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CONTRACT AID/NE-C-1477

REPORT OF PROJECT ACTIVITIES
IN AZORES AND LISBON

March 28 - April 10, 1981

By

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May 15, 1981

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SCHEDULE IN AZORES MARCH 28 - April 10

Dr. Donald E. McCreight

- March 27 Departed Boston
- March 28 Arrival Azores (Terceira) - Directly to Horta, Faial -
Meetings with Director of Rural Extension Eng^o Silva
Duarte and Eng^a Raquel Costa e Silva, Director of Home
Economics Extension
- March 29 Meetings with Extensionists, individual and small
group informal discussion concerning current programs
- March 30 Meeting with 15 Extensionists
- March 31 Identification and Discussion of problems concerning
Extension Tasks
- Meeting with Regional Secretary of Agriculture and
Fisheries, Adolfo Lima.
Discussions centered around the following topics:
- Progress of Extensionists
- Development of linkages with other services and
the University
- Need for technical assistance to train individuals
in Dairy Cattle Selection
- Observation of URI Fisheries programs during
October U.S. trip to National Dairy Congress in
Wisconsin
- Future Extension Activities
- April 1 Identification of possible linkages for Extension
programs (See attached list)
- P.M. Meeting with Dr. Frederico Machado, Director of
Fisheries and Oceanography University of Azores
- April 2 Identification of problems for each island and devel-
opment of possible Rural Extension Programs. Con-
tinued preview of films for possible use
- April 3 Identification of future Extension Activities
- Discussion of future project to extend small scale
food production systems to Artisanal Fisheries
villages. 17 possible villages were identified
- Discussion of the development of youth programs
within Rural Extension
- Discussion of plans for proposed youth Exchange
program for 1981 and 1982

April 4 Travel to Terceira
Conducted brief meetings with the following individuals:
- Dr. Young do Amaral - Director Agricultural Science program, University of Azores
- Eng. Antonio Carvão

April 5 Free

April 6 Meetings at the University of Azores with the following individuals:
- Dr. Young do Amaral

Discussion concerning:

- Continuation of training programs for the following
 - Anabela Gomes
 - Carlos Gradil
 - Jorge Pinheiro

- Construction of Greenhouses
Assistance of AID Construction workers
Technical Assistance needed through project
Estimated time requirement of 4-6 weeks.

After construction, there may be a need for technical assistance to establish the greenhouse production systems and applied research projects.

- Development of Food Technology components with staff members Ponte Tavares, Duarte Ponte and Ester Gradil. Possible start could be with problems related to cheesemaking. It may be necessary to have some additional technical assistance to assist this staff.

- Development of model small scale food production system for future implementation by Rural Extension staff in various islands.

A cross section of scientists will work together to develop the model. Possible staff included:

- Dr. Fidalgo - Sociologist
- Eng^o Baptista - Horticulturalist
- Eng^a Raquel Costa e Silva - Extension Home Economist
- Eng^o Eugenio Faria - Soil Scientist
- Dr. Young do Amaral - Nutritionist

This Committee with technical assistance from Dr. Salomon, Dr. Pollnac and Dr. McCreight of University of Rhode Island can assist in the development and implementation of this proposed model

- Continued support for the soils analysis laboratory (Dr. Salomon)
- Development of definite areas for the proposed new structure "Institute of Agricultural Sciences." We also discussed the need to define areas very specifically and communicate and develop linkages with the Agricultural Services, Veterinary Services, Forestry Services, and the Rural Extension Service.

Eng° Jorge Pinheiro

Discussions of plans for ETA in Rhode Island to pursue MS in Plant and Soil Science. Proposed time of June 8-10 was agreed upon to permit participant to attend the International Grassland Meeting in Kentucky during the weeks of June 15.

We further discussed the procedures for use of soil test analysis through the Rural Extensionists. Soil sample mailer bags are on order from Lisbon. A one page pamphlet will be developed to explain the correct soil test sampling procedures.

A site visit of the University farm indicated that little additional progress has been made during the past 2 years. Currently 33 Dairy Cattle are in milk production and about another 100 head of cattle are on the 53 hectare farm. Information indicates that final plans are agreed upon for construction to begin in the near future for the Dairy cattle complex.

During the remainder of the day I met briefly with the following staff to follow up on previous activities:

- Eng° Santana - 300 farm survey being conducted through Rural Extensionists.
- Eng° Duarte Ponte - Follow up of assistance to Tuna Plants in Pico and Faial.
- Eng° Camara - Discussion concerning construction of greenhouses and farm.
- Dr. Fidalgo - Discussion of the feasibility of the development of a model small scale food production system for fishing villages.

April 7

Travel to Ponta Delgada

A.M.

Meetings with Rural Extension personnel from Sao Miguel

Discussions centered around past year's programs in machinery maintenance and farm credit. Development of information services to include:

- Radio programs
- TV programs
- Newsletter
- Slide/cassette series
- Publications
- Leaflets

P.M. Meeting with Eng^o Ponte Tavares to discuss future Food Technology program at U.A.

Meeting with Reitor Enes to discuss status of project activities

Travel to Lisbon via TAP

April 8
and 9

Meetings with AID/Lisbon personnel:

- Director Finberg
- Program Officier Mike Lukomski
- Training Officier Isabel Caupers

April 10

Return trip to U.S.
Lisbon - New York via TWA
New York - Providence

SUMMARY OF DISCUSSIONS AT U.A./TERCEIRA
AND PONTA DELGADA

Continuation of Training Programs

CARLOS GRADIL: Carlos has completed one year of his two-year M.S. degree program in Animal Reproduction studies at the University of Minnesota. He is scheduled to complete his M.S. by March 31, 1982 and will return to his university duties in Terceira.

ANABELA GOMES: Anabela has completed the first three months of her M.S. degree program majoring in Agronomy/Forage Crops and minoring in Animal Nutrition at the University of Wisconsin. She is scheduled to complete her M.S. program by December 31, 1982.

JORGE PINHEIRO: Jorge is scheduled to start his M.S. degree program in Plant and Soil Science at the University of Rhode Island in June 1981. He is scheduled to complete his M.S. degree by June 1983.

AID/LISBON is in agreement of extending the contract for the continuation of the participant training. During meetings in Lisbon an amount of \$72,000 was agreed upon to continue the training during the two-year period of July 1, 1981 to June 30, 1983.

Greenhouse Construction
and Technical Assistance

The three greenhouses were delivered to Terceira during November of 1979. As of April 1981, construction is still in the planning stages. Plans are to start construction of the foundations as soon as possible under one of the following possibilities:

- (1) Hiring of contractor constructing R.G.A. government housing under AID financing
- (2) Utilizing construction workers at U. of A. under the direction of Eng^o Camara.

After construction of the foundations, U. of A. would request technical assistance under the current project to complete the construction and erection of the greenhouses. Four to six weeks is the estimated time requirement for the construction.

COMMENT: Under the present contract, the construction would have to be completed by June 30, 1981, since no provisions have been made to extend the contract for this purpose beyond June 30, 1981.

After the greenhouses are constructed, technical assistance will be required to establish greenhouse production systems and establish experimental designs appropriate to Azorean conditions.

Soils

Dr. Salomon's recent consultant report identifies the current and future capability of the soils analysis laboratory. Currently the laboratory has the capability of processing 30 samples per day with the projection of increasing this capability to 90 in the future.

With Jorge Pinheiro's absence during the next two years, an additional staff member would be helpful to the continued progress of the soils program at U.A. Since it is impossible to acquire a staff member on sabbatical leave on such short notice, we discussed the possibility of interesting a graduate student in working at U.A. as a temporary employee.

It was also evident that continued short-term technical assistance by Dr. Salomon would be very useful for the continued development of the soils program. Once the greenhouses are established, the testing procedures will need to be standardized in accordance with greenhouse crop responses.

Food Technology

Ponte Tavares is scheduled to complete his Ph.D. in Food Technology by June 1, 1981 at the University of Rhode Island. He is currently developing a proposal for the future program at U.A. Two other staff members, Eng^o Duarte and Ester Gradil, are available to staff this component. One area under discussion is cheesemaking. As specific problems are more clearly defined, some additional technical assistance will be required to work with the team of food scientists.

Continued Institutional Linkages

With the original development of this project, it was deemed advisable to develop mechanisms that would continue linkages beyond the original funding allocations. In recent discussions with Reitor Enes and Director Young do Amaral, we established that the utilization of sabbatical leave personnel would be one good way of establishing continued technical assistance to programs at U.A.

Reitor Enes indicated that he will ask faculty to develop a description of areas that would be good possibilities for using sabbatical personnel. If travel and housing were provided by U.A., individuals could probably be available for four to six month assignments. After the definition of areas are made available, we will be able to encourage staff to consider possible sabbaticals at the University of the Azores. Arrangements to attract sabbatical leave staff will require a lead time of two years.

Summary Comments

Much progress has evolved at U.A. in Terceira in the development of the soils, animal nutrition, chemistry, and microbiology laboratories. These laboratories are in excellent condition and are now available for utilization to solve problems common to the Azores region.

However, progress has been extremely slow in regard to construction of the three greenhouses and the farm. The development of these are of immediate urgency to the development of the proposed "Institute of Agricultural Sciences." The concept of such an institute is an excellent idea and hopefully will be fully approved and implemented during the next three to six months.

In closing, I must mention that since these areas haven't been developed and additional requests for technical assistance haven't been forwarded to AID/Lisbon, the only authorized funding beyond the date of June 30, 1981 is for the continuation of the participant training.

RURAL EXTENSIONISTS' TRAINING SESSION MARCH 29-APRIL 3

HORTA FAYAL

Summary

All the extensionists who received training during the period of May 1979 to June 1980 in the Azores and participated in U.S. internship during July of 1980 were in attendance. Five additional extensionists from Terceira and San Miguel attended the sessions.

Identification of Activities Completed

The first training activity centered around the identification of extension activities that have been accomplished during the period of September 1980 to March 1981.

The following activities are representative of the total group:

1. Collection of data for 300 farm survey (in cooperation with University of Azores faculty). Data will be used to determine cost of production and provide necessary information for Portugal entry into Common Market.
2. Preparing courses and conducting meetings for farmers
 - Maintenance of agricultural equipment
 - Establishment of coffee plants
 - Farm accounting
 - Corn varieties
 - Fertilization of pastures
 - Forage crop varieties
3. Providing credit information to banks for the processing of loan applications.

4. Conducting field demonstrations

Corn variety demonstrations
Pasture demonstrations (variety and fertilization)
Coffee (cultures and varieties)

5. Conducting radio programs.

6. Publishing a monthly agricultural information newsletter.

Preview of 16mm Films

During the week, 12 Portuguese and Spanish films were previewed. A discussion followed the preview of each film. Comments centered around adaptive technology for the Azoreans and how desirable films could be used with extension audiences. The discussion also stimulated a request for the location of films with adaptive technology from Brazil.

Identification of Extension Linkages

Through small group brainstorming, the extensionists developed a list of all the possible services that could collaborate with the Rural Extension program. The identification of resource persons and groups is very important to the development and implementation of future extension programs. The Rural Extension program cannot afford to have Extension specialists for all areas on all islands. Many specialists already exist within the Agricultural Services and the University. The extensionists on each of the islands must call upon available personnel in the RGA or the University to assist them in the implementation of educational programs.

Communication must also be well defined between and among the services to know what each individual is doing and what he or

she is capable of providing in terms of technical assistance. A system needs to be developed to acquire proper authority in the utilization of personal resources within the RGA and the University. Eng^o Duarte indicated that he will work out such a system with the chiefs of the other services and the proper University officials.

Identification of Problem Areas

Program Development. Participants listed all the technical problems facing their target population. From the list, possible programs were discussed for implementation during the coming year.

Extension Tasks. Each participant listed the negative and positive aspects of their work. Small group discussions followed the individual listing. Each group outlined a composite list of problems in priority order. This particular activity was a very sensitive exercise; however, on a voluntary basis, many of the problems were identified and discussed in the total group. Several major changes in extension tasks will result from the discussions.

The tasks related to the collection of data and recommendations regarding issuance of credit is an example of an activity that can create an area of conflict in building trust with people extensionists are trying to help.

Refusal of a loan can stop the lines of communication and trust between the extensionist and farmer. Changes are currently underway to eliminate these duties or tasks from the Extensionist and place them under another service. The discussion of problem areas was a very effective exercise. I have only listed one example, due to the sensitivity of the situation.

Rural Youth Programs

The start of a youth exchange program will occur in June, 1981 when two Rhode Islanders will go to the Azores for four weeks as 4-H Ambassadors. After their activities to promote the development of youth groups, an attempt will be made to have a formal exchange program in 1982 with ten interested Azorean students coming to the U.S. and 10 U.S. 4-H members going to the Azores.

Future Extension Training

The importance of continued training on at least an annual basis was agreed upon. During the next year in June, it was decided to hold an Extension Seminar in San Miguel and Terceira.

The topics were outlined as follows:

- organizing and conducting youth programs
- organizing and conducting youth exchange programs
- developing new audiovisual materials for Rural Extension programs
- evaluation of Rural Extension activities.

GENERAL PROJECT RECOMMENDATIONS

1. Continue the technical assistance and training for the Rural Extension program outlined for June of 1982 as requested by the R.G.A.
2. Continue to respond to University of Azores requests related to areas of greenhouse construction and operation, soils, and other areas deemed appropriate with building of the Institute of Agriculture.
3. Continue the training of Gradil, Gomes, and Pinheiro as planned through June of 1981.

Appended to this report you will find a copy of the current budget status and the original request that was made to AID/LISBON for extension of the project through June 1983 without additional funds.

In July of 1981, as project director I will complete and forward to AID/WASH, AID/LISBON, and AID/PONTA DELGADA an executive summary of project accomplishments.

AZORES CONTRACT: Summary of Expenditures and Estimated Balance
at June 30, 1981

AID/NE-C-1477
TA GRANT 15C-0001

<u>Category</u>	<u>Original Budget Amount</u>	<u>Revised July 1980 Budget Amount</u>	<u>Expenditures to Dec 31, 1980</u>	<u>Anticipated Expenditures Jan 1 thru June 30, 1981</u>	<u>Anticipated Balance at June 30, 1981</u>	<u>Definite Commitments Thru June 30, 1983</u>
Salaries & Wages	\$160,666	\$172,451	\$148,194	\$ 6,711	\$ 17,546	
Indirect Costs	77,696	85,979	75,573	3,691	6,715	
Consultant Fees	73,092	33,989	36,569	2,890	- 5,470	
Allowances	13,842	16,883	17,072	390	- 579	
Travel and Transportation	111,454	80,979	76,403	8,845	- 4,269	
Equip. & Materials	40,384	37,205	36,541	416	248	
Participant Costs	101,392	183,357**	42,805	21,506	119,046	\$63,000*
Other Direct Costs	<u>23,220</u>	<u>20,905</u>	<u>21,616</u>	<u>529</u>	<u>- 1,240</u>	
Grand Total	\$601,746	\$631,748	\$454,773	\$44,978	\$131,997	

* Participant Training after June 30, 1981

Gradil	9 months	\$12,000
Pinheiro	23 months	26,000
Gomes	18 months	25,000
		<u>\$63,000</u>

Anticipated Balance June 30, 1981 \$131,998

Committed Participant Training to
to June 1983 63,000

Non-committed Funds for
Reallocation After June 30, 1981 \$ 68,998

* Includes \$30,000 for Extension training

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Proposed Budget for two year (No Cost Extension of the Project)

Discussed with Lisbon/AID 4/9/81

I T E M	July 1, 1981 June 30, 1982	July 1, 1982 June 30, 1983	TOTAL
<u>1. SALARIES AND WAGES</u>			
. Project Leader: D. McCreight 10% includes 2 weeks consulting each year	3,350	3,600	6,950
. Admin. Staff: Sec. 10%	1,400	1,500	2,900
Fiscal Clerk 10%	1,550	1,700	3,250
	<u>6,300</u>	<u>6,800</u>	<u>13,100</u>
<u>2. INDIRECT COSTS</u>			
. 55% On campus	3,465	3,740	7,205
. 34.8% Off campus	-	-	-
	<u>3,465</u>	<u>3,740</u>	<u>7,205</u>
<u>3. CONSULTANT FEES</u>			
. Greenhouse Construction 1.5 person months (U.A.)	6,000	-	6,000
. Greenhouse Production 1.5 person months (U.A.)	2,125	2,125	4,250
. Soils (Dr. Salomon) 1.5 person months (U.A.)	2,550	2,550	5,100
. Extension Youth Programs/Extension Materials 1.5 person months (R.G.A.)	2,125	2,125	4,250
. Uncommitted 6.0 person months	6,000	12,000	18,000
Total Consulting 12 person months	<u>18,800</u>	<u>18,800</u>	<u>37,600</u>
<u>4. ALLOWANCES</u>			
None	-	-	-
<u>5. TRAVEL - TRANSPORTATION</u>			
Assumes U.A. and R.G.A. would assume international travel and per diem costs for the 12 person months of consulting.			
. Project Leader	900	900	1,800
Per Diem	750	750	1,500
. Propose Other Consultant Travel and Per Diem Be Paid By R.G.A. or U.A.			
. US Travel of Consultants to NYC	1,200	1,600	2,800
	<u>2,850</u>	<u>3,250</u>	<u>6,100</u>

I T E M	July 1, 1981 June 30, 1982	July 1, 1982 June 30, 1983	TOTAL
6. <u>EQUIPMENT AND MATERIALS</u>	500	500	1,000
7. <u>PARTICIPANT COSTS</u>			
. M.S. Degrees: Gradil U. of MN	12,000	-	12,000
Gomes U. of WI	16,667	8,333	25,000
Pinheiro U. of RI	<u>13,565</u>	<u>12,435</u>	<u>26,000</u>
	42,232	20,768	63,000
8. <u>OTHER DIRECT COSTS</u>			
. Communications	500	500	1,000
. Office Expenses	350	350	700
Books and Subscriptions	200	200	400
. Consultant Insurance 4%	<u>752</u>	<u>752</u>	<u>1,504</u>
	1,802	1,802	3,604

SUMMARY OF PROPOSED BUDGET

. SALARIES - WAGES	6,300	6,800	13,100
. INDIRECT COSTS	3,465	3,740	7,205
. CONSULTANT FEES	18,800	18,800	37,600
. ALLOWANCES	-	-	-
. TRAVEL AND TRANSPORTATION	2,850	3,250	6,100
. EQUIPMENT AND MATERIALS	500	500	1,000
. PARTICIPANT COSTS	42,232	20,768	63,000
. OTHER DIRECT COSTS	<u>1,802</u>	<u>1,802</u>	<u>3,604</u>
	75,949	55,660	131,609

CONTRACT AID/NE-C-1477

July 1, 1981 - June 30, 1983

Participant Costs (Budgeted amounts agreed upon with
AID/Lisbon 4/9/81)

<u>M.S. Degrees</u>	<u>Location</u>	<u>Completion Date</u>	
Gradil	U. of Minn.	April 1, 1982	\$13,550
Gomes	U. of Wis.	December 31, 1982	\$28,109
Pinheiro	U. of Rhode Island	May 31, 1983	\$30,513
			<hr/>
			\$72,172

Costs are determined in accordance with budget calculations submitted in February 23 report "Agricultural Technical Assistance and Participant Training Program Report."

Administrative costs are calculated on the basis of those charged by USDA (\$220/month/participant). A 5% contingency cost is added to cover undetermined costs.



REGIÃO AUTÓNOMA DOS AÇORES

SECRETARIA REGIONAL DA AGRICULTURA E PESCAS

DIRECÇÃO REGIONAL DE EXTENSÃO RURAL

SERVIÇOS DOS AÇORES QUE PODERÃO AUXILIAR

A EXTENSÃO COM PESSOAL

Os vários Serviços da Secretaria de Agricultura e Pesca-

U.A.

D R E P A

Secretaria Regional de Educação e Cultura

" " Assuntos Sociais

" " do Trabalho

" " do Comércio e Indústria

Igreja Católica

Leadrs

Voluntários



REGIAO AUTONOMA DOS AÇORES

SECRETARIA REGIONAL DA AGRICULTURA E PESCAS

DIRECÇÃO REGIONAL DE EXTENSÃO RURAL

DIFERENTES SERVIÇOS QUE PODERÃO DAR COLABORAÇÃO

A EXTENSÃO:

- Governo Regional, as várias Secretarias principalmente os Serviços da Secretaria Regional de Agricultura e Pescas, D R E P A e U.A.

- Serviços de Estatística, Câmara do Comércio, Fundo de Fomento de Exportação.

- Associações de Pescadores e Lavradores

Televisão, RADIO

- Imprensa

- Ministério do Trabalho e outros

- FAO, AID, Universidades Estrangeiras

- IRASQUE

- IACAPS

- Comando Aéreo dos Açores

- D.G.E.R., e as restantes Direcções Gerais e Regionais

- Igreja Católica, através das autoridades eclesiásticas

- Cooperativas

- Leadres formais e informais

- INIA e organismo dela dependentes

Dr. Donald Mac. Creight acrescentou:

Indústrias privadas relacionadas com a Agricultura
Comércio da Especialidade.

Voluntários