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AGENCY FOR INTERNATIONAL DEVELOPMENT

WASHINGTON, D.C. 20523

PROJECT PAPER

Amendment #1

JORDAN VALLEY AGRICULTURAL SERVICES
(278-0241)

March 31, 1987

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AGENCY FOR INTERNATIONAL DEVELOPMENT

WASHINGTON D.C. 20523

JORDAN VALLEY AGRICULTURAL SERVICE PROJECT

NO: 278-0241

PROJECT PAPER AMENDMENT

FIRST AMENDMENT TO PROJECT AUTHORIZATION

UNCLASSIFIED

AGENCY FOR INTERNATIONAL DEVELOPMENT PROJECT DATA SHEET	1. TRANSACTION CODE <input type="checkbox"/> A = Add <input type="checkbox"/> C = Change <input type="checkbox"/> D = Delete	Amendment Number _____	DOCUMENT CODE 3
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2. COUNTRY/ENTITY JORDAN	3. PROJECT NUMBER 278-0241
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4. BUREAU/OFFICE ASIA NEAR EAST (ANE)	5. PROJECT TITLE (maximum 40 characters) JORDAN VALLEY AGRICULTURAL SERVICES
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6. PROJECT ASSISTANCE COMPLETION DATE (PACD) MM DD YY 08 31 88	7. ESTIMATED DATE OF OBLIGATION (Under 'B' below, enter 1, 2, 3, or 4) A. Initial FY <input type="checkbox"/> 8 <input type="checkbox"/> 1 B. Quarter <input checked="" type="checkbox"/> 2 C. Final FY <input type="checkbox"/> 8 <input type="checkbox"/> 7
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8. COSTS (\$000 OR EQUIVALENT \$1 =)						
A. FUNDING SOURCE	FIRST FY			LIFE OF PROJECT		
	B. FX	C. L/C	D. Total	E. FX	F. L/C	G. Total
AID Appropriated Total	6,420		6,420	6,420		6,420
(Grant)	(6,420)	()	(6,420)	(6,420)	()	(6,420)
(Loan)	()	()	()	()	()	()
Other U.S.						
1.						
2.						
Host Country					5,543	5,543
Other Donor(s)						
TOTALS	6,420		6,420	6,420	5,543	11,963

9. SCHEDULE OF AID FUNDING (\$000)									
A. APPROPRIATION	B. PRIMARY PURPOSE CODE	C. PRIMARY TECH. CODE		D. OBLIGATIONS TO DATE		E. AMOUNT APPROVED THIS ACTION		F. LIFE OF PROJECT	
		1. Grant	2. Loan	1. Grant	2. Loan	1. Grant	2. Loan	1. Grant	2. Loan
(1) ESF	120	070				800		6,420	
(2)									
(3)									
(4)									
TOTALS						800		6,420	

10. SECONDARY TECHNICAL CODES (maximum 6 codes of 3 positions each) 075	11. SECONDARY PURPOSE CODE 183
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12. SPECIAL CONCERNS CODES (maximum 7 codes of 4 positions each)						
A. Code	021	021	123	075	080	
B. Amount	25%	16%	17%	17%	25%	

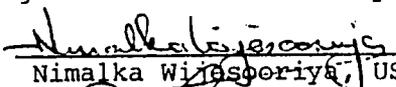
13. PROJECT PURPOSE (maximum 480 characters).

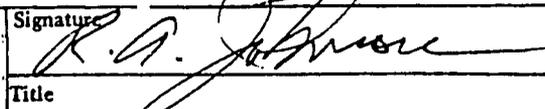
Establish and institutionalize a viable mechanism capable of developing and disseminating appropriate agriculture technology for increasing vegetable and fruit production in the Jordan Valley.

14. SCHEDULED EVALUATIONS Interim MM YY MM YY Final MM YY 05 84 06 86	15. SOURCE/ORIGIN OF GOODS AND SERVICES <input type="checkbox"/> 000 <input checked="" type="checkbox"/> 941 <input checked="" type="checkbox"/> Local <input type="checkbox"/> Other (Specify) _____
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16. AMENDMENTS/NATURE OF CHANGE PROPOSED (This is page 1 of a _____ page PP Amendment.)

The methods of financing to be used in this project are in conformity with AID's policy statements on financial and administrative management and USAID's comprehensive general assessment.


 Nimalka Wijesuriya, USAID/Controller

17. APPROVED BY	Signature  Title Richard Johnson	Date Signed MM DD YY 03 31 87	18. DATE DOCUMENT RECEIVED IN AID/W, OR FOR AID/W DOCUMENTS, DATE OF DISTRIBUTION MM DD YY _____
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ACTION MEMORANDUM TO THE DIRECTOR:

TO: Richard Johnson, Acting Director

DATE: March 18, 1987

FROM: Fuad Qushair, ARDO *F. Qushair*

SUBJECT: Authorization to Amend the Jordan Valley Agricultural Services Project (JVASP)

Problem:

Your signature is required on the attached Project Authorization Amendment to provide an increase in funding of \$800,000 in the JVASP.

Discussion:

The JVASP was authorized on September 27, 1981 with the purpose of establishing and institutionalizing a viable mechanism capable of developing and disseminating appropriate agricultural technology for increasing vegetable and fruit production in the Jordan Valley. The Grant Project Agreement was signed September 28, 1981 and provided \$5,620,000 in AID funds.

A mid-term evaluation in July 1985 recommended that the project be extended for five years. The Ministry of Agriculture, through the Ministry of Planning, also requested a five year extension. USAID's Project Review Committee agreed that the project required additional time to achieve the project purpose and recommended a two year extension with a concentration on the agricultural extension aspects of the project. Project Implementation Letter No. 2, dated July 24, 1986, responded to the Ministry of Planning request and extended the Project Assistance Completion Date through August 31, 1988. In this Project Implementation Letter, USAID pledged additional funds from FY 1987 fund allocations to carry the project through the two year extension subject to availability of FY 1987 funds.

The additional funding of \$800,000 together with unexpended FY 1981 funds remaining in the project, estimated at \$820,000 as of December 31, 1986, are primarily to provide additional 42 P/M of long term and 16 P/M of short term technical assistance. This will bring the total AID technical assistance input from inception through the life of project to 278 P/M. The Project Paper Amendment also makes provision for commodities that are essential to successful completion of the project.

The additional in-kind contribution of \$1.3 million over the two year extension period was discussed with and agreed to by the Assistant Under-Secretary of the Ministry of Agriculture. This will bring the GOJ contribution for the LOP to \$5,543,000.

State 062970 dated March 4, 1987, indicated that a Congressional Notification for subject project was forwarded on February 25, 1987 for \$800,000 ESF Grant funds. State 073139 dated March 13, 1987 advised that Congressional Notification waiting period expired March 12, 1987 without objection.

Recommendation:

(1) That you sign the attached amendment of the Project Authorization, which will increase the approved level of project funding from \$5,620,000 to \$6,420,000; and (2) that you sign the face sheet of the Project Paper Amendment.

Approve RA Johnson

Disapprove _____

Date April 2, 1987

Clearances:

ARDO: RCummings (Draft)

RLA : DRobertson DR

PDO : TRishoi TR

PRG : WMcKinney WBMK

ENG : LWeis LW

CONT: NWijesooriya NW

AUTHORIZATION AMENDMENT NO. 1

Name of Country : Jordan Name of Project: Jordan Valley Agricultural Services

Number of Project: 278-0241

1. Pursuant to Section 531 of the Foreign Assistance Act of 1961, as amended, the Jordan Valley Agricultural Services Project for Jordan was authorized on September 27, 1981. That authorization is hereby amended as follows:

The authorize life of project funding is increased by Eight Hundred Thousand United States Dollars, \$800,000, making the total life of project funding \$6,420,000.

2. The authorization cited above remains in force except as hereby amended.



Lewis P. Reade, Director

4/2/82

Date

Draft: RLA:  Robertson

Clearance: PRM : Mckinney *w/hk*
ARD : Cummings *ecc*
nn : R. Johnson

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JORDAN VALLEY AGRICULTURAL SERVICES PROJECT -
PROJECT PAPER AMENDMENT

I. Summary and Recommendations

A. Background

On September 28, 1981, a Project Grant Agreement was signed with the GOJ to assist in increasing the Jordan Valley's agricultural productivity, primarily of vegetables and fruits, for local consumption and export, through increasing farmer's access to inputs and services. The Agreement provided \$5,620,000 in AID funding for activities through the PACD of 8/31/86.

The team that conducted the Mid-term evaluation in July, 1985, recommended that the project be extended for 5 years. The Ministry of Agriculture also requested a 5 year extension (see Annex I). USAID's Project Review Committee agreed that the project required additional time to achieve the project's purpose of "establishing and institutionalizing a viable mechanism capable of developing and disseminating appropriate agricultural technology for vegetable and fruit production in the Jordan Valley", and recommended a two year extension with a concentration on the extension aspects of the project. In retrospect - a hindsight - it is felt that significantly less emphasis was placed in the original Project Paper on extension. The imbalance between research and extension will be addressed and corrected during the two year extension. At its meeting held April, 28, 1986 the Senior Review Committee concurred in and approved the extension and the additional funding required.

B. Grantee: The Government of the Hashemite Kingdom of Jordan.

C. Implementing Agency: Ministry of Agriculture (MOA)

D. Total Project Cost: This amendment provides an additional \$800,000 in AID funding and an additional GOJ contribution of \$1,300,000. The total LOP project cost is therefore \$11,963,000, consisting of the AID contribution of \$6,420,000 and the GOJ contribution of \$5,543,000.

E. Project Description: The project basically involves institution development, research, and technology transfer. It has been necessary to put together a research team to start work on some of the immediate problems facing farmers in the Jordan Valley, as well as to test and introduce new crops. At the same time, an effort has been made to build an extension team capable of transferring information to farmers. The research phase has involved developing the facilities at the Deir Alla station, including Pest Management, and Soil, Water and Tissue Analysis laboratories. It has also involved establishing three research sub-stations - one in the southern part of the Valley (Karamah), one in the middle (Deir Alla) and one in the northern part (Wadi-Yabis/Abu Habil). Plastic greenhouses and other facilities were installed at these substations.

A part of the research (and extension) effort involved a program for the biological control of the spherical mealybug. Jordanian personnel were trained both in the U.S. and at the Deir Alla station in the techniques required and have successfully established parasites that control the pest. This phase of the project will continue during the two year extension in order to expand the area of control.

Although much of the institutionalization process has been accomplished some areas need additional assistance in order for the persons involved to become fully able to take over the required functions. This is especially true of the operation of the soil and water laboratories, and for the work in virology. In addition, the project extension will permit an emphasis on the extension function which was not fully completed in the original term of the Project. Several areas previously supported by long term technical assistance will be supported through short term assistance.

- F. Grantee contribution The GOJ contribution under this amendment will be \$1.3 million bringing the total GOJ contribution to the project to \$5,543,000 over the life of project, or 46% of total project costs.
- G. Statutory Checklist The original checklist has been reviewed and satisfies current requirements.
- H. Issues Project Implementation Letter No. 2 dated July 24, 1986 (Annex "A") contains several covenants which the MOA has agreed to. While some of these covenants have been met, others related to organizational and structural changes are still awaiting action. It is felt that the deadlines set for meeting certain covenants were not realistic. USAID is currently engaged in delicate discussion/negotiations with MOA concerning these organizational and structural changes and is confident that once the desired changes have been effected the pending issues will be automatically resolved.
- I. Source and Origin: Goods and services, except for ocean shipping, financed by AID under the Project shall have their source and origin in either the U.S. or Jordan. Ocean freight financed by AID shall be on U.S. flag vessels.
- J. Recommendation: It is recommended that: (1) the authorized level of the Jordan Valley Agricultural Service Project No. 278-0258 be increased to a new life of project total of \$6,420,000 and (2) funds be allocated for technical assistance, training and commodities for agricultural research, extension and outreach activities in the Jordan Valley as well as for studies, once such funds become available.
- K. Project Committee:

Fuad Qushair: ARDO, Chairman
Jeryes Fasho: CONT
George Ishaq: PRG

L. Senior Review Committee:

Lewis Reade: Director
Richard Johnson: Deputy Director
Douglas Robertson: Regional Legal Advisor
Mark Krackiewicz: Regional Economist
Nimalka Wijesooriya: Controller
Tom Rishoi: Project Development Officer
William McKinney: Program Officer
Lyle Weiss: Engineering Officer
Robert Haladay: Health, Population and Nutrition
Frank Donovan: Commodity Import Officer
Randall Cummings: Agriculture and Rural Development Officer

II. Project Description

A. Background and Current Status of the Project

The JVASP Project Grant Agreement, signed September 28, 1981, provided a grant of \$5,620,000 to the GOJ Ministry of Agriculture (MOA) to improve the agricultural output of the Jordan Valley. The specific objectives were:

1. Establish and institutionalize a center capable of developing and disseminating appropriate agricultural technologies for increasing vegetable and fruit production in the Jordan Valley.
2. Develop innovative systems for: (a) identifying both short term and long term agricultural production problems in the Jordan Valley, (b) assembling the resources needed to carry out adaptive research on these problems, (c) integrating research results with other relevant scientific information, and (d) presenting the results in a format which will be useful to Valley farmers.
3. Provide a functioning model of effective problem-solving research and extension which can (with minimum modification) be applied to all research and extension activities of Jordan's Ministry of Agriculture.

The project was scheduled to begin January 1, 1982. The team leader arrived in June, 1982. This meant that the planned program was reduced by almost 9 months since the original PACD is 8/31/86. At present (March 5, 1987), there are three WSU professionals in JVASP - Agricultural Extension Specialist (Chief of Party), Plant Virologist, and a Soil scientist.

During the past five years, long term personnel have been supplemented by a number of TDYs, including those brought in to establish and assist in the mealybug control program. The mid-term evaluation team which met in July, 1985 recommended that the project be continued for another five years. The Ministry of Agriculture through the Ministry of Planning has also requested that the project be extended for five years, with a heavy emphasis on training at the diploma and M.S. levels and concentration on extension and outreach activities.

The JVASP has gone a long way towards institutionalization. A Jordanian director is in charge and both the research and extension activities are functioning. The office and laboratory building has been doubled in size since the project began. The Pest Management and the Soils Laboratories, which were delayed due to late arrival of equipment and problems with an adequate supply of electricity, are established and are functioning. The project has successfully introduced several new crops, including broccoli, fennel and red cabbage. A tomato variety has been introduced which is tolerant to tomato yellow leaf curl virus (a major disease problem in the Jordan Valley). In addition, research is being conducted on crop sequencing, virus indexing for citrus, testing of low chill varieties of fruit, and new crops for possible introduction in the Valley. The US agricultural economist whose services were provided under the Project, has computerized the costs and returns for all major crops and has also computerized recommendations for fertilizer use, disease and pest control, and production practices for protected culture as well as open field culture.

There are 9 extension offices, 10 extension agents and an extension supervisor. These agents have been stable for about two years. In addition, the JVASP has been able to obtain the MOA's permission for extension agents to drive their own vehicles, thereby greatly increasing their mobility and ability to serve farmers. The JVASP Director has requested five additional extension agents including two females in order to strengthen the extension efforts.

The project has 8 persons who have completed or are currently enrolled for the MS degree and 5 are enrolled in diploma courses. A number have attended short courses both in the U.S. and the Netherlands. A weed management extension course held in January, 1986, was also attended by a number of private sector agents. This course was one of several held during the past two years including an extension course held in April/May 1986. The extension course not only involved all JVASP agents and supervisors (12) in total) but included two weeks of interaction of all (78) agricultural extension agents in Jordan. Probably the most significant training has taken place on one-to-one basis between the WSU personnel and their counterparts. A library has been established and a WSU librarian has helped train JVASP personnel in its operation.

JVASP is just now reaching an effective state in the institutionalization process. It is in a crucial point wherein a premature withdrawal of USAID support could be fatal to the project. The extension group is only now beginning to function and still needs more training and time to gain confidence in themselves and the confidence of the farmers they serve. The young researchers are slowly gaining experience in research methodology and analysis and need a period of time before they can work independently. It is planned that the JVASP will shortly be brought under the National Center for Agricultural Research and Technology Transfer (NCARTT) which should result in more effective operations.

A continuing thrust of the project extension will be to enable the staff of the soil chemistry-fertility laboratory, the plant physiology-tissue analysis laboratory, and the soil physics-irrigation laboratory to reach a stage where JVASP personnel can operate these facilities without full time assistance. The project extension will enable JVASP staff members working on virus problems to become fully competent in virus indexing of citrus, to expand the program for surveillance of viral infections, and continue the development of disease-free planting stock.

A major shift is the employment of a US extension specialist to provide what has proven to be the missing element in the project. In the original project design, it was thought that assistance to extension could be provided through short term assignments. This approach has not been successful and the project will shift modalities during the two year extension and enable the project to meet the objectives of institutionalizing the means of transferring technology. It is contemplated that a linkage be established between JVASP and the Bureau for Science and Technology Centrally-Funded Communication for Technology Transfer in Agriculture Project No. 936-5826. This linkage is intended to provide the means for applying mass communication methods to support the transfer of technology to, and promote the adoption of simple, effective agricultural technologies among, Jordan Valley farmers.

To accomplish the above, the PACD was extended until August 31, 1988 and an additional \$800,000 are required.

B. Project Purpose and Strategy

The project purpose remains as stated in the original Project Paper. However, there will be a shift to greater emphasis on the transfer of technology than was the case in the original implementation plan.

Also, there will be an emphasis on shifting the responsibility for the operation of the JVASP to the newly organized National Center for Agricultural Research and Technology Transfer (NCARTT) which will in time, assume responsibility for all agricultural research and extension in the Kingdom.

C. Beneficiaries

The project extension does not alter the project beneficiaries as indicated in the original Project Paper.

D. Sector Goal

The overall goal of the project remains the same as stated in the original Project Paper, i.e., to increase the Jordan Valley's productivity, primarily of vegetables and fruits for local consumption and export, through increasing farmers access to inputs and services.

E. Progress toward Achievement of Sector Goal

The 1984 production of fruit and vegetable in the Jordan Valley was 12 percent higher than in 1981. The project cannot claim to have played

a significant role in this increased production because the project was mainly in the process of institutionalization during this time. However, the project has been able to introduce several new crops as well as a tomato variety that is tolerant to the tomato yellow leaf curl virus which is a major problem in the Valley. It has also tested low chill varieties of fruit (including peaches and nectarine) for possible introduction in the Valley. The impact of the new varieties and disease resistant stock is now beginning to be felt.

Probably most significant is the degree of institutionalization that has been accomplished. It is now felt that, with the two year extension, the project can become a self-sustaining research and extension entity, providing strong support to the Valley's agriculture.

F. Summary

The full institutionalization of the JVASP will be reached as a result of the two year extension of the project. This institutionalization will further be strengthened by bringing project activities under NCARTT. The shift in emphasis from research to extension will provide the balance that was lacking during the first part of the project.

The extension of the project is consistent with USAID and GOJ policy in view of the success of the activity to date.

III. Project Inputs

The total project cost is approximately \$11,963,000. AID inputs consist of technical assistance, commodities, training and studies and total \$6,420,000 for the life of the project (83 months from the date the Project Grant Agreement was signed). GOJ contributions are estimated to be the JD equivalent of \$5,543,000, consisting of managerial/technical staff support, counterparts, facilities and equipment, operating costs and maintenance, and farm labor.

A. AID Inputs

1. Technical Assistance

The original project called for 190 person months of technical assistance. The actual amount through August 31, 1986, was 220 person months. This will be increased by 42 person months of long term and 16 person months of short term technical assistance (see Annex "B" to this PP amendment). Therefore, the total AID technical assistance input from inception through February 29, 1988 will be 278 person months.

a. Long-Term Advisors

The long term advisors under this PP amendment will consist of an Extension Specialist/Chief of Party, a Soil Scientist-Plant Nutritionist and a Plant Virologist all of whom are presently on board.

(i). Extension Advisor/Chief of Party (18 months)

The Extension Advisor will be employed beginning September 1, 1986 and will be responsible for developing an overall extension program, including training which will enable the extension personnel to become effective technology transfer agents. The objectives and expected accomplishments during the 18 months contract extension are shown in Annex "F".

(ii). Soils Scientist-Plant Nutritionist (12 months)

A Soil Scientist - Plant Nutritionist will be employed for 12 months beginning September 1, 1986. The objectives and expected accomplishments during this one year assignment are shown in Annex "D".

(iii) Plant Virologist (12 months)

A Plant Virologist will be employed for 12 months beginning September 1, 1986. His objectives are as shown in Annex E.

b. Short Term Advisors

Nine short term advisors whose scopes of work are outlined below are required during the project extension; these are listed in Annex "B" which shows dates for their respective TDYs.

(i) Agricultural Economics/Statistics (TDYs)

The need for short term technical support in agricultural economics is twofold. First, the current staff of the Economics and Statistics Section of JVASP is inexperienced and formally trained only to the BSc level. They will need continuing support until one or more of them have been trained at the MSc level (by 1988) in order for the current program to be sustained. Second, short term technical support will provide a means of continuing the training program in agricultural economics by setting up a work schedule (time-line) and periodically monitoring the progress of the staff.

The training to be provided by the short term Agricultural Economist will consist of the following:

- Collecting economic data on input prices from farmers, researchers, and the markets in the Jordan Valley.
- Editing and analyzing the data collected.
- Developing coefficients from data that can be used in cost and returns statements, crop budgets, price-quantity graphs, and the development of other programs (LP, crop rotations, etc.) from the data.

In July, 1986, a program was set up for the agricultural economics staff and a time-line developed for activities during the two year extension of the project. Two TDYs are needed. These are shown in Annex D.

By the end of the project extension, the Agricultural Economics and Statistics Section will be able to undertake the above functions with little or no outside help. It is contemplated that the staff will be resource persons for assisting research and extension personnel in the Highland Agricultural Development Project and the NCARTT.

(ii) Agricultural Extension Media Specialist (TDY)

An Agricultural Extension Media Specialist for two months will be required to provide technical assistance in video education and other audio-visual techniques and training materials.

He/she will instruct extension agents in the use of photographic equipment for the production of black and white, color print, and diapositive photography. Composition of photographs will be emphasized along with the effective utilization of photographs in extension education. Construction of slide sets for extension will focus on slide quality and sequencing along with synchronizing audiocassettes. Instruction in operation and maintenance of film, slide and overhead projectors will also include simple trouble-shooting and procurement of routine spare parts. Proper tape recording techniques will be taught. Proper operational care and maintenance of video equipment will be central to the hardware component of this scope of work.

The software component of this TDY will involve instruction in the kinds and suitability of film mounting of slides and photographs, selection of cassette tapes, audio recording and synchronization techniques, and development of supplemental lecturettes and discussion groups as part of video education. Maintenance of the audio-visual library will be an important part of this component as will the introduction of multi-media programming dynamics. Radio interviewing principles will also be stressed.

The Extension Media Specialist will conduct field demonstrations for extension agents to complement the instructional activities in media operation. Maximum hand-on experience is expected. It is also expected that the Extension Media Specialist will consult and confer with other media resources accessible to Jordan Valley extension agents such as Jordan TV. Agricultural Information Services, local radio stations and the private sector. His or her activities will also be coordinated with those of the Extension Community Resource Development (CRD) Specialist and the Extension Information Specialist.

The output should be the integration of AV media into the JVASP extension program.

(iii) Plant Pathology/Bacteriology/Specialist (TDY)

A plant pathologist/bacteriologist (generalist) will be

- a. train Jordanian staff(s) in routine works in plant pathology such as: isolation and identification of fungal and bacterial pathogens using different techniques.
- b. help to initiate a reference culture of fungal and bacterial plant pathogens and
- c. orient the staff to conceptualize plant pathology research.

Major crops of interest: different vegetables grown under plastic and in the open field, grapes, bananas, citrus and other fruit trees.

(iv) Weed Control Scientist (TDY)

A weed control scientist is required for one month in April/May 1987 to recommend weed control programs for citrus, bananas, grapes, vegetables and onions utilizing mechanical as well as chemical methods. This specialist will work with the extension agents and research staff on kinds and types of herbicides to use for various weeds, safe application of these chemicals, and proper handling of the material and equipment. He/she will work with a Jordanian weed control scientist at the University of Jordan in weed identification and control of these pests. The expected output will be a bilingual weed control field manual.

(v) Tree Crop Horticulturist (TDY)

A specialist in tree crop horticulture will be required to:

- Advise on tropical fruits.
- Assist in field cultural practices to include fertilization, training, pruning and grafting.
- Develop fertilization programs for the crops of Jordan Valley.
- Help in propagation of grapes.
- Advise on the establishment of an arboretum for Jordan Valley.
- Help in establishing laboratory procedures to determine fruit quality and fruit properties.
- Look into tree fruit nursery practices problems.

(vi) Vegetable Horticulture Specialist (TDY)

A vegetable horticulturist for one month in February/March 1987 will be required to:

- Assist in designing modest vegetable crops laboratory for general purposes.
- Assist in the design and implementation of field research and demonstrations.

(vii) Extension Information Specialist (TDY)

The Extension Information Specialist will review past and current research at JVASP with expatriate and local scientists in order to glean the essence of the results and recommendations of same. Using his science writing capacity, he/she will develop English drafts of these materials giving credits as appropriate. This specialist will work with the research staff to identify research results that can be used/condensed into extension publications or pamphlets. This specialist will then help them organize the material as it can be used for extension material.

The Extension Information Specialist will also collaborate with the Extension Media Specialist and the Extension CRD Specialist in recommending through the JVASP Chief of Party possibilities of cooperative work that can be undertaken by JVASP and other agencies working with farmers in the Jordan Valley.

The period required for this specialist in Jordan will be for 3 months during May - August 1987.

(viii) Extension Community Resource Development (CRD) Specialist (TDY)

This TDY is required by JVASP in order to bring agencies and organizations together to cooperate in getting technology transferred to farmers and to make these agencies and organizations more responsive to the needs of Jordan Valley farmers.

The extension agents in the Jordan Valley are currently ten. They operate out of nine extension offices from which they execute their programs throughout the districts and basins assigned to them. The clientele, though mainly farmers, is affected by the impact of various parastatal and private sector organizations such as Jordan Valley Farmers Association, Agricultural Credit Corporation, Jordan Valley Marketing Association, and others. An effective extension program therefore must interface with these several groups as well as directly with individual farmers, both large and small.

It is felt that an Extension Community Resource Development Specialist is called for to make this happen with the organization of an integrated extension advisory committee and a functional needs assessment technique as expected outcomes. The Extension CRD Specialist will collaborate with the Extension Media Specialist, the Extension Information Specialist, and local counterparts in this regard.

This specialist is needed for a 2-month period from mid July to mid September 1987/88.

(ix) Integrated Pest Management (IPM) Specialist (TDY)

The IPM Specialist will assist in a comprehensive pesticide education program, which will also be filmed on video, in order to teach proper use of fungicides, insecticides and herbicides. Use of protective clothing, proper use of spray machinery, disposal of containers and limits of pesticide residues on crops for market will be stressed.

(x) Biological Control of the Spherical Mealybug (TDY)

Work done earlier on the Control of the Spherical Mealybug under this Project will be continued under the existing PASA with USDA/OICD. Continuation will be financed outside this Project. For details, see Annex "F".

C. Commodities

An illustrative list of commodities to be procured with AID funds during the two year extension is found in Annex "G".

D. Training

(i) Academic

It is planned that during the Project extension five of JVASP staff will be trained at the M.Sc and diploma levels at the University of Jordan. One of the five will study for M.Sc in plant production and four will be trained in the areas of plant protection, vegetables economics and weed control. Also, the Head of Agricultural Extension of JVASP will undergo training for M.S. in agricultural extension at the University of Alexandria, Egypt. Further, a soils scientist is now undergoing a four month post-doctoral program in soils science at WSU. An MSc study program in soils science has been provided to one JVASP staff who will return to Jordan in the spring of 1987 to take charge of the Soils Section of JVASP.

(ii) In-Service

In-service training will be conducted in Jordan. These programs will cover research methodology, computer use, extension communication and fertilizer use.

(iii) USDA Short Courses

Four of JVASP staff have been identified to undergo USDA administered short courses; two in horticulture and one each in irrigation and soils.

B. GOJ Inputs

GOJ/MOA will fund; (1) all salaries and allowances for Jordanian nationals assigned to the project, (2) vehicle and farm equipment operation and maintenance and (3) some local procurement and international travel for training of Jordanian nationals.

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A total staff of about 70 Jordanians will be assigned to the project, and their salaries and allowances are included in the GOJ contribution of \$1.3 million for the 24 month extension.

As indicated in the original Project Paper, vehicles and most farm machinery required for the project are budgeted as USAID input. The operation and maintenance of vehicles, as well as mileage allowances for project staff using their own vehicles is budgeted as a GOJ/MOA input.

Other GOJ/MOA inputs include local procurement of items of equipment and supplies, provision of space in existing buildings for offices, research laboratories and training programs at Deir Alla, office space at the Ministry Head Office in Amman, approximately 170 dunums of irrigated land at 3 sites in the Jordan Valley and movable storage facilities at these sites plus 10 dunums of irrigated land at Deir Alla Station and plastic houses.

IV Analysis

A. Economic Feasibility

The economic feasibility analysis remains as presented in the original Project Paper.

B. Social Soundness

The social soundness analysis remains as presented in the original Project Paper.

C. Technical Feasibility

The technical feasibility remains as presented in the original Project Paper.

D. Administrative Feasibility

The administrative feasibility analysis remains as in the original Project Paper. It might be added, that the administrative capability of the MOA to manage the project has improved since the project's inception. Also, once incorporated under the NCARTT, as planned, the Project will be managed under a significantly more effective organization.

E. Environmental Concerns

The environmental analysis and determination remains as presented in the original Project Paper.

V. Financial Plan and Analysis

The Jordan Valley Agricultural Services Project is an institution building activity. Project resources will be used in developing the research and extension center for the Jordan Valley. The project does not involve revenue generation to the affected entity, the Ministry of

Agriculture. The scope of the financial analysis of the budget is therefore limited to: (a) budgetary analysis, (b) a review of the contingencies and inflation and (c) a discussion of project financial implementation and recurrent cost implications.

A. Budgetary Analysis

The LOP budget for all project components is summarized in table 1 which is part of Annex "H" (Amendment No. 1 to Project Grant Agreement). The total cost from inception (September 28, 1981) through the 24 month extension (August 31, 1988) is estimated at \$6,420,000, or 56% of total project costs. GOJ inputs are \$5,543,000 or 46% of the total. Inflation during the 18 month contract extension and a provision for contingencies and studies has been added into the costing of inputs.

B. Project Financial Implementation

Financial implementation will continue to be almost entirely the responsibility of the contractor. All inputs during the 18 months contract extension consisting of long term and short term advisors (except the Biological Control Specialist), most of the training and all commodities will be covered under an institutional contract. A consumer study, budgeted outside the institutional contract, will be contracted and managed directly by USAID.

VI Project Implementation

A US Extension Advisor/Chief of Party who arrived in September 1, 1986, will serve for 18 months under the institutional contract. In addition, a Plant Virologist and a Soils Scientist-Plant Nutritionist have been on board since September 1, 1986. Other US personnel under the institutional contract will serve for different lengths of time over an 18 month period. These consist of an Agricultural Economist, Agriculture Communication and Media Specialist, Citrus and Potato Virology, Plant Pathology/Bacteriology, Weed Control Tree Crop Horticulture and Vegetable Production Specialists.

A Jordanian administrative assistant to attend to the Chief of Party and other contractor staff and an expeditor will continue to be hired to assist primarily in expediting and facilitating commodity procurement, clearance and handling.

The above US advisors will assist the Project Director and staff by providing technical assistance as reflected in their respective scopes of work given above.

VII Project Monitoring and Evaluation

As stated in the original Project Paper, USAID will be responsible for continuous project monitoring. Within the Mission, primary monitoring responsibility will rest with the Project Manager, USAID's Agriculture and Rural Development Office. He will be supported by a project committee which will include representatives from other USAID offices.

A final evaluation as envisioned in the original Project Paper has been dropped and will be substituted by an Impact Evaluation of all Jordan Valley which is planned to be conducted in the fall of 1987. The Impact Evaluation team will be required to focus on the JVASP and to assess the extent of the project's contribution to increasing Jordan Valley production of fruits and vegetables and how well the project's purpose has been achieved of institutionalizing a viable mechanism in the Valley to develop and disseminate appropriate agricultural technology.

VIII Conditions, Covenants, and Negotiating Status

C.Ps and covenants contained in the original Project Agreement were all met except the covenant relating to salary supplements which cannot be met under current Jordanian regulations. Other covenants contained in Project Implementation Letter No. 2 dated July 24, 1986 are still awaiting action. See section on Issues above.

UNITED STATES AGENCY FOR INTERNATIONAL DEVELOPMENT
AMERICAN EMBASSY
AMMAN - JORDAN

هذا المستند هو ملكية
الوكالة الأمريكية للتطوير
الدولي

وكالة الولايات المتحدة للامناء الدولي
السفارة الاميركية
عمان - الاردن

24 JUL. 1986

مكتب المدير

OFFICE OF THE DIRECTOR

Excellency:

Subject: AID Grant No. 278-0241
Jordan Valley Agricultural Services Project (JVASP)
Implementation Letter Number 2

This letter responds to your excellency's letter no. 58/1/2649, dated June 2, 1986, which requests five-year extension and financing of subject project.

Since the May 1985 mid-term evaluation of this project, USAID has had discussions with His Excellency Mr. Ahmad Dakhqan, Minister of Agriculture (to whom a copy of this letter is being sent) and other key members of the MOA staff. During those discussions, His Excellency indicated strong support for the project and expressed his readiness to deal with the shortcomings that had been surfaced by the mid-term evaluation.

USAID agrees that an extension of the project is essential to allow more time for the achievement of the project's purpose which is: to establish and institutionalize a viable center capable of developing and disseminating appropriate agriculture technology for vegetable and fruit production in the Jcrdan Valley. We have to contend with two principal considerations, however, which would limit extension of the project to a much shorter period than requested, i.e., to 24 months from August 31, 1986, which is the Project Assistance Completion Date (PACD). The first of these considerations is that there is a shortage of additional AID funds which may be made available to the Project; and the second deals with JVASP and its impending incorporation under the National Center for Agricultural Research and Technology Transfer (NCARTT) as had been agreed during the design stage of the Highland Agriculture Development Project.

USAID is willing to recommend provision of additional funds in Fiscal Year 1987 of up to \$850,000 which, together with those remaining in the project, should be sufficient to carry the project through a 24 month extension. USAID believes that during this extension period, the JVASP will have been fully established and institutionalized and brought under the NCARTT as originally envisioned. On July 15, 1986, I reviewed with His Excellency the Minister of Agriculture and staff several topics and issues related to USAID-assisted projects which are being implemented by the Ministry of Agriculture. During our discussions, the Minister of Agriculture:

- (1) confirmed an earlier agreement to place JVASP under the NCARTT; and
- (2) agreed to take actions to solve the problems that have inhibited or delayed progress in implementing this project. Such actions and/or measures pertain to the role of the extension agents, the recruitment of additional staff for JVASP once the hiring freeze is lifted and the Government of Jordan's funds become available and for supporting training programs.

In view of the above, (and the need to move ahead urgently with negotiating an amendment to the Washington State University Contract), USAID hereby extends the PACD in Section 3.3 (a) of the above mentioned Grant from August 31, 1986 to August 31, 1988. All Grant funded goods must be delivered and services performed before midnight of that date. USAID will not authorize disbursement of Grant funds for any goods or services after that date. Requests for disbursements for eligible goods or services received prior to August 31, 1988 must be received by USAID by midnight of May 31, 1989.

USAID's agreement to extend this project for two years and to provide additional financing for it is conditional on the Government of Jordan's agreement to the covenants listed in the attachment to this Implementation Letter.

If the GOJ can agree to these covenants, please indicate your agreement by co-signing in the space below and returning the signed copy to this office.

VB:

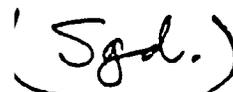
The USAID staff will be pleased to assist Ministry of Planning and Ministry of Agriculture staff should they need clarification on any point relative to this subject.

Sincerely,



D.P. Reade
Director

Co-Signed



Dr. Taher Hamdi Kana'an
Minister of Planning

His Excellency
Dr. Taher Hamdi Kana'an
Minister of Planning
Amman - Jordan

cc. His Excellency
Mr. Ahmad Dakhqan
Minister of Agriculture
Amman - Jordan

List of Covenants

1. That the Ministry of Agriculture (MOA) will bring the Jordan Valley Agricultural Services Project (JVASP) under the National Center for Agricultural Research and Technology Transfer (NCARTT) as early as possible but not later than October 31, 1986.
2. That MOA will, at the earliest possible date, issue instructions which will ensure that agricultural extension agents will be fully dedicated and exclusively assigned to the extension effort and will not be required to carry out regulatory, census, and other non-extension functions. They will be under the exclusive administrative and programmatic jurisdiction of the JVASP which will serve as a regional center for NCARTT. An organizational and position chart clearly indicating the responsibility of extension agents to JVASP/NCARTT, along with evidence that the change has been duly made in accordance with applicable Government of Jordan (GOJ) regulations, will be provided to USAID by the Ministry of Planning (MOP).
3. That the MOA will make staff appointments including two female extension agents, two extension media and publications specialists, one technician in soil field sampling, and one research entomologist once the Government of Jordan funds are available and the present hiring freeze is lifted.
4. That the MOA will support training programs in which selected, qualified new BSc graduates will be approved for entry into MSc programs without first serving two year assignments in the MOA.
5. That by August 31, 1986, the MOA will arrange for:
 - A. the completion of facilities at Deir Alla Station including:
 1. A plant tissue analysis laboratory
 2. An irrigation and soil physics laboratory
 3. A vegetable horticulture laboratory
 - B. the installation of two growth chambers and modification of other rooms as previously agreed to accommodate new equipment awaiting installation and for improved operational efficiency at Deir Alla
 - C. furnishing all extension agent offices with necessary office furniture and supplies

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6. That the MOA will assure that the Project Director has, and is instructed to exercise, full control over the JVASP budget and that he is fully empowered to incur expenditures up to a limit of JD 250 (per transaction) directly, without prior approval from central headquarters.
7. That the MOA, in consultation with the US advisors, will develop training programs/schedules for advanced degree and short-term training for project personnel.
8. That the MOA will authorize establishment of a pool of vehicles for duly licensed project personnel to schedule and self-drive, and ensure that all project-financed vehicles are used only for official project use.

LONG AND SHORT TERM ADVISORS UNDER
 JVASP for the period September 1, 1986 - February 29, 1988

ANNEX B

	1986				1987												1988		
	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	
<u>Long-Term Advisors:</u>																			
Extension Advisor/Chief of Party	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX							
Soil Scientist-Plant Nutritionist	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX							
Plant Virologist	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX							
<u>Short-Term Advisors:</u>																			
Economics/Statistics Specialist						XXXXX							XXXXXX						
Extension Media Specialist												XXXXXXXXXX							
Plant Pathology Specialist								XXXXXXXXXXXXXXXXXX											
Weed Control Scientist												XXXXXX							
Tree Fruit Specialist												XXXXXXXXXX							
Vegetable Horticulture Specialist								XXXXXX											
Extension Information Specialist												XXXXXXXXXXXXXXXXXX							
Extension Community Resource Development (CRD) Specialist													XXXXXXXXXX						
Integrated Pest Management (IPM) Specialist (Pesticide Handling Workshop/Film)																	XXXXXX		

Objectives and Expected Accomplishments
Agricultural Extension

A. Objectives for 1986/87

- * To implement farm demonstrations to the data generated at the research level. (Goal: one farm demonstration for each Extension Agent).
- * Utilize the training and farm visitation methodology for teaching agents new technical information, skills and recommendations to be transmitted to farmers: (Weekly meetings of Extension Agents).
- * Implement a Needs Assessment mode to document farmers needs which will be shared with researchers and decision makers.
- * Utilize video cassette programs as a means of in-service training and as a future method of reaching farmers.
- * Implement the concept of Female Extension Agents to assist in the enhancement and development of the role of women. To help producer families to better understand the possibilities of new crops in their own diet patterns. (Two female agents to be hired and trained).
- * Develop a system that would coordinate extended cooperation between the private and public sector.

B. Objectives For 1987/88

- * To integrate the Deir Alla Extension Program into the proposed National Center for Agricultural Research and Technical Transfer (NCARTT).
- * To increase the number of farm demonstrations through the utilization of contact farmers. (A goal of two farm demonstrations supervised by each Extension Agent).
- * To implement the use of video as a teaching tool in each extension office. (T.V. monitor and equipment for teaching recommended practices by video programs).
- * Implement training programs for the private sector in cooperation with the Extension programs in the Jordan Valley. (Programs to involve Research Scientists).

C. Expected Accomplishments for 1986/87

- * Assuming there is little turn-over of the present Extension agents, it is expected that twenty (20) percent more farmers will have been reached and each agent will have conducted at least two farm demonstrations with selected farmers.
- * Video education skills would be developed to allow the use of the programs to be used as in-service training materials.

- * Extension agents will utilize better adult learning methods, and group methods will be implemented.
- * The Extension agents will be capable of program planning for an entire growing season and will have the skills to implement the plan.

D. Expected Accomplishments for 1987/88

- * The Jordan Valley Extension Program will be incorporated into the National Center for Agricultural Research and Technical Transfer.
- * Agents from the Valley program will be utilized as trainers during in-service training programs.
- * A level of institutionalization will be reached where the National staff can carry on future planning and implementation of programs without extended technical assistance.
- * Extension offices in the Jordan Valley will be perceived by farmers as a location where they can receive technical knowledge and reliable assistance.

A

Objectives and Expected Accomplishments
Soils Science and Plant Nutrition

A. Objectives

- * Complete the establishment of three laboratories
 - Soil chemistry-fertility
 - Plant physiology-tissue analysis
 - Soil physics-irrigation
- * Continue to work with and to train the staff of these three laboratories on analytical procedures, functioning procedures and operational procedures, each as an entity as well as part of a complementary system.
- * Firmly establish recently implemented operational procedures for collecting proper soil and plant tissue samples for chemical analyses used in research and extending of fertilizer recommendations to farmers.
- * In cooperation with other scientists from the MOA and the University of Jordan, initiate new fertilizer experiments with long range implications on perennial crops such as citrus and bananas to determine optimal nutritional requirements.
- * Determine water needs of several crops in the Jordan Valley and start the process of establishing irrigation requirement forecasts.
- * Determine the effects of soil amendments on soil physical and chemical properties and resultant effects on plant growth.

B. Expected Accomplishments by End of 1987

- * Assuming that all laboratory furnishings are installed, and that remaining equipment and supplies enroute arrive on time, the three laboratories mentioned above will be fully operational. These laboratories will be able to serve research needs as well as the diagnostic needs of significant numbers of Jordan Valley farmers.
- * Analytical and operational procedures initiated this past season will have a better chance to become firmly established in the presence of the principal investigator.
- * The resident scientists will become more entrenched in the appropriate scientific procedures as well as in their ability and resolve to sustain the functioning of this agricultural research and technology transfer center for the Jordan Valley.
- * Because of the working relationships established with other MOA and U of J scientists, JVASP personnel will be able to expand the scope of their work, both in the field and in the laboratories.

Objectives of the Plant Virology ProgramA. General Objectives

- * Train three research assistants and one laboratory technician.
- * Develop pure spiroplasma citri cultures locally using specific culture media.
- * Develop antiserum against the local strain of spiroplasma citri.
- * Develop a system to obtain antisera to virus pathogens of local interest.
- * Collaborate with a US university faculty member to produce antisera of citrus tristeza strains. (There are no facilities to purify tristeza virus either at Deir Alla Station or at the University of Jordan).
- * Expand the direct enzyme linked immunosorbent assay (ELISA) for diseases other than citrus.
- * Continue the indirect ELISA testing at Prosser, WA for virus problems which cannot be handled at Deir Alla Station at present.
- * Provide specific training programs for the collaborators to identify hitherto unknown virus and virus-like disease problems in general.
- * Collaborate with Dr. Abdalla Al Musa of the University of Jordan in identifying and solving vegetable diseases problems.

B. Objectives Related to Citrus Certification Program (With JVASP counterparts)

- * Test more than 400 selected trees to identify some which are free from any pathogens.
- * A Study epidemiology of the Stubborn Disease caused by Spiroplasma citri.
- * Develop possible control measures for Stubborn Disease based on the epidemiology data.
- * Identify diseased citrus trees in private orchards in the Jordan Valley, and develop programs with the Ministry of Agriculture to eliminate diseased trees.
- * Train extension agents in the initial problem identification of citrus diseases.
- * Develop strategies with the extension agents to educate the farmers regarding the maintenance of healthy citrus trees.
- * Develop procedures for obtaining pathogen free citrus seeds to raise root-stocks for Jordan Valley conditions and train people in this field.

BIOLOGICAL CONTROL OF THE SPHERICAL MEALYBUG PROGRAM1986 - 1987

The parasitoids introduced have not yet reached a stable equilibrium position and it is still uncertain whether all the parasitoids needed have been introduced to effectively regulate this mealybug in Jordan. Additional parasitoid species and biotypes of these species could still be introduced if the existing parasitoid complex proves not to be totally adequate to keep the mealybug's population density below an economic injury level. Intensive mealybug samples must and will be collected to determine infestation levels and the impact of parasitoid introduction on these mealybug populations.

Monitoring of the mealybug populations has recently begun using sex-pheromone traps. This aspect needs to be enhanced and continued to monitor population trends of the mealybug and evaluate the effectiveness of the parasitoids in regulation of the mealybugs population density.

Laboratory culturing of all the introduced exotic parasitoids needs to be continued and enhanced for production of increased numbers of various species for continued inundative releases. The area of operation needs to be increased with the recent finding of Jerash and Amman infestations.

The most important aspect of this program, as any other biological control attempt, is the foreign exploration for and introduction of a variety of biological control agents from diverse ecological zones. Part of this has already been achieved but much more could be done to attain the ideal species diversity needed in the citrus ecosystems in Jordan. One area not explored to date is Australia and it is planned to explore this area and bring back biological control agents into Jordan during 1986-87.

1987 - 1988

Efforts to evaluate the effectiveness of previously introduced parasitoids and new introduction in 1986-7 will need to be carried over into 1987-88. Citrus test plots will need to be established to demonstrate the effectiveness of these parasitoids in an integrated pest management program using selective pesticides such as oils and acaricides with proper timing of applications. Complete biological control can develop and exists in the wild host plants in the absence of pesticides usage, but will be ineffective in citrus if broad spectrum organophosphate pesticides continue to be used.

These pesticides will not only disrupt the parasitoids regulatory capability of this mealybug, but other insects as well, causing secondary pest outbreaks. Extension specialists would be trained to teach the grower the best citrus pest management practices in keeping this mealybug below any economic injury level.

ILLUSTRATIVE LIST
 JORDAN VALLEY AGRICULTURAL SERVICES PROJECT
 TWO YEAR EXTENSION, EQUIPMENT & SUPPLIES

EXTENSION PROGRAM

1 station wagon	\$ 14,500
1 video edit/recorder	5,685
9 videotape players 9 monitors @ 2,500	22,500
12 magic scheduling boards @ 75	900
1 copy machine	2,400
1 duplicating machine	2,200
4 automatic telephone answerers @ 175	700
3 base stations, CB @ 130	390
12 mobile CB stations @ 100	1,200
4 cameras & accessories @ 700	2,800
9 backpack sprayers @ 200	<u>1,800</u>
Sub-Total	55,075

VEGETABLE SECTION

1 deep freeze	2,050
1 plot planter	450
3 rototillers @ 1,000	3,000
1 mulch layer	2,150
1 transplanter	870
6 knapsack sprayers @ 200	<u>1,200</u>
Sub-Total	9,720

FRUIT SECTION

1 motorized herbicide sprayer	900
1 tractor mower	3,586
1 power shredder	<u>6,755</u>
Sub-Total	11,241

SOILS SECTION

1 Greenhouse, 1440 Sq. ft.	36,000
1 balance, top loading, 5 kg	1,300
1 balance, top loading, 3 decimals	495
3 knapsack sprayers @ 200	600
soil physics, general	20,000
3 microkjeldahl @ 800	2,400
aa cathode tubes	2,500
1 muffle furnace	2,000
2 automatic dilutors @ 800	1,600
2 hot plates @ 510	1,020
2 magnetic stirrers @ 175	350

SOILS SECTION (CONT)

2	blenders	750
2	double ring infiltrometers @ 600	600
8	soil temperature recorders @ 500	4,000
4	evaporation pans @ 1,000	4,000
1	water distillation system	<u>2,455</u>

Sub-Total 80,070

PLANT PROTECTION

1	small growth chamber	<u>8,000</u>
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Sub-Total 8,000

ECONOMICS & STATISTICS

2	printer tables @ 400	800
	disc storage files	200
1	desk & chair	600
1	megabyte hard disk	<u>3,000</u>

Sub-Total 4,600

MAIN OFFICE & EXPATRIATE TRANSPORTATION

1	word processor	7,800
1	station wagon	<u>14,500</u>

Sub-Total 22,300

GENERAL

	Laboratory & office supplies @ 22,250/year	44,500
	Equipment maint. contracts @ 4,000/year	8,000

Sub-Total 52,500

TOTAL 243,506

(Rounded) 244,000

=====

AMENDMENT NO. 1

TO

PROJECT GRANT AGREEMENT

BETWEEN

THE HASHEMITE KINGDOM OF JORDAN

AND

THE UNITED STATES OF AMERICA

FOR

JORDAN VALLEY AGRICULTURAL SERVICES

PROJECT

DATE: 1987

TO
PROJECT GRANT
AGREEMENT

A.I.D. PROJECT NO. 278-0241

DATED: _____, 1987

BETWEEN, The Hashemite Kingdom of Jordan, acting through the Ministry of Planning ("Grantee") and the United States of America, acting through the Agency for International Development (A.I.D.).

WHEREAS, on September 28, 1981 the Grantee and A.I.D. ("Parties") entered into a Project Grant Agreement ("Agreement") whereby A.I.D. granted to the Grantee Five Million Six Hundred and Twenty Thousand United States Dollars (\$5,620,000) to finance foreign exchange and local currency costs of goods and services for the Jordan Valley Agricultural Services Project; and

WHEREAS, The Parties now wish to amend said Agreement to provide \$800,000 additional funds, and to expand the scope of the Project;

NOW THEREFORE, the Parties hereby agree as follows:

1. Article 3: Financing.

SECTION 3.1 The Grant. Delete the clause "Five Million Six Hundred and Twenty Thousand United States ("U.S.") Dollars (\$5,620,000)" and substitute therefor the clause "Six Million Four Hundred and Twenty Thousand United States ("U.S.") Dollars (\$6,420,000)".

SECTION 3.2 (b). Delete the figure "\$4,243,000" and substitute therefor the figure "\$5,543,000".

2. Article 8: Miscellaneous

Section 8.2 Representatives. Delete the title "President, National Planning Council" and substitute therefor the title "Minister of Planning".

3. Annex 1 to Project Agreement. Amend Annex 1 by substituting a revised Table 1, Summary Budget for the Original.

4. Except as amended herein, the Agreement dated September 28, 1981, shall remain in full force and effect.

IN WITNESS WHEREOF, the parties each acting through their duly authorized representatives, have caused this Agreement to be signed in their names and delivered as of the day and year first above written.

THE HASHEMITE KINGDOM OF JORDAN

BY: _____
 Taher H. Kanaan
TITLE: Minister of Planning

THE UNITED STATES OF AMERICA

BY: _____
 L. P. Reade
TITLE: Director, USAID/Jordan

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REVISED
TABLE 1
SUMMARY BUDGET U.S. DOLLARS (000)

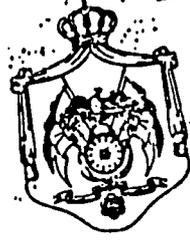
	FY82	FY83	FY84	FY85	FY86	TOTAL (FY82- FY86)	FY87*	FY88*	TOTAL LOP FY82-FY88
<u>US CONTRIBUTION</u>									
1. TECHNICAL ASSISTANCE									
Expatriate Service	207	731	633	703	660	2,934	927	100	3,961
Admin. Asst (National)	3	9	10	10	11	43	12	7	62
Total	210	740	643	713	671	2,977	939	107	4,023
2. TRAINING									
US long-term	-	15	141	192	22	370	(181)	-	189
US short-term	-	163	328	-	-	491	(240)	-	251
Univ. of Jordan	-	2	14	17	-	33	(16)	-	17
In service	-	9	5	-	-	14	(7)	-	7
English Training	-	4	-	-	-	4	(2)	-	2
Contingency, Overhead, etc.	-	24	64	27	3	118	(58)	-	60
Total	-	217	552	236	25	1,030	(504)	-	526
3. COMMODITIES	790	590	4	4	202	1,590	65	-	1,655
4. OTHER COSTS									
Evaluation Studies	-	-	23	-	-	23	10	-	33
Total U.S.	-	-	23	-	-	23	125	-	125
5. CONT/INFLATION									
Total	-	-	-	-	-	-	40	18	58
	1,000	1,547	1,222	953	898	5,620	675	125	6,420
<u>GOJ CONTRIBUTION</u>									
Personnel Salaries	254	539	593	652	658	2,696	500	500	3,696
Other	257	335	357	306	292	1,547	150	150	1,847
Total GOJ	511	874	950	958	950	4,243	650	650	5,543
Total USAID and GOJ	1,511	2,421	2,172	1,911	1,848	9,863	1,325	775	11,963

* Add-on and/or adjustment

THE HASHEMITE KINGDOM
OF JORDAN
MINISTRY OF PLANNING
AMMAN

Tel. { 44468 - 44470
44381 - 44385

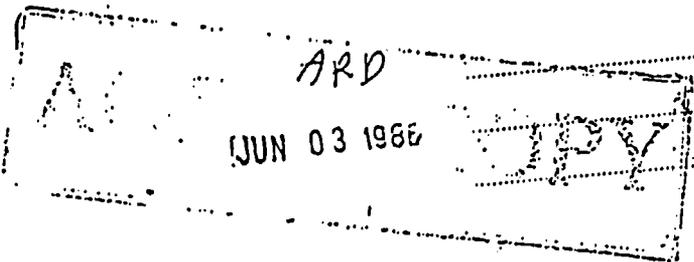
Tlx. 21319 - P.O. Box 555
Tolog. NPC - Amman



وزارة التخطيط
عمان

هاتف { ٤٤٤٧٠ - ٤٤٤٦٦
٤٤٣٨٥ - ٤٤٣٨١ }
تلكس ٢١٣١٩ - ص.ب ٥٥٥

NO. _____
DATE 58/1/26
2/6/1986
REF. _____



الرقم
التاريخ
الموافق

Mr. L. P. Reade
Director
USAID/J
Amman

Dear Mr. Reade,

I refer to the project "Agricultural Services in the Jordan Valley" which will terminate by the end of August 1986.

You are kindly requested to consider financing an extension of this project for a five year period. This extension, if approved, will allow for a continuation of the present project activities in order to develop the necessary research and extension programmes in the Jordan Valley.

Sincerely yours,

Minister of Planning