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ASEAN-US WATERSHED PROJECT
College, Laguna, Philippines

PROJECT COMPLETION REPORT
(1984 - 1989)

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ASEAN-US WATERSHED PROJECT
College, Laguna, Philippines

Project Completion Report

EXECUTIVE SUMMARY

1. The ASEAN-US Watershed Project was implemented in January 1984 and should have ended in 1988 but a one year extension (January - December 1989) was granted.

2. The Project aims to promote cooperation and collaboration among ASEAN member countries to improve watershed conservation and management activities in the region. There are five major project components, to wit: 1) Project - sponsored Activities; 2) Training 3) Research Support; 4) Los Baños Center; and 5) US Liaison and Consulting Services.

   a. Project-Sponsored Activities aim to set joint research and training objectives, encourage information exchanges and to improve skills of network participants.

   b. The Training Component aims to train individual participants in academic courses and research institutions to improve their ability to contribute to the ASEAN network and watershed management research.

c. Research Support component aims to provide equipment and training in use of the equipment to improve and standardize data collection and analysis in priority research activities.

d. The Los Baños Center is intended to coordinate network activities and provide training and information exchange, support services, manage Project activities and channel project resources to support established research priorities.

e. The US Liaison and Consulting Services aim to expedite project start-up, facilitate flow of AID inputs, provide resource persons for project activities, assist project evaluation and consulting in support of the project.

3. The total amount of US $2.5 M was released by the US through the Agency for International Development as a grant fund for the implementation of the Project. The ASEAN, likewise, provided the equivalent of US $1.8 M including cost borne on an "in-kind" basis.

4. In CY 1984, the Project was able to implement a symposium, a seminar, a workshop, and a study tour as well as started the collation of research abstracts and results and edited the proceedings of the Project-Sponsored Activities.

5. In CY 1985, a workshop, a fellowship tour, a training seminar, a seminar, a training course and a seminar workshop were sponsored by the Project. Likewise, scholarship grants were awarded to five scholars (one Ph. D. and four MS) to study in US and ASEAN Universities. Research support equipment procurement were processed through USAID. Three issues of the ASEAN Newsletter and the proceedings of the Project-Sponsored activities were published. A Project Liaison Specialist from the U.S. was contracted by the Project in October, 1985.

6. For CY 1986, the Project implemented three workshops, a roving seminar, two training courses and a study tour and a research training program. Two scholarship grants were further awarded. The research support equipment for Indonesia, Malaysia, and Thailand were on the contracting stage (with FETCO) through USAID. The Project Office published four issues of the ASEAN Newsletter and two Proceedings of Project-Sponsored activities. Collation of research abstracts were started. The Project was also able to sponsor a number of participants to other related non-project-sponsored activities to wit: a Workshop on Integrated Water Basin Development and Watershed Management; an International Symposium on Tropical Forest Hydrology and an IUFRO conference.

7. In CY 1987, a Training Seminar, a Roving Lecture and two Training Courses were sponsored by the Project. Participation of some ASEAN experts to a workshop was also financed by the Project. The research support equipment for Indonesia, Malaysia and Thailand were already delivered. Thailand was able to avail of the training in the use of the equipment. The Project was able to publish four issues of the ASEAN Newsletter and a proceedings. The Project's soundslide documentary was completed, and more than 200 compiled abstracts were edited for publication. Additional four scholarship grants were also awarded in 1987.

8. In CY 1988, the Project was able to sponsor two Workshops, and four Training Courses as well as the participation of some experts to a Conference. Of the 11 scholars, four have successfully finished their degrees while five are still working on their academic courses. Two were not able to finish their degrees within the specified time. The Philippine research equipment was on the contracting stage (FETCO) through USAID. One proceedings, abstracts (Vol. 1) and four issues of the ASEAN Newsletter were published and about 150 abstracts/bibliographies were collected and sorted for abstracts (Vol. 2).

9. For CY 1989, the following activities are scheduled for implementation: Seminar (April - Thailand), Training Course No. 1 (February - Philippines), Training Course No. 2 (June-

Malaysia), PCC Meeting (October - Philippines), PSC Meeting (November - Philippines). Of the scheduled activities, only the Training Course in the Philippines was conducted while the Seminar and the other Training Course were indefinitely postponed due largely to budgetary constraints. Likewise, the Philippine research equipment may be released from the Customs Office soon. The Project Office will continue to publish the quarterly Newsletter in 1989 and the proceedings of Project-sponsored activities. Abstracts (Vol. II) issue is still in the press. Fifteen research papers from Thailand were translated and compiled in the Project Office. Further, there are five scholars who are working on their academic courses and are expected to graduate within the year. The four research manuals were already edited and sent to the respective authors for their final writing.

10. To date, there were a total of 972 professionals who were direct recipients of activities organized by the Project. These activities were held in the ASEAN participating countries. The target number of direct recipients of Project activities is 520. In other words, the Project has succeeded in involving almost twice the number of targeted recipients. The almost doubled output of the Project is largely due to the support of the United States through USAID and ASEAN through the Government of the Philippines and Project Country Coordinators as well as the dedication and cooperation of ASEAN professionals and staff.

11. During project implementation, it was necessary to strengthen if not give more emphasis on the training and information dissemination components of the project to address the changing priority concerns/needs of the region and to maximize the need of limited resources.

12. Inescapably, there were problems encountered during project implementation. The more important problems include significant delays in budget releases and salaries of project staff; limited time to prepare project activities after USAID's approval of activity budget; and lack of authority on the part of the Project Office to select final project participants.

INTRODUCTION

Background

Watersheds are complex and dynamic ecosystems which include not only bio-physical, but also sociological, economic, institutional and human components. Although some of these components may appear to be common to all the ASEAN countries, considerable differences in specific watershed characteristics do occur. Many of the problems encountered in watershed conservation and management also appear to be common to ASEAN countries but the specific circumstances leading to the problems, may be quite different for each individual country. However, the single feature truly common to all ASEAN countries is the dearth of reliable, quantitative information and experiences needed to develop effective, sound and long-term strategies for watershed conservation and management.

Recognizing the need to optimize regional cooperation in overcoming the above problems, the ASEAN member countries proposed to establish an ASEAN Center for Watershed Management and Development in a regional workshop held in Kuala Lumpur, Malaysia on September 3-7, 1979. The U.S. government provided funding for the workshop under the ASEAN-US Development Cooperation Program.

The proposal to establish the Center is one of four proposals which were endorsed and submitted by the ASEAN Committee on Food, Agriculture and Forestry (COFAF) to USAID for possible financial assistance. The other proposals were:

1. Integrated Research Studies on the Management of Forested Watersheds;

2. Integrated Research Studies on the Development and Management of Non-forested Watersheds; and

3. Integrated Studies on the Social, Economic, Technical and Institutional Profiles of Watershed Conservation, Management and Development.

The proposals were reviewed and modified by an AID PID review team. A modified proposal was consequently offered by the AID PID review team.

In order to determine how U.S. Government assistance could be utilized by ASEAN, a two-man observational team was tasked to visit each ASEAN country and prepare a comprehensive report on their findings for use by the AID/ASEAN staff in preparing a new PID. The team was composed of Mr. John C. Stephens, a watershed research scientist, and Mr. Edward W. Williams, an agricultural management specialist. The Team was assisted by Mr. Donald Melville, an AID/ASEAN Liaison Officer in Manila, Philippines. The report of the two-man team concluded that financial aid to the ASEAN countries relative to the proposal would be most effective by providing assistance in the establishment of a

regional center for watershed conservation research and management in either Malaysia or the Philippines.

A review of the two-man team report was subsequently undertaken for which AID/Washington agreed to assist in the establishment of an ASEAN Center. USAID will provide financial assistance which will be no more than US $500,000 per year up to five years.

As a result of the AID/Washington offer, the Coordinating Group on Forestry informed the participants to the 8th COFAF Meeting held in Bandung, Indonesia on May 5-9, 1981 its acceptance of the USAID/Washington offer to assist in the establishment of an ASEAN Center for the Development of Watershed Conservation Research and Management.

The ASEAN Center was located in the Philippines. In view of the staff service nature of the ASEAN Center, it was located at the University of the Philippines, College of Forestry, Los Baños, Laguna. The Project was named ASEAN-US Watershed Project during the 6th Project Steering Committee (PSC) Meeting.

GOP support for the Project was provided through BFD in terms of budgetary, staffing and support as required for operation of the Center at Los Baños and for other project activities in the Philippines. Project activities in other ASEAN countries were supported by the host government as arranged

between their Country Coordinators and the Project Director. On the other hand, AID support for the project was managed by the ALO in Manila with the assistance of the PLS at Los Baños. AID contracting, commodity procurement, controller and legal officers in Manila advised and assisted the ALO. AID/W backstopping (ASIA/TR, ASIA/PD and the Forestry Support Program RSSA of S&T/FNR) assisted in seeking candidates for the PLS position and as otherwise requested by the ALO.

The Project had a duration of five years (1984-1988) but a one-year extension (January to December, 1989) was granted to cater some additional functions.

Objectives of the Project

The Project hoped to promote collaboration and cooperation among ASEAN member countries in watershed conservation and management activities with the objective of upgrading manpower expertise and skills. Those who would be benefited directly from the Project were watershed management and research staff ranging from top policy-makers and planners, scientists down to technicians. The Project objectives were pursued through enhanced professional interactions; transfer of appropriate technology; exchange of information through symposia, workshops and seminars; manpower training through training courses, study tours, scholarships, and fellowships; and research support.

The Project would contribute substantially to the effective transfer of appropriate technologies on watershed conservation and management which will ensure optimal utilization and development of watershed resources and sound environmental management. The long-term beneficiaries of the technology transfer are the people who derive their living directly from uplands, and the people downstream and in the lowlands whose health and living depend on water reservoirs and on rivers and coastal fishing.

To accomplish the Project objectives, the Center had the following functions:

1. Collect, appraise, and disseminate research knowledge relevant to ASEAN upland watersheds.
2. Collaborate with the national watershed researchers and managers in the identification, design and implementation of priority watershed conservation research and management programs.
3. Develop country-specific watershed conservation training programs for mid-echelon scientists and technicians.
4. Prepare, promote and disseminate watershed conservation guidelines and information useful to other research and extension personnel working with landowners and farmers in the watersheds.

Project Organization

The Project is under the ASEAN ministerial Committee on Food, Agriculture and Forestry (COFAF). A Watershed Program Steering Committee (PSC) under COFAF oversees this project and other ASEAN watershed activities. The GOP has been designated host country for this project by COFAF. The then Bureau of Forest Development (BFD) was the GOP implementing agency. Country Coordinators for the Project were designated by each participating ASEAN government.

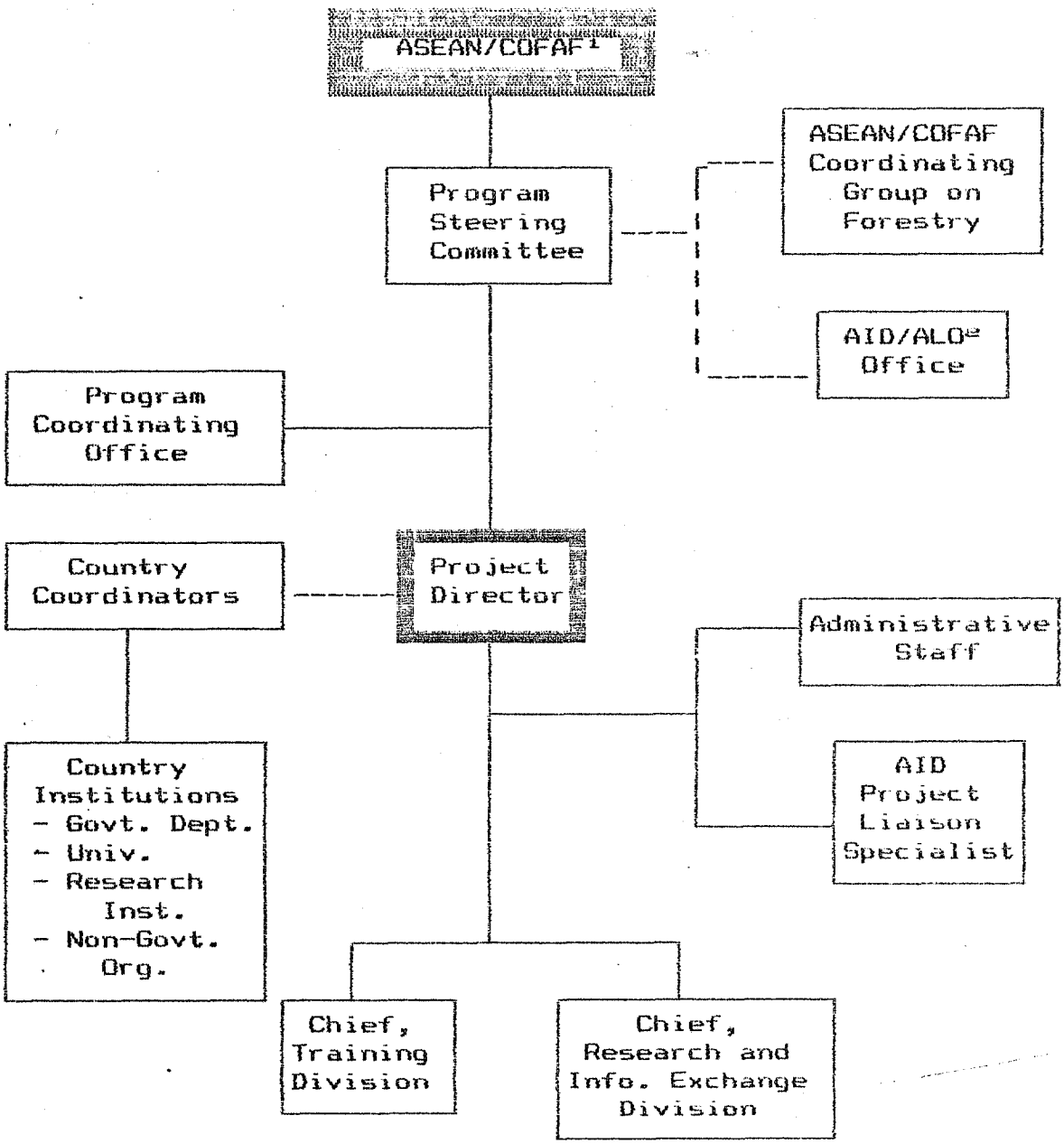
The organizational structure of the ASEAN-US Watershed Project is shown in **Figure 1**.

Project Components

The Project consists of five components intended to help establish a watershed management research network among the ASEAN countries of Brunei Darussalam, Indonesia, Malaysia, the Philippines and Thailand. The network would coordinate and assist research by participating national agencies and institutions on the common theme:

> "Watershed management research for productive and protective uplands with emphasis on sustained yield, soil erosion reduction and improved water quality, quantity and distribution".

Figure 1. Organizational Structure of the ASEAN-US Watershed Project.



[1] Committee on Food, Agriculture and Forestry
[2] AID ASEAN Liaison Office

The first project component is Project-Sponsored Activities consisting of symposia, seminars and workshop. This component will set joint research and training objectives, encourage information exchanges and improve skills of network participants.

The first management seminar was intended to provide the policy-makers with a common perspective of planning and management. The first symposium will examine watershed management research problems of the ASEAN Region, develop Project policy, set priorities, and identify specific training needs. This plan will be reexamined at a symposium to be held in late 1985. Scientists from other countries and donor programs will participate in the 1985 symposium.

Workshops and seminars combine formal and informal exchanges of information and application of theory to practice. The themes for the workshop and seminar will be identified at the symposium. Because of the diversity of study topics likely to be identified, the workshops and seminars could include as few as a dozen or so people to 100 or more.

The opportunity should be taken, when possible, to schedule activities in cooperation with other workshops and seminars being held on related subjects in the Region, or to send delegates to meetings held in other regions of the world. When possible, meetings should be combined with field trips demonstrating topics discussed.

The second project component is Training to raise professional qualifications and research capabilities of network participants. Training may be long - or short-term and is expected to take place within the ASEAN Region or in the United States.

Well-trained staff are needed for a research network to function effectively. A major objective of the project is to strengthen the skills of over 520 participants. Training activities are designed to meet the needs of four target groups:

1. Senior policy level: Steering Committee members, country coordinators, Los Baños Center professional staff, and the ASEAN/COFAF coordinating group on forestry.
2. Senior professsionals and managers: department directors, project directors, planning officers, and deans.
3. Professionals: researchers, field officers, teachers, and professors.
4. Technicians: mid-level support staff in watershed management research.

A variety of activities (**Table 1**) are planned to meet the needs of the groups, whose participation in training activities is shown in **Table 2**. These activities ranged from informal information exchanges at meetings (symposia, seminars and

Table 1. Description of Planned Project Activities

ACTIVITY	PURPOSE	DURATION	OUTPUT
I. Research Planning, Management and Information Exchange			
A. Management Seminars			
1. Advanced Management	1. Develop understanding of research policy formulation and decision making. 2. Improve skills in planning and development of an operational research program.	7 days	A practical understanding of research policy formulation, decision making any organization
2. Basic Management	1. Develop skills in systematic analysis 2. Develop skills in personnel management 3. Develop understanding of management by objectives.	7 days	Enhanced management skill of research leaders.
B. Symposia			
1. First Symposia	1. Develop policy 2. Identify research needs and set priorities 3. Identify training needs and set priorities. 4. Identify equipment needs and set priorities.	7 days	
2) and 3) Second and Third Symposia	1. Bring Watershed Specialists together to review research progress. 2. Exchange information between upland and lowland watershed management scientists. 3. Examine and redirect project activities.	7 days per symposium	1. Information exchanged scientists. 2. New directions for project. 3. Published proceedings.
C. Workshops and Seminars	1. Examine specific subjects in depth.	10 days per session	1. Increased scientific skills and knowledge. 2. Information exchanged among scientists. 3. Manuals on various watershed management research subjects.

Table 1 continued . . .

ACTIVITY	PURPOSE	DURATION	OUTPUT
II. Formal Technical Training			
A. Technical Shourt Courses	1. Improving research skills	2 weeks per course	1. Improved skills of researchers. 2. Published manuals.
B. Study Tours	1. To observe field application of research techniques. 2. Learning through on-the-job training.	1 month average per tour	1. Improved skills. 2. Broadened experience. 3. Technology transfer.
C. Long Term Scholarships	1. Further education of scientists.	One year or more	Increased scientific capability.
D. Short Term Scholarships	1. Further education of scientists. 2. Provide specialized staff for Project central office	6 months or less	1. Improved skills. 2. Broadened experience.

Table 2. Expected Level and number of participants in Project activities.

ACTIVITY	Groups and Their Participation (x)				
	Senior Policy	Senior Professional	Profes-sional	Techni-cians	Expected No. of Parts.
I. Research Planning, Mgt., and Infromation Exchange					
A. Management Seminars					
1. Advanced Mgt.	x				15
2. Basic Mgt.		x	x		60
B. Symposia					
1. First	x	x			30
2. Second	x	x	x	x	30
3. Third	x	x	x	x	30
C. Workshops and Seminars		x	x	x	175
II. Formal Technical Training					
A. Technical Short Courses		x	x	x	75
B. Study Tours	x	x	x	x	50
C. Long Term Scholarships			x	x	10
D. Short Term Scholarships	x	x	x	x	45
TOTAL					520

workshops) to formal academic degree programs.

Technical short courses will provide participants additional skills and up-to-date information. Study tours provide observations on problems, methods, and results of field activities in ASEAN countries and the U.S.A. These study tours will include on-the-job training by assigning participants as temporary members of projects at research stations.

Scholarships for long term training are planned to upgrade the education of watershed management research staff, and include opportunity for both graduate and post-graduate study: normally two years of required study beyond the B.S. degree for a masters degree; two years or more for MS holder to get Ph. D., and one-year for a Ph. D. postgraduate. The number of long term training participants is very limited compared to the need. Therefore, candidates will be carefully selected to fit the needs of a country's major watershed research objectives. Short term scholarships of up to six months duration provide opportunities for degree holders to be up-dated in a specific subject or get general orientation in a changing technical field. Often it will be advantageous to capitalize on existing or proposed courses.

Consultants will be used as needed for training activities. A follow up visit by a consultant several months after conducting a training activity can be included as needed to assess if techniques learned are being applied correctly.

The third project component is Research Support. This

support will consist of equipment and training in its use to improve and standardize data collection and analysis.

Procurement will be guided by the following criteria:

1. The equipment is to be used only for activities that fit the Project common theme.
2. Equipment will be provided only after plans for shipment, customs clearance, tax exemption and transport from ports of entry have been approved by AID.
3. Equipment that can be used in training activities and then utilized in research is to be given highest priority.
4. Non-training equipment is to be purchased in order of priority set by the first Project symposium.
5. Plans will be prepared and approved by the Project Director and AID for the use of equipment supplied and for training personnel in its use.

Small computers are an example of equipment that might qualify. The computers could be used for training personnel in data processing and then transferred to appropriate research use. Standard research equipment for monitoring meteorological and hydrological phenomena on experimental watersheds is another equipment type useful for training and research activities.

The fourth project component is a <u>Center at Los Baños,</u> Laguna, in the Philippines. The Los Baños Center will coordinate

network activities and will provide training and information exchange support activities. The Project Director and other professional staff will manage project activities from this center.

The fifth project component is U.S. Liaison and Consulting Services. An American Project Liaison Specialist will be contracted to help make AID inputs available to the project and to assist the Project Director. Consultants and resource persons from the U.S. and contracts for U.S. consulting, training and evaluation services will also be provided.

Project Budget

The arrangement for financing the Center was as follows:

1. Technical and Non-Technical Support to Center and Steering Committee

   The cost of normal operation of the Technical and Non- Technical support staff who acted as Secretariat for the Steering Committee and the Center was borne by the Host country.

2. Capital and Operational Costs of the Center

   The primary responsibility of financing the Capital and the Operational costs of the Center rested with the host country and the USAID.

AID funds will finance travel and per diem of participants in project activities and training; rent of facilities not available to host agencies and institutions; commodities, commodity-related services and training in use of commodities in support of research; training and ASEAN-US consulting services; honoraria and other costs of consultants and resource persons; compensation and travel expenses of a Project Director and two other professional staff of the Los Baños Center; vehicles, office equipment and imported supplies for the Los Baños Center; translating and publication costs of information exchange services; and other commodities and services approved by AID.

ASEAN Contributions to the project will include all other staff services; facilities, utilities and support services for the Los Baños Center; as available, facilities, transport and support services for project-sponsored activities and information exchanges; operation and maintenance of project vehicles, equipment and other commodities; services of Steering Committee, Country Coordinators, host agency and institution, professional and support staff; and all other resources required to carry out the Project effectively and in a timely manner.

The estimated cost by component of the Project is shown in **Table 3**.

Table 3. Estimated Cost by Component (In thousand US $).

Component	AID Cost	ASEAN Cost	Total
Project-Sponsored Activities (Symposia, Seminars, Workshops)	500	300	800
Training (Long and Short Term, in U.S. and within Region)	800	500	1,300
Research Support (Equipment and related training)	500	600	1,100
Los Baños Center (Project Administration and Information Exchange Support)	600	800	1,400
U.S. Services (Liaison and Consulting)	600	—	600
TOTAL	3,000	2,200	5,200

PROJECT ACCOMPLISHMENT

Project implementation officially started on January 2, 1984, although important activities were undertaken immediately after July 13, 1983 when the Project Grant Agreement was signed. These activities included, among others: screening and hiring of professional and support staff for the Los Baños Center; preparation of budget requests; coordination with USAID on vehicle/equipment procurement; screening of candidates for Project Liaison Specialist (PLS); and preparation of detailed work and financial plan for CY 1984.

Project Components

The ASEAN-US Watershed Project has five components, namely: Project-sponsored activities; Training; Los Baños Center; Research Support; and U.S. Liaison and Consulting Services.

Project-Sponsored Activities

This component included symposia, seminars, workshops, and other activities for regional participation in research planning and coordination, transfer of information and technology, improvement of skills, interchange with natural resource and socioeconomic researchers, and communication with the broader watershed research community. The list of Project-Sponsored Activities implemented by the Project is shown in **Table 1** of **APPENDIX 7.1.**

Symposium (1)

The Project was supposed to conduct three symposia over the five year period: the first symposium during the first year of Project operation, and the second and third, held in the latter part of 1985 and 1987, respectively. The purpose of the later symposia was to reexamine the plan spelled out during the first symposium. The Project implemented one symposium which was held in the Philippines in 1984, for senior policy-makers and professionals to define the scope, set priorities and directions, and formulate guidelines for Project activities. While there was only one symposium implemented, the purposes of the other two symposia were substantially achieved through the Country Coordinators' and Project Steering Committee Meetings.

The Project also sent ten participants to the International Symposium on Tropical Forest Hydrology and Application held in Chiangmai, Thailand on June 11-15, 1986.

Seminar (5)

The Project implemented five seminars: one in 1984, two in 1985, one in 1986, and one in 1987. It was participated in by 296 participants, 69% of whom were participants in the Roving Seminar held in the participating ASEAN countries in 1986.

(2)

Two proceedings were published as offshoots of the seminars on Researches for Productive and Protective Watershed Resources in the ASEAN Region held in Indonesia in 1984, and the Proceedings of the Seminar on Watershed Research and Management Practices held in Malaysia in 1985.

In addition to the above, the Project also sponsored the participation of ASEAN professionals to the following activities:

1. Conference, International Union of Forestry Research Organizations (IUFRO) in Ljubljana, Yugoslavia on September 7-21, 1986;
2. International Conference on Steepland Agriculture in the Humid Tropics in Kuala Lumpur, Malaysia on August 15-21, 1987; and
3. 5th International Soil Conservation Conference in Thailand on January 18-29, 1988.

Workshop

(6)

Six workshops were implemented by the Project: one in 1984, one in 1985, two in 1986, and two in 1988. Ninety-three participants from the participating ASEAN countries were sponsored by the Project in these activities.

(3)

Three workshop proceedings were published by the Project: the Proceedings on Standardization of Guidelines for Watershed Management Approaches and Researches in the ASEAN Region; the

Proceedings on Land-Use Planning in a Watershed Context ; and the proceedings on Roading and Development Activities in Relation to Soil Erosion and Sedimentation Control in Watersheds.

In addition to the above, the Project sponsored the participation of three watershed professionals to the Workshop on Integrated Basin Development and Watershed Management at Cipanas, Indonesia on March 24-26, 1986.

Likewise in 1988, the Project sent five participants to the Workshop on Soil and Water Conservation on Steeplands in San Juan, Puerto Rico on March 23-27. This activity aimed to come up with guidelines intended to develop strategies for the fragile mountainous tropical and subtropical land resources.

Training

This component aimed to improve the ability of individual participants to contribute to the ASEAN network and watershed management research through training in academic courses and/or research institutions. The list of Training Courses implemented by the Project is shown in Table 2 of **APPENDIX 7.1.**

Technical Short Courses

Manpower development has been the major emphasis of the Project. Significant accomplishments were made in this area, the Project being able to sponsor 446 instead of 180 participants or

248% of the targeted goal, by conducting 11 training courses over a period of five years. Of these, 184 or 41% were participants of the Roving Lecture on Watershed Rehabilitation held in the ASEAN countries in 1987.

Study Tours

The Project implemented one U. S. study tour, and one fellowship tour to the U.S. and two study tours in the ASEAN Region. Thirty six and 15 participants were involved in the study and fellowship tour, respectively, or 102% of the targeted goal of 50 participants.

The fellowship tour was dove-tailed with the World Forestry Congress in Mexico.

Long-Term Scholarships

Scholarship grants for graduate studies in watershed management were awarded to 11 professionals or 110% of the targeted goal (10 slots). Of the 11 scholars, one Ph. D. and two MS students pursued their studies in the U. S. and eight students (1 doctoral and seven masteral) in ASEAN universities.

Research Support

This component provided equipment and training on equipment use to improve and standardize data collection and analysis in

priority research activities. Procurement was guided by the following criteria:

1. The equipment is to be used only for activities that fit the Project common theme.
2. Equipment will be provided only after plans for shipment, customs clearance, tax exemption and transport from ports of entry have been approved by AID.
3. Equipment that can be used in training activities and then utilized in research is to be given highest priority.
4. Non-training equipment is to be purchased in order of priority set by the first Project Symposium.
5. Plans will be prepared and approved by the Project Director and AID for the use of equipment supplied and for training personnel in its use.

All requests in the proposal were reviewed on a technical basis by the Los Baños Center. All equipment were ordered by AID through its contracted Procurement Services Agent and shipped directly to each country.

Indonesia, Malaysia and Thailand received their complete equipment in 1987, almost four years after the Project has started. The set of equipment intended for the Philippines

arrived only at the early part of 1989, five years since the Project commenced operations. The corresponding list of equipment procured by each country is shown in **Appendix 7.7**.

The Research Support component of the Project experienced specific problems. It has experienced delays in the procurement of equipment. Due to the problem, the start of research activities in all countries was delayed.

Research equipment procurement was made through USAID's contracted Procurement Agent Services (FETCO). All the listed equipment which were submitted to and reviewed by the PLS were forwarded to AID/ALO. The ALO then prepared the corresponding documents (PIO/C) for the order and subsequent deliveries of these equipment to the recipient countries.

There were also some Philippines' research equipment which were purchased locally. These were first approved by the ALO and the necessary PIL issued before these equipment were procured.

Los Baños Center

The Los Baños Center served as the linkage of the Project to the ASEAN participating member countries. Project activities were managed from the Center. Publications and all appropriate support to implement project activities either emanated from or coordinated by the Center.

The Project was managed by a Project Director and assisted/supported by the other professional staff - a Deputy Project Director from May 1984 to December 1986; two Division Chiefs and a Project Liaison Specialist.

Project Administration

Project Professional Staff

Project Director. The Project Director, Dr. Severo R. Saplaco, is suitable and well-qualified for the post. Realizing the constraints that go with the job, he has performed well in coordinating the activities of the Project. He has demonstrated dedication and conscientiousness in his duties. His staff holds high regard for him and he has done an excellent job in boosting and maintaining the morale and prestige of the staff. He is diplomatic in his approach and has maintained a warm and cordial working relationship with the Country Coordinators, PSC members, AID personnel in Manila and other related agencies in the Philippines.

It is worth mentioning that despite the absence/non-reporting of the two Division Chiefs and Project Liaison Specialist during the initial start-up, the Project was able to implement its target activities on time. This was made possible through the exemplary dedication shown by the Project Director and his staff.

The Project Director served a total of 72 man-months.

Deputy Project Director. By virtue of the 4th PSC Meeting, the position of Deputy Project Director was created to assist the Project Director in the implementation of Project activities. Mr. Bernardo B. Jasmin was employed by the Project from May 1984 to December 1986 on a half-time basis. He served a total of 16 man-months.

The creation of a Deputy Project Director was a deviation from the approved organizational set-up of the Project. But inasmuch as the two Division Chiefs were not reporting yet, it was felt that the services of a Deputy Project Director was needed. The position of Deputy Project Director was abolished during the Ninth PSC Meeting.

Chief, Training Division. It took sometime for the Training Division Chief to report to the Project Office. The original nominee, Mr. Sittichai Ungphakorn of Thailand, failed to report for some personal reasons. Hence, the Project Office has to wait for replacement. Dr. Tongchai Wechasut, reported to the Project Office on April 1, 1986 up to January 15, 1989 in lieu of Mr. Sittichai.

He served the Project for 33.5 man-months. He was likewise capable and competent as Training Division Chief.

The Training Division Chief has performed all his functions/ duties as far as the implementation of trainings, and other activities are concerned. This was manifested by the timely implementation of target activities under his Division.

Chief, Research and Information Exchange Division. The Research and Information Exchange Division has experienced at least three turn-overs of Chief from 1985 to date.

Mr. Kadaroesman Achlil of Indonesia, was the first designated RIED Chief. He reported on June 3, 1985 but had to leave for his home country in March 1986 due to medical reasons.

Dr. Arturo S. Castillo from the Philippines, served as RIED Chief from July 22 to October 3, 1986 as a temporary replacement of Mr. Kadaroesman. His designation, however, automatically terminated upon the reporting of the nominated Chief from Indonesia, Ir. Hardjono Hardjowitjitro.

Like the other two professional staff, he is qualified, capable, and suited to his position. He served the Project from October 4, 1986 to July 31, 1989, or a total of 34 man-months.

Project Steering Committee

The Project Steering Committee was composed of one senior forestry official for each participating country, an AID representative and the Project Director. The two latter members served in an ex-officio capacity.

As was provided for in the First PSC Meeting, the coordinating country provided a secretariat and an adequate number of staff to assist the PSC in effectively carrying out its functions and responsibilities. One of these functions was their attendance to bi-annual meetings. During one of these meetings they approve the Annual Work and Financial Plan for the Project to follow.

All expenses incurred by the ASEAN countries during PSC Meetings were charged against their counterpart contribution to the Project.

Country Coordinators

Each Country Coordinator was nominated by each participating country. These nominees were then presented to and approved by the PSC members during their PSC Meetings.

Malaysia and the Philippines had experienced several turn-overs or changes in their Country Coordinators.

Thailand and Indonesia, on the other hand, have maintained their Country Coordinators.

It is worth mentioning that the Country Coordinators do not receive any compensation/allowances from the Project. Their governments pay for their salaries and other benefits due them. Payments received by the Country Coordinators related to the execution of their functions were chargeable against their country's counterpart contributions.

The Country Coordinators played an active role in Project implementation such as workshops, seminars, training courses etc. in their respective countries. They had active role in the selection of their countries' participants to Project activities.

An important function performed by the Country Coordinators was in the drafting of the Project's Annual Work and Financial Plan. They mediated with national institutions to reach a consensus for their country, with regard to their views on watershed management. These views were then collated by the Country Coordinators and presented during their annual Project Country Coordinators' meetings. During such meetings, the coordinators and the Project staff discussed priority activities for the year including budget and host countries for each specific activity.

On the whole, it could be said that the Country Coordinators have effectively contributed to the successful implementation of the Project.

Project Support Staff

The professional staff were in turn supported by a total of 28 staff. All these staff received salaries paid by the Government of the Philippines. The Center staff effectively contributed to the successful implementation of project activities.

Management Information System

The information exchange activities of the Project involved the exchange or sharing of information on watershed management, research results and training in the ASEAN Region. The main objective was to provide information on current practices, problems, research findings, and other issues useful to those involved in watershed management. The list of publications published by the Project appears as **Appendix 7.10**.

The Project exchanged information by publications, meetings and trainings. At least five types of publications were produced by the Project as stipulated in the Project Paper:

1. Translations into English of Thai and Bahasa Indonesia publications on watershed management.

   The translation services were aimed at making available research reports particularly Thai and Bahasa Indonesia, to a greater number of audience/readers. This aspect was fully availed of by Thailand where a

total of 15 research papers have been translated. The translated papers were unpublished as of this writing.

For the part of Indonesia, seven research papers were submitted to the Project Office for translation. With this listing were the names of three possible translators with their quotations. However, after the contract was awarded to the lowest bidder and the conformed copy of the contract received by the Project Office, there was no reported progress on the work.

2. A newsletter containing Project activities, watershed management activities of other participating network countries, abstract of publications, and articles on research techniques.

Since 1985, the Project has published 16 issues of newsletters (published quarterly). It carries information on project activities, abstracts of publications, and research results, and other information on watershed related activities.

3. Proceedings of Project symposia and other information exchange activities.

A total of six proceedings were published by the Project as outputs of the Project-sponsored symposia, seminars and workshops.

4. Guidelines, standardized methods, and other outputs of Project workshops and training activities

The Project through its library has gathered and compiled country papers/reports and lecture materials from the different training activities conducted.

The Project sponsored two workshops, the purpose of which were to standardize terminologies and watershed research methods. The outputs of these workshops were published as proceedings.

5. Annual directories of watershed projects, organizations and professionals in ASEAN countries.

In so far as this activity is concerned, this was not accomplished by the Project due largely to dearth of information for the purpose even with substantial efforts exerted by the Project Office to gather such information.

Other Accomplishments

1. Abstracts

To strengthen the information exchange support, the Project published the Abstracts of Watershed Management Research and Related Studies in the ASEAN Region. It was a compilation of 175 completed researches on watershed research and related studies in the ASEAN Region.

2. Sound-Slide Production

The Project also produced a sound slide documentary entitled "The ASEAN-US Watershed Project: a Milestone in Regional Cooperation on Watershed Management and Research." The documentary has been very useful in imparting information on what the Project is about and what it has done to address some common ASEAN watershed problems.

3. Manuals

The Project is in the process of publishing four manuals on watershed management. These manuals are:

1. Watershed Project Planning, Monitoring and Evaluation;
2. Watershed Instrumentation and Measurements;
3. Land Use Survey and Capability Classification for Upland Watersheds; and
4. Watershed Research

US Liaison and Consulting Services

Project Liaison Specialist (PLS)

The Project has had considerable difficulty recruiting a PLS. The first choice for the post was not available.

Dr. William D. Striffler, when finally chosen, as PLS did not report to the Project Office until October 4, 1985, that is,

one year and nine months after Project initiation. This delay defeated one of the major purposes of the PLS which was to assist in the critical and initial start-up and orientation of the Project. Several activities have already been implemented and the research proposals of each country have been submitted before his arrival. The PLS served a total of 32 man-months.

It was desired that the PLS spend a greater amount of time at the Los Baños Center, attending to technical tasks. The PLS spent a large amount of time on administrative matters for which a watershed specialty was not needed. He critically reviewed budget requests from the Project. Perhaps a good administrative assistant could have handled some of the workload or the work could have been delegated to a Project staff permanently detailed/assigned just for USAID matters. In this way, the PLS could have devoted more time and concentration on technical matters. It was observed that the PLS served more as an assistant to the ASEAN Regional Development Officer at USAID, Manila.

Perhaps, one of the main contributions of the PLS was the revision and selection of the research equipment, although he also had an important role in the overall orientation and direction of the Project. The PLS assisted in the development of workshops, seminars, and training topics; assisted in the selection of resource persons/consultants; and provided technical assistance to the Project and participating countries as well

during consultation meetings and planning workshops of the Project.

Consulting Services

Short term consultants to assist in the implementation of appropriate activities were employed by the Project. Through these consulting services the ASEAN member countries were able to avail of the services of ASEAN experts as resource persons.

During the Roving Seminar in 1986, two U.S. and two ASEAN experts were contracted by the Project as resource persons. Likewise, the Project hired the services of one US and four ASEAN experts to prepare the guidelines on the preparation of manuals. These experts prepared the outlines, format, budget, and procedures in writing the six proposed manuals as well as suggested potential authors and schedule of implementation.

The Project selected four (three US and one ASEAN) authors to write four manuals on watershed management.

In April 1987, the Project also hired the services of two U.S. and three ASEAN experts for their evaluation services to examine to which extent the Project purpose was achieved and if assumptions about the Project were valid. Their main task was to assess the efficiency with which Project activities were carried out. The evaluation served as the principal basis for a decision

to continue the Project for another one year (up to December 31, 1989).

For the consultancy services, the Thai consultancy program on the installation of research equipment and training in their use was completed in May 1988. This was undertaken by the Asian Institute of Technology and the Royal Forest Department.

Budget Releases and Disbursement Scheme

The Goverment of the Philippines (GOP) has released a total amount of P6,228,102.50 to finance the operations of the Los Baños Center. Of this amount, P6,026,944.97 was expended. These funds were used to pay the staff salaries, purchase of supplies and materials and other support services.

To some extent, there were delays in the release of these funds. However, despite some delays, the Project was able to implement its activities generally on time.

GOP fund releases from 1984 to 1986 were transferred through Journal Vouchers issued by the National Treasury to the University of the Philippines at Los Baños (UPLB) for disbursement. Thus, all records pertinent to the disbursement of these funds were kept by the UPLB. The Project had to submit to UPLB all requests for payments/ reimbursements.

In 1987, when the Treasury Checking Account for Agency (TCAA) was implemented, all GOP releases were directly made to

the Project through its Deputized Disbursing Officer (DDO). It was the DDO together with the designated budget/accounting staff who took charge of the disbursements. It was then that the Project Office had a direct supervision on the disbursement of GOP funds.

When still a new disbursement scheme was implemented in 1988, the Project Office retained necessary supervision on the disbursement of its counterpart funds. Still, the DDO/Budget/ Accounting staff were maintained.

As to the Grant funds, USAID/Manila had the overall supervision in earmarking and disbursement of these funds. As such, disbursements were covered by AID rules and regulations. Following these procedures, funds intended for a particular activity are committed only after an approved Project Implementation Letter (PIL) was issued by the ALO.

In these PILs, nature and amount of expenses were indicated. These PILs, therefore, served as the basis for fund disbursements. Any deviation, particularly increases in the amounts previously committed had to be approved by the ALO and the Controller's Office first. Likewise, decommitment of excess funds underwent the same channel.

Some cash advances were granted to the Project Director and to the Country Coordinators to facilitate project implementation. These advances were liquidated upon completion

of the activity. Whenever disallowances were incurred, necessary refunds were made through the Project Director.

In 1984, the Project Office was granted a Cash advance by AID in the amount of P1.638 M to pay for the expenses to be incurred in the implementation of 1984 activities. However, due to some unavoidable circumstances, there was a considerable delay in its release, significantly defeating the purpose for which the advance was made. The project office then made the necessary representations to seek alternative approaches to effectively use grant funds so as not to hamper the implementation of Project activities.

At the same time, requests were made for the reprogramming of the advance of P1.638 M. Part of this amount was then used to purchase Office equipment/furniture for the Los Baños Center.

To avoid further delays in the release of grant funds, the Project Office, upon advise by AID, resorted to the direct payment method. This approach has helped improved project implementation.

Procurement

Local procurement of equipment and facilities for the Los Baños Center was made in 1985. UPLB rules and regulations were followed pertaining to these procurement. This was so because UPLB was tasked with the disbursement of Project funds that time.

These local purchases were also sanctioned by AID through PIL No. 4. In addition to the local purchases, there were some facilities which were purchased by AID through its Procurement Services Agent from the US. One of these purchases was the three Project vehicles --- one Ford Sedan and two Clubwagons.

A list of these equipment/facilities, which were all paid for by the Grant funds is shown in **Appendix 7.6**.

Reporting

As far as reporting of Project status was concerned, the Project submitted quarterly, mid-year and annual accomplishment reports. Copies of reports were given to PSC and PCC members, AID and Project Desk Officer. These reports particularly the mid-year and annual reports were presented during PSC Meetings and formed part of the Meeting report.

In 1988, in addition to the usual reports, financial releases and expenditures were periodically monitored. This was in compliance to DENR Special Order no. 370, Series of 1988.

Problems Encountered

Project-Sponsored Activities

Some of the problems experienced by the Project are the following:

1. Limited Time for the Preparation of Activities

   The limited time to prepare for Project activities due to the very short period between the approval of the activity budget by USAID and the implementation of the activities resulted to many difficulties, including uncertainties on the amount allocated for each component of the activities. This problem affected the preparation of training materials. Changing honoraria rates and delayed payment of resource persons made the organizers feel hesitant to invite highly qualified lecturers from their respective countries.

2. Selection of Participants

   The diversity in the level and interest of the participants within the same activity has affected the quality of training results. Although guidelines on the appropriate background and present position of prospective candidates were distributed by the Project prior to every training activity, these guidelines were not fully observed by the national institutions. And even though the participants were enthusiastic to gain

new knowledge and take advantage of the opportunities, some were not fully prepared to meet the requirements of the training courses.

3. Selection of Topics

The selection of topics was usually made during PCC meetings. Again, due to limited time and technical details on specific topics to be discussed, the quality and substance of the activity output may have not been fully achieved. Ideally, a technical working group to work on a specific topic would be necessary before PCC meetings.

4. Achievement Strategy

Efforts were made to standardize watershed management terms, practices and techniques for the ASEAN Region. This was started during the two workshops on standardization organized by the Project. The expected standardization may not be felt now or the years ahead. Nonetheless, the critical work/headstart has been made by the Project. It is hoped that through the network of professionals involved by the Project, the efforts along this line will continue.

Since courses were conducted in English, selection of participants may have been biased towards

participants knowledgeable in the language. This, scheme may have deprived equally if not more deserving candidates who are not proficient in English.

Project Professional Staff

The Project Office has not hired consultants who should have conducted follow-up visits several months after implementing training activities to assess if techniques learned were being applied correctly. Hiring of consultants to perform this job was not included as an activity in the annual work and financial plan.

Another problem was the delayed payment of professional staff allowances.

There was also a major problem related to the designation of a Deputy Project Director, that is, which agency -- AID or FMB -- will pay his allowances and by how much. It appears in his contract that he shall receive a monthly allowance of US $500.00 but the specific paying agency was not mentioned. Repeated representations were made with USAID regarding the payment of his allowances but to no avail.

Project Support Staff

There was uncertainty in the tenure of staff employment. Contracts of employment of the Project staff were renewed on an annual basis. Had it been made for a period of five continuous

years co-terminus with the Project, the staff would have felt more secure as to their tenure.

Another problem experienced by the staff is delayed payment of salaries. However, as project implementation progressed, this problem was significantly minimized.

On the whole, it was expected that problems during project implementation would be experienced. However, despite the problems, project implementation was successfully undertaken to achieve project goals.

IMPACTS OF THE PROJECT

The ASEAN-US Watershed Project is expecting long-term impacts. Most of these impacts may be intangible while some can be quantified, though difficult.

Technical Impact

The Project provided the ASEAN Region with some manpower development, information exchange services and research equipment on watershed management. Almost one thousand watershed professionals in the Region participated in the various technical training courses, symposia, study tours, workshops, fellowships and graduate scholarships organized and sponsored by the Project. Through these numerous activities implemented in the ASEAN Region, it was hoped that the competence and expertise of the involved professionals are enhanced for more effective, sustainable and productive management of ASEAN watersheds.

The information exchange component of the Project provided a very important means to enhance the transfer of appropriate technology and recent development on various aspects of watershed resources management. It is envisioned that thru newsletters, proceedings, abstracts and the watershed manuals, the latest developments in watershed resources management are effectively disseminated and used by appropriate professionals for the overall conservation of watershed resources in the Region. In

short, the technical expertise and competence of professionals involved in the Project are expected to be enhanced to effectively manage the watershed resources in the Region.

Socioeconomic Impact

The trained and informed manpower may have better understanding of various watershed management issues compared to less trained or informed manpower. It is expected that the trained manpower would lead in terms of conserving/preserving the socio-cultural heritage consistent with effective watershed resources management. Recognizing enhanced expertises thru manpower training would undoubtedly bring about positive social impacts in terms of enhanced staff competence that may ultimately lead to more productive staff.

Promotions after technical training would provide added impetus on the social desirability of enhanced expertise acquired from training.

Because professionals directly interact and exchange relevant information/experiences during project sponsored activities, the opportunity to learn the socio-cultural character/behavior of ASEAN participants is greatly enhanced. There is also a better chance of more productive interactions among regional project participants because of lesser language barrier.

With the application of better watershed conservation measures because of trained manpower, it is expected that the watersheds are better managed to be more productive and sustainable. With increased productivity, more benefits/ income would be expected to accrue to the people. Inevitably, their economic well-being would be improved. In general, the socio-economic well-being of all people directly or indirectly involved in the activities of the ASEAN-US Watershed Project is favorably influenced because of the far-reaching impacts and externalities brought about by trained manpower, enhanced information exchange and transfer of appropriate technologies in watershed management.

Undoubtedly, with better trained manpower, research results, enhanced information exchange and transfer of appropriate technologies in watershed management resulting from the activities of the ASEAN-US Watershed Project, ASEAN watersheds and its resources are expected to be better managed and conserved. Consequently, these watersheds will be more productive and sustainable. With productive and sustainable watersheds, the beneficial impacts on the environment are far reaching. There would be less accelerated soil erosion, less flash flooding and drought within the limits of a productive and vegetated watersheds. In other words, the hydrologic behavior of the productive and vegetated watersheds in terms of extreme values of hydrologic events are tempered. Finally, the micro-

climate of a vegetated watershed becomes favorable to soil-water-animal and other biophysical relations. This favorable condition would also bring about beneficial environmental impacts.

CONCLUSION

Validity of the Project Purpose

The Project purpose as originally envisioned was to start a watershed management research network among ASEAN countries to coordinate research in participating agencies and institutions towards the common theme: Watershed management research for productive and protective uplands with emphasis on soil erosion reduction and improved water quality, quantity and distribution.

The Project Paper (PP) briefly described the upland watershed problems of the ASEAN countries. Although the problems were not analyzed in detail, there is no reason to object to the alarming picture that was presented.

During Project design, it was believed that a watershed management network should focus more on research to address watershed management problems in the Region. However, during Project implementation, modifications of Project emphasis were inevitable to respond to more priority needs within the Region. Such changes were the result of careful evaluations of pressing concerns and priorities identified during consultations with appropriate authorities/professionals. Likewise, certain assumptions which led to the design of the Project were no longer as responsive as compared during Project inception. Implementation, therefore, of the Project has not fully adhered to its research orientation as stated in the PP, but has equally

if not given more emphasis to more training and information exchange related to watershed resources management. It was felt that upgrading the knowledge and skills of the ASEAN professionals in watershed management not only through research but also through training in watershed planning, watershed rehabilitation, socioeconomic and environmental impact assessment, etc. was needed. It was also felt that it was necessary to intensify the dissemination of useful information on watershed management. Hence, the positive and effective re-orientation/modification of Project emphasis.

In order to maximize the benefits from this Project, an evaluation team (composed of five members from the US and the ASEAN countries) recommended several activities to be implemented during the remaining years of operation (starting late 1987 to 1989) in 1987. A number of these recommendations were incorporated in the Project's succeeding annual plans, notable of which was the development of manuals on tropical watershed management.

The evaluation team felt that the most feasible strategy was to reduce the breadth of the Project by utilizing the remaining resources and time on information exchange and on training. The Project should also exert efforts to ensure the rapid deployment and effective use of the research equipment. The Project should develop watershed management manuals that could be used by university students, professionals and technicians.

Training subjects should also be scoped down to a few important subject areas, the knowledge of which will help solve high priority watershed management problems. Those countries with the most suitable facilities or expertise in a particular subject chosen should provide the training on a repetitive basis.

In order for the Project to utilize the network to the fullest extent possible, appropriate changes should be reflected in some aspects of the design. Roles of cooperating institutions should be more specific and strengthened if lasting links are to be achieved within the Region. If these corresponding adjustments will not be incorporated, it is likely that activities will not be focused on the prioritized needs. It must be emphasized that the strength of the network lies on the singleness and clarity of purpose - a common vision and interest of the watershed research and management thrusts, alongside a solid commitment of the participating members.

Evaluation of Project Implementation and Operating Outcomes

Implementation Capacity of the Cooperating Agencies

A Memorandum of Agreement was signed by the BFD, FORI and UPLBCF as cooperating agencies of the Project, each having specific functions and contributions.

The institutional linkages among these cooperating agencies of the Project needed some strengthening. The Memorandum of Agreement among the cooperating agencies, although in effect

since the start of the Project has not fully operationalized a system of interchange to facilitate publication by the Project of watershed research and development activities available in the country. Although the Memorandum of Agreement was specific enough as to define the functions of each cooperating agencies, solid commitment on the part of each agency was insufficient. This situation could be attributed to the limited budget of these agencies earmarked to support Project implementation.

Scheduling/Procurement of Research Commodities

Procurement of research equipment by the Project went beyond the targeted schedule. Two prominent reasons could be attributed to the delay; firstly, was the revision of the equipment lists/proposals and secondly, was the long contracting period. The revised list of equipment were submitted to AID/Manila logistics office only in May 1986 (except for the Philippines which submitted the final list sometime in May 1987). This was almost during the mid-of-project life. Delivery of equipment started in mid 1987 up to early 1988 (except for the Philippines which arrived in early 1989).

The contracting period which took more than a year complicated the situation. Since only the U.S. and the ASEAN countries were eligible sources, selection of equipment tended to be narrow in terms of availability and design.

In short, the research component of the Project was not fully implemented on time due largely to the delayed procurement of research equipment.

Role of External Funding Agencies in Project Direction

It was perceived that sufficient reviews of Project operations were conducted during regular PCC/PSC meetings and an evaluation meeting. A perceived weakness of the evaluation meeting was that some representatives tended to function more as political representatives rather than as technical advisers. This was understandable since drastic actions by some members may have some negative implications to the other countries. Inevitably, such system of evaluation may not be very helpful and effective for the Project with regard to providing the proper direction and guidance.

Special Conditions/Operating Forecasts

During the six years of Project operation, some of the most notable problems encountered were the following: changing administrative procedures particularly fund transfers, causing delays in the release of Project budget; delayed submission of research proposal and list of research equipment; language difficulties among some participating member countries and communication/linkage delays among the participating member countries due largely to distance among the countries. These

factors affected the timely implementation of Project activities.

To minimize the adverse effects of the above factors, activity planning was made well in advance and an open line with all the Country Coordinators was maintained. This was facilitated by the regular interaction among all concerned during the implementation of Project activities. Continuous and frequent liaisons and consultations with the appropriate agencies by Project staff expedited transactions and provided guidance on administrative matters. As a result, important administrative problems were resolved.

Despite the above problems, the Project managed to implement most if not all of its scheduled and approved activities. The competence and dedication of the Center Staff and the Country Coordinators as well as the commitment, dedication, and cooperation of participating ASEAN professionals and agencies made possible the realization of Project outputs.

Although the Project was not able to fully carry out its mission as envisioned in the PP, it did address other equally important regional concerns in the field of watershed management, foremost of which was a regional cooperation in manpower development. The almost two-fold increase in the number of participants who were sponsored by the Project in its various activities; the various research literature which were shared among the participating member countries; the exchange of information via publications, symposia, workshops, training

courses, seminars, etc. and the equipment support in the form of commodities and commodity related services provided to the ASEAN participating countries, are quantifiable outputs and easily verifiable indicators which the Project has accomplished during its six years of operation. Equally important outputs include linkages of Project activity to national watershed agencies; trained manpower and increased cooperation among ASEAN participating countries in watershed management.

There is a long-term investment by the ASEAN countries in the field of watershed resources research and management through the ASEAN-US Watershed Project. The ultimate beneficiaries from this investment are the peoples of the ASEAN Region themselves. Among the lasting benefits from this investment are trained manpower in watershed resources management. It is hoped that through these trained manpower, the upland/watershed areas of the ASEAN Region are better managed and developed for the socioeconomic well-being of its people and overall protection of the environment. It can be said that ASEAN and the United States of America, through the ASEAN-US Watershed Project, have contributed meaningfully to the Region's continuing commitment to preserve/conserve the natural watershed resources for the benefit of mankind.

ACKNOWLEDGMENT

On behalf of the Association of Southeast Asian Nations, the ASEAN-US Watershed Project wishes to express its gratitude to the United States Agency for International Development for rendering its full support in terms of financial and technical inputs that paved the existence of this Project for six consecutive, fruitful years. It likewise extends its deepest appreciation to all the professionals and other personalities, whose names cannot be mentioned because of space limitations, who took active part in realizing the common goal by which this noble endeavor stood firm.

Many more works remain to be done and learned to protect the ASEAN watersheds from the stress of man's economic aspirations; while harnessing the full lights of hope productive and sustainable potentials of ASEAN watersheds. What all of us need is continuing hardwork and perseverance. With this note, we would like to set sail with a fervent hope that this Project provided the necessary headstart to ensure ensure the perpetual existence of productive and protective ASEAN watersheds.

APPENDIX 7.1

LIST OF ACTIVITIES AND BUDGET

APPENDIX 7.1: List of Activities and Budget.

TABLE 1: PROJECT-SPONSORED ACTIVITIES

ACTIVITY	DATE	VENUE	NUMBER OF PARTICIPANTS	COSTS		
				USAID	ASEAN	TOTAL
I. PROJECT-SPONSORED ACTIVITY						
1. Symposium on Watershed Management Conservation for Productive and Protective Uplands in the ASEAN Region.	June 25-29, 1984	CFED, UPLB-CF College, Laguna Philippines	29	9,919	10,854	20,773
2. Seminar on Researches for Productive and and Protective Watershed Resources in the ASEAN Region. Region.	August 27-31, 1984	Forestry Training Center, Bogor Indonesia	21	29,903	28,383	58,286
3. Workshop in Standardization of Guidelines for Watershed Management Approaches and Researches in the ASEAN Region.	Nov. 21-30, 1984	Chiang Mai Palace Hotel, Chiang Mai Thailand	21	34,336	17,562	51,898
4. Workshop on Land-Use Planning in a Watershed Content Management	April 17-24, 1985	Forestry Center Jakarta, Indonesia	20	18,289	27,742	46,031
5. Training Seminar on Advanced Management Techniques	Sep. 23-27, 1985	Hotel Equatorial Singapore	28	40,427	10,170	50,597
6. Seminar on Watershed Research and Management Practices (Theme: "Towards More Effective Watershed Management"	Oct. 28-Nov 1, 1985	Centre for Extension & Continuing Education Universiti Pertanian Malaysia Serdang, Selangor Malaysia	19	19,237	17,597	36,834
7. Workshop on Roading and Development Activities in Relation to Soil Erosion and Sedimentation Control in Watershed	July 21-25, 1986	Kartika Chandra Hotel, Jakarta, Indonesia	14	16,074	21,679	37,753
8. Roving Seminar on Watershed Research and Mgt. Practices	Aug 13-Sep.5, 1986	ASEAN	206	12,922	56,457	69,379
9. Workshop on Standardization and Tech. Transfer of Watershed Research and Mgt. Tech, Practices and Terminologies	Oct. 26- Nov. 1, 1986	Chiang Mai Hill Hotel Chiang Mai Thailand	20	18,305	14,906	33,211

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TABLE 1 Continued...

ACTIVITY	DATE	VENUE	NUMBER OF PARTICIPANTS	COSTS		
				USAID	ASEAN	TOTAL
I. PROJECT-SPONSORED ACTIVITY						
10. Workshop on Integrated Basin Development and Watershed Mgt.	Mar. 22-26, 1986	Cipanas, Indonesia	3	1,473	635	2,108
11. International Union of Forestry Research Organizations	Sept. 7-21, 1986	Ljubljana, Yugoslavia	5	18,534	4,347	22,881
12. International Symposium on Tropical Forest Hydrology	June 11-15, 1986	Kasetsart University Bangkok, Thailand	12	7,916	13,648	21,564
13. Seminar on Watershed Project Management	March 23-27, 1987	Rama Gardens Hotel Bangkok, Thailand	22	21,170	10,667	31,837
14. Workshop on Soil & Water Conservation on Steeplands.	March 23-27, 1987	San Juan, Puerto Rico	5	18,926	2,790	21,716
15. International Conference on Steepland Agriculture in the Humid Tropics.	August 15-21, 1987	Kuala Lumpur, Malaysia	18	16,816	8,677	25,493
16. Planning Workshop on the Future of ASEAN Cooperation on Watershed Management	Jun. 1-3, 1988	Kartika Plaza Hotel, Jakarta, Indonesia	12	11,423	15,706	27,129
17. Planning Workshop on the Development of Manuals in Watershed Management	Apr. 10-16, 1988	College, Laguna Philippines	5	4,215	5,792	10,007
18. 5th Integrated Soil Conservation Conference	Jan. 18-29, 1988	Bangkok, Thailand		5,524	18,900	24,424

APPENDIX 7.1: List of Activities and Budget.

TABLE 2: TRAINING COURSES

ACTIVITY	DATE	VENUE	NUMBER OF PARTICIPANTS	C O S T S		
				USAID	ASEAN	TOTAL
II. TRAINING						
1. Study Tour of ASEAN Watershed Management, Research & Conservation Projects	Oct.21-Nov. 19, 1984	Indonesia, Malaysia, Philippines & Thailand (ASEAN Countries)	8	22,515	24,326	46,841
2. Training Course on Watershed Management and Environmental Monitoring	Feb. 18-Mar. 8, 1985	IFC, UPLB-CF College, Laguna Philippines	23	40,427	18,793	59,220
3. Fellowship Tour on Watershed Management and Development Projects/World Forestry Congress	June 7 - 30/ Jul. 1-13, 1985	United States	12	53,369	22,915	76,284
4. Study Tour on Watershed Instrumentation, Design, Data Monitoring and Analysis	Aug.22-Sep.13, 1985	University of Arizona East-West Center	16	57,505	11,063	68,568
5. Training Course on Watershed Mgt. and Environmental Impact Assessment and Monitoring	April 7-25, 1986	College, Laguna Philippines	19	24,110	22,541	46,651
6. Training Course on Watershed Research & Management	Jun.22-Jul.5, 1986	CECE, University Malaysia Serdang, Selangor, Malaysia	20	10,676	32,157	42,833
7. Study Tour of ASEAN Watershed Research and Development Projects	Jun.15-Jul.14, 1986	ASEAN COUNTRIES	12	18,305	23,174	41,479
8. Research Training Program	Nov. 17-26, 1986	ASEAN	12	6,209	14,385	20,594

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TABLE 2 continued . . .

ACTIVITY	DATE	VENUE	NUMBER OF PARTICIPANTS	COSTS		
				USAID	ASEAN	TOTAL
II. TRAINING						
9. Roving Lecture on Watershed Rehabilitation	Nov. 3-6, 1987	IFC, UPLB-CF College, Laguna Philippines	48			
	Nov. 9-12, 1987	Pattaya Palace Hotel Pattaya, Thailand	67	15,786	75,354	91,140
	Nov. 16-19, 1987	Forestry Training Unit Kepong, Selangor Darul Ehsan, Malaysia	39			
	Nov. 23-26, 1987	Solo, Indonesia	30			
10. Training Course on Soil Erosion and Water Yield	June 9-16, 1987	Baguio City Philippines	30	28,520	15,702	44,222
11. Training Course on Statistical Hydrology	Aug. 24-31, 1987	Institute of Hydraulic Engineering Bandung, Indonesia	28	30,580	21,934	52,514
12. Training Course on Financial-Economic Analysis and Determination of Social Impacts of Watershed Management Projects	Mar. 13-26, 1988	Bangkok, Thailand	23	34,445	19,140	53,585
13. Training Course on Soil Erosion/ Sedimentation Control & Monitoring	Jun. 16-27, 1988	National Arts Center Los Banos, Laguna Philippines	20	18,486	25,416 *	43,902
14. Training Course on Statistical Hydrology	Oct. 9-22, 1988	Gadjah Mada University Yogyakarta, Indonesia	20	*	9,483 *	9,483
15. Training Course on Computer Applications in Watershed Management	Nov. 13-20, 1988	Kuala Lumpur, Malaysia	20	14,220 **	14,277 **	28,497

* Excluding Indonesia. The Project only sponsored the participation of ASEAN delegates.
** No/Incomplete Financial Report.

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8.	Lilia S. Montecillo	- -do-
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14.	Felicidad U. Matundan	- -do-
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17.	Ruel B. Mendoza*	- Audio-Visual Technician I
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Larena, Siquijor

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Cabanatuan City

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LIST OF EQUIPMENT
(as of CY 1989)

A. Purchase from US

NO.	QUANTITY	DESCRIPTION	REMARKS
1.	1	BOGEN, mdl. CT 60-60 WATT PA Amplifier operates on 220/60HZ, with 4 mike Vol. Aux1.aux2 (fader) Master vol. 5 equalizer filter slide controls, compressor power switch	Stolen
2.	10 2	Shure, mdl. 545SD Microphone Unidyne, mdl. 515SB Microphone	6 pieces stolen 1 piece unaccounted
3.	10 19	Shure, mdl. A95U, Line matching transformer Shure, mdl. A95UM, microphone modifier	
4.	10 15	Shure, mdl. A95UF, Line matching transformer Shure, mdl. A95UFM, Microphone modifier	5 pieces stolen
5.	5	ATLAS, mdl. Gn-13 13" flexible gooseneck	
6.	5	ATLAS, mdl. PB-1, Microphone boom with microphone stand	
7.	5	ATLAS, mdl. DS-7, Padded Desk Stand	
8.	3	PASO, mdl. TA-1 Megaphone	
9.	4	PASO, mdl. DS-75 Speaker	
10.	2	KODAK, mdl. 1470137 AV 3102ARF Slide Projector, ectagraphic B-2Ar with: Ectagraphic FF zoom lens, 100-150 mm f/3.5 remote control, operates on 220V/60HZ	

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NO.	QUANTITY	DESCRIPTION	REMARKS
11.	5	Slide trays for 80 slides	1 piece stolen
12.	1	BUHL, mdl. Mark IV Opaque projector with Feedomatic, Pointex heat filter assy., Tempered glass pressure plate dust cover operates on 220V/60HZ	
13.	1	DA-LITE mdl. CHALLENGER, Portable Tripod Projector screen, glass beaded, Heavy-duty, 70" x 70"	
14.	1	Apple IIe Microcomputer 128 K	
15.	1	Duo disk II Drive A9M0108 S/N 422715	
16.	1	Duo disk II Controller A2T0108	
17.	1	Apple II Green Monitor S/N 10255117 Model A 3M0039	
18.	1	Dot matrix printer 15" Okidata 82 S/N 4617262	
19.	1	Printer interface card (PRI)	
20.	1	Z-80 CP/M Card softcard IIe	
21.	1	Voltage regulator Tripp-lite IBAR 2-6	
22.	1	Printer cable RS1000	
23.	1	Numeric keypad R620-002	
24.	1	Plotter Amplot II S/N 102517	
25.	1	Computer care kit Wilson Jones 0100	
26.	1	Apple II Super Serial Card BCGRA2	

NO.	QUANTITY	DESCRIPTION	REMARKS
27.	1	220V Transformer	
28.	3 1	Flip and File (2/22/85) Diskette Storage Box	
29.	2	Beseler Lens board	
30.	2	Beseler, 4 x 5 negative carrier #8321	
31.	2	Enlarging lense, Color PRO	
32.	1	Condenser lamphouse, 45 MX	
33.	2	Beseler 45MXII Film enlarger with basnboard, S/N EN71436	
34.	1	Beseler Dichro Colorhead, 45S S/N 31-42295	
35.	10	Binoculars	5 pieces stolen 2 pieces loaned
36.	2	Stereo plotter	
37.	1	BUHL model 80/40 overhead Projector with dust cover and Roll feed Attachment 220V/60HZ Serial No. 4325	
38.	2	Clubwagon Ford a. Chasis S/N 2115EHB80466 b. Chasis S/N 2117EHB80467	
39.	1	FORD Tempo L 5, Sedan 5 dr. Chasis No. 1BRBEK291748	

B. Purchased from the Philippines

NO.	QUANTITY	DESCRIPTION	REMARKS
1.	1	Typewriter, Manual, Ideal 18" carriage, complete with manual and dust cover S/N 443546	
2.	3	Fan, electric, standard 16 blade with stand	
3.	10	Calculator, Scientific FX-550	3 calculators not serviceable
4.	1	Calculator, Scientific FX 350	
5.	3	Fan, Rota Aire, 3D	
6.	1	Calculator, Adding HR 121	
7.	1	Machine, duplicating "Gestetner" model 1560 41B4486, electrically and manually operated	
8.	1	Typewriter, Remington, manual 20" carriage model 150 with complete accessories	
9.	1	Copier "Gestetner" model 200BRE with cabinet S/N 50J1596	
10.	1	H14g with Half ream Guillotin with guard	
11.	5	Tables, Office 30" x 60" with 6 drawers double pedestal, narra plywood with glass top BW21-AN	
12.	25	Tables, Office 30" x 60" with 6 drawers double pedestal narra plywood with glass top #3 DIA	

NO.	QUANTITY	DESCRIPTION	REMARKS
13.	1	Table conference 48" x 120" design rectangle narra plywood, without glass top	
14.	17	Chair, conference stock no. P101B14	
15.	1	Chair, executive, stock 30A	
16.	25	Chairs, leatherette	
17.	1	Sofa, visitor with 2 sidetables and 1 center table (P)	
18.	5	Bookshelves, with adjustable shelves (p)	
19.	4	Chairs, executive Stock No. 202A	
20.	1	Transformer, heavy duty automatic, stavolt 5, stavolt 220/100V 2 KVA	out of order
21.	1	Typewriter, electric memory, Canon AP 500, 32 KB 20 character display automatic correction memory, multifunction keyboard with complete accessories	
22.	1	Typewriter, IBM Selectric III model 6705353 with Serial No. 2120171, dual pitch 15.5 carriage with dust cover instruction manual	
23.	5	Table, typewriter 20" x 40", 4 drawers narra plywood with glass top	
24.	1	Scanner, electric scanner "Gestetner" model (1593 S/N 1024/03580)	
25.	1	Binder, Gestetner Velo-bind, 100 punch model 100 S/N 20X032149	

NO.	QUANTITY	DESCRIPTION	REMARKS
26.	1	Cabinet, steel filing drawers, with safe of imported lock, wrinkle finished with lock	
27.	4	Cabinet, steel filing drawers with lock wrinkle finished	
28.	1	Cabinet, steel storage with 5 adjustable shelves wrinkle finished with lock and keys	
29.	1	Airconditioner, carrier 2 HP Serial No. 1567, Comp S/N 02905 Fan Motor S/N 65278	
30.	1	Stereo radio cassette recorder, Sanyo model 78-78 two speakers with counter	
31.		Multi-tester "standard Model at 3607R	
32.	1	Soldering iron (30W)	
	1	Soldapult	
	1	Screwdriver (negative, positive combined)	
	1	Plier long nose	
	1	Plier side cutter	
	1	Plier cutter	
	1	Allen Keyornex	
	1	Transformer 1.5 2-12 volts 1 A	
33.	2	Casio HR 121 CML Adaptor 6 V SN 26806 & 26807	

C. PURCHASED FROM THE PHILIPPINES DIRECTLY PAID BY USAID

NO.	QUANTITY	DESCRIPTION	REMARKS
1.	1	IBM PC/XT SYSTEM unit 256 KB Diskette drive, 1 x 20 MB Fixed Disk, keyboard, Guide to Operations and Basic Manuals S/N 6017033	
2.	1	Takan KX 21 Monochrome Display S/N W721380	
3.	1	Hercules Graphic Card	
4.	1	AST SIX Plus Multifunction Card with 384 KB Ram	
5.	1	Canon PW 1080A printer with cable	
6.	1	IBM DOS 3.1	
7.	1	Howard Project Manager Software	
8.	1	Diskette storage Box (100 diskette capacity)	
9.	10 bxs.	S-Disk Blank 3M Ds/Dd	
10.	1	S-Paper (9 1/2 " x 11")	
11.	1	Yutivo 0.3 KVA Full time Ups, 3 hours back-up power S/N 6635	
12.	1	Lotus 123	
13.	1	BSI Single element Electric typewriter, 15.5" carriage, dual pitch, with carriage feature, 220 V. Ac, with complete accessories, S/N 1550561	

NO.	QUANTITY	DESCRIPTION	REMARKS
14.			
		D O S :	
	1	DOS Program	
	1	DOS Supplemental Program	
		L O T U S :	
	1	System Disk	
	1	Utility Disk	
	1	Install Library Disk	
	1	A View of 1-2-3	
	1	Printgraph Disk	
		W O R D P E R F E C T:	
	1	Wordperfect	
	1	Thesaurus	
	1	Printer I	
	1	Learning	
	1	Speller	
		A P P L E I I s:	
	1	Microsoft Premium Softcard IIe	
	1	Apple Presents... Apple	
	1	Apple Side 1	
	1	Appleworks Start-Up	
	1	PRODOS User's Disk	
	1	Appleworks Sample Files	
	1	DOS 3.3 System Master	

NO.	QUANTITY	DESCRIPTION	REMARKS
	1	DIAGNOSTIC	
	1	HERCULES GRAPHICS CARD	
	1	SIDEWAYS	
	1	SUPERPAK UTILITY PROGRAMS	
	1	SUPERCALC III	
		R B A S E 5 0 0 0 «	
	1	Filegateway	
	1	System Disk 1	
	1	System Disk 2	
	1	RBDebit, Compiler, System Driver	
	1	Sample Application	
	1	Application Express	
5.	3	Carrier airconditioners model 2HP Hitech Serial Nos. 2978, 2979 and 2976	44988.00
6.	1	IBM WHEELWRITER (SN 0057109) and all accessories	24000.00
7.	1	IBM Proprinter XL 132 col (SN 6333)	19801.00
8.	1	CANON AE-1 Prog, 35 mm. with all accessories	12645.00

NO.	QUANTITY	DESCRIPTION	REMARKS
19.	1	L-Square	
	1	Claw Hammer	
	1	Steel Tape	
	1	Saw	
20.	1	KODAK Ektagraphic AV 22 Programmable Dissolve Control	

APPENDIX 7.7

LIST OF RESEARCH EQUIPMENT
(ALLOCATION IN EACH COUNTRY)

APPENDIX 7.7: LIST OF RESEARCH EQUIPMENT PROCURED BY THE PARTICIPATING ASEAN COUNTRIES THROUGH THE AID GRANT FUND

COUNTRY	TARGET PROCUREMENT Contracting Period	Delivery Period	RELEASE	LIST OF EQUIPMENT	COST
Indonesia	From: 8/1/86 To: 12/31/86	From: 8/31/86 To: 6/30/87	12 May 1987 (ocean) and 05 June 1987 (air)	1. IBM PC Microcomputer 1/256 2 360KB disk drives, 220 v/60 HZ 2. Princeton Graphics Amber Max 12-E Monitor 3. Hercules Graphics Board (installed) 4. AST SIXPAKPLUS Multifunction Board with 384KB RAM, serial port, parallel port, clock calendar (installed) 5. EPSON FX-85 Printer (Near Letter Quality) with graphics capability 6. IBM PC DOS 3.1 7. IBM Basic Interpreter (included in DOS 3.1) 8. Word Perfect by Satellite Soft ware 9. LOTUS 1-2-3 by Lotus Development 10. Rolltype 100 diskette File 11. RBase 5000 by Microrim 12. 5.2" Diskettes DSDD 13. MS 250 Standby Power System 14. Belfort Instrument #5-750 330 mm Raingauger 15. Belfort P/N 678 Anchor Bases 16. Bottles # 10 INK 17. Extra Pens 18. Belfort # PL-8849-CP2 Calibration Weights 19. Swofer Instrument Model 2200 Open Stream Current Velocity meter 20. Teledyne Gurley, Cat # 622-EM, Current meter 21. Teledyne Gurley, Mdl. # 625-FM, Pygmy meter 22. Gurley # 299-309-5, Top Setting Rods 23. GBC Inc Samplers Model # 65 w/3 x 3 opening 24. GBC Inc extra nylon Mesh bags 25. MDL S-IW-1, water level recorder, w/weight, tape counter weight, 6 inch float, 8 day battery powered clock, metric pulley (complete with 2 manuals each) 26. Metric charts 27. 10 INK, 1 ounce bottle 28. PN 1961-ST Pen (559-#3LS) Electrical 220 v/60 HZ 29. Model US DN-59 Suspended Sediment Samplers, Cable Suspended 30. Hanger Bar for US DN-59 Sampler 31. Class print bottles, 24 bottles per box 32. Plastic caps for above bottles	65,200.00

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APPENDIX 7.7: LIST OF RESEARCH EQUIPMENT PROCURED BY THE PARTICIPATING ASEAN COUNTRIES THROUGH THE AID GRANT FUND

COUNTRY	TARGET PROCUREMENT Contracting Period	TARGET PROCUREMENT Delivery Period	RELEASE	LIST OF EQUIPMENT	COST
Malaysia	From: 8/1/86 To: 12/31/86	From: 6/31/86 To: 6/30/87	05 July 1987 (ocean) and 31 July 1987 (air)	1. Recording raingages 2. Water level recorders 3. Storage raingages 4. Automatic water samplers 5. Bedload sampler 6. Water analysis 7. Soil thermometer probes 8. Soil tensiometer 9. Automatic weather station with accessories 10. Class A evaporation pan 11. Stevenson screen 12. Max-min thermometer 13. Psychrometer 14. Hygrothermometer 15. Mechanical pyranograph 16. Soil thermometer 17. Microcomputer (IBM PC/XT) 18. Plotter 19. Digitizer 20. Pocket penetrometers 21. Water level indicator 22. Neutron moisture probe 23. Price current meter 24. Pygmy current meter 25. Current meter conversion 26. Current meter conversion 27. Guelph permeameter	118,100.00

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APPENDIX 7.7: LIST OF RESEARCH EQUIPMENT PROCURED BY THE PARTICIPATING ASEAN COUNTRIES THROUGH THE AID GRANT FUND

COUNTRY	TARGET PROCUREMENT Contracting Period	Delivery Period	RELEASE	LIST OF EQUIPMENT	COST
Thailand	From: 8/1/86 To: 12/31/86	From: 8/31/86 To: 6/30/87	30 June 1987 (ocean) and 02 August 1987 (air)	(1) Microcomputer (6) Current meter (10) Recording raingages (6) Hook gauge (micrometer) (6) Hygrothermograph (6) Water level recorder (6) Suspended sediment sampler (6) Soil analysis kit (6) Anemometer (three cup type) (2) Dissolved oxygen meter (2) Electrical conductivity meter (1) Vacuum pump and set of membrane filter (1) Hg-lamp, Cd-lamp, Pb-lamp for atomic absorption (1) NO3 and PO4 electrod for ion meter (Orion research) (1) Distilled water instrument (1) Spectrophotometer (4) Analytical balance (4) Soil core sampler (2) Grab sampler for sub-surface water samples (2) Pyranographs (1) Recording raingages (weighing type) (4) Anemometer	63,877

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APPENDIX 7.7: LIST OF RESEARCH EQUIPMENT PROCURED BY THE PARTICIPATING ASEAN COUNTRIES THROUGH THE AID GRANT FUND

COUNTRY	TARGET PROCUREMENT Contracting Period	TARGET PROCUREMENT Delivery Period	RELEASE	LIST OF EQUIPMENT	COST
PHILIPPINES	From: 4/1/88 To: 6/30/88	From: 5/1/88 To: 10/31/88	February 2, 1989 (ocean) and April 9, 1989 (air)	Hygrothermograph Soil core sampler Cylinder (3 cm long) Guelph permeameter kit KODAK III-BR Slide projector (220 V) Suspended sediment samplers Box (24 pint milk bottles) Cable suspension sediment sampler Wading rode for DH 48 samplers Bedload samplers Anemometer with charts Rain gage Anchor gage with charts Calibration weights Gurley outfit Current meter gurley Top setting bar Conversion kit Water level recorder with charts Multi-speed timer 8" dia. float copper w/ float line Hook gage Evaporation sta. weather Max-min thermometer Psychrometer Sample cans Pocket penetrometer Std. auger 3 1/4 18" cross handle 4" extension Staff compass knight Jacob staff deluxe Tree injector Cutting bit revel little Gasket revel little Valve body revel little Jam nut revel little Lifter plate revel little Jam nut left	10,204.00

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APPENDIX 7.7 Philippines continued...

COUNTRY	TARGET PROCUREMENT Contracting Period	TARGET PROCUREMENT Delivery Period	RELEASE	LIST OF EQUIPMENT	COST
Philippines	From:	From:			
				Herbicide applicator 10 M diameter tape NR 60 M tape 60 cm Caliper haglof Balance with weights 16" cross handle 4' extension Pyranographs w/ charts and ink TRL - 03 Refill unit Soil kit Refill unit Padlocks GPH 503 Hydroprobe, Scaler model 1ea. - IBM PC/XT Microcomputer or PC/XT Compatible (source must be verified) w/256K RAM, 20 MB hard disk, 1 - 360K floppy disk (220v, 60hz), IBM DOS, BASIC 1 ea. - monitor, 12-inch high resolution monitor, (220v, 60hz) 1 ea. - Hercules graphics card plus 1 ea. - multifunction card (AST SIXPAK PLUS) w/384K RAM, parallel port, serial port, clock calendar 2 ea. - Intel 8087 co-processor chip 2 ea. - Mouse and controller (PC Mouse) 1 ea. - Printer, Epson FX-86 or equivalent NLQ printer w/ graphics capability 1 ea. - UPS (uninteruptable power supply) w/ surge control, voltage regulation. for 220v, 60 hz. 350 watt 1 ea. - Flatbed plotter, 4-pen Epson or equivalent. (220v 60 hz.) 1 ea. - Flatbed digitizer, 12x12 minimum size, w/ software, SR232, 4-button cursor, power supply (220vac, 60hz) 1 ea. - Diskette file (Rolltype 100 or equivalent) 100 ea. - DS/DD 5 1/4" disks 1 ea. - Chainsaws, 24 inch blade 1 ea. - Spare blades 1 ea. - spare chains	

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APPENDIX 7.8

SUMMARY OF YEARLY BUDGET
(USAID & ASEAN)

COMPONENTS & SUB-ITEMS	Y E A R 1 (1984)			
	ORIGINAL		ACTU	
	AID	ASEAN	AID	
I. PROJECT-SPONSORED ACTIVITIES				
1. Symposia	30,000	10,000	9,919	
2. Seminars	70,000	30,000	29,903	
3. Workshops	50,000	20,000	34,336	
SUB-TOTAL	150,000	60,000	74,158	
II. TRAINING				
1. U.S. Long-Term	200,000	50,000		
2. Regional Long-Term	20,000	120,000		
3. U.S. Short-Term	20,000	10,000		
4. Regional Short-Term	10,000	40,000	22,514	
SUB-TOTAL	250,000	220,000	22,514	
III. RESEARCH SUPPORT				
1. Equipment				
2. Training on the Use of Equipment				
3. Operation and Maintenance of Equipment (including Preparation of Research Proposal)				
SUB-TOTAL				
IV. LOS BANOS CENTER				
1. Professional Staff	70,000		17,400	
2. Other Staff		50,000		3:
3. Equipment, Vehicles and Supplies	100,000		38,615	
4. Facilities, Utilities		100,000		115
5. Information Exchange Support	30,000	50,000		
SUB-TOTAL	200,000	200,000	56,015	146
V. PSC/PCC Meetings @				23
VI. U.S. LIAISON AND CONSULTANT SERVICES				
1. Project Liaison Specialist	150,000			
2. Short-Term Consultant/Contract Services	100,000			
SUB-TOTAL	250,000			
T O T A L	850,000	480,000	152,687	251,

Notes: Exchange rate used are as follows:

1984 - P14.00/US$
1985 - P16.00/US$
1986 - P18.00/US$
1987 - P21.00/US$
1988 - P21.00/US$

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APPENDIX 7.8: Summary of Yearly Budget with Comparis

4)	Y E A R 2 (1985)				Y E A R 3 (1986)			
TUAL	ORIGINAL		ACTUAL		ORIGINAL		ACTUAL	
ASEAN	AID	ASEAN	AID	ASEAN	AID	ASEAN	AID	ASEAN
10,854	30,000	10,000					8,516	13,648
28,383	70,000	30,000	59,664	27,767	50,000	30,000	31,456	60,804
17,562	50,000	20,000	18,289	27,742	50,000	30,000	35,852	37,444
56,799	150,000	60,000	77,953	55,509	100,000	60,000	75,824	111,896
			15,448	19,233				24,344
	40,000	20,000	2,549	11,308	40,000	20,000	13,297	26,789
	100,000	10,000	110,874	33,978	100,000			
24,326	60,000	40,000	40,427	18,793	60,000	50,000	59,300	92,257
24,326	200,000	70,000	169,298	83,312	200,000	70,000	72,597	143,390
	350,000				50,000			
	50,000				50,000			
		150,000		1,485		150,000		3,010
	400,000	150,000		1,485	100,000	150,000		3,010
	70,000		38,498		70,000		50,281	
31,264		50,000		33,538		50,000		47,302
			32,625				11,466	
115,611		50,000		115,557		50,000		123,272
	30,000	50,000	8,403	1,705	30,000	50,000	11,660	2,210
146,875	100,000	150,000	79,526	150,800	100,000	150,000	73,407	172,784
23,788			2,228	32,928			240	43,298
	50,000		6,478		50,000		108,336	
	50,000		103,965		50,000		42,652	
	100,000		110,443		100,000		150,988	
251,788	950,000	430,000		324,034	600,000	430,000		474,378

* The expenses during the Training Course on Statistical Hydrology in Indone

** This amount does not include the Research Equipment of the Philippines sin

*** This amount represents the expenses on the training on the use of equipmen

**** The operatio and maintenance expense of Malaysia and Thailand is not yet i

Comparison between the Original Estimates and the Actual Financial Results of the Project

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86)	Y E A R 4 (1987)				Y E A R 5 (1988)			
TUAL	ORIGINAL		ACTUAL		ORIGINAL			
ASEAN	AID	ASEAN	AID	ASEAN	AID	ASEAN	AID
13,648	30,000	10,000					
60,804	50,000	30,000	37,986	19,344		30,000	5,524
37,444	20,000	20,000	18,926	335		30,000	15,638
111,896	100,000	60,000	56,912	19,679		60,000	21,162
24,344			98,290	19,549			4,402
26,789	25,000	20,000	46,250	29,644		20,000	9,598
	50,000						
92,257	75,000	50,000	75,186	112,450		50,000	61,151 *
143,390	150,000	70,000	219,734	161,643		70,000	75,151
			247,177 **				
							5,050
3,010		150,000		19,715		150,000	
3,010		150,000	247,177	19,715		150,000	5,050
	70,000		37,223		70,000		46,516
47,302		50,000		52,980		50,000	
			2,086				1,476
123,272		50,000		132,420		50,000	
2,210	30,000	50,000	10,677	3,535	30,000	50,000	12,795
172,794	100,000	150,000	49,986	188,935	100,000	150,000	60,787
43,298			4,044	47,576			1,594
	50,000		98,410		50,000		78,107
	50,000		27,657	9,475			3,399
	100,000		126,067	9,475	50,000		81,506
474,378	450,000	430,000		447,023	150,000	430,000	

gy in Indonesia (1988) is not yet included, no financial report as of 1 June 1989.

lippines since it was delivered only in 1989.

of equipment for Thailand only.

is not yet included, no financial report as of 1 June 1989.

S (1988)		A L L Y E A R S				T O T A L	
ACTUAL		ORIGINAL		ACTUAL		ORIGINAL	ACTUAL
AID	ASEAN	AID* (A)	ASEAN (B)	AID (C)	ASEAN (D)	(X)	(Y)
		90,000	30,000	18,435	24,502	120,000	42,937
5,524	18,900	240,000	150,000	164,533	155,198	390,000	319,731
15,638	21,498	170,000	120,000	123,041	104,581	290,000	227,622
21,162	40,398	500,000	300,000	306,009	284,281	800,000	590,290
4,402	3,568	200,000	50,000	118,140	66,694	250,000	184,834
9,598	17,854	125,000	200,000	71,702	85,595	325,000	157,297
		270,000	20,000	110,874	33,978	290,000	144,852
61,151 *	68,316 *	205,000	230,000	258,578	316,142	435,000	574,720
75,151	89,738	800,000	500,000	559,294	502,409	1,300,000	1,061,703
		400,000		247,177		400,000	247,177
5,050 ***		100,000		5,050		100,000	5,050
	34,245 ****		600,000		58,455	600,000	58,455
5,050	34,245	500,000	600,000	252,227	58,455	1,100,000	310,682
46,516		350,000		189,918		350,000	189,918
	56,215		250,000		221,299	250,000	221,299
1,476		100,000		86,268		100,000	86,268
	107,543		300,000		594,403	300,000	594,403
12,795	7,155	150,000	250,000	43,535	14,605	400,000	58,140
60,787	170,913	600,000	800,000	319,721	830,307	1,400,000	1,150,028
1,594	16,591			8,106	164,181		172,287
78,107		350,000		291,331		350,000	291,331
3,399		250,000		177,673	9,475	250,000	187,148
81,506		600,000		469,004	9,475	600,000	478,479
	351,885	3,000,000	2,200,000	1,914,361	1,849,108	5,200,000	3,763,469

% UTILIZATION:

AID (C/A) = 63.81 %

ASEAN (D/B) = 84.05 %

TOTAL (Y/X) = 72.37 %

368

APPENDIX 7.9

LIST OF BOOKS AND REFERENCES

Appendix 7.9. List of Books and Reference Materials.

TITLE	AUTHOR(S)	PUBLISHER	PLACE OF PUBLICATION	YEAR	VOL./NO.	EDITION	LANGUAGE	CLASSIF.
Personnel: The Management of Securing and Maintaining the Work Force	J.M. Putti	S. Chand & Co., Ltd.Ram	Nagar, New Delhi, India	1980			English	Book
The Essence of Management	J.M. Putti	The National Publishing Co.	7, Kondi Chetty Street, Madras, Singapore 600-001	1981			English	Book
Forestry Handbook	K.F. Wenger	Wiley Interscience Publication	Canada	1984		2nd	English	Book
Soil and Water Conservation Engineering	G.O. Schwab, R.K. Frevert, T.W. Edminster & K.K. Barnes	John Wiley & Sons, Inc.	Canada	1985		3rd	English	Book
Water Resources: Distribution, Use, and Management	J.R. Mather	John Wiley & Sons, Inc. and V.H. Wilson & Sons	Canada	1984			English	Book
Water	F. Powledge	McGraw-Hill Rejerson Ltd.	Canada	1982			English	Book
Management Development for Applied Research Institute		USAID	Washington, DC 20523	1978			English	Handbook

Getting Along Better with People	C.N. Parkinson & M.K. Rustomji	Federal Publications	Times Jurong, 2 Jurong Port Road, Singapore 2261	1982	English	Handbook
Great Ideas in Management	C.N. Parkinson, M.K. Rustomji & S.A. Sapre	Federal Publications		1985	English	Handbook
Getting Things Done: The ABCs of Time Management	E.C. Bliss	Federal Publications		1985	English	Handbook
Training Program on Advanced Management Techniques		ASEAN-US Watershed Project & National University of Singapore	Singapore	1985	English	Handbook
Training Course on Watershed Management and Environmental Monitoring (Lecture Notes)		ASEAN-US Watershed Project	College, Laguna, Philippines	1985	English	Handbook
The Cultural Setting of Management in India and the Unites States	J.M. Putti	The National Publishing Co.	7 Kondi Chetty Street, Madras 600001 India	1979	English	Handbook
Student Handbook and Guide to the Environmental Studies Program		Graduate School, UPLB	College, Laguna, Philippines		English	Handbook

Proceedings of the Workshop on Standardization of Guidelines for Watershed Management Approaches and Researches in the ASEAN Region	ASEAN-US Watershed Project	College, Laguna, Philippines	1986		English	Handbook
Proceedings of the Workshop on Roading and Development Activities in Relation to Soil Erosion and Sedimentation Control in Watersheds	ASEAN-US Watershed Project	College, Laguna, Philippines	1988		English	Handbook
Abstracts of Watershed Management Research and Related Studies in the ASEAN Region	ASEAN-US Watershed Project	College, Laguna, Philippines	1988	Vol. 1	English	Handbook
Annual Accomplishment Report (CY 1985)	ASEAN-US Watershed Project	College, Laguna, Philippines	1985		English	Report
Sungei Tekam Experimental Basin. Annual Report No. 1 for 1973-1974	Ministry of Agriculture and Rural Development	Kuala Lumpur, Malaysia	1975	No. 3	English	Report

Sungei Tekam Experimental Basin. Annual Report No. 2 for September, 1974 to March, 1977	Ministry of Agriculture	Kuala Lumpur, Malaysia	1978	No. 10	English	Report
Sungei Tekam Experimental Basin Calibration Report from July, 1977 to June, 1980	Ministry of Agriculture	Kuala Lumpur, Malaysia	1980	No. 13	English	Report
Sungei Lui Representative Basin. Report No. 2 for 1974/74 to 1975/76	Ministry of Agriculture	Kuala Lumpur, Malaysia	1978	No. 9	English	Report
Sungei Lui Representative Basin Report No. 1 for 1971/72 to 1973/74	Ministry of Agriculture	Kuala Lumpur, Malaysia	1977	No. 7	English	Report
Report of the ASEAN-US Watershed Project-sponsored Seminar on Watershed Research and Management Practices	ASEAN-US Watershed Project	College, Laguna, Philippines	1985		English	Report
Annual Report 1984	College of Forestry, UPLB	College, Laguna, Philippines	1984		English	Report

Report of the First ASEAN-US Symposium on Watershed Management and Conservation for Productive and Protective Uplands in the ASEAN Region	ASEAN-US Watershed Project	College, Laguna, Philippines	1984	English	Report
Report of the First ASEAN-US Watershed Project Seminar on Researches for Productive and Protective Watershed Resources in the ASEAN Region	ASEAN-US Watershed Project	College, Laguna, Philippines	1984	English	Report
Report of the ASEAN-US Watershed Project-Sponsored Study Tour of ASEAN Watershed Management, Research and Conservation Projects	ASEAN-US Watershed Project	College, Laguna, Philippines	1984	English	Report
Report of the First ASEAN-US Watershed Project-Sponsored Training Course on Watershed Management and Environmental Monitoring	ASEAN-US Watershed Project	College, Laguna, Philippines	1985	English	Report

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Report of the ASEAN-US Watershed Project-Sponsored Workshop on Land-Use Planning in a Watershed Context		ASEAN-US Watershed Project	College, Laguna, Philippines	1985	English	Report
Report of the ASEAN-US Watershed Project-Sponsored Training Seminar on Advanced Management Techniques		ASEAN-US Watershed Project	College, Laguna, Philippines	1985	English	Report
Report of the Training Course on Watershed Management and Environmental Impact Assessment and Monitoring		ASEAN-US Watershed Project	College, Laguna, Philippines	1986	English	Report
Report of the Training Course on Watershed Research and Management		ASEAN-US Watershed Project	College, Laguna, Philippines	1986	English	Report

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Report of the ASEAN-US Watershed Project-Sponsored Workshop on Roading and Development Activities in Relation to Soil Erosion and Sedimentation Control in Watersheds	ASEAN-US Watershed Project	College, Laguna, Philippines	1986	English	Report
Report of the ASEAN-US Watershed Project-Sponsored Roving Seminar on Watershed Research and Management Practices	ASEAN-US Watershed Project	College, Laguna, Philippines	1986	English	Report
Report of the ASEAN-US Watershed Project-Sponsored Roving Seminar on Watershed Research and Management Practices (Philippine Schedule)	ASEAN-US Watershed Project	College, Laguna, Philippines	1986	English	Report
Report of the Roving Seminar on Watershed Research and Management Practices (Thailand Schedule)	ASEAN-US Watershed Project	College, Laguna, Philippines	1986	English	Report

Report of the Roving Seminar on Watershed research and Practices (Indonesian Schedule)	ASEAN-US Watershed Project	College, Laguna, Philippines	1986	English	Report
Report of the Workshop on Standardization and Technology Transfer of Watershed Research and Management Techniques, Practices and Terminologies	ASEAN-US Watershed Project	College, Laguna, Philippines	1986	English	Report
Report of the ASEAN-US Watershed Project-Sponsored Research Training Program	ASEAN-US Watershed Project	College, Laguna, Philippines	1986	English	Report
Report of the ASEAN-US Watershed Project-Sponsored Watershed Project Management Seminar	ASEAN-US Watershed Project	College, Laguna, Philippines	1987	English	Report
Report on the Joint Evaluation of the ASEAN-US Watershed Project	ASEAN-US Watershed Project	College, Laguna, Philippines	1987	English	Report

Report of the ASEAN-US Watershed Project-Sponsored Training Course on Soil Erosion and Water Yield	ASEAN-US Watershed Project	College, Laguna, Philippines	1987	English	Report
Report of the ASEAN-US Watershed Project-Sponsored Training Course on Statistical Hydrology	ASEAN-US Watershed Project	College, Laguna, Philippines	1987	English	Report
Report of the ASEAN-US Watershed Project-Sponsored Roving Lecture on Watershed Rehabilitation (Philippine Schedule)	ASEAN-US Watershed Project	College, Laguna, Philippines	1987	English	Report
Report of the ASEAN-US Watershed Project-Sponsored Roving Lecture on Watershed Rehabilitation (Indonesian Schedule)	ASEAN-US Watershed Project	College, Laguna, Philippines	1987	English	Report

Report of the ASEAN-US Watershed Project-Sponsored Roving Lecture on Watershed Rehabilitation (Malaysian Schedule)		ASEAN-US Watershed Project	College, Laguna, Philippines	1987	English	Report
Report of the ASEAN-US Watershed Project-Sponsored Roving Lecture on Watershed Rehabilitation (Thai Schedule)		ASEAN-US Watershed Project	College, Laguna, Philippines	1987	English	Report
Report of the Planning Workshop on the Development of Manuals on Watershed Management		ASEAN-US Watershed Project	College, Laguna, Philippines	1988	English	Report
Report of the ASEAN-US Watershed Project-Sponsored Planning Workshop on the Future of ASEAN Cooperation on Watershed Management		ASEAN-US Watershed Project	College, Laguna, Philippines	1988	English	Report

Report of the ASEAN-US Watershed Project-Sponsored Training Course on Soil Erosion/Sedimentation Control and Monitoring	ASEAN-US Watershed Project	College, Laguna, Philippines	1988	English	Report
Report of the ASEAN-US Watershed Project-Sponsored Training Course on Statistical Hydrology	ASEAN-US Watershed Project	College, Laguna, Philippines	1988	English	Report
Report of the ASEAN-US Watershed Project-Sponsored Training Course on Computer Applications in Watershed Management	ASEAN-US Watershed Project	College, Laguna, Philippines	1988	English	Report
Report of the ASEAN-US Watershed Project-Sponsored Training Course on Environmental Impact Assessment of Watershed Development Projects	ASEAN-US Watershed Project	College, Laguna, Philippines	1988	English	Report

Report of the First Meeting of the Program Steering Committee of the ASEAN-US Watershed Project	ASEAN-US Watershed Project	College, Laguna, Philippines	1981	English	Report
Report of the Second Meeting of the Project Steering Committee of the ASEAN-US Watershed Project	ASEAN-US Watershed Project	College, Laguna, Philippines	1982	English	Report
Report of the Third Meeting of the Project Steering Committee of the ASEAN-US Watershed Project	ASEAN-US Watershed Project	College, Laguna, Philippines	1982	English	Report
Report of the Fourth Meeting of the Project Steering Committee of the ASEAN-US Watershed Project	ASEAN-US Watershed Project	College, Laguna, Philippines	1983	English	Report
Report of the Fifth Meeting of the Project Steering Committee of the ASEAN-US Watershed Project	ASEAN-US Watershed Project	College, Laguna, Philippines	1984	English	Report

Report of the Sixth Meeting of the Project Steering Committe of the ASEAN-US Watershed Project	ASEAN-US Watershed Project	College, Laguna, Philippines	1984	English	Report
Report of the Seventh Meeting of the Project Steering Committee of the ASEAN-US Watershed Project	ASEAN-US Watershed Project	College, Laguna, Philippines	1985	English	Report
Report of the Eigth Meeting of the Project Steering Committee of the ASEAN-US Watershed Project	ASEAN-US Watershed Project	College, Laguna, Philippines	1986	English	Report
Report of the Ninth Meeting of the Project Steering Committee of the ASEAN-US Watershed Project	ASEAN-US Watershed Project	College, Laguna, Philippines	1986	English	Report
Report of the Tenth Meeting of the Project Steering Committee of the ASEAN-US Watershed Project	ASEAN-US Watershed Project	College, Laguna, Philippines	1987	English	Report

Report of the Eleventh Meeting of the Project Steering Committee of the ASEAN-US Watershed Project		ASEAN-US Watershed Project	College, Laguna, Philippines	1987		English	Report
Report of the Twelfth Meeting of the Project Steering Comittee of the ASEAN-US Watershed Project		ASEAN-US Watershed Project	College, Laguna, Philippines	1988		English	Report
Quarterly/ Monthly Progress Reports of the ASEAN-US Watershed Project		ASEAN-US Watershed Project	College, Laguna, Philippines	variable		English	Report
Framework of a Comprehensive Forestry Development Programs for the Philippines	A.V. Revilla, Jr.	Forestry Development Center	College, Laguna, Philippines	1980	No. 3	English	Policy Paper
Framework for Policy Analysis on Natural Resources	A.M. Dalisay	Forestry Development Center	College, Laguna, Philippines	1981	No. 1	English	Policy Paper
Reshaping the Philippine Forestry Sector	N.M. Bonita	Forestry Development Center	College, Laguna, Philippines	1981	No. 4	English	Policy Paper

Forestry Conciousness: A Youth's Viewpoint Part I	C.S.A. Caraballa, M., M. Apordera, & T. Cuenca III	Forestry Development Center	College, Laguna, Philippines	1981	No. 5	English	Policy Paper
Forestry Conciousness: A Youth's Viewpoint Part II	G.B. Abellera, R.B. dela Serna, & F. Prestousa	Forestry Development Center	College, Laguna, Philippines	1981	No. 6	English	Policy Paper
Forestry Conciousness: A Youth's Viewpoint Part IV	M.C.M. Manabat, L. Alba, & G. Gordoncillo	Forestry Development Center	College, Laguna, Philippines	1983	No. 8	English	Policy Paper
The COSTEF System: A Cost-Effective Reforesta-tion/Agrofor-estation Strategy	A.V. Revilla, Jr. & M.C. Gregorio	Forestry Development Center	College, Laguna, Philippines	1983	No. 9	English	Policy Paper
Predicted Wood Yield for <u>Leucaena</u> Plantations in the Philippines	A.V. Revilla, Jr. & M.C. Gregorio	Forestry Development Center	College, Laguna, Philippines	1983	No. 10	English	Policy Paper
Social Forestry in the Philippines: A Macro View	D.M. Kummer	Forestry Development Center	College, Laguna, Philippines	1984	No. 11	English	Policy Paper

Upland Degradation and Attempts of Upland Developments in the Philippines	D.M. Kummer	Forestry Development Center	College, Laguna, Philippines	1984	No. 12	English	Policy Paper
A Conceptual Framework for Program Development and Evaluation in Social Forestry	J.M. Pulhin	Forestry Development Center	College, Laguna, Philippines	1984	No. 13	English	Policy Paper
Philippine Forestry Development: The People's Forest Program	A.V. Revilla, Jr.	Forestry Development Center	College, Laguna, Philippines	1984	No. 14	English	Policy Paper
The Need for a Forest Renewal Trust Fund in the Philippines	A.V. Revilla, Jr.	Forestry Development Center	College, Laguna, Philippines	1984	No. 15	English	Policy Paper
A Critical Look at the Upland Livelihood Programs in the Philippines		Forestry Development Center	College, Laguna, Philippines	1985	No. 16	English	Policy Paper
Factors Influencing Discrepancies Between Forest Products Trade Reports of the Philippines and its Trading Partners	P.B. Durst	Forestry Development Center	College, Laguna, Philippines	1985	No. 17	English	Policy Paper

Effectiveness and Productivity of Forestry Education in the Philippines	Forestry Development Center	College, Laguna, Philippines	1985	No. 18	English	Policy Paper
Project Paper	ASEAN-US Watershed Project	College, Laguna, Philippines			English	Paper
Project Grant Agreement Between the Republic of the Philippines and the United States of America for the ASEAN-US Watershed Project	ASEAN-US Watershed Project	College, Laguna, Philippines			English	Paper
Inventory of On-Going Research Projects/ Studies of the College of Forestry as of March, 1985 and Research Involvement of the Faculty	Forestry Research Office, Institute of Forest Conservation, College of Forestry, UPLB	College, Laguna, Philippines	1985		English	Paper
Southwest Rangeland Watershed Research Center, Tucson, Arizona	Agricultural Research Service	2000 East Allen Road, Tucson, Arizona 85719			English	Bibliography

The New Roget's Thesaurus in Dictionary Form	N. Lewis	G.P. Putnam's Sons	New York	1912		English	Dictionary
Daftar Buku Koleksi Perpustakan Manggala Wanabakti		Yayasan Sarana Wana Jaya	Indonesia	1983		Bahasa	Directory
How to Grow Rattan	M.L. Generalao	Ecosystems Research and Development Bureau	College, Laguna, Philippines		No. 1	English	Series
Monitoring on Soil Erosion to Improve Watershed Management in Indonesia	J. Loebis	Institute of Hydraulic Engineering	Bogor, Indonesia	1984		English	Paper
Papers presented during the ASEAN-US Watershed Project-sponsored activities	variable	variable	variable	variable		English	Papers
Lecture materials used during the ASEAN-US Watershed Project-sponsored training courses and roving lectures	variable	variable	variable	variable		English	Papers

Economic Analysis of the Environmental Impacts of Development Projects	J.A. Dixon et al.	Earthscan Publications Ltd. in association with the Asian Development Bank	3 Endsleigh Street, London, UK	1988		English	Book
Water Resources Management in Asia: A Selected Bibliography with Essays	N.C. Cruz et al.	East-West Center	Honolulu, Hawaii	1984		English	Book
Proceedings of the International Workshop on Soil Erosion and its Counter-Measures	S. Jantawat (editor)	The Soil and Water Conservation Society of Thailand	Bangkok, Thailand	1987		English	Handbook
Principles of Water Resources Planning	A.S. Goodman	Prentice-Hall, Inc.	Englewood Cliffs, New Jersey 07632	1984		English	Book
Principles of Forest Hydrology	J.D. Hewlett	University of Georgia Press	Athens, Georgia	1982		English	Handbook
Abstracts: Philippine Forestry Research	V.B. Mendoza (editor)	Inter-Agency Group for Forestry Research Application		1981	Vol. 1	English	Book

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Uplands and Uplanders - In Search for New Perspective: Proceedings of the First National Conference on Research in the Uplands	C.P. Castro (editor)	Upland Development Program (UPD)	Diliman, Quezon City, Philippines	1984	English	Handbook
Watershed Conservation: A Collection of Papers for Developing Countries	T.C. Sheng	Chinese Soil and Water Conservation Society & Colorado State University	Taipei, Taiwan	1986	English	Handbook
Webster's Ninth New Collegiate Dictionary	F.C. Nish et al. (editors)	Merriam-Webster, Inc.	Springfield, Massachu-setts, USA	1987	English	Dictionary
DOS Version 3.1 Reference Manual		IBM	Boca Raton, Florida, USA	1985	English	Handbook
IBM Personal Computer Hardware Reference Library		IBM	Boca Raton, Florida, USA	1985	English	Handbook
WordPerfect 4.1 Word Processing Software Manual		WordPerfect Corp.	USA	1986	English	Handbook
RBASE 5000 Refence Manual		Microrim, Inc.	Bellevue, Washington, DC, USA	1985	English	Handbook

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RBASE 5000 User's Manual		Microrim, Inc.	Bellevue, Washington, DC, USA	1985		English	Handbook
IBM Proprinter XL Guide to Operations		IBM	USA	1986		English	Handbook
CANON PW-1080A Impact Matrix Printer Operation Manual		Canon, Inc.	Tokyo, Japan	1983		English	Handbook
Appleworks Integrated Software Manual		Apple Corp.	USA	1985		English	Handbook
Apple IIe Operations Manual		Apple Corp.	USA	1985		English	Handbook
AWRA Water Resources Bulletin	M. Potash	American Water Resources Association	Minneapolis, Minnesota, USA	1985	Vol. 21/No. 3	English	Bulletin
AWRA Water Resources Bulletin	M. Potash	American Water Resources Association	Minneapolis, Minnesota, USA	1985	Vol. 21/No. 4	English	Bulletin
AWRA Water Resources Bulletin	M. Potash	American Water Resources Association	Minneapolis, Minnesota, USA	1985	Vol. 21/No. 5	English	Bulletin
AWRA Water Resources Bulletin	M. Potash	American Water Resources Association	Minneapolis, Minnesota, USA	1985	Vol. 21/No. 6	English	Bulletin
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1985	Vol. 21/No. 7	English	Handbook

Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1985	Vol. 21/No. 8	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1985	Vol. 21/No.10	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1985	Vol. 21/No.12	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1986	Vol. 22/No. 1	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1986	Vol. 22/No. 2	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1986	Vol. 22/No. 3	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1986	Vol. 22/No. 4	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1986	Vol. 22/No. 5	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1986	Vol. 22/No. 6	English	Handbook

Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1986	Vol. 22/No. 7	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1986	Vol. 22/No. 8	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1986	Vol. 22/No. 9	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1986	Vol. 22/No.10	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1986	Vol. 22/No.11	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1986	Vol. 22/No.12	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1986	Vol. 22/No.13	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1987	Vol. 23/No. 1	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1987	Vol. 23/No. 2	English	Handbook

Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1987	Vol. 23/No. 3	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1987	Vol. 23/No. 3	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1987	Vol. 23/No. 4	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1987	Vol. 23/No. 5	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1987	Vol. 23/No. 6	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1987	Vol. 23/No. 7	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1987	Vol. 23/No. 8	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1987	Vol. 23/No. 9	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1987	Vol. 23/No.10	English	Handbook

Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1987	Vol. 23/No.11	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1987	Vol. 23/No.12	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1988	Vol. 24/No. 1	English	Handbook
Water Resources Research	R.G. Cumming & D.R. Nielsen	American Geophysical Union	Florida Ave., N.W., Washington, DC 20009, USA	1988	Vol. 24/No. 2	English	Handbook
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AWRA Water Resources Bulletin	M. Potash	American Water Resources Association	Minneapolis, Minnesota 55435, USA	1986	Vol. 22/No. 1	English	Bulletin
AWRA Water Resources Bulletin	M. Potash	American Water Resources Association	Minneapolis, Minnesota, USA	1986	Vol. 22/No. 2	English	Bulletin
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AWRA Water Resources Bulletin	R. McQuen	American Water Resources Association	Minneapolis, Minnesota, USA	1987	Vol. 23/No. 4	English	Bulletin
AWRA Water Resources Bulletin	R. McQuen	American Water Resources Association	Minneapolis, Minnesota, USA	1987	Vol. 23/No. 5	English	Bulletin
AWRA Water Resources Bulletin	R. McQuen	American Water Resources Association	Minneapolis, Minnesota, USA	1987	Vol. 23/No. 6	English	Bulletin
Remote Sensing		UNDP/ESCAP Regional Remote Sensing Program	BAngkok, Thailand	1987	Vol. 4/No. 3	English	Newsletter

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UPLB Newsletter		UPLB Public Affairs Office	College, Laguna, Philippines	1987	Vol. 6/Nos. 18, 25 & 27	English	Newsletter
UPLB Newsletter		UPLB Public Affairs Office	College, Laguna, Philippines	1988	Vol. 7/Nos. 4, 29 & 36	English	Newsletter
Foreign Abstracts Collection		ASEAN-US Watershed Project	College, Laguna, Philippines	1989	Vol. I	English	Compilation
Philippine Forestry Statistics		Forest Management Bureau	Diliman, Quezon City, Philippines	1982 1984		English	Report
Theses of the Project-sponsored scholars	variable	scholars	variable	variable		English	Thesis
Hydrological Data: Water Quality Records (1979-80)		Ministry of Agriculture	Kuala Lumpur, Malaysia	1982		English	Handbook
Proceedings of the Symposium on Effects of Forest Land Use on Erosion and Slope Stability	C.L. O'Loughlin & A.J. Pearce	East-West Center	Honolulu, Hawaii	1985		English	Handbook
Report of the ASEAN Seminar on Forest Land Use and Rehabilitation		ASEAN CGFo	Jakarta, Indonesia	1985		English	Report
Forestry	K.P. Prajapati et al. (editors)	Institute of Forestry	Nepal	1988	No. 10	English	Report

Recreation Symposium Proceedings		Northeastern Forestr Experiment Station, Forest Service, USDA	Philadelphia, USA	1971		English	Handbook
Information Malaysia: 1986 Year Book		Berita Publishing Sdn. Bhd.	Kuala Lumpur, Malaysia	1986		English	Handbook
Annual Report on Forestry in Peninsular Malaysia		Ministry of Primary Industries	Kuala Lumpur, Malaysia	1983		Bahasa-English	Report
The Embryon		ASEAN-Canada Forest Tree Seed Center	Saraburi, Thailand	1984	Vol. 1/No. 1	English	Bulletin
ERDB Annual Report		Ecosystems Research and Development Bureau	College, Laguna, Philippines	1986, 1987		English	Report
Current and Potential Uses of Legumes in Various Agroforestry Systems in Malaysia	K. Awang & A.M. Ahmad	East-West Center	Honolulu, Hawaii	1981		English	Paper
Status of Watershed Management Research and Identification of Needed Researches in ASEAN Countries	S.R. Saplaco	East-West Center	Honolulu, Hawaii	1981		English	Paper

The Watershed as a Unit for Planning Rural Development Projects	L.S. Hamilton	East-West Center	Honolulu, Hawaii	1981	English	Paper
Integrated Watershed Management in Asia and the Pacific	K.W. Easter & K.N. Brooks	East-West Center	Honolulu, Hawaii	1981	English	Paper
Management of Angat Watershed, Norzagaray, Bulacan, Philippines	J.P. Castro	East-West Center	Honolulu, Hawaii	1981	English	Paper
Brantas River Basin Integrated Development Plan	East Java Provincial Board of Planning	Ministry of Public Works	Cipanas, Indonesia	1986	English	Paper
Building Local Participation into Indonesian Integrated River Basin Watershed Management	D.S. McCauley	Ministry of Public Works	Cipanas, Indonesia	1986	English	Paper
The Roles of Ecology in Watershed Development: Examples from Nepal and Indonesia	J. Fox	Ministry of Public Works	Cipanas, Indonesia	1986	English	Paper

Integrated River Basin Development and Watershed Management: Implementation Issues, Institutional Framework and Economic Incentives	C.W. Howe	Ministry of Public Works	Cipanas, Indonesia	1986	English	Paper
Conceptual Framework For Integrated River Basin Development and Watershed Management	M.M. Hufschmidt	Ministry of Public Works	Cipanas, Indonesia	1986	English	Paper
Application of Systems Analysis to Generate Information for Water Resources Allocation Decisions in River Basin Management Planning, Programming and Budgeting	E.V. Beek	Ministry of Public Works	Cipanas, Indonesia	1986	English	Paper
Monitoring and Evaluation for Integrated River Basin Development and Watershed Management	K.W. Easter	Ministry of Public Works	Cipanas, Indonesia	1986	English	Paper

Planning, Programming and Budgeting for Integrated River Basin Development and Watershed Management	M.M. Hufschmidt	Ministry of Public Works	Cipanas, Indonesia	1986	English	Paper
Assessment of Water and Sediment Through the Use of Mathematical Models (Methods and Procedures Applied to the Niger River Basin in West Africa)	R.C. McArthur	Ministry of Public Works	Cipanas, Indonesia	1986	English	Paper
Sediment Management (Integrating Sediment Management with River Basin Development)	R. Dwidjomestopo & Soenarno	Ministry of Public Works	Cipanas, Indonesia	1986	English	Paper
Management Experience in the Citanduy River Basin Development and Watershed Management	The West Java Provincial Development Planmong Board	Ministry of Public Works	Cipanas, Indonesia	1986	English	Paper
Economic Aspects of Integrated Watershed Management	J.A. Dixon & K.W.Easter	Ministry of Public Works	Cipanas, Indonesia	1986	English	Paper

Status of Watershed Management Research and Identification of Needed Research in Indonesia	E. Sutadipradja	East-West Center	Honolulu, Hawaii	1985	English	Paper
Multiple-Use Implications of Watershed Management	P.E. FFolliott	East-West Center	Honolulu, Hawaii	1985	English	Paper
Soil Conservation Research in Tropical Watersheds: Its Status and Implications for Future Research Programs and Institution Building	V.K. Handerlie	East-West Center	Honolulu, Hawaii	1985	English	Paper
Implementation and Institutional Aspects of Integrated Watershed Management	K. William Easter and C. J. W. Gibbs	East-West Center	Honolulu, Hawaii	1985	English	Paper
Watershed Management and Identification of Needed Research in Thailand	K. Chunkao	East-West Center	Honolulu, Hawaii	1985	English	Paper

Status of Watershed Management Research and Identification of Needed Research	K. P. Upadhyay	East-West Center	Honolulu, Hawaii	1985	English	Paper
The Potential Role of Agroforestry in Integrated Watershed Management	N. T. Vergara	East-West Center	Honolulu, Hawaii	1985	English	Paper
Correction of Precipitation Measurements	B. Sevruk		Switzerland	1985	English	Paper
Restoring the Balance: A Methodology for Research and Implementation	A.H. Dani	East-West Center	Honolulu, Hawaii	1985	English	Paper
Status of Forest Watershed Research in the Philippines	S.R. Gaplaco & E.F. Costales, Jr.	N/A	N/A	1986	English	Paper
Chao Phya Irrigation: Case Study	S. Hungpreug	Project Planning Division			English	Paper
Society and Culture in Rural Thailand (1970 - 1984): Current Trends and Directions	S. Wun'Gaeo	Chulalongkorn University	Bangkok, Thailand		English	Paper

List of Proclaimed Watershed Forest Reserves in the Philippines	None				English	Paper
Farmers' Income and Soil Conservation in the Peruvian Andes	J. Alfaro	N/A	N/A		English	Paper
Research Data for Forest Policy: The Purpose, Methods and Progress of Forest Hydrology	E.R.C. Reynolds & L. Leyton	University of Oxford	England	1967	English	Paper
Watershed Management: The Ambuklao-Binga Experience in Northern Luzon	None	N/A	N/A		English	Paper
Compilation of Papers on Watershed Management	None	N/A	N/A	Variable	English	Paper
Managing For Applications, Not Just for Research and Development	R.Z. Callaham	Journal of Forestry			English	Paper

Agroclimatic Considerations in Planning Conservation-Effective Farming Systems in the Semiarid Tropics	S.M. Virmani	Kasetsart University	Bangkok, Thailand	1988	English	Paper
Elimination of Tropical Forests: Some Practical Issues	None	International Agricultural Development Service	Arlington, Virginia, USA	1984	English	Paper
Metodologi Penelitian untuk Daerah Aliran Sungai	G. Budihardjo	None	None	None	Bahasa	Paper
Soil Conservation Strategies in the Context of Shrinking Resource Base	S. Rimwanich	None	Bangkok, Thailand	None	English	Paper
Soil Test		SoilTest, Inc.	Illinois, USA	1983	English	Handbook
Management of the Forests of Tropical America: Prospects and Technologies	Figueroa, J.C. et al. (editors)	Institute of Tropical Forestry, USDA	USA		English	Handbook
Hill Lands: Proceedings of an International Symposium	Luchok, J. et al. (editors)	West Virginia University Books Office of Publications	West Virginia, USA		English	Handbook

Belfort Instrument Co. 1985 - 1986 Catalog	Belfort Instrument Co.	Baltimore, Maryland, USA	1988		English	Handbook
Philippine Water Resources Abstracts: Biennial Cummulated Index	Philippine National Water Resources Council	Manila, Philippines		Vol. 16-A	English	Handbook
National Handbook of Recommended Methods for Water-Data Acquisition	Agencies of USA	USA			English	Handbook

Appendix 7.10. List of Project Publications.

PUBLICATION	NO. OF COPIES
A. NEWSLETTER	No. of Copies
Volume I No. 1-4	4,000
Volume II No. 1-4	4,000
Volume III No. 1-4	5,500
Volume IV No. 1-4	8,000
B. PROCEEDING	
1. Symposium on Watershed Management and Conservation for Productive and Protective Uplands in the ASEAN Region.	500
3. Workshop on Standardization of Guidelines for Watershed Management Approaches and Researches in the ASEAN Region	500
4. Workshop on Land-Use Planning in A Watershed Context	750
5. Seminar on Watershed Research and Management Practices	1,000

Appendix 7.10 continued ...

PUBLICATION	NO. OF COPIES
6. Workshop on Roading and Development Activities in Relation to Soil Erosion and Sedimentation Control in Watersheds	1,000
7. Workshop on Standardization and Technology Transfer of Watershed Research and Management Techniques, Practices and Terminologies	1,000
C. Abstracts (Vol. I and II)	
Abstracts of Watershed Management Research and Related Studies in the ASEAN Region	
- Volume I	1,000
- Volume II	1,000

Appendix 7.11. List of PCC and PSC Members.

PROJECT STEERING COMMITTEE

Indonesia

Ir. Bambang Sukartiko
Ministry of Forestry
Jakarta

Malaysia

Mr. Mok Sian Tuan
Assistant Director-General of Forestry
Forestry Department Headquarters
Jl. Mahameru, Kuala Lumpur

Dr. Freezailah bin Che Yeom
Deputy Director-General
Forestry Department Headquarters
Jl. Mahameru, Kuala Lumpur

Mr. Sheikh Ibrahim
Assistant Director-General
Forestry Department Headquarters
Jl. Mahameru, Kuala Lumpur

Mr. Hashim Saad
Director of Silviculture
Forestry Department Headquarters
Jl. Mahameru, Kuala Lumpur

Thailand

Mr. Udhai Chanphaka
Director
Watershed Management Division
Royal Forest Department
Bangkok

Mr. Preecha Ob-eye
Director
Watershed Management Division
Royal Forest Department
Bangkok

Philippines

Mr. Edmundo V. Cortes
Director
Bureau of Forest Development
Diliman, Quezon City

Mr. Ireneo L. Domingo
Director
Forest Management Bureau
Diliman, Quezon City

Mr. Cirilo B. Serna
Director
Forest Management Bureau
Diliman, Quezon City

PROJECT COUNTRY COORDINATORS

Indonesia

Ir. Engkah Sutadipradja
Direktorat Konservasi Tanah
Manggala Wanabakti
Jl. Gatot Subroto, Senayan
Jakarta

Malaysia

Mr. Abdul Rashid bin Mat Amin
Director of Silviculture
Forestry Department Headquarters
Jl. Mahameru, Kuala Lumpur, Malaysia

Mr. Mahdan Bongkik
Silviculture Division
Forestry Department Headquarters
Jl. Mahameru, Kuala Lumpur, Malaysia

Mr. Chin Yue Mun
Forest Management Unit
Forestry Department Headquarters
Jl. Mahameru, Kuala Lumpur, Malaysia

Thailand

Mr. Samarn Rouysungnern
Chief, Watershed Research Section
Watershed Management Division
Royal Forest Department
Bangkok

Philippines

Mr. Antonio Principe
Assistant Regional Director
Region III
Bureau of Forest Development
San Fernando, Pampanga

Mr. Dominador P. Urmatan
Assistant Chief
Watershed Management Division
Bureau of Forest Development
Diliman, Quezon City

Mr. Ramon P. Paje
Project Management Staff
Forest Management Bureau
Diliman, Quezon City

Ms. Rosario P. Labaro
Foreign-Assisted and Special Project Office
Department of Environment and Natural Resources
Diliman, Quezon City

Appendix 7.12. List of USAID Officers involved in the ASEAN-US Watershed Project.

1. Mr. Donald N. Merville (January - September 1984)
   USAID/ALO
   Roxas Blvd., Manila

2. Mr. Bruce M. Blackman (October 1984 - June 1988)
   USAID/ALO

3. Mr. Karl Schwartz (July 1988 - December 1988)
   USAID/ALO

4. Mr. Lawrence Ervin (January 1989 - date)
   USAID/ALO

5. Ms. Angelita Obmasca (January 1984 - March 1988)
   Training Assistant

6. Mr. Noel Ruiz (April 1988 - date)

Appendix 7.13. List of Project Implementation Letters (PILs).

No.	Date	Purpose	Amount
1	08/30/83	Signature authorization to BFD	N/A
2	02/02/84	Authorization to purchase vehicles	38,615.
3	02/15/84	Proc. for liquidating cash advances.	N/A
3a	01/07/88	Auth. Indirect Costs, UPLB	
4	02/28/84	Auth. for local equipment purchase.	N/A
5	04/23/84	Proc. for planning approval	N/A
6	07/30/84	Seminar on Watershed Research	40,123.
7	09/27/84	Study Tour of ASEAN Watershed Proj.	44,000.
8	09/28/84	Staff salary authorization. (Saplaco, Sittichai, Achlil)	N/A
8a	05/05/86	Prof. Staff remuneration. (Saplaco, Jasmin, Tongchai)	N/A
8a1	07/20/87	Amend 8a.	N/A
8a2	02/18/88	Extend PD, TD appointments to 12/31/88	N/A
8a3	07/18/88	Amend 8a2.	N/a
8b	07/28/86	Amend 8a.	3,000.
8c	10/15/86	Staff salary (Castillo)	2,550.
8d	10/15/86	Staff salary (Hardjono)	25,035.
8e	10/14/87	Staff salary (Hardjono)	23,169.
9	10/30/84	ASEAN Watershed Workshop	41,854.
10	02/08/85	Training Course on Watershed Mgt. and Environmental Monitoring	4,000.
11	03/08/85	Research support equipment Malaysia, Philippines, Thailand	137,900.
12	03/19/85	Seminar on Forest Land Use and Rehabilitation	18,500.
13	05/07/85	Study tour to US on Watershed Research Mgt. & Admin.	65,000.
14	08/07/85	Adv. Mgt. Trng. Seminar	45,020.
15	07/24/85	Management Information Services	24,445.

15a	07/25/86	Change name of supplier from Paragon Printing to CRDL Printing Press	N/A
16	06/26/85	Kadaroesman Achlil Appt. (CY '85)	17,400.
17	07/24/85	US Study Tour on Watershed Instrumentation	54,890.
17a	08/28/85	Amend 17 (EWC, Books)	1,265.
17b	09/12/85	Amend 17 (addn'l. airfare cost)	1,512.
18	09/24/85	Seminar on Watershed Research & Mgt.	21,100.
19	10/08/85	Technical Consultation Meeting	3.570.
20	02/11/86	Training Course on Water Management	27,670.
21	03/06/86	Workshop on Integrated River Basin Development	1,700.
22	05/19/87	Intn'l. Symposium, Forest Hydrology	10,000.
23	05/14/86	Local purchase (IBM Computer)	7,503.
23a	05/19/86	Add'l. typewriter to PIL 23	1,295.
23b	08/25/86	Additional software and 3 airconditioners	3,249.40
24	05/27/86	Training Course on Watershed Research and Management	34,500.
25	06/09/86	Study Tour of ASEAN Watershed Research	22,500.
26	06/09/86	Activity authorization	N/A
26a	07/08/86	Workshop on Roading & Dev. Activities	20,000.
26b	07/31/86	Roving Seminar	17,000.
26ba1	02/09/87	Amend 26b (Per diem, In-country travel, honoraria)	831.
26c	09/10/86	Technical consultation mtg.	2,380.
27	08/20/86	IUFRO World Congress	19,500.
28	09/29/86	Workshop on Standardization and Tech. Transfer	21,500.
29	10/28/86	Research Training Program	13,500.
30	11/24/85	Editorial Services	400.
31	02/09/87	Local procurement of office equipment	3,600.
31a	09/18/87	(Additional) Amend 31.	600.

32	02/26/87	Watershed Project Management Course	30,500.
33	03/03/87	Puerto Rico Workshop	20,200.
34	04/15/87	Decommitment of excess funds	(51,123.)
35	03/10/87	Project Evaluation	23,500.
35a	07/14/87	(Additional amount) Amend 35.	900.
36	03/17/87	Sound-slide production (Rex Navarro)	1,250.
37	05/22/87	Training Course on Soil Erosion and Water Yield	34,000.
38	07/21/87	Training Course on Statistical Hydrology	35,000.
39	07/02/87	Translation Services	2,000.
40	08/08/87	Hardjono's trip to Indonesia	1,594.50
41	07/17/87	Steepland Agriculture Conf.	17,280.
42	01/04/88	Int. Soil Conservation Conference	5,748.
43	10/28/87	Country Coordinators Meeting	7,000.
44	10/07/87	Roving lecture	19,000.
45	02/16/88	Training Course on Financial-Economic Analysis	37,000.
46	2/23/88	Local purchase of research equipment	12,740.
47	03/14/88	Planning Workshop on Manuals	4,300.
48	03/24/88	Payment of Fixed PSA Fee(FETCO)	3,800.
49	05/03.88	Planning Workshop on the Future of ASEAN Cooperation in Watershed Management	11,400.
49a	06/17/88	Planning Workshop on the Future of ASEAN Cooperation Amend 49 (Additional amount)	1,076.
50	05/25/88	Training Course on Soil Erosion/ Sedimentation Control and Monitoring	23,000.
51	06/30/88	Extension of PACD to December 31, 1989	N/A

51a	08/04/88	Planned Activities and Estimated Budget	N/A
52	08/16/88	Project Country Coordinators and Steering Committee Meeting	5,600.
53	09/08/88	De-earmark/Decommitment of Excess Funds	77,354.69
54	09/16/88	Management Information Services	28,000.
55	09/09/88	Training Course on Statistical Hydrology	27,500.
56	11/04/88	Training Course on Computer Applications	27,000.
57	01/12/89	Salaries of the Project's Professional Staff	38,995.
58	03/06/89	Training Course on EIA	18,322.