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#### PROJECT AUTHORIZATION

ENTITY:	Bureau	for	Science	and	Technology
PROJECT TITLE:	CRSP -	Bear	n/Cowpea		

PROJECT NUMBER: 931-1310

A. Pursuant to Section 103 of the Foreign Assistance Act of 1961, as amended, the centrally funded Bean/Cowpea CRSP project was authorized on October 1, 1980 and amended on January 31, 1983. That authorization is hereby further amended as follows:

1. The authorized final year of obligation is extended from FY 1985 to FY 1988.

2. The authorized life-of-project, S&T Bureau funding is increased from \$16,700,000 to \$27,950,000 to help in financing the foreign exchange and local currency costs of the project. A new total of up to \$29,950,000 of A.I.D. appropriated funds is approved for use in this project in anticipation that regional bureaus and missions may contribute up to \$2 million, under various project authorities, to supplement the funds provided by the S&T Bureau and ensure an adequate level of project activity to meet their needs.

3. Source and Origin of Goods and Services

a. Each developing country where training or other assistance takes place under this project shall be deemed to be a cooperating country for the purpose of permitting local cost financing.

b. Goods and services, except for ocean shipping, financed by A.I.D. under the project shall have their source and origin in the cooperating country or in the United States except as A.I.D. may otherwise agree in writing. Ocean shipping financed by A.I.D. under the project shall, except as A.I.D. may otherwise agree in writing, be financed only on flag vessels of the United States.

B. The authorization cited above remains in force except as herein amended.

N. C. Brady Senior Assistant Administrator Bureau for Science and Technology Date:

Clearances: S&T/AGR/AP:BLPolla	ck	BEP	Date:	5/20/54
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S&T/AGR: JARoyer	ap	h	Date:	9/20/84
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	ORANDUM FOR THE SENIOR ASSISTANT ADMINISTRATOR FOR
SCIENCE AN	D TECHNOLOGY
THRU:	S&T/FA, J. S. Robins
FROM:	S&T/FA, J. S. Robins Stol S&T/AGR, Anson R. Bertrand Common Positional

SUBJECT: Bean/Cowpea Collaborative Research Support Program (CRSP) Project Number 931-1310.

<u>Problem</u>: Your approval is requested for a three-year extension and increased funding authorization of the subject project.

Background: The Bean/Cowpea CRSP Grant was approved September 30, 1980 for a five-year period, with Michigan State University (MSU) as the Management Entity (ME) for the project. The program now involves nine U.S. institutions working in 13 host countries on 18 individual projects. Program details are provided in Attachment B. Close collaborative relationships between U.S. and LDC organizations have been developed to attack constraints to increased production and utilization of beans and cowpeas.

MSU has submitted a request for a three-year extension through September 30, 1988 (Attachment C). The proposed budget (Attachment F) for the extension is \$11.25 million, requiring an increase in the authorized life of project funding from \$16.7 million to \$27.95 million.

<u>Review and Evaluation</u>: The Board of Directors (BOD) and The External Review Panel (ERP) have developed a comprehensive and objective system for evaluating and rating the country activities in this CRSP. Attachment F provides a brief explanation of the system and a table summarizing the results of the ERP's 1983 review. The table shows that of the 18 country projects, 9 were recommended for continuation with no changes, 5 were recommended for continuation with suggestion for changes and 4 were recommended for continuation only if specified changes were made.

The plans for dealing with the four "troubled" projects was a major subject of discussion at the May 1984 Agricultural Sector Council (ASC), JCARD, and BIFAD review of the CRSP and the proposed three-year extension. The M.E. reported that responsible parties in all four projects had been cooperating in making the specified changes but that each of the projects is in a probationary status for the next year. In view of the CRSP's overall progress and record of accomplishments, (described in Attachment B) the ASC/JCARD and BIFAD recommended approval of the three-year extension based on the plans for years 6, 7, and 8 presented by the M.E. They stipulated, however, that the "troubled" projects should not be automatically extended but should be carefully reviewed by the ERP before the end of the fifth year. The planned funding for any which had not made satisfactory progress by that time should be reprogrammed for other priority research areas.

The ASC/JCARD and BIFAD approvals are attached. (Attachments D and E).

<u>Funding</u>: The funding requested is consistent with the guidelines given to the CRSP in November 1982. S&T/AGR plans to budget funds to support the Bean/Cowpea CRSP core activities at a level of up to \$3.75 million per year from FY 1986 to FY 1988. S&T/AGR anticipates missions and regional bureaus will contribute or "buy-in" for additional country activities within the overall scope of this project. These additional funds will be separately authorized under various mission or regional bureau projects as required. We anticipate these additional buy-ins to be \$2 million which will require an increase of approval ceiling from \$27.95 to \$29.95 million.

<u>Recommendation</u>: That you approve the attached project authorization amendment for a three-year extension of the Bean and Cowpea CRSP, an increase in authorized S&T Life of Project Funds from \$16.7 to \$27.95 million and an approved ceiling of \$29.95 million to accomodate up to \$2 million of Regional Bureau or Mission buy-ins.

Approved:

Disapproved:

Date:

Attachment:

- A. Project Authorization and Data Sheet
- B. Program Summary
- C. Three-Year Extension Request from MSU
- D. JCARD/BIFAD Statement
- E. BIFAD Statement
- F. Bean and Cowpea Program Rating System
- G. Budgets FY 81 thru FY 88
- H. Future Plans
- I. Logical Framework
- J. Minutes of the Agricultural Sector Meeting, August 7, 1984

Cluarances: S&T/AGR/AP:BLPollack\_ 1.1 Date: (Oth S&T/AGR: JMYohe S&T/AGR: JARoyer Date: Date: 9 Date: S&T/AGR: ARBertrand 218 S&T/PO:GEaton Kam Date: 70 4

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#### FROGRAM SUMMARY

#### 1. INTRODUCTION

The Bean/Cowpea Collaborative Research Support Program (CRSP) is a program of coordinated projects in Africa and Latin America addressing hunger and malnutrition through research on the production and utilization of beans (<u>Phaseolus vulgaris</u>) and cowpeas (<u>Viona unguiculata</u>). The CRSP reflects the Title XII "Famine Prevention and Freedom from Hunger" mission of the US Foreign Assistance Act under which the program is funded. Contributing to the alleviation of hunger and malnutrition in developing countries by improving the availability and utilization of beans and cowpeas, the CRSP also makes a significant contribution to agriculture in the US. The research findings and identified biological resources hold potential for solving or reducing important agricultural constraints to the availability of beans and cowpeas in all legume-producing nations.

As stated in the grant which established the Bean/Cowpea CRSP,

"This program is a long-term effort designed to bring together the research capabilities of participating universities, collaborating Title XII institutions including USDA and other federal research agencies, appropriate LDC institutions and international centers into a comprehensive and coordinated effort in research and training to generate and apply knowledge that can assist in alleviating principal constraints to improved production, marketing and utilization of beans and cowpeas in LDCs. It is based on the assumption that there are large areas of overlap between U.S. and developing country needs for research, marketing and utilization of these two crops. Substantial mutual advantages are expected to result from joint research program efforts which cut across national boundaries and different levels of agricultural development."

The Bean/Cowpea CRSP is one of seven CRSPs which through interactions among the partners (AID-US Institutions-Host Country [HC] Institutions) has evolved a research and training effort to address issues of food availability in designated areas throughout the world. Although the seven have many basic characteristics in common, each CRSP has a configuration which is somewhat unique. These differences emerged from the needs of the respective partners, the research requirements of the commodity and the stage of Title XII development at the time the particular program was begun.

As the third such program to be developed, following the Small Ruminant CRSP and the Sorgnum/Millet CRSP, the Bean/Cowpea CRSP was the beneficiary of two especially critical lessons. First, it was determined that the Host Countries to participate should be identified early in the planning process. This facilitated HC involvement in planning the specific research, their acceptance of a role in that research and their readiness to begin work once the program was implemented. Secondly, to avoid a great deal of unproductive transition time, it was determined that the Planning Entity should be allowed to be a serious candidate for Management Entity when the CRSP was implemented. These two changes from the original guidelines for CRSP development nave been major factors in the important achievements of the Bean/Cowpea CRSP despite its short time in existence.

Even though at program initiation all prospective participants were identified, the first year was taken up with acquiring the final approvals (which could not precede actual funding). Official government and institutional signatures on the

required accuments in the US and thirteen participating HCs had to be accuired. The task for the second year was getting the projects off the ground--funds could begin to flow, identified professionals could request released time, students could apply for training and, if admitted right away, could be sent off to begin that training, approvals for equipment purchases could be requested from AID and the lucky few receiving the approvals promptly could order the first equipment before the end of the year. Thus, for the most part, it was not until late in the third year that preliminary research was enough under way to suggest tentative initial findings. There are striking exceptions where important and significant results have already peen obtained. These are frequently the consequences of the Program's being able to capitalize on previous long-term thinking, associations and background research which fitted the precise needs of the CRSP and required only its quided human and financial resources to push the work over the top. An excellent example of this is the first work reported in the CRSP Vanouard series by a senior US researcher, his former student who is presently a research leader in the participating HC, and a current graduate student working with the team.

#### 2. PROGRAM GOAL

By making available to the international agricultural research and development system a new avenue to the US agricultural research network, the Bean/Cowpea CRSP is organized to make important contributions to the resolution of difficult and persistent problems associated with bean and cowpea production and utilization.

The grant document puts forward the following goal of the Bean/Cowpea CRSP:

"The goal to which this program is to make a significant contribution is improvement in living conditions of small farm producers in LDCs and increased availability of low cost nutritious foodstuffs in the marketplace for the rural and urban poor in LDCs."

#### 3. PROGRAM PURPOSE

The grant document further identifies the following purpose of the CRSP:

"The purpose of this program is to organize and mobilize financial and human resources necessary for mounting a major multi-institutional U.S.-LDC collaborative effort in research and training. This effort is expected to provide the knowledge base necessary to achieve significant advances in alleviating the principal constraints to improved production, marketing and utilization of beans and cowpeas in LDCs. A subpurpose is to improve the capabilities of appropriate LDC institutions to generate, adopt and apply improved knowledge to local conditions."

#### 4. PLANNING PROCESS

During planning, a thorough identification was made of HC and US problem areas, interests and capabilities. The planning group met with HC nationals engaged in legume research at national and international conferences and workshops. International groups were invited to the US to further refine the effort. Extensively researched and honed to the needs of the HC and the international

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	EGLIGUITUTEL COMMUN PROCESS. Below is planning process.	a ch	THE CHS RESERRED PROJECTS EVELVED TROM THIS COMPRENENSIVE renelogy of important events in the Bean/Cowpea CRSP
Y~	Chronology of the B	lean/	Cowpea CRSP Planning Process
	July, 1978	BIF	AD authorized planning for Bean/Cowpea ORSP.
	October, 1978		ter to Title XII institutions requesting indications of ifest interest43 responded.
		•	
	-May, 1979	XII	t-finding team visits to South America, Caribbean and Mexico, t Africa, and East Africateam members from various Title institutions. Collected information on constraints. Met ential collaborators.
	May, 1979		n/Cowpea proposals received from interested institutions conding to RFP. Proposals received from 77 persons resenting 25 institutions.
	• •• •••	- /r	
	June, 1979	Tect	ernational Peer Review Panel Meeting to evaluate proposals eived. Sixteen panel experts represented CIAT, IITA, IICA US senior legume scientists.
	October, 1979 .	CONS	t Country Advisory Group Meeting, MSU. Prioritized straints relative to country needs. Subsequently matched ntry needs with US evaluated proposal topics.
	November, 1979		ing with JRC for approvals of Title XII institutions and laborating research scientists aproad.
	MarchApril, 1980	Meet a)	fings on-site of potential US and HC collaborators familiarizing US collaborators with the specific resources, problems and culture of the country in which work to be conducted; and
	· · · · · · · · · · · · · · · · · · ·	ь)	providing an opportunity for scientists of the US and the HCs to get to know each others' interests, capabilities and approaches to problam solving, in preparation for:
		c)	developing specific research designs and budgets to address the problems identified.

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- April, 1980 JRC meeting--approval of 10 institutions to participate in the ORSP.
- April, 1980 CRSP Development Meeting, Chicago O'Hare, with the 10 institutions approved for CRSP involvement. Brief report of the collaborators' meetings, the Global Plan, decisions on the CRSP Management Entity and the initial five institutions to be members of the first Board of Directors.
- June, 1980 Presentation of Bean/Cowpea Global Plan and proposal to implement the CRSP to JRC and AID (one institution subsequently omitted). October, 1980 Bean and Cowpea Grant approved,

#### 5. PROGRAM CONSTRAINTS

The constraints to the availability of beans and cowpeas, as identified during the planning process, became the basis for the development of the global or master plan. These constraints as presented in that plan defined the major issues which the project research was designed to address. The constraints are as follows:

- 1. Limitations due to pests and diseases,
- 2. Plant response limitations,
- 3. Limitations of the physical environment,
- 4. Farming practices limitations,
- 5. Storage problems,
- 6. Production-consumption economics,
- 7. Nutrition, food preparation and health,
- 8. Sociocultural factors, and
- 9. Education, training and research capability.

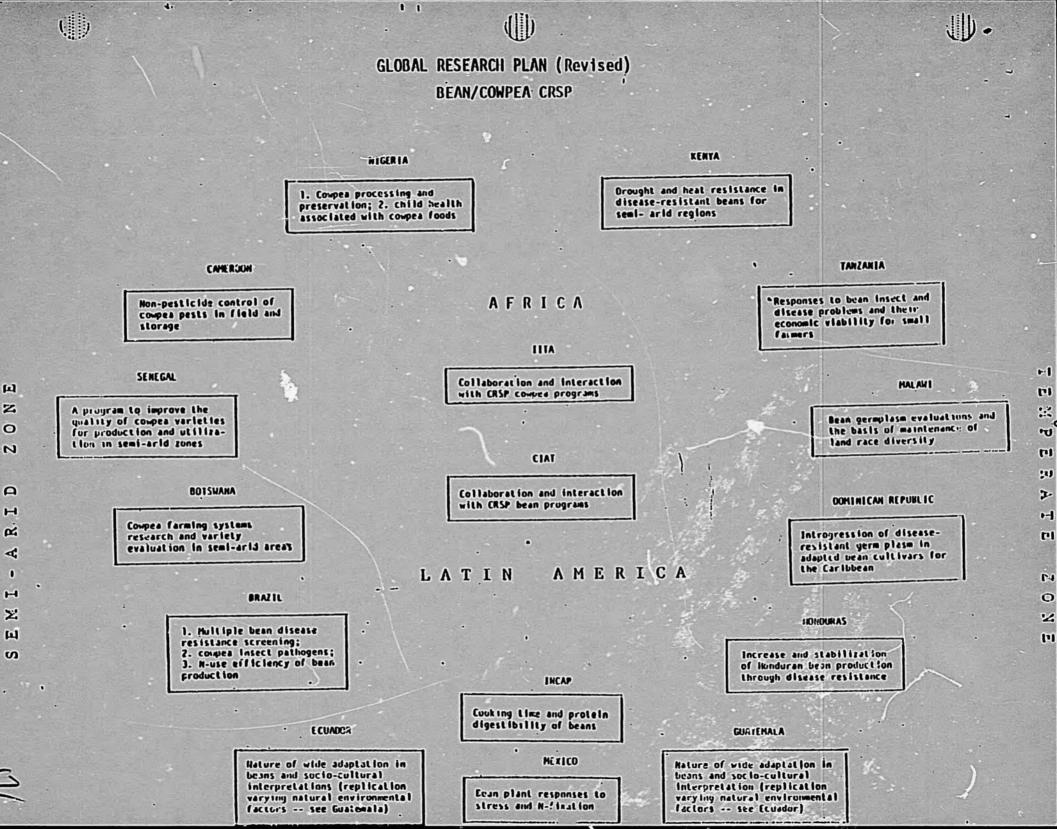
# 6. EVOLUTION OF THE GLOBAL PLAN

The Global Plan for the Bean/Cowpea CRSP was developed by the Planning Entity based on the identified constraints. Implemented during the first year of this program, the plan presented a configuration of nine US lead institutions providing leadership in eighteen projects all of which are presently in existence. Early on, just before the presentation and approval of the initial Global Plan, a tenth lead institution (Mississippi) withdrew from involvement. After plan approval, there were two other revisions made in the plan--Mexico was substituted for CIAT (although CIAT remains involved) and Botswana was substituted for Guyana. Nonetheless, the worldwide research needs for beans and cowpeas which were identified as needing to be included in the initial efforts of the CRSP are all being addressed.

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At the time that the plan was evolving, much about the CRSP mode was new and uncharted. Guidelines for program implementation had to be developed which would reinforce the mission and keep the program on track. It was determined that the Bean/Cowpea CRSP projects were to

- 1. Be individual but structurally integrated in order to make the maximum contribution to the availability of beans and cowpeas in areas where they are important to human diet;
- Emphasize multidisciplinary research integrating production and non-production issues;
- 3. Focus on research in traditional settings;
- 4. Build strong and collegial professional relationships among the HC and US researchers in each project;
- 5. Make financial resources available for both HC and US research activity;
- 6. Contribute to the strengthening of HC institutions through the enhancement of facilities and equipment needed to support that research;
- Contribute to the strengthening of HC institutions through a significant level of graduate and undergraduate study, short-term courses, conferences and workshops;
- 8. Pay specific attention to the roles and participation of women;
- 9. Be alert to mechanisms for information dissemination; and
- 10. Provide an opportunity for private sector participation in research activity and in the dissemination of products.



# 7. MANAGEMENT ORGANIZATION

Management Entity (ME)--Michigan State University

Total program and fiscal responsibility for the performance of the CRSP rests with the Management Entity. The administrative work of the CRSP, organized and funded by the Management Entity, is achieved through the participation of groups as follows:

#### Management Office (MD)

This is the operational office of the Management Entity for the Bean/Cowpea CRSP. It is located on the Michigan State University campus but maintains constant communications with the project personnel in the US and HCs as well as the management support groups listed below. The MO is organized with the following staff positions.

Director	100%
Deputy Director	50%
WID/Program Specialist (50%/50%)	100%
Administrative Officer	100%
Executive Secretary	100%
Secretary-Receptionist	100%

Despite almost 100 percent turnover in staff within the last 1-1/2 years, the Management Office has continued to (1) monitor project activity in US and HCs as needed, (2) provide support and guidance to all projects, (3) reinforce attention to the WID perspective, (4) reinforce communication among the various participants of the CRSP, (5) encourage better project integration in the lead and HC institutions, (6) provide staff support to the BOD, TC and ERP, (7) carry oùt the policies and recommendations of these groups, (8) maintain communication flow between the CRSP and AID/EIFAD as well as (9) increase the published output and (10) represent the CRSP in wider national and international settings. EXTERNEL REVIEW Panel (ERF)

members

Eminent scientists from an array of disciplines with no previous connection to the CRSP are appointed by BIFAD to annually review and evaluate the individual CRSP projects and the Program as a whole. The ERP has completed two reviews of the CRSP. A report of their findings each year presents the results of US and HC site visits and project progress report reviews.

#### Institutional Representatives (IRs) 10 members

There is one IR from each of the nine lead institutions plus an additional one from the University of California-Riverside/Davis system. There are no regularly scheduled meetings but frequent mailings from the MO keep them informed of overall CRSP activity. They are the senior link between the CRSP project personnel at their institution and the administration there. Letters from the IRs indicating the role and contributions of the projects with their institutions are included in Section II.

#### Boaro of Directors

#### 5 members

Elected from among the nine lead institutions' Institutional Representatives, this is the policy-making group of the CRSP. One member is a standing member representing the Management Entity. In addition to these five members, the Board invites consulting members to its meetings from among the HC administrators. An average of three meetings are held per year staffed by the Management Office. Technical Committee (TC) 7 members

Composed of researchers associated with the CRSP, this group is responsible for internal project review and research coordination. Members and their alternates are appointed by the Board. It is made up of:

Researchers from CRSP US institutions	5
Researchers from CRSP1HC institutions	1
Representatives from IARCs (CIAT or IITA)	1

An average of five meetings are held per year staffed by the Management Office. Some of the major activities of this group have been (1) monitoring progress of projects, (2) reviewing requested changes in projects, (3) responding to ERP recommencations, (4) identifying new areas for collaboration and cooperation, (5) betermining most efficient and effective methods for disseminating ERSP information and (6) making recommencations to the Ecaro regarding policies needed for the successful operation of the projects.

# 0. WUNTER RESEARCH PREJECT ORGANIZATION

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The research of the CRSP is organized in sets of HC and US teams collaborating in addressing one or more constraints to bean or cowpea production and utilization. No projects are free standing in the US without HC alliances. All evolved from the two-year planning effort.

Total projects Africa Latin America	8 10	18
Host Countries Africa Latin America	7 6	13
Bean projects Africa Latin America	3 9	12

Cowpea projects Africa. Latin America	5 1	6
US lead institutions US institutions contributing resource scientists	14	9
Cooperating International Research Centers		2

# 9. COUNTRY RESEARCH PROJECT PERSONNEL

Notwithstanding coups or serious coup attempts in five of the CRSP HCs, food riots and other forms of political unrest, the projects continue their steady forward progress. This noteworthy achievement is undoubtedly the product of convivial professional relationships formed among the heterogeneous group of competent people whose human natures seem to demand that, in the midst of confusion and havoc, they seek the path of greatest dedication to the application of science in solving social problems.

#### PROFESSIONAL RESEARCHERS PARTICIPATING IN CRSP

	Males	Females	Total
HC .	90	11	101
US Total	<u>53</u> 143	$\frac{16}{27}$	<u>69</u> 170

### US RESEARCHERS IN RESIDENCE IN HCS FOR 6 MONTHS OR LONGER

6 males 2 females 8 total

5

The organization of project research teams has developed based on the needs and existing resources of the projects and the professional relationships established between the HC and US PIs. Three successful models have emerged:

- 1. No US scientists are stationed in the HCs but active communication, professional cooperation and collegial relationships are maintained. This model is especially appropriate where the HC, similar to the US, maintains a critical mass of scientists including effective senior scientists. Example: Senegal.
- Junior scientists (including post-doctorates or advanced Ph.D. students) are stationed in HCs, under close and frequent supervision of senior US PIs, to work with national programs. This model is especially successful where there is an effective HC team but less than a critical mass in the identified research area. Example: Brazil.
- 3. Senior US scientists are stationed in HCs to work with national programs. This model is especially effective where the HC has very limited research personnel and the US PI acts as a stimulus to building a critical mass. Example: Botswana.

These models of collaboration are only three among many possibilities, but they evolved from surveys of existing needs and resources and candid negotiations among the principals during the planning and early implementation phases. Because the structure of model #1 is the most equitable and mutually rewarding for the long term, those projects for whom models #2 or #3 are currently the most appropriate are motivated to focus attention on a comprehensive plan to achieve that level of operation.

To reinforce and maintain professional relationships within and among the US/HC teams, project personnel consult with one another frequently, visiting one another's programs and assessing the progress of laboratory and field research strategies jointly developed. The international travel sustained by the projects through the first three years of the CRSP is presented below.

### BEAN/COWPEA CRSP INTERNATIONAL TRAVEL THROUGH 9-30-83 (Person Trips)

Botswana/CSU201Brazil/BTI1220Brazil/Bliss710Brazil/Hagedorn200Cameroon/UGA631Dom. Republic/UNE1402Dom. Republic/UPR533Ecuador/COR2012Guatemala/COR1521	Project	To Collaborating Country	Prof. Mtgin Another Country	TrainingIARCs
Honouras/UPR830INCAP/WSU810Kenya/UCD700Malawi/MSU1401Maxico/MSU400Nigeria/UGA4142Nigeria/MSU340Senegal/UCR910Tanzania/WSU952Total Project Trips14940.015.0Average US/HC Trips37.3Per Project Per Year52	Brazil/BTI Brazil/Bliss Brazil/Hagedorn Cameroon/UGA Dom. Republic/UNE Dom. Republic/UPR Ecuador/CDR Guatemala/COR Honduras/UPR INCAP/WSU Kenya/UCD Malawi/MSU Maxico/MSU Nigeria/UGA Nigeria/UGA Nigeria/UGA Nigeria/UCR Tanzania/WSU Total Project Trips Average US/HC Trips	$     \begin{array}{r}       7 \\       2 \\       6 \\       14 \\       5 \\       20 \\       15 \\       8 \\       8 \\       7 \\       14 \\       4 \\       4 \\       4 \\       3 \\       9 \\       9 \\       9 \\       9 \\       9 \\       9 \\       9 \\       149 \\       19 \\       3   \end{array} $	14 4 1 5	1 0 0 1 2 3 2 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 2 3 2 1 0 0 0 0 1 2 3 2 1 0 0 0 1 2 3 2 1 0 0 0 1 2 3 2 1 0 0 0 1 2 3 2 1 0 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0

10. PROGRAM ACHIEVEMENTS

#### Research

In the less than three years of actual operations, CRSP researchers are already reporting significant contributions to CRSP goals. For example,

a. Research illuminating the interaction of altitude (temperature) and latitude (oaylength) now suggests it is possible to identify each cultivar's optimal environment (see Vanguaro Vol. 1, No. 1 in Section III).

- b. Large collections of bean and cowpea germ plasm have been made throughout Africa and Latin America.
- c. Large numbers of local and exotic bean and cowpea lines have been screened for Pest resistance Disease resistance Heat resistance Drought resistance
  - d. Breeding programs were initiated incorporating these materials with those of the US collections and the IARCs--these materials also shared with national and international programs. Testing has begun at many sites offering an array of altitude/latitude variations.
  - e. Che national germ plasm guide, growing out of the extensive germ plasm survey and research, has been prepared for publication.
  - f. Extremely early cowpeas were developed producing acceptable yield under the recent severe African drought and heat conditions (see <u>Research Highlights</u> Vol. 1, No. 1 in Section III).
  - g. Bean-tepary crosses have progressed to field trials which have identified crought resistance (see Research Highlights Vol. 1, No. 6 [in process]).
  - h. Quick, inexpensive and technically feasible methodology was developed for assessment of viral contamination of lines to be transported across national boundaries (see Research Highlights Vol. 1, No. 5 in Section III).
  - i. Five new multiple disease resistant bean genotypes were released and made available to breeding programs (see <u>Research Highlights</u> Vol. 1, No. 2 in Section III).
  - j. Easic research on the genetics of inheritance of resistance proceeding.
  - k. Research on variations among strains of plant pathogens is generating information critical to disease control.
  - 1. Interactions were identified among bacterial isolates, their concentrations and nost plant genotypes as important components in cisease control.
- Dver one hundred isolates of insect pathogens were collected for research on biological insect control (see <u>Research Highlights</u> Vol. 1, No. 3).
- n. Insect control research on identified cowpea pests' life-cycle and reproductive habits is generating important preliminary findings.
- Experimental results with superior bean selections and superior isolates of Rhizopium phaseoli is suggesting greater than usual levels of nitrogen fixing potential adequate for commercial level bean production on small farms using tracitional cropping systems.
- p. Seconcary research is generating important information on the role of women in food production (see <u>Women-in-Agriculture Guide--Cameroon</u> in Section III).

- q. Socio-cultural and socio-economic studies are generating important information which will contribute to decision making in preeding programs.
- Methodology is being developed for village-level production of cowpea meal acceptable for preparation of traditional focos (see <u>Research Highlights</u> Vol. 1, No. 4 in Section III).
- s. An extensive canvassing of the variety of methods used for evaluation of bean quality has been done and a report of these methods is being organized for use by the scientific community (see Monographs Vol. 1, No. 2 [in process]).
- t Extensive secondary research completed on the eating of legume leaves and their role in traditional diets (see Monographs Vol. 1, No. 1 in Section III).
- u. Appropriate farming implements were ceveloped (jointly with other groups) suitable for an identified Host Country farming system and environment.
- v. Collaboration achieves with other international agricultural programs funces by AID and other bilateral donors.
- w. CRSP-sponsored, organized and run workshops and short courses (i.e., BNF, biological insect control, MSTAT) have been contributing to the professional programs of CRSP students and the continuing education of CRSP professionals.

Details of research achievements--1983 Annual Report: Technical Summary, Section III.

#### Training

From the beginning the CRSP has made an on-going effort to emphasize the training of US and HC scientists prepared to work together in the international agriculture context. This effort is the result of a CRSP philosophy that research capacity must be strengthened to build a long-term attack on constraints to food availability throughout the world. While not emphasized to the same extent, as the training of HC nationals, US students are also supported under the CRSP. These students, often in exchange arrangements to HCs, provide good counterparts to HC students studying in the US. Frequently important potentially long-term professional relationships evolve (some of the US and HC PIs were students together years ago at a Title XII institution). In addition, US students are provided invaluable learning experiences that will render them more knowledgeable future professors of US and HC students studying in the US in subsequent years. Thus, all is cone with an eye toward what will exist after a CRSP project comes to an end.

Strengthening HC institutions through short-term and long-term training in informal and formal settings is encouraged by each of the CRSP's projects. Especially encouraged is graduate-level education to help build a critical mass of professional researchers in the Host Countries participating in this CRSP.

As a part of that effort, projects maintain a strong concern for the educational advancement of women and, through the support of their Host Country colleagues, are gradually being successful. The potential for human resource development is especially significant in this program because of continuing efforts to reinforce gender participation as well as the participation of diverse national/ethnic groups. The following charts and diagrams show CRSP training activity over the first three years.

		HOST		۲Y		UNIT	ED STA	ITES	TO		DEVELO INTRIES		TOTAL
		ree*		gree**				egree		ree		egrec	
	M	F	M	F	M	F	M	F	M	F	M	F	]
BOTSWANA	0	1	2	0	D	2	0	1	· D	0	0	D	6
BRAZIL/ROBERTS	0	D	14	24	0	1	1	2	0	0	0	0	42
BRAZIL/BLISS	1	0	1	0	0	0	0	0	0	0	0	0	2
BRAZIL/HAGEDORN	0	0	0	0	0	0	D	0	D	0	0	0	0
CAMEROON	0	0	0	0	D	<del>.</del> 0	Ō	0	0	٥	1	0	1
DOM. REP./COYNE	2	0	2	0	1	1	0	0	2.	0	0	0	8
DOM. REP./LOPEZ-ROSA	3	0	2	1	1	0	4	2	0	0	0	0	13
ECUADOR	0	0	0	1	0	0	0	1	0	0	0	0	2
GUATEMALA	3	D	1	0	2	0	1	0	11	0	2	D	10
HONDURAS	1	D	2	0	D	0	0	0	0	ò	0	0	3
INCAP	5	6	6	2	·· ·5	5	0	0	2	D	1	0	32
KENYA	1	1	1	0	1	0	D	2	۵·	• 0	0	0	6
MALAWI	2	0	0	0	1	1	0	0	0	0	0	0	4
MEXICO	1	:0	1	0	0	0	0	0	0	1	D	1	4
NIGERIA/MARKAKIS	0	1	0	0	0	0	0	0	0	0	0	0	1
NIGERIA/MCWATTERS	0	0	0	0	2	1	0	0	0	1	Û	0	4
SENEGAL	2	0	1	D	1	2	0	0	6	0	4	0	16
TANZANIA	2	1	4	3	0	1	D	0	1	0	0	0	12
Total	23	10	37	31	14	14	6	8	12	2	8	1	166**

### 1983 BEAN/COWPEA CRSP TRAINING COMPONENT

\* The majority of these students are enrolled in Master's or Ph.D. programs in US institutions. In a few cases individuals are completing Bachelor's degrees prior to enrollment in graduate programs.

- \*\* Included here are programs of from a few days to nearly a year's duration attended by students and technicians associated with the CRSP.
- \*\*\* It should be noted that some degree students have also participated in non-degree training and in these cases have been counted in each category. While the total number of traineeships is 166, the actual number of individuals is 149.

# 11, LINKAGES WITH INTERNATIONAL AGRICULTURAL RESEARCH CENTERS (IARCS)

From the beginning, when the heads of the respective legume programs at CIAT and IITA were invited to participate in CRSP planning (i.e., Peter Graham and subsequently Aart Van Schoonhoven from CIAT; Peter Goldsworthy and subsequently Shiv Singh from IITA), CRSP and IARC scientists have maintained collegial professional relationships which in many cases predated the birth of the CRSP. These relationships have, in most cases, grown to the mutual advantage of both groups. Examples of the relationships are as follows:

- 1. The heads of the legume programs of the cooperating IARCs alternate on the Technical Committee (Shiv Singh of IITA and Aart Van Schoonhoven of CIAT).
- 2. IARC scientists have taken sabbatical leaves to study with senior CRSP scientists and CRSP scientists have spent their sabbaticals at the IARCs (i.e., CIAT's Steve Temple to Wisconsin; IITA's Earl Watt to Michigan State University; CRSP's Matt Silbernagel to CIAT).
- 3. CRSP graduate students (i.e., Paul Gniffke from Cornell) and trainees (i.e., Betty Gondwe from Tanzania) trained and conducted research at IARCs. The CRSP has sponsored several such trainees. IARC-trained graduates (i.e., Moffi Ta'Ama) have found positions in CRSP projects.
- 4. IARC plant material is incluoed among lines in CRSP trials (i.e., Dominican Republic) and among the material evaluated in the CRSP food science research (i.e., INCAP).
- 5. Conversely, CRSP material has been used by CIAT and additional lines have been requested and are being furnished to IARCs by CRSP teams (i.e., Kenya/University of California tepary crosses).
- 6. CRSP and CIAT cooperate in agronomic and varietal on-farm research such as presently being planned in Honouras.
- 7. The CRSP and CIAT have worked together sponsoring important joint professional meetings such as the Rust workshop held in 1983 in the Dominican Republic. At this meeting, international leaders in rust research reached agreement on new evaluation criteria and labels to be used worlowide as the standard in rust evaluation trials.
- 8. The CRSP and IITA are co-sponsoring a worldwide cowpea conference in November of 1984 in Ibadan, Nigeria.

These cooperative efforts evolved as mutual advantage was perceived by the respective units. The MOUs between the CRSP and the IARCs demonstrate the extent to which both groups are concerned that duplication is held to a minimum, complementarity is enhanced and our respective resources are used as efficiently and appropriately as possible to increase the availability of beans and cowpeas in the food deficient areas of the world.

#### 12. CONCLUSION

The CRSP has concentrated on maintaining a well-integrated research and training program. It has attempted to strike a balance between the research needs of legume science for the common good and the more narrow special needs of participating US and HC research programs. A high level of communication among the participants and especially across the disciplines supports this balance (i.e., researchers rotating through terms on the Technical Committee, multi-disciplinary participation in ORSP meetings and workshops). We are now beginning to see project leaders turn to one another for assistance in specified areas. Sometimes projects help train new personnel for one another. For example, a HC food scientist, beginning food quality assessments of the lines being developed by the CRSP disease resistance project in his country, visited with the food science US and HC team in another country to learn of the major ideas and findings emanating from their work. Another CRSP project on drought and heat tolerance is negotiating with a disease resistance project to have the promising lines for drought and heat screened by them for disease resistance. A similar service function to other CRSP projects is being performed by one of the projects concentrating on biological nitrogen fixation.

Slowly the <u>real value</u> of the wealth of resources represented by an organization of this size and complexity is making itself understood. While overall management keeps the few persons responsible for critical points in the operation, such as the AID program officer, the BIFAD liaison person, and the Management Office, extremely busy, all parts together suggest the energy and exciting potential in the program as a whole. The constraints identified are complex and stubborn and long-term research is expected to be required if they are to be adequately addressed. If there is any hope that this process can be accelerated, it will be through assembling an array of competent, dedicated persons who are heterogeneous in their professional and cultural backgrounds. Unencumbered by gender discrimination and national/ethnic neglect, this is best described as intellectual germ plasm. And indeed, it is the true promise of the Bean/Cowpea CRSP.

# MICHIGAN STATE UNIVERSITY

BEAN/COWPEA CRSP MANAGEMENT OFFICE 200 CENTER FOR INTERNATIONAL PROGRAMS (\$17) 355-4693 TELEX: \$10 251 0737 MSU INT PRO ELSG

May 1, 1984

Dr. Anson Bertrand, Director Office of Agriculture Bureau of Science and Technology US International Development Cooperation Agency Agency for International Development Washington, DC 20523

Dear Dr. Bertrand:

On behalf of Michigan State University, management entity for the Bean/Cowpea CRSP, presently funded under Grant No. AID/DSAN-XII-G-0261, I wish to formally request a three-year extension with new funds to support continuation of the Program. Documentation supporting this request as designated in <u>Preliminary</u>. <u>Guidelines for Triennial Review and Three-Year Extension</u> is submitted under separate cover. This documentation will include a fiscal and programmatic review of CRSP activity with projections for the final years of the original grant and the requested extension years. We would be more than happy to provide on request any additional information which may be helpful.

EAST LANSING + MICHIGAN + 48524

Sincerely,

Sand

Pat Barnes McCopnell, Bh.D Director

PBM: skb: 5695B

cc: Dr. B. L. Pollack, Program Manager Dr. F. W. Johnson, BIFAD Liaison Dr. L. L. Boyd, Chair, Board of Directors Dr. M. J. Silbernagel, Chair, Technical Committee Dr. J. H. Anderson, Institutional Representative, MSU

#### ATTACHMENT D.

JOINT REVIEW OF THE JCARD PANEL ON CRSPs AND THE AGRICULTURE SECTOR COUNCIL ON CEREAL GRAINS AND GRAIN LEGUMES

Review Date: May 22, 1984

Office of Agriculture 1. Project Office 931-1310 Project Number: CRSP - Beans/Cowpeas Project Title: Michigan State University Proposed Contractor: (Management Entity) Proposed Project Period: Three-year extension from: October 1, 1985 to September 30, 1988 Proposed Budget: \$3.75 million annually for three years. Total cost for three-year period, \$11.25 million.

2. The members of this Joint Committee and their findings are specified below:

Sector Council Subcommittee

Office	Name	Signature	Endorsed	Not Endorsed
AFR/DR:	C. Wiggin	4011	/	. <u></u>
ASIA/TR/ARD:	T.L. Wilson	Thu	/	
LAC/DR:	E. Rupprecht	FOR		. <u></u>
NE/TECH: S&T/AGR/AP: JCARD Panel on	L. Voth R. Jackson CRSP:	409		
NE/TECH:	W. Furtick	ultos		
S&T/AGR:	J. Yohe	Blug	<u> </u>	
U. of Arizona:	P. Upchurch	R. P.U	<u></u>	<del>، ــــــــــــــــــــــــــــــــــــ</del>
3. It is the d	ecision of this Comm	nittee that this pr	oject be:	

3. It is the decision of this Committee that this project be:

Endorsed

\_ Not Endorsed

Signature:

Anson R. Bertrand Chairman, Subcommittee Agriculture Sector Council on Cereal Grains and Grain Legumes

Signature:

Rodney Foil Chairman, JCARD Panel on CRSP

#### AGENCY FOR INTERNATIONAL DEVELOPMENT WASHINGTON. D.C. 20523

MEMORANDUM

July 23, 1984

TO: See Distribution

FROM: S&T/AGR, Anson R. Bertrand

SUBJECT: Agriculture Sector Council Meeting - Tuesday, August 7, 1984

Attached is the result of the joint review of the Bean/Cowpea CRSP by the JCARD panel on CRSPs and the Agriculture Sector Council on Cereal and Leguminous Grain. Also attached is the contractor's Executive Summary of the 1983 Annual Report covering the first three years activities, their request for a three-year extension and other publications relevant to the progress of the CRSP.

The three year project extension request will be an item on the agenda of the Agriculture Sector Council meeting on Tuesday, August 7, 1984 at 10:30 a.m.

Distribution:

LAC/DR/RD, Albert L. Brown NE/TECH/AD, Wilbur Thomas ASIA/TR/ARD, Charles H. Antholt AFR/DR/ARD, David Schaer BIFAD, John G. Stovall



Agency for International Development Washington, D.C. 20323

July30, 1984

MEMORANDUM

TO : S&T/FA, John S. Robins

FROM : BIFAD/S, Priscilla A. Boughton, Acting

SUBJECT : JCARD/BIFAD Action on Proposed Extension of the Bean/Cowpea CRSP

The purpose of this memo is to formally transmit BIFAD's action on the proposed extension of the Bean/Cowpea CRSP. The Board, acting on a recommendation from JCARD, endorsed by resolution the extension of the CRSP for three years. Earlier, the CRSP Panel of the Joint Committee on Agricultural Research and Development met with a subcommittee of the Agriculture Sector Council and reviewed the Management Entity's (Michigan State University) proposal for extension of the Bean/Cowpea CRSP (B/C CRSP). This review resulted in the joint recommendation that the B/C CRSP be extended for three years.

The Chairman of JCARD's CRSP Panel, Rodney Foil, reported on the Panel's recommendation at the meeting of the Executive Committee of JCARD on July 11, 1984. The Executive Committee, acting on behalf of JCARD, endorsed the recommendations of the Panel by a formal resolution that the Bean/Cowpea CRSP be extended for three years, and that the recommendations of the External Review Panel for correction of deficiencies be implemented. These are cited below and are described in Attachments A, B, C, D and E.

(1) Project in Brazil - University of Wisconsin (P.I. Hagedorn): Techniques for Development of Multiple Disease Resistance in Phaseolus Vulgaris L. (Attachment A).

(2) Cameroon - University of Georgia: Pest Managment Strategies for Optimizing Cowpea Yields in Cameroon (Attachment B).

(3) Honduras - University of Puerto Rico (P.I. Lopez - Rosa): Improvement of Bean Production in Honduras through Building for Multiple Disease Resistance (Attachment C). (4) Kenya - University of California, Davis: Improvement of Drought and Heat Tolerance of Disease Resistant Beans in Semiarid Regions of Kenya (Attachment D).

(5) CRSP Management Evaluation - Michigan State University: The Management Office (Attachment E).

The Co-Chairman of JCARD reported on the Panel's recommendation and JCARD's endorsement to the Board for International Food and Agricultural Development (BIFAD) on July 20, 1984. Also, the Program Director of the Bean/Cowpea CRSP made a comprehensive report on progress of the CRSP since its inception in 1980, highlighting its achievements. The BIFAD review marked the culmination of the joint AID/BIFAD/JCARD triennial review process that has been initiated for all CRSPs.

In recommending to AID the three-year extension, BIFAD praises the achievements of the CRSP and endorses the resolution of JCARD that the ERP's recommendations be implemented. Also, BIFAD emphasizes the importance of assuring that research results reach farmers by establishing firm linkages with extension organizations in LDCs.

Attachments: A, B, C, D, E, as stated

#### PROJECT REVIEW AND EVALUATION PROFILES

# EXTERNAL REVIEW PANEL EVALUATIONS AND FOLLOW-UP

At the Annual Meeting of the ERP, the progress reports of the projects and site reviews were discussed at length and evaluated. A summary is presented here.

Project Evaluation Scales

Each project was assessed in seven categories related to the review issues agreed upon at the beginning of the process. The categories are:

- 1. Administration of Project 2. Technical Personnel

- 1.1Host Country2.1Host Country1.2United States2.2United States1.3AID2.3Collaboration
- 1.4 Interaction

### 3. Project Progress

- 3.1 Log Frame/Consistency of Objectives with Activities
- 3.2 Achievement of Natural Science Objectives
- 3.3 Achievement of Social Science Objectives
- 3.4 Achievement of Training Objectives
- 3.5 Publications/Information Dissemination
- 3.6 Food and Nutritional Component
- 3.7 Consideration of Women in Development (WID) Issues 3.8 Application to Systems Used by Small Farmers
- 3.9 Contribution to Development in the Host Country
- 4. Linkages
  - 4.1 Host Country
- 5. Overall Major Project Strengths/Deficiencies
- (See complete ERP Report in Section III)
- 4.2 AID Projects
- 6. Response to Prior ERP Project Recommendations
- 4.3 International
- 7. Overall Recommendation Rating

The items within the categories were assessed using the scales presented below.

- Overall Rating: General performance was considered with projects receiving one of three recommendations: #1 continuation with no major changes, #2 continuation with some changes recommended, and #3 continuation only with identified changes.
- Five-Point Evaluation Scale (for items 1-3.8, 4 and 6): Within a project each category was judged to be Exceptional (E), Highly Satisfactory (HS), Satisfactory (S), Less than Satisfactory (LS), and Unacceptable (UA). In some cases a specific criterion was not applicable and thus was rated Not Applicable (NA).
- Contribution to Development in the Host Country (for item 3.9): Evolving development potential was evaluated on the basic of Limited (L), Potentially Limited (PL), Potentially Important (PoI), Potentially Useful (PU), Already Important (AI), Highly Promising (HP), Long-Term Potential (LTP), and Beginning to Show Potential Worldwide Significance (WW).
- Overall Major Project Strengths/Deficiences (for Item 5): Brief descriptive statements included in texts of Project Evaluation Profiles are presented in the complete 1983 ERP Report.

	000	4 T N I T C	TDAT	IVE	-		വ				D	rogr								Responsi To erip	RATING*
			STRAT			ECHNI 2.2		13.1	3.2	3.3				3.7	3.8	3.9		NKAG		<u>10 ER</u>	7
																. <u></u>	<u> </u>		·		É É
BOTSWANA	нS	HS	S	S	LS	нs	S	S	Ε	LS	HS	S	NA	S	нS	PoI	E	LS	HS	S	1
BRAZIL/ROBERTS	S	HS	S	S	LS	HS	LS	нS	Ε	NΛ	S	S	NA	Ś	HS	PU	S	NA	HS	S	2
BRAZIL/BLISS	HS	HS	\$	S	LS	Ε	ΗS	нS	E	NA	HS	HS	NA	LS	S	PoI	Ε	NA	HS	NA	1
BRAZIL/HAGEDORN	S	LS	S	UA	LS	HS	UA	S	LS	NA	LS	NΛ	NA	LS	NA	L	S	NA	LS	UA	3
CAMEROON	LS	LS	S	LS	UA	HS	LS	HS	HS	NA	LS	S	NA	LS	S	PoI	S	S	s	UA	3
DR/COYNE	. S	HS	HS	HS	HS	HS	Ε	S	HS	S	HS	HS	NA	HS	S	PoI	S	NA	S	HS	ł
DR/LOPEZ-ROSA	S	HS	HS	Ε	нs	HS	E	S	HS	S	HS	HS	NΛ	HS	HS	AI	S	NA	S	HS	1
ECUADOR	S	S	HS	HS	S	S	HS	LS	S	HS	٤S	S	S	HS	ΗS	HP	HS	Ś	S	HS	2
QUATEMALA	HS	S	S	S	HS	hs/ua	HS	LS	Ε	UA	S	S	LS	LS	HS	WW	S	S	HS	S	2
HONDURAS	LS	S	S	LS	LS	S	LS	S	S	LS	S	S	NA	UA	S	PoI	S	S	S	S	3
INCAP	S	S	S	S	E	HS	S	S	μS	S	S	S	HS	ĻS	: S	PoI	S	S	HS	HS	1
KENYA	UA	LS	S	LS	S	HS	LS	S	S	NA	S	S	NΛ	้ร	ູ່ 5	PU	S	S	s	LS	3
MALAWI	S	Ş	S	S	ŀΒ	HS	HS	łß	HS	HS	HS	S	S.	1IS	HS	LTP	HS	S	S	NΛ	1
MEXICO	HS	HS	<b>₩</b> A	HS	НS	HS	HS	S	HS	NΛ	S	S	NA	S	HS	PoI	S	NΛ	S	NΛ	1
NICERIA/MARKAKIS	S	S	Ş	S	S	S	LS	S	S	S	S	LS	S	S	S	PoI	UA	NA	S	S	2
NIGERIA/MC WATTERS	HS	S	S	S	нŚ	HS	LS	S. <sup>·</sup>	HS	LS	S	HS	HS	S	S	Pol	LS	NΛ	S	S	2
SENEGAL	HS	HS	HS	HS	HS	HS	Ε	S	HS	NA	HS	HS	NA	S	HS	AI	HS	HS	HS	NA	1
TANZANIA	S	HS	S	S	S	HS	HS	S	S	HS	HS	S	S	HS	HS	PoI	HS	S	s	NA	<u>l</u>
KEY:E - ExceptionalUA - UnacceptablePU - Potentially UsefulLTP - Long-Term PotentialHS - Highly SatisfactoryNA - Not ApplicablePoI - Potentially ImportantWW - WorldwideS - SatisfactoryL - LimitedAI - Already ImportantLS - Less Than SatisfactoryPL - Potentially LimitedHP - Highly Promising									liəl												

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\*See text of individual project profiles for clarification of additional issues considered in this evaluation.

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	• • •	AID CONT	RIBUTION		<b>₽</b> .	TOTAL	TOTAL	TOTAL	
CRSP Program Year	Hgmt Entity Cost (a)	Country Research Projects (b)	Total AID Contri. (c) (a+b)			Fed/Non-Fed	HC Contri. (g)	US Fed/Non- Fed & HC (h) (f+g)	Spent in HC's (i) (drg)
Cumulative through Year 3 (9-30-83)	1,190,423	3,763,621	4,954,044	1,840,740	1,145,674	6,099,718	756,615	6,856,333	2,597,355
Estimated Year 4	585,840	3,104,134	3,689,974	1,549,711	887,784	4,577,758	616,938	5,194,696	2,166,649
Estimated Year 5	1,031,165	4,756,330	5,787,495	2,948,409	749,744	6,537,239	781,495	7,318,734	1 3,729,904
Subtotal Est. Actual Expenses	2,807,428	11,624,085	14,431,513	6,338,860	2,783,202	17,214,715	2,155,048	19,369,763	8,493,908
PipelineYear 6	30, 322	2,238,165	2,268,487	5,1,141,464	2:537,160	2,805,647	417,437	3,223,084	1,558,901
Subtotel Initiel Grant	2,837,750			7,400,324		20,020,362		1 1	
rojected Year 6	643,000 683,000	2;634,250 3,061,000		1,443,688 1,559,326	1.51	3,940,774 4,244,753,		4,448,204 4,793,088	1,951,118 2,107,661
Projected Year 8	727,000	3,305,890	4,032,890	1,683,051	540,953	4,573,843	591,885	5,165,728	2,274,936
Sub-tolal Ext. Request	2,053,000	9,201,140	11,254,140	4,686,065	1,505,230	12,759,370	1,647,650	14,407,020	6,333,715
fotal procram	4,890,750	23,063,390	27,954,140	12,166,389	4,825,592	32, 779, 732	4,220,135	36,999,867	16,386,524

# Bean/Cowpea Collaborative Research Support Program Summary Program Budget by Distribution Categories Cumulative Year 3 (FY 1983) through Year 8 (FY 1988) Projections

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# Sean/Cowpea Collaborative Research Support Program Summary AID Contributions by Project Cumulative Year 3 (FY 1983) through Year 8 (FY 1988) Projections

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	Act Exp Thru Year 3	Est Exp Current Year 4	Est Exp Year 5	Total Initial Grant	Projectud Year 6	Projected Year 7	Projected Year 8	Total Ext Request	Total Grant & Extensio
Botswana/CSU	153,724	192,626	295,330	641,680	193,230	208,690	225, 385	627,305	;1,268,9
Brazil/BTI	280,878	194,490	278,210	753,578	240,685	261, 540	284,065	786,290	1,539,8
Brazil/Bliss	72,273	142,685	228,370	443,328	78,570	82,455	86,650	247,675	691,0
Brazil/Hagedorn	66,702	94,645	144, 330	305,677	63,660	67,150	70,925	201,735	507,4
Cameroon/UGA	281,440	165,728	253,880	. 701,048	200,130	216,140	233,430	649,700	1,350,7
Dom. Rep./UNE	247,390	175,936	329,610	1 752,936	194,780	211,165	228,860	634,8115	1,387,7
Dom.' Rep. /UPR	312,411	152,687	273,780	738,878	198,600	215,290	233,315	647,205	1,386,0
Ecuador/CORNELL	181,049	159,035	253,560	593,644	114,190	123, 325	133,190	370,705	964,3
Guatemala/CORNELL	180,020	142,481	218,050	540,551	1'114,190	123, 325	133,190	370,705	911,2
Honduras/UPR	137,254	168,779	258,580	564,613	176,260	190,360	205, 590	572,210	1,136,8
INCAP/WSU	325,726	196,344	301,060	. 823,130	102,995	108,035	113,480	324,510	1,147,6
Kenya/UCD	350,999	172,088	313,680	836,767	226,420	242,935	260,770	730,125	1,566,8
Malewi/MSU	154,358	166,281	254,730	575, 369	103,160	111,415	120,330	334,905	910,2
Mexico/MSU	60,567	103,724	158,320	322,611	75,170	80,385	86,015	241,570	564,1
Nigeria/UGA	183,939 ;	155,370	237,910	577,219	105,930	120,005	135,205	361,140	938,3
Nigeria/MSU	85,363	, 116,155	177,480	378,998	56,465	60,985	65,865	183,315	562,3
Senegal/UCR	350,904	323,107	346,420	1,020,431	281,320	303,825	328,130	913,275	1,933,7
Tanzania/WSU	338,624	281,973	<b>433,030</b>	1,053,627	308,495	333,975	361,495	1,003,965	2,057,5
TOTAL	3,763,621	3,104,134	4,756,330	11,624,085	2,834,250	3,061,000	3,305,890	9,201,140	20,825,2

	FY 81-83 Act.	FY 84 Est. Fi	1 85 Est.	Totel Initial Gront	FY 86 Pro].	FY 87 Proj. FY 68 Proj.	Total Ext. Req.	Total Grant
BotswenaAID HC Contri. TOTAL	147,068 28,678 175,746	10,445	112,390 21,915 134,305	333,300 69,038 402,418	96,357 10,760 115,117	104,630 112,300 20,260 21,880 124,890 134,260	313,367 60,900 374,267	646,747 129,938 776,685
BrazilAIO HC Contri. 101AL	175,904 116,511 292,415	70,420	295,673 84,730 380,403	651,589 271,661 923,250	170, 366 58,000 236, 366	191,010 62,400 253,410 271,913	574,089 187,600 761,689	1,225,678 459,261 1,684,939
CameroonAID HC Contri. TOTAL	216,701 86,680 303,381	118,080 47,230 165,310	189,995 72,355 262,350	524,776 206,265 731,041	149,770 59,900 209,670	161,750 64,700 226,450 244,590	486,210 <u>194,500</u> 680,710	1,010,986 400,765 1,411,751
Dom. RepAlD HC Contri. TOTAL	310,006 60,201 370,207	161,441 39,830 201,271	298,788 42,235 308,163	770,235 142,266 912,501	191,570 36,850 228,420	207,690 225,095 39,960 43,350 247,650 268,445	120,160	1, 394, 590 262, 426 1, 657, 016
EcuadorAID HC Contri. TOTAL	: 89,477 <u>14,647</u> 104,124	76,139 <u>16,795</u> 92,934	120,780 18,950 139,730	286, 396 50, 392 336, 788	54,265 6,085 63,150	58,595 <u>9,600</u> 68,195 73,670		462,556 <u>79,247</u> 541,603
GustensisAID HC Contri: TOTAL	211,671 <u>77,060</u> 268,731	170, 301 45, 403 223, 784	330,947 .70,160 401,107	720,999 197,623 913,622	114,760 <u>30,300</u> 145,140	122, 335 32, 590 154, 925 165, 705	98,140	1,088,629 290,763 1,379,392
HondurasA10 HC Contri: TOTAL	49,000 20,090 69,090	36,730	131,376 52,750 184,626	272,698 (1 109,570 382,268	133,425	102,950 41,200 144,150 155,540	123,720	582,093 233,290 615,383
KenyaAIO HC Contri. TOTAL	117,615 89,307 207,002	55,250 87,500 142,750	195,010 90,000 285,010	367,875 266,807 634,762	106,930 ( <u>185,000</u> (191,930	114,688 90,000 204,688 218,063	344,681 270,000 614,681	712,556 536,807 1,249,443
HulawiAID HC Contri. TOTAL	63,489 <u>24,125</u> 87,614	107,740 <u>14,800</u> 122,540	147,975 13,000 160,975	319,204 5i,925 371,129	48,045 5,500 53,545	51,890 5,900 57,790 62,445	155,980 <u>178,000</u> 173,760	475,184 <u>69,725</u> 544,909
Hexico-AID HC Contri- TOTAL	25,862 9,828 35,690	52,228 29,180 81,408	79,190 33,500 112,690	157,280 72,508 229,768	37,590 <u>15,900</u> 53,490	40,195 17,000 57,195 43,010 18,200 57,195 61,210	120,795 5 51,100 171,895	278,075 123,600 401,683
NigeriaAID HC Contri: TOTAL	122,068 112;683 234,751	150,611 100,675 259,286	263,400 168,150 431,550	536,079 389,508 925,587	82,420 59,480 141,900	91,823 101,965 66,700 74,200 158,523 776,165	200,300 476,588	012,287 589,660 1,402,175
SenegalAID HC Contri. TOTAL	152,673 62,595 215,268	161,553 64,620 226,173	170,050 65,000 235,050	484,276 192,215 676,491	137,140 54,800 191,940	148,110 59,300 207,410 223,950	445,210 178,090 623,300	929,486 370,305 1,299,791
TanzanieAID HC Contri. TOTAL	15?,206 54,130 213,336	142,532 37,310 179,842	212,335 48,750 261,085	514,073 <u>140,190</u> 654,263	151,170 35,855 187,025	163,660 177,155 38,725 41,825 202,385 216,900		1,006,058 256,595 1,262,653
UgandaAID West IndiesAID	-0- -0-	-0- -0-	300,000 100,000	300,000	- <b>0</b> -	-0- ··· -0-	-0- -0-	<b>300,00</b> 0 100,000
Total ProgramAlD HC Contri. ' TOTAL	-0- 1,840,740 <u>756,615</u> 2,597,355	1,549,711 2, 616,938	948,409 781,495 729,904	6,338,860 2,155,048 8,493,905	1,443,688 507,430 1,951,118	1,559,326 1,683,051 548,335 591,885 2,107,661 2,274,936	4,686,063 <u>1,647,650</u> 6,333,715	11,024,925 3,802,698 14,827,623

Bean/Covpes Collaborative Research Support Program 'Project Expenditures in or on behalf of Host Countries Cumulative Year 3 (FY 1983) through Year 8 (FY 1988) Projections

Host Country Expenditures only--excludes Hanagement Office and US institution expenses
 Host Country contributions are based on actual reported for FY 81-83, approved budgets for FY 84, and historical ratio of AID HC expenditures/HC

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Bean/Cowpea Collaborative Research Support Program Summary AID Contributions by Budget Line ItemProjects Only Cumulative Year 3 (FY 1983) through Year 8 (FY 1988) Projections										
	Act Exp Thru Year 3	Est Exp Current Year 4	Est Exp Year 5	Total Initial Grant	Projected Year 6	Projected Year 7	Projected Year 8	Total Ext Request	Total Grant & Extension	
Salaries	1,481,493	1,144,249	1,255,940	3,881,682	1,148,795	, 1,232,135	1,322,165	3,703,095	7,584,777	
Fringe Benefits	81,532	94,687	111,905	288, 124	100,875	108,305	116,325	325,505	613,629	
Equip & Fac	381,913	397,929	948,965	1,728,807	220,095	245,990	272,870	738,955	2,467,762	
Dom Travel	149,735	114,989	172,735	437,459	104,300	112,650	121,660	338,610	776,069	
Intnl Travel	373,101	255,907	371,860	1,000,868	.242,655	262,065	283,020	787,740	1,788,608	
Materials & Supplies	362,204	224,619	415,000	1,001,823	200,685	216,855	235,400	652,940	1,654,763	
Other Direct Costs	286,245	425,002	827,715	1,538,962	420,835	455,305	492,540	1,368,680	2,907,642	
Total Direct Costs	3,116,223	2,657,382	4,104,120	9,877,725	2,438,240	2,633,305	+2,843,980	7,915,525	17,793,250	
Indirect Costs	647,398	446,752	652,210	1,746,360	396,010	427,695	461,910	1,285,615	3,031,975	
Total Costs	3,763,621	3,104,134	4,756,330	11,624,085	2,834,250	3,061,000	3,305,890	9,201,140	20,825,225	

\* AID Contribution to Country Research Projects--Excludes Management Office and Year 6 Estimated Pipeline Expenses

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	<u> </u>	'ear 5		Υ	ear 6		<u>۲</u>	ear 7		. <u> </u>	ear 8	·····
	Projects	MO	<u>Total</u>	Projects	MO	Total	Projects	<u>MU</u>	lotal	Projects	MO	lotel
Selaries	1,255,940	173,000	1,428,940	1,148,795	182,000	1,330,795	1,232,135	191,000	1,423,135	1,322,165	200,000	, 522, 165
Fringe Benefits	. 111,905	32,000	143,905	100,875	34,000	134,875	108,305	36,000	144,305	116,325	38,000	154, 325
Consultant Fees-ERP	-0-	30,000	30,000	-0-	35,000	35,000	-0-	40,000	40,000	-0-	45,000	45 <b>,000</b> .
Equip & Fec	948,965	15,000	963,965	220,095	5,000	225,095	245,990	. <b>2,500</b>	248,490	272,870	2,000	274,870
Dom Travel	172,735	64,000	236,735	104,300	70,500	174,800	112,650	77,500	190,150	121,660	85,500	207 <b>,160</b>
Intnl Travel	371,860	35,000	406,860	242,655	39,000	281,655	262,065	43,000	305,065	283,020	. 47,000	130,020
Materials & Sup.	415,000	8,000	423,000	200,685	9,000	209,685	216,855	10,000	226,855	235,400	11,000	246 <b>,400</b>
Technical Assistanc	e -0-	450,000	450,000	-0-	50,000	50,000	-0-	50,000	50,000	-0-	50,000	50 <b>,000</b>
Meeting Expenses	-0-	11,500	11,500	-0-	13,000	13,000	-0-	14,500	: 14,500	-0-	16,000	16,000 :
Other Direct Costs	827,715	77,665	905,380	420,835	61,000	481,835	455, 305	65,000	520 <b>, 30</b> 5	492,540	69,000	561,540
Total Direct Costs	4,104,120	896,165	5,000,285	2,438,240	498, 500	2,936,740	2,633,305	529,500	3,162,805	2,843,980	563,500	3,407,480
Indirect Costs	652,210	135,000	, 787,210	_396,010	144,500	540, 510	427,695	153,500	581,195	461,910	163,500	625,410
Total Costs	4,756,330	1,031,165	5,787,495	2,834,250	643,000	3,477,250	3,061,000	683,000	3,744,000	3,305,890	727, 000	4,1132,890

# Bean/Cowpea Collaborative Research Support Program Summary AID Contribution by Line Item--Projects and MO Year 5 (FY 1985) through Year 8 (FY 1988)

• Excludes Year 6 estimated pipeline expenses

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# Hanagement Office Dudget Detail

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	fr 81 Actual	FY 82 Actual	FY 03 Actual	FY 04 Est.	FY 85 Est.	lotel Initial Grent	FY 86 Projected	FY 87 Projected	FY 80 Projected	Intel Extension	lota) Crant
eleries	102 012	141 017	and the second		- 14 Mar 19	a come			and an and a second	Request	Grent
ringe Benefits	102,952	141,917 26,755	132,801 26,101	167,165			102,000	191,000	200,000	573,000	1.290,91
	10,12	- ALL ALL			32,000	134,620	. 34,000	36,000	. 38,000	100,000	247,62
quip. & Fec.	. 21,603	8,442	12,775	20,000	15,000	,i 77,020	5,000	2,500	2,000 .	9,500	1 61,32
om. TrevelHO	20,793	28,852	10,350	12,900	1.1.1.000	100 000	·		1		
000	6.533	3,525	5,107	13,400	14,000	45,565	15,000	16,500	18,000	49,500	152,40
10	14,167	17,620	15,010	17,500	20,000	85.797	22,500	18,000 25,000	20,000 27,500	54,500	100,06
EAP	-0-	863	14,597	1.200	15,000	31,660	16,500	18,000	20,000	75,000	160,29
otal Dom. Travel	49,493	53,000	53,872	45,000	64,000	265,425	70,500	77,500	15,500	233,500	06 16
ntni TravelHD	. 80,447	11,524	6,103	15,000	1 10 000	101 014	·				
800	-0-	-0-	-0-	15,000	10,000	123,074	11,500	13,000	14,500	39,000	t 167,07
TC	-0-	12,898	1. 3.040	-0-	-0	16.738	-0- -0- \$	-0	-0-	ł · · · 0-	1 1 -0
ENP	-0-	The second secon	4.941	40,000	25.000	69.941	27,500	30,000	32,500	90,000	16,73
otal Intnl Travel	80,447	24,422		35,000	35,000	209,753	39,000	11,000	47.000	129.000	159,94
at. & Supplies	4,856	2,826	3,397	7,000	8,000	1 24 070		10.000		-	
100 C						26,079	9,000	; 10,000	11,000	30,000	36.07
echnical Assistance	875	1,142	937	40,000	450,000	492,954	50,000	50,000	50,000	150,000	647.95
and all and from the										170,000	
onsultant rees-DP	-0-	870	0,340	25,000	30,000	64,210	. 35,000	40,000	45,000	120,000	. 104,21
ubExec. Sum./Ann. Hop.	-0-	: 109	100.001	1	10.						
Tech. Summery	-0-	-0-	-0-	5,000	1 1.000	14,770	6, XX	7,000	7,500	21,000	15.20
ERP Report	-0-	-0-	334	3,000	4,000	5,000	3,500	4,000	4,500	12,000	: 17.000
Other	and the second se	-0-	707	17.000	32, 520	45,307	4,500	5,000	5,500	15,000	27,33
otal Publications	윾	109	4,202	22,000	45,520	71 911	13,000	14,000	15,000	42,000	107,30
					1.		11,500	50,000	52,500	30,100	161,91
eting Expenses000	1,733	1,356	4,019	3,200	4,000	14,300	4,500	5.000	5,500	15,000	; 22,300
	1,165	2,454	4,478	5,400	6,000	19,497	6,500	7,000	7,500	21,000	40,49
ENP otal Heeting Expenses	-0-	-0-	1,212	1,250	1,500	. 3,962	2,000	2,500	3,000	7,500	11,467
car neering expenses	2,090	3,810	9,709	9,050	11,500	37,767	13,000	14,500	16,000	43,500	A1,26
ther Direct Costs · ·	17,571	16,375	25:233	32,675	32,145	123, 999	33,500	35,000	36,500	105,000	22h, 99
ala) Diseat Costs	-				1		States and	57.000	50,500		220,995
otal Direct Costs	297,624	279,000	292,331	456, 525	096,165	2,222,453	498,500	579,500	563,500 1	591,500	3. 113,953
direct Costs	101,647	109,408	109,525	129,315	135,000	584,975	144,500	153,500	163,500	461,500	1.046.475
tel Costs	399,271	100 204	401,856		1,031,165		1000				
	377.4/1	JUY. 476 .	401.026	205.840	1.031.165	7. BO7. 428	643,000	683,000	727,000 2	.053.000	4. 650, 420

#### FUTURE FLANS

#### 1. INTRODUCTION

The problems being addressed by the Bean/Cowpea CRSP by their nature are systemic, rooted deep in a complex of interacting variables and will require longterm research and training to adequately address. To maintain the momentum generated in the initial stage of this Program, the first three-year extension is requested.

The overall <u>goal</u> of this Program remains the same: To make a significant contribution to improving the living conditions of small farm producers in developing countries and to increase the availability of low-cost nutritious foodstuffs in the marketplace for the rural and urban poor.

As was the case with the initial grant, the <u>purpose</u> of this grant is "to provide for the organization and mobilization of financial and human resources necessary for mounting a major multi-institutional US/HC collaborative effort of research and training in bean and cowpea related areas. This effort is expected to provide the knowledge base necessary to achieve significant advances in alleviating the principal constraints to improved production, marketing and utilization of beans and cowpeas in developing countries. A subpurpose is to improve the capabilities of appropriate HC institutions to generate, adopt and apply improved knowledge to local conditions."

# 2. YEARS ONE THROUGH THREE REFERENCE GUIDE

The MO is responsible for compiling, editing and publishing the following documents;

1983 Annual Report;

Research Publications and Presentations: See <u>Pulse Beat</u>, Spring 1984, Insert, page 6.

CRSP Brochure Annual Report: Executive Summary Annual Report: Technical Summary Detailed Annual Report External Review Panel Report Pulse Beat Vanguard Research Highlights Women-in-Agriculture Resource Guides WID Pamphlet

#### Program Evaluation

1983 Annual Report: See Section III, External Review Panel Report, pages 50-55, and Follow-Up Chart Insert.

#### Programmatic Review

Annual programmatic reviews are done by the appropriate CRSP management groups. To aid in this process, annual reports both detailed and in summary form are made available to the MO by all projects. This material is distributed to all CRSP participants including AID and BIFAD on an annual basis. Additional reports are forwarded to AID as requested. No change is proposed in these procedures.

Additional reviews of the CRSP by AID are done and may coincide with other regularly scheduled reviews. As a result of these AID reviews, adjustments in the program and/or the funding level may be required by AID. All documents are distributed to AID and BIFAD and are available from the MO on request.

#### Fiscal Review

Major audits of both the US and HC institutions will be the responsibility of AID. However, the Management Entity, through the MD and the MSU Contracts and Grants<sup>4</sup> Office, will closely monitor the accounts and assign new funds annually in accord with good management practices, BOD policy and the level of AID CRSP allocations.

In order to facilitate this process, quarterly fiscal reports are required of all projects. HC institutions are therefore required to make prompt reports to the US lead institutions. Distributed to AID, TC, BOD and ERP, a composite fiscal report is updated quarterly and is available from the MO. No change is proposed in the management of these responsibilities.

#### YEARS FOUR THROUGH EIGHT

# The Management Entity (ME)

The Management Entity for the Bean/Cowpea CRSP is Michigan State University (MSU). There is no change proposed in this designation. MSU will continue to accept program and fiscal responsibility for the performance of this CRSP, performing the functions as detailed in the original grant.

The Management Office (MC)

The Management Entity maintains an office to carry out most of the operational responsibilities. There is no change proposed in the structure of that office which is composed of:

Program Director Deputy Program Director Women-in-Development/Program Specialist Administrative Officer Secretarial Staff

This office will continue to monitor and facilitate the work of the Country Research Projects and provide support for the management advisory groups of the CRSP (TC, Board, ERP). In addition, the Management Office will increase communication among the projects and with other outside organizations through regular publications, workshops and conferences. An active level of CRSP-wide communication is demonstrated by the MO whose documented average daily output is twenty-five phone communications (local and long distance), one telex/cable (incoming or outgoing), twenty-five incoming pieces of mail handled, fifty pieces of mail outgoing, and two visitors (local or from out of town). There are multiple phone and mail communications between the MO and the AID program officer weekly.

The Board of Directors (BOD)

The BOD is comprised of five members representing the nine lead institutions of the CRSP. The members come from among the Institutional Representatives of the lead institutions so designated by the Presidents of those institutions. The group invites consulting members from among the administrators of CRSP Host Country institutions. No change is proposed in this structure.

The BOD reviews the activities of the CRSP and recommends policy to the Management Entity. It also reviews the annual budgets of the CRSP and monitors the overall fiscal management.

Because of the significant role of the BOD and the limited number of meetings held per year (average three), the BOD requests a change in terms of office from two years to three years. The change is justified because experience has shown that it requires nearly a year for a Board member to totally grasp the complex ORSP operations. The involvement in time and learning reinforce the appropriateness of term extension. All insitutions have now been represented on the Board. This change was communicated to all of the Insitutional Representatives and cuncurrence was received. The Technical Committee (TC)

The TC is made up of seven researchers, five from the US institutions, one from the International Agricultural Research Centers and one from the Host Country institutions. It functions as the internal project review and coordination panel and acts as the principal advisory group on technical operations. No change is proposed in the organization or operations of this group.

#### The External Review Panel (ERP)

The ERP is made up of seven eminent scientists, representing an array of disciplines, who serve the CRSP by conducting annual external reviews of the projects and general management. The group organizes its reviews as it deems appropriate at both US and HC sites, utilizing the many written materials provided. No change is proposed in the structure of the group.

The ERP will conduct its third CRSP-wide review in 1984. At that time it is proposed that members begin rotating-off the Panel in a way that will allow for continuity and appropriate heterogeniety in the group. Using a 2-2-2-1 pattern would establish a four-year term for the members of the group. This plan, originally suggested by the ERP, has been approved by the CRSP Board of Directors.

# WOMEN-IN-DEVELOPMENT STRATEGY

Recognizing the significant role played by women in many developing countries in bean and cowpea production, this CRSP has incorporated a strong Women-in-Development focus and has included a WID Specialist on its Management Office staff. This was originally a quarter-time appointment but effective September, 1983 it became a fulltime position with half of the work effort given to WID and the remainder to more general program-related tasks such as editing the CRSP newsletter and annual reports. A Women-in-Development pamphlet that provides an overview of women's roles in bean and cowpea production in the HCs and outlines Bean/Cowpea CRSP strategies to incorporate women as agricultural producers, researchers and students has been prepared and is included in\*Section III. A work plan has also been developed and is being implemented. Briefly, three areas of concentration are identified: those with a project focus, those related to the program as a whole and those that address broader policy issues of concern to the WID field.

#### Project-Centered Areas of Concentration

The major purpose is to increase awareness of how the role played by HC women and children in agriculture may affect, and be affected by, project activities. This input is tailored to the individual projects and takes various forms:

- A. For those projects identified by the External Review Panel as needing greater concentration on WID issues the following plan has been adopted:
  - 1. The Project Paper, Annual Reports, Trip Reports, ERP Reports and other relevant materials are reviewed in order to document the extent to which goals and accomplishments have addressed WID issues.

- Planning discussions are held with the PI so as to better identify where WID inputs may be most appropriate.
- 3. A Women-in-Agriculture Resource Guide is prepared. This includes:

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- a. A description of women's roles in the farming systems of the HC drawn largely from secondary source materials.
- An examination of the implications of this literature for project activities.
- c. Information on women's organizations in the HC and, where possible, identification of US and HC researchers who could serve as consultants to the project.
- d. An annotated bibliography on farming systems and women's roles in agricultural production in the HC.
  - This guide is made available to US and HC project researchers.
- Once a specific strategy is agreed upon, efforts are made to assist in implementation.
- B. A slightly different approach is used with regard to those projects the ERP judged as demonstrating adequate attention to WID:
  - By reading the Project Paper, Annual Reports, Trip Reports and other relevant information, the WID Specialist identifies WID concerns that have been successfully addressed and documents the methodologies used.
  - This information is disseminated to the other projects. For example, copies of articles where WID concerns are well addressed are circulated and PIs are familiarized with successful data collection techniques used in their geographic/cultural areas.
  - Project researchers are encouraged to make mention of WID issues in their publications and to further expand their efforts to incorporate women through:
    - a. Hiring competent female researchers and technicians, both in the US and in the HCs. Where possible, the WID Specialist assists in this process by providing lists of relevant organizations and individuals for consideration.
    - b. Training of HC and US females in both degree and non-degree programs.

#### Program-Centered Areas of Concentration:

In addition to project-centered activities, a number of program-wide activities are carried out by the WID Specialist:

A. Workshops and Training: Training of HC nationals is an important component of the Bean/Cowpea CRSP. Many projects include opportunities for individuals to pursue graduate degree studies and/or participate in non-degree programs. As the Training Tables in \*Section I, pages 23-25, indicate, efforts to recruit women have been successful and will be continued in the future. Attention will also be paid to familiarizing researchers and students with women's roles in agricultural production in developing countries. The feasibility of locating existing WID curricula, or designing short seminars which could be held either separately or in conjunction with other Bean/Cowpea CRSP programs or workshops, is being investigated. Where possible, those individuals in degree programs may also be encouraged to take a course or participate in some formal offering related to Women-in-Development. In a related vein, students who have conducted research addressing women's roles in agricultural production and/or processing may be encouraged to present their findings at appropriate professional association meetings (AWID and others). Training is of particular importance because many of the HC students will command top research and administrative positions when they return home. In these policy making roles they may significantly influence training and research opportunities for women and build WID concerns into development efforts.

- B. While the Bean/Cowpea CRSP newsletter, <u>Pulse Beat</u>, is already an important means of disseminating information, it can be used to address WID concerns in a more systematic fashion. For example, brief reviews of relevant books and articles can be included, female researchers and students highlighted and WID-related findings from the various projects reported.
- C. Being well acquainted with the eighteen projects, the WID Specialist identifies areas of concern to women that are not currently receiving attention in the Program. Recommendations are made as to how these can be incorporated in future planning efforts.

#### Documenting the Effectiveness of WID

As the program evolves, an increasingly important responsibility will be to demonstrate the effects of having incorporated females as researchers, students and agriculturalists in the projects. This will be done through writing articles, participating in conferences and seminars and other appropriate means.

This plan of work was presented to the Technical Committee on April 26, 1984 and to the Board of Directors on May 10, 1984 where it received a positive endorsement. One <u>Women-in-Agriculture Resource Guide</u> (on Cameroon) has been prepared to date and is included in Section III. of the 1983 Annual Report.

#### PROJECTS

Project activity will continue through years four and five under essentially the same plans. The major bean and cowpea constraints are being attacked and as new technology is developed, this is verified in farmer trials and site specific adaptations. Exceptions are the projects that the ERP and BOD reviews indicated were not acceptable. These projects have developed new plans; however, they still impact on the same constraints and have much the same goals.

Years six, seven and eight will see a shift of emphasis to more adaptive research and the incorporation of newly developed technology into farming systems plans and commercial use.

Given the nature of plant research, however, there will continue to be new strains of disease and insects, different environmental stress problems and the desire for increased yield and improved quality which mean a need for continued basic research. New methodologies and techniques of research are developed which help in solving problems, but new problems in crop production continue to arise.

The major contribution of the CRSP and its current set of projects is the adaptation of current technology to developing country situations the training of staff and the development of institutions that can provide sustained research competence in the LDCs.

# BEAN/COWPEA CRSP LOG FRAME

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ATTACHMENT I.

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gram Coal	Objectively verifiable Indicators	Verifiers	Assumptions .
e a significant contribution to improvement of living conditions small farm producers in developing ntries and increase the availabil- of low cost, nutritious food in marketplace for the rural and an poor.	Development of important research results addressing identified constraints. Stronger national research program addressing identified constraints. CRSP products accepted by farmers,	Annual reports and positive TC/ERP reviews of progress. Increased overall size of national program research team with greater multidisciplinary competence and HC investment in the project.	Food and nutrition problems in the developing nations can be solved in part through research. Collaboration between US and HC can be of mutual benefit. Achievement from this program can
	extension agents, IC private initia- tives in ways which will advance goal.	Adaptation of findings by external agents: farmers, IARCs, extension agents, commercial interests.	reach the rural and urban poor.
	Increased participation of women.	Increased male and especially female ORSP graduates in the professional pipeline.	tribute to development in ways which do not increase the morginalization of women and their familles.
pose	Objectively Verifiable Indicators	Verifiers	Assumptions
anize and mobilize financial and an resources necessary for mount- a major multi-institutional US/HC	US/HC administrations' support of projects.	Smooth management with good communication with MO.	HC will maintain interest in the commodity and in CKSP participation.
laborative effort in research and ining.	HC and US teams functioning with good working relationships established.	US/IC quarterly and annual reports.	Coups and other forms of political or social disturbances will not be of a
vide the knowledge buse necessary uchieve significant advances in eviating the principal constraints	Research teams operating with effective level of equipment, supplies and tech- nical support.	Formal commitment of participants. Consistent pattern of student training established.	magnitude at project lifes as to severely and insurmourtably affect progress.
improved production, marketing and lization of beans and compeas in	Effective communications among all par- ticipants especially among those work-	Documentation of secondary data.	Necessary basic equipment, facilities and supplies will be uvailable or ac- quirable within reasonable time frame.
rove the cupabilities of HC insti- ions to generate, adopt and apply	ing on the same constraints across projects.	Primary data analyses available in reports and publications.	There is a sufficiently large pool of students from which to draw for
roved knowledge to local condi- ns.	Mechanism established for the identi- fication and support of US and HC male and female CRSP students.	HC contributions to CRSP documented in each year's budget analysis.	advanced training at least at the secondary school graduate level.

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Useful secondary data identified.

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Improved research infrastructure with laboratory and field research in process.

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<u>15</u>	Objectively Verifiable Indicators	<u>Verifiers</u>	Assumptions
<ul> <li>better quality yields pro- under stressful conditions.</li> <li>er understanding by US and HC corators of the socio-cultural me agri-cultural environment.</li> <li>cts of research packaged oriately for consumer use.</li> <li>bation dissemination for a ty of audiences.</li> <li>ction and utilization research one useful for the wider rich community.</li> <li>bale and female graduates of ing programs.</li> </ul>	<text></text>	Yield data from local and national census. Reports of projects incorporate and integrate socio-cultural with agri-cultural information. Materials acknowledged as received by many groups and increased con- sumer demand. Requests from professional community for information and products increased. Site visits. CRSP graduates identified in iC research positions. Increased numbers of male and female students continually in short-term and long-term training.	There exists in the IC at least a skeletal infrastructure for information dissemination. There are IC and US women sufficiently interested in advanced education and professional employment to work their way through the system when it is opened to them.
	Objectively Verifiable Indicators	Verifiers	Assumptions
sary long-term/short-term wel from HC/US institutions an communicate with each other. cial contributions from AID and d HC institutions. ment such as vehicles, lab, and office equipment. ities and supplies for HC/US ement support from HO, US and stitution administrations. mation and support from external s.	Annual allocation from AID. CRSP, funds flowing on regular bases to US and HC research teams. Annual plan of work and budget docu- ment with US/HC contributions. Frequent and regular communication among AID, HO, US and HC. Participation in ORSP research and training activity by external groups (1.e., AID-sponsored FSR teams, IANCs, USAID missions).	<ul> <li>Increase in communications initiated by participants with one another.</li> <li>Review of annual documents by TC and BOD.</li> <li>AlD letter of credit authorizing runds.</li> <li>Regular reimbursement requests with quarterly reports.</li> <li>AlD approvals to purchase indicated equipment received.</li> <li>Site visits.</li> <li>Heetings and other forms of communication with external agents.</li> </ul>	AlD will generate necessary opprovals in timely fashion. AlD will have funds available for use by the ORSP. All parties making input will continue to feel the mutual benefils worth the investments.
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ATTACHMENT J



Sector Council for Agriculture Agency for International Development Washington, D.C. 20323

SECTOR COUNCIL FOR AGRICULTURE

Minutes of Regular Meeting

Volume III, No. 13

August 7, 1984

Council members and alternates present included: J. S. Robins, Council Chairman, S&T/FA; Ray Hooker, ASIA/TR/ARD; Albert (Scaff) Brown, LAC/DR/RD; Ans Burgett, AFR/TR/ARD; Archie Hogan, NE/TECH/AD; Donald McClelland, PPC/PDPR Amson R. Bertrand, S&T/AGR; William F. Johnson, BIFAD/S; Donald E. Anderson, S&T/RD; Don Wadley, Acting Executive Secretary, S&T/FA

Observers and project review participants included: Priscilla Boughton, BIFAD/S; John Yohe, S&T/AGR; Ralph Cummings, Jr. S&T/FA; Anne del Castillo, LAC/DR/RD

Agenda items discussed:

- 1. <u>Institution-Building Training Module</u> Priscilla Boughton discussed BIFADs plans to strengthen and expand training on LDC institution-building as follow-up to a successful Pre-Departure Orientation Workshop at the University of Hawaii. The proposal is to further develop and refine the module(s) with the assistance of professional training consultants and draw on current examples and experience from AID in a September workshop. In addition to orientation sessions for university teams going overseas, the module could be used for AG/RD workshops for AID officers, and possibly for foreign participants studying in the U.S. The tone and results of Council discussions were:
  - orientation and professional update for proposed target groups on institutional development (IB) is needed and would be useful
  - an indepth look at institution-building (IB) is needed (e.g. lack of LDC ability to adopt and adapt; clarification of IB beyond organization; approaching IB from objectives and tasks to resolve development problems rather than focus on establishing physical plant/organization, etc.)
  - Council members agreed to identify appropriate officers in their bureaus to participate in small group discussion in mid-September.
     Bureau representatives to <u>call recommended participants to Priscilla</u>" <u>Boughton or Frank Fender, BIFAD</u>.
- 2. <u>Bean/Cowpea CRSP Review</u> The Council unanimously approved a three-year extension of the Bean/Cowpea CRSP.

Dr. Anson Bertrand, S&T/AGR, introduced the subject, then John Yohe gave a sketch of the project, institutional mechanisms, accomplishments, and a projection for the next three years. Extensive background materials were provided earlier to bureau representatives on this CRSP. Members were most positive on the structure, implementation, and accomplishments of the CRSP. There was agreement that the external evaluation process was highly effective. The long-term research linkages and cost effectiveness are also highly relevant. The Women in Development component also strengthened the CRSP.

The focus on research was reaffirmed although there are recognized informal opportunities for extension linkages, e.g. training. Extension will come through existing national systems; variety releases to date are positive examples. On the management side, progress has been made to improved travel planning, but additional emphasis is required. The few in-country problems were mostly related to lack of principal investigator counterpart staff. Again, acceptable progress is being made. Effort is also being focused on stronger management linkages between AID and the CRSP Management Entity.

3. <u>Council Agenda</u> - A process to develop priority agenda items and an agenda focus for the next year was discussed. Scaff Brown encouraged consideration of priority items and realistic relationship to JCARD activities and gave examples. Robins requested representatives to give the subject some thought and provide suggestions on priority agenda items to him before Labor Day.

#### 4. Information Items

- a. Robins reminded members of <u>AID Centers' Day</u> scheduled Wednesday, <u>October 31</u>. John Eriksson is exploring interests of senior officers in all bureaus for specific meetings with IARC Center Directors, including PPC (structural interaction, policy dimensions such as FAO and IBPGR).
- b. Projection of Agriculture Sector Council Meetings and Related Activities:

August 14; JCARD - 1408 NS August 28; <u>Agriculture Sector Council</u> - 6941 NS September 5 (afternoon) 6 and 7 (morning): Council sponsored Agricultural Technology Management Workshop - 1408 N.S. September 7; Sector Council members' farewell luncheon for Dave Schaer (proposed) September 10 (afternoon) - 11 (morning): IARC Scientific Liaison Officers' sessions - NAS Room 150 September 18; <u>Agriculture Sector Council</u> - 2248 NS Mid-September; 2-day BIFAD Workshop to further develop and refine institution-building training packages (bureaus to suggest possible representatives for small discussion group see 1. above).