

**TRAINING NEPALESE IN AGRICULTURAL RESEARCH
AND DEVELOPMENT PLANNING**

FINAL PROGRESS REPORT

to the

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by the

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CONTENTS

	Page
INTRODUCTION	
Background	1
Objectives	3
Targets	3
Designs	5
Personnel changes	6
TRAINING	
Degree Training	8
Master's Level Training	8
Ph.D. Level Training	10
Non-degree Training	11
Training Received Outside Nepal	11
Training Programs Organized in Nepal	13
Estimated Benefit of Training Under this Project Support	15
RESEARCH	
Research Activities Participated Directly by the ADC Staff	17
Research Activity Financially and Technically Supported by this Project	19
Research Activities with Project Assistance in Methodology	19

SEMINARS AND STUDY TOURS

Seminars Organized in Cooperation with Other Institutions	21
Seminars Organized for Visiting Scholars	22
Seminars Organized for ADC Fellows	23
Seminars Attended by the Project Supported Participants	24
Study Tours	24

PUBLICATIONS

Seminar Reports	26
Research Paper Series	26

REFLECTION	30
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APPENDICES:

The following abbreviations are used for various institutions throughout this report:

HMG	His Majesty's Government of Nepal
MFAI	Ministry of Food, Agriculture and Irrigation
MFA	Ministry of Food and Agriculture
MOA	Ministry of Agriculture
PACD	Planning and Coordination Division (MOA)
EPAD	Evaluation and Project Analysis Division (MOA)
DA	Department of Agriculture (MOA)
DAHLD	Department of Animal Health and Livestock Development (MOA)
DFAMS	Department of Food and Agricultural Marketing Services (MOA)
ADB	Agricultural Development Bank (MOA)
AIC	Agricultural Inputs Corporation (MOA)
NFC	Nepal Food Corporation (MOA)
APROSC	Agricultural Projects Services Centre (MOA)
ICP	Integrated Cereals Projects (DA/MOA)
CEDA	Centre for Economic and Development Administration, Tribhuvan University
USAID	United States Agency for International Development
ADC	Agricultural Development Council, Inc.

INTRODUCTION

Background

The Agricultural Development Council (ADC) initiated a small program in Nepal in 1970 supporting training and research in economic and human problems related to agricultural and rural development. The program was similar to ADC programs in other Asian countries which were started in 1953.

Between 1970 and 1974 the Nepal program was administered by the Council's Associate for Thailand through his frequent visits to Nepal. The Associate arranged for professional consultations between officials and scholars in Nepal and Thailand, planned and conducted seminars addressing important development issues and interviewed candidates for ADC sponsored degree training abroad.

In January 1975, the Council assigned a Visiting Professor to Nepal working with the Center for Economic Development and Administration (CEDA) at Tribhuvan University. To carry out other ADC activities, this Visiting Professor also had working relationships with the Women's Affairs Training Center of the Home and Panchayat Ministry, the Agricultural Development Bank, and the newly established Agricultural Projects Services Centre. Subsequently, he became ADC's resident Associate in Nepal.

After 1976, this small Nepal program was substantially expanded mainly due to the provision of a USAID grant and a corresponding funding increase on the part of ADC.

On September 30, 1976, the United States Agency for International Development (USAID/W) and the Agricultural Development Council, Inc. (ADC/NY) signed a Private Voluntary Organization (PVO) grant (Grant No. ADC/ASIA-G-1199) to provide partial support for a Project on Training Nepalese in Agricultural Research and Development Planning for a period of five years, October 1, 1976 to September 30, 1981.^{1/}

The total budget for this five-year Project was \$1.5 million of which the USAID share and the ADC share were \$1.00 million and \$0.40 million respectively.

^{1/} The Letter of Agreement between the Ministry of Food, Agriculture and Irrigation (MFAI) of His Majesty's Government of Nepal and the Agricultural Development Council to implement this Project was signed on October 21, 1976 (Appendix I).

The rest was shared by HMG. All parties concerned have fulfilled their commitments.2/

Since the start of this Project, ADC submitted semi-annual reports and annual reports to the USAID on time.3/ The first and second annual reports included annual reviews on the progress of work. According to the Agreement between USAID and ADC, no third review is required. However, the Fourth Annual Report was used for the final review held in December 1980. This final progress report will be the last one for this Project.

2/ Initially USAID funded a two-year budget in the amount of \$412,455 and for the same period ADC contributed \$134,398. Effective October 1, 1977, USAID extended its funding for a third year with financial commitments by USAID and ADC up to \$660,170 and \$213,519 respectively.

In March 1980, the USAID made a further grant of \$150,000 to ADC for the fourth year operation cost. In May 1981, the USAID committed the balance of contribution of \$194,783. The total contribution of the USAID to this five-year Project was, therefore, \$1,004,953.

Due to the increase in fellowship costs, the ADC contribution to this Project up to the end of September 1981 was estimated at more than \$0.45 million.

3/ The First Semi-Annual Report, October 1976 to March 1977, was submitted in April 1977. The First Annual Report, October 1976 to September 1977, was submitted in December 1977 including the minutes of the First Annual Review meeting held in Kathmandu in October 17, 1977.

The Second Semi-Annual Report, October 1977 to March 1978, was submitted in April 1978. Due to the postponement in holding Annual Review in November, the Second Annual Report, October 1977 to September 1978, was submitted in December 1978.

The Third Semi-Annual Report, October 1978 to March 1979, was submitted in April 1979 and the Third Annual Report, October 1978 to March 1979, was submitted in October 1979.

The Fourth Semi-Annual Report, October 1979 to March 1980, was submitted in May 1980 and the Fourth Annual Report, October 1979 to September 1980, was submitted in November, 1980.

The Final Report covering the past five-year activities, October 1976 to September 1981, was submitted on October 1, 1981.

A financial report covering the expenditures of the past five years, October 1976 to September 1981, will be submitted directly to the USAID/W by the ADC/NY.

Objectives

The main objectives of this Project as stated in the Grant Agreement were:

"To provide partial support for a program to

1. train Nepalese in agricultural research and development planning, and
2. assist HMG to develop the institutional capacity to make more productive use of
 - a. human and physical resource endowments, and
 - b. the new technical knowledge that is becoming available through the Integrated Cereals Project (ICP) to expand agricultural production and improve the well-being of the people living in rural areas".

More specifically, the objectives of this Grant were:

"to initiate research on selected problems of agricultural and rural development; and to expand the capacity of Nepalese institutions to conduct research on which to base public decisions".

In the past five years, the implementation of this Project programs followed very closely the above stated objectives. All programs were directed to emphasize the training of younger social scientists in doing agricultural research and the involvement of senior officers in improving development planning.

Targets

According to the Project Proposal submitted to the USAID for grant approval in August 1976,^{4/} it was clearly stated that this Project contained two principal elements: training and research.

Regarding training, the Project expected to provide in total 588 man-months of training for MFAI officials in addition to those who received on-the-spot training under ADC Associate and Research Specialist. The distribution of those 588 man-months over the five-year period is shown in Table 1.

^{4/} Agricultural Development Council Project Proposal for Training Nepalese in Agricultural Research and Development Planning, August 30, 1976.

TABLE 1

MAN-MONTHS OF TRAINING

	1977	1978	1979	1980	1981	Total
Short-term, non-degree training	8	12	14	13	13	60
Asian Fellowship Program (M. S.)	48	96	96	96	48	384
U.S. Fellowship Program (Ph. D.)	12	36	36	36	24	144
Annual total	68	144	146	145	85	588

For short-term, non-degree training activities, achievements will be evaluated in terms of how well specific training inputs were able to meet the particular skill augmentation needs of the researchers and research units involved. Consideration will be given both to the availability of training programs and facilities and to the backgrounds of the individuals selected for training.

For M.S. degree training, the Project provided four fellowships each year for four years. In total, there were 16 fellowships to be awarded. These 16 fellows were to be trained in Asian and Australian universities.

For Ph.D. degree training, the Project provided one fellowship each year for three years. In total, there were three fellowships to be awarded. These 3 fellows were to be trained in U.S. universities.

On research aspect, the original Project Proposal didn't state clearly what and how many research activities should be carried out because of the difficulties in evaluating the research product. The qualitative criteria used to evaluate research programs included both conceptual and analytical aspects.

Questions related to conceptual aspects were:

"Have research projects undertaken been formulated in such a way as to provide policy makers, ICP scientists and administrators with insights which they require in order to address particular problem areas which require a social science research input? Has the conceptual element of a particular research project been thoroughly internalized by those working on the project?"

Questions related to analytical aspects were:

"Have appropriate methodologies been used in arriving at research conclusions

and in making policy recommendations? Have those economic, sociological and statistical techniques which have been employed been thoroughly incorporated into the institutional capacities of the institutions in which the research was conducted? Can each project be replicated without the assistance of foreign resources? Have the techniques used become building blocks on which more complicated techniques can be built if necessary? "

Design

To achieve the Project objectives and its targets, the Project programs have been designed in such a way that four major areas of activities can be operated simultaneously in the same year.

1. The provision of degree and non-degree training facilities for a selected group of young social scientists to increase their professional competence,
2. The conduct of problem-solving research on emerging issues related to agricultural and rural development to generate new knowledge on which to base policy decisions,
3. The organizing of a series of seminars, workshops and study tours to get mid-career HMG officials involved with, and exposed to, the development process of agricultural modernization, and
4. The publication of research findings and seminar reports to provide incentives to young researchers and to record the views expressed by the HMG officials on the directions and emphases of agricultural development programs.

Since this is a HMG/AID/ADC Project Project, close cooperation among these three agencies in policy formulation, program implementation and management control became imperative. To foster such cooperation, a total of 10 joint meetings 5/ was held to exchange views on the initiation of new program activities and to assess the progress in the implementation of various project programs. Experience showed that this type of joint meeting was useful and effective in stressing the spirit of working together as partners.

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- 5/
1. The first meeting was held on October 22, 1978.
 2. The second meeting was held on December 26, 1978.
 3. The third meeting was held on January 22, 1979.
 4. The fourth meeting was held on March 30, 1979.
 5. The fifth meeting was held on May 24, 1979.
 6. The sixth meeting was held on October 10, 1979.
 7. The seventh meeting was held on November 20, 1979.
 8. The eighth meeting was held on June 20, 1980.
 9. The ninth meeting was held on June 4, 1981.
 10. The tenth meeting was held on July 16, 1981.

All those joint meetings were chaired by the Joint Secretary of the Evaluation and Project Analysis Division (EPAD) of the Ministry of Agriculture. The Secretary of Agriculture was present in most of the meetings.

In addition, two meetings between Ministry's officials and ADC staff were held in the Secretary's office on May 23 and 30, 1980 to discuss work programs for the fourth year of this Project.

The Project also held three Review meetings, all in Kathmandu. In those three Review meetings, the Presidents of ADC were present. The first Review Meeting was held on October 17, 1977 attended by Dr. Vernon W. Ruttan, the then ADC President. The second Review Meeting was held on November 20, 1978 attended by Dr. Arthur T. Mosher, ADC Interim President. The third Review Meeting was held on December 23, 1980 attended by Dr. Theodore M. Smith, ADC President.

Personnel Changes

1. ADC

For the first two years, the Project was understaffed. Dr. William Batsson, the first ADC Resident Associate in Nepal who was also in-charge of this Project since 1976, took up a new assignment in USA in December 1977. Dr. Veit Burger, Research Specialist, joined this Project only in September 1977. Dr. Shao-er Ong, the then ADC Associate in Thailand, paid periodic visits to Nepal between February and July 1978. He became the full-time ADC Associate for Nepal from August 1978 onwards.

On his transfer from Thailand to Nepal, the responsibilities of Dr/ Ong's assignment had been clearly stated in President Ruttan's letter to Agriculture Secretary dated October 16, 1977 (Appendix II). Dr. Ong was responsible for the administration and management of this Project on Training Nepalese in Agricultural Research and Development Planning, for the liason with the USAID, the IADS and other relevant agencies and for other ADC professional development activities in Nepal.

After his joining, Dr. Ong worked very closely with Dr. Burger to get the Project programs moving. Only from the third year on, ADC had two staff members, Associate and Research Specialist, working full-time for this Project up to September 30, 1981.

After submitting this final progress report, Dr. Ong will leave Nepal in early October and will take his sabbatical leave in U.S.A. Dr. Burger will stay on longer to look after some uncompleted Project activities.

During this Project period, there were changes in ADC leadership in New York. Dr. Vernon W. Ruttan resigned as ADC President at the end of 1977. Dr. A.T. Mosher was appointed as ADC Interim President between 1978 and 1979. Dr. Theodore M. Smith became the ADC President in June 1979.

2. USAID/N

USAID/N was asked by the USAID/W to be responsible for monitoring the progress of this Project program implementation. Mr. John Wilson, Chief of Food and Agriculture Division of USAID/N who assumed this responsibility since the beginning of this Project, was transferred to Washington in December 1978. Between May and November 1979, Mr. Douglas Pickett, Chief of Agriculture and Resource Conservation Division, took over the responsibility. Due to a reorganization of USAID/N, Mr. William Nance, Program officer oversaw this Project from November 1979 to September 1981. This Project is now again under the assistance of the Agriculture and Resource Conservation Division.

Mr. Samuel H. Butterfield, Director of USAID/N, provided effective encouragement to the program implementation of this Project between 1976 and 1980. Since February 1981, Mr. Dennis Brennan, Director of USAID/N, continues his leadership in guiding the implementation of this Project programs.

3. HMG

Normal personnel changes also occurred within the Ministry of Agriculture. When the Project started in October 1976, the name of the Ministry was the Ministry of Food, Agriculture and Irrigation (MFAI). In April 1979, the Department of Irrigation, Hydrology and Meteorology under the MFAI was transferred to the Ministry of Water and Power. Since then, the name of the Ministry was changed to the Ministry of Food and Agriculture (MFA). In June 1981, the Nepal Food Corporation under the MFA was transferred to the Ministry of Supplies. Hence, the name of the Ministry of Food and Agriculture was changed again to the Ministry of Agriculture (MOA).

In the past five years, the ADC staff worked under four Ministers, four Secretaries, three Joint Secretaries of the Evaluation and Project Analysis Division, three Joint Secretaries of the Planning and Coordination Division, and three Executive Directors of the Agricultural Projects Services Centre (APROSC).^{6/}

Regardless of personnel changes, the working relationships between HMG and ADC and between USAID/N and ADC always remain close and strong. The cordial working relationship among the HMG, USAID and ADC help accelerate the speed in program implementation of this Project.

^{6/} As of September 30, 1981, the Honorable Minister of MOA is Mr. Hem Bahadur Malla, the Secretary is Mr. Bed B. Khadka, the Joint Secretary of EPAD is Dr. K.B. Rajbhandary, the Joint Secretary of the Planning and Coordination Division is Dr. T.N. Pant and the Executive Director of APROSC is Dr. Ram P. Yadav.

TRAINING

This Project involves four major areas of program activities: training, research, seminars and publications. Training is considered as the most important component among these four areas which includes both degree and non-degree training.

Degree Training

The degree training consists of two levels: M.S. level training at Asian and Australian universities and Ph.D. level training at U.S. universities.

As early as 1971, ADC initiated a small degree training program at two levels for Nepal. When this Project started in 1976, the USAID grant enabled ADC to increase the number of awardees at both levels. According to the Grant Agreement, during this Project period, funds were available to award three Ph.D. fellowships and 16 M.S. fellowships. Due to the withdrawal of one Ph.D. fellowship candidate, this Project has actually supported only two Ph.D. fellows. In 1979, the USAID agreed to divert some unused funds from other activities of this Project in order to add in 10 more M.S. fellowships. Hence, the total support for M.S. fellowships from the USAID grant was 26.

The USAID grant supported fellows started their study program in 1977. In addition to USAID supported fellowships, ADC by using other sources of support such as IDRC (International Development and Research Center of Canada) and ADAB (Australian Development Assistance Bureau) awarded 16 more M.S. fellowships to Nepal between 1972 and 1981.^{7/}

Reasons for putting greater emphasis on degree training are not difficult to seek. Firstly, before 1975, there were less than five rural social scientists trained at the Ph.D. level and less than a dozen trained at the M.S. level under the Ministry of Food, Agriculture and Irrigation. This was why this Project became important. Secondly, to fulfil degree requirements, all candidates must write thesis or research papers which is the most important step to train them in doing research. Thirdly, unless there is a group of well-trained Nepalese researchers, most research activities in Nepal were done and will be done by foreign expatriates.

A. Master's Level Training

As of September 30, 1981, the ADC M.S. Fellowship Program has awarded

^{7/} The M.S. fellowship program is centrally administered by the ADC fellowship Officer in Bangkok by pooling all sources of support together to select applicants from different countries with some unified criteria. There is no discrimination against a fellow because he is supported by a specific source of funding.

42 fellowships^{8/} for young rural social scientists from Nepal to receive Master's level training at universities in Asia and Australia (Appendix III). Of these 42 fellowships, 9 were awarded by ADC before this Project was started (1972-1976).

Among the 33 fellowships awarded after 1977, 26 were and are funded by the Project. The ADC has supported the remaining 9 fellows from other sources of assistance and ADC own fund.

In 1981, the ADC M.S. Fellowship Selection Committee has awarded another 3 fellowships^{9/} to Nepal who will start their study program in 1982. Funding for these three fellows will come from sources other than this Project.

Institutions benefited from the ADC fellowship program at the Master's level are listed below:

Agricultural Projects Services Centre (APROSC)	15
Agricultural Development Bank (ADB/N)	13
Department of Agriculture (DA)	5
Department of Food and Agricultural Marketing Services (DFAMS)	2
Centre for Economic and Development Administration (CEDA) of Tribhuvan University	2
Ministry of Food and Agriculture (MFA)	1
National Planning Commission (NPC)	1
Tobacco Development Corporation of the Ministry of Commerce and Industry	1
Agricultural Inputs Corporation (AIC)	1
Nepal Food Corporation (NFC)	1
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	42

Distribution of Nepalese fellows trained at various universities is shown below:

Australia:	
University of New England (UNE)	5
Australia National University (ANU)	1
Philippines:	
University of Philippines at Los Banos (UPLB)	14
University of Philippines at Diliman (UPD)	8

^{8/} The actual number of awardees was 44. One of them was terminated after one semester of study and the other award was cancelled because of the candidate's failure in the TOEFL test.

^{9/} As of September 30, 1981, of these three fellows, two got the awards and one is an alternate pending the availability of fund.

Thailand:	
Thammasat University	8
India:	
Tamil Nadu University	2
Punjab Agricultural University	1
Andhra University	1
Malaysia:	
Malaysia Agricultural University	2
	<u>42</u>

Among these 42 fellows, 28 have completed their studies, 13 are studying and one will register in November 1981.^{10/} Among those who are studying, two will return to Nepal in late 1981, 7 of them will return in 1982 and 5 of them in 1983.

B. Ph.D. Level Training

As of September 30, 1981, ADC has awarded six Ph.D. fellowships to Nepal (Appendix IV). Of them, four were supported by ADC resource and two are supported by the USAID grant. Those supported by the ADC fund have completed their studies and returned.^{11/} Those two who are studying in USA will all complete their studies before the end of 1983.

One fellow each supported by the ADC fund and the USAID grant respectively were former ADC M.S. fellows both trained at UPLB.

Institutions benefited by the ADC Ph.D. fellowships are listed below:

Department of Food and Agricultural Marketing Services (DFAMS)	1
Ministry of Home and Panchayat	1
Centre for Economic Development and Administration (CEDA/TU)	1
Agricultural Development Bank (ADB/N)	1
Ministry of Food and Agriculture (MFA)	1
Agricultural Projects Services Centre (APROSC)	1
	<u>6</u>

^{10/} Due to delay in getting admission, this fellow has lost one semester. He has to register in November instead of May 1981.

^{11/} One of the fellows who earned his Ph.D. degree in May 1981 will return to Nepal in early October 1981 because of special extension for 4 months to complete two research papers for publication.

Non-degree Training

Non-degree training consists of short-term inservice training organized either in or outside Nepal with special emphasis on development planning for mid-career professionals. Many HMG officials who are not eligible for degree training due to age limit or academic records will be greatly benefited by receiving non-degree short-term training relevant to their working environment and experience.

A. Training Received outside Nepal

There are two types of non-degree short-term training outside Nepal. One was sending officers to participate in training programs organized by some reputed institutions. The other was sending officers to participate in training programs jointly arranged by the ADC and a university.

1. Training Programs organized by some reputed institutions.

In the past five years, this Project has sent eight officials to participate in short-term training organized by four reputed training institutions in USA and Asia.

Mr. Devendra P. Chapagain, Agricultural Economist of MFAI, and Mr. Kalayan Raj Pandey, Economist of APROSC, attended a two-month training course on the Agricultural Capital Projects Analysis organized by USDA in Washington from April 17 to June 17, 1977.

Mr. Raghu N. Adhikari, Economist of APROSC, attended a one-week training course on Information Systems and Data Management at the Asian Institute of Technology in Bangkok from June 19 to 23, 1978.

Mr. Krishna Dev Prasad Jaiswal and Mr. Shreeniwas Bhatta, both Economists of APROSC, attended a one-month training course on Project Appraisal Techniques at the Agricultural Banking College in Poona, India, from July 3 to 28, 1978.

Mr. Krishna Prasad Devkota, a senior accountant from APROSC, attended a five-month training course on Management Education Program at the Indian Institute of Management, Ahmedabad, India, from October 28, 1979 to March 28, 1980.

Mr. Raghu N. Adhikari, Economist of APROSC, attended a ten-week training course on Designing Projects for Agricultural Development organized by the Indian Institute of Management at Ahmedabad, India, from November 17, 1980 to January 24, 1981.

Mr. Ramesh N. Bista, Statistician of APROSC, attended two training courses, one-week each, on Managing Computer Centers and Information Systems Management at the Asian Institute of Technology in Bangkok from June 29 to July 10, 1981.

2. Training Programs Jointly Organized by ADC and Kasetsart University

Two such training courses were jointly organized by ADC and Kasetsart University in Bangkok, Thailand.

a. Agricultural Development and Administration

In cooperation with the Faculty of Economics and Business Administration of Kasetsart University, this Project organized an In-service Training Course on Agricultural Development and Administration for twenty-five officers from the Ministry of Food and Agriculture between November 1 and December 22, 1980 (Appendix V). This course was held for the first four weeks at the Kamphaengsaen Campus (80 Km northwest of Bangkok) of Kasetsart University and for the last week at the Bangkhen Campus in Bangkok.

The overall objective of this in-service training course is to provide expertise in administering agricultural and rural development programs and projects. More specifically, this course was designed to:

help participants identify the skills and insights in managing agricultural and rural development programs and projects,

acquaint participants with the use of practical techniques in investment analysis as applied to the problems of agribusiness, agricultural production and other aspects of rural development,

develop their administrative abilities and competence in the use of management tools for planning, monitoring and evaluating project implementation, and

expose them with several on-going and completed agricultural development projects in the Central Plain of Thailand through field trip studies.

Dr. Phaitoon Ingkasuwan, Rector of the Kasetsart University, and Mr. Bed B. Khadka, Secretary of the Ministry of Food and Agriculture of His Majesty's Government of Nepal, both inaugurated this Training Course on November 18, 1980. Rector Phaitoon and the Ambassador of the Royal Nepal Embassy closed the Training Course on December 19, 1980.

Dr. Sopin Tongpan, Dean of the Faculty of Economics and Business Administration, was the Director of this Training Course. This Training Course invited 7 resource persons from international organizations and the University of the Philippines at Los Banos and 28 resource persons from Thailand (Appendix VI) to give lectures and to lead discussions on various topics. Participants were exposed to different varieties of experts on development administration. Quality of training throughout the course duration remained high. Reports from individual participants on training programs and field trip arrangements were all very favorable.

b. Agribusiness for Nepalese Women

This Project in cooperation with the Agribusiness Management Program under the Faculty of Economics and Business Administration of Kasetsart University organized a Training Course on Agribusiness for Nepalese Women for two weeks from August 22 to September 6, 1981 in Bangkok. A total of 16 young Nepalese women (all under 30 years old) selected by the Ministry of Agriculture from both the public and private sectors attended this Training Course (Appendix VII) in Bangkok.

Mrs. Sriaroon Resanond, Associate Professor of Department of Business Administration and Director of Agribusiness Management Program, was appointed as the Director of this Course. Dr. Krishna Chutima, Vice Rector for Academic Affairs, Mr. Porn Suwanvajokasikit, Director of Extension and Training Center, and Dr. Sopin Tongpan, Dean of the Faculty of Economics and Business Administration, acted as advisors. Nine lecturers from the same Faculty were resource persons (Appendix VIII).

As the first training course for Nepalese Women ever organized in Thailand it was very well received by the University staff, by the Thai business women and by the Nepalese women participants themselves. The participants hoped that in the near future the Nepalese women can contribute as much to the development of the private sector as did their counterparts in Thailand.

B. Training Programs Organized in Nepal

This Project organized three in-service training courses in Kathmandu with special emphasis on agricultural statistics and computer programming.

1. Statistical Framework for Monitoring Rural Area Development Projects

This three-week inservice training course was organized by APROSC from February 26 to March 16, 1979 with this Project support. Twenty trainee-participants from the National Planning Commission, Central Bureau of Statistics, Department of Food and Agricultural Marketing Services, Agricultural Development Bank, Ministry of Food and Agriculture, APROSC, Nepal Resettlement Company and the Ministry of Home and Panchayat attended this course.

In addition to nine local resource persons, the Project also invited Dr. H.K. Oh, FAO Regional Agricultural Statistician for Asia and the Pacific in Bangkok, and Dr. G.R. Seth, former Director of the Indian Institute of Agricultural Statistics Research in New Delhi, as lecturers for the whole period of three weeks. Mr. Murali P. Upadhayaya, the then Secretary of the Ministry of Food, Agriculture and Irrigation, gave a special three-hour lecture on Sampling Error for this course.

This training was particularly useful to those participants who were working in the area of monitoring the work progress of various rural development projects.

2. Food and Agricultural Marketing Statistics

Between August 10 and September 10, 1981 this Project, in collaboration with the United Nations Statistical Institute for Asia and the Pacific (SIAP) in Tokyo, organized a Country Course on Food and Agricultural Marketing Statistics at the Training Center of the Agricultural Development Bank in Kathmandu. Twenty-five statisticians from different IMG units participated in this course (Appendix IX).

This Course aimed at improving statistics on production, distribution and consumption of agricultural and food products in the country and strengthening the collaboration between producers and users of statistics. More specially, this Course focussed on four subject-matter fields:

Supply/Utilization account of food and agricultural commodities

Food balance sheet

Food consumption statistics and survey

Economic accounts for agriculture

The Department of Food and Agricultural Marketing Services was the organizer of this Course. The SIAP provided travel expenses, per diem and honoraria of five resource persons^{12/} and all training materials. This Project shared the local Support.

Time allocated for lectures during this five-week Country Course period was reduced to the minimum with only one to two hours per day. The rest of the time was all spent in doing practical exercises. SIAP provided each participant with a pocket calculator. This helped increase the efficiency in statistical tabulation and analysis. After this Country Course, all participants know how to work on these four subject-matter fields independently.

3. Computer Programming and Application

Under the commodity budget of this Project, a Hewlett-Packard 9825A Mini-computer has been installed in the Statistics Unit of APROSC in late 1978. From 1978, Mr. Ram Krishna Sharma and Mr. Ramesh Bista, APROSC Statisticians, and from 1980, Mr. Govind Koirala, Economist of ADB/N, received on-the-job training on Computer Programming and Management under Dr. Veit Burger. Mr. Sharma left for the University of New England, Australia, for M.S. degree training in statistics in February 1981 under this Project Fellowship. Since then, Mr. Bista is in his place. He will also leave for Australia in February 1982 under ADC fellowship support. Mr. Dev Nath Mandal and Mr. Ramji P. Shrestha, two APROSC junior statisticians, are being trained and are working on a full-time basis on computer operation.

In July 1979, Mrs. Sukehiro Hasegawa was engaged for a period of six months as the Project consultant on Computer Programming. In 1980, the Project also engaged Mr. Royce Jones as a short-term consultant assisting in the development of package programs for statistical analysis which are now widely used and are also available for data analysis to Ministry-related institutions.

From 15 to 22 February 1981, Dr. Burger organized a one-week training course for 11 participants predominantly from APROSC to acquaint them with the application of computer programs to their specific work.

12/ These five resource persons were:

1. Dr. S. Kawakatsu, SIAP Deputy Director, for five weeks
2. Dr. N. Erus, SIAP Consultant, for five weeks
3. Dr. H.K. Oh, FAO Regional Agricultural Statistician, for three weeks
4. Dr. Gil R. Rodriguez, Jr., Statistician of Asian and Pacific Development Center, for one week
5. Dr. Prabei Das, Statistician, Government of India, for one week

Mr. Ramesh N. Bista of APROSC and Mr. Govind Koirala of ADB/N also participated in a one-week training course in March 1981 on BASIC programming in Kathmandu organized by the APPLE Users Association to acquaint them with the language of APPLE computers which are to be installed in these institutions where the trainees work.

To cope with the increased demand for computer services and with larger data bases, an APPLE II mini-computer has been acquired by this Project recently. It has not yet arrived in Kathmandu at the time of this reporting.

Estimated Benefit of Training under this Project Support

To measure the benefit of degree and non-degree training, a common denominator, man-month, is used. Actually this measurement may not be considered as a fair yardstick because of the differences in the quality of training and in the locations of training. Since there is no other simple method, man-month is used here as the best alternative.

On degree training, there are two Ph.D. fellows and 33 M.S. fellows supported by this Project. Among the 33 M.S. fellows, the USAID grant supports 26 and the ADC, 9. The average time required for a Ph.D. fellows to complete his degree is 4 years, and for a M.S. fellow to complete his degree is 2 years. By estimate, the total number of man-month benefit is 936 (Table 2).

TABLE 2

MAN-MONTH BENEFIT ON DEGREE TRAINING

Degree	No.	Man-month required each	Total Man-month Benefit
Ph.D. (USA)	2	48	96
M.S. (Asian)			
USAID	26	24	624
ADC	9	24	216
Total			936

Experience showed that all Ph.D. fellows can complete their degrees in 4 years. But for the M.S. fellows, requesting for two to three months extension was not uncommon. It has to be pointed out that the majority of them were able to complete their studies in two years.

On non-degree Training, the total man-month benefit is shown in Table 3.

TABLE 3

MAN-MONTH BENEFIT ON NON-DEGREE TRAINING

Type	No.	Man-month Required each	Total Man-month Benefit
Training Outside Nepal			
Organized by other Institutions			
USDA	2	2	4
AIT	1	$\frac{1}{4}$	$\frac{1}{4}$
ABC	2	1	2
IIM	1	5	5
IIM	1	$2\frac{1}{4}$	$2\frac{1}{4}$
AIT	1	$\frac{1}{2}$	$\frac{1}{2}$
Organized by Kasetasrt University			
Ag. Development and Administration	24	$1\frac{1}{4}$	30
Agribusiness	16	$\frac{1}{2}$	8
Training in Nepal			
Statistical Framework	20	$\frac{3}{4}$	15
Food and Ag. Statistics	25	$1\frac{1}{4}$	$31\frac{1}{4}$
Computer			
Application	11	$\frac{1}{4}$	$2\frac{3}{4}$
APPLE Language	2	$\frac{1}{4}$	$\frac{1}{2}$
Total			<u>101.50</u>

From Table 3, it is shown that man-month benefit under non-degree training in the past five years is 101.50 months. Together with degree training, the total man-month benefit will be 1,037.50 months. This benefit so far did not include another important aspect, on-the-job training.

RESEARCH

Conducting research particularly on development problems in the hill areas is another important component of this Project. While progress in research activities was slow in the initial years for the following three reasons, it picked up considerably in the past three years.

Firstly, the number of trained social scientists in the Ministry of Food and Agriculture is very small. They are fully occupied with other important responsibilities rather than with research. Secondly, decision making on policy issues depends more on hard-earned experience than on research findings. Thirdly, seniority and other merits are more important criteria than research contributions used in the evaluation of staff performance.

As of September 30, 1981 research activities initiated by this Project can be classified into three categories.

Research Activities Participated Directly by the ADC Staff

1. Productivity and Production Constraints

Dr. William M. Bateson working together with APROSC staff initiated three research activities on Fertilizer Input Planning, Paddy Production Practices in the Kathmandu Valley and Farmer Practices and Productivity of Inputs in Wheat Farming in the Western Terai in 1977. He did include his preliminary reports on A Didactic Note on Fertilizer Recommendations, An Interim Report on Paddy Production Practices in the Kathmandu Valley, and Farmer Practices and Productivity of Inputs in Wheat Farming in the Western Terai, Nepal in the First Annual Report as Appendices C, D, and E. After his departure in December 1977, he didn't submit his final report on those studies.

2. Job Environment and Job Consciousness of Agricultural Graduates under the MFAI

This research activity started in April 1978. A Team of seven HMG officials under the leadership of Mr. Tek Bahadur Shrestha, Economist of MFAI, undertook this study with the assistance of two ADC short-term consultants, Dr. Titaya Suvanajata and Dr. Vudhichai Chamnong both from the National Institute of Development Administration (NIDA), Bangkok, Thailand.

The study team interviewed 307 officers who were randomly selected from 18 sample districts throughout the Kingdom. The final report was published and was discussed in a one-day seminar on February 10, 1980. The condensed version of this Report was published as No. 7 of the Project's Research Paper Series.

3. Socio-Economic Aspect of Livestock Production in Western Hill and Mountain Areas of Nepal

Dr. Veit Burger initiated this study who was assisted by Mr. Ram Milan Upadhyaya, Livestock Specialist from the Department of Agriculture, Mr. Laxman Gautam, an Economist of MFAI, and three research assistants from the APROSC in early 1979.

Five sites in the hills and mountains of the Western Development Region were selected. Each site is dominated by one species of livestock but all animals on a farm have been studied. These sites are:

Syangja - buffaloes, two sites, one off and one on the road
Gorkha - sheep
Tanahu - goats
Manang - yak and chawri-based animal husbandary

After identifying villages to be studied in March, the team selected wards and households in April. In the same month, the team trained the enumerators and pre-tested the questionnaires at Khairanitar. Data collection was completed in July, 1979.

In the process of data analysis and report preparation, Dr. Burger was assisted by Dr. Pitamber Sharma of Tribhuvan University and Mr. Pradeep Tulachand of the Rampur Institute of Agriculture and Animal Science. The draft report of this study is ready and is under revision.

4. Development Potentials in Nepal's Hill Agriculture

In March 1979, the Project made a small grant to APROSC recruiting Dr. Bekha Lal Maharjan, ADC fellow and Chief of Economic Analysis Division of the Department of Food and Agricultural Marketing Services (DFAMS), to work together with Dr. Shao-er Ong on a study on "Development Potentials in Nepal's Hill Agriculture". The DFAMS also assigned six staff members and hired eight enumerators assisting the field work.

Four panchayats, one in each development region, were selected for this study in April.^{13/} One research assistant and two field enumerators started their field survey in each Panchayat interviewing 25 farmers between May and June. A total of 100 farmers in four panchayats were interviewed.

Dr. Maharjan accompanied Dr. Ong to guide the field work in three panchayats in Eastern, Central and Western Development Regions in May and early June. Mr. Kumar Upadhaya of DFAMS also accompanied Dr. Ong to guide the field study in one panchayat in the Far Western Development Region. Field work was completed in early July before the arrival of Monsoon.

Data analysis and report preparation were done by Dr. Maharjan and his team members. Due to the deputation of Dr. Maharjan to work with the Economic Commission, the report preparation was delayed. The draft final report was ready in June 1980 and the first revised report was ready in September 1980. The second revision is necessary but has not yet been completed.

^{13/} These panchayats are Bokhim Panchayat of Bhojpur District in the Eastern Development Region, Chautara Panchayat of Sindhupalchok District in the Central Development Region, Dalchum Panchayat of Syangja District in the Western Development Region and Silgarhi Panchayat of Doti District of the Far Western Development Region.

Research Activities Financially and Technically Supported by this Project

1. Agricultural Price Policies of Foodgrains in Nepal

APROSC has been asked by the Ministry of Food and Agriculture to conduct this study in early 1980. Mr. Bharat Karki, an ADC fellow and APROSC Economist, was appointed as the coordinator. The Project provided one short-term consultant (one month) Dr. D.S. Tyagi, Director of Agricultural Price Commission of India, to assist Mr. Karki in preparing the research design and in finalizing the final report. Due to conflicts with his other assignments, Dr. Tyagi was unable to work in Nepal. Both Mr. Karki and Dr. Burger visited with Dr. Tyagi in Delhi in June 1980 to finalize the research proposal. Mr. Karki had another consultation with Dr. Tyagi reviewing his final report in November 1980 before he submitted his final report to the Ministry in July 1981.

2. A Study on Problems and Prospects of Jute Cultivation, Trading and Manufacturing in Nepal

This study was jointly conducted by Dr. T.N. Pant, Mr. Ganesh Thapa and Mr. Pramod Lohani of the Ministry of Agriculture in January 1981. The first draft report is ready and is under revision.

3. Assessing Efficiency on Tobacco Farms and Identifying Constraints in Production and Marketing

Mr. Govind Koirala of ADB/N and Mr. Ganesh Rauniyar of Tobacco Development Corporation, both are ADC fellows, initiated a study on Assessing Efficiency of Tobacco Farms and Identifying Constraints in Production and Marketing in December, 1980. The field survey and data analysis have been completed in August. It is now in the stage of report writing.

4. Repayment Performance of Small Farmers Groups

Mr. Krishna Hari Maharjan of ADB, an ADC fellow, conducted a study on Repayment Performance of Small Farmers Groups in the spring 1981. This study is now in the stage of data collection and preliminary analysis.

5. Optimum Pumpset Size for Different Farm Sizes in the Terai

Mr. Madhav R. Khoju, Mr. K.M. Singh and Mr. C.M. Rokaya, all of ADB and ADC fellows, conducted a study on Optimum Pumpset Size for Different Farm Sizes in the Terai in June 1981. Field work was completed in August, Mr. Khoju will analyze the collected data while on a two-month postgraduate fellowship at the International Rice Research Institute (IRRI) between September and October.

Research Activities with Project Assistance in Methodology

Those who have consulted with Dr. Viet Burger, ADC Research Specialist, on research methodology in their research activities include APROSC researchers and ADC fellows.

APROSC staff who discussed with Dr. Burger included Mr. Amrit Man Shrestha on "A Comparative Study on Investment in Irrigation in the Hills and Terai" and Dr. Madav Gautam, on "Nutritional Aspects of Various Cropping Patterns" both in 1980 and 1981.

ADC fellows who returned to Nepal collecting data for their theses had always consulted with the ADC field staff on the application of their research methodology in the field work and on problems in conducting their field work. The amount of time used on consultation increased when more ADC fellows returned home conducting their field studies.

SEMINARS AND STUDY TOURS

Organizing a seminar provides not only a forum for exchange of views on emerging problems of agricultural and development programs but also a means for suggesting timely topics for research and development planning. This Project considers the organizing of seminars, the nominating of competent social scientists to participate in seminars organized by others and the organizing study tours for a small number of competent officers as a very important supporting service to strengthen the communication between the Project staff and the HMG officials. In the past five years, this Project sponsored the following three types of seminars, supported selected social scientists to attend seminars outside Nepal and conducted several study tours.

Seminars Organized in Cooperation with Other Institutions

1. Seminar on Water Management and Control at the Farm Level in Nepal

This Seminar was jointly organized between the APROSC and this Project from 25 to 27 October 1978 with 29 participants (Appendix X) from various agencies under the MFAI. Seven papers were presented and discussed.

2. Seminar on Farm Resource Allocation for Efficient Crop and Livestock Systems in Nepal

This Seminar was also jointly organized with the APROSC from 28 to 30 January 1979 having 35 participants (Appendix XI). Seven papers were presented and discussed.

3. Seminar on Interagency Cooperation and Coordination in Program Planning, Implementation and Evaluation at the Ministry Level

This Seminar was organized in cooperation with the EPAD of the MFAI and was held from 17 to 18 May 1979 with 43 participants (Appendix XII). Four papers were presented and discussed. A panel discussion on how to strengthen the interagency cooperation and coordination in program planning, implementation and evaluation was held on the second day afternoon. This was the first seminar ever organized in Nepal on this topic at the Ministry level.

4. Job Satisfaction Problems in Agricultural Development in Nepal

This Seminar was also jointly organized with the EPAD of MFA. It was held on February 10, 1980 for one day only mainly to discuss a report prepared by Mr. Tek B. Shrestha on "Job Environment and Job Consciousness of Agricultural Graduates under the MFAI" with 33 participants (Appendix XIII).

5. Nepal's Experience in Hill Agricultural Development

This Project in cooperation with the Ministry of Food and Agriculture jointly organized a regional seminar on Nepal's Experience in Hill Agricultural Development from 30 March to 3 April 1981. From Nepal, 12 papers and from neighbouring countries, 10, papers were presented and discussed. Countries invited to participate in this Seminar included China (Tibet), Hongkong, India, Indonesia, Malaysia, Philippines and Thailand. A total of 85 participants and observers attended this Seminar (Appendix: XIV).

6. Seminar on Integration of Women in the Main Stream of National Development

The Project in cooperation with the Women Services Coordination Committee organized a seminar on Integration of Women in the Main Stream of National Development from 9 to 11 June 1981. Her Majesty Queen Aishwarya Rajya Laxmi Devi Shah inaugurated the seminar on the Opening Day. Among the 72 participants, many are distinguished women leaders (Appendix XV). This three-day seminar discussed seven papers and recommended many action programs which will have long range impacts on the women participation in the Kingdom's modernization programs.

7. Appropriate Technology for Hill Farming Systems

This Project in cooperation with the Department of Agriculture and the Integrated Cereals Projects (ICP) organized a Seminar on Appropriate Technology for Hill Farming Systems from 22 to 26 June 1981. It also intended to fulfil one of the Project's objectives: to make more productive use of the new technical knowledge that is becoming available through the ICP to expand agricultural production and improve the well-being of the people living in rural areas".

This seminar discussed 14 papers prepared by both foreign and local experts. A total of 94 HMG officials and foreign experts who worked in different agricultural development projects attended this seminar (Appendix XVI). By reviewing the experience on transfer and adoption of the traditional and modern technologies, this Seminar has identified certain technologies which can be considered as appropriate and relevant to the needs of various hill farming systems.

Seminars Organized for Visiting Scholars

As an isolated place, not many internationally-known rural social scientists visited Kathmandu. This Project was fortunate to organize four such seminars.

1. Dr. L.S. Venkataramanan

Dr. L.S. Venkataramanan, Director of the Institute For Social and Economic Change in Bangalore, India, visited Kathmandu from 7 to 10 October 1980. The Project invited him to give a talk on the 8th at the Blue Star Hotel on Foodgrain Growth and Price Policy and to meet 32 prominent economists from Nepal.

2. Dr. John Flinn

In one of his frequent visits to Kathmandu, the Project invited Dr. John Flinn, Agricultural Economist of IRRI to give a Seminar at the Training Center of ADB/N on Crop and Livestock Systems on November 25, 1980.

3. Dr. Sam C. Hsieh

Dr. Sam Hsieh, Director of the Project Department of the Asian Development Bank, was invited to give a Seminar on "ADB and Agricultural Development in Asia" at the Hotel Blue Star on February 27, 1981. Economists from related agencies of the Ministry of Food and Agriculture, National Planning Commission, Nepal Rastriya Bank, Tribhuvan University and international organizations participated in the discussion.

4. Dr. Robert Herdt

Dr. Robert Herdt, Head of the Department of Agricultural Economics of IRRI visited Kathmandu and was invited to give a seminar on "IRRI Agricultural Economics Research" at the Hotel Blue Star on September 29, 1981. Many prominent economists attended this Seminar.

Seminars Organized for ADC Fellows

To encourage the younger social scientists to be interested in doing research and to let others know what types of research have been done by our ADC fellows, this Project in the fifth year sponsored several seminars by inviting ADC fellows who returned to Nepal to collect data for their theses to give seminars to discuss the topic, problems, research methodology and hypotheses to be tested. Dr. Burger helped these fellows in the preparation of resume for their presentation. Those seminars attracted many younger social scientists to attend.

Fellows assisted by Dr. Burger in their presentation were as follows:

S.K. Sharma, APROSC and Thammasat University, on
"Contractual Arrangements in Paddy Farms of Nepal",
28 December 1980.

Krishna Hamal, APROSC and University of New England, on
"Risk Aversion and Perception and Adoption of New
Technology in Nepalese Paddy Production", 7 April 1981.

Narayan Rajbanshi, Nepal Food Corporation and University
Pertanian Malaysia, on "Marketable Surplus of Paddy in
Kathmandu District", 24 September 1981.

Tek B. Thapa, Department of Agriculture and University of
Philippines, on "Socio-Economic Constraints to Increased
Rice Yield in Kapilvastu District, Nepal".

Seminars Attended by the Project Supported Participants

1. 40th Conference of the Indian Society of Agricultural Economics

The Project sponsored the participation of four young Nepalese economists to attend the 40th Conference of the Indian Society of Agricultural Economics together with Dr. Veit Burger which was held in Puna from December 29, 1980 to January 1, 1981 at the Gokhale Institute. Those participants were Mr. Dharma Nath Koirala and Mr. Laxman Gautam, Economists of the Ministry of Food and Agriculture, Dr. Dibakar Poudyal, Economist of the Department of Food and Agricultural Marketing Services and Mr. Ramesh Sharma, Economist of the APROSC.

2. The Importance of By-Passed Areas in Asian Economic Development

The Research and Training Network (RTN) of ADC in New York in cooperation with the Japan Centre for International Exchange (JCIE) organized a Seminar on "The Importance of By-passed Areas in Asian Economic Development" which was held in Naha, Okinawa, Japan, from 15 to 19 June 1981. The Seminar invited Dr. Vijaya Shrestha, Research Officer of the Women Services Coordination Committee, to present a paper on the Role of Women in Nepal's Economic Development. Her participation expenses was fully covered by this Seminar.

On her way back, this Project provided Dr. Shrestha with 4-day stopover expenses (June 20-24, 1981) to study a UNFPA Project on Population Education for Agricultural Extension Workers in Thailand for which the Kasetsart University is the Executing Agent.

3. Investment Decision to Further Develop and Make Use of Southeast Asia's Irrigation Resources

ADC in cooperation with Kasetsart University and the Thai Royal Irrigation Department organized a Workshop on Investment Decisions to Further Develop and Make Use of Southeast Asia's Irrigation Resources at the Kamphangsaen Campus at Kasetsart University from 17 to 21 August 1981. Because Nepal is geographically outside Southeast Asia, this Project supported Dr. Binayak P. Bhadra, Resource Economist of the Centre for Economic and Development Administration (CEDA) of Tribhuvan University to attend this Workshop as an observer.

Study Tours

In the past five years, the Project sponsored five study tours.

1. Mr. R.B. Singh

Mr. R.B. Singh, Senior Technical Advisor of MFAI, visited Korea, Japan, Hongkong and Thailand to study the coordination of agricultural development programs in planning, implementation and evaluation from June 30 to July 27, 1979.

2. Dr. Ram P. Yadav

Dr. Ram P. Yadav, Executive Director of APROSC, after attending an Asian Research Institutes Conference in Seoul, Korea, spent three days in Tokyo, Japan, from October 13 to 16, 1979 to study agricultural development programs in Japan.

3. Mr. Tek Bahadur Shrestha

Mr. Tek Bahadur Shrestha, Economist of MFA, spent one week in Bangkok, Thailand, from December 2 to 9, 1979 to consult with Dr. Titaya Suvanjata and Dr. Vudhichai Chamnong, two ADC short-term consultants at NIDA, on his research activity on Job Satisfaction of Agricultural Graduates under MFAI.

4. Mr. Bed B. Khadka

Mr. Bed B. Khadka, Secretary of the Ministry of Food and Agriculture, after attending the opening ceremony of an Inservice Training Course on Agricultural Development and Administration for Nepalese Officers on November 18, 1980, and visiting the new Kamphangsaen Campus of Kasetsart University spent four days in Chiangmai accompanied by Dr. Shao-er Ong to study the hill agricultural development projects in Northern Thailand. His whole trip took eight days, 17 to 24 November 1980.

5. Dr. K.B. Rajbhandary

Dr. K.B. Rajbhandary, Joint Secretary of the Evaluation and Project Analysis Division of the Ministry of Agriculture, took a study tour to visit Philippines and Thailand from July 25 to August 8, 1981. The UPLB arranged tour itinerary for Dr. Rajbhandary to visit the Head offices of several agricultural projects at Los Banos and Manila studying the role of evaluation in Project implementation. While in Thailand, the Office of Agricultural Economics of the Ministry of Agriculture arranged a trip for Dr. Rajbhandary to visit Khon Kaen in Northeastern Thailand studying the methods of monitoring the work progress of several irrigation projects.

PUBLICATIONS

This Project has two types of publications : Seminar Reports and Research Paper Series.

Seminar Reports

1. Report of Four Seminars

Between 1978 and 1980, this Project in cooperation with APROSC and the Ministry of Food and Agriculture organized four seminars on Water Management and Control at the Farm Level, Farm Resource Allocation for Efficient Crop and Livestock Systems, Inter-Agency Cooperation and Coordination in Program Planning, Implementation and Evaluation, and Job Satisfaction Problems in Agricultural Development. The Project engaged Dr. I.J. Singh, Professor and Head of Agricultural Economics Department of Haryana Agricultural University, India, as a short-term consultant to edit all papers of these four seminar papers. A seminar report including these four seminar papers was published in August, 1981.

2. Proceedings of the Seminar on Nepal's Experience in Hill Agricultural Development

This Seminar was organized in late March and early April 1981. All 21 papers were edited by an Editorial Committee in May. The Proceedings were printed in Kuala Lumpur, Malaysia, in 1,500 copies. Each copy contains 240 pages. 500 copies have been shipped to Kathmandu for within-the-country distribution and 1,000 copies have been shipped to the ADC office in Bangkok for international distribution. These proceedings were published on September 25, 1981. The shipment will reach Kathmandu during the first week of October 1981.

3. Proceedings of the Seminar on Integration of Women into the Main Stream of National Development

This Seminar was organized in June 1981. The proceedings were published in September 1981.

4. Proceedings of the Seminar on Appropriate Technology for Hill Farming Systems

This Seminar was organized in June 1981. The proceedings are under printing and will be ready in October 1981.

Research Paper Series

Between 1972 and 1980, a total of 48 fellowships, 6 at the Ph.D. and 42 at the M.S. levels, has been awarded. No thesis was required for 6 fellows who worked for MBA degrees. The remaining 42 fellows have prepared and will prepare a thesis. Many of the returned fellows produced first rate theses by conducting their field research in Nepal.

In addition, this Project also sponsored problem-solving research activities which are carried out by the staff of the Ministry-related institutions. Hence, this Research Paper Series contains theses and research reports in a condensed form.

To provide incentives to young researchers, this Project in cooperation with APROSC began to publish the Research Paper Series in February 1980. The purpose of this publication is to make the results of these research activities available to a large audience and to acquaint younger staff and students with advanced methods of research and statistical analysis. It is also hoped that this publication will stimulate discussion among policy-makers and thereby assist in the framing of policies which are suitable to the development of Nepal's agriculture.

As of September 30, 1981, thirteen papers have been published, while three are in press, and five in the process of editing. An additional eight papers are at various stages of being prepared by the respective authors. Condensed reports of the four presently ongoing research activities will also be published. (See list below).

Due to the increasing demand, both from Nepal and abroad, the quantity had to be increased from 600 to 1,000 copies from Paper No.8 onwards. The present mailing list, which periodically gets updated, contains about 500 addresses. The average cost per publication (including editing, printing and postage) is about Rs.6,000. Copies are distributed free of charge.

Papers already published:

- No.1 Bekha L. Maharjan, "Intermediate Technology: Alternative Production Systems for Small Farms in Nepal", February 1980.
- No.2 Devendra P. Chapagain, "Agricultural Productivity Pattern in Nepal and its Regional Variations", February 1980.
- No.3 Som P. Pudasaini, "Farm Mechanization, Employment, and Income in Nepal: Traditional and Mechanized Farming in Bara District", February 1980.
- No.4 Ganesh P. Rauniyar, "An Economic Analysis of Flue-cured Tobacco in Nepal", March 1980.
- No.5 Ramesh P. Sharma, "Uncertainty and Subjective Beliefs in the Adoption of Modern Farming Techniques: A Case Study of Nepalese Farmers", April 1980.
- No.6 Arjun J. Shah, "The Determinants of Demand for Agricultural Labor in Laguna (Philippines) Rice Farms", May 1980.
- No.7 Tek B. Shrestha, U.M. Shrestha and U. Pradhan, "Job Environment and Job Consciousness of Agricultural Graduates under the Ministry of Food, Agriculture and Irrigation", September 1980.

- No.8 Ganesh B. Thapa and James A. Roumasset, "The Economics of Tractor Ownership and Use in the Nepal Terai", December 1980.
- No.9 Govind Koirala, "The Impact of Agricultural Credit on Farms in the Rupandehi District of Nepal", March 1981.
- No.10 Vijaya Shrestha, "Community Leadership in Rural Nepal", June 1981.
- No.11 Tilak Rawal, "An Analysis of Factors Affecting the Adoption of Modern Varieties in Eastern Nepal", September 1981.
- No.12 Bharat B. Karki, "The Impact of Modern Varieties of Rice on Farmer's Income and Income Distribution in Eastern Nepal", September 1981.
- No.13 Rawal, Karki, Flinn, "Rice Production in the Terai of Kosi Zone, Nepal", September 1981.

Papers in Press:

- C.M. Rokaya, "The Impact of the Small-Farm Credit Program in Nepal on Output, Net-Income and Adoption of New Methods".
- Madhav R. Khoju, "Economics of Pump Irrigation in Eastern Nepal".
- Dibakar Poudyal, "Crop-Livestock Based Farming Systems".

Papers in the process of being edited:

- Sushil Pandey, "Inclusion of Risk in Project Evaluation".
- Bishnu B. Silwal, "An Economic Analysis of Tea Industry in Nepal".
- Champak Pokharel, "Comparative Study of Chemical Fertilizer and FYM in Nepal".
- Sushil Pandey, "Supply Response of Australian Agriculture".

Papers in Preparation

- Krishna H. Maharjan, "Factors Affecting the Repayment Performance of Small Farmers in Nepal".
- Shyam K. Poudyal, "Resource Use Efficiency in Nepalese Agriculture - A Comparative Study of Agriculturally Developed and Undeveloped Regions".
- Prakash C. Aryal, "Employment and Unemployment of Agricultural Labour in Nepal - A Case Study of Two Villages".
- Raghu N. Shrestha, "Technological Change in Agriculture".

Bharat K. Mainali, "Income, Productivity and Labor Utilization on Rice Farms in Chitwan District, Nepal".

Purushottam Mudbhary and Malcolm Iles, "Grain Storage".

Shiva P. Sharma, "Contractual Arrangements in Paddy Farms of Nepal".

Papers from ongoing research activities:

Govinda Koirala and Ganesh Rauniyar, "Assessing Efficiency of Tobacco Farms and Identifying Constraints in Production and Marketing".

Takur N. Pant, Ganesh Thapa and Pramod Lohani, "A Study on Problems and Prospects of Jute Cultivation, Trading and Manufacturing in Nepal."

Krishna H. Maharjan, "Repayment Performances of Small Farmers Groups".

Madhav Khoju, K.M. Singh, C.M. Rokaya, "Optimum Pumpset Size for Different Farm Sizes in the Terai".

REFLECTION

My assignment in Nepal (1978-1981) has come to the end. It is a very commemo-
rative one as far as my career development is concerned. The opportunity for
me to work in Nepal is very rewarding which enables me not only to make more
friends but also to gain more knowledge. It also gives me the privilege to par-
ticipate in the study of development process of agricultural modernization in a
land-locked Kingdom.

What makes my stay in Nepal most pleasant and enjoyable is the strong support
received from the HMG, USAID and ADC in the conduct of the Project activities.
Without such support, it will not be possible for this Project to get its programs
moving up to the present stage.

As the ADC Associate for Nepal, my work focuses on two points. One is to
follow closely the Project objectives. The other is to maintain the ADC standard
in all program implementation. With the assistance of my colleague, Dr. Veit Burger,
I hope there will be no deviation from these two points.

To Follow Closely the Project Objectives

Among the two major objectives of this Project, the first one, to train
Nepalese in agricultural research and development planning, is rather broad and
general which can cover almost everything mentioned in this Report. The second
one, to assist HMG to develop the institutional capacity to make more productive
use of human and physical resource endowments, is important but is difficult to
translate it into action programs.

The best way to make more productive use of human and physical resource
endowments is to tap their talent to discover, impart and generate new knowledge
and to applied such new knowledge in developing Nepalese agriculture.

As we know, many HMG officials are knowledgeable and experienced in Nepalese
agricultural development. We have to identify them and to discover their talent.
We have to arrange the opportunities for them to share their knowledge with their
countrymen. For some of these HMG officials and young ADC fellows who have received
training in doing research, we have to encourage them to apply their skills to gene-
rate new knowledge useful to agricultural development.

To achieve the above mentioned objectives, this Project has organized seminars
and training courses and has published seminar reports or proceedings. The results
of such endeavours are not at all unimpressive.

A total of 548 knowledgeable persons from both public and private sectors par-
ticipated in the seminars or training courses organized by this Project. Some of
them may have attended the Project activities more than once. It would be fair to
say that at least more than 500 persons getting involved with the Project activities
in seminars and training courses. What is more important is that one-fifth of them,
or 100, are women, a very important component of development resource endowment.
A wealth of valuable knowledge has been discovered and recorded through the exchange
of views in those activities.

Except for Hill Agricultural Development Seminar including 10 papers prepared by foreign participants and for appropriate Technology seminar having five papers jointly prepared by both Nepalese and foreign experts, all papers presented in those Seminars were prepared by Nepalese experts. Since all seminar reports have been published, many people would have the opportunity to read these reports.

All training courses gave same emphasis on training for the trainers. The knowledge imparted from those training courses would have multiplier effects in sharing and distributing accumulated experience.

Many well-trained young social scientist interested in doing research to generate new knowledge should be further encouraged. The publication of Research Paper Series may serve this purpose. Due to the wide circulation of this publication, it serves as a professional linkage between Nepal and outside the world.

To Maintain the ADC Standard in All Program Implementation

ADC programs in Asia are famous in high quality, on planned schedule and at minimum cost. For Nepal program, there is no exception as we should maintain the same standard.

1. High Quality of Work

Program with good quality always has a high payoff. On our fellowship program, we have selected the most competent candidates and enrolled them at the leading universities in Asia, Australia or U.S.A. Because of their high quality of training, our fellows after their return all occupy important posts in their respective organization.

Having good professors guiding their studies, the quality of our fellows' theses is also far above average. The condensed form of their theses published in the Research Paper Series has gained good reputation among the academic circle in Asia and north America.

For training courses, the Project also recruited highly competent experts to give lectures and arranged useful field trips for on-the-spot observations.

2. On Planned Schedule

Based on our budgetary position, we propose the program of work at least from six months to one year in advance. The proposed programs must be discussed in a joint meeting among the HMG, USAID and ADC staff. After getting the approval from both HMG and ADC President, the proposed programs have been carried out according to the planned schedule.

3. At Minimum Cost

There are three factors which affect the cost of Project program operation. Firstly, ADC would prefer to carry out program with low profile. As a small organization, the Associate has been delegated in making decisions on the spot as long as

the proposed program has been approved by the ADC President in principle in advance. This increases the efficiency and reduces the cost of operation.

Secondly, ADC would usually cooperate with an agency to carry out a specific program at cost sharing basis. Our small grant can bring longer mileage, if the cooperator would share a part of the costs.

Thirdly, if time would permit, ADC staff would do most work by themselves. This reduces the overhead expenditure.

The total budget for this Project is \$1.5 million covering a period of five years. The average budget per year is \$300,000. With so many activities carried out each year, the average cost per activity appears to be reasonably low. At the end of the fifth year, the Project still has a savings enough to continue the operation of the Project activities for a few more months.

As agreed by the HMG, USAID and ADC, a new Project has been proposed to become the second phase of this Project. The content of this new Project may be different from the old one. The standard used in program operation should remain the same.

I wish the success on program operation for the extended period of this existing Project, the success for getting early approval of the new Project, and the smooth program transfer from the existing Project to the new one.

LIST OF APPENDICES

- I Project Agreement Signed between the Secretary of Agriculture and President Ruttan.
- II Letter of President Ruttan to Secretary of Agriculture on the Appointment of Dr. Shao-er Ong as ADC Associate for Nepal.
- III Master's Degree Fellows, Completed and Currently-Studying
- IV Ph. D. Fellows, Completed and Currently-Studying
- V List of Participants Attending the Inservice Training Course on Agricultural Development and Administration Organized by the Kasetsart University, Thailand in Collaboration with Agricultural Development Council in both Bangkok and Kamphangsaen Campuses.
- VI Training Staff of the Inservice Training Course on Agricultural Development and Administration Organized by the Kasetsart University and ADC in Bangkok, Thailand.
- VII List of Participants Attending the Training Course on Agribusiness for Nepalese Women Organized by Kasetsart University and ADC, Bangkok, Thailand.
- VIII Organizing Committee of a Training Course on Agribusiness for Nepalese Women Kasetsart University, Bangkok.
- IX Country Course of Food and Agricultural Marketing Statistics.
- X Seminar on Water Management and Control at the Farm Level in Nepal.
- XI Seminar on Farm Resource Allocation for Efficient Crop and Livestock Systems in Nepal.
- XII Seminar in Inter-Agency Cooperation and Coordination in Programme Planning, Implementation and Evaluation at the Ministry Level.
- XIII Seminar on Job Satisfaction Problems in Agricultural Development in Nepal.
- XIV Seminar on Nepal's Experience in Hill Agricultural Development Organized by the Ministry of Food and Agriculture His Majesty's Government of Nepal in Collaboration with the Agricultural Development Council.
- XV Seminar on Integration of Women in the Main Stream of National Development.
- XVI Seminar on Appropriate Technology for Hill Farming Systems.

A / D / C

The Agricultural Development Council, Inc.

P. O. Box 1312
Kathmandu, Nepal

Cable : AGRIDEVEL
KATHMANDU

October 21, 1976

Mr. D.R. Koirala
Secretary
Ministry of Food, Agriculture
and Irrigation
His Majesty's Government of Nepal
Singha Durbar
Kathmandu, Nepal

Dear Mr. Secretary:

Subject: Agricultural Development Council Assistance
to His Majesty's Government of Nepal

Purpose

1. The Agricultural Development Council proposes to offer assistance to His Majesty's Government of Nepal in the areas of research and training in the social sciences related to the economic and human problems of agricultural and rural development in Nepal.

2. In the furtherance of this objective the Council will provide a Council Associate and a Council Specialist and will assist His Majesty's Government of Nepal in implementing a series of research and training activities entitled "Training Nepalese in Agricultural Research and Development Planning".

Responsibilities of the Agricultural Development Council

3. The Council hereby agrees to provide the services of Council Associate in response to the above request without direct cost to His Majesty's Government. The Council further agrees to provide a Council Specialist and to provide the services described in the Project, under the conditions described therein.

for.
WSP

4. The Council Specialist will be placed in the Evaluation and Project Analysis Division of the Ministry of Food, Agriculture and Irrigation and will develop a plan of research and training which will implement the objectives of the Project as they are described in the Project proposal and its implementation documents. The Project will be funded jointly by the Council and by a grant from USAID to the Council, together with resources contributed by His Majesty's Government.

5. The Council Associate will be placed, in the first instance, at the Agricultural Projects Services Centre and will develop in cooperation with the Executive Director of the Centre a program of activities which may include, among other professional activities, the following:

- (a) Participation in activities related to the Project.
- (b) Small but carefully designed research activities related to the economic and human problems of agricultural and rural development in Nepal.
- (c) Consultations on matters of research design, analytical procedures and the preparation of research results.
- (d) Training of junior staff members in research methodology.

6. The relationship of Council staff to the Ministry of Food, Agriculture and Irrigation and the Agricultural Projects Services Centre shall not preclude their engaging in other professional activities on behalf of the Council. As an integral part of his assignment, the Council Associate will engage in the Council's regional program of seminars, workshops, scholarship activities and in activities devoted to the professional development of the rural social sciences in Nepal. In pursuing these activities, arrangements will be made to keep disruption of research and training activities of the Agricultural Projects Services Centre to a minimum. All travel expenses except those made at the specific request of the Agricultural Projects Services Centre will be borne by the Council or from Project funds, when appropriate. The Council Specialist will devote most of his efforts to the Evaluation and Project Analysis Division of the Ministry of Food, Agriculture and Irrigation and to the activities described in the Project proposal.

7. In addition to the activities of the Project, the Council will consider requests for grants-in-aid for research projects for research and training materials in the rural social sciences, and for fellowships for studies abroad. Participation by the Council Associate in preparing

Handwritten initials:
W.A.R.

such requests shall not be considered to constitute approval of the grant or fellowship by the Council since they may only be made by the Council's Board of Trustees.

8. The Council staff members will be entitled to one month of annual leave after approximately eleven months of service and again after twenty three months of service.

Responsibilities of His Majesty's Government

9. The institutions to which the Council staff members are assigned will designate the Council staff members as Participating Research and Training Officers.

10. The Ministry of Food, Agriculture and Irrigation and the Agricultural Projects Services Centre shall provide without cost to the Council or the Project the following services:

- (a) Office space, together with appropriate secretarial services, furnishings and equipment.
- (b) Ordinary consumable office supplies, duplication and printing services as may be appropriate.
- (c) Access to library facilities including a core collection of journals and reference books.
- (d) The services of research assistants, field enumerators and investigators as may be appropriate.
- (e) Providing general assistance to the Council staff and their families in getting established in Nepal.

Other Provisions

11. Any issues or problems which arise concerning this agreement shall be subject to discussion and negotiation between the designated representative of His Majesty's Government and the President of the Council or his designated representative on behalf of the Council.

12. Foreign personnel and their families serving in Nepal pursuant to this agreement shall be granted visas and appropriate exit and re-entry permits which are standard for the personnel of United Nations agencies.

for
WTR

13. At least to the same extent and for the same items as it does for the experts of the United Nations agencies, His Majesty's Government will exempt from taxes all payments to such foreign personnel by the Council.

14. At least to the same extent and for the same items as it does for the experts of the United Nations, His Majesty's Government will exempt from all other taxes including customs duties, excise taxes or transfer taxes on any imports by foreign personnel provided by the Council for personal use and for use in connection with projects under this Agreement at any time during the life of this Agreement.

15. The provisions of this letter shall be in effect immediately and shall be valid for an initial period of three years, to be extended for two more years on the basis of the availability of funds to the Council.

Please indicate your agreement with the foregoing by signing the confirmation form on the enclosed copy of this letter and returning it to us.

Very truly yours,

AGRICULTURAL DEVELOPMENT COUNCIL

By



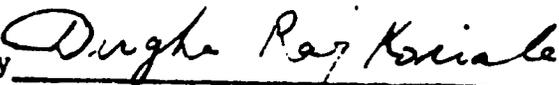
President

Oct 21, 1976

CONFIRMED:

MINISTRY OF FOOD, AGRICULTURE
AND IRRIGATION OF HIS MAJESTY'S
GOVERNMENT OF NEPAL

By



Secretary

Oct 21, 1976

A/D/C

The Agricultural Development Council, Inc.

P. O. Box 1312
Kathmandu, Nepal

Cable : AGRIDEVEL
KATHMANDU

October 16, 1977

Mr. D.R. Koirala, Secretary
Ministry of Food, Agriculture
and Irrigation
His Majesty's Government of Nepal
Singh Darbar
Kathmandu, Nepal

Dear Mr. Koirala,

Dr. William Bateson will complete his assignment as Associate in Nepal by December 30, 1977. The purpose of this letter is to nominate Dr. Shao-er Ong as the A/D/C Associate in Nepal.

Dr. Ong is the senior A/D/C Associate. He has had a distinguished career with the Food and Agriculture Organization of the United Nations and with the Council. A copy of his resume is attached.

If Dr. Ong's appointment as A/D/C Associate in Nepal is acceptable to the Government of Nepal, the Council will plan to transfer Dr. Ong from his present post in Thailand to assume full time responsibility in Nepal on August 1, 1978. Dr. Ong will however, be able to make periodic visits to Nepal to deal with issues associated with Program policy and administration before assuming full time responsibility in August. Dr. Veit Burger, will of course be in Nepal during this period and will be available for consultation on the more routine issue of program management and operation.

In his capacity as A/D/C Associate, Dr. Ong would have responsibility for the HMG/AID/ADC project on "Training Nepalese in Agricultural Research and Development Planning". Dr. Ong will also be responsible for other ADC professional development activities in Nepal, including the ADC fellowship, small grant, conference and related training activities not covered under this Training Nepalese project.

It is anticipated that Dr. Ong will be officed, in the first instance, in the Agricultural Project Services Center (APROSC). On policy issues related to the administration and management of the Training Nepalese project he will report directly to the Secretary of the Ministry of Food, Agriculture and Irrigation. Project and other activity details conducted under the Training Nepalese project will be worked out jointly with the leadership of the appropriate unit or units in the Ministry of the Agriculture family, including the Agricultural Projects Services Center, the Agriculture Bank, the Department of Agriculture, Department of Food, Agriculture and Marketing, the Department of Irrigation and others. Dr. Ong will also be responsible for maintaining liason with the US Agency for International Development,

Mr. D.R. Koirala
Singh Darbar

October 16, 1977

the International Agricultural Development Service with other relevant agencies. It will be his responsibility to prepare the semi annual reports on the progress of the Training Nepalese project and reviewing those reports with the Government of Nepal and the US Agency for International Development in Nepal before forwarding the reports to the Council President for formal transmission to USAID in Washington.

If the arrangement to station Dr. Ong in Nepal is satisfactory, I would hope that his appointment could be continued until at least through the completion of the "Training Nepalese" project in 1981.

I will look forward to hearing a response from you in the near future.

Sincerely yours,



Vernon W. Ruttan
President

cc: B.P. Dhital
T.N. Pant
B.B. Khadka
R.B. Singh
Robert Craig
J. Wilson
Shao-er Ong
W.M. Bateson
A.R. Stevenson
A.T. Masher

MASTER'S DEGREE FELLOWS, COMPLETED AND CURRENTLY-STUDYING

(As of September 30, 1981)

COMPLETED

<u>Name</u>	<u>Institution</u>	<u>University</u>	<u>Degree in</u>	<u>Began</u>	<u>Completed</u>
1. Saroj K. Gyawali	ADB	Thammasat	Econ.	5/72	10/74
2. Devendra P. Chapagain	MFA	UPLB	Ag. Econ.	11/73	4/76
3. Som P. Pudasaini	ADB	UPLB	Ag. Econ.	5/74	7/76
4. Dina N. Misra	DA	PAU	Ag. Econ.	7/75	3/78
5. Chandra Man Rokaya	ADB	UNE	Ag. Econ.	2/76	5/79
6. Kamal Banskota	APROSC	UP Diliman	Econ.	4/76	4/78
7. Arjun Jung Shah	CEDA	UPLB	Ag. Econ.	4/76	12/78
8. Ganesh Rauniyar	TDB	Thammasat	Econ.	6/76	8/78
9. Govind P. Koirala	ADB	UP Diliman	Econ.	9/76	8/78
10. Ramesh Sharma	APROSC	UNE	Ag. Econ.	3/77	3/79
11. Tilak Rawal	APROSC	PULB	Ag. Econ.	3/77	9/79
12. Ganesh B. Thapa	DA	UPLB	Ag. Econ.	3/77	9/79
13. Bishnu B. Silwal	ADB	Thammasat	Econ.	3/77	9/79
14. Purushotam K. Mudhabary	APROSC	UP Diliman	MAB	4/77	12/78
15. Bharat B. Karki	APROSC	UP Diliman	Econ.	4/77	9/79
16. Krishna Hari Maharjan	ADB	Thammasat	Econ.	3/78	10/80
17. Madhab R. Khoju	ADB	UPLB	Ag. Econ.	3/78	9/80
18. Dibakar Poudyal	DFAMS	UPLB	Ag. Econ.	3/78	9/80
19. Ramesh N. Amatya	NPC	UP Diliman	Econ.	3/78	9/80
20. Bharat K. Mainali	APROSC	UP Diliman	Econ.	3/78	12/80
21. Raghu N. Shrestha	DFAMS	UPLB	Statistics	6/78	12/80
22. Prakash C. Aryal	APROSC	Andhra	Ag. Econ.	7/78	11/80
23. Shyam K. Poudyal	APROSC	Tamil Nadu	Ag. Econ.	7/78	11/80
24. Sushil Pandey	APROSC	UNE	Ag. Econ.	2/78	4/81
25. Shiva P. Sharma	APROSC	Thammasat	Econ.	4/79	8/81
26. Kusheshwar Matho	ADB	UP Diliman	MBA	4/79	4/81
27. Kiran Man Singh	ADB	UP Diliman	MBA	4/79	4/81
28. Jyoti P. Lohani	APROSC	UP Diliman	MBA	4/79	4/81

CURRENTLY STUDYING

<u>Name</u>	<u>Institution</u>	<u>University</u>	<u>Degree in</u>	<u>Began</u>
1. Binod K. Karmacharya	CEDA	UPLB	Ag. Econ.	4/79
2. Krishna B. Hamal	APROSC	UNE	Ag. Econ.	7/79
3. T.B. Thapa	DA	Thammasat	Econ.	6/80
4. K.K. Rauniyar	ADB	UPM	Econ.	6/80
5. P.B. Malla	ADB	UPM	Res. Econ.	6/80
6. N.B. Rajbhanshi	NFC	UPM	Res. Econ.	6/80
7. R.B. Katwal	APROSC	Thammasat	Econ.	6/80
8. R.L. Shrestha (Mrs.)	APROSC	ANU	MADE	6/80
9. S.K. Pradhan	AIC	Tamil Nadu	Ag. Econ.	8/80
10. Ram Krishna Sharma	APROSC	UNE	Econ. Statistics	2/81
11. Padma Bahadur Shakya	DA	UPLB	Ag. Econ.	4/81
12. Jit Pradhan Bhuktan	ADB	Thammasat	Econ.	4/81
13. Padma Bahadur Singh	DA	UPLB	Ag. Econ.	11/81
14. Shyam Bahadur Khadka	ADB	UPLB	Rural Dev. Management	4/81

Abbreviations

UPLB	University of the Philippines at Los Banos, Philippines
UP Diliman	University of the Philippines at Diliman, Philippines
PAU	Punjab Agricultural University, Ludhiana, India
UNE	University of New England, Armidale, Australia
ANU	Australian National University, Canberra, Australia
Thammasat	Thammasat University, Bangkok, Thailand
Tamil Nadu	Tamil Nadu Agricultural University, Coimbatore, India
Andhra	Andhra University, Waltair, India
UPM	University Pertanian Malaysia, Serdang, Malaysia

APPENDIX IV

Ph.D. FELLOWS, COMPLETED AND CURRENTLY-STUDYING

(As of September 30, 1981)

	<u>Name</u>	<u>Institution</u>	<u>University</u>	<u>Degree in</u>	<u>Began</u>	<u>Completed</u>
1.	Bekha K. Maharjan	DFAMS	Missouri	Ag. Econ.	6/73	12/77
2.	Vijaya Shrestha	Panchayat	Mississippi	Rur. Econ.	8/76	5/80
3.	Som Pudasaini	ADB	Minnesota	Ag. Econ.	6/77	5/81
4.	Binayak P. Bhadra	CEDA	Oregon	Agri. & Res. Econ.	6/77	8/81
5.	Devendra P. Chapagian	MFA	Wisconsin	Ag. Econ.	6/79	-
6.	Durgesh M. Shrestha	APROSC	Florida	Res. Econ.	6/80	-

LIST OF PARTICIPANTS ATTENDING
THE INSERVICE TRAINING COURSE ON
AGRICULTURAL DEVELOPMENT AND ADMINISTRATION
ORGANIZED BY

THE KASETSART UNIVERSITY, THAILAND IN COLLABORATION WITH AGRICULTURAL DEVELOPMENT COUNCIL
IN BOTH BANGKOK AND KAMPHANGSAEN CAMPUSES
November 17 to December 22, 1980

<u>S.No.</u>	<u>Institution</u>	<u>Age</u>	<u>Title</u>	<u>Academic Qualification</u>	<u>Years of Service</u>
(1) Department of Agriculture					
1.	Mr. Nim Bahadur Adhikari	37	Agri. Officer, Bhaktapur	M.Sc. (Agri.Ext.)	13 Yrs.
2.	Mr. Dev Raj Bhatta	33	Agri. Officer, Palpa	M.Sc. (Agri.Ext.)	12 Yrs.
3.	Mr. Amritananda Baidya	35	Agri. Dev. Officer, Dhanusha	M.Sc. (Agri. Ext.)	12 Yrs.
4.	Mr. Jagannath Mahaseth	31	Asst.Agri.Dev.Officer, Sunsari	B.Sc. (Agri.)	7 Yrs.
(2) Department of Livestock					
5.	Mr. Lal Bahadur Chanda	37	Asst.Vet. Doctor, Bara	B.V.S. & A.H.	15 Yrs.
6.	Mr. Bholu Mehar Shrestha	37	Asst. Vet. Doctor, Lalitpur	M.V.Sc.	14 Yrs.
7.	Mr. Sikandar Shah	33	Asst.Livestock Officer, Terahera	B.Sc. (Agri.)	12 Yrs.
(3) Department of Food & Agricultural Marketing Services					
8.	Mr. Rabi Singh	31	Asst.Agri.Statistician, Kathmandu	M.Sc. (Stat.)	6 Yrs.
9.	Mr. Surya Bahadur Karki	34	Asst.Agri.Statistician, Kathmandu	B.Sc. (Agri.)	7 Yrs.
(4) Agricultural Development Bank					
10.	Mr. Ramchandra Prasad Sharma	32	Regional Manager, Nepalgunj	B.A. Com.	14 Yrs.
11.	Mr. Trilok Neupane	34	Branch Manager, Janakpur	M.A. (Econ.)	11 Yrs.
12.	Mr. Punya Prasad Poudyal	32	Sub-branch Manager, Gorkha	M.A. (Econ.)	11 Yrs.

<u>S.No.</u>	<u>Institution</u>	<u>Age</u>	<u>Title</u>	<u>Academic Qualification</u>	<u>Years of Service</u>
(5)	Agricultural Input Corporation				
13.	Mr. Dharma Raj Shakya	31	Branch Manager, Chitwan	B.A. (Agri.)	5 Yrs.
14.	Mr. Ganga Prasad Khaniya	30	Branch Manager, Dang	B.A. (Agri.)	8 Yrs.
15.	Mr. Govinda Lal Pradhananga	34	Evaluation Officer, Kathmandu	B. Com	9 Yrs.
(6)	DAIRY DEVELOPMENT CORPORATION				
16.	Mrs. Chapla Koirala	30	Economist, Kathmandu	M.A. (Econ.)	5 Yrs.
(7)	AGRICULTURAL PROJECTS SERVICES CENTER				
17.	Mr. Babu Hari Gyawali	35	Administrative Officer, Kathmandu	M.A. (Econ.)	3 Yrs.
(8)	Nepal Food Corporation				
18.	Mr. Khel Bahadur Shrestha	28	Chief Branch Manager, Bhadrapur	M.A. Com.	5 Yrs.
19.	Mr. Damoder Sapkota		Chief Branch Manager, Nepalgunj	M.A. Com.	5 Yrs.
(9)	Nepal Tea Development Corporation				
20.	Mr. Yadav Prasad Gartaula	27	Administrative Officer, Ilam	B.A. Com.	5 Yrs.
(10)	Central Food Research Laboratory				
21.	Mr. Yageshnandan Vaidya	35	Food Research Officer, Kathmandu	M.Sc. (Food)	9 Yrs.
(11)	Ministry of Food & Agriculture				
22.	Mr. Ram Chandra Maharjan	40	Section Officer, Kathmandu	B.A. (Com.)	13 Yrs.
23.	Mr. Gopal Timilsina	27	Section Officer, Kathmandu	M.A. (Econ.)	About 2 Yrs.
24.	Mrs. Basudha Bhattarai	28	Asst. Economist, Kathmandu	M.A. (Econ.)	7 Yrs.
25.	Misc Uma Shrestha	27	Asst. Economist, Kathmandu	M.A. (Econ.)	5 Yrs.

SE

Training Staff of the Inservice Training Course
On Agricultural Development and Administration Organised by the
Kasetsart University and ADC in Bangkok, Thailand
November 17 to December 22, 1980

The Agricultural Development Council Inc.

Shao-er Ong Ph.D
Viet Burger Ph.D

The Asian Development Bank

Burton T. Oate Ph.D

Food and Agricultural Organization of the United Nations

Bhakdi Lusananda Ph.D
B.N. de Los Reyes Ph.D

International Labor Organization of the United Nations

A.R. Khan Ph.D

The National Institute of Development Administration

Titaya Suvanajata Ph.D., Rector

The National Economic and Social Development Board

Kosit Panpiemras M.A., Director
Division of Economic Studies

National Inland Fisheries Institute, Ministry of Agriculture
and Cooperatives

Plodprasop Suraswadi Ph.D

Kasetsart University: Faculty of Agriculture

Anothai	Choomsai	Ph.D, Department of Horticulture
Aphiphan	Pookpakdi	Ph.D, Department of Upland Crops
Kasem	Sooksathan	Ph.D, Department of Upland Crops
Pote	Boonruang	Ph.D, Department of Extension
Supot	Fuangfupong	Ph.D, Department of Upland Crops
Aschan	Sookthamrong	Ph.D, Department of Soil Sciences
Pavin	Puneri	M.S., Director, Highland Agriculture Project.
Norasih	Trakulchang	Ph.D, Department of Animal Husbandry
Sucheep	Ratarasan	Ph.D, Department of Animal Husbandry

Kasetsart University : Faculty of Economics and Business Administration

Sopin	Tongpan	Ph.D, Dean of the Faculty
Chamnien	Boonma	Ph.D, Head Department of Agricultural Economics
Pradit	Machima	M.A., Department of Cooperatives
Tongroj	Onchan	Ph.D, Department of Agricultural Economics
Kamphol	Adulavidhaya	Ph.D, Director, Institute of Research and Development
Boonjit	Titapiwatnakul	Ph.D, Agribusiness Management Program

Thammasart University

Akin Rabibhadana Ph.D, Director, Institute of Thai Studies

University of Philippines

P.R. Sandoval Ph.D

Department of Agriculture

Paderm Titatarn M.S., Director General
Praphas Weerapat Ph.D, Rice Division

Department of Agricultural Extension Service

Mr. Yukti Sarigaphuti M.S., Director General

Office of Agricultural Economics

Somnuk Sriplung Ph.D, Secretary - General, Office of Agricultural Economics; Ministry of Agriculture and Cooperative Bangkok

Projects Division, Ministry of Agriculture & Co-operatives

R.A. Ralston Ph.D, Specialist, Division of Project; Office of Undersecretary, Ministry of Agriculture and Cooperatives, Bangkok

Bangkok Bank Limited

Chusak Himathongkok B.S., Director, Agricultural Credit Center Bangkok Bank Co. Ltd., Bangkok

Bank for Agriculture & Agricultural Co-operatives

Chamlong Tohtong M.A., General Manager Bank for Agriculture
and Agricultural Cooperatives, Bangkok

Department of Community Development

Pairat Decharin Ph.D, Deputy Director General, Department of
Community Development; Ministry of
Interior, Bangkok

Kamolkiij Co.

Kamchai Iemsuri, President
Kamolkiij Company Ltd.
Bangkok

**List of Participants Attending the Training Course on
Agribusiness for Nepalese Women
Organized by Kasetsart University and ADC, Bangkok,
Thailand
August 22 to September 6, 1981**

<u>S.No.</u>	<u>Name</u>	<u>Institutions</u>
1.	Mrs. Kalpana Gaire	Ministry of Agriculture
2.	Mrs. Shanti Rayamajhi	Ministry of Agriculture
3.	Mrs. Bina Shrestha	Dept. of Food and Agricultural Marketing Services
4.	Mrs. Sonam Joshi	Agricultural Inputs Corporation
5.	Miss Umatri Shrestha	Nepal Food Corporation
6.	Mrs. Sudha Pant	Agricultural Projects Services Centre
7.	Miss Ishwari Karki	Agricultural Development Bank
8.	Mrs. Gauri*Rayamajhi	Women's Training Centre
9.	Miss Radhika Singh	National Trading Limited
10.	Miss Sadhana Sharma	Nepal Rastra Bank
11.	Miss Nita Sharma	Rastriya Banijya Bank
12.	Mrs. Indra Gurung	Nepal Bank Limited
13.	Miss Rita Shrestha	Central Food Research Laboratory
14.	Miss Roshan Karki	Women's Services Coordination Committee
15.	Miss Mandira Dali	National Planning Commission
16.	Mrs. Uma Thapa	Tribhuvan University

Organizing Committee of A Training Course on
Agribusiness for Nepalese Women
Kasetsart University, Bangkok

Aug. 22 to Sept. 6, 1981

- Director: Mrs. Sriaroon Resanond, Associate Professor,
Department of Business Administration.
- Co-ordinator: Dr. Chamnien Boonma, Assistant Professor
and Head of Dept. of Agricultural
Economics.
- Advisors: Dr. Krishna Chutima, Professor and Vice
Rector for Academic Affairs
- Mr. Porn Suwanvajokasikit, Director of
Extension and Training Centre.
- Dr. Sopin Tongpan, Associate Professor and
Dean of Faculty of Economics and
Business Administration.
- Resource Persons:
- Dr. Tongroj Onchan, Associate Professor and
Director of Center for Applied
Economics Research
- Dr. Vinich Veerayankul, Assistant Professor
Dept. of Business Administration.
- Mrs. Chanphen Jarpakasetr, Assistant Professor
Dept. of Business Administration.
- Dr. Boonjit Titapiwatanakun, Lecturer, Dept.
of Agricultural Economics.
- Miss Jinda Khuntong, Lecturer, Dept. of
Accounting
- Mr. Boonterm Tiravatanaprasert, Lecturer,
Dept. of Agricultural Economics.
- Mr. Chatri Tinprapha, Lecturer, Dept. of
Agricultural Economics.
- Miss Nongnut Awngyurekul, Lecturer, Dept.
of Agricultural Economics.
- Mr. Kajit Sukhum, Lecturer, Dept. of
Agricultural Economics.

Country Course
of
Food and Agricultural Marketing Statistics
(August 10 - September 10, 1981)

List of Participants

<u>Name</u>	<u>Designation</u>	<u>Name of the Organization</u>
1. Miss Sadhana Sharma	Food Research Officer	Central Food Research Laboratory
2. Mr. Kamal Prasad Upadhaya	Asstt. Research Officer	Centre for Economic Development and Administration
3. Mr. Keshab Prasad Shrestha	Asstt. Planning Officer	Department of Agriculture
4. Mr. Gopi Ram Thapa	Senior Assistant	Agricultural Inputs Corporation
5. Mr. Surjit Prasad Shrestha	Asst. Research Officer	Nepal Rastra Bank
6. Mrs. Usha Acharya	Asstt. Officer	Nepal Rastra Bank
7. Mr. Samarendra Shukla	Training Officer	Nepal Food Corporation
8. Mr. Purna Shankar Bassi	Asstt. Internal Audit Officer	Nepal Food Corporation
9. Mr. Ramesh Nath Gongal	Section Officer	Agricultural Deve. Bank
10. Mr. Brahma Narayan Shrestha	Statistician	Central Bureau of Statistics
11. Mr. Dharma Nath Paudyal	Economist	Central Bureau of Statistics
12. Dr. Madhav Gautam	Nutrition Specialist	Agriculture Project Services Centre
13. Mr. Umeswor Man Pradhan	Asstt. Planning Officer	Dept. of Livestock Dev. & Animal Health
14. Mr. Juju Kaji Shrestha	Asstt. Agri. Statistician	Dept. of Food & Agri. Marketing Services
15. Mr. Yagyash Prasad Gautam	"	"
16. Mr. Ramesh Chandra Das	"	"
17. Mr. Shailendra Man Gubhaju	"	"
18. Mr. Shaligram Mishra	Technical Assistant	"

19.	Mr. Ananda Ratna Bajracharya	Asst. Agri. Marketing Economist	Dept. of Food & Agri. Marketing Services
20.	Mrs. Leela Sharma	Asst. Agri. Marketing Economist	"
21.	Mr. Manoj Kumar Khatri	Technical Assistant	"
22.	Mr. Madan Gopal Shrestha	"	"
23.	Mr. Shiva Kumar Upadhaya	Asst. Agri. Economist	"
24.	Mrs. Nirmala Adhikari	"	"
25.	Mr. Madhav Prasad Dhakal	Technical Assistant	"

Seminar on Water Management and Control at the Farm Level in Nepal
October 25 to 27, 1978

Rastriya Panchayat

1. Mr. Ghimire, Radha P. Honorable Member

Ministry of Food, Agriculture and Irrigation (MFAI)

2. Mr. Khadka, Bed B. Joint Secretary
Planning and Coordination Division
3. Mr. Singh, Rameswar B. Joint Secretary
Evaluation and Project Analysis
Division

Department of Agriculture (DA/MFAI)

4. Mr. Gorkhali, Purushottam Chief
Farm Irrigation and Water Utilization
Division (FIWUD)
5. Mr. Jha, Riddi N. Assistant Water Utilization Officer
FIWUD
6. Dr. Lohani, Shiv N. Agronomist
Integrated Cereals Project
7. Mr. Nepali, Shiva K. Director-General
8. Mr. Neupane, Rishi R. Assistant Agricultural Engineer
FIWUD
9. Mr. Shrestha, Mahesh M. Water Utilization Officer
FIWUD

Department of Irrigation, Hydrology and Meteorology (DIHM/MFAI)

10. Mr. Bhatta, Chitra D. General Manager
Narayani Irrigation Development Project
11. Mr. Bhattarai, Hava R. General Manager
Battar Irrigation Project
12. Mr. Pradhan, Bhubanesh K. Director-General
13. Mr. Rayamajhi, Dev B. Regional Director
Central Development Region
14. Mr. Thakur, Guna N. General Manager
Chitwan Irrigation Development Project
15. Dr. Thapa, Ananda B. General Manager
Kankai Irrigation Development Project

Agricultural Development Bank (ADB/MFAI)

16. Mr. Koirala, Dharma N. Chief
Research and Planning Division

Agricultural Projects Services Centre (APROSC/MFAI)

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| 17. Mr. Adhikari, Raghu N. | Economist |
| 18. Mr. Adhikari, Surendra B. | Research Assistant |
| 19. Mr. Karki, Madhav | Agriculturist |
| 20. Mr. Lohani, Jyoti P. | Engineer |
| 21. Mr. Pandey, Ashok R. | Mass Communication Expert |
| 22. Mr. Pandey, Sushil | Economist |
| 23. Mr. Dr. Pant, Thakur N. | Executive Director |
| 24. Mr. Shah, Ranjit | Soil Specialist |
| 25. Mr. Singh, Durgesh M. | Senior Economist |

USAID/N

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| 26. Mr. Douglas, William | Chief
Rural Development Division |
| 27. Mr. Pitts, Staley | Agricultural Officer
Agriculture Division |

Agricultural Development Council (A/D/C)

- | | |
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| 28. Dr. Burger, Veit | Research Specialist |
| 29. Dr. Ong, Shao-er | Associate |

53

Seminar on Farm Resource Allocation for Efficient Crop and
Livestock Systems In Nepal
January 28-30, 1981

LIST OF PARTICIPANTS

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2. Mr. Shrestha, Tek B. Economist
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3. Dr. Mathema, P. R. Economist

Department of Agriculture (DA/MFAI)

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Integrated Cereals Project
6. Dr. Joshi, Durga D. Investigation Officer
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Animal Science
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Crop Science
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19. Mr. Shrestha, Ram K. Chief
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24. Miss Joshi, Ram Rajya L. Economist
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29. Mr. Shrestha, Lumin K. Economist
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USAID/Nepal

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34. Dr. Burger, Veit Research Specialist
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**Seminar in Inter-Agency Cooperation and Coordination in Programme
Planning, Implementation and Evaluation at the Ministry Level**

May 17-18, 1979

LIST OF PARTICIPANTS

National Planning Commission (NPC)

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|----|------------------------|------------------|
| 1. | Dr. Sainju, Mohan M. | Honorable Member |
| 2. | Mr. Singh, C.M. Prasad | Joint Secretary |

Ministry of Finance

- | | | |
|----|-------------------------|-----------------|
| 3. | Dr. Pant, Thakur N. | Joint Secretary |
| 4. | Mr. Shrestha, Hit Singh | Joint Secretary |

Ministry of Industry and Commerce

- | | | |
|----|------------------|-----------------|
| 5. | Mr. Sharma, R.P. | Joint Secretary |
|----|------------------|-----------------|

Ministry of Home and Panchayat

- | | | |
|----|--------------------|----------------------|
| 6. | Mr. Kafle, M.P. | Additional Secretary |
| 7. | Mr. Shrestha, B.K. | Joint Secretary |

Ministry of Land Reform

- | | | |
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| 8. | Mr. Sharma, Bhesh R. | Director-General
Department of Land Reform |
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Ministry of Food, Agriculture and Irrigation (MFAI)

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| 9. | Mr. Basnyat, Top B. | Senior Technical Advisor |
| 10. | Mr. Bista, Dinesh B. | Assistant Economist |
| 11. | Mr. Chapaqain, Devendra P. | Economist |
| 12. | Mr. Khadka, Bed B. | Joint Secretary |
| 13. | Mr. Maharjan, Ram C. | Section Officer |
| 14. | Miss Pathak, Leela | Economist |
| 15. | Mr. Rana, Pearl J. | Senior Technical Advisor |
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| 17. | Mr. Singh, Shambhu M. | Senior Technical Advisor |

Department of Agriculture (DA/MFAI)

18. Mr. Bhattarai, A. N. Deputy Director-General
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20. Mr. Nepali, Shiva B. Director-General
21. Mr. Rajbhandary, K. B. Chief
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Agricultural Projects Services Centre (APROSC/MFAI)

31. Mr. Adhikari, Surendra B. Research Assistant
32. Mr. Gurung, Udaya Anthropologist
33. Miss Joshi, Ram Rajya L. D. Economist

**Seminar on Job Satisfaction Problems in Agricultural Development
In Nepal
February 10, 1980**

LIST OF PARTICIPANTS

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Ministry of Water and Power (MWP)

3. Mr. Pradhan, B. K. Director-General
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and Meteorology

Ministry of Food and Agriculture (MFA)

4. Mr. Devkota, S. Research Assistant
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7. Dr. Rajbhandary, Kamala B. Joint Secretary
8. Mr. Rana, Akur N. Joint Secretary
9. Mr. Shrestha, Tek B. Economist
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10. Miss Shrestha, Uma Assistant Economist
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11. Mr. Singh, Shambhu M. Senior Technical Advisor
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Department of Agriculture (DA/MFA)

13. Mr. Bhattarai, Achyut N. Deputy Director-General
(Extension and Training)
14. Dr. Freeman, Wayne H. Supervisor
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15. Mr. Pradhan, M. L. Regional Director
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16. Mr. Rajbhandary, Keshab B. Chief
Hill Area Development Project

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24. Mr. Singh, Durgesh M. Senior Economist

25. Mr. Upadhyaya, Rishikesh Publication Officer

26. Dr. Yadav, Ram P. Executive Director

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27. Dr. Agrawal, Govinda R. Executive Director
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28. Mr. Basnyat, N. B. Dean
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29. Mr. Shrestha, R. P. Research Coordinator

USAID/Nepal

30. Mr. Pickett, Douglas Program Officer

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31. Mr. Baidya, H. R.

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Agricultural Development Council, Inc. (A/D/C)

32. Dr. Burger, Veit

Research Specialist

33. Dr. Ong, Shao-er

Associate

Seminar on Nepal's Experience in Hill Agricultural Development
Organised by the Ministry of Food and Agriculture
His Majesty's Government of Nepal
In collaboration with the Agricultural Development Council
30 March to 3 April 1981

List of Participants and Observers

A. Participants from Nepal

<u>Organization</u>	<u>Name and Title</u>
I. Ministry of Food and Agriculture (MFA)	1. Mr. B.B. Khadka, Secretary
	2. Dr. T.N. Pant, Joint Secretary
	3. Dr. K.B. Rajbhandary, Joint Secretary
	4. Mr. A.N. Rana, Joint Secretary
	5. Mr. K.B. Rajbhandary, Senior Technical Advisor
	6. Mr. S.B. Nepali, Senior Technical Advisor
	7. Mr. D.N. Koirala, Section Chief
	8. Dr. B.L. Maharjan, Agricultural Economist
	9. Mr. G.B. Thapa, Assistant Economist
I.1 Department of Agriculture	10. Mr. P.N. Rana, Director-General
	11. Mr. P.P. Gorkhaly, Regional Director, Central Development Region
	12. Mr. K.M. Dixit, Chief, Agricultural Information Division
	13. Mr. M.M. Shrestha, Chief, Acting Farm Irrigation and Water Utilization Division
	14. Mr. I.R. Regmi, Agronomist
	15. Mr. S.B. Mathema, Agricultural Economist
	16. Dr. W. Freeman, Project Supervisor, Integrated Cereals Project
I.1.1 Pakhribas Agriculture Centre	17. Mr. M.R. Bhattarai, Seed Technologist
I.1.2 Lumle Agriculture Centre	18. Mr. B.R. Sthapit, Agronomist
I.1.3 Rural Save Grain Programme	19. Mr. T.B. Basnyat, Project Chief
	20. Dr. S.K. Bhalla, FAO Advisor

- I.2 Department of Livestock Development & Animal Health
21. Dr. H.B. Rajbhandary, Deputy Director General
22. Mr. S.G. Shah, Livestock Development Officer
- I.3 Department of Food and Agricultural Marketing Services
23. Mr. I.R. Misra, Director General
24. Mr. J.C. Gautam, Agricultural Economist
25. Mr. M.R. Satyal, Agricultural Economist
26. Mr. D. Paudyal, Assistant Agricultural Marketing Economist
- I.4 Agricultural Development Bank
27. Mr. S.K. Upadhyay, Deputy General Manager
28. Mr. G.P. Koirala, Loan Officer
- I.5 Agricultural Inputs Corporation
29. Mr. G.R. Shrestha, Deputy General Manager
30. Dr. R.H. Bradley, Project Supervisor, Seed Production and Inputs Storage Project
- I.6 Agricultural Projects Service Centre
31. Dr. R.P. Yadav, Executive Director
32. Mr. T.B. Rawal, Economist
- II. National Planning Commission (NPC)
33. Dr. M.M. Sainju, Member
34. Mr. E.J. Rana, Joint Secretary
35. Mr. R.B. K.C., Under Secretary
- III. Ministry of Local Development
36. Mr. B.K. Shrestha, Joint Secretary
- III.1 Integrated Hill Development Project
37. Mr. T.R. Joshi, Project Chief
- IV. Ministry of Water Resources
38. Dr. J.L. Nayava, Senior Meteorologist, Department of Irrigation, Hydrology and Meteorology

- V. Ministry of Forests
- V.1 Forest Department 39. Mr. M.D. Rajbhandary, Chief Supervisor
- V.2 Soil and Water Conservation Department 40. Mr. K.B. Malla, Acting Project Officer in Charge
- V.3 Community Forest Project 41. Mr. T.N. Bhattari, D.F.O.
- V.4 Resource Conservation and Utilization 42. Mr. S.R. Bajracharya, Agriculture Programme Specialist
- VI. Ministry of Land Reform 43. Mr. K.P. Manandhar, Deputy Registrar, Co-operatives Department
- VII. Ministry of Finance 44. Mr. J. Upadhyay, Under Secretary
45. Mr. B.R. Shrestha, Under Secretary
- VIII. Tribhuvan University
- VIII.1 Institute of Agriculture and Animal Sciences 46. Mr. P.P. Sharma, Assistant Dean
- VIII.2 Centre for Economic Development and Administration (CEDA) 47. Dr. G.R. Agrawal, Executive Director

B. Foreign Participants

- | <u>Country</u> | <u>Name and Title</u> |
|----------------|---|
| 1. China | 1. Mr. Chang Tayoang
Deputy Director, Department of Agriculture and Irrigation, Tibet |
| 2. Hongkong | 2. Dr. C.T. Wong
Deputy Director, Agriculture and Fisheries Department, Canton Road Government Offices, 393 Canton Road 7th Floor, Kowloon, Hongkong |

64

3. India
 3. Dr. S.L. Shah
Agricultural Economics Consultant
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 4. Dr. Thomas, S. Walker
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 7. Dr. Tan Bock Thiam
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65

7. Thailand
11. Prince Bhisatej Rajani
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12. Dr. Suranant Subhadrabandhu
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14. Dr. Jhon C. Flinn
Agricultural Economist
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C. Participants from Bilateral and Multilateral Agencies

<u>Agency</u>	<u>Name and Title</u>
1. Agricultural Development Council	1. Dr. Shao-er Ong, Associate 2. Dr. Veit Burger, Research Specialist
2. Asian Development Bank	3. Mr. E.F. Tacke, Deputy Director 4. Mr. Willem C. Beets, Agronomist
3. F.A.O.	5. Mr. Umberto Menini, Senior Horticulturist 6. Prof. Scaramuzzi, Vice Chancellor Florence University (Fruit Specialist)
4. German Technical Assistance (GTZ)	7. Mr. Scheffer Boichorst, Project Coordinator

5. I.B.R.D.
6. Swiss Association of Technical Assistance (SATA)
7. USAID
8. Mr. Richard G. Abbott, Resident Representative
9. Mr. J. Angehern, Technical Officer
10. Mr. Douglas R. Pickett, Chief, Agriculture and Resource Conservation Division
11. Dr. Paul Morris, Program Officer
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D. Observers

- I. Ministry of Food and Agriculture
 1. Mr. B.K. Thapa, Senior Technical Advisor
 2. Mr. S.M. Singh, Senior Technical Advisor
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I.1 Department of Agriculture

I.1.1

Janakpur Anchal Agricultural Development Project (JADP)

4. Mr. Y. Ebihara, Expert
5. Mr. M. Nagatoma, Expert
6. Mr. H. Maotani, Expert

I.1.2

Pakhribas Agriculture Centre

7. Mr. I.C. Hunter, Expert

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Lumle Agriculture Centre

8. Mr. G.R. Crooks, Expert

II. Ministry of Local Development

9. Prof. S. Islam, ADB Advisor

III. Tribhuvan University

III.1 Centre for Nepali and Asian Studies

10. Mr. T.N. Rajbanshi, Research Officer
11. Ms. Romila Acharya, Research Officer
12. Mr. Harihar Acharya, Research Officer

**Seminar on Integration of Women in the Main Stream of
National Development**

June 9 to 11, 1981

List of Participants

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Women Services Co-ordination
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| 3. Dr. Swarna Jayaweera, UNESCO Advisor,
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| 4. Dr. Shao-er Ong, Associate,
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| 5. Mr. Santa Bahadur Rai, Joint Secretary,
Ministry of Local Development,
Shree Mahal, Pulchowk, Patan. | 14. Ms. Ambica Shrestha, President,
Business and Professional Women's
Club, Kathmandu, Nepal. |
| 6. Mr. Narendra K. Basnyat, Registrar,
Department of Co-operatives,
Kamaladi, Kathmandu, Nepal. | and

Business: Kathmandu Travels,
Kathmandu, Nepal. |
| 7. Ms. Padmasana Shakya, Campus Chief,
Ratna Rajya Campus,
Bhrikutimandap, Kathmandu,
Nepal. | 15. Ms. Kamalesh L. Rajbhandary,
Incharge,
Seed Tech and Improvement Programme,
Agri. Bot. Division, Khumaltar,
Lalitpur, Nepal. |
| 8. Ms. Kalpana Bista, Member,
Rastriya Panchayat,
Mahakali Zone. | 16. Mrs. Omu Tempa Lama, Member,
District Panchayat, Makawanpur,
Ward No. 4, Hetauda Town Panchayat,
Makawanpur Dist. Narayani Zone,
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| 9. Dr. Thakur Nath Panta, Joint Secretary,
Ministry of Food and Agriculture,
Kathmandu, Nepal. | |

17. Shree Madhup Dhungana,
NEW ERA, Gyaneswar,
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18. Ms. Indira Shrestha, Programme Officer,
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19. Ms. Bisnu Kumari Rai, Member,
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20. Mrs. Tulsi Sharma, Member-Secretary,
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21. Ms. Madhuri Ale, Member,
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22. Ms. Kavita Koirala, Instructor,
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Ministry of Tourism, Kathmandu,
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23. Mrs. Durga Ghimire, Member-Secretary,
Social Services Co-ordination Committee,
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24. Dr. Keshari Laxmi Manandhar,
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25. Mrs. Surya Kumari Shrestha, Member-Secretary,
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26. Mrs. Kamala Neupane,
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27. Ms. Roshan Karki, President,
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29. Mr. Chiranjibi Karmacharya,
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30. Ms. Rina Tulachan, President,
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Kanti Iswari Shishu
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32. Mr. Mahesh Kumar Shrestha,
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Agriculture Development Ban
Dhankuta, Koshi Zone, Nepal
33. Ms. Bhadra Kumari Ghale, Member
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34. Ms. Rukmini Nepali, Instructor,
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35. Ms. Tirtha Maya Joshi,
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36. Shree Shakti Rayamajhi,
Section Officer,
Ministry of Home and
Panchayat, Singh Darbar,
Kathmandu, Nepal.
37. Shree Laxmi Maskey,
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Shree Mahal, Lalitpur, Nepal
38. Ms. Lynn Bennett, UNICEF,
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39. Ms. Sabitri Sharma, Ex-Zonal President, Nepal Women's Organisation, Rapti Zone, Dang District, Nepal.
40. Mrs. Frances Freeman, Women Services Co-ordination Committee, Bhrikutmandap, Kathmandu, Nepal.
41. Mrs. Chandra Gurung, Principal, Women's Training Centre, Jawalakhel, Lalitpur, Nepal.
42. Ms. Laxmi Pradhan, Economist, APROSC, Panchayat Plaza, Ramshah Path, Kathmandu, Nepal.
43. Rt. Hon. Kamal Rana "SAMBARTIKA", Baneswar, P.O. Box: 373, Kathmandu, Nepal.
44. Dr. Prabha Basnet, Assistant Dean, Social Science and Humanities, 21/560, Dilli Bazar, Dhobi Dhara, Tel. 12318, Kathmandu, Nepal.
45. Ms. Narayani Manandhar, Asst. Lecturer, Ratna Rajya Campus, Kathmandu, Nepal.
46. Ms. Dev Kumari Thapa, President, Nepal Bal Sangathan, Morang District, Koshi Zone, Nepal.
47. Ms. Meera Bhattarai, Director Nepal Mahila Sangathan, Nari Silpa Kala Bikas Pariyojana, Pulchowk Lalitpur, Nepal.
48. Ms. Indira Rana, Advisor (Under Secretary) National Population Commission, Post Box: 1118, Naxal, Kathmandu, Nepal.
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Seminar On
APPROPRIATE TECHNOLOGY FOR HILL FARMING SYSTEMS
Kathmandu, 22-26 June, 1981
Dept. of Agri., HMG Nepal/ADC/IGP

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