

<b>AGENCY FOR INTERNATIONAL DEVELOPMENT</b> <b>PROJECT DATA SHEET</b>	<b>1. TRANSACTION CODE</b> <input type="checkbox"/> A = Add <input checked="" type="checkbox"/> C = Change <input type="checkbox"/> D = Delete	Amendment Number 3	<b>DOCUMENT CODE</b> 3
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<b>2. COUNTRY/ENTITY</b> Inter regional	<b>3. PROJECT NUMBER</b> 931-0621
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<b>4. BUREAU/OFFICE</b> S&T/AGR	10	<b>5. PROJECT TITLE (maximum 40 characters)</b> Spring and Winter Wheat
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<b>6. PROJECT ASSISTANCE COMPLETION DATE (PACD)</b> MM DD YY 05 31 85	<b>7. ESTIMATED DATE OF OBLIGATION</b> (Under 'B.' below, enter 1, 2, 3, or 4) A. Initial FY 76 B. Quarter 4 C. Final FY 84
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8. COSTS (\$000 OR EQUIVALENT \$1 <sup>m</sup> )						
A. FUNDING SOURCE	FIRST FY 76			LIFE OF PROJECT		
	B. FX	C. L/C	D. Total	E. FX	F. L/C	G. Total
AID Appropriated Total	629		629	3,677		3,677
(Grant) S&T/AGR	( 629 )	( )	( 629 )	( 3,477 )	( )	( 3,477 )
(Grant) Reg. Bur. & Mission*	( )	( )	( )	( 200 )	( )	( 200 )
Other U.S.						
1. Host Country					1,000	1,000
2. 20 Country Collaborators -						
Other Donor(s) CIMMYT	600		600	3,000		3,000
<b>TOTALS</b>	1,229		1,229	6,677	1,000	7,677

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) FN	111	963		2,914		470		3,477	
(2)									
(3)									
(4)									
<b>TOTALS</b>				2,914		470		3,477	

<b>10. SECONDARY TECHNICAL CODES (maximum 5 codes of 3 positions each)</b> 073      310	<b>11. SECONDARY PURPOSE CODE</b>
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<b>12. SPECIAL CONCERNS CODES (maximum 7 codes of 4 positions each)</b>					
A. Code	R/AG	BF	XII	Nutr	
B. Amount	3,357	3,357	3,357	300	

**13. PROJECT PURPOSE (maximum 480 characters)**

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

<b>14. SCHEDULED EVALUATIONS</b> Interim    MM YY    MM YY    Final    MM YY	<b>15. SOURCE/ORIGIN OF GOODS AND SERVICES</b> <input type="checkbox"/> 090 <input type="checkbox"/> 941 <input type="checkbox"/> Local <input checked="" type="checkbox"/> Other (Specify) <u>Host Country</u>
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**16. AMENDMENTS/NATURE OF CHANGE PROPOSED (This is page 1 of a \_\_\_\_\_ page PP Amendment.)**

This amendment increases the authorized LOP cost by \$470,000, provides for mission and R.B. "Buy-ins" and extends the final year for obligation from FY 1982 to FY 1984.

\* The estimated regional bureau and mission contributions are not included in this authorization. It is anticipated that they will be contributing under separate project authorities.

<b>17. APPROVED BY</b>	Signature Title Anson R. Bertrand Director, Office of Agriculture	Date Signed MM DD YY 10/31/84	<b>18. DATE DOCUMENT RECEIVED IN AID/W, OR FOR AID/W DOCUMENTS, DATE OF DISTRIBUTION</b> MM DD YY 
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## PROJECT AUTHORIZATION

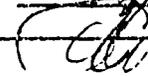
ENTITY: Bureau for Science and Technology  
PROJECT TITLE: Spring & Winter Wheat  
PROJECT NUMBER: 931-0621

- A. Pursuant to Section 103 of the Foreign Assistance Act of 1961, as amended, the centrally funded Spring and Winter Wheat project was authorized in September 1976 and amended on January 18, 1982. That authorization is hereby further amended as follows:
1. The authorized final year of obligation is extended from FY 1982 to FY 1984.
  2. The authorized life-of-project, S&T Bureau funding is increased from \$3,007,000 to \$3,477,000 to help in financing the foreign exchange and local currency costs of the project. A new total of up to \$3,677,000 of A.I.D appropriated funds is approved for use in this project in anticipation that regional bureaus and missions may contribute up to \$200,000, under various project authorities, to supplement the funds provided by the S&T Bureau and ensure an adequate level of technical assistance services to meet their needs.
  3. Source and Origin of Goods and Services
    - a. Each developing country where training or other assistance takes place under this project shall be deemed to be a cooperating country for the purpose of permitting local cost financing.
    - b. Goods and services, except for ocean shipping, financed by A.I.D. under the project shall have their source and origin in the cooperating country or in the United States 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 only on flag vessels of the United States.

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

  
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for J. S. Robins  
Agency Director for Food and Agriculture  
Bureau for Science and Technology  
Date 3-30-84

Clearances:

S&T/AGR:JYohe		Date	<u>3/14/84</u>
S&T/AGR:JARoyer		Date	<u>3/13/84</u>
S&T/AGR:ARBertrand		Date	<u>2/12/84</u>
S&T/PO:GEaton		Date	<u>3-29-84</u>

S&T/AGR:JARoyer:br:3/9/84:Wang No. 1459e

March 14, 1984

MEMORANDUM

TO: S&T/FA, J. S. Robins

FROM: S&T/AGR, Anson R. Bertrand *ARB*

SUBJECT: Explanatory notes regarding the amended authorization for the Spring and Winter Wheat project.

We are now asking that the authorization amendment provide for an extension of up to 12 months for the OSU activity. If we follow Dr. Brady's plan of obligating funds for OSU as part of the CIMMYT FY 85 core grant, we will need this amount of time. Historically, the CIMMYT agreement has been signed in March each year. CIMMYT would need some time after receiving their grant to negotiate an agreement with OSU and get the money flowing. I have explained this to Dr. Brady and he agreed that a 12 month extension would be prudent.

Phil Casteel has looked over the scope of work for this project and believes that a cooperative agreement would be an appropriate instrument for the extension.

We are skeptical about the possibility of mission buy-ins during this 12 month period but, if we could secure any, they might be very useful in moving toward a ribbon project. We want to leave the door open and have, therefore, included the possibility of buy-ins in the authorization.

We are following the same course for the Barley project for which we already have sufficient authorization.

March 27, 1984

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

FROM: S&T/AGR, Anson R. Bertrand *Anson R. Bertrand*

SUBJECT: Extension of Project 931-0621, Spring X Winter Wheat

Problem: The subject project needs to be extended for twelve months to complete the current research activity which will be followed by a new project for Small Grain Research.

Discussion:

Experience to Date - Review and Evaluation - This research contract started in 1976 and the current extension was approved in 1979. The project was evaluated in 1978, 1980, and 1982. During the second quinquennial review of CIMMYT, several of the Review Panel members including the TAC Executive Secretary, P. J. Mahler visited OSU, after the CIMMYT review, to review the relationships of CIMMYT and Oregon State University in wheat breeding. That group was very pleased with the effectiveness of the relationship between the two institutions. They reported that the goals for germ plasm distribution were clearly complimentary with OSU distributing materials for regions requiring winter hardiness and CIMMYT distributing materials for other areas. For each of the three A.I.D. reviews, each review team was highly complimentary of the progress being made by the project and recommended it for further extension. The team in 1982 said "In terms of overall accomplishment and progress, across-the-board success continues to be enjoyed. The project remains on target relative to purpose and well-advanced with regard to output achievement". They also noted that OSU had acted upon all recommendations of prior review teams and that they could see positive results from those actions.

Scope of the Current Research - The current research contract with OSU includes: 1) Maintenance of a germ plasm bank, 2) incorporation of genetic diversity into broad-based germ plasm, 3) incorporation of superior nutritional qualities, 4) conducting selection pressure studies, 5) development of early generation breeding stocks, 6) development, maintenance and distribution of the International Winter Wheat Screening nursery. This goes to 94 cooperators in 49 countries, 7) studies on varieties X management interaction, 8) training, 9) networking and promoting communication and cooperation between wheat researchers worldwide and 10) providing in-country (LDCs) training and seminar programs.

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In order for the new Small Grains Research project to build upon the current resources, they must be maintained until the new project is ready to pick them up. We therefore, propose to maintain the research effort thru May 31, 1985 by extending the OSU contract.

Proposed Extension - The OSU contract expires on March 31, 1984. However, there are sufficient funds currently obligated and unexpended to continue project operations thru May 31, 1984. We have submitted a PIO/T requesting this unfunded contract extension. By the end of May, we need to have a new, funded agreement signed. We have been advised by the contract office that a cooperative agreement would be an appropriate instrument for the work to be conducted from June 1, 1984 thru May 31, 1985. In fact, although our relationship with OSU under this program began before the Agency started using cooperative agreements and has been conducted since 1976 under contract, the program has been one of collaboration and cooperation. OSU has been providing services and facilities for the program which were not reimbursed under the contract. Also the management of the research activity, as reflected in the past contracts, has been collaborative rather than strictly AID directed. We agree with the contracting officer that a cooperative agreement would be the appropriate instrument to continue this research.

FY 84 Budget Implication - S&T/AGR's current OYB contains \$225,000 for an extension of the Spring X Winter Wheat project but it is not included in the FY 1984 Congressional Presentation. We will notify Congress of the increased authorization and the intent to obligate as soon as the amended authorization is approved.

We estimate that the twelve month extension will require \$470,000. The additional \$245,000 will come from the proposed new Small Grains project which is now budgeted at \$614,000 in S&T/AGR's FY 84 OYB. The remaining money for Small Grains Research budgeted at \$614,000 in S&T/AGR's FY 84 OYB will be used to forward fund another existing project so that more funds will be available to start the Small Grains project in FY 85.

Recommendation:

1. That you sign the attached project authorization to extend the final obligation date of project 931-0621, Spring X Winter Wheat, from FY 1982 to FY 1984, authorize additional S&T funding of \$470,000 and approve the use of up to \$200,000 from regional bureaus and missions for potential buy-ins.
2. That you sign the attached memo to Phillip Casteel requesting negotiation with Oregon State University without further consideration of other potential cooperators.

Attachments:

1. Project Data Sheet and Authorization
2. Memorandum to Casteel from Robins

Clearance:

S&T/PO, G. Eaton



Date: 3-21-84

30 MAR 1984

MEMORANDUM

TO: SER/CM, Phillip Casteel

FROM: S&T/FA, *J. S. Robins* J. S. Robins

SUBJECT: Selection of a Cooperator for Spring X Winter Wheat Research.

I request that you negotiate only with Oregon State University (OSU) for a Cooperative Agreement to carry out the Spring X Winter Wheat Research Program under Project 931-0621.

While several other U. S. universities such as Kansas State University, University of Nebraska and Texas A & M University have wheat research programs, none of these programs have the experience or resources of OSU in breeding spring X winter wheats. OSU is the only one of these universities with ready access to the field test sites with the wide variations in climatic and soil conditions necessary for this research.

OSU has been engaged in winter wheat improvement for 75 years. Scientists from OSU introduced some of the semi-dwarf spring type wheats from CIMMYT into the coastal areas of Turkey. The OSU team was supported by a USAID grant to develop a package of cultural practices to increase winter wheat production under dryland conditions. The Rockefeller Foundation developed a Wheat Research and Training Center in Turkey. The linkage between these three agencies have been strengthened through the training of young dedicated scientists from many LDCs for graduate training in cereal breeding at OSU. These trained scientists have been able to achieve a degree of excellence in wheat improvement with emphasis on small farms which are marginally productive due to environmental stressed conditions.

The winter X spring concept of increasing genetic variability to improve both winter and spring wheats was initiated in Chile and subsequently moved to Davis, California. It became apparent that the environmental conditions in Oregon were more similar to the winter wheat growing conditions found in LDCs and thus the program was transferred to OSU.

The first crosses between winter and spring wheats are made at CIMMYT. In Oregon, the winter X spring F<sub>1</sub> material is top and double crossed back to the winter wheat types. In conducting subsequent evaluations, three major testing sites are utilized for screening segregating populations. These sites not only provide varying degrees for moisture stress, but also allow selection of winter hardy lines and those resistant to the major diseases observed in the winter wheat producing regions of the world. The different ecological environmental conditions found at these three testing sites are unique to Oregon. Furthermore, these conditions are essential for conducting the research to be continued under this project. Nowhere in the United States and few places in the world can such an ideal situation be found for evaluating germ plasm under the many different environmental stresses within such a short distance as can be found in the state of Oregon.

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OSU has purchased approximately \$75,000 worth of equipment from prior project funds to support the research carried out under this project. In addition to this equipment, OSU has built a new cereals laboratory at a cost of \$100,000. This includes the establishment of a quality laboratory to monitor and develop superior nutritional lines of wheat. In addition to office, greenhouse and laboratory facilities, access to the computer center at OSU is being utilized with the establishment of a terminal in the project facilities as part of the program. If a cooperator different from OSU were selected, all of these facilities would have to be duplicated.

The most significant feature of the international cereal breeding program at OSU is the team of people involved. By practicing the team concept of conducting research, the spin-offs to the dedicated and gifted students associated with the Program are very positive. The interaction and complementarity of the team are most evident as measured in terms of efficiency, productivity and the magnitude of diversity of the program. This team approach on cereal breeding is unique to OSU in contrast to all other U. S. institutions involved in similar research. OSU has an outstanding project research team which constitutes the only U. S. group of experts dealing with the hybridization of spring X winter wheat.

In short, a cooperator other than OSU would require substantial time and investment of money before they would be able to carry out the program specified in the Cooperative Agreement.

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