

**AIRGRAM**

**DEPARTMENT OF STATE**

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GENERAL INVEST. DEV.  
BRANCH  
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FROM - AMEMBASSY KINGSTON

SUBJECT - CARIBBEAN REGIONAL NUTRITION PROJECT (538-0022)

REFERENCE -

Attached is copy of subject evaluation. Background documents attached.

LAWRENCE

35-w

w/attach attach to be run w/airgram

All 9 in LAC IDP/PPE Library

PAGE 1 OF 1 PAGES

DRAFTED BY <b>PROG:SMerrill</b>	OFFICE <b>PROGRAM</b>	PHONE NO. <b>092-94850</b>	DATE <b>8/13/79</b>	APPROVED BY: <b>Actg.Asst.Dir.IIPJohnson</b>
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AID AND OTHER CLEARANCES

**UNCLASSIFIED**  
CLASSIFICATION

PROJECT EVALUATION SUMMARY (PES) -- PART I

Report Symbol: U 447

1. PROJECT TITLE <b>CARIBBEAN REGIONAL NUTRITION CFNI</b>			2. PROJECT NUMBER <b>538-0022</b>	3. MISSION/AID/W OFFICE <b>USAID/JAMAICA</b>
5. KEY PROJECT IMPLEMENTATION DATES			4. EVALUATION NUMBER (Enter the number maintained by the reporting unit e.g., Country or AID/W Administration Code, Fiscal Year, Serial No., beginning with No. 1 each FY)	
A. FY PIO, AG or Equivalent FY <u>78</u>	B. Final Obligation Expected FY <u>80</u>	C. Final Input Delivery FY <u>81</u>	<input checked="" type="checkbox"/> REGULAR EVALUATION <input type="checkbox"/> SPECIAL EVALUATION 74-9, 146 79-9, 146 7617 15 OCT 80 KINE-5TC N	
6. ESTIMATED PROJECT FUNDING (000's)			7. PERIOD COVERED BY EVALUATION	
A. Total \$ <u>1,291</u>			From (month/yr.) <u>June, 1978</u>	
B. U.S. \$ <u>1,102</u>			To (month/yr.) <u>June, 1979</u>	
			Date of Evaluation Review <u>July 2, 1979</u>	

B. ACTION DECISIONS APPROVED BY MISSION OR AID/W OFFICE DIRECTOR

A. List decisions and/or unresolved issues; cite those items needing further study. (NOTE: Mission decisions which anticipate AID/W or regional office action should specify type of document, e.g., program, SPAR, PIO, which will present detailed request.)	B. NAME OF OFFICER RESPONSIBLE FOR ACTION	C. DATE ACTION TO BE COMPLETED
Based on a review of activities conducted during the first year of the project, a revised implementation plan for years two and three was prepared.	CFNI and AID	7/2/79
Based on a review of actual expenditures during the first year and anticipated expenditures for the next two years of the project, a revised financial plan was prepared. An additional \$255,000 is required during the last year of the project. This will be reflected in RDO/C's FY 81 Congressional Presentation.	CFNI and AID	7/2/79
Annual project evaluations have been scheduled for September/October 1980 and September/October 1981 to take into account the revised implementation schedule for the 3-month intensive courses which will now occur in the summer months of each year. This will require a change in the Project Assistance Completion Date from 5/31/81 to 12/31/81.	USAID/J and RDO/C	8/31/79
CFNI will submit to USAID/J a final copy of the Manpower and Training Needs Assessment for Middle-Level Personnel in Nutrition and Dietetics in the Region and CFNI's plan of action in the form of both a long-term and short-term training strategy.	USAID/J	8/31/79
An Implementation Letter will be issued reflecting all of the above.	CFNI	9/30/79
	USAID/J	8/31/79

9. INVENTORY OF DOCUMENTS TO BE REVISED PER ABOVE DECISIONS

<input checked="" type="checkbox"/> Project Paper	<input checked="" type="checkbox"/> Implementation Plan e.g., CPI Network	<input type="checkbox"/> Other (Specify)
<input checked="" type="checkbox"/> Financial Plan	<input type="checkbox"/> PIO/T	
<input type="checkbox"/> Logical Framework	<input type="checkbox"/> PIO/C	<input type="checkbox"/> Other (Specify)
<input checked="" type="checkbox"/> Project Agreement	<input type="checkbox"/> PIO/P	

10. ALTERNATIVE DECISIONS ON FUTURE OF PROJECT

A. <input type="checkbox"/> Continue Project Without Change
B. <input type="checkbox"/> Change Project Design and/or
<input checked="" type="checkbox"/> Change Implementation Plan
C. <input type="checkbox"/> Discontinue Project

11. PROJECT OFFICER AND HOST COUNTRY OR OTHER RANKING PARTICIPANTS AS APPROPRIATE (Names and Titles)

Dr. Michael Gurney: Director, CFNI *[Signature]*  
 Dr. Linda Haverberg: Chief, HNP, USAID/J *[Signature]*  
 Mr. Hank Johnson: ADIR (Actg.), USAID/J *[Signature]*

12. Mission/AID/W Office Director Approval

Signature *[Signature]*  
 Typed Name \_\_\_\_\_  
 Donor: E. Lion, Mission Director  
 Date \_\_\_\_\_ USAID/Jamaica

CARIBBEAN FOOD AND NUTRITION INSTITUTE/  
UNITED STATES AGENCY FOR INTERNATIONAL DEVELOPMENT  
CARIBBEAN REGIONAL FOOD AND NUTRITION PROJECT:

Review of Activities Undertaken During  
the First Year of the Project:  
June, 1978 - June, 1979

Prepared as a result of The Joint CFNI/USAID  
Annual Evaluation: July 2-3, 1979  
Kingston, Jamaica

## 1. INTRODUCTION

In June 1978, an agreement was signed between the Caribbean Food and Nutrition Institute/Pan American Health Organization/World Health Organization (CFNI/PAHO/WHO) and the United States Agency for International Development (AID) authorizing a grant of \$1,102,200 to CFNI/PAHO/WHO for a period of three years, ending May 31, 1981. The purpose of the grant is to increase the capabilities of the English-speaking Caribbean countries in formulating, implementing and evaluating national and regional food and nutrition policies and programs.

The grant funds are being used to finance:

- (a) two professional and two support staff to augment CFNI's staff, and thirty-one person-months of short-term consultants' services for increased technical assistance and training;
- (b) in-service training courses, seminars and technical group meetings;
- (c) educational materials production and equipment/supplies for in-country information dissemination and training purposes; and
- (d) a study of the region's manpower and training needs for middle-level personnel in nutrition and dietetics.

The program is being carried out by CFNI, PAHO's specialized center for food and nutrition in the Caribbean region.

## 2. SUMMARY OF CURRENT PROJECT STATUS

### 2.1 General Progress in Relation to Design

During the first year of the grant, the planned activities were satisfactorily carried out. The Agricultural Economist assumed duties on June 1, 1978 and the post of Applied Nutritionist was filled in May, 1979. Fourteen

short-term consultants were identified and served during the period under review.

Orders have been placed for basic equipment and supplies following an assessment of CFNI's information services and materials production by two short-term consultants. Two short-term consultants undertook the study on manpower and training needs for middle-level personnel in nutrition and dietetics and have submitted their report.

Two workshops on the dietary management of diabetes have been conducted - one in Antigua, the other in St. Lucia.

The first three-month intensive course in the implementation of food and nutrition programs for middle-level personnel was conducted during March 14 - June 8, 1979. Eight participants from seven Caribbean countries attended.

CFNI has continued collaboration with regional governments in the formulation and implementation of food and nutrition policies and programs. In Dominica and Antigua, workshops on food and nutrition planning were conducted. Food economics data were collected in Antigua, Dominica and Belize. Consultants are being recruited to collect and analyze data for food and nutrition planning in Grenada, St. Vincent and Montserrat. Advisory services have been extended to most member countries in the initiation and reorganization of mechanisms for coordinating food and nutrition planning into Food and Nutrition Councils.

A Technical Group Meeting on "Feeding the Weaning Age Group" was held in October 1978. The report on this meeting has been prepared and circulated to member countries.

## 2.2 Prospects of Achieving Project Purpose and Goal

Based on the activities carried out during the first year of the grant and plans for the next two years, there is good reason to believe that the purpose of this project - "to increase the capability of the countries in the English-speaking Caribbean in designing, implementing and evaluating regional and country-specific food and nutrition policies and programs aimed at ameliorating the food and nutrition problems of the target groups in the Region" will be achieved. The goal of improving and sustaining the nutritional status of the target populations and improving food availability and nutrient intake at the household level should also be met.

## 2.3 The Major Problems Encountered to Date include:

(a) The difficulties in recruiting an appropriate person for the post of Applied Nutritionist, who was hired in May 1979. The administrative requirements for obtaining government concurrence on the duty station of the post caused some delay.

(b) Delays in data collection activities in Montserrat, Grenada and St. Vincent by short-term consultants. These were due to volcanic activities in St. Vincent and political activities in Grenada and Dominica (a consultant from Dominica recruited for an assignment in Montserrat was unable to travel).

## 3. EVALUATION METHODOLOGY

This first annual project evaluation was conducted jointly. It is not an impact evaluation. Evaluations at the end of the second and third years will assess the impact of the project in achieving the goal and purpose. The purpose of this evaluation, as defined in the Evaluation Plan of the Project Paper is: ". . . to specifically examine the implementation arrangements with respect to the hiring of personnel and procurement of short-term consultants,

equipment and supplies. The results of the manpower and training needs study and the information services and materials production assessment will be reviewed and CFNI's proposed course of action discussed. The implementation of the first intensive course in project implementation will be reviewed and plans discussed for continuing this course during the next two years of the project. This evaluation will involve the A.I.D. project manager, one other direct-hire A.I.D. employee and CFNI/PAHO staff members."

In addition, in accordance with Implementation Letter No. 2, dated November 14, 1978, CFNI will advise AID of its plans and the results of its efforts in increasing contributions from member countries during the first project evaluation. As specified in the Project Agreement, dated June 1, 1978, CFNI will present AID with a program of activities to be undertaken during the second and third years of the project. Both areas were also covered during the evaluation.

The evaluation was conducted July 2-3, 1979 at CFNI's office in Kingston by a joint CFNI/USAID evaluation team. The meetings were conducted on the basis of a jointly agreed upon agenda. This report, patterned on the agenda, was jointly prepared by CFNI and USAID staff. Participants in the evaluation included:

CFNI

1. Dr. Michael Gurney, Director
2. Dr. Curtis McIntosh, Agricultural Economist
3. Mrs. Effie M. Irvine, Administrative Officer
4. Mrs. Joan Peters, Nutrition Educator

USAID/Jamaica

1. Dr. Linda Haverberg, Chief, Health/Nutrition/Population Division
2. Mr. Gary Cook, Public Health Advisor, II/N/P Division

Regional Development Office/Barbados (AID)

1. Ms. Paula Feeney, Regional Public Health Advisor

#### 4. CHANGES IN PROJECT SETTING

##### 4.1 Priorities of Host Government's

There has been no change in the priorities of the member countries in respect of the program of activities under the project. At the Twelfth Meeting of the Advisory Committee on Policy to CFNI held in St. Lucia in November 1978, member states adopted the planned program of activities for 1979, which incorporates activities as set out in the Project Paper.

##### 4.2 Socio-Economic Conditions

The region has been adversely affected by the quintupling of oil prices since 1972, the decline in sugar prices, increased international competition in bauxite production and generally, a worsening in the terms of trade. These problems result in inflation, including higher food prices, restrictions on food imports and restrictions on imports of inputs needed to increase agricultural production. High unemployment rates are common to most of the region. Performance of the agriculture sector has generally been disappointing. Financial resources in most countries are strained. Beyond this, generalizations are difficult to make owing to the wide diversity in natural resources and differences in economic systems, conditions and government policies.

Economic trends in recent years have been generally favorable in Trinidad and Tobago, an oil-exporting country. Barbados has held its own as a result of a booming tourist industry. However, Jamaica and Guyana have experienced major economic difficulties and a deteriorating economic situation in recent years. The LDC's have generally experienced inadequate economic growth. All these factors have complicated the task of attaining the purpose and goal of the project.

### 4.3 CFNI Resources

#### 4.3.1 Personnel

CFNI now has on staff 13 professionals and 19 supporting staff as compared with 9 and 19, respectively, at the beginning of the project (see Table 1 for professional categorization). A public health nutritionist and an additional support staff member should shortly assume duties.

#### 4.3.2 Financial

CFNI has written to its member states requesting increases in their contributions to the Institute. CFNI's proposal for such increases was set forth in a paper prepared for the Meeting of the Technical and Scientific Committee of the Conference of Ministers Responsible for Health, Barbados, 17-18 April, 1978.\* The proposal is for an increase in the total government grant to CFNI from US\$101,809 (for 1977-1978) to US\$135,746 for 1979 (a one-third increase) with a 10% increase for the two succeeding years (US\$149,323 in 1980 and US\$164,251 in 1981). Many of the countries have responded positively, and some have, in fact, increased their contributions for 1979 (e.g. Barbados, Belize, Cayman Islands, and Suriname). In addition, of the total amount due January 1, 1978 (US\$101,809.20), US\$83,867.55 was actually collected in 1978, leaving a balance of US\$17,941.65 of prior year contributions which are due in 1979.\*\* Bahamas has recently joined CFNI and paid US\$6,000 as its first annual contribution.

CFNI's sources of funding are the same as they were at the start of the project; in addition to the AID grant, funding consists of the annual contributions of the seventeen member countries, PAHO/WHO

resources, and grants from UNICEF and the Ford Foundation. Table 2 sets out these amounts for 1979, 1980 and 1981. UNICEF's support of specific activities is expected to continue next year. The existing Ford Foundation grant expires in January, 1981; CFNI is working on a proposal for a new grant with Ford. A proposal to the European Economic Community for assistance to initiate a Project for the Development of Appropriate Technologies in Nutrition Education for the Caribbean Countries is receiving consideration by the EEC and CARICOM. The proposed 4-year, US\$3.36 million project provides for the construction of a permanent headquarters facility for CFNI in Kingston.\*

#### 4.4 Continuing Validity of Assumptions in Logical Framework

Despite serious economic and other problems in the Region as a whole and in individual countries in particular, the assumptions contained in the logical framework in the original project paper have essentially occurred. This is a reflection of the success of the project since clearly some of the assumptions would not have been borne out in the absence of the project given the problems that have characterized the Region.

## 5. EXAMINATION OF PROJECT INPUTS

### 5.1 Personnel and Consultants

Dr. C. McIntosh and Miss J. Mubi were recruited to fill the posts of Agricultural Economist (Programs and Training) and Applied Nutritionist (Nutrition and Dietetics) in June 1978 and May 1979, respectively. Fourteen persons from the United States and the Caribbean region served as short-term consultants and temporary advisors during the year (see Table 3). In addition, several persons from the University and government ministries assisted by serving as lecturers/discussion leaders in the 3-month intensive course.

### 5.2 Commodities

Table 4 gives the commodity inputs by type and cost for the 1978-1979 program.

### 5.3 Training

In addition to CFNI staff, consultants, temporary advisors\* and lecturers/discussion leaders drawn from the University and other regional institutions were the main training inputs (see Table 3).

### 5.4 Finances

During the first year of the project, \$143,060 was expended and \$107,850 was committed but is as yet unobligated (see Table 5). Both Project Agreements for Fiscal Years 1978 and 1979, for \$350,000 and \$480,000, respectively, and totalling \$830,000, have been obligated.

\* A consultant receives per diem and salary whereas a temporary advisor receives only per diem.

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## 6. PROJECT OUTPUTS - ASSESSMENT OF PROGRESS

### 6.1 Training

#### 6.1.1 In-service Training for DCN Graduates

The difficulty in filling the post of Applied Nutritionist did not permit the in-service training of DCN\* graduates this year. As a result, CFNI plans to conduct two two-week courses each year for the next two years. (The original plan called for one the first year, two the second, and one the third year.) Two DCN graduates, however, participated in the 3-month course in the implementation of food and nutrition programs.

#### 6.1.2. Seminars on Obesity and Diabetes

Two workshops on dietary management of diabetes were conducted in Antigua and St. Lucia.\*\* Approximately 130 participants attended and included: physicians, agricultural information officers, public health nurses, hospital nurses, home economics teachers, family life educators, nutrition officers, nutrition aides and community health aides.

The objectives of the workshop were to:

1. Provide an opportunity/setting for health professionals and other community workers to update their knowledge of diabetes and more particularly the dietary aspects.
2. Develop in the diet counselor the awareness that the diabetic and his family need to assume an active and participating role in his care.
3. Enable the participants to better instruct the diabetic patient in the dietary management of his disease.

\* Diploma in Community Nutrition

\*\* Background Document D

While evaluation questionnaires completed at the end of the workshop indicate that considerable progress was made in meeting the objectives of the workshop, many participants expressed the view that 2 days was too short. CFNI will consider the feasibility of expanding the workshop to 3 days next year.

It would appear that participants found the workshop useful and that they now have a better understanding of the diabetic diet. Participants mentioned that they were particularly pleased with the emphasis on local foods, family involvement and that the patient's eating habits should form the basis for all dietary instruction.

In order to implement this workshop in the remaining 15 member states of CFNI, seven workshops will be held in the second and eight in the third year of the project.

#### 6.1.3 Technical Group Meeting

The Technical Group Meeting on "Feeding the Weaning Age Group" was held in Guyana during October 23-27, 1978.\* The objectives of the meeting were to:

1. Review the problems of feeding the children in the weaning age group in the Caribbean Community.
2. Discuss the alternatives for solving the problems and also the efforts made by Caribbean countries.
3. Set guidelines to determine the specific needs and resources in each and every Caribbean Community as well as the region as a whole so that the most appropriate strategy can be developed to feed weaning age children.

\* Background Document E

The meeting was attended by approximately seventy individuals. Participants were drawn from ten of the countries served by CFNI and also included representatives from PAHO/WHO, UNICEF, WFP, and USAID; consultants from UWI, CARICOM, Meals for Millions Foundation and other Government and private organizations involved in feeding weaning age children; and staff of CFNI.

Available data on the problems of feeding weaning age children, the alternatives available to solve these problems and some of the efforts being made in the Caribbean were presented. The facts and figures regarding feeding weaning age children in different Caribbean countries were also made available.

Additional exposure to the subjects was provided by exhibits and demonstration of some of the available technologies for manufactured weaning foods and family pot feeding.

The following observations were made at the Meeting:

1. No single solution to the problems of feeding weaning age children is feasible. At the individual family level, one may consider feeding a weaning child entirely from the "family pot", entirely from manufactured weaning foods, or by a combination of the two; at the country level, however, a combination of the two approaches must be developed.
2. Weaning foods are needed for all children of weaning age, not only for those that are malnourished. However, such foods should also play a considerable part in the treatment of those 10-12% of children in the Caribbean who are suffering from 2nd and 3rd degree malnutrition and need therapeutic intervention.
3. The concept of feeding the weaning age group should not be considered in isolation but within the framework of the food and nutri-

tion policy of each country, its health care delivery system, its social and political commitment and other national development programs.

4. Governments considering the financial implications of feeding the weaning age group should balance the cost of program support against such social costs of malnutrition as the unwanted loss of young lives, the direct costs to the nation of hospitalizing severely malnourished children, the inability of malnourished individuals to reach their full physical and mental potential and the consequent likelihood of impaired productivity.

The report on this meeting was prepared and circulated to member countries. Follow-on activities are taking place in Trinidad, Jamaica and Guyana. Specifically: 1) In Trinidad, work is proceeding on formula preparation to increase the caloric density of the food, and various vitamin/mineral mixes are being investigated; consideration is also being given to exporting the weaning food; 2) Jamaican colleagues have held several local meetings and workshops to develop a strategy and design an appropriate weaning food; and 3) In Guyana, great strides in production and marketing are being achieved with support from a USAID-assisted grant to the Government of Guyana. In addition, CFNI staff are in the process of developing teaching materials for use in the Region based on the multimix principle of family pot feeding.

#### 6.1.4 Intensive Course in Project Implementation

The course was conducted during March 14 - June 8 1979 with the eight participants representing seven member countries, namely, Antigua,

Barbados, Guyana, Belize, St. Lucia, Dominica, St. Kitts/Nevis/Anguilla. The course was conducted along guidelines prepared with the assistance of a short-term consultant in management.\*

The overall objective of the course was to develop the technical and management skills of middle-level personnel with respect to the planning, implementation and evaluation of food and nutrition projects and programs. More specifically, the program was designed to achieve the following objectives:

- (i) To sensitize participants to the food and nutrition problems of the Region.
- (ii) To introduce participants to the food and nutrition policies and programs developed by different Caribbean Governments and so afford an opportunity to survey comparative approaches to food and nutrition problems.
- (iii) To enable participants to appreciate the importance of food and nutrition data in program planning and implementation.
- (iv) To allow participants to develop an understanding of the importance and use of management tools in program development and implementation.
- (v) To enable participants to acquire management skills and demonstrate their ability to use such skills for the planning, implementation and evaluation of food and nutrition projects.

Twelve themes were covered during the classroom exercises. These included:

1. National Development Planning and Food and Nutrition Policies.
2. Nutrition, Dietetics and Food Economics.

\* Background Documents F & G

3. Assessment of the Food and Nutrition Situation.
4. Review of Food and Nutrition Policies and Programs.
5. Communication in Nutrition Intervention Programs.
6. Management and Its Environment.
7. Strategies for Effective Management.
8. Accounting and Budgetary Issues.
9. Program Management Tools.
10. Personnel Management.
11. Issues in Food Supply and Distribution.
12. Research Methodology and Report Preparation.

The course was structured as follows: four weeks of classroom instruction in Kingston, followed by three weeks of classroom instruction in Trinidad, followed by a four-week field assignment and then one week in Trinidad. Classroom exercises were also supported by field trips. Field assignments were conducted in five different countries, with each student spending one full month on a specific project in one country (see Table 6).

All participants were very satisfied with the subject matter covered in the course. On the scale, excellent = 4, good = 3, fair = 2 and poor = 1, participants rated session leaders' overall performance from 2.6 to 4.0. For the 20 sessions, 3 were in the range less than 3.0; 4 were in the range 3.0 - 3.5; and 13 were above 3.5. The participants rated the field work as moderately to very useful.

The course participants will have ample opportunity to apply their new knowledge and skills. CFNI plans to call on these participants, who are now back in their country of origin, to assist in a variety of activities which will take place in their country. For example, the participant from St. Lucia has been asked to work with CFNI staff in implementing a

nutrition education workshop in that country. Similarly, arrangements are being made to involve the participant from Antigua in food and nutrition policy and programming activities in his country.

On the basis of the first year's experience with the course, CFNI has proposed that the second course in the implementation of food and nutrition programs be conducted essentially along the same lines as the first with the following modifications:

- (a) One three-month course for fifteen to twenty participants each year rather than two three-month courses for six to eight participants each per year should be conducted.
- (b) The course should preferably be held during the summer (June, July, August) when accommodation at University residence halls would be readily available.
- (c) In order to improve staff/participants contact during the field phase of the course, field assignments should be undertaken at the location of the centers of CFNI (Jamaica and Trinidad) or provision should be made to ensure that supervisors are available in the country chosen as the field site. Participants should be assigned to country projects in numbers and locations which facilitate adequate supervision.
- (d) Applications for fellowships should be invited at least nine months in advance of the course starting date. Efforts will be made to encourage participants especially from the LDCs in the Region.

CFNI will submit the final report on this year's course to USAID by September 30, 1979.

## 6.2 Study on Manpower and Training Needs

The study was undertaken during January to March 1979. The objectives of the study were as follows:

- (a) To obtain a picture of food and nutrition activities in each country, to ascertain plans for expansion or change of existing programs and for implementation of new programs.
- (b) To ascertain the type and number of middle-level personnel in each country and the kind of functions they are performing.
- (c) To determine the academic background of trained middle-level personnel in each country and the kind of functions they are performing.
- (d) To determine the type of training in food and nutrition necessary to enable middle-level personnel to function effectively in food and nutrition and related activities within the Region.
- (e) To identify institutions within the Region where relevant training courses could be carried out.

All but two member countries served by CFNI were visited by at least one of the consultants. Scheduling problems prevented visits to the two countries.

The report is in its final stages of completion. The following general recommendations were suggested in the draft report:\*

1. CFNI should continue and, if possible, expand its activities in the field of education and training in the Region.
2. In view of the facilities now available in some of the More Developed Countries in the Region for middle-level training in food and nutrition, it does not seem either feasible or prudent at the present time for CFNI to establish any program of study on a permanent basis.

\* The final report will contain more specific recommendations on individual training activities.

3. CFNI should continue to work in education and training by addressing itself to matters such as:
  - (a) establishing links with regional and/or national institutions concerned with middle-level training in food and nutrition;
  - (b) providing or assisting in obtaining technical expertise and guidance for planning and structuring programs where such needs exist;
  - (c) providing or assisting in obtaining technical expertise necessary for preparation, testing and evaluation of the wide range of educational materials (manuals, guides, booklets, visual and audio-visual aids) for use in teaching-learning situations, school feeding programs and community nutrition projects.
  - (d) organizing and conducting a continuous series of in-service courses, seminars and/or workshops for personnel involved in nutrition education in the various sectors;
  - (e) exploring the possibility of making use of existing training facilities in the Lesser Developed Countries of the Region, thereby enabling a larger number of middle-level personnel to receive training on an ongoing basis.
  
4. CFNI should take advantage of the proposed introduction of the new Caribbean Examinations Council Syllabus in Home Economics in the Region by considering the possibility of devising a program of training aimed at updating knowledge and skills of food and nutrition teachers.

CFNI is in the process of reviewing the consultants' report and will provide USAID with a final copy of the report and CFNI's plan of action including both a long-term and short-term training strategy by September 30, 1979. On the basis of the report, CFNI staff are also reviewing current efforts and future plans in nutrition education.

6.3 Progress in Production and Dissemination of Educational Materials

Two consultants assisted CFNI in this area during November of 1978.\* The consultant in Information Services/Printing served for the two week period November 6-18, while the Library Services Consultant was on hand from November 6-11. The terms of reference for the consultant in information services/printing were to:

1. Evaluate the format and content of the educational materials produced by CFNI, including also their distribution channels. This should include an assessment of the appropriateness and effectiveness of the current audio-visuals and publications in meeting the Region's needs in relation to the Institute's objectives.
2. Examine the technical aspects of the existing CFNI printing operation to identify potential problem areas; offer recommendations to solve existing problems; assess utilization of current equipment, staff, and facilities; recommend procedures to make the operation run more smoothly and productively.
3. Provide recommendations, where necessary, for additional equipment and staff for the expansion of the printing facility and audio-visual services. The Advisor would work closely with the Library Advisor to make suggestions for improving the total information services function of CFNI.

\* Background Document H

The terms of reference of the consultant in library services were to provide technical and advisory assistance in:

1. The management of library collections (books, audio-visual media, serials, pamphlets, etc.):
  - (a) collection, processing and distribution;
  - (b) selection, acquisition and cancellation of serials;
  - (c) budget allocations;
  - (d) acquisitions planning; discard planning, policies;
  - (e) development and expansion of the collection;
  - (f) bibliographic control.
2. Delivery of services:
  - (a) information storage, retrieval and dissemination, documentation;
  - (b) outreach and co-operative programs - resource sharing;
  - (c) circulation control.
3. Architectural and manpower considerations for future planning:
  - (a) space allocation;
  - (b) furniture, equipment and facilities;
  - (c) deployment of staff.

Recommendations included redesign of the printing plant, new equipment and changes in the printing procedures. A storage room for paper stocks has been completed and will give some small relief to the current congestion. Mobile carts for transferring and storing printed pages and publications are on order. A new press has been ordered and should arrive soon. Rearrangement of the printing room will be completed after the arrival of this equipment. New library equipment is

beginning to arrive and shelving construction has been requested.

Job descriptions for the Media/Officer/Editor and the Librarian have been revised in light of the consultants' recommendations. Mailing lists have been revised and computerized, reducing manhours required to mail out *Cajanus* and other periodic publications. The Printer is currently receiving instruction at the UWI Printing School and a secretary is receiving inservice training by CFNI staff to assist in layout and preparation of manuscripts. Smocks have been obtained to protect workers' clothing.

Tables 7 and 8 provide a breakdown of the educational materials produced and the equipment/supplies ordered, respectively, during the first year of the project. Tables 9 and 10 provide the priority listing of educational materials to be produced and the equipment to be ordered, respectively, during the second year of the project. Shortages of inks and paper stocks in Jamaica have made it increasingly difficult to have large special printing orders carried out within country.

#### 6.4 Development of Food and Nutrition Policies

Table 11 gives the country standings as of May 31, 1979 in the development and implementation of food and nutrition policies and programs. Progress is measured against standings as of December, 1977.

The following specific consultant activities were undertaken:

- |          |   |   |
|----------|---|---|
| Antigua  | - | Food economics data collected and analyzed.                                       |
|          | - | Reorganization of National Nutrition Committee into a Food and Nutrition Council. |
|          | - | Seminar on Food and Nutrition Planning.   |
| Barbados | - | Development of a Food and Nutrition Council.                                      |
| Dominica | - | Food economics data collected and analyzed.                                       |

- Seminar in Food and Nutrition Planning.
- Grenada - Development of a Food and Nutrition Council.
- Montserrat - Development of a Food and Nutrition Council.
- St. Kitts/  
Nevis/  
Anguilla - Development of a food and nutrition surveillance system.
- Belize - Design and development of agriculture sector programs and projects to improve food and nutrition status. \*
- Trinidad &  
Tobago - Review of projects and programs.

On the basis of the first year's activities, it became clear that four-week assignments by short-term consultants and one-week visits by CFNI staff with local counterparts in activities relating to the development of food and nutrition policies are not sufficient. As a result, next year, consultant assignments will be scheduled to last for 6-8 weeks and CFNI staff will make every effort to extend their visits in individual countries, if necessary, when dealing with activities in this area.

## 7. BENEFICIARIES

The direct beneficiaries of this project are the individuals at all functional levels of nutrition planning and program implementation in the Caribbean Region, from senior level policy decision-makers to middle level program planners to community-based professionals and para-professionals. Those individuals who directly benefited from the project during the first year include the 130 participants from St. Lucia and Antigua who attended the seminars on diabetes and obesity; the 70 participants at the technical group meeting on "Feeding the Weaning Age Group"; and the 8 participants in the intensive course in project implementation. This group consists of phy-

sicians, agricultural information officers, public health and hospital nurses, home economics teachers, family life educators, community development officers, nutrition officers and aides, and community health aides. A wider audience of individuals at all functional levels of nutrition planning and program implementation in all member countries in the Region benefited from the educational materials that were produced and disseminated during the first year of the project. Nutrition planners and programmers in those countries which received technical assistance from short-term consultants and CFNI staff in the development of food and nutrition plans and programs during the first year of the project also received benefits under the project. These same individuals in all countries of the Region (except Dominica and Turks and Caicos Islands) received technical assistance in manpower development and training needs assessment from the consultants who worked in this area during the first year of the project.

The ultimate beneficiaries of the project activities are preschool and school-age children, pregnant and nursing women and obese/diabetic adult women in all member countries of CFNI. Although this first evaluation was not designed to measure the impact of the project on these beneficiaries, it can be said that this group benefited from the existence of a better trained and better informed cadre of professionals involved in nutrition planning and programming and from the educational materials which were produced and disseminated under the project. An attempt will be made to measure the impact of the project activities on this group during the second and third year evaluations.

8. UNPLANNED EFFECTS/UNANTICIPATED RESULTS

None.

9. RECOMMENDED CHANGES

Tables 12 and 13 contain a revised financial plan and a revised implementation plan, respectively, which were developed jointly as a result of the evaluation.

9.1 Financial Plan

As shown in Table 12, an additional US\$255,000 will be required to carry out the activities deemed necessary to achieve the project purpose and goal. The increases are primarily for expenditures in three categories: 1) consultants; 2) training; and 3) educational materials production. They reflect the following decisions:

- (a) That in-country short-term consultant assignments relating to food and nutrition policy and program development should be 6-8 weeks rather than 4 weeks and that CFNI staff visits on such matters should be longer than 1 week, where appropriate.
- (b) That one or more short-term consultants or temporary advisors should assist in the intensive 3-month course in implementation, especially during the field phase to ensure adequate supervision of participants engaged in fieldwork.
- (c) That one 3-month course for 15-20 participants per year rather than two 3-month courses each year for 6 participants each should be undertaken. This means that instead of the original plan of training 30 participants, 38-48 will be trained.

The increased training costs also reflect: a) increased per diem and tuition rates; and b) travel funds for supervisors of participants in the 3-month intensive course and for the participants themselves to travel from their home country, to Kingston, to St. Augustine, to the country of their field project, back to St. Augustine and then home. Original plans did not include travel to the St. Augustine campus.

The major increase is in the area of educational materials production. A budget was prepared for this component in the absence of the consultants' assessment of needs. As a consequence, the \$80,000 originally planned to

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meet CFNI's needs in this area over the three years life of project was found to be grossly inadequate. In addition, printing costs have substantially increased in Jamaica during the last year, and, because of the non-availability of various supplies, CFNI has had to place orders from the States at higher cost.

## 9.2 Implementation Plan

Table 13 presents the projected implementation schedule of activities for 1979/80 and 1980/1981 under the project. The activities include:

- (a) 2 two-week in-service DCN (Diploma in Community Nutrition) graduates refresher courses per year, one in the fall and one in the spring of each year.
- (b) 4 more TGM's (Technical Group Meetings) as follows:
  - i) October 1979 - Dietary Management of Nutritional Disease
  - ii) June 1980 - The Role of the Nutritionist and Dietician in Food and Nutrition Policy and Programming
  - iii) September/  
October 1980 - The Regional Food Plan
  - iv) May/June 1981 - Experiences in Food and Nutrition Planning.
- (c) 7 two-day (or three-day) seminars in diabetes and obesity in the second year of the project and 8 seminars in the third year of the project or one each in the remaining 15 member governments of CFNI which have yet to host this seminar.
- (d) 1 three-month intensive course for 15 participants in June, July, and August for each of the next two years under the project.
- (e) Activities in the Development of Food and Nutrition Policies over the next year include:
  - 1) St. Vincent - food and nutrition data collection; development of a food and nutrition council

- ii) Grenada - examination of the agricultural sector in terms of food availability, imports and local production and how to increase self-sufficiency in production.
- possible seminar arising from above
  - development of programs based on above analysis and/or seminar.
- iii) Dominica - development of projects
- iv) Antigua - development of policy
- v) St. Kitts - development of policy
- vi) Montserrat - Food and nutrition data collection in preparation for food and nutrition planning activities.
- vii) Regional activities in preparation for the TCM on the Regional Food Plan in the fall of 1980.

### 9.3 Other Revisions/Recommendations

(a) Given the administrative requirements involved in obtaining concurrence from governments and institutions, decision-making regarding programs should be undertaken well in advance of the proposed date for implementing the program.

(b) Joint project evaluations will be held in September/October, 1980 and 1981 to take into account the revised implementation schedule for the 3-month intensive course which will now be held in June/July/August of each year.

(c) In view of (b) above, the Project Assistance Completion Date (PACD) will be extended from 5/31/81 to 12/31/81.

(d) Next year's project evaluation will involve up to two representatives from member governments of CESA as well as CESA/PAU and USAID.

staff and may involve site visits to several countries to view on-going activities. CFNI and USAID staff will collaborate in making arrangements for the next joint evaluation.

(e) CFNI will submit to USAID by September 30, 1979 a copy of the final report of the 3-month intensive course held in 1979 and a copy of the final report on the Manpower and Training Needs Assessment with CFNI's plan of action including a long-term and short-term training strategy.

(f) CFNI will consider the feasibility of expanding from 2 days to 3 days the seminars in diabetes and obesity to be conducted in each member country during the next two years of the project.

(g) CFNI will continue to place emphasis, to the extent possible, on recruiting participants from and undertaking field activities in the Lesser Developed Countries of the Region.

(h) CFNI will investigate funding sources for advanced (long-term) training in nutrition for middle managers, which was identified as one of the areas of need during the manpower and training needs assessment.

LIST OF BACKGROUND DOCUMENTS \*

<u>NO.</u>	<u>TITLE</u>	<u>No. of Pages</u>
A	Proposal Regarding Contribution of Member Governments to the Caribbean Food & Nutrition Institute	20
B	Statement of Quota Contributions due from Member Governments for the 1978 Budget and Prior Years.	3
C	Preliminary Proposal to the European Economic Community	13
D	CFNI Workshops on Dietary Management of Diabetes Mellitus	175
E	Feeding the Weaning Age Group - Guidelines for the Caribbean	26
F	Report on Development of an Intensive Three-Month Training Course on the Implementation of Food and Nutrition Programs for Middle-Level Personnel	28
G	Guidelines for a Three-Month Intensive Training Course on the Implementation of Food and Nutrition Programs for Middle-Level Personnel	31
H	Report on CFNI Library and Information Services	36
I	Draft: Programs and Projects for Improving the Belize Food and Nutrition Situation with Particular Reference to the Agricultural Sector	60

\* These are available upon request from the Caribbean Food and Nutrition Institute, Kingston, Jamaica.

TABLE 1.

CFNI STAFF BREAKDOWN

<u>PROFESSIONAL STAFF</u>	<u>AS OF MAY 1978</u>	<u>AS OF JUNE 1979</u>
Medical Nutritionist	2	3
Public Health Nutritionist	3	3
Systems Analyst	1	1
Media Officer	1	1
Agricultural Economist	2	2
Applied Nutritionist	-	1
Nutrition Educator	-	1
Administrative Officer	-	1
	<hr/>	<hr/>
TOTAL	9	13

ADMINISTRATIVE SUPPORT STAFF

Principal Assistant	1*	-
Administrative Assistants	2	3
Secretaries	10	10**
Librarian	1	1
Printer	1	1
Assistant Printer	1	1
Office Attendant	1	1
Drivers	2	2
	<hr/>	<hr/>
TOTAL	19	19

\* Incumbent promoted to Administrative Officer.

\*\* An additional post, currently vacant, when filled, will bring the total of secretaries to 11.

TABLE 2.

SOURCES OF FUNDING OF CFNI:

1978 - 1981

<u>SOURCE OF FUNDS</u>	<u>ESTIMATED</u>			
	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
PAHO/WHO	412,700	455,200	490,100	530,100
Government Contri- butions <sup>1</sup>	101,809	135,746	149,323	164,251
USAID <sup>1</sup>	124,980	402,739	553,018	276,210
UNICEF <sup>2</sup>	57,818	120,669	?	?
Ford Foundation <sup>3</sup>	61,500	50,000	20,000	?

1 Includes recommended increases

2 Funding for 1980 and 1981 is not confirmed

3 Funding beyond January 1981 is not confirmed

TABLE 3.

Staff and Consultants Financed Under the CFNI/USAIDProject: June 1, 1978 - May 31, 1979

<u>Name</u>	<u>Title</u>	<u>Assignment</u>
<u>STAFF:</u>		
Dr. C. McIntosh	Agricultural Economist	Programs & Training
Miss J. Mubi	Applied Nutritionist	Nutrition & Dietetics
Miss W. Williams	Administrative Asst.	Meetings & Conferences
Miss J. Chase	Secretary	Secretarial Services
<u>CONSULTANTS:</u>		
Mrs. L. Lopez	Temporary Advisor	Dietary Management of Diabetes (St. Lucia)
Mrs. A. White	" "	Dietary Management of Diabetes (Antigua)
Mr. J. Johnson	Short-term Consultant	Food & Nutrition Programs
Miss E. Warner &	Short-term Consultants	Manpower & Training Needs
Dr. S. Reddy		
Mr. G. Draper	Temporary Advisor	Development of 3-month Course Guidelines
Mr. G. Draper	Short-term Consultant	Conduct of 3-month Course
Dr. G. Patterson	Temporary Advisor	TGM on Feeding the Wean- ing Age Group
Mrs. V. Campbell	" "	" "
Dr. Hugh Roberts	" "	" "
Dr. George Sammy	" "	" "
Dr. Leslie Chin	" "	" "
Dr. John Anderson	" "	" "
Prof. Paul Gwin &	Short-term Consultants	Information Services and Materials Production
Mrs. Sherry Gwin		

TABLE 4. EXPENDITURES ON EQUIPMENT/SUPPLIES FOR THE PERIOD

1 JUNE 1978 - 31 MAY 1979 (IN US\$)

EQUIPMENT

Developer Sink	1,363.00	
Davidson Press	13,213.00	
Stock Carts	500.00	
Hand Truck	36.00	
Timer	53.00	
Card Catalogue Cabinets	295.00	
Library Supplies	246.00	
Shelving	<u>1,164.00</u>	16,870.00

SUPPLIES

Paper	6,634.88	
Duplicating Paper and Supplies	568.49	
Artwork for TGM * on Weaning Foods	146.65	
Artwork for Diabetic Seminars	63.12	
Printing Supplies	557.31	
Materials Shipments for Diabetics Workshop	<u>220.19</u>	8,190.64

Supplies for TGM and Seminars	16,065.30	
Supplies for Workshops	<u>1,758.54</u>	<u>17,823.84</u>
		US\$ 42,884.48
		=====

\* Technical Group Meeting

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TABLE 5. STATEMENT OF EXPENDITURES FOR THE PERIOD  
1 JUNE 1978 - 31 MAY 1979 (IN U.S.\$)

I. <u>PERSONNEL/TRAVEL:</u>			
A.	<u>Curtis E. McIntosh</u>		
	Salary Jun '78 - May '79	34,312.00	
	Duty Travel Oct. '78	478.00	
	January 1979	417.83	
	Other expenses	<u>28.60</u>	35,236.43
B.	<u>William Winsome</u>		
	Salary Dec. '78 - May '79	3,590.97	
	Duty Travel	<u>1,904.21</u>	5,495.18
C.	<u>Janice A. Chase</u>		
	Salary March '79 - May '79		<u>2,134.16</u>
			42,865.77
II. <u>CONSULTANTS</u>			
A.	<u>G. Patterson</u>		
	Per diem 18-29 Oct. '78	780.00	
	Travel	301.40	
	Other expenses	<u>86.59</u>	1,167.99
B.	<u>V. Campbell</u>		
	Per diem 22-28 Oct. '78	455.00	
	Travel	301.40	
	Other expenses	<u>52.31</u>	808.71
C.	<u>Sherry Gwin</u>		
	Travel		369.38
D.	<u>Paul Gwin</u>		
	Travel		369.38
E.	<u>Loretta Lopez</u>		
	Per diem 12-18 Nov. '78	455.00	
	Travel	<u>96.25</u>	551.25
F.	<u>S. Reddy</u>		
	Salary 8 Jan - 7 Mar '79	2,448.00	
	Travel and per diem	<u>2,428.67</u>	4,876.67

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G.	<u>G. Draper</u> Per diem 18 Dec. '78. - 3 Jan '79		467.50	
H.	<u>E. Warner</u> Salary 17 Jan - 16 Mar '79		2,448.00	
I.	<u>J. Johnson</u> Travel Medical Exam.	346.50 <u>42.86</u>	389.36	
J.	<u>A. White</u> Per diem 26 Feb. - 1 Mar '79		<u>260.00</u>	11,708.24

III. TRAINING:

A.	<u>Diabetes/Obesity Seminar</u>  Barbados: 79 Participants for 2 days Various Seminar exps.	1,480.00 <u>396.02</u>	1,876.02	
	Antigua: 31 Participants for 2 days: Seminar Supplies	620.00 <u>217.50</u>	837.50	
B.	<u>Technical Group Meetings</u>  Feeding the Weaning Age Group in Guyana		17,493.23	
C.	<u>Seminar on Food &amp; Nutrition Planning</u>  Dominica		1,080.00	
D.	<u>Course in Implementation of Food &amp; Nutrition Program</u>  <u>E. Dyer</u> Stipend Travel	1,654.39 <u>108.96</u>	1,763.35	
	<u>C. Samuel</u> Stipend Travel	1,304.39 <u>131.90</u>	1,436.29	

<u>M. Mynns</u>			
Stipend	1,304.39		
Travel	<u>95.77</u>	1,400.16	
<u>D. Rawlins</u>			
Stipend	1,350.69		
Travel	<u>264.95</u>	1,615.64	
<u>S. Middleton</u>			
Stipend	1,648.42		
Travel	<u>108.96</u>	1,757.38	
<u>S. Dowding</u>			
Stipend		1,227.02	
<u>S. Manning</u>			
Stipend		440.00	
<u>L. J. Blaize</u>			
Stipend	2,265.71		
Travel	<u>113.56</u>	<u>2,379.27</u>	33,305.86
IV. <u>EDUCATIONAL MATERIALS PRODUCTION:</u>			
A. Seminar Supplies		16,065.30	
B. Workshop Supplies		1,758.54	
C. Project Supplies		<u>3,277.31</u>	21,101.15
<u>SUB-TOTAL: EXPENDITURES</u>			108,981.02
<u>Program Support Costs - 31.0%</u>		34,078.85	
<u>TOTAL EXPENDITURES</u>			143,059.87
V. <u>UNLIQUIDATED OBLIGATIONS:</u>			
A. Personnel and Travel	10,315.50		
B. Short-Term Consultants	25,632.21		
C. Training	24,596.99		
D. Supplies & Material	<u>21,783.17</u>		
Total Unliquidated Obligations		82,327.87	
Program Support Cost - 31.0%		<u>25,521.64</u>	<u>107,849.51</u>
TOTAL EXPENDITURES & UNLIQUIDATED OBLIGATIONS AS OF 31 MAY 1979			<u>250,909.38</u>

TABLE 6. FIELD PROJECTS OF PARTICIPANTS IN THE THREE-MONTH INTENSIVE COURSE IN THE IMPLEMENTATION OF FOOD & NUTRITION PROGRAMS

Name	Country of Origin	Country of Project	Project Title
Lucia J. Blaize	Dominica	Barbados	Barbados 4H Clubs Home Economics Program
Elaine Dyer	Antigua	Barbados	Nutrition Education for Pregnant and Lactating Women: Implications for Antigua
Sonia Middleton	Belize	Barbados	Design and Organization: Community Nutrition Education in Belize for the Age Group 15-45 Years
Carlton L. Samuel	Antigua	Antigua	Improving Household Food Availability: An Evaluation of the Systems of Storage, Processing and Distribution of Food Crops in Antigua
David L. Rawlins	Barbados	St. Kitts-Nevis	The Nutrition Education Program in St. Kitts-Nevis
Maggie Mynns	St. Lucia	St. Lucia	An Evaluation of the Nutrition-Aide Program in Selected Communities in St. Lucia
Sylvia Manning	St. Kitts	Trinidad	A Continuous Monitoring System of Food Availability in Trinidad and Tobago
Samuel Dowding	Guyana	Trinidad	A Comment on Data Collection and Analysis for Food and Nutrition Planning in Trinidad and Tobago

TABLE 7. EDUCATIONAL MATERIALS PRODUCED BY CFNI - 1978-79  
(First Year USAID Project)

I. PRINTED MATERIALS

A. BOOKS

1. Reports of CFNI Seminars and Workshops	
Proceedings TGM Food and Nutrition Councils **	200
Proceedings TGM Weaning Foods **	500
2. Guidelines/curricula for program development	
Guidelines for Food and Nutrition Councils **	200
Guidelines for Feeding Weaning Age **	500
Guidelines for Mass Media in Nutrition Education	200
3. Instructional Manuals/Directories	
Institutional Food Service Manual	2,500
Mass Media Resource Directory	200
RDA's for Caribbean (Rev.)	2,500
4. Tables/Statistics	
Nutrient Cost Tables (quarterly)	2,000
5. Other	
Food Services in Jamaica (study)	200
Operational Model, F & N Planning **	200
F & N Policy for Belize **	200
Course Syllabus: Implementation of F & N Policy **	25
Consultants' Report **	25

B. PAMPHLETS/FOLDERS

1. Leaflets/Flyers (see contents educational package)
2. Readers/comics/books (see contents educational package)

3. Reprints	
Uniqueness of Human Milk	1,000
Guidelines/Young Child Feeding	2,500
Modern Management of Breastfeeding	1,000
How Breastfeeding Really Works	1,000
Understanding Diabetes **	1,000
C. <u>PERIODICALS</u>	
1. News releases **	12
2. News Features	
Nutrition Made Simple **	32
Nutrition Question and Answer **	32
3. Cajanus	
4 issues (average run)	2,000
D. <u>MISCELLANEOUS Mimeo</u>	
Pilot materials for Nutrition Education Workshops **	
- Steps in Use of Mass Media	500
- Planning a Nutrition Exhibit	200
- Guide to Nutrition Education Program Plans	500
- Foodways ... What Affects Habits	200
- How well do you eat?	100
- How do I feel about food?	200
- Nutrition Education Evaluation form	200

\*\* Materials used in direct support of AID-funded activities.

TABLE 8. EQUIPMENT FOR CFNI LIBRARY AND PRINTING UNIT \*  
 (First Year USAID Project)

<u>ITEMS</u>	<u>ESTIMATED COST (in US\$)</u>
Davidson Press	13,213
Hand Truck (Lifting)	36
Stock Carts - 2 @ 250 ea	500
Timer	53
Developing Sink	1,363
Library Miscellaneous	246
Files, Pamphlets	295
Shelves	1,164
	<hr/>
TOTAL	16,870
	*****

\* Following Gwin Report (consultants to CFNI)

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TABLE 9. EDUCATIONAL MATERIALS FOR SUPPORT OF PROGRAMS  
(Priority Listing For Second Year of USAID Project)

<u>Item</u>	<u>Number</u>	<u>Estimated Cost</u> (in U.S.\$)	
1. Meal Planning for Diabetics	50,000	13,000	13,000
2. Materials for TGM Dietary Management of Nutrition-Related Diseases			
Diet Manual (looseleaf, special stock, etc. for hospital use)	1,000	3,000	3,000
3. Weaning Foods teaching Package			
Poster	5,000	2,000	
Printed Folders with Pockets	5,000	3,000	
Fact Sheets (4)	20,000	5,000	
Flip Charts (set of line drawings)	5,000	5,000	
Teaching Guide/background notes	5,000	5,000	
Teaching Tool (for multimix concept)	10,000	<u>5,000</u>	25,000
4. Weaning Food Exhibit (Prototype) (Photos, portable display panels, lettering and reproduction)	24	1,500	1,500
5. Diabetes teaching aids (Posters, flip charts, portion models)	2,000 sets	5,000	5,000
6. NYAM NEWS Packets (12 monthly packets x 300)	3,600	1,000	
7. Nutrition Notes: Fact-sheets to update professionals (series of 12, 1000 each)	12,000	800	
8. Nutrition Education Workshop Materials			
Posters, artwork		300	
Handout materials, 6 leaflets, 2000 each	12,000	<u>1,200</u>	3,300
		<b>TOTAL</b>	<b>51,300</b>

TABLE 10. EQUIPMENT FOR CFNT LIBRARY & PRINTING UNIT \*  
(Priority Listing for Second Year of USAID Project)

<u>ITEMS</u>	<u>ESTIMATED COST (in US\$)</u>
Mobile Stock Carts 2 @ 105.00 ea	210.00
Plate Storage Cabinets	400.00
Library Shelving	820.00
Line-up, Light Table	1,000.00
Duplicating Machine (stencil) Gestetner 460	1,200.00
Electronic Stencil Maker Gestetner 473	5,000.00
Folder ) Stapler ) Collator) 1 Unit Jogger )	16,500.00
Typesetter: IBM Composer	16,000.00
	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/>
	41,130.00
Contingency	4,113.00
	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/>
<u>TOTAL</u>	45,243.00
	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/>

\* Following Gwin Report (consultants to CFNI)



TABLE 12.

REVISED SUMMARY COST ESTIMATES AND FINANCIAL PLAN (in US\$)

TYPE OF EXPENDITURE	YEAR I (ACTUAL)	YEAR II (ESTIMATED)	YEAR III (ESTIMATED)	TOTAL (ALL YEARS ESTIMATED)	TOTAL (ORIGINALLY PLANNED)	DIFFERENCE IN TOTALS
PERSONNEL	43,819	98,000	105,000	246,819	270,000	- 23,181
TRAVEL	9,363	20,000	25,000	54,363	48,000	+ 6,363
CONSULTANTS	37,340	57,000	64,500	158,840	102,600	+ 56,240
TRAINING	57,903	146,000	164,000	367,903	301,400	+ 66,503
EDUCATIONAL MATERIALS PRODUCTION	42,884	100,000	60,000	202,884	80,000	+ 122,884
41 SUB-TOTAL	191,309	421,000	418,500	1,030,809	802,000	+ 228,809
PROGRAM SUPPORT COSTS <sup>1</sup>	59,601	132,615	133,920	326,136	248,700	+ 77,436
INFLATION/CONTINGENCY <sup>2</sup>	-	-	-	-	51,500	- 51,500
GRAND TOTAL	250,910	553,615	552,420	1,356,945	1,102,200	(+ 254,745)

1 PAHO overhead = 31.0% in 1978/79; 31.5% in 1979/80; estimated at 32.0% in 1980/81.

2 For years I, II, and III and total (all years estimated), inflation is factored into the individual types of expenditures, rather than reflecting it as one figure.



AS OF 3/31/79

\$(000)

Projects (\$ Funded Grants)	Project No.	Obligated	Sub-Obligated	Unsub-Obligated	Planned Exp. to 6/30/79	Expenditures		Unexpended Balance
						Disbursed	Accrued	
Tech. & Feasibility Studies	265-0013	14,973			14,973			
1- Host Country Contracts			13,512			12,276	601	635
2- AID Direct Contracts			1,438			1,404	34	-0-
3- Other Costs			23			21	2	-0-
Unsubobligated				-0-				-0-
<b>Total Project</b>		<b>14,973</b>	<b>14,973</b>	<b>-0-</b>	<b>14,973</b>	<b>13,701</b>	<b>637</b>	<b>635</b>
Strengthening Rural Health Delivery	263-0015	1,800			2,361			
Amendment # 2		1,800						
Amendment # 3		4,200						
1- Westinghouse			983			230	99	654
2- Ambulances			1,222			1,209	13	-0-
3- Other			32			23	9	-0-
4- Commodities (Med. Sets)			232			-0-	8	224
Unsubobligated				5,331				5,331
<b>Total Project</b>		<b>7,800</b>	<b>2,469</b>	<b>5,331</b>	<b>2,361</b>	<b>1,462</b>	<b>129</b>	<b>6,209</b>
Applied Science & Tech. Research	265-0016	3,900			2,776			
Amendment # 1		4,200						
1- National Academy of Science			1,221			59	169	993
2- NSF/ASRT			1,102			-0-	200	902
3- NSF/STI			922			-0-	100	822
4- AACC Equipment			2,100			27	473	1,600
5- Others			58			43	7	8
Unsubobligated				2,697				2,697
<b>Total Project</b>		<b>8,100</b>	<b>5,403</b>	<b>2,697</b>	<b>2,776</b>	<b>129</b>	<b>949</b>	<b>7,022</b>

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