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



**PORTUGAL UNIVERSITY  
INSTITUTES  
DEVELOPMENT PROJECT**

(Contract AID/NE-C-1701)

**THIRD SEMI-ANNUAL REPORT**  
**August 25, 1981 to February 25, 1982**

**PORTUGAL UNIVERSITY INSTITUTES DEVELOPMENT**

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

**THIRD SEMI-ANNUAL REPORT**

**AUGUST 25, 1981 TO FEBRUARY 25, 1982**

**Submitted to**

**Agency for International Development**

**by**

**Division of International Programs in Agriculture**

**School of Agriculture**

**Purdue University**

**West Lafayette, IN**

**January, 1983**

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PORTUGAL UNIVERSITY INSTITUTES DEVELOPMENT PROJECT  
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THIRD SEMI-ANNUAL REPORT

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INTRODUCTION AND SUMMARY

The third semi-annual report summarizes the activities during the past six months of the Purdue/AID Portugal University Institutes Development Project. The program commenced on August 25, 1980 and will continue for four years. The objective of the program is to assist three Portuguese university institutes with their development efforts. The three universities are:

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

Clemson University is assisting Purdue, under a subcontract, with the program in Covilha. Clemson provides short-term advisors knowledgeable in the different areas of textiles and hosts long- and short-term trainees who are seeking additional training pertaining to textiles.

Both the training and technical assistance activities have greatly accelerated and are progressing well. During this reporting

period, two short-term advisors completed assignments at Evora and so far eight have been identified for assignments during the remainder of 1982. Two long-term trainees have completed their graduate studies -- one received a Master of Science degree and the other a Ph.D. degree. Another trainee commenced his training for a Master of Science degree in August but terminated his studies in January and returned to Portugal. Another Portuguese faculty member is currently at Clemson working towards a Master of Science degree. Two short-term trainees completed their programs during this period and two commenced programs.

At the beginning of this reporting period, four long-term project coordinators were in place at the three institutes. However, since the middle of December, the long-term advisor position has been vacant. Dr. Julian H. Atkinson received approval to return to the United States after completing approximately fifteen months of this twenty-four month assignment.

The Project Implementation Plan submitted by Purdue in April 1981 was evaluated and revised at the Project Review Meeting held in Lisbon on November 19 - 20, 1981. The major revisions in the IP involved changes in the training and technical assistance schedules. Although Purdue has not received notification that the IP was approved, we anticipate that it will be.

A major attempt has been made to identify an individual to fill the long-term advisor position at Covilha, left vacant by Dr. Atkinson. A number of people were identified but were rejected by Covilha. The search continues as a top-priority activity.

The number of trainees and short-term advisors has greatly increased for 1982. Considerable time and effort is being devoted to identifying and preparing advisors for assignments in Portugal and developing programs and assisting trainees coming to the United States.

#### PROJECT STAFF

##### Long-Term Staff in Residence in Portugal

Dr. Julian H. Atkinson continued in his position as the Purdue University Project Coordinator in the field and as Project Coordinator at Covilha until December 1981. Dr. Atkinson returned to the United States on December 19 after completing fifteen months of this two year assignment.

Prof. John R. Foley, Agricultural Engineer and Extension Specialist at Purdue, remains as Project Coordinator at Vila Real. In January, 1982, Professor Foley assumed the duties as Purdue's overall project coordinator from Dr. Atkinson. Professor Foley arrived in Portugal in August 1980 and will complete his tour-of-duty in August 1982.

Dr. John H. Sanders, Associate Professor of Agricultural Economics, Purdue University, remains as Project Coordinator at the Universidade de Evora. He commenced his assignment on March 12, 1981 and will return to the United States in March 1983.

Dr. James L. Ahlrichs, Professor of Agronomy at Purdue, serves as a Visiting Scientist at Vila Real. He is assisting the university

at Vila Real to strengthen their educational programs in agricultural sciences and in soil research and testing. Dr. Ahlrichs' two year assignment will end in January 1983.

#### Short-term Professional Advisors

Two short-term professional advisors were on assignment at the Universidade de Evora during this reporting period -- Dr. Jules Janick, Professor of Horticulture, Purdue University and Dr. Dennis Johnson, Consultant and formerly Assistant Professor at the University of Houston. Their activities while at Evora are described under the following section of this report, "Project Activities."

#### On-Campus Staff -- Purdue University and Clemson University

The professional and administrative staff at Purdue and Clemson remains unchanged. Dr. Hassan Behery continues in the role of On-Campus Coordinator for the subcontract between Purdue and Clemson to cover the textile portion of the Project. Dr. James L. Collom serves as the on-campus Coordinator and Vivian Rider as the Administrative Assistant/Executive Secretary on the Purdue campus.

### PROJECT ACTIVITIES

#### Long-Term Professional Staff Activities

Activities of the long-term professional staff at the three university institutes were numerous and varied. Following are but a few examples.

Dr. Julian H. Atkinson, from August to December, 1981, devoted a

considerable amount of time to Project administrative duties. Most of November was spent in preparation for and involvement in the Project Annual Review. As a result of the review, Dr. Atkinson and the Covilha administrators spent additional time re-evaluating and making revisions in the short-term advisor and trainee schedules.

A number of visitors were at Covilha during this reporting period. Dr. Atkinson assisted with making preparation for and hosting the visitors. A few of the visitors included the U.S. Ambassador; Dr. Paul Farris, Head of the Agricultural Economics Department at Purdue; and Dr. D. Woods Thomas, Director of the Division of International Programs in Agriculture at Purdue. Dr. Atkinson made preparations for the visit of Dr. Jules Janick and scheduled seminars to be presented by Dr. Janick as part of his short-term assignment at the Universidade de Evora.

Dr. Atkinson ended his assignment at Covilha and returned to Purdue University on December 20, 1981. Much of the early part of December was spent in wrap-up activities and attempting to identify a qualified replacement for his position.

Prof. John R. Foley continued to carry out a number of administrative duties as Project Coordinator at Vila Real. After the departure of Dr. Atkinson, Professor Foley assumed the responsibilities of Chief-of-Party for the Project in January 1982. As a result, his administrative duties increased substantially. He attended various administrative meetings with AID and Ministry of Agriculture personnel, a joint meeting attended by administrators of the three university institutes and the Ministry of Education and

Direction Regional staff. In November he assisted in preparing for the Annual Project Review and attended the review meetings in Lisbon the latter part of the month. The week following the review was spent in summary meetings and revising the short-term advisor and trainee schedules.

Professor Foley coordinated programs for a number of Vila Real visitors as well as scheduling seminars presented by Dr. Jules Janick, short-term advisor on assignment at Evora. Professor Foley returned to the United States for two weeks in January on emergency leave. He took advantage of the trip to spend time at Purdue with project administrators to discuss Project plans for 1982 and the revised schedules for the advisors and trainees.

Dr. John H. Sanders was in the U.S. during the first several weeks of the reporting period on vacation leave. He spent four days at Purdue discussing the Project with the on-campus coordinator, various department heads and potential short-term advisors. Upon his return to Evora, he met with the Reitor to plan the short-term advisory and training schedules for the coming year. He completed preparations for two trainees from Evora, Maria B. Cecilio and Ana Maria de Vasconcelos to come to the United States for training. He prepared for and assisted with Dr. Jules Janick's short-term assignment. He has been working with management and economic professors at Evora on technological change in cereal production, wheat policy and linear programming analysis. He assisted the Evora administrators in making preparations for the Annual Review meetings and attended the review meetings in Lisbon. He prepared a plan of

work for the upcoming visits of short-term advisors Dennis Johnson and Earl Heady. He made arrangements for and co-hosted visitors to the University Institute; visitors including Mr. Roger Fox, leader of economic policy analysis for the PROCALFER Project, D. Woods Thomas, James L. Collom, and Paul Farris, Purdue University. A good deal of time was spent dealing with the purchase of two pieces of equipment -- an auto-analyzer II and a furnace induction for the soils laboratory. Routine administrative duties consumed some of Dr. Sanders' time.

Dr. James L. Ahlrichs continued to advise and assist the staff at Vila Real in soil testing efforts. The first 300 kg. of soil was collected for planned experiments on lime requirement tests. He reported that some of the PROCALFER-funded soil testing equipment was received. Various new studies and experiments were commenced -- fertility experiments on wheat and forages, utilization of ammoniated roughage and lime requirement tests, liming needs for the Tras-os-Montes soils, and a survey study of the Tras-os-Montes corn fields, to name a few. Dr. Ahlrichs assisted the soil teachers in planning their courses and preparing classroom materials for the second semester. He presented a seminar and attended several professional conferences. The University arranged for a British couple to teach English to future trainees. Dr. and Mrs. Ahlrichs have been assisting them by offering supplemental classes for the trainees who need additional help in order to meet the English exam standards.

### Short-Term Professional Advisor Activities

Two short-term advisors were on assignment during this reporting period, one at Evora and one at Vila Real.

Dr. Jules Janick, Professor of Horticulture, Purdue University, commenced his one month tour-of-duty on September 10. He served as an advisor in the area of horticulture at the Universidade de Evora. Contact was made and conferences held with agricultural technicians, students, professors, university administrators and AID Mission personnel during his visit. Dr. Janick travelled extensively throughout the horticultural and agricultural regions of Portugal. He reviewed the activity of technical projects, research stations, universities, private farms, food processing plants, irrigation projects and cooperatives in the regions of Evora, Vila Real, Coimbra, Santarem, Faro and a one-day visit to the Badajoz Project in Spain. He presented a series of seminars (in Portuguese) at Evora, Porto, Vila Real, Coimbra, Santarem, Faro and Lisbon on the various aspects of horticulture. He made a number of recommendations to the Universidade de Evora on the horticultural program particularly in regards to research emphasis. The Universidade de Evora has requested that Dr. Janick return for a second assignment in 1983.

Dr. Dennis Johnson, consultant from Houston, Texas, is currently serving as a short-term advisor at the Universidade de Evora. He commenced his two month assignment on January 2, 1982. Dr. Johnson accepted the position to provide assistance to the faculty and technical staff at Evora, and to allied agencies in Evora and Lisbon,

who are concerned with the overall subject of rural land-use planning and its relevance and relationship to regional development. Dr. Johnson will return to the United States on March 3. A more detailed description of his activities will follow in the next semi-annual report.

#### Annual Project Review

Dr. D. Woods Thomas, Director of International Programs in Agriculture at Purdue University, represented the contractor at the Annual Project Review Meetings held in Lisbon on November 19 - 20, 1981. Attendees included MEU staff, administrators and Purdue project coordinators from each of the university institutes, and AID/W and AID/Lisbon personnel.

The first day of the meetings was spent reviewing general Project activities and the Vila Real and Evora project components. During the second day, Covilha's project activities were reviewed. The remainder of the second day was spent discussing the Implementation Plan, submitted by Purdue, and on program financial support and budgetary matters. The review covered general project objectives, specific objectives of the program, accomplishments to date, problem areas and revised future programs. The universities suggested changes in short-term advisor and trainee schedules. The revisions were reviewed and incorporated into the Implementation Plan. Purdue then resubmitted the revised IP to the AID Mission and the three university institutes for final approval.

### Search for Long-Term Advisor at Covilha

Purdue has made, and continues to make, every effort to identify an appropriate replacement for the vice-Atkinson position at Covilha. A number of people have been contacted at Purdue, Clemson and various locations around the country to inquire of their interest in the position. A more detailed report on this activity is given under the section of this report entitled "Administrative and Logistical Support."

### PROCALFER (Ministry of Agriculture/USDA) Project

Cooperation between the University Institutes Development Project and the PROCALFER Project continues. PROCALFER is purchasing soil testing equipment which will be installed in the soils laboratory at Vila Real. Vila Real will utilize the equipment for their own needs and will, in return for the equipment, carry out soil analyses for the PROCALFER Project. Some of the equipment has now been received and is in place.

Dr. James L. Collom, Co-Chairman of the PROCALFER Advisory Committee, participated in evaluation meetings for Phase I of the Agricultural Production Project. The meetings were held in Lisbon on February 10 - 18. While in Portugal on the PROCALFER assignment, Dr. Collom extended his visit by several days in order to meet with AID Mission personnel, project coordinators and institute staff members to discuss the status of the Portugal Institutes Project.

### Identificaton of Short-Term Professional Advisors

Considerably more time is being expended to identify appropriate advisors for short-term assignments and in orientation sessions. The 1982-83 schedules included a significant increase in the number of advisors than in the previous year. Every effort is being made to fill the schedules. Five people have been identified for visits during the next several months. The are: Dr. Robert Taylor and Dr. Marshall Martin, Department of Agricultural Economics, Purdue University, will be at Vila Real; Dr. Leon Garoyan, Cooperative Extension Service, University of California/Davis will go to Vila Real; Dr. Dan Edie, Textile Department, Clemson University and Dr. Hassan Behery, School of Textiles and on-campus coordinator at Clemson, have accepted assignments at Covilha.

### Miscellaneous Project Activities

As reported in the last Semi-Annual Report, Dr. James L. Ahlrichs initiated an effort to strengthen the Vila Real library by soliciting unused sets of scientific journals from Purdue staff members. As a result, one set of Poultry Science journals and one set of Hort Science journals were shipped to Vila Real. More journals have been promised.

Dr. Jules Janick, during his short-term assignment at Evora and Vila Real, suggested that blueberries should be introduced as a horticultural crop at Vila Real. Because of the acidity of the soil of the Vila Real region, he felt they had great potential. Upon his return to Purdue, he investigated a number of varieties to determine

the which would adapt best to the climate and soil in Portugal. A total of fifty plants were identified, ordered and shipped to Vila Real. Twenty-five of the plants were donated to the Project by a nursery in North Carolina.

#### EDUCATIONAL AND TRAINING PROGRAMS

##### Advanced Degree Educational Programs

Two faculty members from Portugal completed their advanced degree training and two commenced their graduate studies in the United States during this reporting period.

Manuel Teles de Oliveira completed his graduate work in Agronomy and received a Master of Science Degree from the University of Wisconsin. He returned to Vila Real in December 1981.

Carlos Alberto Sequeira completed his training at the University of Wisconsin and received a PhD degree in Animal Nutrition. He returned to Vila Real in December 1981.

Jose Mendes Lucas, Covilha, was at Clemson University for short-term training, as reported in the last Semi-Annual Report. He was due to complete his training and return to Portugal on December 15, 1981. However, before his training was completed, and after receiving the appropriate approvals, he applied for admission to the Clemson Graduate School and was accepted as a Master of Science candidate in the School of Textiles. He is expected to complete his graduate work by approximately June 1, 1983.

Joao Verissimo Lisboa, Covilha, arrived at the University of Wisconsin on August 29, 1981 to commence study towards a Master of

Science Degree in Business. Even though Mr. Lisboa was an outstanding student and ranked at the top in several of his classes, he opted to discontinue his studies and return to Portugal at the end of January 1982.

#### Non-degree Specialized Training

Four short-term trainees commenced training during this reporting period. They are:

Artur Cristovao, Vila Real, whose training focused on extension administration, including quality and functions of extension personnel and the management and administration of personnel. He also studied evaluation and career planning for personnel and planning and evaluation of personnel training programs. Mr. Cristovao's program was carried out at Purdue and at various counties throughout Indiana from September 7 through October 24, 1981.

Ana Maria Vasconcelos, Evora, arrived in the United States on January 4, 1982 and will return to the University of Evora on March 25, 1982. Ms. Vasconcelos is working with Dr. Densmoor Webb and Dr. G. S. Ough at the University of California/Davis. Her program consists of work on wine quality research, the study of grape production and learning new gas chromatography techniques which are valuable for measuring the quality of wines.

Artur A. Marinho, Evora, was interested in learning new techniques for the manipulation of pure cultures of rumen bacteria. He worked for one month with Dr. Milton Allison at the North Central Region of the National Animal Disease Center at Ames, Iowa. he

attended a two-week course in anaerobic bacteriology at the Virginia Polytechnical Institute. The remainder of this time was spent at Purdue working with scientists knowledgeable in the field of microbiology and animal science. Mr. Marinho's training was from August 31 to December 4, 1981.

Maria B. Cecilio, Evora, is currently at the University of Minnesota working in the area of organization of agricultural research. She is enrolled in the following courses: macroeconomic theory, economics of world agriculture, agriculture prices, interim marketing price analysis and an agricultural development seminar. She will be at Minnesota from January 4 to June 12, 1982.

In the last Purdue report, two trainee programs were listed as being in progress and have now been completed.

Francisco Rego completed a semester at the University of Idaho in planning and planting for fire control in mountainous regions and planning and planting to improve mountain pastures for sheep and goats. He returned to Portugal on December 19, 1981.

Leonor Carvalho returned to Evora on December 19, 1981. She attended courses at Purdue during the Fall Semester. She was enrolled in Ag. Econ 652 (Mathematical Programming) and Ag Econ 644 (Advanced Agricultural International Trade). She also audited English 001 and Ag Econ 614 (Economics of Production).

#### COMMODITIES FOR PROJECT USE

The following items were requested by the three university institutes. They were purchased out of dollar contract funds and

shipped during the past six months.

1. Sho-slide pages for filing slides -- to Vila Real.
2. Projector bulbs -- to Vila Real.
3. Calculator batteries -- to Vila Real.
4. Blueberry plants -- to Vila Real.
5. Numerous books and publications to each of the institutes.

#### ADMINISTRATIVE AND LOGISTICAL ISSUES

##### Vice-Atkinson Position at Covilha

Purdue University continues to give top priority to filling the long-term position at Covilha left vacant by Dr. Julian Atkinson. The following describes, chronologically, the efforts to identify the appropriate person for this position.

Prior to Dr. Atkinson's departure from Covilha, a Purdue faculty member, Dr. Mahlon Lang, was nominated for the position. He was prepared to arrive in Portugal prior to Dr. Atkinson's departure in order to ensure a smooth transition. Dr. Lang's resume was provided to AID/Lisbon and to Covilha for review. He was found to be unacceptable because Covilha desired a professional with a different educational background and experience.

During the Project Review, it was decided that the position should be filled by a person with industrial management and regional development experience.

After Dr. Thomas returned from the review meetings, he and Dr. Collom identified five candidates who expressed interest in the

position and who possessed the qualifications required. In February, Dr. Collom was in Portugal on another assignment and he hand-carried the resumes of the five candidates to the Mission and provided Covilha with copies. He then discussed each of the nominees with the Mission personnel and with Dr. Passos Morgado, Reitor at Covilha. The Mission made no specific judgements, but Dr. Morgado rejected all of the candidates. While specific reasons for rejecting each individual were not given, he implied that he preferred someone with more direct experience in the management of industrial production processes. Dr. Morgado also indicated that there was no urgency to have a person in place before October 1982.

Purdue is continuing its search for the appropriate person but the task has been made exceedingly difficult due to the lack of a clear statement of qualifications which will be accepted coupled with rejection of people who seem to meet the qualifications provided Purdue.

#### Project Implementation Plan

Since the revised Implementation Plan was provided to the Mission and each of the three Portuguese institutes by Purdue in January 1981, Purdue has not received notification that the revised IP was approved. This has caused some confusion on our part since the 1982 schedules received from the three institutes for short-term advisors and for trainees are based on the revised schedules. We have been unsure about which schedules should be followed. We are attempting to get this situation clarified.

### Predeparture Orientation for Advisors

It was suggested at the Project Review Meetings that Purdue attempt to provide more in-depth orientation to advisors departing to Portugal. This is being accomplished in several ways.

A handbook was developed and a copy provided to each advisor well in advance of his departure. This handbook includes a brief summary of the project objectives and procedures for the advisor to follow in preparing for his trip. The procedures include such things as required authorizations, pre-departure physical examination, obtaining airline tickets, baggage information, etc. In addition, there is a section on logistical support to be provided while in Portugal. A contact list of project personnel, including addresses and telephone numbers, is also a part of the handbook.

Additional publications have been obtained which provide general information on Portugal, information on the university institutes, and reports on agriculture, rural development, extension, economic trends, and textiles. Applicable end-of-tour reports prepared by returned advisors are also used as part of the orientation. A set of this material is given or loaned to advisors well in advance of their departure.

A language textbook on peninsular Portuguese and a set of accompanying cassette tapes have been made available to project staff who feel the need to brush up on their Portuguese.

Purdue staff who have returned from an assignment in Portugal and have slides of the applicable area present slide shows and answer

questions for the departing advisor. This portion of the orientation was proved to be quite successful. The returned advisor is able to show and describe the region and is able to answer questions because of his first-hand knowledge.

### Airline Tickets

As we have stated in each semi-annual report, securing airline tickets from Portugal for project travellers causes many hassles and the procedure is not working adequately. It is consuming a large amount of administrative time which could be used more appropriately on other project activities.

Often the prepaid ticket authorization does not arrive on time. Occasionally duplicate reservations are made. Tickets arrive made out inappropriately. Delays in departures and returns are encountered due to the restrictive use of Portuguese airlines (TAP). Moreover, the cost of TAP fares are approximately \$300 more per ticket.

The Implementation Agreement, as we interpret it, specifies that international travel is to be provided out of the escudo budget funds, but it does not, as far as we know, state that Portuguese air carriers must be used.

The problem could be resolved by transferring international travel to the dollar side of the budget so that tickets could be purchased at the point of departure. Or, as a less effective alternative, the use of both TAP and U.S. carriers should be allowed in order to provide more flexibility and a more effective means of handling ticketing in small towns and last minute changes.

### Project Vehicles

The Second Semi-Annual Report stated that project vehicles had not yet been purchased and that the lack of the vehicles was creating a handicap for project staff. We have since been informed that this problem no longer exists. Each university now has vehicles available for project activities.

### PROJECTED ACTIVITIES FOR NEXT SIX MONTHS

Projected activities will include a continuation of current activities plus others which will be initiated.

Some of the most significant of these activities will include:

1. Identify and place a long-term project coordinator at Covilha to fill the position left vacant by Dr. Atkinson.
2. Continued activities by the Purdue long-term advisors in-residence at the cooperating Portuguese institutes to fulfill the objectives of the program.
3. Identify, prepare and send short-term advisors to each of the three university institutes. A substantially larger number of advisors are scheduled for the remainder of 1982. Individuals who have already been identified for assignments are:
  - Dr. R. L. Taylor - 5 week assignment at Vila Real in

Small Farm Management.

- Dr. M. M. Martin - 5 week assignment at Vila Real in Agricultural Economics.
  - Dr. L. Garoyan - 1 month assignment at Vila Real in Farm Support Systems (Cooperatives) and Marketing and Agricultural Production.
  - Dr. M. Collins - 2 month assignment at Vila Real in Forage Nutritive Value Testing.
  - Dr. E. C. Carter - 1 month assignment at Evora in Pasture and Forage Production.
  - Dr. E. O. Heady - 5 week assignment at Evora in Farm Management and Production Economics.
  - Dr. D. Edie - 2 month assignment at Covilha in Rheology.
  - Dr. H. Behery - 5 week assignment at Covilha in Fiber and Textile Physics.
4. Continue to assist and plan programs for a sharply increased number of Portuguese faculty members to come to the U.S. for short-term, M.S. and Ph.D. training.
  5. Coordinate and plan an extension training workshop to be held at Purdue and the University of Wisconsin for PROCALFER and Portugal university institute trainees.
  6. Obtain the necessary authorization to give Purdue credit for a course being offered at Vila Real in June 1982.

7. Revise the Clemson University subcontract and the Purdue budget if the Revised Implementation Plan is approved.

#### PROJECT BUDGTARY SUPPORT

The amount spent or committed against the dollar budget through March 31, 1932 amounts to \$734,187. The dollar budget for year two of the Project totals \$1,112,463 which leaves a balance of \$1,248,560 for years one and two. The expenditures include billings from Clemson University for expenses incurred under the Purdue/Clemson subcontract. Table 1 is attached which summarizes the dollar budget.

It is anticipated that, if and when the Revised Implementation Plan is approved, the Clemson subcontract and the Purdue budgets for the remaining two years of the contract will need to be ammended. This will be necessary because of the increased number of man-months scheduled for both trainees and short-term advisors.

**TABLE I**

**DOLLAR BUDGET FOR PERIOD ENDING 3/31/82**

**Dollar Budget, Portugal University Institutes Development Project  
Life of Project Funding, 1980-1984**

	Total 4 Year Budget	Year 1 Budget	Year 2** Budget	Spent/ Committed Thru 3/31/82	Balance Years 1 and 2	Year 3** Budget	Year 4** Budget	Four Year Balance
Salaries and Wages	\$1,152,472	\$ 362,010	\$ 451,036	\$ 382,925	\$ 430,121	\$ 246,413	\$ 93,013	\$ 769,547
Fringe Benefits	330,543	107,054	127,669	70,382	164,341	70,545	25,275	260,161
Travel & Transportation	43,015	16,175	9,670	6,277	19,568	13,170	4,000	36,738
Participant Training	629,695	152,250	245,775	81,345	316,680	87,820	143,850	548,350
Other Direct Costs	46,700	15,500	15,500	36,084	(5,084)	11,400	4,300	10,616
Indirect Costs	695,000	217,295	262,813	157,174	322,934	152,387	62,505	537,826
<b>TOTAL</b>	<b>\$2,897,425</b>	<b>\$ 870,254</b>	<b>\$1,112,463</b>	<b>\$ 734,187</b>	<b>\$1,248,560</b>	<b>\$ 581,735</b>	<b>\$ 332,943</b>	<b>\$2,163,238</b>

\*Actual expenses for Purdue portion of contract thru 2/28/82 only. Purdue 3/82 expenses estimated. Clemson subcontract only billed for expenses through 1/31/82, so figures shown include estimates for Clemson for 2/82 through 3/82.

\*\*Calculations based on original contract budget, not on revised budget figures submitted by AID/W and AID/Lisbon on 12/15/81.