

PDAAS-334
IAN-42632

**AGENCY FOR
AGRICULTURAL RESEARCH AND DEVELOPMENT**



**Narrative Report
on the
Applied Agricultural Research Project**

4970302

004012

000103

**FOR THE
MONTH OF JULY 1983**

S

TABLE OF CONTENTS

	<u>Page</u>
I. Introduction	1
II. Personnel	1
III. Overseas Training	2
IV. Local Training	3
V. Major Conferences, Submissions, Decisions and Events	5
VI. Problems	7
VII. Appendices	8

NARRATIVE REPORT
OF THE
APPLIED AGRICULTURAL RESEARCH PROJECT
JULY 1983

I. INTRODUCTION

This is the first AARP/RMI monthly report following the format called for in AARP/RMI Procedures Guidance No. 6 on Monthly, Quarterly and Narrative Reports. A copy of the Guidance was included as Appendix XIII of the Narrative Report for the month of May 1983. In accordance with that Guidance, we shall provide brief monthly reports which follow the requirements of the AARD/RMI contract. Quarterly reports will append quarterly reports written by each long term AARP/RMI specialist. The first quarterly report under this new system has been issued for the quarter ending in June 1983.

II. PERSONNEL

Dr. Bernardo Gabriel, Pest Management Specialist/ Entomologist, arrived in Indonesia during the month, and after orientation in the Jakarta/Bogor area, proceeded to Banjarmasin when he is assigned to the Research Institute

for Food Crops (BARIF). All AARP/RMI specialists at Banjarmasin are expected to move after about one year to facilities being constructed at Banjarbaru. Altogether we have a total of twelve long term specialists in Indonesia; five in Bogor, one in Jakarta three at Banjarmasin and three at Maros. The next expected arrival is Dr. William Vanstone, Milkfish Breeder. Originally scheduled for assignment at the new inland fisheries station being constructed at Gondol, it has just been decided that Dr. Vanstone will be posted for the first year of his two year assignment at the Bogor Research Institute for Inland Fisheries where he will be utilized on fresh as well as brackish water fish.

III. OVERSEAS TRAINING

The RMI contract does not require the monthly narrative report to contain a section on training. However, as training is an important part of the contract, we shall include a brief section on a monthly basis.

Six participants from inland fisheries research institutes and stations at Bogor, Jakarta, Gondol, and Maros went to Taiwan during July for a two month training program in brackish water aquaculture. Two participants from the National Library of Agricultural Sciences, one

from the Central Research Institute for Fisheries, and one from the Research Institute for Inland Fisheries returned from one month of training in library, information management and publication training at the International Center for Living Aquatic Resource Management in Manila; Ms. Novenny A. Wahyudi of the Bogor Research Institute for Inland Fisheries returned from a three month aquaculture program at Auburn University; and Dr. Purwito Martosubroto, Director of the Jakarta Research Institute for Marine Fisheries returned from a three month program in R&D Management Consultancy at the Denver Research Institute.

An updated list of AARP/RMI participants is included at Appendix IV. As of 31 July, 56 AARP participants had gone for short term training abroad, including 49 under the RMI contract.

IV. LOCAL TRAINING

Much of the work of AARP/RMI specialists can be considered training in a non-formal sense. However, most specialists are also conducting training programs of a more formal nature. For example, this month:

1. Dr. Chhorn Lim, Milkfish Nutritionist, gave a lecture to staff of the Bogor Research Institute for Inland Fisheries on various principles of fish production.
2. Seminars conducted by AARP/RMI specialists at the Maros Research Institute for Food Crops (MORIF) during July were:
 - July 2 : Dr. Anwar Rizvi, "The LATEX test for detecting plant viruses".
 - July 23: Dr. I.R. Corpuz, "Solving and Preventing Sulfur Deficiency Problem".
 - July 30: Dr. F von Fleckenstein, "The Art of Making a Good Table"

Experts at MORIF report that many staff numbers participated in questioning and comments, showing a good working command of English. Hopefully, such practice in time will lead to more ALIGU passes which are essential before participants can go abroad for short term training under AARP.

V. MAJOR CONFERENCES, SUBMISSIONS, DECISIONS AND EVENTS

1. An AARP negotiation team spent July 25-30 in completing negotiations with Mr. G. Twentyman, representation of Connell Brothers Company of San Francisco for a Procurement Services Agent (PSA) contract. After Government clearances the contract will be signed.

Under the contract, Connell Brothers will be responsible for procurement of AARP equipment in accordance with GOI and USAID regulations, and shipping to Indonesia ports.

A list of equipment complete with specifications, and valued at \$ 1.3 million, is already available and will be officially submitted to the PSA at the time of contract signing. Dr. Collier, Mr. Fritz and Mr. Harwood assisted in the negotiations.

2. A Ford Foundation sponsored Workshop on the Sustainable Intensification of Agriculture in Tidal Swamplands was conducted at Banjarmasin July 18-23. Dr. Collier, AARP/RMI specialists assigned to BARIF, and nine BARIF staff members participated along with 30 other scientists and administrators, including Mr. Sadikin, Dr. Manwan and Mr. Abdullah. The purpose was to identify key research questions for the development of tidal swamplands. Dr. Collier participates in the Executive Committee which planned the Workshop.

3. The Project Leader, Mr. Abdullah, chaired a two day review of the Project held at Cipanas to plan for a report to BAPPENAS. Dr. Collier, Mr. Fritz and Mr. Harwood participated during the second day.
4. Construction on the auditorium for the Bogor Research Institute for Food Crops, temporarily halted, has now resumed.
5. Dr. McIntosh (IRRI/RMI Consultancy Agreement) has prepared a position paper on liming in Indonesia which is considered to be a comprehensive and current treatment of the topic.
6. All AARP/RMI specialists at MORIF participated in meetings held by Dr. Farid Bahar to review research progress, problems faced and new directions. Diane Barrett, Tuber Crops Post Harvest Processing Specialist, attended a number of meetings at the Karawang Research Substation for Food Crops to assist in the development of new research proposals.
7. Diane Barrett has submitted a trip report describing cassava production and processing in Kabupaten Karawang, Kecamatan Telukjambe. Dr. Chhorn Lim has submitted a trip report describing inland fisheries activities at

Bali, Pasuruan (Surabaya) and Japara (near Semarang). These trip reports will be included with their Quarterly Activity Reports to be appended to the Sixth Quarterly Narrative Report (July, August, September 1983) in accordance with the reporting guidelines referred to in the Introduction.

VI. PROBLEMS

1. Users of CJ-7 Jeeps procured under AARP should be aware that the front wheel brakes use a fiber piston of inferior quality which tends to seize in the cylinder and ruin the wheel hub. Replacements should be steel pistons from Kelsey-Hayes. Unfortunately, the newest AARP Jeeps will also arrive with these faulty pistons. These facts were confirmed by a visit of Mr. Harwood to the Jeep assembly plant.
2. English language proficiency continues to be a problem for AARP participant candidates. We can sometimes get candidates enrolled in training programs, but later have to withdraw them after they fail the ALIGU test. There are indications that USAID will apply its rules quite strictly in this regard.

VII. APPENDICES

Appended are monthly activity reports submitted by the AARP/RMI teams at MORIF (Appendix I), BARIF (II) and Dr. McIntosh of IRRI (III). The BARIF report includes a note on publishing in Indonesian scientific journals which should be of general interest. As stated in the reporting guidelines, individual specialists need report formally only on a quarterly basis. A training report is included as Appendix IV.

Monthly Report
for
The Specialist Team at Maros
July 1983

July was a month of continuation of previously initiated activities:

Dr. Anwar Rizvi, Plant Pathologist, made a trip to Malino to see Markisa disease problems. He also made a follow-up trip to Palu in Central Sulawesi, in the company of the head of Plant Production for the island of Sulawesi, Mr. Kaimuddin, and the head of Entomology at MORIF, Ir. Shagir Sama, to check on the pest and disease situation in Palu and Parigi, and to advise extension officials and farmers. While he was there, he participated in a meeting on the pest problems in the area which was attended by both local and national officials. In addition, he supervised the completion of the cataloguing of chemicals in the pathology laboratory and helped the new staff member, Samuel Pakan, speed up the schedule for his thesis examination. Mr. Pakan has now just passed his examination, and, as Ir. Sam Pakan, he will soon begin training in Bogor in seriological techniques (purification of rice-tungro virus and preparation of anti-serum) and other tungro-related laboratory work. Dr. Rizvi finished the month by making an orientation trip to Bone-Bone to see the disease and pest situation in that area, to advise farmers, and to develop plans for future work in that area.

Dr. Fritz von Fleckenstein, Agricultural economist, continued work on the FARMAP questionnaire being developed in the Bajau Bodoa study, supervised the work going on in Bajau Bodoa, helped prepare the paperwork for the participants in the upcoming FARMAP course in Bangkok, and gave some preparatory orientation in FARMAP to those participants. Since the Bajau Bodoa questionnaire is based on FARMAP, it was not too difficult to introduce the participants, particularly Ir. Hadijah, who is intimately involved in the Bajau Bodoa project, to those concepts. Ir. Nadjib Nour, however, has also had some opportunity to participate in the Bajau Bodoa field work, and was able to get a general grasp of FARMAP concepts. As a result of his experience in preparing the paperwork with these participants. Dr. Fleckenstein prepared a set of completed forms which he distributed to the other members of the team to enable them to help future candidates more efficiently. He is still waiting for a part

for his computer in order to begin using it, but he is on the verge of making the final specifications for the computers to be ordered for Maros.

Dr. I.T. Corpuz, soil scientist, oriented one staff member who was taking over responsibility for the INSFFER research programme at MORIF from another staff member who went on maternity leave. He also visited Bone-Bone with 2 staff members to establish 3 experiments there, and visited sites in Wajo and at the Lanrang sub-station. He also helped establish research projects on the Maros research farm. Finally, he is helping the soils department review their procedures for determining soil texture, following complaints raised in a meeting held to review the progress of the department. (See Meetings, below.)

Hanyah Haneng, secretary, received her doctoranda from Universitas Hasanuddin for her thesis entitled "The Role of Translation in National Development".

Seminar Series

- Formal individual seminars project specialists were launched in July:
- 2 July : Dr. Anwar Rizvi, "The LATEX test for detecting plant viruses."
 - 23 July : Dr. I.T. Corpuz, "Solving and Preventing Sulfur deficiency problem."
 - 30 July : Dr. F. von Fleckenstein, "The Art of Making a Good Table."

Response to these seminars was quite good, and many staff members participated in the questioning and comments after the talks, showing a good working command of English. Interest was also shown in the substance of the talks, and the germ of future research was contained in some of them as well.

Meetings

All of the specialists participated in meetings held by Dr. Farid with individual departments to review the progress of research and the problems faced by the staff members, and to indicate new directions. One interesting point that was noted in the meetings was that budgeting for research projects or experiments in the future would be done on the basis of explicit proposals for each project or experiment, rather than by the allocation of points as in the past. This system will give both greater freedom and greater responsibility to the researcher, and should result in better research.

Monthly report for July, 1983
RMI, Banjarmasin

Introduction

This month we welcomed Dr. Bernardo Gabriel, pest management consultant to the RMI Banjarmasin office. He and Dr. William Collier along with 30 other scientists and administrators including Mr. Sadikin, Mr. Abdullah and Dr. Manwan participated in the Workshop on the Sustainable Intensification of Agriculture in Tidal Swamplands held here from 18 - 23 of July. The workshop was sponsored by the Ford Foundation and helped to identify key research questions for the development of tidal swamplands.

Personnel

Dr. Gabriel has assumed the duties of Head of Party except for reports and accounting this month. Most of the activities of Dr. Brown this month were administrative. Besides participating in the workshop he helped in the writing of a preproposal for tidal swamp research with BALITTAN staff and with the writing of the final report of the workshop. Ms. Watson spent a week in Bogor and Jakarta this month preparing for the workshop and working on a bibliography of tidal swamps. She has been on sick leave throughout the last half of the month with an as yet undetermined illness.

Training

Nine BALITTAN staff members actively participated in the tidal swamp workshop. Many were junior researchers who received a week of excellent training with many senior scientists. Also in July four BALITTAN researchers left for MSc degree education and two for short term training. Only one researcher returned this month from getting his Ir degree, and seven new SMPA graduates were added to the staff.

Five more researchers are planning to go to IRRI for short term training within the next three months. The decision whether to send Ir. Hadiatmi to Bogor for a month of corn breeding training in August is still pending and Ir. Rohlini and Ir. Muhrizal are now being considered for INSFER training at IRRI rather than irregular training as previously planned. As of the end of July 1 Phd, 7 MSc, 2 training, and 20 Ir candidates are away for their respective programs.

Construction, Equipment, and Other Significant Items

There is nothing significant to report in these categories this month.

APPENDIX IIA

No. : WR-020
To : AARP - GOI Project
From : Kevitt Brown
Subject : Visit of Dr. David Hill, Editorial Consultant
Publitbangtan, Bogor
Date : 30 June, 1983

Dr. Hill encouraged BALITTAN staff members to write and publish scientific articles in four journals under his editorship :

- 1) Indonesian Journal of Crop Science (IJCS)
 - 2) Indonesian Journal of Agricultural Research and Development (IJARD)
 - 3) Warta Penelitian dan Pengembangan Pertanian (WPPP)
 - 4) Journal Penelitian dan Pengembangan Pertanian (JPPP)
- IJCS is only for scientific articles, will be refereed by two persons and has a format like Crop Science from the US. We should submit articles in English and can expect a reply within 3 months. They are more concerned with quality of research than quality of English and can make graphs and figures for us by their staff. Any researcher including junior staff can publish.
- IJARD is only for senior researchers and consultants although junior staff may be second author and can cover wider topics which affect policy decisions. It is also in English
- WPPP is a Newsletter in Indonesia language, somewhat similar to the IRRI Newsletter. It is semi-popular.
- JPPP is an Indonesian language journal but with less international prestige.

We can contact Mr. Hill at the address below or can deliver manuscripts to Mr. Mahyudinsyam at the below address :

Mr. David Hill
Editor
Indonesian Journal of Crop Science
Jl. Ir. H. Juanda 20
Bogor

Mr. Mahyudinsyam
Puslitbangtan
Jl. Merdeka 99
Bogor

COOPERATIVE CRIFC - IRRI PROGRAM
THE INTERNATIONAL RICE RESEARCH INSTITUTE

CABLE ADDRESS :
IRRI/ID BOGOR

August 2, 1983

MAIL ADDRESS
COOPERATIVE CRIFC - IRRI PROGRAM
IRRI - P.O. BOX NO. 107
BOGOR, INDONESIA

To : Dr. J. Ritchie Cowan
IRRI Liaison Scientist

From : J.L. McIntosh *J.L. McIntosh*
Farming Systems Liaison Scientist

Subject : Monthly Report, July 1983

I. Principal Activities and Accomplishments

- A. Prepare position paper on Liming. Lime as a soil amendment has not been widely used in Indonesia. With the opening and development of the rainfed upland areas in Sumatra, Kalimantan and Sulawesi the need for lime use has become more apparent. The cost of a major lime program will be large. Consequently, lime use rational becomes very important. An academic approach may be idealistic and unworkable. But a general and prognostic approach, simply may not be effective. A brief review on "Liming Soils" was prepared in consultation with colleagues. It covers some of the situations where lime may or may not be needed in Indonesia. The guidelines presented are based on research experience from the Central Research Institute for Food Crops, mostly from the Cropping Systems Research Program. See Appendix I.
- B. Overview of Cropping/Farming Systems Research. This review was prepared to provide background information for the AARD Highlights. See Appendix II.
- C. Discussions with counterparts on research plans.
- D. Wheat-rice research plots.

II. Miscellaneous Activities

A. Consultations

Ms. Miller	World Bank
Bill Ward	IADS
S. Wittwer	Michigan State and LIPI
Rudy Navarro	IRRI, Cropping Systems
V. Cabanilla	IRRI
USAID	Upper River Watershed Project

- B. Trips - 2 days - Sukamandi and Lembang with Dr. Wittwer to see and discuss Indonesian agriculture and agricultural research.
- C. Also attended Dr. Wittwer's seminar on future agricultural technology development.

III. Constraints and Problems

Slow time of year!

IV. Plans

- A. Pursue Crop/Livestock research project proposal.
- B. Help develop specific research plans for farming systems research in Batu Raja, Jambi and East Kalimantan and lime fertility studies in Citanduy.
- C. Take R&R. Attend ASA Meetings.
- D. Help prepare reports for the next Asian Cropping Systems Working Group Meeting.

JLM:fh

LIST OF AARP/RMI PARTICIPANTS OF JULY 31, 1983

No.	N A M A	EMPLOYING OFFICE	COURSE/OBJECTIVES	INSTITUTIONS/COUNTRY	DURATION	
<u>DEPARTURES:</u>						
1.	Sri Sumastri	RIIF/Bogor	Brackish Water Aquaculture	Taiwan Fisheries Research Institutes, Keelung, Taiwan	July 9 - Sept. 9, '83	
2.	Asmin Ismail	RIIF/Jakarta			do	do
3.	Agus Priyono	RIIF/Bali			do	do
4.	Supriyono Eko Wardoyo	RIIF/Maros			do	do
5.	Tadjuddin Dauly	RIIF/Bogor			do	do
6.	Tridjoko	RIIF/Bali			do	do
<u>RETURNEES:</u>						
7.	Waluyo Subani	RIMF/Jakarta	Library Training	International Center for Living Aquatic Res. Magnt. in Manila	June 6 - July 6, '83	
8.	Endang Pratiwi	GRIF/Jakarta	do		do	
9.	Rackmat	NALS/Bogor	do		do	
10.	Tuti Sulasmi	NALS/Bogor	do		do	
11.	Noverny A. Wahyudi	RIIF/Bogor	Aquaculture Trg. Prog.	Auburn University Alabama, USA	March 18 - July 15, '83	
12.	Purwito Martosubroto	RIMF/Jakarta	R&D Mngt. Consultancy Training	Denver Res. Inst. Denver Colorado, USA	March 23 - July 01, '83	
13.	Ati Sri Duriat	LERIH/Lembang	Elisa Technique	American Type Culture Center in Rockville Maryland, USA	Feb. 20 - June 9, '83	
14.	Nani Sumarni	LERIH/Lembang	Interdisciplinary research in Plant Breeding	Asian Vegetable Re. & Dev. Center, Taiwan	Nov. 07 - May 07, '83	
15.	Etti Purwati	do	do	do	do	
16.	Yoyo Sulyo	do	do	do	do	
17.	R.E. Suriaatmadja	do	do	do	do	
18.	Kosasi Kadir	FPRI/Bogor	Woodworking & drying & research proj. planning & evaluation.	Forest Products R&D Inst. Los Banos, Philippines	March 7 - April 7, '83	

NO	N A M E	EMPLOYING OFFICE	COURSE/OBJECTIVES	INSTITUTIONS/COUNTRY	DURATION
19.	Mas Ismunadji	BORIF/Bogor	Spec.Trng. in upland crops physiology	Asian Vegetable Res. & Dev. Center, Taiwan	Nov.11 - Dec. 01,83
20.	Mochamad Sirdan	CARP/Jakarta	Project Preparation & Evaluation in Ag. and Rural Development	Statistical, Economic & Social Research & Trg. Center for Islamic Countires, Turkey	Oct. 18 - Nov. 12,83
21.	Syafril Lamsayun	CARP/Jakarta	Procurement Training	TransCentury Corp,USA	Oct. 15 - Nov. 14,83
22.	Abdussamad Syahrani	BARIF/Banjarmasin	do	do	do
23.	A.M. Laponangi	MORIF/Maros	do	do	do
24.	Warsito Hutomo	CAQ/Jakarta	Agric.Proj.Planning & Analysis, Section II	USDA, Washington,DC	Sept.7 - Nov. 11,82
25.	Mohamad Mansur	CRIIC/Bogor	Agric.Proj.Planning & Analysis Section II	USDA,Washington,DC	Sept.7 - Nov. 11,82
26.	Hafni Zahara Syukri	CARP/Jakarta	do	do	
27.	Wahyadi Sosrowardoyo	CRIFI/Jakarta	Applic.and Diffusion of Agric.Research Results to the Community Level.	Iowa State Univ.USA	Aug.25 - Oct.1,82
28.	Sofyan Ilyas	RIFT/Jakarta	Determination & Prevention of Post-harvest Food Losses	Cornell Univ. USA	Sept. 6 - Oct.13,82
29.	Achmad Hidayat	CAQ/Jakarta	Plant Quarantine	USDA, Washington,DC	July 19 - Sept.17,82
30.	Dewa M. Tantera	BORIF/Bogor	Integrated Pest.Mgmt.	Purdue Univ. USA	June 9 - July 23,82
31.	Sudiarto	CRIIC/Bogor	Agric.Research Method	Kansas State Univ.USA	May 31 - July 23,82
32.	Lalu Sukarno	BORIF/Bogor	do	do	do
33.	Siti Sufiani	MORIF/Maros	do	do	do
34.	M. Saleh Pandang	MORIF/Maros	do	do	do
35.	Wafiah Akib	MORIF/Maros	do	do	do
36.	Tambak Manurung	CIRIAS/Bogor	do	do	do
37.	Didi Suardi	CRIFC/Bogor	do	do	do

NO	N A M E	EMPLOYING OFFICE	COURSE/OBJECTIVES	INSTITUTIONS/COUNTRY	DURATION
38.	Yono C. Rahardjo	CRIAS/Bogor	Agric. Research Method	Kansas State Univ. USA	May 31 - July 23, 82
39.	Budhojo Sukotjo	Prof. and Proj. Form Unit Jakarta	Agric. Research Mngt.	Washington, DC and Hawaii, USA	June 6 - 12, 82 June 18-21, 82
40.	Tambunan SM Manungkol	BORIF/Bogor	Estab. Data Bases & Analiy. Syst. for Econ. Decision making in Agric.	University of New Mexico	June 6 - Aug. 13, 82
41.	Rachmat Kartapradja	LERIF/Lembang	Veg. Crop. Prod. and Market	Rutgers Univ. USA	July 12 - Aug. 20, 82
42.	Artaty Wijono	CRIFI/Jakarta	Ag. Comm. & Med. Strategy	Iowa State Univ. USA	July 12 - Aug. 20, 82
43.	Abisono	TARII/Tg. Karang	do	do	do
44.	Adi Widjono	CRIFC/Bogor	do	do	do
45.	T.H. Mangunsong	Reg. Ag. Quarant/ Jkt	do	do	do
46.	Fathan Muhadjir	BORIF/Bogor	Wheat & Maize Phys.	CIMMYT, Mexico City	July 20 - Aug. 25, 82
47.	Nurlaila Hasbullah	BARIF/Banjarmasin	Rice Production	IRRI, Philippines	July 1 - Aug. 27, 82
48.	Nurul Aida	BARIF/Banjarmasin	Rice Production	IRRI, Philippines	July 1 - Aug. 27, 82
49.	Achmad Dimiyati	BORIF/Bogor	Tech. & Econ. Aspects of Soybean Production	Univ. Illinois, USA	May 10 - Aug. 6, 82
<u>TRAINING OUTSIDE RMI CONTRACT:</u>					
50.	Achmad Sarnita	RIIF/Bogor	Study Milkfish Cultiv. Methods	SEAFDEC/Philippines Institute of Marine Biologi and Gulf Coastal Fisheries Center/USA	July 5 - Aug. 15, 81
51.	H a n i a h	do	do	do	do
52.	Suningrat	NIAS/Bogor	Regional Micrographic T. Course	SEARCA/Philippines	Jan. 10 - 23, 82
53.	Sumardi Dahlan	do	do	do	do

NO	N A M E	EMPLOYING OFFICE	COURSE/OBJECTIVES	INSTITUTIONS/COUNTRY	DURATION
54.	Azis Arifin	LERIF/Lembang	The Decimal Long of Cip. Comparative Study for Tuber Crops Research Comparative for Wheat Research	Peru CIAT/Columbia CIMMYT/Mexico	Feb. 22 - 26, 82 Feb. 29 - March 1, 82 March 3-4, 1982
55.	Surrehmat Kusumo	CRIFC/Bogor	do	do	do
56.	Sundaru	BORIF/Bogor	Management Agric. Organ	USDA/USA	May 17 - July 9, 82