT**

ANNUAL BUDGET SUBMISSION

FY 1982

**DEVELOPMENT SUPPORT BUREAU
OFFICE OF SCIENCE AND TECHNOLOGY**

MAY 1980

UNITED STATES INTERNATIONAL DEVELOPMENT COOPERATION AGENCY
WASHINGTON, D.C. 20523

TABLE OF CONTENTS

Office Strategy Statement.....	1
ZBB Narrative.....	9
Table V - Proposed FY 1982 Program Ranking	
Consolidated DS/ST.....	14
DS/ST, Science Policy.....	15
DS/ST, Environment and Natural Resources.....	16
DS/ST, Employment and Technology.....	17
Table III - Project Obligations - FY 1980 to FY 1982.....	17a
Project Data Sheets.....	18
Office Staff Listing.....	32
Long Range Funding and Staff Projections.....	34
Contract/Grant Field Support.....	35
Table IV - Project Budget Data.....	36
Country Activity Data.....	37

OFFICE STRATEGY STATEMENT

A. FY 1981 and FY 1982 CPSS for the Office of Science and Technology

As stated in the Office's FY 1981 CPSS Statement, the mission of the Office of Science and Technology is to encourage and support the Agency's developing country clientele in the use of scientific and technological knowledge that impacts on their development with a special emphasis on satisfying basic human needs. To perform this role, the Strategy Statement included two important elements: the transfer of technology through training, technical assistance and applied research; and the identification of program areas which describe the substantive content of the science and technology selected for transfer.

With respect to the technology transfer process, the Office engaged in activities that increased its mastery of the subject matter through state-of-the-art studies and demonstration projects and applied that know-how through training and technical assistance to the field Missions. With respect to the major demand areas, the following eight were highlighted: Remote Sensing; Science Policy and Planning; Employment Creation through the Development of Small Industry Technology and Management Capabilities; Environment and Natural Resources; Appropriate Technology; Scientific Institutions for Development; UNCSTD Follow-Up; and Development of Technology for Low-Cost Construction. Their validity was tested among the Regional Bureaus last year and received their endorsement.

The most significant change in the Strategy Statement in this FY 1982 ABS as compared to last year's Strategy Statement is in the regrouping and reduction of the multiple program areas from eight to three. The revision was prompted by a desire to convey a better understanding of the core programs of the Office.

The three program areas of emphasis are: Science Policy; Environment, Natural Resources and Remote Sensing; and Employment and Technology. The transition is portrayed in the Program Areas Chart on page 2.

PROGRAM AREAS

FY 1981

1. Remote Sensing
Emphasis primarily on environment and natural resources.
2. Science Policy and Planning
Replaced by Program Area 1 in FY 82.
3. Environment and Natural Resources
High priority core of DS/ST's activities.
4. Employment Creation through the Development of Small Industry Technology and Management Capabilities
Subsumed under Program Area 3 in FY 82.
5. Appropriate Technology
Subsumed under Program Area 3 in FY 82.
6. Scientific Institutions for Development
Subsumed under Program Area 1 in FY 82.
7. UNCSTD Follow-Up
Dropped as a distinct Program Area but responded to through the three Program Areas in FY 82.
8. Development of Technologies for Low-Cost Construction
Dropped as a Program Area due to low priority demands.

FY 1982

1. Science Policy
Incorporates and integrates Program Areas 2 and 6 in FY 81.
2. Environment, Natural Resources and Remote Sensing
Incorporates and integrates Program Areas 1 and 3 of FY 81 and broadens their application especially with respect to forestry.
3. Employment and Technology
Incorporates and integrates Program Areas 4 and 5 of FY 81.

1. Science Policy

It is perhaps a truism to state that a minimal scientific and technological infrastructure is essential to any developing nation whose national policy is to move from dependency status and achieve the scientific and technological capability to sustain economic growth. However, to achieve that basic capacity requires an understanding on the part of the LDC of the role of government policy in creating a receptive climate for such developments. The strategy to help our country clientele comprehend and appreciate the shortcomings in their science and technological strength will be implemented through S&T studies and assessments. These activities will help them enunciate policy choices that in the longer term will build greater self-sufficiency in this area.

2. Environment, Natural Resources and Remote Sensing

It has been recognized from a number of recent studies-- Global Year 2000 (State and CEQ); Research Priorities in Tropical Biology (National Research Council); Environment and Natural Resource Management in Developing Countries (AID); World Conservation Strategy (International Union for the Conservation of Nature)--that the ever encroaching environmental and natural resource degradation in the LDC world is having immediate and long range negative impact on the countries' ability to satisfy the basic human needs of their populations. The most significant problems are caused by: deforestation and its impact on energy, food and water; soil erosion; desertification; and coastal zone deterioration.

The strategy of the Office in this area is to provide information and understanding about these problems and to mobilize U.S. and other expertise to assist the Regional Bureaus, Missions and the LDCs in solving them. The ultimate beneficiary is the poor whose daily existence will be improved through the better management of natural resources. This strategy translates itself into such activities as:

- development of preliminary information on critical natural resources and environmental problems on an individual country basis.
- expansion of information resources on such specific problem areas as resource degradation in the humid tropics and development of methodologies for collecting baseline data through natural resources inventories.

- initiation of cooperative US/LDC applied research and training programs to assist in the transfer of scientific and technical knowledge through such avenues as, for example, the Man and the Biosphere (MAE) program.
- providing U.S. and other expertise in environmental planning and management to the Missions and LDCs in order to institutionalize and strengthen LDC functions in this area.

3. Employment and Technology

Generating productive employment and raising the income of the employed poor are a major concern of the LDCs and AID. These problems are complicated by a scarcity of capital in the LDCs. Large scale creation of productive jobs with low capital-labor ratios is necessary. Traditionally, farming has been the prime source of productive employment in AID clientele countries and is the primary focus of AID's efforts.

However, experience has shown that the demand for non-farm goods and services grows rapidly as incomes are generated in the agricultural sector. Consequently, opportunities for manufacturing and service industries offer major sources of new employment for developing countries. Small manufacturing and service enterprises offer the most attractive prospects for capital saving employment generation. Thus the strategy of this Office is to initiate a small non-farm enterprise program that will complement the Agency's small farm agricultural program with the objective of employment generation.

B. Influential Events

A number of significant occurrences described below took place over the past year. Their impact on the Office varied but their overall influence helped to shape DS/ST's FY 1982 portfolio and program direction.

1. Environment and Natural Resources

In the field of environment and natural resources, an intensity of interest coming from the Congress, the non-Governmental Organization (NGO) Community, specialized agencies of the United Nations, and the U.S. Government itself culminated in a call to action to impede the environmental degradation

taking place in the LDCs. Some of the most influential manifestations of that interest include: the 1979 AID Report to the Congress on Environmental and Natural Resource Management in Developing Countries; the inauguration of a World Conservation Strategy sponsored by the United Nations Environment Program (UNEP); and the U.S. Interagency Task Force Report on Tropical Forests entitled "The World's Tropical Forests; A U.S. Policy, Strategy and Program" scheduled for transmittal to the President in May, 1980.

A further development was the creation of the Agency's Forest Resources Group in January 1980 which is chaired by the Office. The purpose of the Group is to provide a leadership role in the stimulation of forestry program initiatives in AID and also bring to bear its technical expertise in project choice and design.

2. UNCSTD Follow-Up

The United Nations Conference on Science and Technology for Development (UNCSTD) was held in Vienna in August 1979. The Conference adopted a Program of Action consisting of several recommendations divided into three sections: strengthening the scientific and technological capacities of developing countries; restructuring the existing pattern of international scientific and technological relations; strengthening the role of the United Nations system in the field of science and technology, including the provision of increased financial resources.

The Conference failed, however, to reach agreement on several parts of the Vienna Program of Action, notably those dealing with such issues as the role of transnational corporations; access to all types of technological know-how; restrictive business practices; the redeployment of resources from the arms race and armaments research; and the establishment of a compulsory International Science and Technology Development Financing System. The Conference requested the General Assembly of the United Nations to take the necessary steps at its ensuing sessions to provide for further discussion and negotiations on the questions outstanding.

In spite of the fact that the United Nations after UNCSTD is in a transitional mode in adapting itself to the recent prominence given to science and technology in development, there are clear directional signals from the LDC membership. Some are derived from the National Papers that each nation prepared for the Conference and others from the Conference

itself. They include the less-developed world's desire to better understand the shortcomings in its S&T capacity and then to have access to the resources to remedy the situation. Among the initiatives to respond to these needs is an assessment of those capacities in order to facilitate their transition to a point where they can make their own technological choices.

3. Capital Saving Technology and Employment Generation

In March 1980, the Administrator transmitted to the Congress the Agency's Report on Capital Saving Technology in response to the House Appropriations Committee Report on the FY 1980 foreign assistance appropriations bill. The House Report asked AID "to develop a comprehensive strategy aimed at accomplishing a quantum leap in the delivery of capital saving technology to the world's poor within five years and report to the Committee on progress made during its fiscal year 1981 budget presentation and in each year thereafter." The Committee also asked AID to help less-developed countries provide both more employment and more productive employment for poor people within a relatively short period of time as a key feature of the Agency's approach to equitable development. The delivery of capital saving technology is to be emphasized as an important means of achieving these objectives.

Concurrent with the preparation of the Capital Saving Technology Report, the Development Support Bureau (DSB) formed an Employment Generation Panel to study the question on how DSB could within its own Bureau address more fully and effectively the need for productive employment opportunities in the LDCs. The mandate was broader than employment in the context of capital saving technology. The Panel Report called for action in this vital area.

The Administrator also expressed an interest in the broader question of employment generation initiatives in AID during the Assistant Administrator level review of the Capital Saving Technology Report. He asked DSB to determine how it would organize itself to assist the Agency in dealing with the concerns of off-farm employment generation. DSB has created a Special Task Force Unit on Employment Generation which is in the process of implementing its mandate.

4. FY 1982 CDSS Reviews

The Agency has completed its review schedule for the FY 1982 CDSSs, and has been in the process of communicating overview conclusions on sectoral emphases that the documents revealed.

The information that Office analyses have provided thus far indicates that the Missions put a high priority on the environmental and natural resource aspects of land use management and small scale enterprises for employment generation. A more complete and studied effort is in order to determine the emphasis in other areas relevant to the Office's activities.

5. Transition to an Operational Satellite Program
(Landsat D and Follow-On)

Under the present experimental Landsat program (Landsat-3), the Office helps participating LDCs procure satellite imagery of their respective countries from the EROS Space Center in Sioux Falls, South Dakota. It also funds the training of LDC personnel and technical assistance to institutionalize a remote sensing capacity for development purposes. On November 16, 1979, Presidential Directive NSC 54 was issued approving a civil space policy that will convert the Landsat experimental program to an operational one and assigned the management responsibility for the civil, operational land remote sensing system to the National Oceanic and Atmospheric Administration (NOAA) of the Department of Commerce.

The President's expectations that user agencies of the Landsat system pay their fair share of the costs should have no foreseeable impact on AID. However, there is one area of concern that has to be addressed and that is the need for assurance that imagery data will be available to the LDCs during the transition from the experimental to the operational mode. Evidently, no one can give that assurance since it depends on the time gap between the failure of the tape recorders on Landsat-3 (now in orbit) and the launch of Landsat-D.

The positive side of the move to an operational system is the fact that AID can make longer range plans in the form of projects and other activities that use remote sensing satellite imagery in the service of the LDCs.

6. Discussion Seminar on Science and Technology

On March 12, 1980, the Office of Science and Technology sponsored a discussion seminar with the cooperation and participation of the Board for Science and Technology in Development (BOSTID) of the National Academy of Sciences. The overall purposes were: to foster an Agency-wide dialogue on science and technology; to get a reaction to the present and planned portfolio of the Office; and to identify new S&T

initiatives relevant to the AID mandate. Eleven representatives of the scientific community joined staff members of the BOSTID of the Academy and participants of AID's Regional Bureaus, PPC and DSB in the seminar.

The major conclusions of the meeting were as follows: the papers prepared for review and comment which reflected the ongoing and planned portfolio of the Office had the proper balance and choice and were responsive to the priority needs of the LDCs; the lack of S&T competence in the Missions should be compensated by similar discussion seminars held in the field on a regional basis; S&T assessments is a topic of considerable interest to the Regional Bureaus and, if conducted under proper circumstances (e.g., a follow-on host government commitment), would have the effect of raising S&T awareness among country decision-makers and organize a consensus among the S&T constituents within the country; assistance in technology choice is needed; more emphasis should be put on S&T for industry at the urban and rural levels, more stress should be put on collaborative efforts with LDC scientific and technological institutions and personnel; all new projects should be designed to address employment generation; forestry projects are doomed to failure if we do not quickly expand the LDC and AID's knowledge base; inventories of trees, fish, plants and animals are needed where they can be used for human benefits; MAB-type programs which are productive and do research on sustainable forestry systems are needed and the information resulting from the research should be quickly disseminated; a new thrust is needed on training in S&T which AID Missions do not normally consider; new initiatives in agroforestry should be supported; in view of the U.S. depending on LDCs for 50-100% of many of the minerals now imported, the Agency should study the implications of this external reliance for U.S. foreign assistance and foreign policy implications; and modest seed money should be used by DS/ST to support the development of innovative ideas and unsolicited proposals of great promise.

OFFICE NARRATIVE

The FY 1982 budget levels for the Office of Science and Technology for the Minimum, Current and Proposed levels are \$7,530 million, \$10,270 million and \$16,600 million, respectively. Within these totals for the Office, each of its three organizational elements which coincide with the three FY 82 Program Areas described earlier were allocated the following Minimum, Current and Proposed levels (\$000):

	<u>Minimum</u>	<u>Current</u>	<u>Proposed</u>
1. Science Policy	\$ 1,000	\$ 1,300	\$ 1,600
2. Environment, Natural Resources and Remote Sensing	2,530	2,970	5,000
3. Employment and Technology	<u>4,000</u>	<u>6,000</u>	<u>10,000</u>
TOTAL	\$ 7,530	\$10,270	\$ 16,600

The Narrative discussion will be at the Office level although Table V's are included for each Division presentation.

A. Minimum Decision Package

At the Minimum level, the Office proposes funding a total of seven (7) projects. The Deforestation Survey project is the only new start at this level in order to continue the DSB momentum with respect to the problems of deforestation.

The Deforestation Survey project broadly reflects the intensity of interest of the LDCs, the Missions, the Regional Bureaus, the Congress and environmental interest groups in taking steps to arrest the extremely serious state-of-affairs caused by the accelerating loss of forest and vegetative cover in the humid and semi-arid lands within or near the tropical latitudes. In addition, its inclusion in the FY 1982 program was stimulated by an opportunity to apply remote sensing technology to accelerate the acquisition of a macro-knowledge base that will sophisticate problem solving in this area. Coincidentally, the need to deal with the problems of land-use management, including deforestation, was identified as an area of priority concern in the FY 1982 CDSSs.

Four of the continuing projects - Forest Resources Management; Environment and Natural Resources Expanded Information Base; Environmental Planning and Management; and Environmental Training and Grants (MAB) represent the Office's ongoing core initiatives in environment and natural resources. The Enhancing S&T Capabilities project continues and expands the Agency's linkage with the National Academy of Sciences by including an effort in the development of methodologies for S&T assessments. The last project in this group--A.T. International--represents funding for the first year's budget for the second operational grant.

This minimum portfolio is responsive to the problem areas identified by the Regional Bureaus; reflects an implicit or explicit legislative mandate (for example, forestry and Section 103 (b) (3) of the FAA, as amended); and is compatible with the integrated Program Area revisions.

B. Current Decision Package

The Current portfolio adds three more new projects to the FY 1982 program: Water Resources Mapping; Coastal Resources Management; and Technology Choice.

The Water Resources Mapping project affords the Agency another opportunity to apply remote sensing technology to help the LDCs improve their capacity to anticipate the availability of water supplies and relate that knowledge to agricultural production and land-use management. Most developing countries are unable to predict with any reliability the amount of water they can expect during the growing season. Although most LDCs have hydrologic departments which can collect and analyze data, many lack the equipment and adequately trained personnel to predict surface water availability or potential ground water sources. This project will train LDC resource managers in the techniques of integrating satellite and ground-based geophysical data to locate and identify surface and subsurface water resources. In addition, selected LDCs will be equipped with data collection platforms, river and rain gauges, and minicomputers to process imagery and analyze relevant data.

The Coastal Resources Management project was included in DS/ST's FY 1981 ABS but was excluded in the FY 1981 Congressional Presentation. During the FY 1981 ABS Review, the issue of Regional Bureau interest and demand was raised, and DS/ST was instructed to determine the Missions' wishes in order to justify such an initiative. A cable dated June 14, 1979 was sent to

all Missions for their reaction to the project. Thirty-one Missions replied and their responses were classified by: strong interest; possible interest; negative interest. Fifteen Missions voiced a strong interest; six Missions a possible interest; and ten were negative. Of the ten negatives, four Missions wanted the information that would be learned from such an effort; the remainder had other priorities.

The Technology Choice project, although new in the DS/ST portfolio, has generated strong interest elsewhere and has made an impact on AID. Governments in all countries struggle with the problem of how to ensure that science and technology contribute effectively to solving national problems. In developing countries the problem is particularly pressing because local scientific and technological skills are usually limited. In the 1960s and early 1970s, policy research, mainly carried out in Latin America and India, demonstrated that the lack of local skills combined with heavy dependence on foreign technology had sometimes led to undesirable patterns of industrialization. The findings spotlighted two basic questions: What can developing country governments do to assure that their policies lead private and public enterprises to make technology choices that are consistent with national development objectives? And what ways and means are available for implementing those choices?

This is a significant area of concern for AID. AID programs have significant impact on technology choice and Agency personnel should be playing a more deliberate role in cooperation with their counterparts in exercising greater influence on the key decisions that affect technology.

An apparent consensus exists among the Regional Bureaus that a better understanding of the technology choice process would be helpful to improve the relevant decisions that are continually being made within the AID program. Agreement on this initiative was voiced in the Capital Saving Technology Report sent to the Congress in March 1980 and most recently in the Discussion Seminar on Science and Technology held on March 12, 1980, under DS/ST sponsorship with BOSTID of the National Academy of Sciences.

As new initiatives, two of the three new projects in the Current level (Water Resources Mapping and Coastal Resources Management) reflect the recognition by the Regional Bureaus of the high priority they place on responding to the problems of natural resource management. The deliberations of the Agency's Committee on Environment in Development and the Forest Resources Group as well as the Regional Bureau portfolios reflect this conclusion.

The third project, Technological Choice will help to answer a number of issues that the Agency needs to resolve to satisfy development needs. For example, what is the cost-benefit relationships of alternative product and technology programs in selected industries; and how such factors as perception of "modernity" and evolution of technology enter into decision-making by the LDCs on choice of technology?

The efforts of A.T. International are already influencing technological choice in its client countries toward a labor intensive mode as distinguished from a capital intensive one. The thrust is in the right direction although it is much too early to expect a measurable impact on governmental policy.

C. Proposed Decision Package

There are three new projects in the Proposed budget level bringing the total number of new projects for FY 1982 to seven. They are: Natural Resources Management Training; Catchment Protection and Watershed Management; and Land Capability Analysis Methods.

The motivation behind the Natural Resources Management Training project is to fill a course materials and training gap being created by the increased number of personnel in the LDCs who are needed to participate in environment and natural resources programs in their respective countries. A concerted level of effort is required to produce this competence but this will not be possible without first designing and testing technical courses for their training. The relative newness of the subject matter, even within the U.S., means that extensive course development and adaptation is a must to assure that the subject fits developing country needs.

The Catchment Protection and Watershed Management project is being initiated to help reverse the adverse effects on agricultural productivity, increased damage from flooding, erosion and sedimentation due to poor catchment protection and watershed management. Increasing numbers of rural populations in the LDCs are moving onto more fragile marginal lands where poor soils, greater slopes and adverse climatic conditions make land management more difficult and cause rapid hydrolic system disturbances.

The project will examine the basis for successes or failures in assistance project experience and will analyze past history of watershed deterioration in the face of changing social conditions and growing population pressure. Demonstration sites for

recommended approaches and promising mechanisms for advisory support and training services to AID Missions and LDCs will be provided.

Finally, the Land Capability Analysis Methods project will, in its broadest terms, support improved LDC forest land-use decisions through the development and more widespread application of land suitability analysis methods. It will begin by examining recent experience in the LDCs in the application of land capability analysis methods and then bring to bear technical assistance and training to upgrade that capability among Mission staffs and developing country personnel charged with these functions.

The remaining seven projects in the Proposed Decision Package appear at this level for increased allocations.

TABLE A - FY 1982 PROPOSED PROGRAM BANKING
06/02/80

DECISION PACKAGE: S/PROGRAM ACTIVITY

TERM: _____ PROGRAM FUNDING: _____
 NEW/ LOAN/ APPROP (5000) _____
 CONT GRANT ACCT. INCR CUR INCR CUR INCR CUR

DECISION PACKAGE - MINIMA

1 931194	15/STAFF REDUPED TO OPERATE OFFICE	C	U	FN	1000	1000	14	14	26263
2 930519	FOREST RESOURCES MANAGEMENT	C	G	SD	450	1450	14	14	26246
3 931109	ENVIRONMENTAL PLANING & MANAGEMENT	C	G	SD	400	1930	14	14	26247
4 931117	ENVIRONMENTAL TRAINING AND GRANTS - II	C	G	SD	300	2230	14	14	26248
5 931111	DEFORSTATION SURVEY	N	G	FN	300	2530	14	14	26281
6 930531	ENHANCING S & T CAPABIL. II	C	G	SD	1000	3530	14	14	26284
7 930524	ENHANCING S & T CAPABIL. II	C	G	FN	4000	4530	14	14	26249
8 931107.02	APPROPRIATE TECHNOLOGY - AII	C	G	FN	1625	10270	14	14	26251

DECISION PACKAGE - CURRENT (30)

9 930535	WATER RESOURCES MAPPING	N	U	FN	220	7150	14	14	26255
10 930524	ENHANCING S & T CAPABIL. II	C	G	SD	300	8050	14	14	26276
11 930518	CONSTAL RESOURCES MANAGEMENT	N	G	FN	220	8270	14	14	26253
12 930530	SEBU: APPROP + PRODUCTIVE TECHNOLOGY SPBRT	C	G	SD	225	8495	14	14	26274
13 930532	SEBU: TECHNOLOGY CHOICE FOR SMALL ENTERPRISE	N	G	SD	150	8645	14	14	26254
14 931107.01	APPROPRIATE TECHNOLOGY - AII	C	G	SD	1625	10270	14	14	26256

DECISION PACKAGE - PROPOSED (50)

15 930534	NATURAL RESOURCES MANAGEMENT TRAINING	N	U	SD	400	10670	14	14	26257
16 930514	COASTAL RESOURCES MANAGEMENT	C	G	FN	200	10870	14	14	26259
17 930536	CATAGORIAL PROTECTION & MAINTENED MGT.	N	G	FN	400	11270	14	14	26262
18 930537	LAND CAPABILITY ANALYSIS METHODS	N	G	SD	400	11670	2	16	26250
19 931113	ENVIRONMENTAL TRAINING AND GRANTS - II	C	G	SD	215	11885	16	16	26283
20 930531	DEFORSTATION SURVEY	N	U	FN	200	12085	16	16	26268
21 930535	WATER RESOURCES MAPPING	N	G	FN	215	12300	16	16	26260
22 930532	SEBU: TECHNOLOGY CHOICE FOR SMALL ENTERPRISE	C	G	SD	200	12500	16	16	26261
23 930524	ENHANCING S & T CAPABIL. II	C	G	SD	300	12800	16	16	26277
24 931107.02	APPROPRIATE TECHNOLOGY - AII	C	G	FN	3800	16600	16	16	26265



TABLE V - FY 1982 PROPOSED PROGRAM RANKING

ANK	DECISION PACKAGES/PROGRAM ACTIVITY DESCRIPTION	TERM/ NEW/ CONT.	LOAN/ GRANT	APPROP. ACCT.	DECISION UNIT DS/ST - Science Policy Division		WORK FORCE (Number of Positions)			
					INCR	GRM	INCR	GRM	INCR	GRM
1	MINIMUM Minimum Staff Required to Operate Office 936-5524 Enhancing S&T Capabilities II CURRENT	C	G	SD	1,000	1,000	2	2		
2	936-5524 Enhancing S&T Capabilities II EROTONSED	C	G	SD	300	1,300				
3	936-5524 Enhancing S&T Capabilities II	C	G	SD	300	1,600				

AM) 1930 9 (3-79)

TABLE V - FY 1982 PROPOSED PROGRAM RANKING

ANR	DECISION PACKAGE/PROGRAM ACTIVITY DESCRIPTION	TERM/NEW/CONT.	LOAN/GRANT	APPROP. ACCT.	DECISION UNIT PROGRAM FUNDING (\$'000)		WORK FORCE (Number of Positions)			
					INCR	CIM1	USDII INCR	GRM	INCR	CIM
MINIMUM										
Minimum Staff Required to Operate Office										
1	936-5519 Forest Resources Mgmt.	C	G	FN	1,000	1,000	7	7		
2	931-1209 E/NR Expanded Info. Base	C	G	SD	450	1,450				
3	931-5517 Environ. Planning & Mgmt.	C	G	SD	480	1,930				
4	931-1113 Environ. Trng. & Grants (NAB)	C	G	SD	300	2,230				
5	936-5531 Deforestation Survey	N	G	FN	300	2,530				
CURRENT										
6	936-5535 Water Resources Mapping	N	G	FN	220	2,750				
7	936-5518 Coastal Resources Mgmt.	N	G	FN	220	2,970				
PROPOSED										
8	936-5534 Natural Resources Mgmt. Trng.	N	G	SD	400	3,370				
9	936-5518 Coastal Resources Mgmt.	N	G	FN	200	3,570				
10	936-5536 Catchment Protection & Watershed Mgmt.	N	G	FN	400	3,970	2	9		
11	936-5537 Land Capability Analysis Methods	N	G	SD	400	4,370				
12	931-1113 Environ. Trng. & Grants	C	G	SD	215	4,585				
13	936-5531 Deforestation Survey	N	G	FN	200	4,785				
14	936-5535 Water Resources Mapping	N	G	FN	215	5,000				

AID 1330.9 (3-79)

TABLE V - FY 1982 PROPOSED PROGRAM RANKING

ANK	DECISION PACKAGES/PROGRAM ACTIVITY DESCRIPTION	TERM/ NEW/ CONT.	LOAN/ GRANT	APPROP. ACCT.	PROGRAM FUNDING (\$000)		WORKFORCE (Number of Positions)			
					INCR	CUM	USDH INCR	CUM	FNDR INCR	CUM
1	MINIMUM Minimum Staff Required to Operate Office 931-1071 ATI	C	G	FN	4,000	4,000	2	2		
	CURRENT									
2	936-5530 Approp. & Productive Tech.	C	G	SD	225	4,225				
3	936-5532 Technology Choice	N	G	SD	150	4,375				
4	931-1071 ATI	C	G	SD	1,625	6,000				
	PROPOSED									
5	936-5532 Technology Choice	N	G	SD	200	6,200				
6	931-1071 ATI	C	G	FN	3,800	10,000				

AID 1990-9 (3-79)

Bureau Code:

Decision Code:

DECISION UNIT DS/ST - Employment & Tech. Unit 5/15/80

OFFICE: 15/751

TABLE III - PROJECT OBLIGATIONS BY APPROPRIATION ACCOUNT
FY 1980 TO FY 1982 (S THOUSANDS)

239-9537, LAND CAPABILITY ANALYSIS METHODS \$0 \$0 \$0 \$0 \$400 31

TOTALS FOR SO \$100 \$4,500 \$2,230 \$4,530 \$5,045

* OFFICE TOTALS \$5,000 \$6,700 \$7,530 \$10,270 \$16,600

PROGRAM: CENTRALLY FINANCED

ACTIVITY DATA SHEET

PROJECT MANAGER: MOLLY KUX

TITLE: Environment & Natural Resources: Expanded Information Base	FUNDS: Selected Development Activities	PROPOSED OBLIGATION (in thousands of dollars)	ESTIMATED OBLIGATION	ESTIMATED OBLIGATION	ESTIMATED COMPLETION DATE
NUMBER 931-1209	NEW <input type="checkbox"/> CONTINUING <input checked="" type="checkbox"/>	PRIOR REFERENCE FY 1981, Annex V, Centrally Funded Programs, p. 197	FY 82 450	FY 83	FY 84
GRANT <input checked="" type="checkbox"/> LOAN <input type="checkbox"/>					

Purposes: To provide A.I.D. with improved information on environment and natural resource issues related to the development of LDCs.

Background and Progress to Date: Up-to-date information and better knowledge is needed about natural resources and how they can best be managed. Increasing population pressures, soil erosion and deforestation are causing decreases in agricultural production, energy resources, and adversely affecting human health. This project was initiated in FY 1979 to provide information which can be used by A.I.D. and other development agencies to design environmentally sound programs. This project consists of four categories of work: 1) state-of-the-art review papers, 2) case studies, 3) project design aids, and 4) dissemination of the results of the three previous categories through regional workshops and special publications. Activities and topics of specific inquiry that are on-going include:

- Review papers: (initiated in FY '79 and FY '80)
 - A review and analysis of methods for conducting natural resources and environmental surveys.
 - A study of different legal, regulatory and institutional approaches to the conservation and management of natural resources and the environment.
 - A review of methods for collecting environmental baseline data.
 - A review of selected ecological problems in the humid tropics.
 - A projection of future regional resource scarcities and environmental degradation.

Case studies in LDCs: (initiated in FY '81)

- Integrated resource planning, development and management.
- Public involvement in environmental protection.
- Governmental response to pollution and conservation problems.

Host Country and Other Donors: A number of international agencies, such as the World Bank, the Inter-American Development Bank, the United Nations Educational, Scientific and Cultural Organization, will cooperate in sharing their knowledge in this area by participating in workshops sponsored through the project.

Beneficiaries: The lives of the poor majority will be improved if LDC planners use the information and materials resulting from this project to design and manage environmentally sound programs.

FY '82 Program:
Initiation of selected project design aids for development activities such as:

- Irrigation project development and irrigated farming systems.
- Rain-fed farming systems in different climatic regions.
- Watershed management and conservation.
- Rural roads.
- Malaria control.

Major Outputs (and A.I.D. unit costs):

	(\$ thousands)	All Years
Review Papers	5 (115)	
Case Studies	3 (213)	
Project Design Aids	5 (50)	
Regional Workshops	4 (40)	
Special Publications and Translations	13 (29)	

A.I.D. Financed Inputs:

	FY '82
Personnel (125 person-months)	375
Other	75
Total:	450

U.S. FINANCING (in thousands of dollars)		U.S. FINANCING (in thousands of dollars)		U.S. FINANCING (in thousands of dollars)	
	Obligations	Expenditures	Unliquidated	Funding Period	Principal Contractors or Agencies
Through September 30, 1979	1,290	-	1,290		Department of the Interior and subcontractors
Estimated Fiscal Year 1980	1,290	600	690		
Estimated through September 30, 1980	1,290	600	690	10/1/80-10/1/81	
Proposed FY 1981:	300	300	390		
Estimated through Fiscal Year 1981	1,590	1,200	2,080	10-1/81-10/1/82	
Proposed FY 82	450	160	2,200		

7/15/81

TITLE: Environmental Planning and Management	FUNDS Selected Development Activities	PROPOSED OBLIGATION (in thousands of dollars)	LIFE OF PROJECT	ESTIMATED COMPLETION DATE
Number: 936-5517	NEW <input type="checkbox"/> CONTINUING <input checked="" type="checkbox"/>	PRIOR REFERENCE FY 1981, Annex V, Centrally Funded Programs, P. 198	FY 82 480	FY 85
GRANT \$? LOAN <input type="checkbox"/>		INITIAL OBLIGATION FY 81	ESTIMATED FINAL OBLIGATION FY 84	

Purpose: To assist I.D.C.s in developing more effective environmental protection and natural resources management institutions.

Beneficiaries: The poor majority in the IDCs will benefit due to better government planning and management of development programs which address their environmental protection and natural resources needs.

Background and Progress to Date: There has been a dramatic change in government attitudes about environmental and natural resource management in the developing world since the Stockholm Conference on the Human Environment in 1972. Many more governments are aware of the need and are setting up their own administrative and institutional mechanisms. A.I.D. has become a recognized leader in this area over the past years through its adoption of environmental procedures and the new mandate provided by Congress in the form of Sections 118 & 103(b) of the FMA on Environment and Natural Resources.

A.I.D. has received an increasing number of requests for assistance in environmental planning and management (legal, Thailand, Indonesia, Nigeria and Kenya among others). The Agency needs a capacity to respond systematically to these requests. This activity has built on information developed in the MAR project, which provided baseline environmental data on thirty-one (31) countries and on the FY 179 project, "Environment and Natural Resources: Expanded Information Base", which conducted a review of legal, regulatory, and institutional aspects of environmental protection, and analyzed different approaches in countries such as Costa Rica, Venezuela, the Sudan, Ghana, Israel, Indonesia, Malaysia and Korea which have experience in establishing national institutional frameworks. The initial phase of this project surveyed and analyzed sources of natural resource and environmental management expertise and experience at the international, national, state and local government levels, in the university community and in other organizations in order to identify qualified intermediaries.

Major Outputs (and A.I.D. unit costs):

Survey of capability and resources	1 (200)
Intermediary for providing technical assistance & grants	1 (550)
Organizational models and training at national and local levels	5 (220)
	(\$ thousands)
	All Years

Host Country and Other Donors: The United Nations Environment Programme (UNEP), United Nations Food and Agriculture Organization (FAO), United Nations Educational, Scientific and Cultural Organization (UNESCO), the International Union for the Conservation of Nature (IUCN), Organization for Economic Cooperation & Development (OECD), and the World Health Organization (WHO) as well as other bilateral and multilateral development agencies were contacted to participate in the planning and financing of this activity.

A.I.D.-Financed Inputs:

Personnel (125 person-months)	375
Grants, training, libraries, and other	105
Total:	480

FY 1982

U.S. FINANCING (in thousands of dollars)

	Obligations	Expenditures	Unliquidated	Funding Period	Principal Contractors or Agencies
Through September 30, 1979	-	-	-		U. S. Dept. of the Interior United States universities The International Union for the Conservation of Nature (IUCN)
Estimated Fiscal Year 1980	-	-	-		
Estimated through September 30, 1980	300	200	100	10/1/80 - 9/30/81	
Fiscal FY 85:	300	200	100		
Estimated through Fiscal Year 1981	480	200	100	10/1/81 - 9/30/82	
Proposed FY 82	-	1,070	1,850		

ACTIVITY DATA SHEET

PROJECT MANAGER: John Daly

TITLE	Enhancing S&T Capabilities I	FUNDS	Selected Development Activities	PROPOSED OBLIGATION (in thousands of dollars)	LIFE OF PROJECT	ESTIMATED COMPLETION DATE
Number	936-5524	NEW <input type="checkbox"/>	PRIOR REFERENCE	FY 82 1,600	4, 200	
GRANT <input type="checkbox"/>	LOAN <input type="checkbox"/>	CONTINUING <input checked="" type="checkbox"/>	FY 1981 Annex V, Centrally Funded Programs, P. 201	INITIAL OBLIGATION	ESTIMATED FINAL OBLIGATION	ESTIMATED COMPLETION DATE
				FY 81	FY 83	FY 83

Purpose: To strengthen the capacity of IDCs to use science and technology to meet basic human needs.

Background and Progress to Date: In August 1979 the UN Conference on Science and Technology for Development reaffirmed the interest of the developed and developing countries in strengthening LDC science and technology (S&T) capacity. S&T assistance is a well established element of A.I.D. bilateral programs in Indonesia, and Tunisia, A.I.D. intersectoral S&T projects have sought to strengthen research and development, appropriate technology, and technology-transfer institutions to achieve growth with equity.

The National Academy of Sciences (NAS) has been funded for 15 years by A.I.D. and has conducted workshops in 39 developing countries, bringing together U.S. and host country experts, to provide disinterested scientific advice on the application of S&T to development. Often these workshops stimulated bilateral assistance projects. The "Enhancing S&T Capabilities I" project included, for example, a Mauritania meeting on reforestation, a Philippine meeting on technology for rural development, and a meeting in Sudan on management of aquatic weeds.

The project also funds the publication of monographs of the NAS Advisory Committee on Technological Innovation (ACTI). Recent publications include: Tropical Legumes: Resources for the Future, Methane Generation from Human, Animal and Agricultural Wastes, and Microbial Processes: Promising Technologies for Developing Countries. 200,000 copies of these monographs are in print. They have helped start hundreds of projects to use new resources in developing countries and in the U.S. (e.g. current U.S. research in arid lands plants - rayvule and Jobba - was strongly influenced by NAS reports).

NAS also has conducted a number of special studies on subjects of major importance to development assistance policy. These included the World Food and Nutrition Study and the study of Post Harvest Food Losses. The current project will fund studies in such areas as implications for A.I.D. initiatives in the international mineral situation and of revolutionary developments in electronic communication and data processing technology and molecular science.

- MINIMUM (\$000)
- 1000
 - 6 Workshops
 - 2 Studies
 - 3 Person years advisory services

U.S. FINANCING (in thousands of dollars)

	Obligations	Expenditures	Unliquidated	Funding Period	Principal Contractors or Agencies
Through September 30, 1979					
Estimated Fiscal Year 1980		600			
Proposed FY 1981		600	600	4/1/81 - 3/30/82	National Academy of Sciences and other Contractors to be selected.
Estimated through Fiscal Year 1981		1,200			
Proposed FY 82		1,200	600	4/1/82 - 3/30/83	
		1,600	Estimated Total Cost		
		1,600	4,200		

The current program continues the series of joint NAS-LDC workshops providing disinterested professional advice on technical issues. It also continues the publication of ACTI studies, and provides for informal discussion meetings on S&T policy issues of importance to A.I.D. Finally the project will fund country specific assessments of the gaps between existing S&T capabilities and the needs of the poor majority in order to identify priorities for A.I.D. projects.

Host Country and Other Donors: Host countries and other donors share costs for workshops, usually providing salary and expenses for most participants. An estimated 10,000 U.S. scientists have donated time and effort without pay to this program in the past, and there will continue to be a substantial voluntary effort in the future.

Beneficiaries: LDC S&T institutions benefit directly from this program. The goal is to focus their improved capabilities on needs of the poor. Appropriate capital savings technology is being emphasized to increase income and employment

FY 82 Program: Workshops will be conducted in six countries and two ACTI studies will be conducted. Four person years of additional advisory services will be provided to AID missions and LDC's, and two S&T assessments will be funded.

Major Outputs (and A.I.D. Unit Cost):

	All Years	(\$ thousands)
Country S&T assessments	3	(150)
Workshops and seminars	16	(100)
Reports and studies	10	(125)
S&T policy advisory services (person-years)	9	(50)
Core support	3	(150 per year)
TOTAL		1,600

A.I.D. Financed Inputs:

	CURRENT (\$000)	PROPOSED (\$000)
Personnel (264 person months)	300	300
Other costs		
TOTAL		

One study/1/2 person year
Advisory service/one assessment

One study/1/2 person year
Advisory service/one assessment

TITLE: A.T. International (ATI)	FORMS: Agriculture, Rural Development and Nutrition; Selected Development Activities	PROPOSED OBLIGATION (in thousands of dollars)	INITIAL OBLIGATION FY 78	ESTIMATED FINAL OBLIGATION FY 82	LIFE OF PROJECT	ESTIMATED COMPLETION DATE
NUMBER: 931-1071	NEW <input type="checkbox"/> CONTINUING <input checked="" type="checkbox"/>	FY 1981, Annex V, Centrally Funded Programs, p. 210	\$9,425	Continuing	continuing	continuing
GRANT <input checked="" type="checkbox"/> LOAN <input type="checkbox"/>	PRIOR REFERENCE					

Purpose: To assist poor people of developing countries improve their ability to choose among alternate technologies and to make better use of local resources.

Background and Progress to Date: This project provides funding to A.T. International to develop, adapt, and disseminate appropriate technologies as well as to support indigenous LDC organizations in these efforts. A.T. International (ATI) was organized in December 1976 and was funded in June 1977 with a grant of \$1,000,000 to organize, staff, and start their program. Under the first grant, ATI financed a small program with Volunteers in Technical Assistance (VITA) to train local people in the techniques and methods of disseminating appropriate technology. ATI also negotiated subgrants for a small-scale cement plant project in India, a small-enterprise financial service fund in northeast Brazil, and a Haitian appropriate technology development project.

A second grant for three years was made on August 31, 1978, with initial funding of \$7,660,000. In FY 1979 an additional \$4,660,000 was obligated with additional funding in FY 1980 and 1981 anticipated to total \$7,400,000. ATI implements its program principally through subgrants and technical assistance to local development organizations in the LDC's. During the first two years of the new grant ATI increased its portfolio to about 100 subgrants in about 25 developing countries. The main focus of ATI's program is on improving the appropriate technology dissemination process at the local level. Its main purpose is to assist, in conjunction with local resources, in developing self-sustaining appropriate technology dissemination capability by providing a 2-3 year grant and technical assistance. The principal technology focus is on energy, rural technologies, construction and the software technologies associated with the development of small-enterprises.

A review of ATI's current status and operations was completed and issued in report form in July 1979. The report made a number of constructive recommendations dealing with present and future operations that are presently being implemented. A full program evaluation will be completed before the end of the grant.

Host Country and Other Donors: ATI subgrants are generally predicated on the concurrent availability of other funding sources both local and external. To date ATI subgrants have attracted \$1 to \$2 from other sources for each dollar of grant from ATI. This additional support comes from private, host country government, foundation, private voluntary organizations, and international financial sources.

Beneficiaries: The beneficiaries will be the poor in developing countries whose basic human needs are met through the appropriate use of capital-saving technology to generate income and employment. LDC appropriate technology organizations also benefit from demonstration projects and advisory services.

U.S. FINANCING (in thousands of dollars)		Funding Period		Principal Contractors or Agencies
Obligations	Expenditures	Unobligated		
Through September 30, 1979	\$ 9,600	\$ 6,907	6 mos. FY 81	A.T. International
Estimated Fiscal Year 1980	3,300	5,500		
Estimated through September 30, 1980	12,900	8,193	7 mos. FY 81 + 82	
Proposed FY 1981	4,100	7,500		
Estimated through Fiscal Year 1981	17,000	13,693	1,307	
Proposed FY 82	9,425		12 mos. FY 82 + 83	
			Continuing	

FY 82 Program: Funds for FY 1982 continues ATI's activities beyond the second grant period.

Major Outputs (and A.I.D. Unit Cost):

Subgrants (including technical assistance and administrative costs in 35-45 developing countries). 210 (\$ thousands) FY 78 thru FY 82 unit (cost) (125.00)

A.I.D. Financed Inputs:

- Direct Grants \$5,000
- Technical Assistance 2,600
- Administration 1,825

Functional Accounts:

Agriculture, Rural Development and Nutrition

Selected Development Activities

Minimum	Current	Proposed
4,000 FN	1,625 SD	3,800 FN

PROGRAM: Centrally Funded

ACTIVITY DATA SHEET

PROJECT MANAGER: Charles F. Withington

TITLE	Water Resources Mapping	FUNDS	Agriculture, Rural Development, and Irrigation	PROPOSED OBLIGATION (in thousands of dollars)	INITIAL OBLIGATION FY 82	ESTIMATED FINAL OBLIGATION FY 84	LIFE OF PROJECT	1, 185	ESTIMATED COMPLETION DATE	FY 85
NUMBER	98-5535	NEW <input checked="" type="checkbox"/>	CONTINUING <input type="checkbox"/>	PRIOR REFERENCE						
GRANT <input type="checkbox"/>	LOAN <input type="checkbox"/>			Hong						

Purpose: To develop techniques by which LDCs can better anticipate water supplies available in their countries and relate them to agricultural production and range conditions.

Background: Most developing countries are unable to predict reliably the amount of water which they can expect to be available during the growing season. Although most LDCs have hydrologic departments which can collect and analyze data, many lack the equipment and adequately trained personnel to predict surface water availability or potential groundwater sources. Most LDCs rely on the U.S. National Oceanic and Atmospheric Administration (NOAA) assessment of their climatic conditions, based upon weather satellite data and limited reports of rainfall from ground collection stations. It is almost impossible to make accurate predictions using these widely scattered data. Areas such as Ecuador and Peru, which are partially dependent upon runoff from mountain snow for their water supplies, have limited means for determining water reserve in the snow cover. When there is a rainfall deficiency, as was the case in the spring of 1980, the situation becomes desperate.

This project will train LDC resource managers in the techniques of integrating satellite and ground-based geophysical data to locate and identify water sources, both surface and subsurface. In addition, selected LDCs will be equipped with data collection platforms, river and rain gauges, and with mini-computers to process imagery and analyze relevant data.

Host Country and Other Donors: LDCs will provide personnel to be trained in techniques of analyzing data collected from both satellites and ground surveys for water resource evaluation. NOAA and/or the World Meteorological Organization will be approached to teach their techniques of climate analysis and to contribute to the training costs.

Beneficiaries: LDC farmers will benefit due to better water supply forecasts and identification and development of additional groundwater sources.

- CURRENT
(220)
- 1) Personnel (12 person-months) 35
 - 2) LDC students (one only) 20
 - 3) Data and maps 20
 - 4) Instrumentation 15
 - 5) Modeling and analysis 130

FY 1982 Program: Four LDCs, located in one geographical region (such as the southern African front-line states) will be selected for the project, with a complete water budget (supply-demand) prediction modeled for one LDC as a demonstration. Two LDC water resource planners will be enrolled for graduate-level training in a U. S. university, and several more will undergo short-term training in remote sensing. Data from Landsat and meteorological satellites, geological maps, rain gauges, river flow meters and geophysical instruments will be analyzed to test models for predicting water supply. LDC locally collected data will be used to predict water demand so that water sufficiency or deficit can be determined. A regional seminar will be held to introduce concept and methodology to the other three LDCs participating in the project.

Major Outputs (and A.I.D. Unit Costs):

	unit	cost
Training and seminars	4	(89)
Data, maps, imagery and instrumentation	4	(125)
Modeling and analysis of water budget	4	(82)

A.I.D.-Financed Inputs:
LDC student costs (in U.S.)
Satellite data and maps
Geophysical instrumentation (ground-based)
Water budget modeling and analysis

	FY 1982
TOTAL:	435

- PROPOSED
(215)
- 1) Personnel (12 person-months) 35
 - 2) LDC students (one additional) 15
 - 3) Instrumentation 165

U.S. FINANCING (in thousands of dollars)		Unguaranteed	Funding Period	Principal Contractors or Agencies
Through September 30, 1979	Obligations			
Estimated Fiscal Year 1990				To be selected from:
Estimated through September 30, 1980				South Dakota State University
Proposed FY 1981				NOAA
Estimated through Fiscal Year 1981	435	Future Year Obligations	10/1/81 - 9/30/82	Spectral Data Corporation
Proposed FY 82		750		
		Estimated Total Cost		
		1,185		

202
5/83

TITLE Coastal Resources Management		FUNDS Agriculture, Rural Development and Nutrition		PROPOSED OBLIGATION (in thousands of dollars)	ESTIMATED FINAL OBLIGATION	LIFE OF PROJECT	ESTIMATED COMPLETION DATE
NUMBER 976-5518	NEW <input checked="" type="checkbox"/> CONTINUING <input type="checkbox"/>	PRIOR REFERENCE	None	FY 82 420	FY 85	PROJECT	2,500
GRANT #	LOAN #			INITIAL OBLIGATION FY 82			

Purpose: To develop a model for and to improve the management and utilization of coastal resources in developing countries.

Background: Roughly 70 percent of the world's population lives in or within reasonable proximity to coastal zones. Together with the estuaries, lagoons, marshes, beaches, bays and harbors, these areas are an important resource. They provide the basis for commercial and industrial development as well as being one of the most important sources of food. The productivity and stability of coastal areas are being undermined due to inadequate land-use planning and management. Coastal zone deterioration is a major environmental problem in all four geographic regions in which A.I.D. operates. Specific problems cited by over 31 A.I.D. Missions include: depletion of fish stocks due to over-fishing and loss of breeding grounds; desertification; vegetation and destruction of mangrove forests; coastal erosion caused by urban and commercial development and conflicts between industrial and tourist development; impact of pesticides and silt, mining and industrial wastes on coastal regions from inland development; construction of dams which result in modification of river flows; and severe pollution of coastal waters by oil from tanker traffic and domestic and industrial wastes. Despite much effort the problems are growing. Developing countries lack coordinated planning and management capacity and authority as well as sufficient numbers of trained scientists and managers and adequate data to mobilize adequate and timely responses.

Host Country and Other Donors: Countries selected to participate in this project will be those which have identified coastal problems as a priority area and where host government initiatives, including contributions, will be expected. Close coordination will be maintained with other international or regional programs and opportunities for cooperative activities explored.

CURRENT (220)
- Study U.S. Capability in Relation to LDC Needs

Beneficiaries: LDC governmental and educational institutions in the countries that participate in this project will have increased capability to manage their coastal areas. The basic human needs of the people living in coastal areas will be better satisfied through the control of environmental degradation.

FY 82 Program: Surveys will be undertaken to (1) determine LDC needs in coastal resources management and (2) identify U.S. expertise in coastal resources management which can be tapped to satisfy those needs. An analysis of U.S. experiences potentially useful to LDCs will be prepared and a concurrent review of LDC efforts and needs in coastal resources management will be matched to U.S. capability for assistance. A second phase of the project will include cooperative research, training and institution building activities with LDC counterparts in several countries.

Major Outputs (and A.I.D. unit cost):

Survey/study of U.S. capability and experience and impact on LDC needs	1	(310)
Development and testing of approaches to institutionalize management capacity in 3 LDCs	3	(550)
Coastal Zone Management Training Programs	3	(60)
A.I.D. Financed Inputs:		
Personnel (168 person months)		420

PROPOSED (200)
- Launch One (1) LDC Management and Improvement Program

U.S. FINANCING (in thousands of dollars)		Future Year Obligations		Principal Contractors or Agencies	
Obligations	Expenditures			Funding Period	
Through September 30, 1979	0	0	0		Not-for-profit Research Institute
Estimated Fiscal Year 1980	0	0	0		
Estimated through September 30, 1980	0	0	0		
Proposed FY 1981	0	0	0		
Estimated through Fiscal Year 1981	0	0	0		
Proposed FY 82	420	2,080	2,500	10/1/81 - 9/30/82	

TITLE	GRIP - Appropriate Productive Technology Support	FUNDING	Selected Development Activities	PROPOSED OBLIGATION (in thousands of dollars)	LIFE OF PROJECT	ESTIMATED FINAL OBLIGATION	ESTIMATED COMPLETION DATE
NUMBER	936-5530	PRIOR REFERENCE	FY 1981 Annex V, Centrally Funded Programs, p 200	FY 82 225	FY 82	FY 84	FY 85
GRANT TYPE	LOAN <input type="checkbox"/> CONTINUING <input checked="" type="checkbox"/>			INITIAL OBLIGATION FY 81			

Purpose: To promote conditions in LDCs that lead to the adaptation and use of productive technologies appropriate to the needs and resources of the poor, emphasizing those technologies that have low capital requirements and provide productive employment opportunities to the poor.

Background and Progress to Date: In keeping with Section 107 of the Foreign Assistance Act, A.I.D. has expanded and coordinated efforts "to promote the development and dissemination of technologies appropriate to developing countries." This project funds U.S. organizations to carry out support functions in that effort. The support needed differs from country to country. Specific interventions are chosen for the country's circumstances. Activities include:

- 1.) Workshops to motivate host-country officials to incorporate capital-savings appropriate technology concepts in their planning.
- 2.) Case studies, catalogues and similar activities to organize a body of information on proven, field tested capital-savings technologies, and efforts to assure that this information is widely shared among A.I.D. missions.
- 3.) Short advisory missions on technology policy, assessments of requirements for program assistance or project design and evaluation.

The expectation is that these efforts will lead to new or improved capital savings technology projects in 20 countries by the end of the project.

Where applicable, U.S. appropriate technology organizations will be involved in supplying expertise to Missions and in developing the capabilities of LDC indigenous organizations to implement Mission projects.

Specific countries to be involved in this program will probably include Indonesia, India, Ecuador, Costa Rica, Honduras, Haiti, Kenya, Upper Volta, Mauritania, and Yemen. A workshop on capital-savings technology strategy will be held in Latin America. Initial field visits will be made to identify and review appropriate technology field trials, and an initial catalogue of income and employment generating technologies is to be developed. Advisory missions will be made to approximately 8 A.I.D. countries.

Host Country and Other Donors: None

Beneficiaries: The beneficiaries will be the poor in developing countries whose basic human needs are met through the appropriate use of technology that will generate income and employment. IDC appropriate technology organizations and A.I.D. missions will also benefit from advisory services, from increased mission and host-country funding and from the information organized and disseminated through this project.

FY 82 Program: One workshop will be held for the Asian region, work will continue on cataloging and disseminating capital savings technology information, and advisory missions will be made to approximately eight A.I.D. countries. Initial experience with resources, models and methods to promote the development and diffusion of capital-saving technologies will be documented.

Major Outputs (and A.I.D. Unit Cost):

	(\$ thousands)	All Years Unit	(cost)
Workshops	150	1	(150)
Cataloging of Productive Techniques (person months)	150		(5)
Direct Field Support (person months)	150		(5)
A.I.D. Financed Inputs:			
Personnel (45 person months)	135		
Other Costs	90		
	225		

U.S. FINANCING (in thousands of dollars)

	Obligations	Expenditures	Unliquidated	Funding Period	Principal Contractors or Agencies
Through September 30, 1979	-	150	150		Principal contractors selected from PVO's, universities and private industry.
Estimated Fiscal Year 1980	-	150	150	4/81 - 10/82	
Estimated through September 30, 1980	-	300	300		
Proposed FY 1981	-	300	150		
Estimated through Fiscal Year 1981	-	300	150		
Proposed FY 82	225	1,300	1,825	10/82 - 4/83	
					Estimated Total Cost

PROGRAM: Centrally Funded

ACTIVITY DATA SHEET

PROJECT MANAGER: John Daly

TITLE: NSU - Technology Choice For Small Enterprises	FUNDS: Selected Development Problems	PROPOSED OBLIGATION (in thousands of dollars)	PROJECT MANAGER: John Daly
NUMBER: 916-5532	NEW <input checked="" type="checkbox"/> CONTINUING <input type="checkbox"/>	INITIAL OBLIGATION FY 82: 350	ESTIMATED FINAL OBLIGATION FY 84
GRANT <input checked="" type="checkbox"/> LOAN <input type="checkbox"/>		Major Outputs (and A.I.D. Unit Costs)	LIFE OF PROJECT: 1, 100
			ESTIMATED COMPLETION DATE OF PROJECT: FY 85

Purpose: To Improve A.I.D. and host government understanding of impacts of over-all development policies and of small business policies on technology choice in small enterprises. This should lead to more effective capital-savings technology strategies.

Background: In the capital-savings-technology strategy presented to the Congress AID recognized the need to better understand the impact of LDC national macro-economic policies on technology choice by small enterprises. For example, labor legislation, international trade policies, and national economic policies can each tend to encourage or discourage small enterprises from adopting employment generating light-capital technological innovations. Similarly the strategy recognized that lack of credit, insurance, properly trained labor, equipment, work space, markets, input materials, or infrastructure could constrain entrepreneurs from adopting capital savings technologies, and that appropriate government projects attacking the key constraints could thus promote self-sustaining technological improvement. However better understanding is required of the interplay of these factors, and of the precise linkages between LDC Government projects to remove constraints and actual technological improvement.

Other agencies are studying this topic such as the Canadian IDRC (especially in 5-year, 10-nation S&T Policy Instruments study), the World Bank, A.T. International and the National Science Foundation (NSF). Specifically, NSF funded three US groups in 1979 to begin studies on technology choice in developing countries and planned in FY 80 to fund a 3-year study. We estimate NSF will fund US institutions in their complementary project at \$1,400 over its four year duration. The current AID project is proposed to fund LDC institutions in AID supported countries to work in collaboration with NSF's grantee, on the subject of technological choice in small enterprises.

Host Country and Other Donors: It is expected host country institutions will contribute personnel and facilities to the analysis.

Beneficiaries: Direct beneficiaries will be policy analysts in LDCs. Indirectly the project is intended to benefit the proprietor enterprises.

FY 82 Program: The project will begin with the selection of a US coordinating institution and with initial grants to participating LDC institutions.

Country studies of "technology choice"
 -Field tested methods for the study of technology choice (report) 1 (150)
 -LDC capacity to better understand dynamics of small enterprise technology choice 3 (byproduct)
 A.I.D. Financed Inputs
 Personnel (110 person months) 300
 Materials and miscellaneous 50

Current (150) Proposed (200)
 One country study Two country studies

U.S. FINANCING (in thousands of dollars)		Funding Period		Principal Contractors or Agencies
Through September 30, 1979 Terminated Fiscal Year 1979	Through September 30, 1980 Proposed FY 1981	1/15/82	1/15/83	
		Unobligated		To be determined
		Obligations		
		Expenditures		
			Future Year Obligations	
			750	
			Estimated Total Cost	
			1,100	

PROGRAM: GENERALY FINNED

ACTIVITY DATA SHEET

PROJECT MANAGER: Dan Deely

Title: Catchment Protection and Watershed Management
 Number: 936-5536
 Grant #: LOAN NEW CONTINUING
 Division: Nutrition
 Priority Reference: None

PROPOSED OBLIGATION (in thousands of dollars)	FY 82	400	PROJECT	3,000
INITIAL OBLIGATION	FY 82		ESTIMATED FINAL OBLIGATION	FY 85
			ESTIMATED COMPLETION DATE	FY 86

Purpose: To improve the effectiveness of IDC and A.I.D. projects dealing with catchment protection and watershed management.

Host Country and Other Donors: It is expected that A.I.D. Missions will share costs of promising approach project designs, advisory services and watershed management training.

Beneficiaries: IDC Government organizations will benefit from improved understanding of effective approaches to watershed management and the basic human needs of the poor in upland marginal areas will be better met through more effective assistance programs.

FY 82 Program: The FY 82 program will concentrate on examination of assistance experience in watershed management and on conducting field team examinations of selected sites in IDCs.

Major Outputs (and A.I.D. unit cost):

	All Years	unit	(cost)
Experience Examination	15	(50)	
Information/Guidelines	5	(50)	
Analyses of Social and Technical Information	3	(50)	
and Training Needs	10	(100)	
Demonstration Designs	40	(20)	
Consultancies			
TOTAL			400

A.I.D. Financed Inputs:
 Personnel (160 person months)
 FY 82 400

As an example of the problems inherent in watershed management, damages from flooding, erosion, sedimentation and land productivity decline have increased seriously in Pakistan through poorly managed and improperly planned upland area development and-use patterns. This has occurred in spite of well-meaning actions taken in the past with only limited success to address the problems. As early as 1880, the British colonial government became concerned about erosion and imposed restrictive land-use in the Punjab region. Soil conservation activities were assigned to the Punjab Forest Department in 1935, and by 1947, reforestation, grazing controls, and structural erosion controls had been implemented in several catchment areas. In spite of the efforts of the Pakistan Government, foreign advisors and international assistance organizations (involving rehabilitation projects, inventories, surveys, research and education), remedial measures to solve these problems have not been taken on many of the problem watersheds and an overall solution has not been achieved.

This project will examine the successes and failures in assistance project experience and will analyze past history of watershed deterioration in the face of changing social conditions and growing population pressure. Guidelines and information on project design will be developed and the most effective approaches and the most promising mechanisms will be identified. Teams will be sent to selected IDCs to examine watershed conditions and look at program effectiveness. Technical information, deficiencies and social problems limiting success will be identified and research and training priorities established. Demonstration sites for recommended approaches and promising mechanisms will be developed and capabilities for advisory support and training services to A.I.D. Missions and IDCs will be provided.

U.S. FINANCING (in thousands of dollars)	
Obligations	Expenditures
Through September 30, 1979	
Estimated Fiscal Year 1980	
Estimated through September 30, 1980	
Proposed FY 1981	
Estimated through Fiscal Year 1981	
Proposed FY 82	400
	Future Year Obligations
	2600
	Estimated Total Cost
	3000

Unliquidated	Funding Period	Principal Contractors or Agencies
	10-1-81 - 9-30-82	To be selected from University Consultants with Professional Organization Advisor (American Society of Civil Engineers Watershed Management Committee)

PROGRAM: Centrally Funded

ACTIVITY DATA SHEET

PROJECT MANAGER: Dan Deely

Land Capability Analysis Methods

TITLE	NUMBER	NEW
	9M-5577	X3
GRANT	LOAN	CONTRIBUTING
X		L

FUNDS Selected Development Activities

PRIOR REFERENCE	None
-----------------	------

Purpose: To support improved LDC forest land-use and allocation decisions through development and more widespread application of objective land-use capability and suitability analysis methods.

Background: Unsustainable land use development patterns in many LDCs have become increasingly apparent over the past several years. Both planned colonization/settlement schemes and various forms of unplanned development can be improved through the introduction of objective information on capability and suitability of land for numerous agriculture, range, forestry, water and other uses. Land allocation for sustainable long-term use must consider both commodity and non-commodity output possibilities and environmental services.

This project will examine recent experience in land capability analysis methods for a wide range of uses and applications. Rapid, low-cost approaches best suited to particular LDC needs will be stressed. Approaches and methods will be described for a broad spectrum of purposes from national or regional surveys such as those done in support of colonization programs, to such larger scale small-area applications as selection of sites for community woodlots at the local level.

Social, cultural, and demographic data and data projections, as well as physical information, will be included. Methods of data acquisition will extend from background data compilation to remote sensing and field data collection. Information on recommended approaches for specific applications will be widely circulated and transferred, training courses focused on the most common applications needs will be developed and a capability for on-call advisory services will be developed and provided to LDCs and A.I.D. Missions.

PROPOSED OBLIGATION (in thousands of dollars)

FY 82	400	INITIAL OBLIGATION	FY 82
ESTIMATED FINAL OBLIGATION	FY 85		

LIFE OF PROJECT 2,500

ESTIMATED COMPLETION DATE	FY 86
---------------------------	-------

Host Country and Other Donors: None

Beneficiaries: LDC development and natural resources planning and management organizations will be provided with increased capability for serving the long-term interests of the poor majority, through sustainable land-use allocation.

FY 1982 Program: The FY '82 Program will concentrate on analyzing recent LDC land-use capability applications experience in a wide spectrum of user situations.

Major Outputs (and A.I.D. Unit Costs):

Applications Analyses	unit	(cost)
Applications Guidelines	20	(40)
Training Courses	20	(43)
Advisory Consultancies	6	(40)
	40	(15)

A.I.D.-Financed Inputs:

Personnel (160 person-months)	400
TOTAL:	400

U.S. FINANCING (in thousands of dollars)		Unliquidated	Funding Period	Principal Contractors or Agencies
Obligations	Expenditures			
Through September 30, 1979				
Estimated Fiscal Year 1980				
Estimated through September 30, 1980				
Proposed FY 1981				To be selected from University, Government, Nonprofit Institutions
Estimated through Fiscal Year 1981				
Proposed FY 82	400	Future Year Obligations	10/1/81 - 9/30/82	
		2,100		
		Estimated Total Cost		
		2,500		

DS/ST

OFFICE STAFF LISTING

Direct Hire
Field Support Provided
(in months)

Position	FY 80	FY 81	FY 82
1. Office Director	1.0	1.5	1.5
2. Program Analyst	0	0	0
3. Physical Scientist	.5	1.0	1.5
4. Physical Scientist (Remote Sens.)	3.0	3.5	3.5
5. Physical Scientist	3.0	3.0	3.5
6. Environ. Protection Specialist	3.0	3.0	3.0
7. Physical Scientist (Nat. Resources)	2.5	3.5	3.5
8. Physical Scientist	1.5	2.0	2.0
9. Business/Ind. Technologist	.5	.5	.5
10. Secretary	0	0	0
11. Secretary	0	0	0
12. Secretary	0	0	0
13. Secretary	0	0	0
14. Secretary	0	0	0
15. Physical Scientist (Nat. Resources)	0	0	2.5
16. Secretary	0	0	0
17. Deputy Director	0	0	0
18. Coordinator for UNGSTP	1.0	0	0
19. Construction Engineer	.5	0	0
20. Secretary	0	0	0
Totals	16.5	18.0	21.5

Reductions

- 10% less:
(than 16)
- Eliminate the additional Physical Scientist (Natural Resources) (15). This step will prevent the Office from developing and managing two new projects in the Proposed Decision Package.
 - Eliminate the Secretary (16). Will not permit adequate support if the Proposed Decision Package is approved.

Additions

10% more
(than 16)

This exercise would require a justification for 18 positions. Under the present circumstances, such a target appears to be unrealistic.

- Note:
- (1) Positions 1 thru 14 represent FY 82 combined Minimum and Current level.
 - (2) Positions 1 thru 16 represent FY 82 combined Minimum, Current and Proposed level.
 - (3) Positions 17 thru 20 apply to FY 80 only.

DS/ST
FUNDING AND STAFF PROJECTIONS
(\$ thousands)

	FY 80		FY 81		FY 82		FY 83		FY 84		FY 85		FY 86															
	DH	PT																										
FARF (Total)	18	5	0	1	14	5	0	1	14	1	0	0	14	3	0	0	16	3	0	1	18	3	0	1	18	3	0	1

ollar Amount by
Appropriation
(i.e., Health)

	FY 80		FY 81		FY 82		FY 83		FY 84		FY 85		FY 86		
	SD	FN	SD	FN	Min.	Cur.	Prop.	SD	FN	SD	FN	SD	FN	SD	FN
SD	700	4,300	4,800	1,900	2,230	4,530	6,045	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000
FN	4,300	1,900	1,900	5,300	5,300	5,740	10,555	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Total	5,000	6,700	6,700	7,530	7,530	10,270	16,600	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000

* FY 83 through FY 86 is based on approval of FY 82 at AAPL.

CONTRACT/GRANT
FIELD SUPPORT
(\$1000)

Project	FY'80			FY'81			FY'82			Planned					
	Total Cost	Field Support (Dollars)	Fid. Sup. Pers. Mos.	Total Cost	Field Support (Dollars)	Fid. Sup. Pers. Mos.	Total Cost	Field Support (Dollars)	Fid. Sup. Pers. Mos.	Total Cost	Field Support (Dollars)	Fid. Sup. Pers. Mos.			
931-1223 Enhancing S&T Capabilities	200	200	40												
931-1271 ATU	3,300			4,100			4,000			1,625		3,800			
936-5519 Forest Resources Mon.	1,000	750	300	500	600	150	1,000	750	100						
931-1113 Environ. Trng. & Grnce (OAR)	500	80	16				300	40	8			215			
936-5524 Enhancing S&T Capabilities II				1,200			1,000			300		300			
936-5520 Average & Productive Tech.				300			300			225		225			
931-1209 E/NR Expanded Info. Base				300			300			225		225			
936-5517 Environ. Planning & Mgmt.				300			480			45		45			
936-5531 Deforestation Survey				300			480			45		45			
936-5535 Water Resources Mapping							300			225		225			
936-5518 Coastal Resources Mgmt.							300			225		225			
936-5532 Technology Choice							100			3		3			
936-5534 Natural Resources Mgmt. Trng.							300			225		225			
936-5536 Catchment Protection & Watershed Mgmt.							300			225		225			
936-5537 Land Capability Analysis Methods							300			225		225			
Total	5,000	1,030	356	6,700	780	228	7,530	1,250	347	2,740	425	67	6,330	1,080	116

150

200

80

400

750

400

250

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

AGRICULTURE, RURAL DEV. AND NUTRITION

PROJECT NUMBER	TITLE	OBLIG DATE	NEXT EVAL INIT FIN DATE	FY 79	FY 80	FY 81	FY 82	FY 83	FY 84	FY 85	FUNDING TO	FUTURE YR OBLIGATIONS	ITEM NO
9311071.02	APPROPRIATE TECHNOLOGY - ATI	6	77	4500	3300	5500	2300	1900	4200	7800	02/83	433	
9311166	REMOTE SENSING RESOURCE ASSESSMENT	6	76	902								156	
9311224	REMOTE SENSING IN AGRICULTURE	6	79	1364		450	914		914		07/81	159	
9335518	UNUSUAL ZONE MANAGEMENT	6	82							420	09/82	442	
9335519	FOREST RESOURCES MANAGEMENT	6	80		1000	100	900		900	1000	09/82	300	141
9335521	REFORESTATION SURVEY	6	82							500	09/82	1500	435
9335535	WATER RESOURCES MAPPING	6	82							450	07/82	750	685
9335544	CATCHMENT PROTECTION AND WATERSHED MGT	6	82							400	09/82	2500	682
	APPROPRIATION			6766	4300	6952	4114	1900	6014	10555		7730	
	GRANT			6766	4300	6952	4114	1900	6014	10555		7730	
	LOAN												

SELECTED DEVELOPMENT ACTIVITIES

9311071.01	APPROPRIATE TECHNOLOGY - ATI	6	77	2407			2407	2200	3300	1307	02/83	1625	437
9311113	ENVIRONMENTAL TRAINING AND GRANTS - II	6	77	102	500	202	400		400		09/83	500	155
9311208	ENVIRONMENTAL NATL RESEARCH EXP INFO BASE	6	79	1290		600	690	300	600	390	10/82	450	157
9311223	FRANCHISING S AND T CAPABILITIES OF LBOS	6	77	1718	200	1250	668		668		09/81		158
9335517	ENVIRONMENTAL PLANNING AND MANAGEMENT	6	81					300	200	100	09/82	1070	160
9335519	FOREST RESOURCES MANAGEMENT	6	80					500	50	450	09/82		162
9335524	ENHANCING SCIENCE AND TECH CAPABILITIES	6	81					1200	600	600	03/83	1400	164
9335530	APPROPRIATE AND PROD TECH SUPPORT	6	81					300	150	150	04/83	1300	446
9335532	TECHNOLOGY CHOICE	6	82								01/83	750	448
9335534	NATURAL RESOURCES MANAGEMENT TRAINING	6	82								09/82	1100	680
9335537	CAPABILITY ANALYSIS SESSIONS	6	82							400	07/82	2100	684

FUNCTIONAL ACCOUNT	TOTAL GRANT	TOTAL GRANT	9004	8279	5700	11982	2997	16600	16110
APPROPRIATION	5517	5517	2052	4165	4800	5768	2997	6045	8300
GRANT	5517	5517	2052	4165	4800	5768	2997	6045	8300
LOAN									
TOTAL	5517	5517	2052	4165	4800	5768	2997	6045	8300

COUNTRY ACTIVITY REPORT
BY GEOGRAPHIC AREA

NEAR EAST

COUNTRY: EGYPT

PROJECT	FY 1980				FY 1981				FY 1982				
	SIA	AMT (\$000)	STAF #OF	IDYS PTP	SIA	AMT (\$000)	STAF #OF	IDYS PTP	SIA	AMT (\$000)	STAF #OF	IDYS PTP	
ENVIRONMENTAL MALL RE-EXP INFO BASE 931-1209.									B	50	0	2	0
COASTAL RESOURCE MANAGEMENT 936-5518.									B	20	0	3	0
ENHANCING S & I CAPABIL. II 936-5524.									B	0	0	10	0
SEMI-TECHNOLOGY CHOICE FOR SMALL ENTERPRISE 936-5532.									B	100	0	5	0

COUNTRY: JORDAN

PROJECT	FY 1980				FY 1981				FY 1982				
	SIA	AMT (\$000)	STAF #OF	IDYS PTP	SIA	AMT (\$000)	STAF #OF	IDYS PTP	SIA	AMT (\$000)	STAF #OF	IDYS PTP	
ENHANCING S & I CAPABIL. II 936-5524.									B	0	0	10	0

COUNTRY: YEMEN ARAB REPUBLIC

PROJECT	FY 1980				FY 1981				FY 1982				
	SIA	AMT (\$000)	STAF #OF	IDYS PTP	SIA	AMT (\$000)	STAF #OF	IDYS PTP	SIA	AMT (\$000)	STAF #OF	IDYS PTP	
NEED: APPROX + PRODUCTIVE TECHNOLOGY SUPPLY 936-5530.									B	30	0	5	0

A - ACTIVE B - PENDING AND SIMON APPROVAL

COUNTRY ACTIVITY REPORT
BY GEOGRAPHIC AREA

SOUTH ASIA

COUNTRY: NEPAL

PROJECT TITLE	FY 1980				FY 1981				FY 1982			
	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP
ENVIRONMENT NATL RES EXP INFO BASE	B	0	0	0	B	2	0	2	B	30	0	3
ENHANCING SKL CAPABILITIES OF LDCS	B	0	0	0	B	2	0	2	B	30	0	3
NATURAL RESOURCES MANAGEMENT TRAINING	B	0	0	2	B	2	0	2	B	30	0	3
936-5534												

COUNTRY: SRI LANKA

PROJECT TITLE	FY 1980				FY 1981				FY 1982			
	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP
ENVIRONMENTAL TRAINING AND GRANTS - II	B	25	0	4	B	0	0	10	B	0	0	10
931-1113												
REMOTE SENSING RESOURCE ASSESSMENT	A	0	0	1	A	0	0	1	A	0	0	1
931-1166												
ENHANCING SKL CAPABILITIES OF LDCS	B	28	0	15	B	0	0	15	B	0	0	15
931-1223												
ENHANCING S & T CAPABIL. II	B	0	0	1	B	0	0	1	B	0	0	1
936-5524												
NATURAL RESOURCES MANAGEMENT TRAINING	B	30	0	3	B	30	0	3	B	30	0	3
936-5534												

COUNTRY: INDIA

PROJECT TITLE	FY 1980				FY 1981				FY 1982			
	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP
ENHANCING SKL CAPABILITIES OF LDCS	B	40	0	15	B	0	0	15	B	0	0	15
931-1223												
ENHANCING S & T CAPABIL. II	B	0	0	1	B	0	0	1	B	0	0	1
936-5524												
SEMI APPROP + PRODUCTIVE TECHNOLOGY SUPPORT	B	0	0	1	B	0	0	1	B	0	0	1
936-5530												

A - ACTIVE B - PENDING MISSION APPROVAL

COUNTRY ACTIVITY REPORT
BY GEOGRAPHIC AREA

SOUTH ASIA
NATURAL RESOURCES MANAGEMENT TRAINING
936-9534

B 30 0 3 0

COUNTRY: BANGLADESH

PROJECT TITLE	FY 1980				FY 1981				FY 1982				
	STA	AMT (\$000)	STAF #OF	TDYS PTP	STA	AMT (\$000)	STAF #OF	TDYS PTP	STA	AMT (\$000)	STAF #OF	TDYS PTP	
ENVIRONMENTAL PLANNING & MANAGEMENT 936-5517									B	40	0	5	0

COUNTRY: PAKISTAN

PROJECT TITLE	FY 1980				FY 1981				FY 1982				
	STA	AMT (\$000)	STAF #OF	TDYS PTP	STA	AMT (\$000)	STAF #OF	TDYS PTP	STA	AMT (\$000)	STAF #OF	TDYS PTP	
ENHANCING S & I CAPABILITY 936-5524									B	0	0	10	0

COUNTRY ACTIVITY REPORT
BY GEOGRAPHIC AREA

EAST ASIA

COUNTRY: SINGAPORE

PROJECT	FY 1980				FY 1981				FY 1982				
	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	
ENHANCING S & T CAPABIL. II 936-9524.									B	0	0	10	0

COUNTRY: JAPAN

PROJECT	FY 1980				FY 1981				FY 1982				
	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	
ENHANCING S & T CAPABIL. OF LDOS 931-1223.													

COUNTRY: PHILIPPINES

PROJECT	FY 1980				FY 1981				FY 1982				
	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	
ENHANCING S & T CAPABIL. OF LDOS 931-1223. REMOTE SENSING IN AGRICULTURE													

PROJECT	FY 1980				FY 1981				FY 1982					
	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP		
ENHANCING S & T CAPABIL. II 936-9524. CATCHMENT PROTECTION & WATERSHED MGT. 936-9536.	A	0	0	3	3	0	0	2	2	B	0	0	10	0

COUNTRY: THAILAND

PROJECT	FY 1980				FY 1981				FY 1982				
	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	
ENVIRONMENTAL TRAINING AND GRANTS - II 931-1113.	B	25	0	4	10								

A - ACTIVE B - PENDING MISSION APPROVAL

COUNTRY ACTIVITY REPORT
BY GEOGRAPHIC AREA

EAST ASIA		FY 1980		FY 1981		FY 1982		
PROJECT TITLE	STA IUS	AMT (\$000)	STAF #OF	IDYS PIP	STA IUS	AMT (\$000)	STAF #OF	IDYS PIP
ENVIRONMENT NATL RES EXP INFO BASE								
931-1209	B		5	0	2	0		
ENHANCING S & I CAPABIL. II								
936-5524	B		0	0	10	0		
CALCULATED PROTECTION & MAINTENED AGI								
936-5536	B		20	0	3	0		

COUNTRY: INDONESIA

PROJECT TITLE		FY 1980		FY 1981		FY 1982		
PROJECT TITLE	STA IUS	AMT (\$000)	STAF #OF	IDYS PIP	STA IUS	AMT (\$000)	STAF #OF	IDYS PIP
ENVIRONMENT NATL RES EXP INFO BASE								
931-1209	B		5	0	2	0		
REFOLE SENDING THE AGRICULTURE								
931-1224	A		0	0	4	5		
ENHANCING S & I CAPABIL. II								
936-5524	B		0	0	10	0		
SEU: APPROP + PRODUCTIVE TECHNOLOGY SPRT								
936-5530	B		30	0	5	0		
SEU: TECHNOLOGY CHOICE FOR SMALL ENTERPRISE								
936-5532	B		100	0	5	0		
LAND CAPABILITY ANALYSIS METHODS								
936-5537	B		15	0	2	0		

A - ACTIVE B - PENDING MISSION APPROVAL

COUNTRY ACTIVITY REPORT
BY GEOGRAPHIC AREA

LATIN AMERICA

COUNTRY: GUYANA

PROJECT	FY 1980				FY 1981				FY 1982			
	STA	AMT (\$000)	STAF #OF	IDYS PTP	STA	AMT (\$000)	STAF #OF	IDYS PTP	STA	AMT (\$000)	STAF #OF	IDYS PTP
FINANCING S & T CAPABIL. II 936-5524.												
	B	0	0	10	0							

COUNTRY: BOLIVIA

PROJECT	FY 1980				FY 1981				FY 1982				
	STA	AMT (\$000)	STAF #OF	IDYS PTP	STA	AMT (\$000)	STAF #OF	IDYS PTP	STA	AMT (\$000)	STAF #OF	IDYS PTP	
ENVIRONMENTAL TRAINING AND GRANTS II 931-1113.													
	B	25	0	4	0								
REMOLE SENSING IN AGRICULTURE 931-1224.	A	0	0	3	2	0	0	3	3	0	0	1	0
LAND CAPABILITY ANALYSIS METHODS 936-5537.													
	B	15	0	2	0								

COUNTRY: CHILE

PROJECT	FY 1980				FY 1981				FY 1982			
	STA	AMT (\$000)	STAF #OF	IDYS PTP	STA	AMT (\$000)	STAF #OF	IDYS PTP	STA	AMT (\$000)	STAF #OF	IDYS PTP
ENHANCING SRT CAPABILITIES OF LDGS 931-1223.												
	B	0	0	1	1	0						
ENHANCING S & T CAPABIL. II 936-5524.												
	B	0	0	10	0							

COUNTRY: COLOMBIA

PROJECT	FY 1980				FY 1981				FY 1982			
	STA	AMT (\$000)	STAF #OF	IDYS PTP	STA	AMT (\$000)	STAF #OF	IDYS PTP	STA	AMT (\$000)	STAF #OF	IDYS PTP
ENHANCING S & T CAPABIL. II 936-5524.												
	B	0	0	10	0							

A - ACTIVE B - PENDING MISSION APPROVAL

COUNTRY ACTIVITY REPORT
BY GEOGRAPHIC AREA

LATIN AMERICA

COUNTRY: COSTA RICA

PROJECT

TITLE	FY 1980				FY 1981				FY 1982			
	STA TUS	AMI (\$000)	STAF #OF	IDYS PIP	STA TUS	AMI (\$000)	STAF #OF	IDYS PIP	STA TUS	AMI (\$000)	STAF #OF	IDYS PIP

ENVIRONMENTAL TRAINING AND GRANTS - JI
931-1113

B 10 0 4 10

REMOTE SENSING RESOURCE ASSESSMENT
931-1166

A 0 0 3 0

ENHANCING S&I CAPABILITIES OF LOGS
931-1223

B 33 0 15 0

REMOTE SENSING IN AGRICULTURE
931-1224

A 0 0 3 3

FOREST RESOURCE MANAGEMENT
936-5519

B 0 0 0 0

ENHANCING S & I CAPABIL. JI
936-5524

B 60 1 4 10

SEMI APPROX + PRODUCTIVE TRAINING SPRT
936-5530

B 0 0 10 0

SEMI TRAINING CHOICE FOR SMALL ENTERPRISE
936-5532

B 30 0 5 0

LAND CAPABILITY ANALYSIS METHODS
936-5537

B 100 0 5 0

B 10 0 1 0

COUNTRY: DOMINICAN REPUBLIC

PROJECT

TITLE	FY 1980				FY 1981				FY 1982			
	STA TUS	AMI (\$000)	STAF #OF	IDYS PIP	STA TUS	AMI (\$000)	STAF #OF	IDYS PIP	STA TUS	AMI (\$000)	STAF #OF	IDYS PIP

REMOTE SENSING IN AGRICULTURE
931-1224

A 0 0 3 3

ENHANCING S & I CAPABIL. JI
936-5524

A 0 0 4 1

B 0 0 1 0

COUNTRY: ECUADOR

PROJECT

TITLE	FY 1980				FY 1981				FY 1982			
	STA TUS	AMI (\$000)	STAF #OF	IDYS PIP	STA TUS	AMI (\$000)	STAF #OF	IDYS PIP	STA TUS	AMI (\$000)	STAF #OF	IDYS PIP

ENHANCING S&I CAPABILITIES OF LOGS
931-1223

B 200 0 10 0

A - ACTIVE B - PENDING MISSION APPROVAL

COUNTRY ACTIVITY REPORT
BY GEOGRAPHIC AREA

LATIN AMERICA

SEMIOLE SENSING IN AGRICULTURE

931-1224

A

0 0 3 2

0 0 2 3

B

60 1 4 10

FOREST RESOURCES MANAGEMENT

936-5519

B

0 0 0 0

60 1 4 10

B

30 0 1 5

SEMI APPROP + PRODUCTIVE TECHNOLOGY SURVEY

936-5530

B

0 0 0 0

150 0 4 3

B

30 0 3 0

DEFORRESTATION SURVEY

936-5531

B

0 0 0 0

30 0 3 0

B

0

NATURAL RESOURCES MANAGEMENT TRAINING

936-5534

B

0 0 0 0

0

B

0

COUNTRY: EL SALVADOR

PROJECT

FY 1980

FY 1981

FY 1982

STA

AMT (\$000)

STAF

#OF

#OF

TDS

PIP

STA

AMT (\$000)

STAF

#OF

#OF

TDS

PIP

STA

AMT (\$000)

STAF

#OF

#OF

TDS

PIP

COASTAL RESOURCES MANAGEMENT

936-5518

B

0 0 0 0

10 0 4 5

B

20 0 3 0

FOREST RESOURCES MANAGEMENT

936-5519

B

0 0 0 0

10 0 4 5

B

10 0 4 5

COUNTRY: GUATEMALA

PROJECT

FY 1980

FY 1981

FY 1982

STA

AMT (\$000)

STAF

#OF

#OF

TDS

PIP

STA

AMT (\$000)

STAF

#OF

#OF

TDS

PIP

STA

AMT (\$000)

STAF

#OF

#OF

TDS

PIP

FOREST RESOURCES MANAGEMENT

936-5519

B

100 1 4 10

100 1 4 10

B

100 1 4 10

ENHANCING S & T CAPABIL. II

936-5524

B

0 0 0 0

0 0 0 0

B

0 0 10 0

COUNTRY: HAITI

PROJECT

FY 1980

FY 1981

FY 1982

STA

AMT (\$000)

STAF

#OF

#OF

TDS

PIP

STA

AMT (\$000)

STAF

#OF

#OF

TDS

PIP

STA

AMT (\$000)

STAF

#OF

#OF

TDS

PIP

REPORT SPONSING RESOURCE ASSESSMENT

931-1166

A

0 0 3 0

0 0 3 0

B

30 0 5 0

SEMI APPROP + PRODUCTIVE TECHNOLOGY SURVEY

936-5530

A

0 0 3 0

0 0 3 0

B

30 0 5 0

A - ACTIVE B - PENDING MISSION APPROVAL

COUNTRY ACTIVITY REPORT
BY GEOGRAPHIC AREA

LATIN AMERICA

COUNTRY: PERU

PROJECT	FY 1980				FY 1981				FY 1982			
	SIA IUS	AMT (\$000)	STAF #OF	#OF TDYS	SIA IUS	AMT (\$000)	STAF #OF	#OF TDYS	SIA IUS	AMT (\$000)	STAF #OF	#OF TDYS
ENHANCING S & I CAPABIL. II 936-5524.												
	B	0	0	10	0							

COUNTRY: JAMAICA

PROJECT	FY 1980				FY 1981				FY 1982			
	SIA IUS	AMT (\$000)	STAF #OF	#OF TDYS	SIA IUS	AMT (\$000)	STAF #OF	#OF TDYS	SIA IUS	AMT (\$000)	STAF #OF	#OF TDYS
REMOTE SENSING IN AGRICULTURE 931-1224.	A	0	0	3	3	0	0	5	3	0	0	1

COUNTRY: REG OFFICE GEN AMER & PANAMA-ROCAP

PROJECT	FY 1980				FY 1981				FY 1982			
	SIA IUS	AMT (\$000)	STAF #OF	#OF TDYS	SIA IUS	AMT (\$000)	STAF #OF	#OF TDYS	SIA IUS	AMT (\$000)	STAF #OF	#OF TDYS
ENHANCING S & I CAPABIL. II 936-5524.												
	B	0	0	10	0							

A - ACTIVE B - PENDING MISSION APPROVAL

COUNTRY ACTIVITY REPORT
BY GEOGRAPHIC AREA

AFRICA

COUNTRY: MOROCCO

PROJECT	FY 1980				FY 1981				FY 1982			
	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP
ENHANCING S&T CAPABILITIES OF LACS 931-1223		0	0	2	0	28	0	15	0			
REMOTE SENSING IN AGRICULTURE 931-1224	A	0	0	3	0	0	0	5	5	0	0	1

COUNTRY: MALAWI

PROJECT	FY 1980				FY 1981				FY 1982			
	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP
FOREST RESOURCES MANAGEMENT 936-5519	B	0	0	0	0	10	0	4	5	B	10	0

COUNTRY: FED. OF RHODESIA AND NYASALAND

PROJECT	FY 1980				FY 1981				FY 1982			
	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP
WATER RESOURCES MAPPING 936-5535										B	150	0

COUNTRY: KENYA

PROJECT	FY 1980				FY 1981				FY 1982			
	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP	STA TUS	AMT (\$000)	STAF #OF	IDYS PIP
ENVIRONMENTAL MAPPING EXP. INFO BASE 931-1209	B	5	0	2	0							
ENHANCING S&T CAPABILITIES OF LACS 931-1223		0	0	1	2							
FOREST RESOURCES MAPPING 936-5519	B	0	0	0	0	B	160	2	8	0	B	160

A - ACTIVE B - PENDING MINISTERIAL APPROVAL

COUNTRY ACTIVITY REPORT
BY GEOGRAPHIC AREA

AFRICA
SUBJ: AFPROP + PRODUCTIVE TECHNOLOGY SUPPL
936-5530.

B 30 0 5 0

COUNTRY: UGANDA

PROJECT	FY 1980				FY 1981				FY 1982					
	STA	AMT	STAF	#OF	STA	AMT	STAF	#OF	STA	AMT	STAF	#OF		
TITLE	IUS	(\$000)	TDYS	PIP	IUS	(\$000)	TDYS	PIP	IUS	(\$000)	TDYS	PIP		
FOREST RESOURCES MANAGEMENT	B	0	0	0	B	10	0	4	5	B	10	0	4	5

COUNTRY: ETHIOPIA

PROJECT	FY 1980				FY 1981				FY 1982			
	STA	AMT	STAF	#OF	STA	AMT	STAF	#OF	STA	AMT	STAF	#OF
TITLE	IUS	(\$000)	TDYS	PIP	IUS	(\$000)	TDYS	PIP	IUS	(\$000)	TDYS	PIP
ENVIRONMENTAL NATL RES EXP (RHO) BASE	B	5	0	2	0							

COUNTRY: TANZANIA

PROJECT	FY 1980				FY 1981				FY 1982					
	STA	AMT	STAF	#OF	STA	AMT	STAF	#OF	STA	AMT	STAF	#OF		
TITLE	IUS	(\$000)	TDYS	PIP	IUS	(\$000)	TDYS	PIP	IUS	(\$000)	TDYS	PIP		
FOREST RESOURCES MANAGEMENT	B	0	0	0	B	10	0	4	5	B	10	0	4	5
936-5519. ENHANCING S & J CAPABIL. II					B					B	0	0	10	0
936-5524. LAND CAPABILITY ANALYSIS METHODS					B					B	15	0	2	0

COUNTRY: CAMBODIA

PROJECT	FY 1980				FY 1981				FY 1982					
	STA	AMT	STAF	#OF	STA	AMT	STAF	#OF	STA	AMT	STAF	#OF		
TITLE	IUS	(\$000)	TDYS	PIP	IUS	(\$000)	TDYS	PIP	IUS	(\$000)	TDYS	PIP		
FOREST RESOURCES MANAGEMENT	B	0	0	0	B	60	1	4	10	B	60	1	4	10

936-5519. A - ACIVE B - PENDING DECESSION APPROVAL

COUNTRY ACTIVITY REPORT
BY GEOGRAPHIC AREA

AFRICA
ENHANCING S & T CAPABIL. II
936-5524

B 0 0 10 0

COUNTRY: SIERRA LEONE

PROJECT	FY 1980				FY 1981				FY 1982			
	SIA	AMT	STAF	#OF	SIA	AMT	STAF	#OF	SIA	AMT	STAF	#OF
TITLE	TUS	(\$000)	IDYS	PTP	TUS	(\$000)	IDYS	PTP	TUS	(\$000)	IDYS	PTP
REMOTE SENSING IN AGRICULTURE	A	0	0	3	0							

COUNTRY: GUIANA

PROJECT	FY 1980				FY 1981				FY 1982				
	SIA	AMT	STAF	#OF	SIA	AMT	STAF	#OF	SIA	AMT	STAF	#OF	
TITLE	TUS	(\$000)	IDYS	PTP	TUS	(\$000)	IDYS	PTP	TUS	(\$000)	IDYS	PTP	
ENVIRONMENT NAIL RES EXP INFO BASE	B	5	0	2	0								
ENHANCING SAT CAPABILITIES OF LOGS													
931-1209.													
931-1223.													
ENHANCING S & T CAPABIL. II					B	25	0	15	0				
936-5524.									B	0	0	10	0

COUNTRY: SWAZILAND

PROJECT	FY 1980				FY 1981				FY 1982			
	SIA	AMT	STAF	#OF	SIA	AMT	STAF	#OF	SIA	AMT	STAF	#OF
TITLE	TUS	(\$000)	IDYS	PTP	TUS	(\$000)	IDYS	PTP	TUS	(\$000)	IDYS	PTP
REMOTE SENSING RESOURCE ASSESSMENT	A	0	0	2	0							
ENVIRONMENTAL PLANNING & MANAGEMENT												
931-1166.												
936-5517.												
FOREST RESOURCES MANAGEMENT	B	0	0	0	0				B	0	0	4
936-5519.												

A - ACTIVE B - PENDING MISSION APPROVAL

COUNTRY ACTIVITY REPORT
BY GEOGRAPHIC AREA

AFRICA

COUNTRY: SUDAN

PROJECT	TITLE	FY 1980				FY 1981				FY 1982				
		SIA TUS	AMT (\$000)	STAF #OF	#OF TDYS	SIA TUS	AMT (\$000)	STAF #OF	#OF TDYS	SIA TUS	AMT (\$000)	STAF #OF	#OF TDYS	
	FINANCING: S & I CAPABIL. II													
		H	0	0	0	0	0	1	4	H	0	0	10	0
936-5524.														

COUNTRY: LIBERIA

PROJECT	TITLE	FY 1980				FY 1981				FY 1982			
		SIA TUS	AMT (\$000)	STAF #OF	#OF TDYS	SIA TUS	AMT (\$000)	STAF #OF	#OF TDYS	SIA TUS	AMT (\$000)	STAF #OF	#OF TDYS
	REMOTE SENSING IN AGRICULTURE	A	0	0	1	1							
931-1224.													

COUNTRY: LIBERIA

PROJECT	TITLE	FY 1980				FY 1981				FY 1982			
		SIA TUS	AMT (\$000)	STAF #OF	#OF TDYS	SIA TUS	AMT (\$000)	STAF #OF	#OF TDYS	SIA TUS	AMT (\$000)	STAF #OF	#OF TDYS
	FINANCING: S&I CAPABILITIES OF LIXES												
	931-1223.		0	0	1	2							
	REMOTE SENSING IN AGRICULTURE	A	0	0	3	0							
931-1224.													

COUNTRY: GUINEA

PROJECT	TITLE	FY 1980				FY 1981				FY 1982				
		SIA TUS	AMT (\$000)	STAF #OF	#OF TDYS	SIA TUS	AMT (\$000)	STAF #OF	#OF TDYS	SIA TUS	AMT (\$000)	STAF #OF	#OF TDYS	
	FOREST RESOURCES MANAGEMENT	H	0	0	0	0	0	1	4	H	0	0	1	4
936-5519.														

A - ACTIVE B - PENDING MISSION APPROVAL

COUNTRY ACTIVITY REPORT
BY GEOGRAPHIC AREA

AFRICA

COUNTRY: CHAD

PROJECT	FY 1980						FY 1981						FY 1982						
	SIA	AMI	STAF	#OF	#OF	#OF	SIA	AMI	STAF	#OF	#OF	#OF	SIA	AMI	STAF	#OF	#OF	#OF	
TITLE	IUS	(\$000)		TDYS	PIP		IUS	(\$000)		TDYS	PIP		IUS	(\$000)		TDYS	PIP		
FOREST RESOURCES MANAGEMENT	B	0	0	0	0	0	B	0	0	2	5	0	B	0	0	2	5	0	
936-5519																			

COUNTRY: MAURITANIA

PROJECT	FY 1980						FY 1981						FY 1982						
	SIA	AMI	STAF	#OF	#OF	#OF	SIA	AMI	STAF	#OF	#OF	#OF	SIA	AMI	STAF	#OF	#OF	#OF	
TITLE	IUS	(\$000)		TDYS	PIP		IUS	(\$000)		TDYS	PIP		IUS	(\$000)		TDYS	PIP		
ENHANCING S&I CAPABILITIES OF LDCS	B	27	0	15	0	0	B	0	0	1	5	0	B	0	0	10	0	0	
931-1223																			
FOREST RESOURCES MANAGEMENT	B	0	0	0	0	0	B	0	0	1	5	0	B	0	0	10	0	0	
936-5519																			
ENHANCING S & I CAPABIL. II	B	0	0	0	0	0	B	0	0	1	5	0	B	0	0	10	0	0	
936-5524																			
SEBU: APPROP + PRODUCTIVE ICHNOGY SPRI	B	30	0	5	0	0	B	30	0	5	0	0	B	30	0	5	0	0	
936-5530																			

COUNTRY: NIGER

PROJECT	FY 1980						FY 1981						FY 1982						
	SIA	AMI	STAF	#OF	#OF	#OF	SIA	AMI	STAF	#OF	#OF	#OF	SIA	AMI	STAF	#OF	#OF	#OF	
TITLE	IUS	(\$000)		TDYS	PIP		IUS	(\$000)		TDYS	PIP		IUS	(\$000)		TDYS	PIP		
FOREST RESOURCES MANAGEMENT	B	0	0	0	0	0	B	0	0	1	5	0	B	0	0	2	5	0	
936-5519																			

COUNTRY: SENEGAL

PROJECT	FY 1980						FY 1981						FY 1982						
	SIA	AMI	STAF	#OF	#OF	#OF	SIA	AMI	STAF	#OF	#OF	#OF	SIA	AMI	STAF	#OF	#OF	#OF	
TITLE	IUS	(\$000)		TDYS	PIP		IUS	(\$000)		TDYS	PIP		IUS	(\$000)		TDYS	PIP		
REMOTE SENSING RESOURCE ASSESSMENT	A	0	0	2	8	0	A	0	0	2	8	0	A	0	0	2	8	0	
931-1166																			

A - ACTIVE R - PENDING MISSION APPROVAL

COUNTRY ACTIVITY REPORT
BY GEOGRAPHIC AREA

AFRICA

ENVIRONMENTAL MAILING EXP. 1980 BUREAU

936-1209.

FOREST RESOURCES MANAGEMENT

936-5519.

B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	60	1	4	10	60	1	4	10	60	1	4	10	60	1	4	10	60	1	4	10
B	60	1	4	10	60	1	4	10	60	1	4	10	60	1	4	10	60	1	4	10

COUNTRY: UPPER VOLTA

PROJECT

	FY 1980				FY 1981				FY 1982					
TITLE	STA	AMT (\$000)	STAF #OF	TDYS PTP	STA	AMT (\$000)	STAF #OF	TDYS PTP	STA	AMT (\$000)	STAF #OF	TDYS PTP		
FOREST RESOURCES MANAGEMENT	B	0	0	0	0	0	0	2	5	B	30	0	5	0
936-5519.														
936-5530.														

COUNTRY: MALI

PROJECT

	FY 1980				FY 1981				FY 1982					
TITLE	STA	AMT (\$000)	STAF #OF	TDYS PTP	STA	AMT (\$000)	STAF #OF	TDYS PTP	STA	AMT (\$000)	STAF #OF	TDYS PTP		
ENVIRONMENTAL PLANNING & MANAGEMENT	B	0	0	0	0	0	0	2	5	B	40	0	5	0
936-5517.														
FOREST RESOURCES MANAGEMENT	B	0	0	0	0	0	0	2	5	B	0	0	2	5
936-5519.														
ENHANCING S & J CAPABIL. II	B	0	0	0	0	0	0	2	5	B	0	0	2	5
936-5524.														
LAND CAPABILITY ANALYSIS M. THODS	B	0	0	0	0	0	0	10	0	B	15	0	2	0
936-5537.														

COUNTRY: MISC. FRENCH AFRICA

PROJECT

	FY 1980				FY 1981				FY 1982					
TITLE	STA	AMT (\$000)	STAF #OF	TDYS PTP	STA	AMT (\$000)	STAF #OF	TDYS PTP	STA	AMT (\$000)	STAF #OF	TDYS PTP		
FOREST RESOURCES MANAGEMENT	B	0	0	0	0	0	0	2	5	B	0	0	2	5
936-5519.														

A - ACTIVE B - PENDING MISSION APPROVAL

COUNTRY ACTIVITY REPORT
BY GEOGRAPHIC AREA

AFRICA

COUNTRY: IORU

PROJECT	TITLE	FY 1980				FY 1981				FY 1982					
		STA	AMT (\$000)	STAF #OF	TDYS PTP	STA	AMT (\$000)	STAF #OF	TDYS PTP	STA	AMT (\$000)	STAF #OF	TDYS PTP		
936-5519	COASTAL RESOURCES MANAGEMENT	B	0	0	0	B	0	0	1	4	B	20	0	3	0
936-5519	FOREST RESOURCES MANAGEMENT	B	0	0	0	B	0	0	1	4	B	0	0	1	4

COUNTRY: BURUNDI

PROJECT	TITLE	FY 1980				FY 1981				FY 1982					
		STA	AMT (\$000)	STAF #OF	TDYS PTP	STA	AMT (\$000)	STAF #OF	TDYS PTP	STA	AMT (\$000)	STAF #OF	TDYS PTP		
936-5519	FOREST RESOURCES MANAGEMENT	H	0	0	0	B	60	1	4	10	B	60	1	4	10

COUNTRY: RWANDA

PROJECT	TITLE	FY 1980				FY 1981				FY 1982					
		STA	AMT (\$000)	STAF #OF	TDYS PTP	STA	AMT (\$000)	STAF #OF	TDYS PTP	STA	AMT (\$000)	STAF #OF	TDYS PTP		
936-5519	FOREST RESOURCES MANAGEMENT	B	0	0	0	B	10	0	4	5	B	10	0	4	5

A - ACTIVE H - PENDING MISSION APPROVAL