

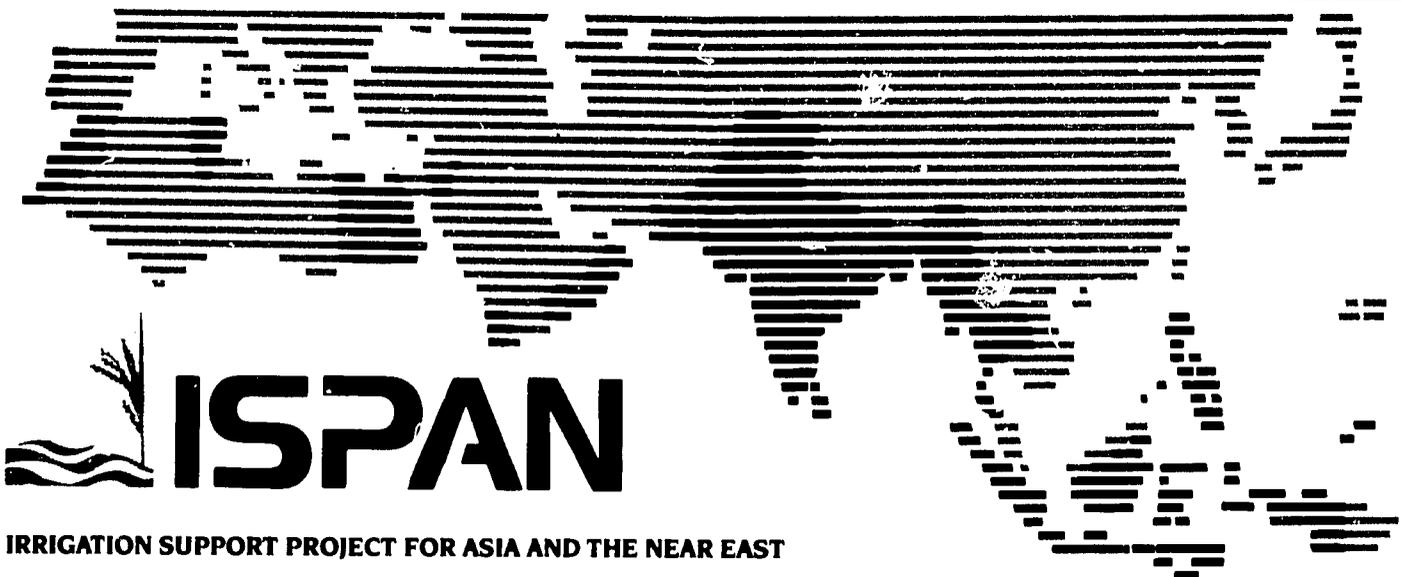
PD-ABD-672

ISPAN Annual Plan

FY89

ISPAN ACTIVITY NO. **132A**

ISPAN REPORT NO. **4**



IRRIGATION SUPPORT PROJECT FOR ASIA AND THE NEAR EAST

Sponsored by the U.S. Agency for International Development



**IRRIGATION SUPPORT PROJECT FOR ASIA
AND THE NEAR EAST**

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INTEGRATED IRRIGATION MANAGEMENT RESOURCES

Camp Dresser & McKee International Inc. (Prime Contractor)

CARE

Cornell University

Development Alternatives, Inc.

Harza Engineering Company

International Science and Technology Institute, Inc.

Training Resources Group

The University of Arizona



ISpan

IRRIGATION SUPPORT PROJECT FOR ASIA AND THE NEAR EAST

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August 31, 1988

Dr. N. S. Peabody, III
ANE/TR/ARD
USAID
Washington, DC

Dear Dr. Peabody:

We are pleased to submit the FY 1989 Annual Plan for the ISPan Project (398-0289) as per the terms of our contract (ANE-0289-C-00-7044-00) effective August 14, 1987.

We appreciate your guidance in the preparation of this document and look forward to working with you over the next year as the various plan components and activities are implemented or, when necessary, modified in line with the concept of a "rolling plan".

Sincerely,

Fred W. Besley
ISPan Project Director

FWB:dad

cc: Judith Johnson
SER/OP/OS/LAC

INTEGRATED
Irrigation
Management
RESOURCES

Camp Dresser & McKee International Inc. • CARE • Cornell University • Development Alternatives, Inc. • Harza Engineering Company • International Science & Technology Institute, Inc. • Training Resources Group • The University of Arizona

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PD-ABD-672
ISN 75381

ISPAN ANNUAL PLAN

FY-89

14 August 1988

**Prepared for the Office of Technical Resources
Agriculture and Rural Development Division
Bureau for Asia and Near East
U.S. Agency for International Development**

**Irrigation Support Project for Asia and the Near East
Contract No. ANE-0289-C-00-7044-00, Project No. 3-7631510
is sponsored by Asia and Near East Bureau
U.S. Agency for International Development
Washington, DC 20523**

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ISPAN ANNUAL PLAN (FY-89)

INTRODUCTION

This second annual workplan for ISPAN is the first to be prepared on the basis of actual operational experience. The principal activities during this first project year have included mobilizing project resources, establishing the Technical Support Center (TSC) and developing a response capability, opening a dialogue with Mission and Bureau staff, designing the regional institution and applied study programs, designing ISPAN information systems, and successfully completing several core funded and Mission buy-in technical assistance activities.

This second annual workplan covering fiscal year 1989 is designed to move ISPAN to the cutting edge of irrigation development in the Asia and Near East region, and to enable ISPAN to provide forward thinking and direction to the Missions and the Bureau as they approach the decade of the 1990s.

Summary of ISPAN's First Year

The ISPAN Project was initiated on 14 August 1987, and mobilization of the TSC staff began in early September. Amid the flurry of operational and administrative activities required to establish the TSC, a cable was sent to all Missions announcing the start-up of ISPAN and requesting them to indicate their needs for ISPAN assistance. In September the Deputy Project Director attended the 13th Congress of the International Commission on Irrigation and Drainage (ICID) held in Morocco to meet with staff of four Missions, representatives of international agencies, and representatives of irrigation departments and governments in the ANE Region. Between November 1987 and May 1988, ISPAN (principally TSC staff) visited 12 of the ANE Missions to explain ISPAN operations and capabilities, and to discuss and develop specific technical activities.

During the year ISPAN completed five activities: evaluation of the Irrigation System Management (ISM) Project in Pakistan; review of the Hill Area Land and Water Development (HPLWD) project in India; preparation of a project identification document (PID) for an improved water management technology project in Tunisia; held a international workshop on training strategies jointly planned with the Economic Development Institute (EDI) of the World Bank; held a project review and start-up workshop for the Small Scale Irrigation Management Project (SSIMP) in Indonesia; and carried out the engineering, social, economic, and environmental analysis required for the design of a supplemental irrigation and small dams project in Morocco.

Eight activities are ongoing including: project mid-term evaluations in Pakistan (the Command Water Management (CWM) project) and India (the Irrigation Management and Training (IM&T) project); technical assistance to the Madhya Pradesh (India) Irrigation Department; long term field technical assistance to the USAID-New Delhi Office of Irrigation and Water Resources (IWR) in the area of water resources technology and research; and development of a project management and monitoring system for the multi-component Irrigation Management System (IMS) Project in Egypt. There have been six buy-ins totaling about \$589,000 (Table 1), and buy-ins worth over \$750,000 are in process. Twenty activities are in various stages of active development as of 1 July.

ISPAN planned and held two important workshops during the past year. The ISPAN start-up workshop in October provided initial direction for the ISPAN program,

Table 1
FY-88 ISPAN BUY-IN ACTIVITY
(US\$ 1000)

<u>COUNTRY</u>	<u>ACTIVITY</u>	<u>AMOUNT</u>
Indonesia	Project Review Workshop	\$ 19
India	Review of the Hill Areas	\$ 35
	Land & Water Development Project	
	Evaluation of the IM&T Project	\$ 48
	Water Management Technology and Research Specialist	\$155
Morocco	PP Design- Supplemental Irrigation Project	\$ 76
Pakistan	Evaluation of ISM Project	\$142
	Evaluation of CWM Project	\$114
	Total	----- \$589

particularly in such areas as regional institutions, applied studies, and information services. These program areas were further developed through discussions between ISPAN staff and Bureau and Mission personnel, and were presented for review and discussion at the Regional Irrigation Management Workshop sponsored by ISPAN in Kathmandu in April, 1988. Senior irrigation sector staff (both US direct hire and foreign service national) from 10 Missions, government counterparts, representatives of short-listed regional institutions, and the International Irrigation Management Institute (IIMI) attended this intensive and highly successful workshop. In addition to a field trip, sessions were held on institutional strengthening, cost recovery, exchange of information and lessons learned from individual Mission experience, current ISPAN operations, and preliminary ISPAN plans for 1989.

Plan Preparation

The Regional Irrigation Management Workshop provided considerable feedback on the future direction for ISPAN and is reflected in this annual plan. A plan was formulated and presented at the second ISPAN annual planning workshop in June 1988. Representatives of the TSC, each consortium member, the ISPAN SAGE group, and USAID attended. Workshop participants reviewed the direction and content of the plan components and activities, and developed specific priorities by considering several funding scenarios.

THE FY-89 PLAN OF ACTIVITIES

The goal of the ISPAN project is to increase agricultural production, real farm incomes and distributional equity within the ANE region by helping Missions improve the efficiency, reliability, and equity of irrigation water delivery and use in the region's irrigation systems.

The ISPAN project purpose is to assist Missions to improve the quality and performance of their present and future irrigation portfolios. This assistance encompasses improving the capabilities of regional supporting institutions, developing innovative solutions to the complex management problems found in many of the region's existing irrigation systems, and facilitating the synthesis and dissemination of experience and lessons learned across the region.

Objectives

The operational objectives of the first year of the project (FY 88) were: (1) to respond effectively to initial requests for assistance from the Missions; (2), to establish the TSC with a capability to respond quickly, and to effectively manage diverse technical services; and (3), to establish effective communications and dialogue with the Missions concerning their needs, and the current and future issues in their respective irrigation sectors.

The activities and initiatives in the second year of the project will expand on the solid foundation established in the first year. The TSC will focus on ISPAN's overall objectives by providing responsive and effective technical assistance, reflecting on regional experience, identifying emerging problems, and preparing appropriate policy and technological response. Beginning in FY 89, ISPAN will be more proactive, focusing on regional issues and synthesizing lessons learned, and looking ahead to the decade of the 1990s.

Strategy

The strategy to place ISPAN on the cutting edge of irrigation development in the ANE region in the 1990s has four essential elements:

1. Complete a series of regionally focused papers and studies synthesizing lessons learned and developing new concepts and approaches in strategically important areas such as investment strategy, cost recovery, devolution of authority, improved irrigation system performance, more effective and systematic training strategies, and institutional strengthening; disseminate the results to the Missions of the ANE region and their Government counterparts; and identify follow-up steps.

2. Establish a core funded applied studies program focused on decisive factors affecting irrigation sector performance; in particular, new approaches to improving public and private sector management performance, and physical system performance.

3. Establish a productive network to exchange information and experience among professionals and researchers at selected regional institutions by initiating a series of technical workshops. These workshops would be rotated among the countries of participating ISPAN regional institutions.

4. Continue and improve the ISPAN quarterly newsletter; strengthen and expand regional newsletters through the regional institutions; and identify new regional

networks to exchange experience and lessons learned needed to address the issues of the 1990s.

Role of the TSC

The ISPAN (TSC) is the most important factor distinguishing ISPAN from other centrally funded regional or global projects. The TSC provides quick response, short duration technical assistance to the ANE Missions by drawing on a wide range of technical capabilities and resources, and by developing ties with institutions in the region and specialized international organizations. The TSC provides the regional perspective sought by the Missions, and the unique ISPAN project outputs including the assessment and sharing of information about lessons learned, collaboration with international organizations, information support networks, and the pooling of resources to promote inter-mission synergy.

In the first project year, TSC staff focused on establishing operational procedures and dialogue with Missions, fielding effective technical assistance teams, and formulating programs. These activities are helping to develop the regional overview and sustained dialogue with Mission and Bureau staff, and counterpart agencies, required for effective multidisciplinary support.

Under the FY 89 Plan the TSC will take an active role in preparing papers and carrying out studies of regional issues, and in the regional institution and applied studies programs.

Plan Components and Priorities

The plan components and major activities are summarized in Table 2. A plan component is a group of related activities which share a theme or thrust. The individual activities shown in Table 2 within each component are described in more detail in Part II of this report (see tabs). For convenience the plan components are listed in two groups: Technical Support Center Activities, and Mission and Regional Activities.

TSC Activities. The three components in this group are: Activity Development; Program Planning and Management; and Administration.

Activity Development encompasses the numerous tasks required for the preparation and processing of activity implementation plans (AIPs). These tasks include communicating with Missions (including field visits), drafting scopes of work, recruiting staff, making arrangements to field teams of consultants, preparing budgets and contract documents, and processing contract amendments.

The Program Planning and Management component includes the review and updating of the rolling annual plan, continued development and maintenance of the ISPAN computer system, data bases, and management information system, the development of ISPAN information resources, and project reporting.

The Administrative component includes project management, financial control, and support services that are necessary and critical for the success of a project as complex as ISPAN (multiple activities, multiple funding sources and types, etc).

Mission and Regional Activities. This group consists of five components: Mission Focused Activities; Regionally Focused Activities; Applied Studies; Technology Transfer; and Regional Institutions. These components are shown in Table 2 and discussed below in order of their priority.

Table 2

ISPAN CORE FUNDED ACTIVITIES FOR FY89

<u>PROGRAM COMPONENTS AND ACTIVITIES</u>	<u>PRIORITY</u>
TECHNICAL SUPPORT CENTER (TSC) ACTIVITIES	
A. GENERAL ACTIVITY DEVELOPMENT	
1. Activity Development	
B. PROGRAM PLANNING AND MANAGEMENT	
1. Program Review and Technical Meetings	
2. Computer System Development	
3. Management Information System	
4. Quarterly/Annual Progress Reports	
5. Information/Documentation Resources	
6. Annual Planning and Workshop	
C. ADMINISTRATION	
1. Project Management and Financial Control	
2. TSC Support Services	
3. Direct Costs	
MISSION AND REGIONAL ACTIVITIES	
D. MISSION FOCUSED ACTIVITIES	
1. Special Mission Activities	1
2. Energy Related Activities	14
E. REGIONALLY FOCUSED ACTIVITIES	
1. ARD Irrigation Sector Strategy for the 1990s	2
2. Improved Training Strategies-Phase II	3
3. Review Assistance to the Bureau	6
4. Assessment of Irrigation Training Resources	11
F. APPLIED STUDIES	
1. Papers Synthesizing Lessons Learned	4
2. Field Studies	5
G. TECHNOLOGY TRANSFER	
1. Regional Irrigation Management Workshop	7
2. ISPAN Newsletter	9
3. New Regional Networks	10
H. REGIONAL INSTITUTIONS	
1. Regional Institution Workshop	8
2. Regional Newsletter	12
3. Site Visits	13

The first component, Mission Focused Activities, consists of core funded technical activities undertaken to develop an activity, for example, by carrying out field studies to define problems and develop a scope of work, or by timely implementation the first stage of an activity that will later be fully funded by the Mission. They are usually undertaken and funded at the specific request of the Mission. This component also includes country focused activities concerned with the assessment of tradeoffs and interdependencies between the irrigation and energy sectors. Core funds generally are not used for these energy/irrigation activities since they are funded by the S&T bureau or a Mission buy-in.

The remaining four components have a generally broader focus and perspective. Activities in the Regionally Focused Activities component address major issues affecting several Missions including for example the effectiveness of training programs, and guidelines for irrigation investment strategy in the 1990s.

The Applied Studies component consists of activities resulting in a series of papers synthesizing lessons learned from recent AID experiences, concepts and analytical papers dealing with such access as cost recovery and the devolution of authority, and papers developing new concepts and approaches. A second group of activities consists of applied field studies and action research focusing on improved irrigation system performance, particularly institutional performance.

The Technology Transfer component consists of several activities aimed at enhancing and facilitating the effective exchange of information and experience among AID Mission staff, and more broadly, among professionals in the ANE irrigation sector. Activities will include a continuation of the highly successful regional irrigation management workshop, the ISPAN newsletter, and the development of new regional networks in areas such as cost recovery, devolution of authority, institutional strengthening, and training.

A major thrust of the ISPAN project is to build additional capacity within selected institutions in the region in areas of training, technology transfer, and research through direct support and joint activities that involve the staff of the selected institutions in ISPAN activities. The Regional Institution component of ISPAN's FY89 plan includes a major activity to develop a network among regional researchers through a new and unique workshop format, developing a newsletter through one of the regional institutions with a focus on experience in the region, and additional site visits to identify a regional institution in South Asia.

Priorities for ISPAN Activities. Priority has been assigned to each activity as shown in Table 2. An activity's priority is assigned with respect to the overall plan. The highest priority is given to those activities in the TSC group which ensure that ISPAN remains a responsive and well managed project.

Among the activities in the Mission and Regional group the highest priority is given to:

- Mission activities (D.1)
- Regional analysis and concept papers (E.1 and E.2), and review assistance to the bureau (E.3)
- Synthesis papers (F.1), and Applied Studies (F.2)
- Exchange of experience and information (G.1 and H.1)

Plan Funding

The plan components and activities shown in Table 2 are funded from core obligations. However, a major part of ISPAN activity is funded through buy-ins. Estimated overall ISPAN fund allocations for FY89 are summarized in Figure 1. The estimated buy-in activity during FY89 is shown in Table 3.

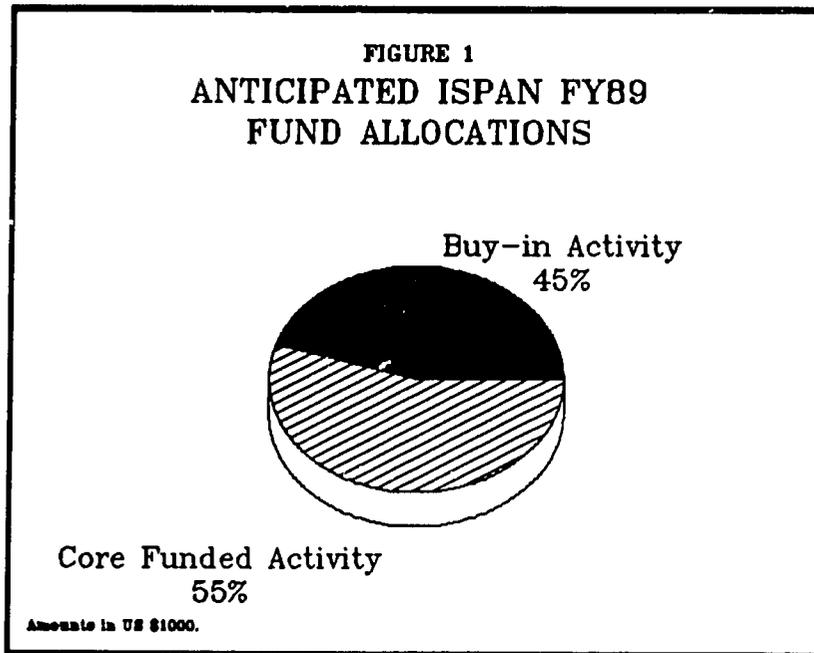


Table 3
ANTICIPATED FY89 ISPAN BUY-IN ACTIVITY
(US \$1000)

<u>COUNTRY</u>	<u>ACTIVITY</u>	<u>AMOUNT</u>
Tunisia	PP Design	\$ 60
Egypt	IMS Project Support	345
	Evaluation of Preventive Maint. Project	100
India	Maharashtra Professional Exchange	50
Sri Lanka	Irrigation Policy Technical Support	150
Nepal	Interim Evaluation of ISM Project	50
Indonesia	Interim Evaluation of SSIMP	50
	Special Studies under SSIMP	200
Thailand	NESSI Applied Study	80
Philippines	Applied Studies under AAP	100
	Total	\$1,185

Core Obligations The allocation of core funds among the eight plan components is summarized in Figure 2. The funding level shown, \$1,470,000, is based on the requirements given in the Project Paper. About 45 percent of core funding is allocated to Mission, Bureau, and regionally focused technical activities.

Allocation of Core Funding The allocation of core funds to the various activities planned under each component is summarized in Table 4. Three costs are shown for each activity:

- TSC professional staff;
- TSC administrative and support staff; and
- Other costs which include consultants, consortium staff, and direct costs including equipment and travel.

Figure 3 through Figure 10 summarize graphically the allocation of core funds to plan components and activities.

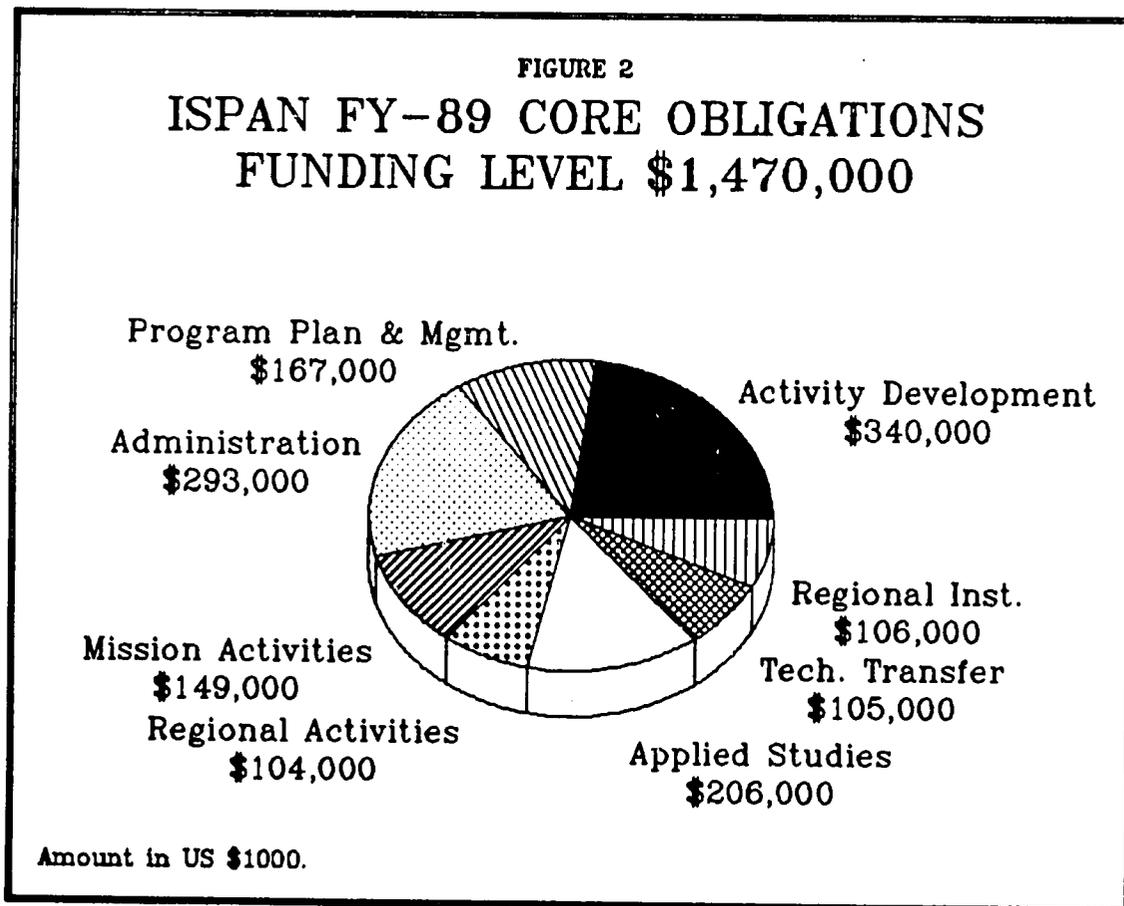
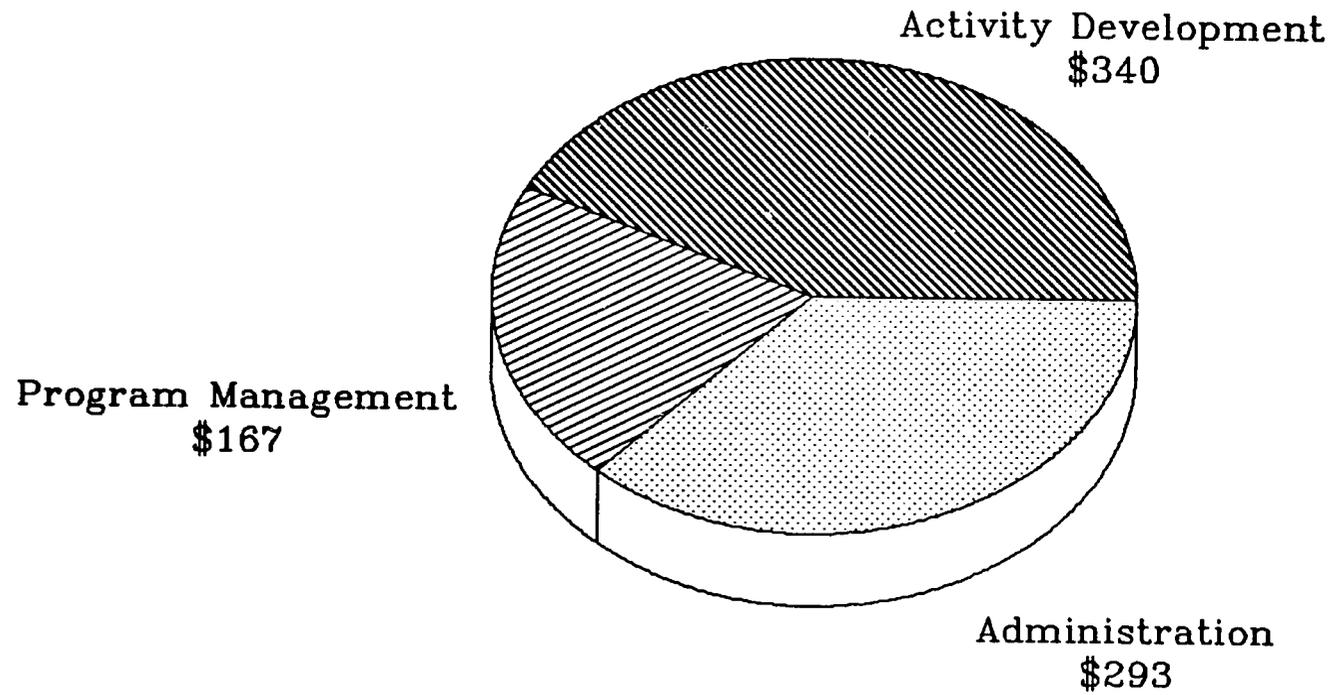


TABLE 4

ISPAN FY-89 CORE OBLIGATIONS
 Funding Level \$1,470,000
 (US\$1000)

	COMPONENT ALLOCATION	ACTIVITY ALLOCATION			ACT TOTAL
		TSC TOTAL			
		PROF	SUP	OTHER	
TECHNICAL SUPPORT CENTER (TSC) ACTIVITIES	\$800				
A. GENERAL ACTIVITY DEVELOPMENT	\$340				
1. Activity Development		\$220	\$87	\$34	\$340
B. PROGRAM PLANNING AND MANAGEMENT	\$167				
1. Program Review and Technical Meetings		\$21	\$3	\$3	\$27
2. Computer System Development		\$2	\$28	\$10	\$40
3. Management Information System		\$5	\$23	\$10	\$38
4. Quarterly/Annual Progress Reports		\$10	\$5		\$15
5. Information/Documentation Resources		\$4	\$12		\$16
6. Annual Planning Workshop		\$24	\$4	\$3	\$31
C. ADMINISTRATION	\$293				
1. Project Management and Financial Control		\$41	\$77		\$118
2. TSC Support Services			\$38		\$38
3. Direct Costs				\$137	\$137
MISSION AND REGIONAL ACTIVITIES	\$670				
D. MISSION FOCUSED ACTIVITIES	\$149				
1. Special Mission Activities		\$12	\$2	\$34	\$48
2. Energy Related Activities		\$11	\$3	\$87	\$100
E. REGIONALLY FOCUSED ACTIVITIES	\$104				
1. Improved Training Strategies-Phase II		\$10	\$3	\$15	\$28
2. ARD Irrigation Sector Strategy for the 1990's		\$6	\$2	\$30	\$38
3. Review Assistance to the Bureau		\$8	\$1	\$10	\$19
4. Assessment of Irrigation Training Resources		\$11	\$3	\$5	\$19
F. APPLIED STUDIES	\$206				
1. Papers Synthesizing Lessons Learned		\$26	\$9	\$20	\$55
2. Field Studies		\$15	\$1	\$135	\$151
G. TECHNOLOGY TRANSFER	\$105				
1. Regional Irrigation Management Workshop		\$17	\$12	\$35	\$64
2. ISPAN Newsletter		\$8	\$6		\$13
3. New Regional Networks		\$18	\$5	\$5	\$28
H. REGIONAL INSTITUTIONS	\$106				
1. Regional Institution Workshop		\$20	\$12	\$20	\$52
2. Regional Newsletter		\$5	\$4	\$5	\$14
3. Site Visits		\$4	\$1	\$35	\$40
TOTAL	\$1,470	\$498	\$339	\$633	\$1,470

FIGURE 3
TECHNICAL SUPPORT CENTER
(TSC) ACTIVITIES

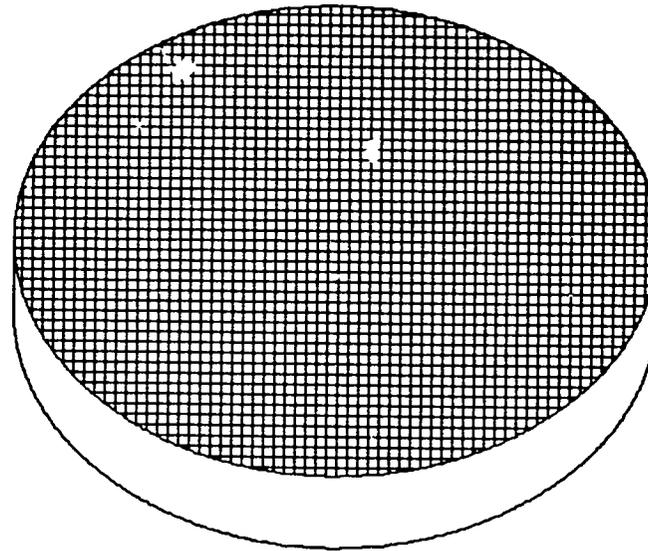


Amounts in US \$1000.

FIGURE 4

A. GENERAL ACTIVITY DEVELOPMENT
(CORE FUNDING)

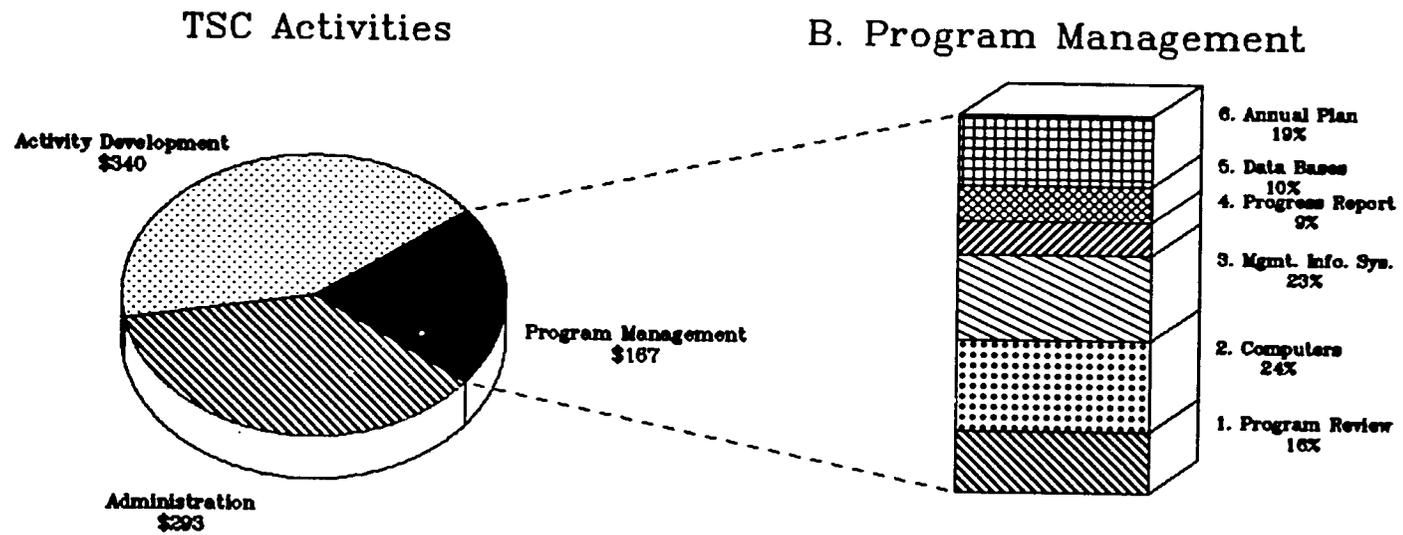
Activity Development
\$340



Amount in US \$1000.

FIGURE 5

B. PROGRAM PLANNING & MANAGEMENT (CORE FUNDING)

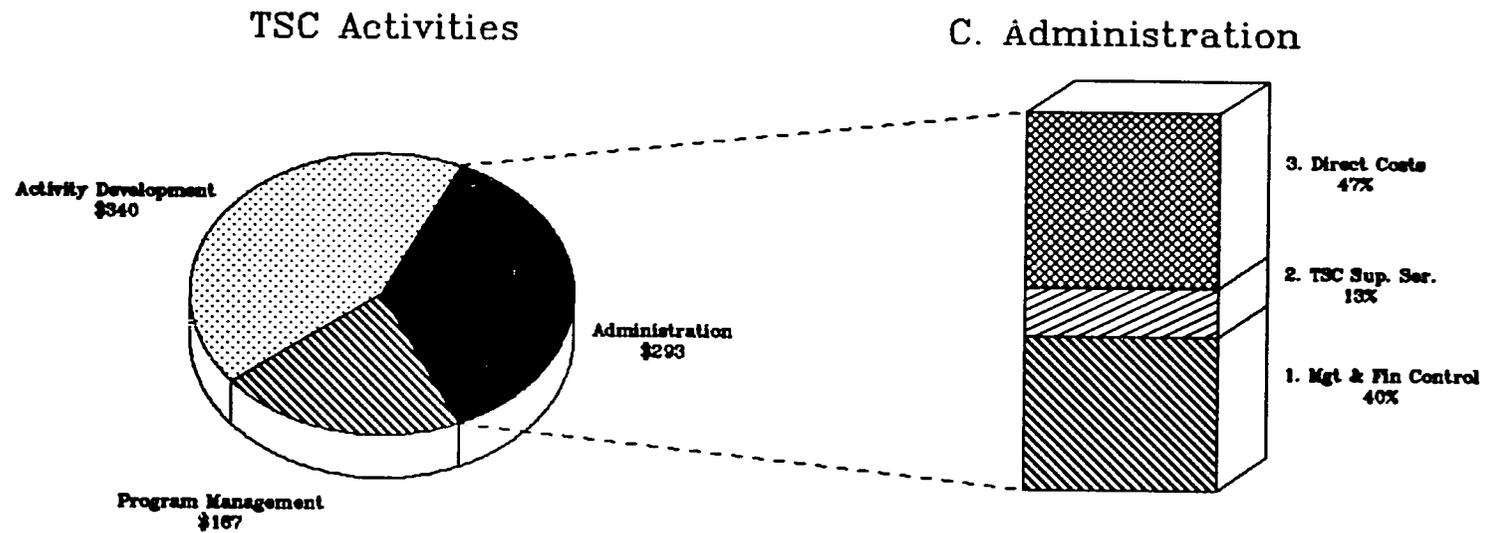


Amount in US \$1000.

12.

FIGURE 6

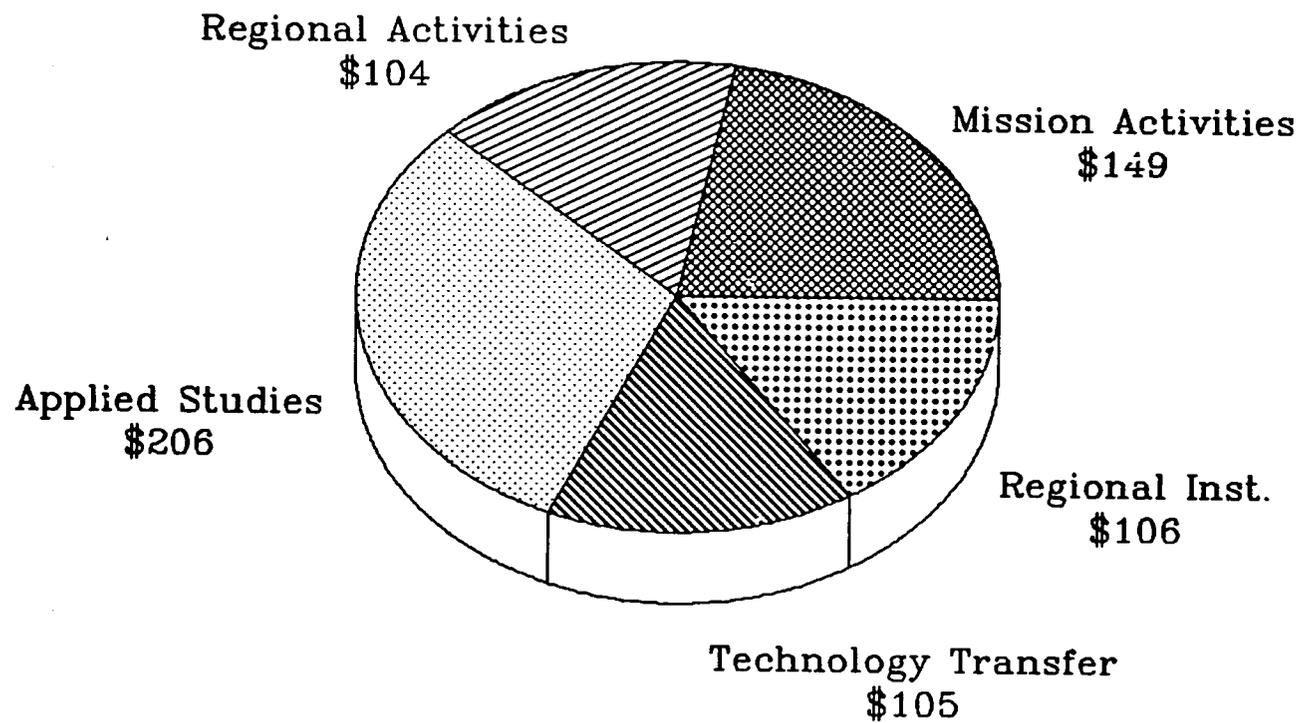
C. ADMINISTRATION (CORE FUNDING)



Amounts in US \$1000.

23

FIGURE 7
MISSION AND REGIONAL ACTIVITIES

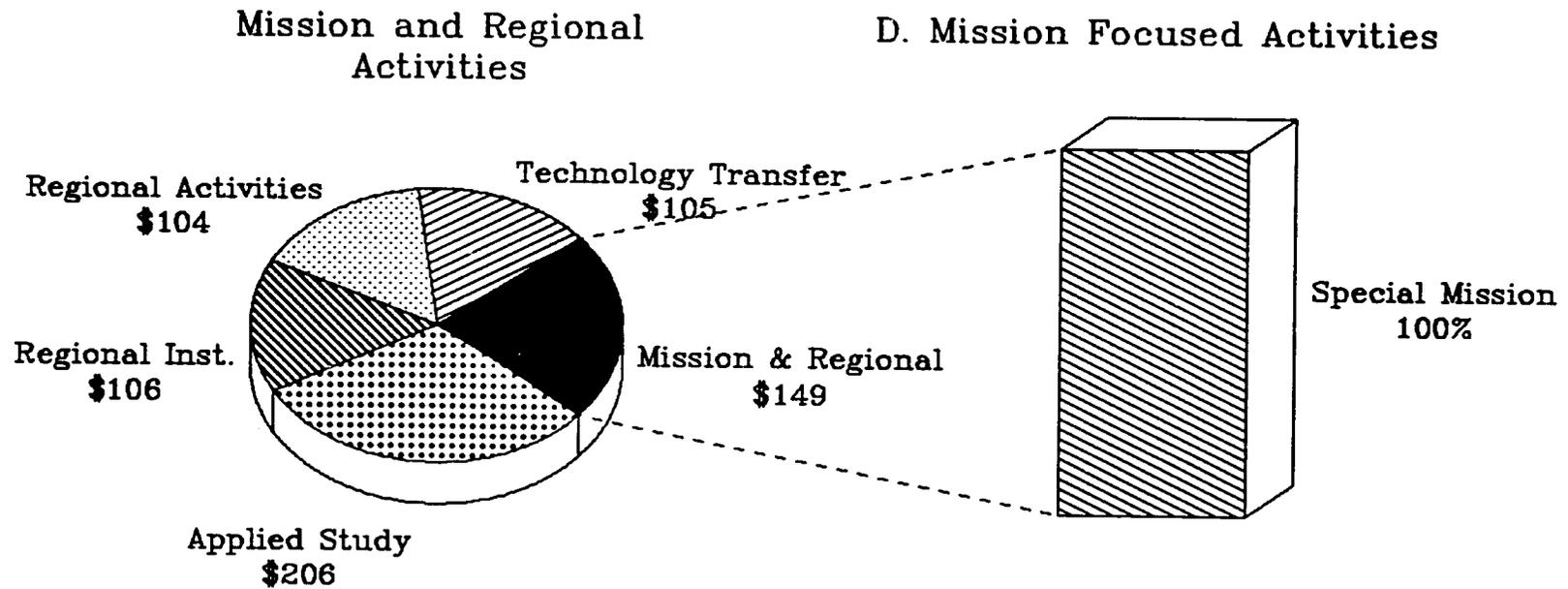


Amounts in US \$1000.

11

FIGURE 8

D. MISSION FOCUSED ACTIVITIES (CORE FUNDED)

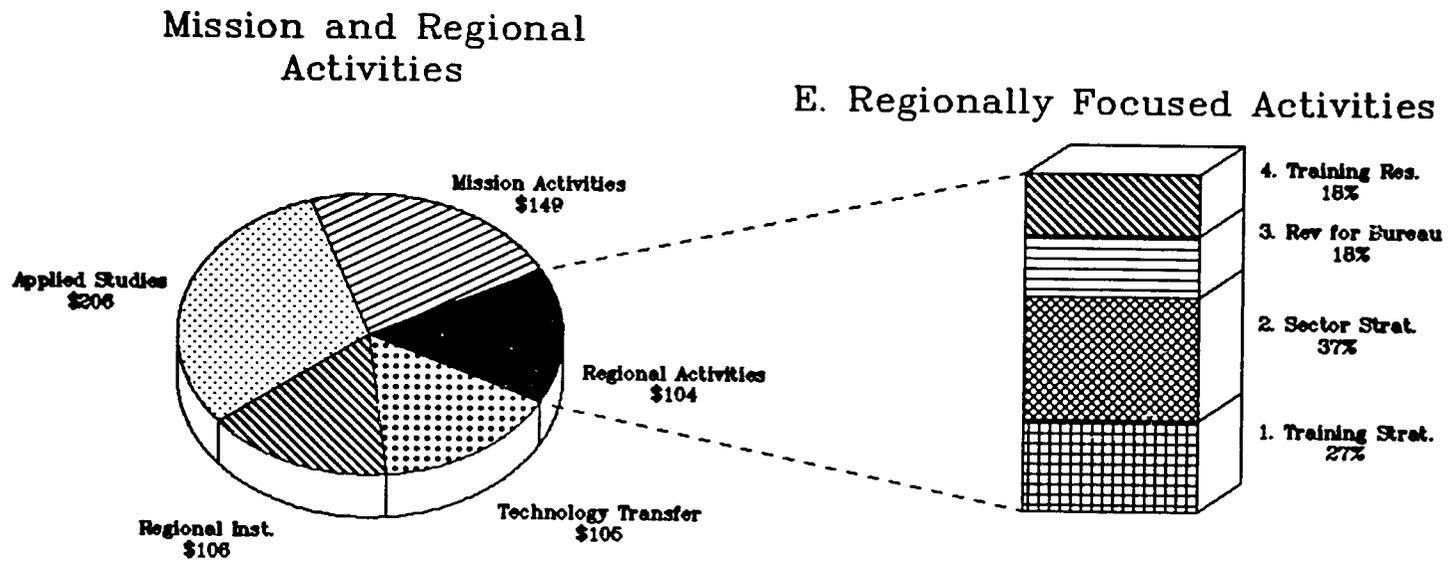


Amount in US \$1000.

5

FIGURE 9

E. REGIONALLY FOCUSED ACTIVITIES (CORE FUNDED)

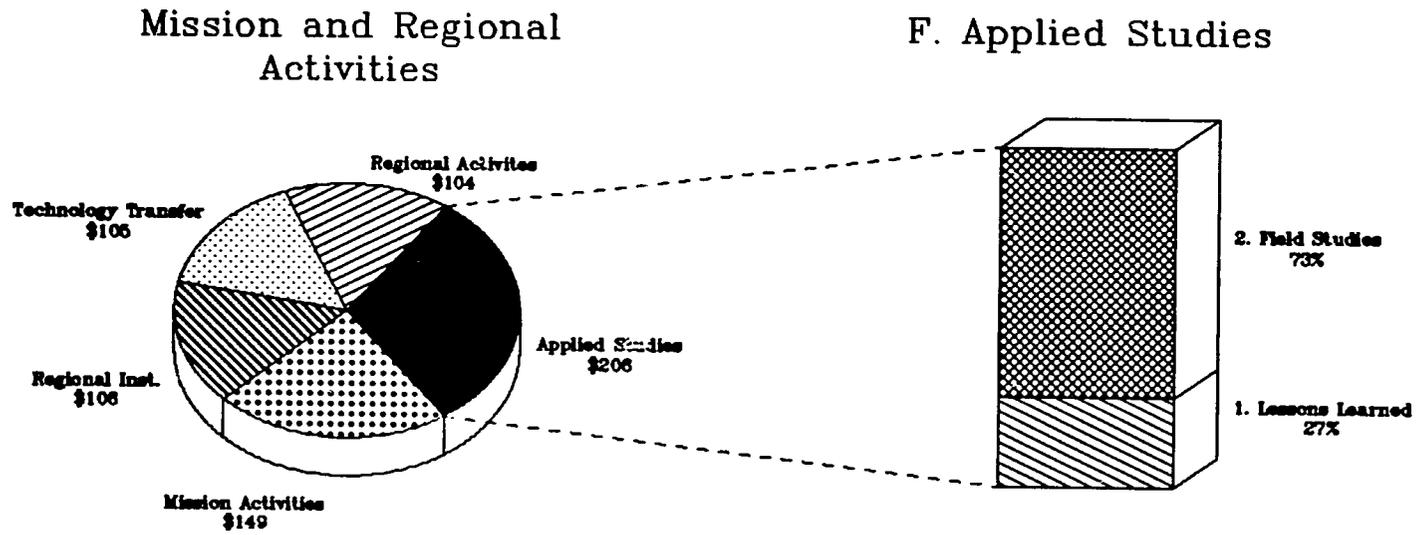


Amount in US \$1000.

16.

FIGURE 10

F. APPLIED STUDIES (CORE FUNDED)

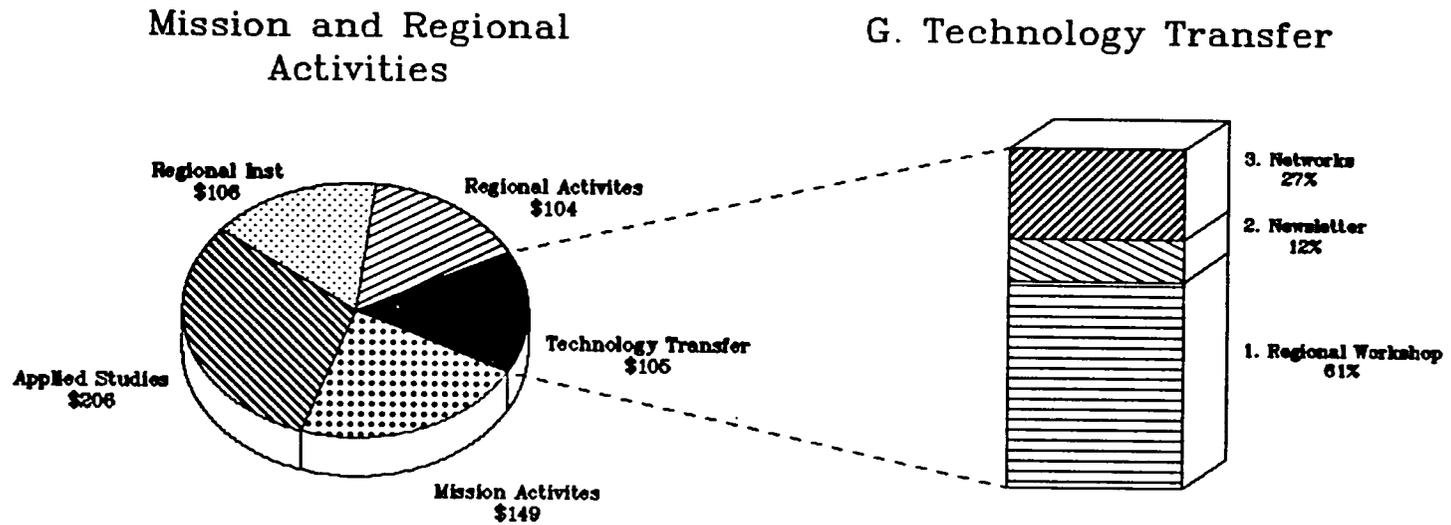


Amount in US \$1000.

17.

FIGURE 11

G. TECHNOLOGY TRANSFER (CORE FUNDING)

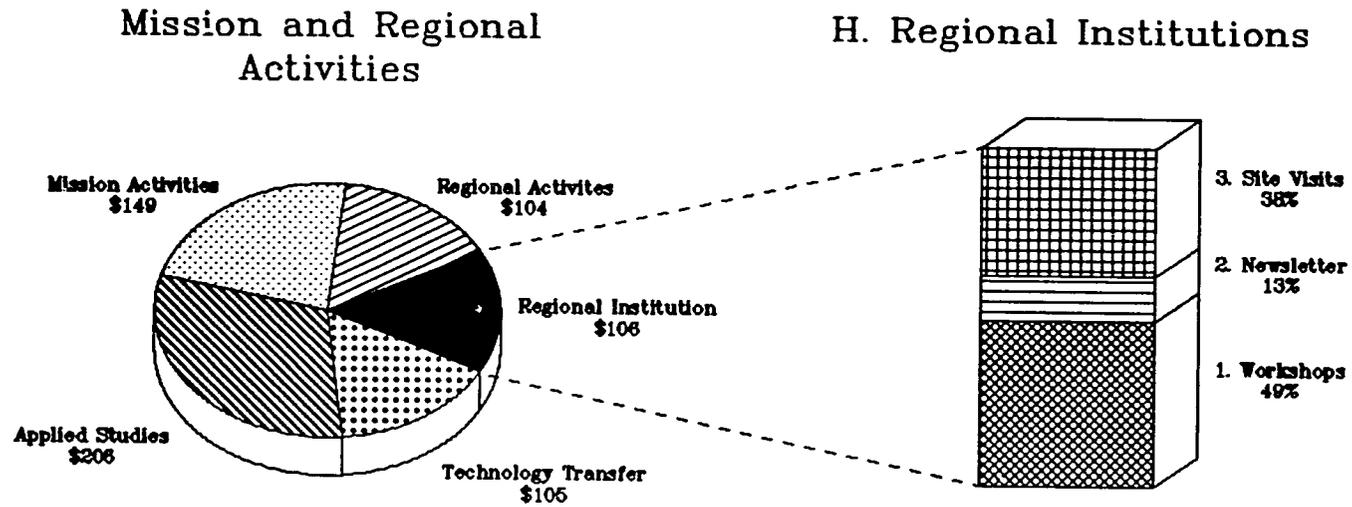


Amount in US \$1000.

13.

FIGURE 12

H. REGIONAL INSTITUTIONS (CORE FUNDING)



19

TECHNICAL SUPPORT CENTER (TSC) ACTIVITIES

A. GENERAL ACTIVITY DEVELOPMENT

B. PROGRAM PLANNING AND MANAGEMENT

C. ADMINISTRATION

PROGRAM COMPONENT:

A. GENERAL ACTIVITY DEVELOPMENT

ACTIVITY:

1. Activity Development

Objectives High quality, rapid and cost-effective response to USAID needs for technical support in the irrigation sector.

Description/Background Activity development is the process by which proposed ISPAN activities such as requests for assistance from Missions or the Bureau are developed from the concept or idea stage to a task order (Activity Implementation Plan or AIP). The steps involved usually include discussion to clarify the problem or need, drafting of a SOW, recruitment of staff, budget preparation, and preparation of AIP documentation and related contract documents. Field work including visits with Mission staff, host country agencies, and to project areas may be required to prepare the SOW. These steps are required for any ISPAN activity including buy-ins and all core funded activities such as applied studies and concept papers. The process ensures that ISPAN activities are properly planned and staffed, and are cost-effective.

Schedule Continuous

Participants TSC staff, supplemented by selected consultants as required. Field visits to Missions and study areas are combined with other ISPAN activities to reduce cost. The Liaison Officers of each consortia member are kept informed of each activity, and they play a vital role in reviewing SOWs, and searching for and recruiting staff.

Estimated Costs	1. TSC Staff and Consultants	\$220
	2. TSC Support Staff	\$ 86
	3. Liaison Officers	\$ 34

	Total	\$340

PROGRAM COMPONENT:

B. PROGRAM PLANNING AND MANAGEMENT

ACTIVITY:

1. Program Review and Technical Meetings

Objectives To monitor and revise as required the ISPAN rolling annual plan. To attend meetings, and give and attend briefings at ANE, S&T, other AID Bureaus and offices, and the offices of other international agencies with whom ISPAN maintains liaison. To establish and maintain working and collaborative relationships with various AID offices, projects and contractors, and with non-AID multilateral and bilateral development organizations with the aim of exchanging information and data to further ISPAN's project goal and purpose, particularly in such areas as development trends and lessons learned.

Schedule Continuous

Participants TSC professional staff, and other ISPAN Consortium staff. Develop a list of organizations, projects and people with whom liaison will be maintained; identify opportunities for contact, meetings and exchange.

Estimated Costs	1. TSC Professional Staff	\$ 21
	2. TSC Support Staff	\$ 3
	3. SAGES	\$ 3

	Total	\$ 27

PROGRAM COMPONENT:

B. PROGRAM PLANNING AND MANAGEMENT

ACTIVITY:

2. Computer System Development

Objectives To establish and maintain the TSC Local Area Network (LAN), and establish effective communications with Consortium members, AID offices and Missions, and ISPAN collaborators including electronic mail, file transfer, bulletin boards, and information exchange with the TSC network.

Description/Background During the first year ISPAN has installed a computer system shown schematically in Annex A which includes a LAN, established workstations, partly installed communications capability, acquired limited software, and began organizing network use within the TSC. Additional hardware and software will be required, and training will be undertaken to fully develop the system.

Schedule Planning and implementation of the remaining tasks will be carried out by the Assistant Office Manager who recently joined the TSC support staff.

Participants TSC professional and support staff.

Estimated Costs	1. TSC Professional Staff	\$ 2
	2. TSC Support Staff	\$ 28
	3. Direct Costs	\$ 10

	Total	\$ 40

PROGRAM COMPONENT:

B. PROGRAM PLANNING AND MANAGEMENT

ACTIVITY:

3. Management Information Systems

Objectives Establish and maintain a Management Information System with the capability to track costs and level of effort (LOE) by specific activity, mission, and funding source on a weekly, monthly, and cumulative basis.

Description/Background During the first project year the MIS data bases and software were designed and installed on the TSC LAN. In the 4th quarter training was carried out while work progressed on testing and verifying the data files, and designing and implementing improvements. This work is expected to continue through the 2nd quarter of FY89

Schedule Implementation of the basic software will be completed by the end of the 2nd quarter of FY89. Maintenance of the system, input of data, verification of data and output, and the design and implementation of improvements and refinements will be a continuous activity.

Participants TSC staff and Consultants

<u>Estimated Costs</u>	1. TSC Professional Staff	\$ 5
	2. TSC Support Staff	\$ 23
	3. Consultants	\$ 10

	Total	\$ 38

PROGRAM COMPONENT:

B. PROGRAM PLANNING AND MANAGEMENT

ACTIVITY:

4. Quarterly and Annual Progress Reports

Objectives To provide the Bureau with a detailed summary of ISPAN activities, accomplishments, and financial status on a quarterly and annual basis.

Description/Background The ISPAN contract requires the preparation of three quarterly progress reports and an annual report. The quarterly reports will summarize activities undertaken during the quarter, identify highlights, problems and actions taken to overcome problems, identify opportunities and problems anticipated in the forthcoming quarter, and managerial decisions pending or anticipated. The annual report will summarize activities of the last quarter, review progress during the year, and provide a cumulative analysis of progress since the start of the project.

Schedule Reports will be issued on 15 Nov., 15 Feb., 15 May, and 15 Aug.

Participants TSC Staff

Estimated Costs	1. TSC Professional Staff	\$ 10
	2. TSC Support Staff	\$ 5

	Total	\$ 15

PROGRAM COMPONENT:

B. PROGRAM PLANNING AND MANAGEMENT

ACTIVITY:

5. Information/Documentation Resources

Objectives To establish and maintain a documentation center comprising country boxes (Annex B), technical reports and documents not commonly found in circulation, and limited general technical literature useful to the TSC and ISPAN technical teams. To establish and maintain data bases (Annex C) comprising the consultant roster, contact directories, activity document directories, the library/information center catalogue, the MIS, the country box catalogue, and the public directory which includes selected documents and data bases, E-mail, and an ISPAN bulletin board.

Description/Background Annex C describes the individual data bases in the ISPAN system. Access to the system will be through a set of menus which provide access to standard reports, or to a query program which can be used to design special searches. The figure in Annex C also indicates the language the data base is implemented in, and the present status of implementation.

Schedule The data base software programs will be completed by the 2nd quarter of FY89; data entry, testing, and verification will be a continuous throughout the year.

Participants TSC staff

Estimated Costs	1. TSC Professional Staff	\$ 4
	2. TSC Support Staff	\$ 12

	Total	\$ 16

PROGRAM COMPONENT:

B. PROGRAM PLANNING AND MANAGEMENT

ACTIVITY:

6. Annual Planning and Workshop

Objectives To maintain a continuous, rolling annual plan; and to provide an opportunity for the SAGEs, Liaison Officers, and AID staff to assess the success, focus and direction, content, and priorities of the plan on an annual basis.

Description/Background The rolling annual plan and data base is maintained by periodically downloading summary data from the MIS. The plan is updated, and the program of activities, priorities, and funding allocations reviewed on a monthly basis. In June, a workshop will be held at which participants such as the ISPAN Senior Advisory Group of Experts (SAGEs) will provide guidance to the TSC on the program and priorities.

Schedule The rolling annual plan is maintained monthly, and the workshop will be held once in FY89.

Participants TSC staff, SAGEs, and Liaison Officers

Estimated Costs	1. TSC Professional Staff	\$ 19
	2. TSC Support Staff	\$ 4
	3. SAGEs	\$ 2
	5. Liaison Officers	\$ 4
	4. Travel and Per Diem	\$ 2

	Total	\$ 31

PROGRAM COMPONENT:

C. ADMINISTRATION

ACTIVITY:

1. Project Management and Financial Control

Objectives To provide management, general administration, and financial control to the project.

Description/Background During FY89, the Project Director and his Deputy will be required to allocate time for overall project management. This time allocation will be for project administration in contrast to program management issues. TSC support staff will require management and direction and time must be budgeted also for hiring new personnel and conducting performance reviews of permanent support staff. In addition, the ISPAN project requires strict financial control by activity and source of funds. In order to provide ISPAN management and AID with accurate and timely accounting records on activities, the TSC needs to budget at least 1.5 person years of effort in FY89.

Schedule Continuous

Participants Project Director, Deputy Project Director, Officer Manager, Assistant Office Manger, Controls/Finance Manager, and Accounting Clerk.

Estimated Costs	1. TSC Professional Staff	\$ 41
	2. TSC Support Staff	\$ 77

	Total	\$118

PROGRAM COMPONENT:

C. ADMINISTRATION

ACTIVITY:

2. TSC Support Services

Objectives To provide non-professional labor support to TSC operations

Description/Background Support services are required from non-professional staff for document production (secretarial and production word processing), reproduction, filing, ordering consumable supplies and materials, office management including maintenance of equipment, inventory control, processing incoming and outgoing mail, staffing of reception area, and operating the phone system.

Schedule Continuous

Participants TSC Support Staff

<u>Estimated Costs</u>	1. TSC Support Staff	\$ 38

	Total	\$ 38

PROGRAM COMPONENT:

C. ADMINISTRATION

ACTIVITY:

3. Direct Costs

Objectives Establish and maintain the physical facilities including office space and communications equipment required for ISPAN operations, and provide for other essential project direct operating costs including postage, supplies, and insurance.

Description/Background The principal direct costs associated with ISPAN include office space rent, telecommunication and telephone, reproduction equipment rental, consumable office supplies, postage and courier services, and insurance.

Schedule Direct cost are paid monthly

Participants TSC Support Staff

<u>Estimated Cost</u>	1. Rent	\$ 80
	2. Communications and Postage	\$ 30
	3. Insurance (DBA)	\$ 11
	4. Other Direct Costs (ODC)	\$ 16

	Total	\$137

MISSION AND REGIONAL ACTIVITIES

D. MISSION FOCUSED ACTIVITIES

E. REGIONALLY FOCUSED ACTIVITIES

F. APPLIED STUDIES

G. TECHNOLOGY TRANSFER

H. REGIONAL INSTITUTIONS

PROGRAM COMPONENT:

D. MISSION FOCUSED ACTIVITIES

ACTIVITY:

1. Special Mission Activities

Priority: 1

Objectives Develop promising ideas and opportunities sufficiently to elicit counterpart interest and facilitate Mission buy-ins.

Description/Background It is frequently necessary for ISPAN to carry out a wide range of preliminary activities to create an environment for funding and implementation of an activity by a Mission. These preliminary activities may include studies and field trips aimed at identifying specific needs and priorities and promoting interest among concerned counterpart organizations in the initial stage or phase of an activity. Core funding commitments are usually small and activities are for a limited duration. However, the capability of the TSC to undertake these initiatives is critical to its role of facilitating and assisting the Mission's timely response to real problems where administrative or other institutional problems must be overcome.

Schedule Intermittent

Participants TSC staff and selected consultants. Consultants would normally be involved only when the need for specialists had been previously identified, or when an adequate SOW for the preliminary activities has been agreed to by the Mission.

<u>Estimated Costs</u>	1. TSC Professional Staff	\$ 12
	2. TSC Support Staff	\$ 2
	3. Consultants	\$ 34

	Total	\$ 48

PROGRAM COMPONENT:

D. MISSION FOCUSED ACTIVITIES

ACTIVITY:

2. Energy Related Activities

Priority: 14

Objectives To assist the Missions, in collaboration with S&T/EY, to address energy issues affecting irrigated agriculture within the region.

Description/Background A series of activities funded under a buy-in by S&T/EY and carried out in selected countries (Egypt in FY88, India in FY89). These activities seek to identify and analyze strategic issues affecting energy and irrigation in collaboration with concerned government agencies. The outcomes are typically a followup action program of activities dealing with priority problem areas, identification of institutions that are able to carry them out, and identification of follow-up actions by the Mission and ISPAN.

Schedule Activities including field trips are scheduled in collaboration with the Mission and the participating Government agency.

Participants Staff needs are identified in the agreed SOW, and depend on the specific focus of the study in each country.

<u>Estimated Cost</u>	1. TSC Professional Staff	\$ 11
	2. TSC Support Staff	\$ 3
	3. Consultants	\$ 87

	Total	\$100

Note: If S&T/EY does not provide ISPAN with buy-in funds for FY89, this activity will not be carried out.

PROGRAM COMPONENT:

E. REGIONALLY FOCUSED ACTIVITIES

ACTIVITY:

**1. ARD Irrigation Sector Strategy
for the 1990s**

Priority: 2

Objectives Prepare a paper for ANE/TR/ARD to provide strategy guidance to the Missions concerning: (i) the trends in irrigation investment for the ANE region and selected countries; (ii) the growing management problems that are in part a consequence of these trends; (iii) the implications for future USAID investments in infrastructure, institutional development, research, and training activities. A second phase is contemplated that would identify and program followup studies and analysis based on the Phase I strategy paper and feedback from Missions, the Bureau, and others.

Description/Background This activity is a part of a broader and larger effort of ARD to develop ANE Bureau's agriculture and rural development strategy for the 1990s. ARD has enlisted the assistance of numerous university collaborators coordinated by Harvard. The results of these analyses will be presented in a symposium in September and will provide the basis for guidance to missions in preparing FY 1991 programming.

Schedule The draft strategy paper is due in the first week of August 1988. The Symposium will be held in the first week of September 1988. Mission reaction will be obtained through the Bureau, during TSC and ISPAN staff visits to the Missions, and in meetings with other ISPAN collaborators.

Participants Randy Barker and Gil Levine of Cornell will take the lead for ISPAN in identifying collaborators, and in drafting the strategy paper. Participants in the followup activities will identified when the specific tasks are programed.

<u>Estimated Costs</u>	1. TSC Professional Staff	\$ 6
	2. TSC Support Staff	\$ 2
	3. Consultants	\$ 30

	Total	\$ 38

PROGRAM COMPONENT:

E. REGIONALLY FOCUSED ACTIVITIES

ACTIVITY:

2. Improved Training Strategies-Phase II

Priority: 3

Objectives Increase the effectiveness and contribution of training programs to improve performance of the irrigation sector, particularly that of public sector agencies.

Description/Background Recognizing the potential for improving the operational performance of irrigation systems in developing countries, and the potential role that training can play in fostering that improvement, USAID (ISPAN and S&T/AGR through the Water Management Synthesis II project) and the World Bank (The Economic Development Institute, EDI) are collaborating in the development of a guidance document to assist LDC governments in both formulating and implementing systematic training strategies and policies. During Phase I of this activity, an initial draft of the guidance document was prepared and a three-day workshop held to discuss the draft and provide instructions for completing the document. The workshop included 35 participants from 17 countries.

Schedule The review draft of the new document will be distributed to workshop participants for comment (end of review period 2/15/89), and discussed at several regional meetings, and with individuals in the concerned countries during visits by USAID and Bank staff. The final draft document will be ready for agency clearance in early March.

Participants Tom Wickham has been recruited to prepare the draft final document. The Bank (EDI) will hire a research assistant to assist him with gathering data describing specific examples for use in the document. The TSC staff will coordinate and supervise report preparation, distribution, and review.

Estimated Costs	1. TSC Professional Staff	\$ 10
	2. TSC Support Staff	\$ 3
	3. Misc Direct Costs	\$ 15

	Total	\$ 28

PROGRAM COMPONENT:

E. REGIONALLY FOCUSED ACTIVITIES

ACTIVITY:

3. Review Assistance to the Bureau

Priority: 6

Objectives Provide quick response, and high quality, consistent technical review of documents for ANE/TR/ARD and other AID/Wash offices as appropriate.

Description/Background A capability for quick turn-around review of important technical documents and papers is needed by ANE/TR/ARD. ISPAN will develop this capability by establishing a network of technical reviewers who provide state-of-the-art, consistent, and quick response review of reports and papers on request.

Schedule Intermittent

Participants TSC Professional Staff and Consultants

Estimated Costs	1. TSC Professional Staff	\$ 8
	2. TSC Support Staff	\$ 1
	3. Consultants	\$ 10

	Total	\$ 19

PROGRAM COMPONENT:

E. REGIONALLY FOCUSED ACTIVITIES

ACTIVITY:

4. Assessment of Irrigation Training Resources

Priority: 11

Objectives To provide an overview and detailed inventory of international irrigation training resources, particularly specialized centers and institutes, and improve the match between training needs and programs.

Description/Background Over the last 20 years, AID and other donors have made huge direct and indirect investments in training resources to serve the irrigation sector. The aim of this activity is to assess the resources available focusing particularly on international centers and institutes, review AID's past experience with these resources, and assess the relevance of programs offered to present and future needs. New data from surveys of a large number of training participants is expected to be available from Nepal, India, and Pakistan. These data and data from other countries, if possible, will be utilized.

Schedule This activity will be designed in the 1st quarter including the drafting of a SOW and staffing plan. Collaboration in the area of in-country data collection, surveys, and local consultants will be sought from several Missions in the region including those noted above.

Participants ISPAN Consortium staff and Consultants

<u>Estimated Costs</u>	1. TSC Professional Staff	\$ 11
	2. TSC Support Staff	\$ 3
	3. Consultants	\$ 5

	Total	\$ 19

PROGRAM COMPONENT:

F. APPLIED STUDIES

ACTIVITY:

1. Papers Synthesizing Lessons Learned

Priority: 4

Objectives To reflect on emerging trends and problems in irrigation development in the ANE region through studies and analysis. Identify lessons learned and prepare provocative concept and strategy papers for review and use by the Bureau, Missions, and counterpart agencies.

Description/Background Thus far, several potential areas for synthesizing the experiences of USAID irrigation programs have been identified: innovative approaches to institutional development, cost recovery, devolution of authority, and improved irrigation systems performance, particularly experience with improvements in main system management, and the introduction of new management and operational technology. The study of institutional development will be undertaken first. Although most USAID long-term projects include an institutional development component, it appears that the main focus has been on staff training, usually leaving the thornier problems of institutional structure and organization aside. The study will review the objectives, accomplishments, and failures of institutional development components of irrigation projects in the region.

Schedule The review and assessment of institutional development thrusts by USAID will begin in October and is expected to last two months. Data collection will include the review of documents and site visits to Missions and counterpart irrigation agencies in three to four countries selected for comparative purposes.

Participants The activity will be undertaken by members of the TSC staff, particularly the Program Manager for Social Science and Applied Studies.

Follow-up The paper is expected to lead into the design of a proposal for an applied field study on the organizational behavior of irrigation agencies, an area long neglected.

Estimated Costs	1. TSC Professional Staff	\$ 26
	2. TSC Support Staff	\$ 9
	3. Consultants	\$ 20

	Total	\$ 55

PROGRAM COMPONENT:

F. APPLIED STUDIES

ACTIVITY:

2. Field Studies

Priority: 5

Objectives To examine, assess, and ultimately recommend mechanisms for the improvement of irrigation sector performance through a program of applied studies and action research.

Description/Background Despite massive investments in irrigation development during the past two decades, crucial organizational and technical issues remain which require further investigation and resolution. ISPA's Applied Studies Program study topics focus on the improvement of irrigation system performance. The program is designed to support the ANE Bureau and Missions and counterpart agencies in the region in identifying strategies and implementing programs for more effective investments in irrigation development in the future.

Applied studies concerned with improving management performance look at both public sector organization performance and expanded private sector involvement. The improvement of irrigation sector performance has the following components: policy reform; resource management; systems operation and maintenance; and the rehabilitation, remodeling, and modernization of existing systems. These topics serve as general guidelines for more specific study proposals.

Schedule. Study proposals are being reviewed for approval and funding. Field studies are expected to begin in the first quarter of FY89.

Participants Faculty of the University of Arizona and Cornell University; faculty of the regional institutions (see Component H.); faculty of other universities in the study country; and consultants.

<u>Estimated Costs</u>	1. TSC Professional Staff	\$ 15
	2. TSC Support Staff	\$ 1
	3. Funded Proposals	\$135

	Total	\$151

PROGRAM COMPONENT:

G. TECHNOLOGY TRANSFER

ACTIVITY:

1. Regional Irrigation Management Workshop

Priority: 7

Objectives To encourage communication among USAID Missions and counterpart irrigation agencies in the ANE region through a sharing of information about country strategies, programs, and lessons learned. To explore substantive issues related to irrigation development in regional perspective. To provide input and feedback on ISPAN's rolling plan.

Description/Background The workshop would be the third meeting of representatives of USAID Missions in ANE and counterpart agencies. Previous workshops were held in Karachi (1987) and Kathmandu (1988). The last, sponsored by ISPAN, provided AID staff from ten Missions and local counterparts an opportunity to discuss recent developments in irrigation in their countries, particularly aspects related to their USAID programs and in the context of presentations made on institutional strengthening and participation, and cost recovery. The workshop also enabled participants to provide input for the ISPAN FY89 Workplan. At the urging of the workshop participants, the third meeting will also focus on institutional strengthening and cost recovery. Results of applied studies will be presented and discussed for program implications.

Schedule The workshop is scheduled for mid-February. The Governments of Egypt and the Philippines, and Hassan II Institute in Morocco, have offered to serve as hosts for the workshop. The likely venue will be Cairo.

Participants ANE Mission staff, counterparts from local irrigation agencies, representatives from ISPAN Regional Institutions, and the ISPAN team.

Follow-up Substantive issues identified by the participants as the most crucial in the region are likely to be examined in greater detail through a variety of ISPAN activities: applied studies, regional institutions workshops, and regional networks.

Estimated Costs	1. TSC Professional Staff	\$ 17
	2. TSC Support Staff	\$ 12
	3. Consultants	\$ 35

	Total	\$ 64

PROGRAM COMPONENT:

G. TECHNOLOGY TRANSFER

ACTIVITY:

2. ISPAN Newsletter

Priority: 9

Objectives The ISPAN Newsletter provides a regular update on project activities to Bureau and Mission staff.

Description/Background The newsletter has already appeared in an inaugural version. A second issue is currently being prepared by the TSC for August release. It discusses completed and ongoing activities in some detail and indicates anticipated assignments. Items presented in the newsletter may be expanded upon through the regional institutions newsletter and brief papers which summarize ISPAN activities.

Schedule The newsletter will be produced quarterly in August, November, February, and May.

Participants The Newsletter is a responsibility of the TSC.

Estimated Costs	1. TSC Professional Staff	\$ 8
	2. TSC Support Staff	\$ 5

	Total	\$ 13

PROGRAM COMPONENT:

G. TECHNOLOGY TRANSFER

ACTIVITY:

3. Identification and Preliminary
Development of New Regional Networks

Priority: 10

Objectives To establish a small number of informal groups of regional and American experts focusing on particular issues of strategic importance in irrigation development.

Description/Background This activity provides an opportunity for experts to meet or exchange writings and explore issues and problems related to irrigation in Asia and the Near East. Suggested foci for networks include cost recovery, innovative training approaches, impact of irrigation development on women, and improving institutional participation. The group, in consultation with ISPAN, will determine the appropriate product(s) which will be provided to the Bureau, Missions, and counterpart agencies.

Schedule With Bureau and Mission participation, an initial network focus will be determined and potential members identified.

Participants Those in the network are expected to be a varied group, and may include university faculty, policy makers and agency staff, and project implementors.

Follow-up Network activities are likely to develop into applied studies and technical assistance activities.

Estimated Costs	1. TSC Professional Staff	\$ 18
	2. TSC Support Staff	\$ 5
	3. Consultants	\$ 5

	Total	\$ 28

PROGRAM COMPONENT:

H. REGIONAL INSTITUTIONS

ACTIVITY:

1. Regional Institution Workshop

Priority: 8

Objectives To foster the exchange of information and research experience within the region by means of a workshop series. Researchers at ISPAN, regional institutions, and other selected local institutions will be the main participants, but mission staff and others from international agencies will also participate

Description/Background The purposes of the workshops are to (1) forge an effective network among researchers at the selected regional institutions, (2) focus this new network on emerging issues, and (3) use the network to share and exchange experience and findings. The workshop series will rotate among the participating countries. Representatives from international organizations will be invited and requested to contribute resources to ongoing and proposed research and applied studies. The workshops will focus on important issues in irrigation development, with the focus changing for each meeting. Funds will be used primarily for the preparation of a theme paper which synthesizes existing data, research results, experience, or lessons learned. The paper should reflect the expertise and experience of the regional institutions, who will play a leading, substantive role. The paper would be circulated to identified participants well beforehand to maximize their contribution at the workshop. Participants will provide specific input for the paper, in the form of case studies or analysis, which will be interwoven into the text.

Schedule The following need to be identified:

Inaugural workshop site	October
Focus of the workshop	November
Author(s) of the paper	November
Participants at the workshop	December/February
Preparation of paper	December/February
Workshop	April
Final version for distribution	June

Participants To include regional experts from regional and local institutions, international agencies, ANE Mission staff, TSC staff, and US-based experts.

<u>Estimated Costs</u>	1. TSC Professional Staff	\$ 20
	2. TSC Support Staff	\$ 12
	3. Workshop Direct Costs	\$ 20

	Total	\$ 52

PROGRAM COMPONENT:

H. REGIONAL INSTITUTIONS

ACTIVITY:

2. Regional Newsletter

Priority: 12

Objectives To encourage the exchange of information on irrigation-related development activities, particularly among Missions and counterpart agencies in Asia and the Near East, through the regular publication of a newsletter at an ISPAN Regional Institution.

Description/Background Although a number of irrigation newsletters are currently in circulation, none deal specifically or adequately with AID funded or complementary programs. Efforts in irrigation development supported by individual Missions and irrigation departments often have important implications for those working elsewhere in the region. However, participants at the recent Regional Irrigation Management Workshop in Kathmandu unanimously agreed that there are few mechanisms for disseminating information among Missions and counterpart agencies. A regional newsletter, housed in one of ISPAN's regional institutions, would act as a central information node, focusing on ongoing and anticipated work, strategies, and plans for improved irrigation management. The newsletter would include short updates on specific activities, but would also highlight particularly successful efforts, lessons learned, recommendations, and follow-up.

Schedule The newsletter will be produced semi-annually at the regional institution.

Participants An ISPAN regional institution with proven expertise in the writing and distribution of an institutional newsletter will have lead responsibility. The institution will most likely be Central Luzon State University, (Philippines) which already produces Irrigation Update for a largely Philippine audience.

<u>Estimated Costs</u>	1. TSC Professional Staff	\$ 5
	2. TSC Support Staff	\$ 4
	3. Regional Instit.	\$ 5

	Total	\$ 14

PROGRAM COMPONENT:

H. REGIONAL INSTITUTIONS

ACTIVITY:

3. Site Visits

Priority: 13

Objectives To identify institutions in South Asia which could be candidates for the Regional Institution Program.

Description/Background Two institutions, one in the Near East and the other in Southeast Asia, have already been selected as ISPAN regional institutions. Given adequate funding for the program, ISPAN would select a third institution in South Asia. An initial list of potential institutions was in the ISPAN Project Paper. Proposals were requested from seven institutions in India, as well as from universities and research agencies, and management and training centers elsewhere in the region. While some of the Indian institutions submitted statements of interest and qualifications, they were not sufficient to assess their capacities. Furthermore, USAID/Delhi has expressed an interest in playing a role in identifying candidates for consideration and has voiced preference for the selection of a training institution.

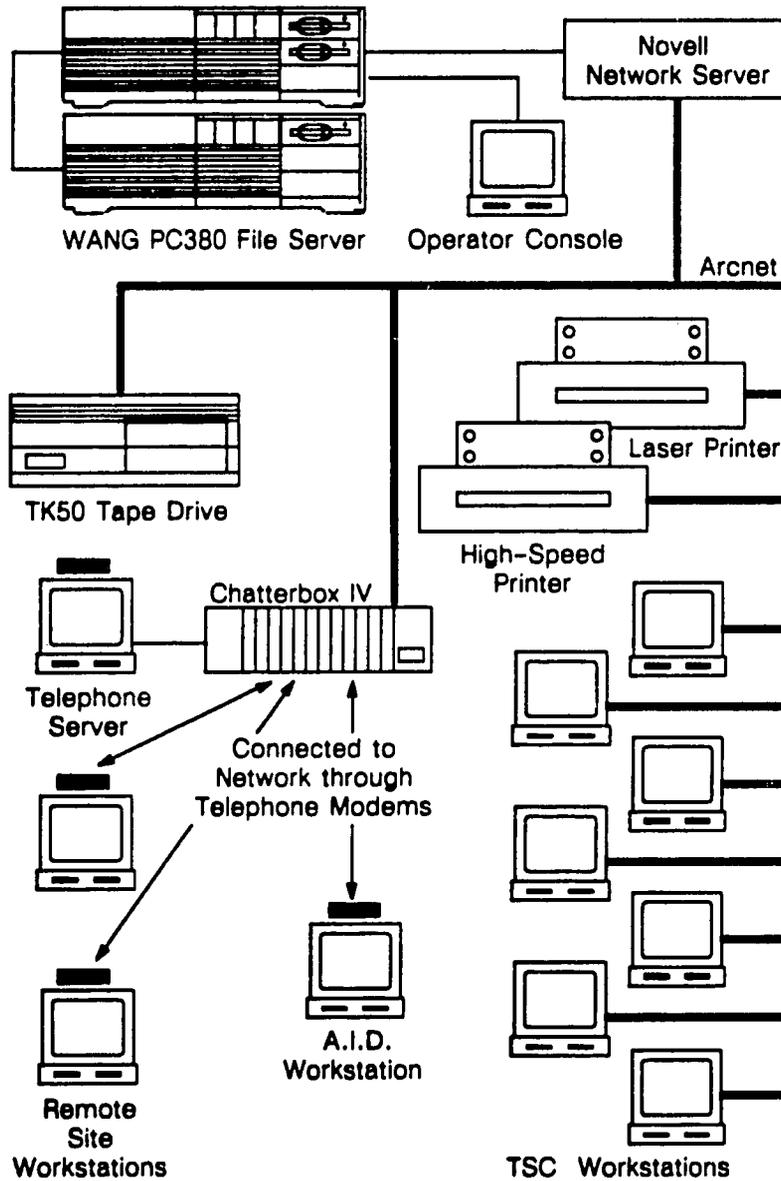
Schedule With Mission participation, four or five institutions in India will be selected for visits by a two-person ISPAN team during a two-week period. The visits would be made in the Spring of 1989.

Participants To include a member of the TSC staff and another regular ISPAN participant (eg. a SAGE).

<u>Estimated Costs</u>	1. TSC Professional Staff	\$ 4
	2. TSC Support Staff	\$ 1
	2. Consultants	\$ 35

	Total	\$ 40

System Overview



ISPAN System Configuration

45A

ISPAN COUNTRY BOX ORGANIZATION

1. **Country Background**
 - 1.1. Country summaries (area handbook, etc.)
 - 1.2. Government organization
 - 1.3. Government Policies, Plans, Programs
 - 1.3.1. National
 - 1.3.2. Regional/State
 - 1.3.3. Natural Resources
 - 1.3.4. Energy
 - 1.3.5. Agriculture
 - 1.3.6. Forestry
 - 1.3.7. Aquaculture
 - 1.3.8. Irrigation
 - 1.3.9. Education/Training
 - 1.4. Irrigation/Related Projects (non-AID)
 - 1.4.1. National
 - 1.4.2. Donor supported
 - 1.5. Legislation
 - 1.5.1. Laws, regulations
 - 1.5.2. Land laws, regulations
 - 1.5.3. Water charges, fees
 - 1.6. Economics
 - 1.7. Demographics
 - 1.8. Geography and maps
 - 1.9. Directories
 - 1.10. Irrigation related organizations
 - 1.11. Other
2. **USAID**
 - 2.1. Mission staff - Mission address, telex, names, titles, phones, etc.
 - 2.2. CDSS
 - 2.3. ABS
 - 2.4. Action Plan
 - 2.5. Agricultural sector strategy/plans
 - 2.6. Irrigation sector strategy, plans
 - 2.7. AID Project documents (PIDs, PPs, Evals.)
 - 2.8. Other AID documents, reports
 - 2.9. AID sponsored reports, etc.
 - 2.10. Other
3. **ISPAN**
 - 3.1. Country work plan, program, schedule, budget, etc.
 - 3.2. Contact reports
 - 3.3. Activity reports

- 3.4. List of people/organizations contacted
- 3.5. Country consultants
- 3.6. Experience/lessons learned reports
- 3.7. Other

- 4. Slides, Audio Visual Materials

- 5. ISPAN Library Holdings on the Country
 - 5.1 Title, author, source, date, pages, call no., descriptors. (ISPAN Library Data Base)

- 6. Other

ISPAN DATA BASES UNDER DEVELOPMENT**1. ISPAN Organization Directory**

This directory includes the name, address, contact person, phone number, etc., of organizations and individuals that ISPAN has been in contact with.

2. ISPAN/ANE Country Document Index

This Data Base lists the titles of all documents, reports, etc., from world-wide sources that are country specific. The hard copies are stored in special files ("County Boxes") established for this purpose (see Annex B for a subject index).

3. ISPAN Information Exchange Roster

The Roster lists about 700 organizations and individuals world-wide that have received the ISPAN Brochure and are interested in sharing information.

4. ISPAN Consultant Roster

This Roster lists and describes the skills, experience, education and language proficiency of qualified consultants who may be selected to work on ISPAN activities.

5. ISPAN Activity Directory

This directory lists the title, number, country, date initiated, funding and manager of each Activity being undertaken by the TSC both at the activity identification phase and the implementation phase. Current staffing needs, and the ISPAN schedule of upcoming field activities are also linked.

6. ISPAN MIS

The Management Information System keeps track of the financial, accounting and budgeting aspects of TSC operations. It is linked to the consortium members and to the ISPAN Project Officer's office in ANE/TR/ARD at the State Department building in Washington.

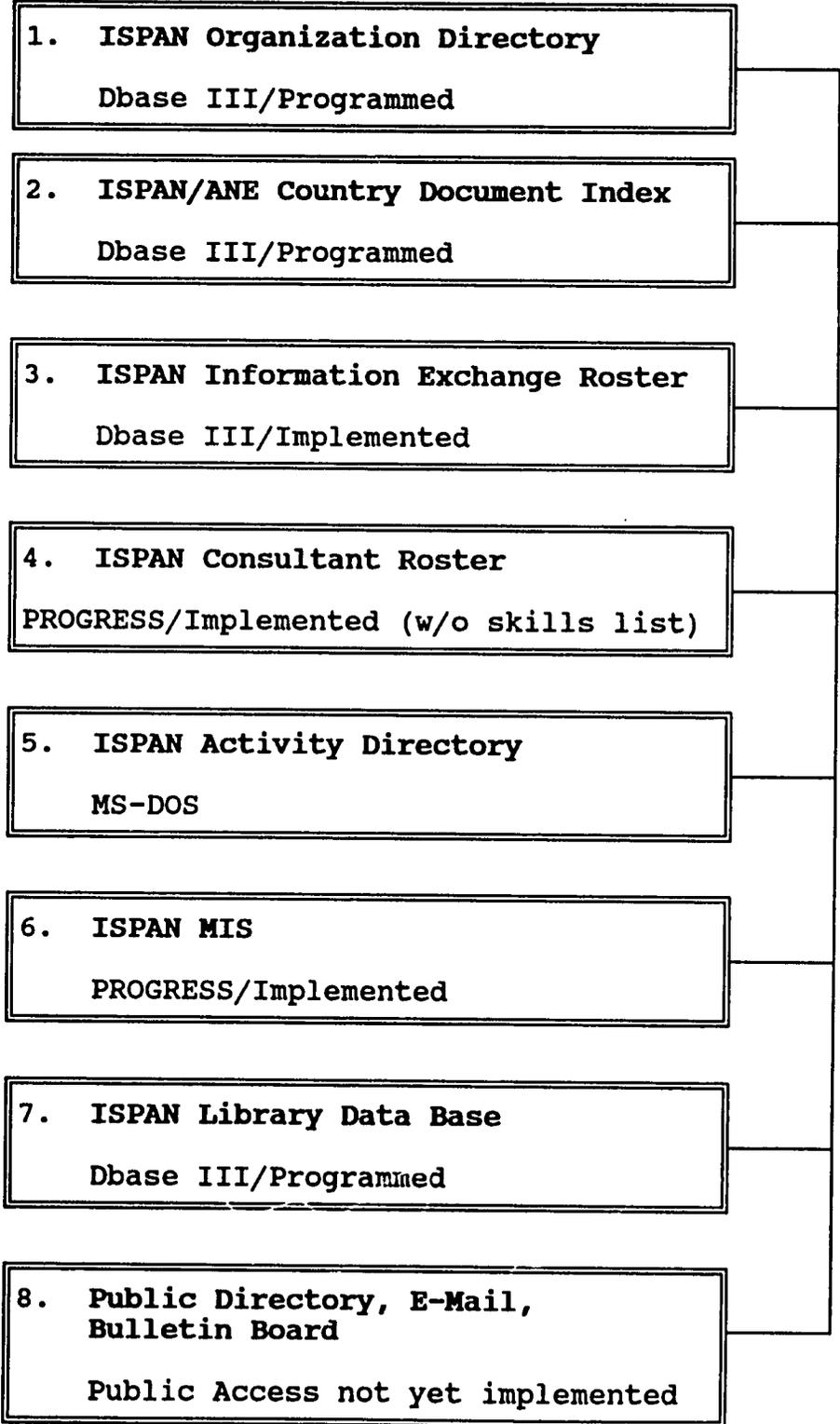
7. ISPAN Library Data Base

All documents, books, reports, etc., in the ISPAN library are indexed and stored using the UNESCO Thesaurus. The Data Base can be searched by author, title and subject.

8. Public Directory, E-Mail, Bulletin Board

This directory will list external sources of information and linkages for searching and provide E-Mail and Bulletin Board services to TSC staff and consortium members and selected external irrigation organizations and individuals.

SCHEMATIC DIAGRAM OF PROPOSED ISPAN DATA BASES



ISPAN
LAN