

PD-ABE-833  
70393

A.I.D. Project Number 645-0212

Grant Agreement Number:

645-0212-G-00-1007-00

PROJECT  
GRANT AGREEMENT  
BETWEEN  
THE KINGDOM OF SWAZILAND  
and the  
UNITED STATES OF AMERICA  
for  
THE CROPPING SYSTEMS RESEARCH  
AND EXTENSION TRAINING PROJECT

Dated: August 28, 1981

16

Table of Contents

Project Grant Agreement

Page

Article 1:	The Agreement	
Article 2:	The Project	
SECTION 2.1.	Definition of Project	
SECTION 2.2.	Incremental Nature of Project	
Article 3:	Financing	
SECTION 3.1.	The Grant	
SECTION 3.2.	Grantee Resources for the Project	
SECTION 3.3.	Project Assistance Completion Date	
Article 4:	Conditions Precedent to Disbursement	
SECTION 4.1.	First Disbursement	
SECTION 4.2.	Additional Disbursement	
SECTION 4.3.	Notification	
SECTION 4.4.	Terminal Dates for Conditions Precedent	
Article 5:	Special Covenants	
SECTION 5.1.	Project Evaluation	
SECTION 5.2.	Establishment of Position	
SECTION 5.3.	Participants	
SECTION 5.4.	Counterparts	
SECTION 5.5.	Recurrent Budget	
SECTION 5.6.	Vehicles	
SECTION 5.7.	Housing	
Article 6:	Procurement Source	
SECTION 6.1.	Foreign Exchange Costs	
SECTION 6.2.	Local Currency Costs	
Article 7:	Disbursements	
SECTION 7.1.	Disbursement for Foreign Exchange Costs	
SECTION 7.2.	Disbursement for Local Currency Costs	
SECTION 7.3.	Other Forms of Disbursement	
SECTION 7.4.	Rate of Exchange	

Table of Contents  
Project Grant Agreement

	<u>Page</u>
Article 8:           Miscellaneous	
SECTION 8.1.     Communications	
SECTION 8.2.     Representatives	
SECTION 8.3.     Standard Provisions Annex	
Amplified Project Description	Annex 1

Table of Contents

Project Grant Standard Provisions Annex 2

	<u>Page</u>
Article A:	Project Implementation Letters
Article B:	General Covenants
SECTION B.1.	Consultation
SECTION B.2.	Execution of Project
SECTION B.3.	Utilization of Goods and Services
SECTION B.4.	Taxation
SECTION B.5.	Reports, Records, Inspections, Audits
SECTION B.6.	Completeness of Information
SECTION B.7.	Other Payments
SECTION B.8.	Information and Marking
Article C:	Procurement Provisions
SECTION C.1.	Special Rules
SECTION C.2.	Eligibility Date
SECTION C.3.	Plans, Specifications, and Contracts
SECTION C.4.	Reasonable Price
SECTION C.5.	Notification to Potential Suppliers
SECTION C.6.	Shipping
SECTION C.7.	Insurance
SECTION C.8.	U.S. Government-Owned Excess Property
Article D:	Termination; Remedies
SECTION D.1.	Termination
SECTION D.2.	Refunds
SECTION D.3.	Nonwaiver of Remedies
SECTION D.4.	Assignment

A.I.D. Project No. 645-0212  
Grant Agreement Number

Project Grant Agreement

Dated August 28 , 1981

Between The Kingdom of Swaziland ("Grantee")

And

The United States of America, acting through the  
Agency for International Development ("A.I.D.").

Article 1: The Agreement

The purpose of this Agreement is to set out the understandings of the parties named above ("Parties") with respect to the undertaking by the Grantee of the Project described below, and with respect to the financing of the Project by the Parties.

Article 2: The Project

SECTION 2.1. Definition of Project. The Project, which is further described in Annex 1, will consist of three major components: 1) Cropping systems research which involves a systems approach to the identification of farm problems as well as on-farm research trials and recommendations; 2) agricultural information which involves the expansion and improved capacity of the Agricultural Information Section within the Ministry of Agriculture and Cooperatives; and 3) the development and implementation of a comprehensive in-service training program for extension agents. Annex 1, attached, amplifies the above definition of the Project. Within the limits of the above definition of the Project, elements of the amplified description stated in Annex 1 may be changed by written agreement of the authorized representatives of the Parties named in Section 8.2, without formal amendment of this Agreement.

SECTION 2.2. Incremental Nature of Project.

(a) A.I.D.'s contribution to the Project will be provided in increments, the initial one being made available in accordance with Section 3.1 of this Agreement. Subsequent increments will be subject to availability of funds to A.I.D. for this purpose, and to the mutual agreement of the Parties,

Article 2: The Project (Continued)

at the time of a subsequent increment, to proceed. It is anticipated that, subject to the provisions in this paragraph, A.I.D.'s total contribution to the Project will be U.S. \$12,900,000.

(b) Within the overall Project Assistance Completion Date stated in this Agreement, A.I.D., based upon consultation with the Grantee, may specify in Project Implementation Letters appropriate time periods for the utilization of funds granted by A.I.D. under an individual increment of assistance.

Article 3: Financing

SECTION 3.1. The Grant. To assist the Grantee to meet the costs of carrying out the Project, A.I.D., pursuant to the Foreign Assistance Act of 1961, as amended, agrees to grant the Grantee under the terms of this Agreement not to exceed Three Million Four Hundred Six Thousand United States ("U.S.") Dollars (\$3,406,000) ("Grant"). The Grant may be used to finance foreign exchange costs, as defined in Section 6.1, and local currency costs, as defined in Section 6.2, of goods and services required for the Project.

SECTION 3.2. Grantee Resources for the Project

(a) The Grantee agrees to provide or cause to be provided for the Project all funds, in addition to the Grant, and all other resources required to carry out the Project effectively and in a timely manner.

(b) The resources provided by Grantee for the Project will be not less than the equivalent of U.S. \$4,354,000, including costs borne on an "in-kind" basis.

SECTION 3.3. Project Assistance Completion Date.

(a) The "Project Assistance Completion Date" (PACD), which is 30 September, 1987 or such other date as the Parties may agree to in writing, is the date by which the Parties estimate that all services financed under the Grant will have been performed and all goods financed under the Grant will have been furnished for the Project as contemplated in this Agreement.

(b) Except as A.I.D. may otherwise agree in writing, A.I.D. will not issue or approve documentation which would authorize disbursement of the Grant for services performed subsequent to the PACD or for goods furnished for the project, as contemplated in this Agreement, subsequent to the PACD.

Article 3: Financing (Continued)

(c) Requests for disbursement, accompanied by necessary supporting documentation prescribed in Project Implementation Letters are to be received by A.I.D. or any bank described in Section 7.1 no later than nine (9) months following the PACD, or such other period as A.I.D. agrees to in writing. After such period, A.I.D., giving notice in writing to the Grantee, may at any time or times reduce the amount of the Grant by all or any part thereof for which requests for disbursement, accompanied by necessary supporting documentation prescribed in Project Implementation Letters, were not received before the expiration of said period.

Article 4: Conditions Precedent to Disbursement

SECTION 4.1. First Disbursement. Prior to the first disbursement under the Grant, or to the issuance by A.I.D. of documentation pursuant to which disbursement will be made, the Grantee will, except as the Parties may otherwise agree in writing, furnish to A.I.D. in form and substance satisfactory to A.I.D.: A statement of the name of the person holding or acting in the office of the Grantee specified in Section 8.2, and of any additional representatives, together with a specimen signature of each person specified in such statement.

SECTION 4.2. Additional Disbursement. Prior to disbursement under the Grant, or to issuance by A.I.D. of documentation pursuant to which disbursement will be made, for each construction activity, the Grantee will, except as the Parties may otherwise agree in writing, furnish to A.I.D. in form and substance satisfactory to A.I.D.: (1) evidence that adequate sites have been identified and provided for each construction activity; and (2) final plans and specifications for each construction activity.

SECTION 4.3. Notification. When A.I.D. has determined that the conditions precedent specified in Sections 4.1 and 4.2 have been met, it will promptly notify the Grantee.

SECTION 4.4. Terminal Dates for Conditions Precedent.

(a) If all of the conditions specified in Section 4.1 have not been met within 90 days from the date of the Agreement, or such later date as A.I.D. may agree to in writing, A.I.D., at its option, may terminate this Agreement by written notice to Grantee.

1

Article 4: Conditions Precedent to Disbursement (Continued)

(b) If all of the conditions specified in Section 4.2 have not been met within the time set forth in Project Implementation Letters, A.I.D., at its option, may cancel the then undisbursed balance of the Grant, to the extent not irrevocably committed to third parties, and may terminate this Agreement by written notice to the Grantee.

Article 5: Special Covenants

SECTION 5.1. Project Evaluation. The Parties agree to establish an evaluation program as part of the Project. Except as the Parties otherwise agree in writing, the program will include, during the implementation of the Project and at one or more points thereafter: (a) evaluation of progress toward attainment of the objectives of the Project; (b) identification and evaluation of problem areas or constraints which may inhibit such attainment; (c) assessment of how such information may be used to help overcome such problems; and (d) evaluation, to the degree feasible, of the overall development impact of the Project.

SECTION 5.2. Establishment of Positions. The Grantee covenants to establish and fill the new positions and the positions currently unfilled set forth in Annex 1 to this Agreement.

SECTION 5.3. Participants. The Grantee covenants that candidates for participant training will be selected on a timely basis as set forth in the implementation plan in Annex 1 to this Agreement.

SECTION 5.4. Counterparts. The Grantee covenants to assign counterparts to each of the technical advisors.

SECTION 5.5. Recurrent Budget. The Grantee covenants to assume the recurrent budget costs for the Project.

SECTION 5.6. Vehicles. The Grantee covenants that all project vehicles will be used for this Project unless A.I.D. and the Grantee otherwise agrees in writing. The Grantee further covenants that it will replace all project vehicles as required.

SECTION 5.7. Housing. Except as otherwise agreed to by A.I.D. in writing, title to houses financed by A.I.D. under this Agreement will be vested in the Grantee. Notwithstanding that title is so vested, the Grantee covenants that: i) the house for the Agricultural Information Specialist will be reserved for the exclusive use of A.I.D.-financed technical assistance personnel working on this Project or other A.I.D.-

9

Article 5: Special Covenants (Continued)

financed projects in Swaziland, until such time as the Parties agree that this house is no longer required for the support of this or any other A.I.D.-financed projects in Swaziland; and ii) that the 14 houses for the field research assistants and Peace Corps Volunteers will be reserved for the exclusive use of this or a follow-on Project until such time as the Parties agree that these houses are no longer required.

The Grantee further covenants that it will provide permanent housing at Malkerns for all other A.I.D.-financed technical assistance personnel under this Project.

In the event that A.I.D.-financed housing or other permanent housing is not available for use by A.I.D.-financed technicians upon their arrival in Swaziland, the Grantee covenants to provide suitable temporary housing for such technicians and their families until such time as permanent housing is available.

Article 6: Procurement Source

SECTION 6.1. Foreign Exchange Costs. Except as provided below, and except as provided in the Project Grant Standard Provisions Annex, Section C.1(b) with respect to marine insurance, disbursements pursuant to Section 7.1 will be used exclusively to finance the costs of goods and services required for the Project having their source and origin in the United States (Code 000 of the A.I.D. Geographic Code Book as in effect at the time orders are placed or contracts entered into for such goods or services) ("Foreign Exchange Costs"), except as A.I.D. may otherwise agree in writing.

(a) Project equipment at an approximate cost of \$36,450 may have its source and origin in countries included in Code 935 of the A.I.D. Geographic Code Book as in effect at the time orders are placed or contracts entered into for such equipment.

(b) Light-duty project vehicles and motorcycles at an approximate cost of \$152,000 may have their source and origin in countries included in Code 935 of the A.I.D. Geographic Code Book as in effect at the time orders are placed or contracts entered into for such vehicles.

(c) Construction materials at an approximate cost of \$352,000 may have their source and origin in countries included in Code 935 of the A.I.D. Geographic Code Book as in effect at the time orders are placed or contracts entered into for such materials.

Article 6: Procurement Source (Continued)

SECTION 6.2. Local Currency Costs. Except as provided below, disbursements pursuant to Section 7.2. will be used exclusively to finance the costs of goods and services required for the Project having their source and, except as A.I.D. may otherwise agree in writing, their origin in Swaziland ("Local Currency Costs"). To the extent provided for under this Agreement, "Local Currency Costs" may also include the provision of local currency resources required for the Project. Imported shelf items in the approximate amount of \$300,000 may have their origin in Code 935 of the A.I.D. Geographic Code Book as in effect at the time such items are purchased.

Article 7: Disbursement

SECTION 7.1. Disbursement for Foreign Exchange Costs.

(a) After satisfaction of conditions precedent, the Grantee may obtain disbursements of funds under the Grant for the Foreign Exchange Costs of goods or services required for the Project in accordance with the terms of this Agreement, by such of the following methods as may be mutually agreed upon:

(1) by submitting to A.I.D., with necessary supporting documentation as prescribed in Project Implementation Letters, (A) requests for reimbursement for such goods or services, or, (B) requests for A.I.D. to procure commodities or services in Grantee's behalf for the Project; or,

(2) by requesting A.I.D. to issue Letters of Commitment for specified amounts (A) to one or more U.S. banks, satisfactory to A.I.D., committing A.I.D. to reimburse such bank or banks for payments made by them to contractors or suppliers, under Letters of Credit or otherwise, for such goods or services, or (B) directly to one or more contractors or suppliers, committing A.I.D. to pay such contractors or suppliers for such goods or services.

(b) Banking charges incurred by Grantee in connection with Letters of Commitment and Letters of Credit will be financed under the Grant unless Grantee instructs A.I.D. to the contrary. Such other charges as the Parties may agree to may also be financed under the Grant.

SECTION 7.2. Disbursement for Local Currency Costs.

(a) After satisfaction of conditions precedent, the Grantee may obtain disbursements of funds under the Grant for Local Currency Costs required for the Project in accordance with the terms of this Agreement, by submitting to A.I.D., with necessary supporting documentation as prescribed in

Article 7: Disbursement (Continued)

Project Implementation Letters, requests to finance such costs.

(b) The local currency needed for such disbursements may be obtained:

(1) by acquisition by A.I.D. with U.S. Dollars by purchase; or

(2) by A.I.D. (A) requesting the Grantee to make available the local currency for such costs, and (B) thereafter making available to the Grantee, through the opening or amendment by A.I.D. of Special Letters of Credit in favor of the Grantee or its designee, an amount of U.S. Dollars equivalent to the amount of local currency made available by the Grantee, which dollars will be utilized for procurement from the United States under appropriate procedures described in Project Implementation Letters.

The U.S. dollar equivalent of the local currency made available hereunder will be, in the case of subsection (b) (1) above, the amount of U.S. dollars required by A.I.D. to obtain the local currency, and in the case of subsection (b) (2) above, an amount calculated at the rate of exchange specified in the applicable Special Letter of Credit Implementation Memorandum hereunder as of the date of the opening or amendment of the applicable Special Letter of Credit.

SECTION 7.3. Other Forms of Disbursement. Disbursements of the Grant may also be made through such other means as the Parties may agree to in writing.

SECTION 7.4. Rate of Exchange. Except as may be more specifically provided under Section 7.2, if funds provided under the Grant are introduced into Swaziland by A.I.D. or any public or private agency for purposes of carrying out obligations of A.I.D. hereunder, the Grantee will make such arrangements as may be necessary so that such funds may be converted into currency of Swaziland at the highest rate of exchange which, at the time the conversion is made, is not unlawful in Swaziland.

Article 8: Miscellaneous

SECTION 8.1. Communications. Any notice, request, document, or other communication submitted by either Party to the other under this Agreement will be in writing or by telegram or cable, and will be deemed duly given or sent when delivered to such party at the following addresses:

11'

Article 8: Miscellaneous (Continued)

To the Grantee:

Mail Address: Permanent Secretary  
Prime Minister's Office  
Department of Economic Planning and  
Statistics  
P.O. Box 602  
Mbabane, Swaziland

Alternate address for cables: MINFIN, Mbabane,  
Swaziland

To A.I.D.:

Mail Address: Director U.S.A.I.D. Mission to Swaziland  
P.O. Box 750  
Mbabane, Swaziland

All such communications will be in English, unless the Parties otherwise agree in writing. Other addresses may be substituted for the above upon the giving of notice.

SECTION 8.2. Representatives. For all purposes relevant to this Agreement, the Grantee will be represented by the individual holding or acting in the office of Permanent Secretary, Prime Minister's Office, Department of Economic Planning and Statistics and A.I.D. will be represented by the individual holding or acting in the office of Director A.I.D. Mission to the Kingdom of Swaziland, each of whom, by written notice, may designate additional representatives for all purposes other than exercising the power under Section 2.1 to revise elements of the amplified description in Annex 1. The names of the representatives of the Grantee, with specimen signatures, will be provided to A.I.D., which may accept as duly authorized any instrument signed by such representatives in implementation of this Agreement, until receipt of written notice of revocation of their authority.

SECTION 8.3. Standard Provisions Annex. A "Project Grant Standard Provisions Annex" (Annex 2) is attached to and forms part of this Agreement.

12

Project No: 645-0212

IN WITNESS WHEREOF, the Grantee and the United States of America, each acting through its duly authorized representative, have caused this Agreement to be signed in their names and delivered as of the day and year first above written.

UNITED STATES OF AMERICA

THE KINGDOM OF SWAZILAND

By: Richard C. MacKerrow

By: [Signature]

Title: Ambassador

Title: Permanent Secretary, Dept. of Economic Planning & Statistics

Date: August 28, 1981

Date: August 28, 1981

By: Julius E. Cole

By: [Signature]

Title: Director, USAID/Swaziland

Title: Permanent Secretary, Ministry of Agriculture & Cooperatives

Date: August 28, 1981

Date: August 28, 1981

Project: 645-0212

Appropriation: 72-1111021.3

Allotment: 143-50-645-00-69-11

Amount: \$3,406,000.00

Funds Available: William F. Schrider  
William F. Schrider, Controller

13

## ANNEX 1

### AMPLIFIED PROJECT DESCRIPTION

Except as specifically provided herein, and within the limits of the definition of the Project set forth in Section 2.1., elements of this Amplified Project Description may be changed by written agreement of the authorized representative of the Parties named in Section 8.2 without formal amendment of this Agreement.

#### Article 1. General Project Description

The project consists of three major components:

1. Cropping Systems Research. The project will assist the MOAC to redirect its research efforts toward the SNL farmer. It involves a systems approach to the identification of farm problems as well as the research trials and recommendations that will emanate from the problem identification stage. On-farm research trials will be conducted by teams of Research Assistants, extension staff and farmers following a review of past research in Swaziland, a socio-economic base-line survey, and a technical survey of present cropping patterns and practices. The information gathering process will be a continuous one that will feed back to technical Research Officers at the various research stations. These Research Officers will provide the overall direction for the on-farm program and will conduct some applied research on-station as dictated by the findings of the field trials. A U.S. technical assistance team will design the research program and process in conjunction with the Chief Research Officer and other MOAC staff. Counterpart and on-the-job training will be provided and facilities constructed to help institutionalize a cropping systems research program. Also, equipment and commodities will be provided to support research efforts.

2. Agricultural Information. Before research recommendations reach the farmer, they must be written and presented in an understandable manner. Extension staff must be able to grasp the new cropping concepts and apply them to the various conditions faced by the farmers with whom they work. Also, extension staff must have adequate backup support in the form of extension aids if they are to effectively deliver the message to the farmer. This project will assist the MOAC to substantially expand and improve the capacity of the Agricultural Information Section to accomplish these critically important tasks. Training will be provided to bring the staff to the desired level of competence. Also, equipment and facilities will be provided to produce the quality and quantity of materials needed to support the research and extension programs. This project will provide technical assistance to assist in establishing an effective agricultural information program by designing and instituting a process for the flow

of information from research to the extension service. Short-term and academic training will be provided in such areas as agricultural information systems development, equipment maintenance, and audio-visual techniques. A U.S. advisor will work with the staff of the Section to test the acceptability of various methods of communicating research recommendations to farmers and develop an extension support program and extension aids which are based on this assessment. An important function of this component will be an active collaboration with both the cropping systems research team and the extension service.

3. Extension Training. Under the project, a technical advisor will assist the GOS to design and implement a comprehensive in-service training program that will include formal courses at the University's agricultural facilities during term breaks as well as informal sessions at Farmers' Training Centers and the central research station and substations. A substantial training component is provided to upgrade the staff of an In-Service Training Section to be created under the project. Training for Swazis to staff the Crop Production Section, which provides the technical support needed by extension workers, is also provided. A limited amount of commodities will be provided to the Faculty of Agriculture for the training of future extension staff. An important element of this component of the project will be the introduction of new extension methodologies and teaching aids to students in the Certificate Training Course by the In-Service Training Section.

## Article II. Contribution of the Parties

In order to achieve the purpose and objectives of the project, the Parties will make inputs to the project as described below.

### A. A.I.D.

#### 1. Technical Assistance (\$8,140,000)

Approximately 40.75 person years of long-term technical assistance and approximately 90 person months of consultancies will be provided in research, extension in-service training, and agricultural information.

#### 2. Training (\$1,781,000)

Approximately 705 study months of formal academic and short-term training in the U.S. will be provided to fill such positions as Research Officers, Crop Production Specialists, Extension In-service Training Coordinator, and Agricultural Information Specialist.

3. Commodities (\$1,030,000)

Vehicles, equipment, and production materials will be procured for the Research Division (MOAC), Extension In-Service Training Section (MOAC), Agricultural Information Section (MOAC), and Faculty of Agriculture (UCS).

4. Construction (\$640,000)

Facilities to be constructed under the project include a building to house the Agricultural Information Section, a library/conference room for the Research Division, an extension to the Research Division's soils laboratory, housing and storage sheds for the field research teams, and housing, if required, for a U.S. technician.

5. Evaluations (\$48,000)

An external, mid-term evaluation is scheduled for July, 1985.

6. Other (\$1,261,000)

Local costs for the base-line survey (\$17,000); the salary for an administrative assistant for the U.S. technical assistance team over five years (\$58,000); and a contingency fund (\$1,186,000) are also included in the project.

B. GRANTEE

In addition to its general obligation under Section 3.2 of this Agreement to provide funds and resources needed for the project, the Grantee will make the following inputs to the project:

1. Vehicle Maintenance and Operation (\$437,000)

The GOS will provide for all fuel and maintenance of project vehicles and will replace vehicles, as required.

2. Salaries (\$1,758,000)

Salaries for counterparts to U.S. advisors plus other professional and support staff will be financed by the GOS.

3. Research Facilities and Office Space (\$1,223,000)

Except for the construction of facilities to be funded by A.I.D., the GOS will provide the necessary research facilities and office space required to implement the project.

4. Housing and Furnishings (\$369,000)

The GOS will provide housing for the U.S. research advisors and furnishings for all houses to be used by project personnel, including field research teams.

5. Travel costs for Participants (\$122,000)

The GOS will fund round trip air transportation for all participants trained under the project.

6. Commodities and Supplies (\$336,000)

Research commodities, training supplies, teaching aids, and production materials will be provided by the GOS to implement the project.

7. Contingency (\$109,000)

Note: Of the above, approximately \$1,213,000 (Emalangi 933,000) are incremental costs to the GOS.

C. OTHER: PEACE CORPS (\$55,000)

The U.S. Peace Corps will provide the services of volunteers to assist with the on-farm research program.

Article III. Implementation

A. Implementation Responsibilities

1. GOS

a. Agricultural Research Division. The GOS will transfer five Crop Production Specialists from the Crop Production Section of the MOAC to the Research Division to serve as counterparts to AID-funded technical assistance team. In addition, the GOS will establish five positions in 1982 and five in 1983 for Research Assistants. The first five positions will be filled by April 1982 either by recruiting new diploma graduates or transferring experienced Research Recorders who are diploma holders into those positions. The remaining five Research Assistant positions will be filled by April 1983.

b. Extension In-Service Training Section. The GOS will formally establish an Extension In-Service Training Section in the Agriculture Division of the Ministry of Agriculture and Cooperatives. The existing post for the Extension In-Service Training Coordinator will be transferred from the Agricultural Information Section to the new section and an additional position will be created for an Assistant Coordinator. A position will also be established for one secretary/typist

17

and all three positions will be filled in FY 82/83.

c. Agricultural Information Section. The GOS will fill one existing Farm Radio Broadcaster position, and two of the existing three projectionist positions (one is already filled). A fourth projectionist position will be established and filled in 1983.

d. Other. The GOS will be responsible for the timely selection of participants with adequate academic qualifications for training.

In conjunction with commodity support from AID, the GOS will be responsible for providing adequate recurrent budget support to implement and carry out the programs in agricultural research, agricultural information, and extension in-service training. The GOS will also be responsible for providing facilities for research and extension in-service training.

The Public Works Department of the Ministry of Works, Power and Communications will be responsible for coordinating all project construction activities. The Public Works Department will prepare final plans and specifications, tender documents, and will select and supervise contractors. Plans, contracts and construction will be inspected and approved by AID engineers; these approvals will be formalized in Project Implementation Letters submitted to the GOS.

## 2. AID

USAID/Swaziland will be responsible for project monitoring, and the USAID/S project manager will serve as the primary contact point for the contract team's Chief of Party and will be responsible for obtaining decisions on contract and project matters. USAID/S will prepare necessary PIO/Ts and Project Implementation Letters and will be responsible for the preparation of one Project Evaluation Summary in addition to the supervision of the one external evaluation. USAID/S will issue Source and Origin Waivers to permit Code 935 procurement under Mission Director Authority, or request such waivers from AID/W if required.

USAID/S will disburse funds for local costs on a reimbursable basis following procedures to be defined in the Grant Agreement and Project Implementation Letters. Funds for construction will be disbursed on a Fixed Amount Reimbursement (FAR) basis with disbursement levels and procedures for advances to be established with assistance from USAID engineers and set forth in Project Implementation Letters.

### 3. Contractor

The design of this project was carried out through the collaborative mode with assistance provided by a Title XII Institution; it is planned that the project will be implemented by the same institution, Pennsylvania State University (Penn State). AID/W, in coordination with USAID/S, will contract with Penn State to provide the technical assistance proposed for the project. Penn State will be responsible for the timely provision of the required technical assistance personnel as well as all administrative arrangements related to recruitment, transportation, shipment of household effects, etc.

The technical assistance team, under the leadership of the Chief of Party, will be responsible for implementing project activities. In addition to in-country and on-the-job training responsibilities, the technical assistance team will also assist the GOS in the selection and evaluation of participant trainees, and will be primarily responsible for securing placement of participants sent for U.S. and third country training. Since participant training is grant funded under the contract, the technical assistance team will prepare all PIO/Ps, with USAID/S guidance and assistance as needed, and will furnish copies of PIO/Ps to USAID/S.

Project commodities will be procured under the contract; therefore, Penn State's procurement office, and the technical assistance team will be responsible for all commodity procurement, following AID procurement regulations. However, before equipment and/or commodities are procured, the technical assistance team must obtain USAID/S approval of types and prices of non-expendable items.

The technical assistance team will be required to submit annual work plans to be approved by MOAC and USAID. Requisite reports consist of quarterly progress/status reports and a final, end of project report.

#### B. Procurement Plan

##### 1. Authorized Source of Procurement

The authorized source of procurement under the project will be the Geographic Code 000 (U.S. only) and Swaziland, except for those items covered by the source waivers, included as Annex M, and the light duty vehicles, which will be procured from Code 935 sources under the existing blanket vehicle waiver for southern Africa.

##### 2. Responsibility

It is planned that all procurement under the project will be carried out by Penn State, with all A.I.D. rules

and regulations concerning procurement being applicable. Exceptions to the foregoing are: (1) the light duty vehicles will be purchased by the GOS Central Transport Authority, in order for transportation to be available to the implementation team upon its arrival in Swaziland and (2) since all construction will be under the FAR method of financing, the contractor hired by the GOS will procure all construction materials. The contract with Penn State will clearly specify its procurement responsibilities, including a requirement that all transactions must be reviewed and approved by USAID/S prior to placement of orders.

### 3. Imported Shelf Items

Within the limits authorized, some items of other than Geographic Code 941 origin will be purchased off-shelf in Swaziland. Included among these items will be relatively small quantities of fertilizers and pesticides required at intermittent periods during the life of the project; equipment, such as photocopiers, for which local service is essential; and production materials and supplies, including flip charts, film and printing materials. Penn State will also be responsible for the procurement of these items, taking into consideration all AID rules and regulations concerning commodity eligibility.

C. Implementation Schedule

The following schedule presents the major implementation actions to take place during the project along with the responsible agent.

<u>Date</u>	<u>Action</u>	<u>Responsibility</u>
Aug 81	Grant Agreement signed	USAID/GOS
Sept 81	Preliminary planning for all facilities to be constructed, including designs for Ag. Info. Bldg. and Malkerns facilities	GOS
Sept 81	Tender document issued for construction of TA House	GOS/USAID
Oct 81	Contract negotiated with contracting university	AID/W/Contractor
Oct 81	Two station wagons and two pickup trucks ordered for technical assistance team	GOS/USAID
Oct 81	Tenders for Ag. Info. Bldg. and Malkerns facilities	GOS/USAID
Dec 81	Ag. Info. Bldg., Malkerns Soils Lab, Library, and TA House contracts awards	GOS/USAID
Dec 81	Three pickup trucks ordered for technical assistance team	GOS/USAID
Jan 82	Chief of Party, Rural Sociologist, Extension Training Specialist and Economist arrive in Swaziland	Contractor
Feb 82	3 candidates selected for US training; applications submitted to universities	GOS/USAID/ Contractor
Feb 82	One pickup truck ordered for technical assistance team	GOS/USAID
Mar 82	First contingent of equipment and supplies ordered	Contractor
Mar/Apr 82	Swazi counterparts identified (and posts established, if necessary) for each U.S. technician on project and transferred to specific positions	GOS

Date	Action	Responsibility
Mar 82	3 candidates selected to enroll in refresher course in University College of Swaziland (UCS)	GOS/USAID/ Contractor
Apr 82	All remaining members of technical assistance team arrive Swaziland (except Agricultural Information Specialist)	Contractor
Apr 82	Rural Sociologist and Agricultural Economist provide leadership in designing and conducting base-line survey	Contractor/ GOS
Apr/Jun 82	Research staff observe harvest and begin detailed planning for 1982/83 cropping season	Contractor/GOS
May 82	3 Swazis leave for M.Sc. program in US.	GOS/Contractor
May 82	4 Swazis leave for B.Sc. program	GOS/Contractor
Jun 82	TA house and Malkerns facilities completed	GOS/USAID
Jun 82	Agricultural Information Specialist arrives in Swaziland	Contractor
Jun 82	Tender for first seven field research houses and five storage sheds	GOS/USAID
Jun 82	Ag Information technician selected; departs for 6 months training	GOS/Contractor
Aug 82	Contracts awarded for seven field houses and five storage sheds	GOS/USAID
Aug 82	Second contingent of equipment ordered	Contractor
Aug 82	Four vans for AIS ordered	GOS/USAID
Sept 82	Start of program for first crop season under project	Contractor
Aug 82	First group of five Research Assistants begin training at research station	GOS/Contractor
Nov 82	Ag. Info. Bldg. completed	GOS/USAID
Dec 82	Ag. Information technician returns from training	Contractor
Feb 83	4 candidates selected for training in US; applications submitted to universities	GOS/Contractor

<u>Date</u>	<u>Action</u>	<u>Responsibility</u>
Mar 83	4 candidates for training enrolled in UCS for refresher courses	GOS/Contractor
May/Jun 83	Data from base-line survey collected and preliminary analysis completed	Contractor
Apr 83	Equipment and motorcycles for first field team ordered	Contractor
Apr/Jul 83	Research team analyzes results from first crop season	Contractor
May 83	4 Swazis leave for training in U.S. (2 M.Sc., 2 M.Ed.)	GOS/Contractor
May 83	Start of program for first irrigated crop season	Contractor
May 83	4 Swazis leave for B.Sc. training	GOS/Contractor
Jun 83	Completion of first seven field houses and five storage sheds	GOS/USAID
Jun 83	Tender for remaining seven field houses and five storage sheds	GOS/USAID
Jun 83	First five field research teams transferred to field sites	GOS/Contractor
Jul 83	Internal Evaluation (PES)	USAID
Aug 83	Second group of five Research Assistants begin training at research station	GOS/Contractor
Aug 83	Contract awards for remaining seven field houses and five storage sheds	GOS/USAID
Aug/Sept 83	Analysis of irrigated crop season results	Contractor
Sept 83	Results of research findings published in annual report	Contractor/GOS
Sept 83	Start of new crop season program	Contractor
Feb 84	4 candidates selected for training in US; applications sent to universities	GOS/Contractor
Mar 84	4 candidates for advanced training enroll in refresher courses at UCS	GOS/USAID
Apr 84	Equipment and motorcycles for second field team ordered	Contractor
May 84	3 students complete M.Sc. training, return to Swaziland and start work with TA counterparts	GOS/Contractor

23

<u>Date</u>	<u>Action</u>	<u>Responsibility</u>
May 84	4 M.Sc. trainees depart for US	GOS/Contractor
Apr/Jul 84	Data and preliminary analysis of first annual update of socio-economic information completed	Contractor/GOS
Apr/Jul 84	Team analyzes results of previous crop season	Contractor/GOS
May 84	Start of irrigated crop season program	Contractor
Jun 84	Remaining seven field houses and five storage sheds completed	GOS/USAID
Jun 84	Second five field research teams transferred to field sites	GOS/Contractor
Aug/Sept 84	Analysis of irrigated crop season results	Contractor
Sept 84	3 Swazis assume responsibility of position with TA as advisors	GOS/Contractor
Sept 84	Research findings published in annual report	GOS/Contractor
Sept 84	Start of new crop season program	Contractor
May 85	4 students complete M.Sc. training; return to Swaziland and start work with TA counterparts	GOS/Contractor
Apr/Jul 85	Team analyzes results of previous crop season	Contractor
Apr/Jul 85	Data for 2nd annual update of socio-economic information; in conjunction with previous information the research program's overall direction is re-examined	Contractor/GOS
May 85	Start of irrigated crop season program	Contractor
May/Aug 85	On-farm demonstration program of research findings under irrigated conditions	GOS/Contractor
Jul 85	External Evaluation	REDSO/EA/Consultants
Aug/Sept 85	Analysis of irrigated crop season results	Contractor
Sept 85	4 Swazis assume responsibility of positions with TA as advisors	Contractor
Sept 85	Research findings published in annual report	GOS/Contractor

<u>Date</u>	<u>Action</u>	<u>Responsibility</u>
Sept 85	Start of new crop season program	Contractor
Sept 85 - Apr 86	On-farm demonstrations of research findings	GOS/Contractor
Jan 86	Start decision process for determining whether a phase II will be implemented	USAID/GOS/ Contractor
May 86	4 students complete M.Sc. training in US and return to start work with counterparts	GOS/Contractor
May 86	4 B.Sc. graduates return to work in Crop Production Section	GOS/Contractor
Apr/Jul 86	Team analyzes results of previous crop season	Contractor/GOS
Apr/Jul 86	Socio-economic team gathers new data, analyzes 4 years of data, and makes comparisons	Contractor/GOS
May 86	Start of final irrigated crop season program	Contractor/GOS
May/Aug 86	On-farm demonstrations of irrigated research findings	GOS/Contractor
Jul/Aug 86	Follow-on PP Design, if required	USAID/Contractor GOS
Aug/Sept 86	Analyses of final irrigation crop season results	Contractor/GOS
Sept 86	4 Swazis assume responsibility of position with TA as advisors	GOS/Contractor
Sept 86	Research findings published in annual report	GOS/Contractor
Sept 86	Start of final crop season program	Contractor/GOS
Sept 86 - Apr 87	On-farm demonstrations of research findings	GOS/Contractor
Oct 86	Phase II PP Approval	AID/W
Jan 87	Contract signed for implementation of Phase II	AID/W/Contractor
Apr 87	Summary report of research findings during first five years	Contractor/GOS
Apr/Jul 87	Research staff analyze results of previous crop season	GOS/Contractor

25

<u>Date</u>	<u>Action</u>	<u>Responsibility</u>
Apr 87	Phase II implementation begins.	USAID/ GOS/ Contractor
May 87	4 B.Sc. graduates return to work in Crop Production Section	GOS/Contractor

26

## Article IV. Evaluation

### A. Internal Evaluations

An AID Project Evaluation Summary (PES) will be prepared to examine progress toward achieving project objectives and the performance of the contractor, USAID, and the GOS in meeting project commitments. The PES is scheduled for 1983 in July (to allow for the completion of the preceding crop season and the subsequent data gathering and analysis). This evaluation will be conducted jointly by the GOS and USAID in accordance with standard AID procedures.

### B. External Evaluation

A major, external evaluation is scheduled for July 1985. The evaluation will be conducted by a REDSO/EA evaluation officer and three outside consultants over a four week period. The appropriateness and timeliness of the provision of project inputs will be evaluated at this stage along with an assessment of output achievement. The evaluation team will compare actual achievements to the targets projected in the Project Paper and evaluate progress toward reaching the end of project status. If necessary, the evaluation team will recommend modifications regarding project inputs that may be required to accomplish the project purpose. Additionally, using the project base-line survey and subsequently gathered data, the evaluation team will assess any progress toward achieving the 1992 goal level indicators, if possible.

The external evaluation will also serve as the basis for deciding the need for a follow-on effort. An explicit recommendation on this question will be required of the evaluation team as well as preliminary recommendations on the direction that a second phase project should take.

Article V. Illustrative Financial Plan

A. Project Funding Summary

As currently designed, the total cost of this project is estimated at \$17,309,000. Of this total, AID will finance \$12,900,000; the GOS will provide \$4,354,000; and the US Peace Corps will contribute \$55,000 in volunteer support. A summary of these contributions, identified by major project component, is provided in the following tables:

Table 1

Source and Use of Funds  
(\$000)

<u>Sources</u>	<u>A.I.D.</u>		<u>GOS</u>		<u>U.S. Peace Corps</u>		<u>Total</u>
	<u>FX</u>	<u>LC</u>	<u>FX</u>	<u>LC</u>	<u>FX</u>	<u>LC</u>	
<u>Use</u>							
Cropping Systems Research	7387	340	-	3440	26	24	11,217
Agricultural Information	1681	126	-	585	-	-	2,392
Extension Training	2132	-	-	220	-	-	2,352
Evaluation	48	-	-	-	-	-	48
Subtotal FX & LC	11,248	466	-	4245	26	24	16,009
Subtotal FX + LC	11,714			4245	50		16,009
Contingency	1,186			109	5		1,300
<b>TOTAL PROJECT</b>	<b>12,900</b>			<b>4354</b>	<b>55</b>		<b><u>17,309</u></b>
(% of Total)	(74.5%)			(25.2%)	(.3%)		

28

Table 2

A.I.D. Funding by Input and Project Component (\$ 000)

Input	Research	Extension Training	Agricultural Information	TOTAL
Technical Assistance	6138	1001	1001	8,140
Training	613	1057	111	1,781
Construction	388	-	252	640
Equipment/Commodities	437	65	390	892
Vehicles	76	9	53	138
Other (Local)	75	-	-	75
Subtotal (%)	7727 (66)	2132 (18)	1807 (16)	11,666 (100)
Contingency (15% on equipment, 10% on all other items)				1,181
Add: External Evaluation (Includes 10% contingency)				53
TOTAL				<u>12,900</u>

-Inflation factors for both tables are included in line items.

62-