

ACTION MEMORANDUM FOR THE AGENCY DIRECTOR FOR FOOD AND AGRICULTURE,
BUREAU FOR SCIENCE AND TECHNOLOGY

FROM : S&T/AGR, David B. Bathrick

David B. Bathrick

JAN 4 1989

I

SUBJECT: Extension of Final Year of Obligation for Spring X Winter Wheat Project (931-0621) (Doc. # 062102)

Problem: Your approval is required to extend the authorized final year of obligation from FY 1989 to FY 1990 for the subject project. No other changes are proposed at this time.

Discussion: The Spring X Winter Wheat project was authorized in September 1976 and implemented through a contract to Oregon State University. The project has been amended several times and most recently (October 17, 1988) to provide for the use of funds from missions, regional bureaus and other AID/W offices in support of project activities. In order to continue on-going project activities through the Project Assistance Completion Date (PACD) of September 30, 1990, the final year of obligation needs to be extended to FY 1990. There is no change in the authorization life of project funding amount.

In FY 1986, the Administrator approved the project to exceed the ten-year life of project limitation, and the PACD approved at that time was September 30, 1990. A copy of that approval is attached. According to the Office of the General Counsel, you have the authority to approve this final year of obligation extension which is within total life of the project approved previously by the Administrator because the PACD will not be changed. (See the Project Data Sheet attached to the Project Authorization signed by the Administrator on April 16, 1986 and the Project Data Sheet attached to the authorization amendment proposed for your approval.)

Recommendation: That you approve the extension of the final year of obligation for project 931-0621 to FY 1990 by signing the attached Project Authorization Form and Project Data Sheet.

Attachments:

1. Project Data Sheet
2. Project Authorization Form
3. Project Authorization Amendment #4, 4/16/86
4. Project Authorization Amendment #5

Clearances:

S&T/AGR/AP:HHortik	<i>HH</i> (final)	Date	<i>12-27-88</i>
S&T/AGR/AP:FMertens	(draft)	Date	12/06/88
S&T/AGR:ERoche	(draft)	Date	12/09/88
S&T/PO:DSeldon	<i>DS</i>	Date	<i>11/9/88</i>
GC/CP:STisa	(draft)	Date	12/22/88

S&T/AGR:MBlakenny:mb:12/09/88:WANG#4890f

PROJECT DATA SHEET

1. TRANSACTION CODE

A A = Add
C = Change
D = Delete

Amendment Number
5

DOCUMENT CODE
3

COUNTRY/ENTITY Worldwide

4. BUREAU/OFFICE
Bureau for Science and Technology
Office of Agriculture 10

5. PROJECT NUMBER
931-0621

5. PROJECT TITLE (maximum 40 characters)
Spring & Winter Wheat

6. PROJECT ASSISTANCE COMPLETION DATE (PACD)
MM DD YY
01 9 30 91 0

7. ESTIMATED DATE OF OBLIGATION
(Under "B" below, enter 1, 2, 3, or 4)
A. Initial FY 7 8 9 0
B. Quarter 1 2 3 4
C. Final FY 7 8 9 0

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	629		629	5,595		5,595
(Grant) S&T/AGR	(629)	()	(629)	(5,095)	()	(5,095)
Missions, RBS & other	()	()	()	(500)	()	(500)
Other: 1. AID/W offices						
U.S. 2.						
Host Country						
Other Donor(s)						
TOTALS	629		629	5,595		5,595

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) ARDN	111	963		4,645				5,095	
(2)									
(3)									
(4)									
TOTALS				4,645				5,095	

10. SECONDARY TECHNICAL CODES (maximum 8 codes of 3 positions each)
073 310

11. SECONDARY PURPOSE CODE

12. SPECIAL CONCERNS CODES (maximum 7 codes of 4 positions each)

A. Code	R/AG	BF	XII	NUTR
B. Amount	4,695	4,695	4,695	600

13. PROJECT PURPOSE (maximum 400 characters)

No Change

14. SCHEDULED EVALUATIONS

Interim	MM	YY	MM	YY	Final	MM	YY
<input type="checkbox"/>	01	88			<input checked="" type="checkbox"/>	11	89

15. SOURCE/ORIGIN OF GOODS AND SERVICES
 000 M1 Local Other (Specify)

16. AMENDMENTS/NATURE OF CHANGE PROPOSED (This is page 1 of a _____ page PP Amendment.)
 To extend the final year of obligation from FY 1989 to FY 1990 in order to support project activities through the Project Assistance Completion Date of 9/30/90.

17. APPROVED BY
 Signature: Dr. William Furtick *[Signature]*
 Title: Agency Director for S&T/FA
 Date Signed: MM DD YY
 01 11 89

18. DATE DOCUMENT RECEIVED IN AID/W, OR FOR AID/W DOCUMENTS, DATE OF DISTRIBUTION
 MM DD YY

PROJECT AUTHORIZATION AMENDMENT # 6

ENTITY : Bureau for Science and Technology

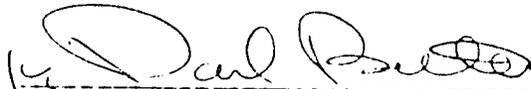
PROJECT TITLE : Spring X Winter Wheat

PROJECT NUMBER: 931-0621

A. Pursuant to Section 103 of the Foreign Assistance Act of 1966 as amended, the centrally funded Spring X Winter Wheat project was authorized in September 1976 and amended on July 30, 1979; June 18, 1982; March 30, 1984; July 22, 1985; April 16, 1986 and last amended on October 17, 1988. That authorization is hereby amended as follows:

1. Authorized final year of obligation is extended to FY 1990.

B. The authorization cited above remains in force except as herein amended.



William Furtick
Agency Director for Food and Agriculture
Bureau for Science and Technology

Date: 1-11-89

Clearances

S&T/AGR/AP:HHortik	Furtick (draft)	Date	12-27-88
S&T/AGR/AP:PMertens	(draft)	Date	12/6/88
S&T/AGR:ERoche	(draft)	Date	12/9/88
GC/CP:STisa	(draft)	Date	12/22/88
S&T/AGR:DBathrick	(draft)	Date	1-4/89
S&T/PO:DSeldon	(draft)	Date	1-9/89

S&T/AGR:MBlakeney:12/5/88

APR 3 1988

SENIOR ASSISTANT ADMINISTRATOR

ACTION MEMORANDUM FOR THE ADMINISTRATOR

THRU: AA/PPC, Allison B. Herrick (Acting) *ABH*
FROM: SAA/S&T, N. C. Brady *NCB*
SUBJECT: Spring X Winter Wheat, Project 931-0621
(DOC. NO. 0002)

PROBLEM: Your approval is required for a four-year extension of the subject project because the cumulative life of project will exceed a total of ten years from the date of initial project obligation. The proposal will extend the project to FY 1989 and increase the authorized funding level by \$1,450,000 to a new total of \$5,095,000.

DISCUSSION: A.I.D. awarded Oregon State University (OSU) a contract in 1976 to carry out winter wheat improvement under the subject project. That contract expired in June, 1984, at which time A.I.D. awarded OSU a cooperative agreement to continue project activities through May, 1985. In May, 1985 the cooperative agreement was extended through December, 1985. A team evaluation was conducted in July, 1985, and the team recommended the project not be terminated, but that A.I.D. continue long-term support of OSU to carry out this program. At this time, we recommend a four-year extension of the project to be carried out under a cooperative agreement based on a proposal submitted by OSU.

Accomplishments to date: Research for the improvement of wheat varieties adapted to LDCs has been done largely by the International Maize and Wheat Improvement Center (CIMMYT). This research focussed on the improvement of spring wheats only. Since large areas in the LDCs are better suited to winter wheats and facultative wheats, OSU, in collaboration with CIMMYT, started a winter wheat improvement program under the subject project in 1976. A significant feature of the improved germplasm resulting from the integration of winter and spring gene pools is that resulting progeny exhibit a much greater degree of tolerance or resistance to abiotic (heat, drought, salt, mineral toxicity) and biotic (diseases, pests) stresses. Under this project, CIMMYT made 100,000 spring x winter wheat crosses with material provided by OSU from its germplasm pool (6500 collected under this program). The resulting hybrids, after further crossing in Oregon, were screened in subsequent generations for winter growth habit and

606523

agronomic characteristics desirable in areas where winter hardiness is required. This screening was done in three locations in Oregon and Turkey. The surviving selected germplasms, identified as potentially successful in LDCs, have been sent to over 100 cooperators in 47 LDCs and 120 locations for testing. These germplasm (cultivars) were either directly released locally as new varieties or are in the stage of further improvement for local adaptations.

The time required for the development of a new variety until its release is usually 10-15 years. However, six improved varieties have already been released by collaborating institutions in Turkey and numerous varieties are being considered for possible release in other locations. In fact, Turkey's annual wheat production has increased from 6.7 million metric tons to 17 to 18 million metric tons since OSU has been involved in this wheat improvement program in Turkey. In addition, OSU has trained and graduated 76 students from 21 countries under this program, and many have cooperated actively with OSU after returning to their home countries.

b. Scope of Work of the Proposed Extension

Under the proposed extension, OSU will continue its ongoing activities to develop superior varieties of winter wheat and facultative wheat for LDCs and will initiate similar activities for barley. The key program elements are the systematic hybridization of winter with spring types of wheat and barley cultivars and the subsequent dissemination of superior stocks of the same with emphasis on increase of yields, nutritional value and multiple resistance and tolerance to diseases, pests, temperature extremes, salts and certain mineral toxicities.

In order to reach these goals, OSU will utilize tissue culture, as well as the natural selection pressure (e.g. cold, heat, drought, etc.) of the various Oregon growing sites. Tissue culture techniques allow nutritional improvements and new resistances and tolerances to constraints to be developed relatively quickly and inexpensively in the laboratory before the final tests in the field. OSU will also continue its graduate training program for a total of 20 students at the M.S. and Ph.D. levels during this period, and will serve as a training resource/site for research assistants and visiting scientists from LDCs.

The decision to include barley in this project extension is based on the fact that barley, in terms of research, is the most neglected major food crop (improved barley cultivars yielded 64% more than unimproved varieties in North Africa) although it is specially adapted for areas where short growing

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PROJECT DATA SHEET

1. TRANSACTION CODE

A = Add
 C = Change
 D = Delete

Amendment Number

4

DOCUMENT CODE

3

COUNTRY/ENTITY
Worldwide

3. PROJECT NUMBER

931-0621

4. BUREAU/OFFICE

S&T/AGR

10

5. PROJECT TITLE (maximum 40 characters)

Spring X Winter Wheat

6. PROJECT ASSISTANCE COMPLETION DATE (PACD)

MM DD YY
019 | 30 | 91 0

7. ESTIMATED DATE OF OBLIGATION
(Under "B." below, enter 1, 2, 3, or 4)

A. Initial FY 76

B. Quarter 2

C. Final FY 8191

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	629	-	629	5,095	-	5,095
(Grant)	(629)	(-)	(629)	(5,095)	(-)	(5,095)
(Loan)	()	()	()	()	()	()
Other U.S.						
1.						
2.						
Host Country						
Other Donor(s)						
TOTALS	629	-	629	5,095	-	5,095

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) ARDN	111	963	-	3,645	-	1,450	-	5,095	-
(2)									
(3)									
(4)									
TOTALS				3,645		1,450	-	5,095	

10. SECONDARY TECHNICAL CODES (maximum 6 codes of 3 positions each)

073 | 310

11. SECONDARY PURPOSE CODE

12. SPECIAL CONCERNS CODES (maximum 7 codes of 4 positions each)

A. Code | R/AG | BF | XII | NUTR
 B. Amount | 4,695 | 4,695 | 4,695 | 600

13. PROJECT PURPOSE (maximum 480 characters)

To develop improved wheat and barley varieties with stress resistance to disease, insects and drought.

14. SCHEDULED EVALUATIONS

Interim MM YY | MM YY | Final MM YY
 09 | 81 | 8 | 11 | 0 | 89

15. SOURCE/ORIGIN OF GOODS AND SERVICES

000 941 Local Other (Specify)

16. AMENDMENTS/NATURE OF CHANGE PROPOSED (This is page 1 of a _____ page PP Amendment)

This amendment extends the project by four (4) years from FY 1986 through FY 1990 and increases the authorized LOP cost by \$1,450,000.

17. APPROVED BY

Signature
 Anson R. Bertrand
 Director
 S&T/FA

Date Signed
 MM DD YY

18. DATE DOCUMENT RECEIVED BY AID/W, OR FOR AID/W DOCUMENTS, DATE OF DISTRIBUTION

MM DD YY

Project Authorization

Entity : Bureau for Science and Technology

Project Title : Spring X Winter Wheat

Project Number: 931-0621

1. Pursuant to Section 103 of the Foreign Assistance Act of 1961, as amended, the Spring X Winter Wheat project, which is centrally funded, was last amended on July 22, 1985. That amendment is hereby amended as follows:

- a) The authorized final year of obligation is extended to FY 1989;
- b) The authorized life of the project cost is increased to \$5,095,000.

2. The goal of this project is to increase the quantity and nutritional value of food crops in developing countries. The project will make available to LDCs high-yielding, nutritious varieties of wheat and barley with multiple resistance to moisture and temperature stresses, diseases and insects, together with improved practices for their cultivation. Project activities will include: 1) Development and maintenance of a germplasm bank of superior winter wheat and winter barley cultivars for hybridization, 2) creation of greater genetic diversity for improvement of winter and spring types of barley and wheats; 3) improvement of nutritional quality in wheat and winter barley; 4) application of suitable selection pressures to identify superior winter wheat and winter barley germplasm with improved yield adaptation, disease resistance and tolerance to aluminum, drought and herbicides; 5) distribution of superior agronomic lines and fixed varieties to all cooperators; 6) training of scientists who have responsibility for adaptive research; and, 7) establishment of new relationships and the expansion of existing ones between LDC agencies and institutions, U.S. universities, USDA, USAID missions, FAO and international agricultural development centers.

3. The Agreement (s) which may be negotiated and executed by the officer(s) to whom such authority is delegated in accordance with A.I.D. regulations and Delegations of Authority shall be subject to the following essential terms and covenants and major conditions, together with such other terms and conditions as A.I.D. may deem appropriate.

4. Source and Origin of Commodities, Nationality of Services

Commodities financed by A.I.D. under the project shall have their source and origin in the Cooperating Country^{1/} or the United States except as A.I.D. may otherwise agree in writing. Except for ocean shipping, the suppliers of commodities or services shall have the Cooperating Country or the United States as their place of nationality, except as A.I.D. may otherwise agree in writing. Ocean shipping financed by A.I.D. under the project shall, except as A.I.D. may otherwise agree in writing, be financed on flag vessels of the United States.

M. Peter McPherson
M. Peter McPherson
Administrator/A.I.D. APR 16 1986

Clearances:

S&T/AGR, ARBertrand	<i>AB</i>	Date	<i>3/18/86</i>
S&T/PO, GEaton	<i>H. G. Eaton</i>	Date	<i>28 Mar 86</i>
SAA/S&T, NCBrady	<i>NC</i>	Date	<i>4/3/86</i>
PPC/PPDPR, ARosenberg	XXXXXXXXXXXXXXXXXXXX	Date	XXXXXXXXXXXXXXXXXXXX
AA/PPC, ABHerrick	<i>L.</i>	Date	<i>4/10/86</i>
GC, HFry	<i>HF</i>	Date	<i>4/2/86</i>
<i>38.2</i> PPC/PDPR, ARosenberg	<i>AR</i>	Date	<i>9/8/86</i>

^{1/} Each developing country where training or other assistance takes place under the project will be deemed to be a cooperating country for the purpose of permitting local cost financing.

S&T/AGR:FEMertens:map:1/17/86:W3150e

OCT 4 1989

ACTION MEMORANDUM TO THE AGENCY DIRECTOR FOR FOOD AND AGRICULTURE
BUREAU FOR SCIENCE AND TECHNOLOGY
FROM: S&T/AGR, David D. BathrickSUBJECT: Spring and Winter Wheat
Project 931-0621, Authorization Amendment
DOC # 062105

PROBLEM: Your approval is requested to amend the authorization for the subject project to provide for the use of funds from missions, regional bureaus, and other AID/W offices in support of project activities.

DISCUSSION: The Spring X Winter Wheat project was authorized in September 1976 as a three-year activity and was implemented by Oregon State University (OSU). Since that time the project authorization has been amended several times for various reasons. The project was last amended on April 16, 1986 to extend the project for four additional years; increase the LOP funding to \$5,095,000, extend the project assistance completion date (PACD) to September 30, 1990, and extend the final year of obligation to 1989.

No provision was made to allow missions, regional bureaus and other AID/W offices to access the expertise developed under this project. The activities under the cooperative agreement will benefit also from the information and experience gained by providing services to LDCs related to the research on spring and winter wheat undertaken by OSU under the cooperative agreement. A companion basic ordering agreement (BOA) will be established as the mechanism by which these services can be accessed. The Spring and Winter Wheat project will benefit also from the information and experience gained by providing services to missions, regional bureaus, and other AID/W offices.

We estimate that there will be up to \$500,000 in buy-in requests for services. These additional funds will be separately authorized under various mission, regional bureau, or other AID/W centrally funded projects, but will also require your approval to be used under the project. Once you have approved the use of buy-in funds under the project, we will process a waiver pursuant to Federal Acquisition Regulation Subpart 6.302-3(a)(2) - the

research capability exception - to exempt the buy-in requests from full and open competition. The services will be provided by delivery orders issued under the BOA.

SER/OP has reviewed a draft of the proposed waiver request and has advised us informally that such waiver and establishment of the BOA is appropriate and will be approved.

RECOMMENDATION: That you sign the attached Project Data Sheet and the Project Authorization Form to provide for up to \$500,000 to be contributed by missions, regional bureaus, and AID/W offices for additional country activities within the overall scope of this project.

APPROVED: William Furtak

DISAPPROVED: _____

DATE: 10/17/88

Attachments: Project Data Sheet
Project Authorization Form

Clearances:	S&T/AGR/AP:Harvey Hortik	<u>Hortik</u>	Date	<u>9/26/88</u>
	S&T/AGR/AP:Frank Mertens	<u>F. Mertens</u>	Date	<u>9/23/88</u>
	S&T/AGR :Elizabeth Roche	<u>Roche</u>	Date	<u>9/30/88</u>
	S&T/PO :Douglas Sheldon	<u>Sheldon</u>	Date	<u>10/13/88</u>

Drafted by:MMozynski:54105:09/19/88:WANG #4654A

PROJECT DATA SHEET

1. TRANSACTION CODE

A = Add
 C = Change
 D = Delete

Amendment Number
5

DOCUMENT CODE
3

COUNTRY/ENTITY
Worldwide

3. PROJECT NUMBER
931-0621

4. BUREAU/OFFICE
Bureau for Science & Technology
Office of Agriculture

5. PROJECT TITLE (maximum 40 characters)
Spring X Winter Wheat

6. PROJECT ASSISTANCE COMPLETION DATE (PACD)

MM DD YY
09 30 90

7. ESTIMATED DATE OF OBLIGATION
(Under "B" below, enter 1, 2, 3, or 4)

A. Initial FY 76

B. Quarter 2

C. Final FY 89

8. COSTS (\$000 OR EQUIVALENT \$1 =)

A. FUNDING SOURCE	FISCAL FY			LIFE OF PROJECT		
	B. FX	C. L/C	D. Total	E. FX	F. L/C	G. Total
AID Appropriated Total (Grant) S&T/AGR	629		629	5,595		5,595
Missions, RBs, & other	(629)	()	(629)	(5,095)	()	(5,095)
Other U.S. 1. AID/W offices				(500*)	()	(500*)
2.						
Host Country						
Other Donor(s)						
TOTALS	629		629	5,595		5,595

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) ARDN	III	963		4,645				5,095	
(2)									
(3)									
(4)									
TOTALS				4,645				5,095	

10. SECONDARY TECHNICAL CODES (maximum 6 codes of 3 positions each)
073 310

11. SECONDARY PURPOSE CODE

12. SPECIAL CONCERNS CODES (maximum 7 codes of 4 positions each)

A. Code	R/AG	BF	XII	NUTR
B. Amount	4,695	4,695	4,695	600

13. PROJECT PURPOSE (maximum 180 characters)

To develop improved wheat and barley varieties with stress resistance to disease, insects, and drought.

14. SCHEDULED EVALUATIONS

Interim MM YY 09 88

Final MM YY 10 89

15. SOURCE/ORIGIN OF GOODS AND SERVICES

000 941 Local Other (Specify)

16. AMENDMENTS/NATURE OF CHANGE PROPOSED (This is page 1 of a _____ page PP Amendment)

The purpose of this amendment is to provide for the use of funds from missions, regional bureaus, and other AID/W offices in support of project activities.

* Funds to be contributed by missions, regional bureaus, and other AID/W offices are authorized under separate project authorizations.

17. APPROVED BY

Signature

Dr. William Furtick

William Furtick

Title

Agency Director for S&T/FA

Date Signed

MM DD YY
6/17/88

18. DATE DOCUMENT RECEIVED IN AID/W, OR FOR AID/W DOCUMENTS, DATE OF DISTRIBUTION

MM DD YY

PROJECT AUTHORIZATION

Entity: Bureau for Science and Technology

Project Title: Spring X Winter Wheat

Project Number: 931-0621 DOC # 062105

A. Pursuant to Section 103 of the Foreign Assistance Act of 1961, as amended, the centrally funded Spring X Winter Wheat project was authorized in September 1976 and amended on July 30, 1979, June 18, 1982, March 30, 1984, July 22, 1985, and last amended on April 16, 1986. That authorization is hereby amended as follows:

1. Up to \$500,000 from missions, regional bureaus, and A.I.D./W offices may be provided in support of this project.

B. The authorization cited above remains in force except as herein amended.

William Furtick
William Furtick
Agency Director for Food and Agriculture
Bureau for Science and Technology

Date: 10-17-88

Clearances:	GC/CP	:Steve Tisa	<u>SNT</u>	Date	<u>9/28/88</u>
	S&T/AGR	:Elizabeth Roche	<u>ER</u>	Date	<u>9/30/88</u>
	S&T/AGR	:David Bathrick	<u>DB</u>	Date	<u>10-4-88</u>
	S&T/PO,	:Douglas Sheldon	<u>DJ</u>	Date	<u>10/17/88</u>

Drafted by:S&T/AGR:MMozynski:9/19/88:ext 54105:WANG 4654A: