

**PURDUE UNIVERSITY**  
International Education and Research  
International Programs in Agriculture

150 000 / 53  
PD-AAA-484  
ISN = 35395



**PORTUGAL UNIVERSITY  
INSTITUTES  
DEVELOPMENT PROJECT**

**(Contract AID/NE-C-1701)**

**SEVENTH SEMI-ANNUAL REPORT**

**August 25, 1983 to February 25, 1984**

PDAAP 484

PORTUGAL UNIVERSITY INSTITUTES DEVELOPMENT PROJECT  
(CONTRACT AID/NE-C-1701)

SEVENTH SEMI-ANNUAL REPORT

AUGUST 25, 1983 - FEBRUARY 25, 1984

Submitted to  
Agency for International Development  
Washington, DC

by  
Division of International Programs in Agriculture  
School of Agriculture  
Purdue University  
West Lafayette, IN

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INTRODUCTION

Purdue University and the Agency for International Development (AID) entered into a four-year contract on August 25, 1980. The purpose of the contract was to assist the Government of Portugal to develop and strengthen three of its university institutes. The three institutions, located in the interior of Portugal, are:

- the Instituto Universitario de Tras-os-Montes e Alto Douro, at Vila Real
- the Universidade de Evora (UE), located at Evora
- the Instituto Universitario da Beira Interior, located at Covilha

In order to fulfill the main objectives of the program, Purdue was asked to provide technical assistance and training to the collaborating institutions. The technical assistance, in a variety of disciplines, would be provided in Portugal by long- and short-term advisors. Purdue would plan and administer academic and non-academic training programs at various U.S. universities for the faculty of the Portuguese universities.

This, the seventh semi-annual report, describes the status of the project, program plans for the next six months, and activities that have taken place during the past six months--August 25, 1983 to February 25, 1984.

## SUBSTANTIVE REPORT

### Status of Work

From the beginning of the project, the Contractor's primary goal has been to effectively fulfill the objectives of the program and to do so within the scheduled time-frame. We believe the goal is being met.

For example, the amended contract specifies that 226.5 person months of technical assistance and 417.5 person months of training be provided to the Portuguese institutions by the end of the contract on December 31, 1985. To date, five long-term advisors have served a total of 90.5 person months and 40 short-term advisors have served a total of 60.5 person months for a grand total of 151 person months of technical assistance. Further, 97 person months of non-academic and 123 person months of academic training have been completed by February 25, 1984.

Person months of training and/or advisors during the remainder of the program may have to be adjusted downward as the program draws to an end, depending on costs.

### Activities and Accomplishments

Purdue submitted a request to AID Washington for modification of the contract to reflect the change in termination date and the increased number of person months for short-term advisors and training. The request was approved, and in January 1984 the amended contract became effective.

Since the prime contract was amended, it then became necessary to amend the Purdue/Clemson subcontract since the number of trainees and advisors they are responsible for has also increased. The subcontract is now being prepared by the Purdue Contract Office. It will be provided

Clemson in the near future for their review and signature.

The last long-term advisor in the field, Dr. Thomas H. Gunter, Jr., completed an eleven-month assignment at Covilha in December 1983 and returned to the United States. The Contractor assisted with shipping arrangements and other miscellaneous wrap-up activities.

The Portuguese university institutes completed their short-term advisor and training schedules for 1984. They were approved by the Portugal Ministry of Education and USAID/Lisbon. Purdue received the schedules the first part of February. Individuals are now being identified for assignments in Portugal and training programs are being developed for faculty of the Portuguese institutions.

Predeparture arrangements were completed for 11 short-term advisors. Eight departed during this report period--four were at Vila Real, three at Evora and one at Covilha.

Some short-term staff assignments have been organized to give faculty at IUTAD and IUBI the opportunity to earn graduate credit from Purdue and Clemson Universities. A three-week, 30-hour course on research methodology was presented by two advisors from Purdue in October 1983 at IUTAD. Seventy-one persons enrolled in the course. Certificates were presented to 41 individuals who completed the course and 15 received one hour of Purdue graduate credit for successfully completing specific requirements.

From October 11 to December 9, 1983, an advisor from Clemson University offered a course for credit on managerial economics at IUBI. Four students completed the course and met requirements to receive three semester hours of graduate credit that can be applied towards an M.S., M.B.A., or Ph.D. degree in management or economics.

Several small items were purchased from the dollar budget for the universities in Portugal during this reporting period. For example, purchases included computer software for IUBI and two temperature amplifiers for IUTAD's plant growth chambers. In addition, a variety of reference materials and textbooks were sent to IUTAD and UE.

#### Problems Encountered and Recommendations

Communications between Purdue University, AID/Washington and the Portuguese university institutes could be improved. On various occasions, we have telexed the institutes requesting specific information (i.e., date changes for advisory assignments, inquiries pertaining to training programs, etc.). It is not uncommon to wait two or three weeks for responses. Several times we have requested USAID/Lisbon's assistance. We believe that responses to telexes should be sent as soon as possible. The institutes are now our main source for information since Purdue no longer has long-term advisors in the field.

Likewise, AID/W has been slow in responding to our requests for approvals. Very often we are concerned that approvals will not arrive before advisors are scheduled to depart. Late approvals are especially troublesome when advisors are hired from outside Purdue. Consulting agreements for services cannot be released by Purdue's contract office without first receiving AID/W approval of their staff appointment. In several instances, agreements have had to be mailed to the advisors in Portugal for their review and signature. The consultants are reluctant to depart, and justly so, without a signed, formal agreement. We suggest that AID/W make a concerted effort to provide approvals as early as possible.

Throughout the project, full scopes-of-work for short-term advisors have not been received far enough in advance. Two of the universities include very brief summaries with the schedules for the coming year. These are not detailed enough, however, for Purdue to identify an advisor with appropriate qualifications for a specific assignment or for the advisor to plan for an effective visit. We suggest that full scopes-of-work accompany new schedules each year.

As mentioned in past reports, prepaid tickets continue to cause a great deal of concern and difficulty. Costly time and communications are expended to get tickets here on time with correct reservations for project staff. As previously recommended, if the tickets must be issued in Portugal, then they should at least be issued as negotiable tickets so adjustments could be made in routing, if necessary.

Advisors returning from Portugal have offered suggestions and comments in order to assist future advisors and the project. Several of the advisors commented that, due to the lack of advanced planning by the Portuguese institutes, their time had not been used effectively. Further, the shortage of secretarial services, supplies and equipment has been a handicap in certain instances. They report that overhead projectors are in short supply and, if possible, at least one for each institute should be purchased from project funds. The advisors also suggested portable typewriters and a supply of transparencies should be taken to Portugal, especially by advisors who will be teaching classes. Several advisors mentioned that appointments had been scheduled for them to visit administrators at the other two university institutes. When they arrived, they found to their dismay and annoyance that the appointment had been cancelled. In several instances, no explanation was given for the cancellation.

Plans for the Next Six Months

Although a firm date has not been established for the Annual Project Review, we assume that it will take place in the near future. Plans will be made for a Purdue representative to attend the meeting and make administrative visits to each of the cooperating Portuguese institutes. We would like to again suggest that the agenda for the 1984 review include discussions to explore the possibility of continuing work commenced under this contract with funding from other sources.

A substantial number of short-term advisors will be going to Portugal in 1984. Likewise, there will be a relatively large number of trainees coming to the U.S. The Contractor will devote considerable time to travel preparations and developing training programs.

The amended version of the subcontract with Clemson University should be approved and signed during the next six months.

## ADMINISTRATIVE REPORT

### Personnel Employed Under the Contract

An important factor of the project is for the contractor to provide professional staff to serve as advisors at each of the university institutes. Long-term, professional educators and scientists have been in residence at each of the cooperating universities. A relatively large number of short-term advisors have served specific needs at the three Portuguese institutes. Backstopping is provided by staff at Purdue and Clemson Universities.

Individuals who have participated as long- and short-term advisors from August 1980 to the beginning of this reporting period are listed in Appendix A of this report. Those who carried out assignments during the last six months and a summary of their activities are listed below.

#### Long-term Professional Staff

Dr. Thomas H. Gunter served as technical advisor at the Instituto Universitario da Beira Interior and as Purdue's in-country project coordinator from January 17 to December 15, 1983.

One of Dr. Gunter's final activities as an advisor was to plan a series of short-courses to familiarize IUBI students with techniques utilizing computers for middle level management. He presented the first courses of the series from September 19 through the week of October 4.

In an administrative capacity, Dr. Gunter arranged TOEFL tests for two IUBI faculty preparing to come to the U.S. for training; surveyed IUBI faculty for short-term training interests; reworked advisor and training schedules for 1984; completed arrangements for a class to be

presented by a short-term advisor (Dr. Whitehurst) and prepared a presentation for the visit to Covilha by Ambassador Holmes in November. Monthly, he visited the institutes at Evora and Vila Real to assist with project plans and activities. In order to assure a smooth transition after his departure, Dr. Gunter spent the latter weeks of his tour in orientation sessions with the person IUBI selected to assume his duties.

#### Short-term Professional Staff

Eight short-term assignments were completed during the past six months. The advisors who served and a brief summary of their activities follows:

Dr. Clinton H. Whitehurst, Jr., Department of Economics and Management, Clemson University, was at the Instituto Universitario da Beira Interior from September 1 through December 31, 1984. The main thrust of his visit was to teach a graduate level course in managerial economics. Twenty-three, two-hour lectures were presented. Approximately thirty-five hours of homework was assigned. Classes began on October 11 and ended with a final examination on December 9. Four enrollees each received three hours of graduate credit after successfully completing the course.

Dr. Whitehurst wrote a syllabus for an undergraduate managerial economics course which will be used in future IUBI management curriculum. He met with faculty to encourage research and publication of research results. He developed a glossary of managerial economic terms for IUBI and assisted with plans for and presented a paper at a Regional Economics Conference.

Dr. William H. Friday, Associate Professor of Agricultural Engineering, Purdue University, was at IUTAD from September 15 through November 15, 1983. The objectives of his program were two-fold: (1) to determine how IUTAD's teaching, research and extension programs might function in finding solutions that could be implemented to remodel old and plan new agricultural structures to fit the needs of changing agriculture; and 2) to improve methods of conveying information developed at IUTAD to the agricultural community.

The first part of Dr. Friday's visit was spent touring dairy farms in the Vila Real region to observe building structures. He discussed plans for testing experimental building frames. Upon his return to the United States, Dr. Friday sent a set of plans to IUTAD for a testing device.

He and his Portuguese counterpart, Antonio Machado, developed outlines for numerous extension publications for dairy and cattle housing, ventilation and feeding systems. They discussed and prepared new course outlines, patterned after courses taught at Purdue, which will be offered at IUTAD.

Dr. Friday presented a seminar for IUTAD staff and federal extension personnel entitled "Extension--Publications and Other Techniques," which described parallels between U.S. and Portuguese extension. He also presented two lectures for students in the agronomic and animal sciences departments. One was aimed at comparing agricultural building and housing systems and the other dealt with comparative crop production in the United States and Portugal.

Dr. Donald P. Franzmeier, Professor of Agronomy, Purdue University, served as an advisor at the Instituto Universitario de Tras-os-Montes e

Alto Douro. The main objective of his visit was to help develop a Ph.D. program on the effects of precipitation on soil properties. He assisted with the selection of sampling sites, outlined laboratory analyses and discussed methods of presenting the results of the study.

Further, he discussed with the Reitor of IUTAD a proposed soil survey program. He offered a number of recommendations for the program, such as: 1) the addition of a project coordinator to the staff; 2) conduct of the survey by personnel of IUTAD; 3) careful consideration to the needs of the user; and 4) potential application of the Australian Land System for their region.

He visited research projects of IUTAD's Forestry Department and offered comments on their studies. On his return to Lisbon, Dr. Franzmeier spent two days at the University of Evora where he examined soils at a drainage research site near Evora and an irrigation project at Odemira.

The period of Dr. Franzmeier's assignment was for one month-- September 22 through October 21, 1983.

Dr. Truman G. Martin, Professor of Animal Science, and Dr. Victor L. Lechtenberg, Professor of Agronomy and Director of the Agricultural Experiment Station, Purdue University, carried out a joint assignment at IUTAD from September 22 through November 3, 1983. They were asked to serve as resource persons in the areas of research methodology, analysis of experimental data and design of experiments.

The major portion of their time was spent presenting a 30-hour course, over a three week period, on Research Methodology. Seventy-one individuals attended one or more of the classes; 41 received certificates

for completing the course; and an additional 15 people completed the course and received one hour of graduate credit after fulfilling special requirements.

The advisors also consulted with 22 scientists and provided specific recommendations to resolve data analysis problems or to improve experimental design. They visited plant breeding, forage utilization, forage production and sheep production laboratories at IUTAD. One day was spent at the Montalegre Station of the Ministry of Agriculture to observe work being conducted on forage, livestock and crop rotation.

This was Dr. Martin's second assignment on the Purdue/AID Portugal program, having previously served in 1982.

Dr. David H. Bache, Department of Agricultural Economics, Purdue, spent one month at the University of Evora--from October 1-31, 1983. He was asked to assist UE with farm accounting systems, business analyses and the implementation of an accounting system for university-administered farms.

During the first part of his visit, Dr. Bache spent several days touring farms at Daroeira, Almocreva and Outerio. He spent considerable time at UE studying and discussing the accounting system used by their farms. He presented a seminar for members of the Farm Management staff where he reported his observations and made recommendations regarding the outlying farms.

Dr. Bache helped to further develop the farm accounting system and made specific recommendations for materials, equipment and staff training for a more useful system. He also held long and detailed discussions pertaining to their current research, assignments and career plans.

Dr. Edwin J. Monke, Department of Agricultural Engineering, Purdue, served as an advisor to the Department of Agricultural Engineering at the University of Evora to provide technical assistance in irrigation, drainage and soil erosion. He served from October 16 through November 16, 1983.

Upon his arrival at Evora, Dr. Monke first familiarized himself with the structure of the university and its teaching programs. He visited the hydraulics laboratory; inspected drainage and irrigation schemes at Mitra, Alto Sado and Roxo; met with personnel from the Project of Drainage and Conservation of Soils in the Alentejo and the Department of Soils; and observed experimental farms at Almocreva, Outerio and Daroeira

He consulted with the assistants in the Department of Rural Engineering and made specific recommendations regarding their research projects. Dr. Monke helped organize two seminars and presented a lecture on engineering solutions to problems in soil erosion, drainage and irrigation at the first seminar. At the second, he discussed the role of the agricultural engineer in the U.S. with particular emphasis on training and expected career opportunities. Additional lectures on soil and water engineering were also presented at the University of Evora and in Lisbon.

Dr. William S. McGuire, Department of Crop Science, Oregon State University, spent one month (October 14 - November 19, 1983) at the University of Evora. The problem he addressed was how the limited water and particular soil conditions in the Alentejo complicates the establishment of pastures and forages.

To accomplish the goals of his visit, Dr. McGuire first met with staff in the departments of pasture/forages and animal science. They

discussed the problems, the potential and the current status of current research programs.

Dr. McGuire visited the University farms at Beja, a privately-owned dairy products farm, the extension service at Evora, and the Ministry of Agriculture's irrigated farm at Pegoes. Dr. McGuire observed and offered recommendations on a grazing trial.

Two seminars were offered by Dr. McGuire--one on the "Comparison of Pasture Production of the Alentejo and Western Oregon" and the other on "Establishment and Nutrition of Legumes." He also presented two seminars for PROCALFER project personnel in Lisbon.

#### Advisors Scheduled During the Next Six Months

Fifteen advisors are programmed to serve a total of 21.5 person months during the next six months. The advisors are:

##### University of Evora:

- Dr. Edward D. Carter, Department of Agronomy, University of Adelaide, South Australia  
1/2 month, pastures and forages
- Dr. James B. Outhouse, Professor Emeritus, Department of Animal Sciences, Purdue University  
1 month, sheep production and management
- Dr. Sydney C. James, Department of Agricultural Economics, Brigham Young University  
1 month, farm management/farm accounting
- Dr. Milton B. Jones, Division of Agricultural Sciences, University of California/Davis  
1 month, soil fertility
- Dr. Charles L. Rhykerd, Department of Agronomy, Purdue University  
1 month, pastures and forages
- Dr. William Sims, Department of Horticulture, University of California/Davis  
1 month, horticulture

Instituto Universitario de Tras-os-Montes e Alto Douro:

- Dr. Edward Carter, Department of Agronomy, University of Adelaide, South Australia  
1/2 month, pastures and forages
- Prof. David F. Moses, Undergraduate Library Services, Purdue University  
2 months, Teaching/Learning Resource Center
- Ms. Nancy Meitus, publication manager, Department of Agriculture Communication Services, Purdue University  
1 week, developing and printing extension publications
- Dr. Charles L. Rhykerd, Department of Agronomy, Purdue University  
3/4 month, forages and pastures
- Dr. Barry M. Cunfer, Department of Plant Pathology, University of Georgia  
1 month, plant pathology
- Dr. Stephen C. Bunting, College of Forestry, University of Idaho  
1 month, fire ecology

Instituto Universitario da Beira Interior:

- Dr. Frederick T. Simon, School of Textiles, Clemson University  
2 months, color science
- Dr. James R. Davis, School of Accountancy, Clemson University  
2 months, agri/business management
- Dr. George Friedlob, School of Accountancy, Clemson University  
2 months, preparation and appraisal of investment projects
- Dr. David W. Grigsby, Department of Management, Clemson University  
1.5 months, industrial management/budget techniques
- Dr. Hassan M. Behery, School of Textiles, Clemson University  
2.5 months, instruments for textile control

On-campus Staff -- Purdue and Clemson Universities

There have been no changes in the on-campus backstopping staff at Purdue or Clemson University. Dr. James L. Collom, Associate Director of International Programs in Agriculture and International Education and Research, continues to serve as overall project coordinator at Purdue. Ms. Vivian L. Rider remains in the position of administrative assistant/executive secretary for the project at Purdue. Dr. Hassan M. Behery, Clemson University's designee for project coordinator of the Purdue/Clemson subcontract, continues in this position.

Educational and Training Programs

Expanding the professional capacities of faculty at the cooperating Portuguese institutes continues to be a significant component of the project. The schedules, especially for long-term training, have been considerably expanded from those in the original contract. Appendix B lists completed academic and non-academic programs as well as on-going programs detailed in previous semi-annual reports.

The following training programs commenced during this reporting period.

Academic Training Programs

Amandio Pereira Baia, Instituto Universitario da Beira Interior, Covilha, January 4, 1984 - July 4, 1985. Mr. Baia is pursuing the M.S. degree in Industrial Management at Clemson University. He is specializing in Industrial Development and Planning.

Carlos Marques, University of Evora, January 5, 1984 - January 5, 1986. Mr. Marques is pursuing the M.S. degree at Purdue University in Agricultural Economics. He is specializing in Production Economics.

Amilcar Serrao, University of Evora, January 5, 1984 - January 5, 1986. Mr. Serrao is pursuing the M.S. degree in Agricultural Economics at Purdue University. His area of specialization is Farm Management.

#### Non-academic Training Programs

Nicolau Raposo, Instituto Universitario da Beira Interior, Covilha, October 22 - November 18, 1984. The focus of Mr. Raposo's program was to gather information for the development of a Teaching/Learning Resource Center. At Purdue University, the University of Wisconsin, and Clemson University, he discussed with professionals the development and implementation of continuing education seminars/workshops.

He learned audio/tutorial course development, how to utilize TV as an instructional tool and gained knowledge of the equipment needs for such media. He investigated library uses for search and retrieval of information on books, periodicals, and key-word searches.

#### Training Scheduled During the Next Six Months

The 1984 schedules indicate that no new academic training programs will commence during the next six months. We anticipate, however, that twelve non-academic trainees will begin programs in the United States during this period. They include:

students completed the course and met requirements to receive three semester hours of graduate credit that can be applied towards an M.S., M.B.A., or Ph.D. degree in management or economics.

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- Armando de Melo, IUTAD, July 15 - September 31
- H. Daniel, IUBI, July 1 - August 15
- C.M. Passos Morgado, IUBI, July 1 - September 1
- M. Tavares, IUBI, August - September
- J. Dargent Albuquerque, UE, May/June/July
- Joao Araujo, UE, May/June
- J. Ribeiro, UE, June 1 - November 1
- J. Sena, UE, June/July/August
- C. Coelho, UE, June 1 - September 1
- P. Silveira, UE, June 15 - November 15
- G. Ferreira, UE, July 15, 1984 - January 15, 1985
- E. Cruz de Carvalho, UE, June/July

#### Expenditures -- Dollar Budget

The dollar contract budget has now been revised and amended to reflect changes in staff inputs and minor adjustments in a few of the other line items. The adjustments did not increase the grand total of the dollar budget. It remains at \$2,897,425.

Expenditures and encumbrances through March 31, 1984 are projected to be \$1,937,004. This amount includes actual Purdue expenditures through February 28, 1984 and actual Clemson expenditures through September 30, 1983. From these dates to March 31, 1984, expenditures have been estimated.

A dollar budget summary is provided in Table 1.

TABLE 1

Estimated Dollar Budget Expenditures  
Spent/Committed Through 3/31/84

QUARTERLY PROJECTION THROUGH 3/31/84  
 Portugal University Institutes Development Project  
 Revised Contract Dollar Budget, 1980-1985

	Total Project Budget 6 Periods**	Budget Periods 1-4**	Projected Expenditures Through 3/31/84*	Balance Periods 1-4**	Budget Period 5**	Budget Period 6**	Balance Through 12/85
Salaries and Wages	\$1,040,530	\$ 900,176	\$ 831,597	\$ 68,579	\$ 85,869	\$ 54,485	\$208,933
Fringe Benefits	218,980	184,648	155,193	29,455	19,605	14,727	63,787
Education Allowance	2,050	2,050	2,050	--	--	--	--
Travel/Transportation	61,708	53,608	13,898	39,710	6,600	1,500	47,810
Participant Training	813,974	671,692	390,947	280,745	55,982	86,300	423,027
Other Direct Costs†	127,284	110,308	136,374	(26,066)	12,726	4,250	(9,090)
Indirect Costs	632,899	542,776	406,945	135,831	52,916	37,207	225,954
<b>TOTAL</b>	<b>\$2,897,425</b>	<b>\$2,465,258</b>	<b>\$1,937,004</b>	<b>\$528,254</b>	<b>\$233,698</b>	<b>\$198,469</b>	<b>\$960,421</b>

\*Actual Purdue expenditures through 2/28/84 only. Purdue expenses for 3/84 estimated. Clemson subcontract actual expenditures through 9/30/83 only. Clemson expenses for 8/83 through 3/84 estimated.

\*\*6 periods include 8/25/80 through 12/31/85; Periods 1-4 are first four contract years; Period 5 is from 8/25/84 through 8/25/85; Period 6 includes 8/26/85 through 12/31/85.

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APPENDIX A

Advisors Who Have Completed Assignments in Portugal from  
August 25, 1980 - February 25, 1984

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PORTUGAL UNIVERSITY INSTITUTES DEVELOPMENT PROJECT  
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Advisory Assignments Completed

Name	Area	University	Dates	PM
BROWN, Amanda	Family Resource Management	UE	9/15/80 - 12/15/80	3.00
THOMPSON, Robert	Agricultural Economics	UE	4/18/81 - 5/23/81*	1.00
RHYKERD, Charles	Forages	UE	6/14/81 - 8/5/81*	.50
JANICK, Jules	Horticulture	UE	9/10/81 - 10/10/81	1.00
THOMPSON, Robert	Agricultural Economics	IUTAD	4/18/81 - 5/23/81*	.25
RHYKERD, Charles	Forages	IUTAD	6/14/81 - 8/5/81*	1.75
LA ROCHE, Evan	Textile Technology & Management	IUBI	2/3/81 - 6/1/81	4.00
BEHERY, Hassan	Non-woven Technology	IUBI	5/15/81 - 7/15/81	2.00
PRICER, Robert	Industrial Management (Budget Techniques)	IUBI	6/4/81 - 7/3/81	1.00
FRIST, Robert	Management (Agrobusiness)	IUBI	6/4/81 - 7/3/81	1.00
ATKINSON, Julian	Purdue Project Coordinator	IUBI	9/30/80 - 12/21/81	15.00
JOHNSON, Dennis	Land Use Planning & Regional Development	UE	1/2/82 - 3/3/82	2.00
CARTER, Edward	Forages	UE	5/8/82 - 6/6/82	1.00
HEADY, Earl	Economics/Management	UE	6/12/82 - 7/23/82	1.25
RHYKERD, Charles	Forages	UE	10/3/82 - 12/19/82	2.75
OUTHOUSE, James	Production & Management of Sheep	UE	11/29/82 - 12/8/82*	.25
MARTIN, Truman	Artificial Breeding and Reproduction	UE	11/29/82 - 12/8/82*	.25

\* Advisors shared by UE and IUTAD during same trip.

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Advisory Assignments Completed

Name	Area	University	Dates	PM
TAYLOR, Robert	Farm Management & Production Economics	IUTAD	5/9/82 - 6/15/82	1.25
MARTIN, Marshall	Policy and International Trade	IUTAD	5/9/82 - 6/15/82	1.25
GAROYAN, Leon	Management of Agricultural Cooperatives	IUTAD	5/15/82 - 6/15/82	1.00
COLLINS, Michael	Forages	IUTAD	7/17/82 - 8/7/82	.75
OUTHOUSE, James	Production & Management of Sheep	IUTAD	9/20/82 - 11/28/82*	2.25
MARTIN, Truman	Artificial Breeding & Reproduction	IUTAD	10/11/82 - 11/28/82*	1.75
BUNTING, Stephen	Forestry	IUTAD	10/15/82 - 12/12/82	2.00
EDIE, Dan	Rheology	IUBI	5/1/82 - 6/30/82	2.00
BEHERY, Hassan	Textile and Fiber Physics	IUBI	6/1/82 - 7/15/82	1.50
SPENCER, Garth	Physical Chemistry of Polymers	IUBI	10/22/82 - 12/22/82	2.00
FOLEY, John	Purdue Project Coordinator	IUTAD	8/20/80 - 11/2/82	27.00
AHLRICH, James	Visiting Scientist--soil and agr. sciences	IUTAD	1/26/81 - 1/26/83	24.00
SANDERS, John	Purdue Project Coordinator	UE	3/11/81 - 3/29/83	24.50
CARTER, Edward	Forages	UE	4/16/83 - 5/16/83	1.00
TAYLOR, Howard	Crop Production	UE	4/14/83 - 6/1/83	1.50
JANICK, Jules	Horticulture	UE	5/11/83 - 6/9/83	1.00
COLLINS, Michael	Forages Nutritive Value Testing	IUTAD	2/21/83 - 3/28/83	1.25
TYLER, Horace	Teaching/Learning Resource Center	IUTAD	6/5/83 - 6/25/83	.75
MOSES, David	Teaching/Learning Resource Center	IUTAD	6/5/83 - 7/29/83	1.75
BASSETT, Day	Hydraulics and Soil Erosion	IUTAD	7/15/83 - 8/26/83	1.50

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Advisory Assignments Completed

Name	Area	University	Dates	PM
BACHE, David H.	Farm Management/Farm Accounting	UE	10/1 - 10/30/1983	1.00
MONKE, Edwin J.	Irrigation and Drainage	UE	10/14 - 11/14/1983	1.00
McGUIRE, William S.	Forage and Pastures	UE	10/14 - 11/17/1983	1.00
FRIDAY, William H.	Agricultural Machinery	IUTAD	9/15 - 11/15/1983	2.00
FRANZMEIER, Donald P.	Soil Survey/Mapping	IUTAD	9/22 - 10/21/1983	1.00
MARTIN, Truman G.	Research Methods and Approaches	IUTAD	9/22 - 11/3/1983	1.50
LECHTENBERG, Victor L.	Research Methods and Approaches	IUTAD	9/22 - 11/3/1983	1.50
WHITEHURST, Clinton H.	General Management	IUBI	9/1 - 12/31/1983	1.50

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APPENDIX B

Training Programs Completed or in Progress from  
August 25, 1980 - February 25, 1984

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PORTUGAL UNIVERSITY INSTITUTES DEVELOPMENT PROJECT  
(Contract AID/NE-C-1701)

Participants -- IUBI

Name	Period of Training		Area of Training	Institutions
Passos MORGADO	7/15/80 - 7/28/80		Textile Engineering/Regional Planning Project	Purdue and Clemson Universities
Fernando de JESUS	7/15/80 - 7/28/80		Textile Engineering/Regional Planning Project	Purdue and Clemson Universities
Jose Mendes LUCAS	8/16/81 - 6/30/83	(MS)*	Color Science	Clemson University
Joao LISBOA	8/29/81 - 1/31/82**		Business Management	Univ. of Wisconsin
Maria AMORIM	8/15/82 - 10/22/82		Textile Production/Polymers	Clemson University
Jose FIADEIRO	8/15/82 - 10/22/82		Textile Chemistry/Effluent Treatment	Clemson University
Alberto PEREIRA	8/8/83 - 3/85	(MS)	Administration and Decision Making (Management)	Clemson University
Mario NUNES	1/4/83 - 8/84	(MS)	Textile Science/Rheology	Clemson University
Mario de Prata BARROS	1/4/83 - 8/84	(MS)	Industrial Management	Clemson University
Joao LISBOA	8/8/83 - 3/85**	(MS)	Quantitative Methods	Clemson University
Amandio Pereira BAIA	1/4/84 - 7/4/85	(MS)	Industrial Management	Clemson University
Nicolau RAPOSO	10/22 - 11/18/83		Teaching/Learning Resource Ctr.	Clemson University, Univ. of Wisconsin, and Purdue University

\* From 7/1/83 through 12/1983, Lucas will complete MS degree from outside funding.

\*\* Lisboa commenced MS program on 8/24/81 but dropped in 1/31/82; he enrolled at Clemson to commence MS program on 8/8/83.

PORTUGAL UNIVERSITY INSTITUTES DEVELOPMENT PROJECT  
(Contract AID/NE-C-1701)

Participants -- IUTAD

Name	Period of Training	Area of Training	Institutions
Virgilia P. ANDRADE	6/30/80 - 7/17/80	Livestock Extension	Purdue University
Orlando ALMEIDA	6/30/80 - 7/17/80	Livestock Extension	Purdue University
Teles M. OLIVEIRA	1/1/81 - 12/31/81 (MS)	Soil Conservation & Tillage	Univ. of Wisconsin
Carlos P. SEQUEIRA	1/1/81 - 12/31/81 (MS)	Animal Nutrition	Cornell University
Francisco REGO	8/22/81 - 12/19/81	Forestry	University of Idaho
Artur CRISTOVAO	9/7/81 - 10/24/81	Rural Extension	Purdue & Univ. of Wisconsin
Jaime Sales LUIS	9/20/82 - 6/19/83 (MS)*	Forest Management	Oregon State University
Nuno MOREIRA	7/19/82 - 8/30/82	Forage Production	Purdue Univ., Univ of Wisconsin, Univ. of California-Davis
Alberto SANTOS	7/4/82 - 8/7/82	Micropropagation of Nut Trees	Universities of Purdue, Florida, Georgia, Missouri, California-Davis & Oregon
Jorge COLACO	8/2/82 - 9/30/82	Livestock Reproduction	Purdue Univ., No. Carolina State Univ, Univ. of Illinois & Canada meetings
Alberto CARDOSO	8/1/82 - 11/30/82	Cooperative Organization	Purdue Univ. & U. of Wisc.
Armando Afonso MARTINS	9/4/82 - 11/3/82	Soil Mapping	Purdue University
Jose POTES	8/1/82 - 9/26/82	Animal Reproduction	Purdue Univ. & Canada meetings
Arlete M. FERREIRA	4/8/83 - 7/8/83	Enology	Univ. of California-Davis

\*From 6/20/83 until 6/19/83 pursued MS under project funding; received outside funding to complete M.S. program in 6/1984.

PORTUGAL UNIVERSITY INSTITUTES DEVELOPMENT PROJECT  
(Contract AID/NE-C-1701)

Participants -- IUTAD (continued)

Name	Period of Training	Area of Training	Institutions
Fernando N.F. REAL	5/10/83 - 6/15/83	Teaching/Learning Resource Center & Coop. Extension	Purdue Univ. Univ. of Wisconsin
Antonio MACHADO	6/15/83 - 8/12/83	Farm Buildings	Purdue Univ., Agr. Eng. Meetings, Bozeman, MO.
Carlos ABREU	6/8/83 - 8/6/83	Plant Pathology	Purdue Univ, Univ. of Georgia, Int'l. work- shop, Bozeman, MO.
Fernando MARTINS	7/5/83 - 9/7/83	Potato Production	Purdue Univ., No. Carolina Research Ctr., Universities of Wisconsin, Oregon, Washington & Potato Assoc. Meetings at Lansing, MI
Eduardo ROSA	7/5/83 - 10/2/83	Horticulture	Rutgers University
Jorge AZEVEDO	6/18/83 - 9/22/83	Small Ruminant Production	California State Poly- technic Univ., Utah State & Purdue Universities, Ani. Sci. Meeting at Pullman, WA.

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PORTUGAL UNIVERSITY INSTITUTES DEVELOPMENT PROJECT  
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Participants -- UE

Name	Period of Training	Area of Training	Institutions
Maria Jose BARRISCO	1/9/81 - 3/9/81	Equine Reproduction	Texas Stock Breeders, Universities of Purdue, Colorado State, N. Mexico, and California-Davis
Maria das Mercedes COVAS	6/15/81 - 8/15/81	Home Economics	Univ. of Georgia
Victor M.C. DORDIO	6/1/81 - 9/1/81	Farm Management & Finance	Iowa State, Purdue Univ.
Artur A.M. MARINHO	8/31/81 - 12/4/81	Microbiology of Animal Nutrition	Nat'l. Animal Center, Ames, Iowa, Purdue, Virginia Polytech
M. Leonor CARVALHO	8/24/81 - 12/19/81	Regional Implications of EEC Entrance	Purdue University
Ana Maria VASCONCELOS	1/4/82 - 3/25/82	Wine Quality & Grape Production	University of Calif.-Davis
Maria Benedita CECILIO	1/4/82 - 6/13/82	Economics of Ag Technology	Univ. of Minnesota
Ricardo P. SERRALHEIRO	7/31/82 - 10/30/82	Irrigation	Univ. of Arizona, Utah State, Colorado State, California- Davis, Irrigation Conference at Jackson, MS
Manuel O.C. ABREU	8/15/82 - 12/12/82	Animal Nutrition	Texas A&M
Ermelinda V.L. PINHEIRO	8/16/82 - 11/16/83 (MS)	Forage Production	Iowa State University
Francisco M. RAMOS	8/17/82 - 12/18/82	Extension Methods & Farm Mgmt.	Univ. of Wisconsin
M. Manuela M. BATISTA	9/18/82 - 12/5/82	Soil Chemistry/Soil Laboratory Management	No. Carolina State, Univer- sities of Arizona & Cali- fornia-Riverside, Soil Sci. Meetings at Los Angeles, CA

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PORTUGAL UNIVERSITY INSTITUTES DEVELOPMENT PROJECT  
(Contract AID/NE-C-1701)

Participants -- UE (continued)

Name	Period of Training	Area of Training	Institutions
Eduardo FIGUEIRA	1/4/83 - 1/85 (MS)	Extension Education	Univ. of Wisconsin
Ofelio BENTO	5/15/83 - 7/17/83	Livestock Nutrition	Purdue Univ., Dairy Science Meetings at Madison, WI
Jose Tirapicos NUNES	7/16/83 - 12/10/83	Livestock Production	Purdue, Utah State, Texas A&M, Virginia Polytech/USDA Sheep Exp. Station, Idaho, Ani. Sci. Meetings at Pullman, WA
Jose AVO	7/22/83 - 12/17/83	Livestock Management (Sheep)	Utah State, Purdue, Texas A&M, Ani. Sci. Meetings at Pullman, WA
Carlos ROQUETE	7/22/83 - 12/17/83	Livestock Management (Beef)	Utah State, Texas A&M, Purdue, Ani. Sci. Meetings at Pullman, WA
Carlos MARQUES	1/5/84 - 1/5/86 (MS)	Agricultural Economics (Production Economics)	Purdue University
Amilcar SERRAO	1/5/84 - 1/5/86 (MS)	Agricultural Economics (Farm Management)	Purdue University

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