

3060002 (12)

AID: 1020-25 (7-88)			SECURITY CLASSIFICATION UNCLASSIFIED			001 PROJECT NUMBER 306-11-190-002.1 PD-AAC-430-E1		
PROJECT APPRAISAL REPORT (PAR) (U-446) See M.O. 1026.1								
002 PAR NO.	DAY	YR.	003 U.S. OBLIGATION (FAN) AS OF: 2870 FY 67 Thru FY 75			004 PROJECT TITLE NATIONAL AGRICULTURE DEVELOPMENT Crop Improvement RESEARCH		
005 COOPERATING COUNTRY - REGION - AID/W OFFICE AFGHANISTAN						006 CONFIDENTIAL		

006 FUNDING TABLE

AID DOLLAR FINANCING-OBLIGATIONS (\$000)	TOTAL	CON-TRACT (NON-ADD)	PERSONNEL SERVICES			PARTICIPANTS		COMMODITIES		OTHER COSTS	
			AID	PASA	CON-TRACT	DIR. PASA	CON-TRACT	DIR. PASA	CON-TRACT	DIR. PASA	CON-TRACT
CUMULATIVE NET THRU ACTUAL YEAR (FY 1967)	3628	992	1427	39	743	334	86	801	150	35	13
PROPOSED OPERATIONAL YEAR (FY 1975)	346	6	228	19	6	75	-	14	-	4	-

19p.

000 VALUE OF P.L. 480 COMMODITIES (\$000) → Thru Actual Year : **None** Operational Year Program : **None**

007 IMPLEMENTING AGENCY TABLE

If contractors or participating agencies are employed, enter the name and contract or PASA number of each in appropriate spaces below; in the case of voluntary agencies, enter name and registration number from M.O. 1551.1, Attachment A. Enter the appropriate descriptive code in columns b and c, using the coding guide provided below.

TYPE CODE b	TYPE CODE c	a. IMPLEMENTING AGENCY	TYPE CODE		d. CONTRACT/PASA/VOLAG NO.	e. LEAVE BLANK FOR AID/W USE
			b.	c.		
1. U.S. CONTRACTOR 2. LOCAL CONTRACTOR 3. THIRD COUNTRY CONTRACTOR 4. PARTICIPATING AGENCY 5. VOLUNTARY AGENCY 6. OTHER:	0. PARTICIPATING AGENCY 1. UNIVERSITY 2. NON-PROFIT INSTITUTION 3. ARCHITECTURAL & ENGINEERING 4. CONSTRUCTION 5. OTHER COMMERCIAL 6. INDIVIDUAL 7. OTHER:	1. 2. 3.				

PART I - PROJECT IMPACT

I-A. GENERAL NARRATIVE STATEMENT ON PROJECT EFFECTIVENESS, SIGNIFICANCE & EFFICIENCY.

This summary narrative should begin with a brief (one or two paragraph) statement of the principal events in the history of the project since the last PAR. Following this should come a concise narrative statement which evaluates the overall efficiency, effectiveness and significance of the project from the standpoint of:

- (1) overall performance and effectiveness of project implementation in achieving stated project targets;
- (2) the contribution to achievement of sector and goal plans;
- (3) anticipated results compared to costs, i.e., efficiency in resource utilization;
- (4) the continued relevance, importance and significance of the project to country development and/or the furtherance of U.S. objectives.

Include in the above outline, as necessary and appropriate, significant remedial actions undertaken or planned. The narrative can best be done after the rest of PART I is completed. It should integrate the partial analyses in I-B and I-C into an overall balanced appraisal of the project's impact. The narrative can refer to other sections of the PAR which are pertinent. If the evaluation in the previous PAR has not significantly changed, or if the project is too new to have achieved significant results, this Part should so state.

008 NARRATIVE FOR PART I-A (Continue on form AID 1020-25 I as necessary):

HISTORY OF ACTIVITY

In June 1966, USAID and RGA signed a project agreement for USAID assistance to the accelerated wheat program. This year the research program has defined wheat varieties determined to be suitable for multiplication and (Continued on Page 1a)

MISSION DIRECTOR APPROVAL →	SIGNATURE <i>[Signature]</i>	DATE <i>[Date]</i>
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PAR CONTINUATION SHEET

This sheet is to be used for any Narrative Sections for which sufficient space has not been provided on the form. Identify each narrative by its Part and Section Designation.

008 - Narrative for Part I-A - Cont'd from Page 1

release. Cultural practices have been researched to complement the released wheat varieties in order to obtain increased production. This information has been published in Afghan technical bulletins and demonstrated also through the Ministry of Agriculture and Irrigation (MAI) Extension Service for producers. Research for adaptive varieties of wheat is a continuing activity.

OVERALL PERFORMANCE AND EFFECTIVENESS

The overall performance and effectiveness toward attaining the goals of this project have been satisfactory as well as have the quantity and quality of the Ministry of Agriculture and Irrigation (MAI) technicians' efforts. It is felt that if this project continues to progress at its current pace towards the firm establishment of effective research in wheat, there is ample evidence to anticipate continuance of the work after the U.S. discontinues assistance.

CONTRIBUTION TO ACHIEVEMENT OF SECTOR OF GOVERNMENT PLANS

The activities of the project have contributed greatly toward achieving sector goals. The research results attained from the wheat breeding work, uniform wheat variety trials, fertilizer rate trials and cultural practices trials have determined several outstanding wheat varieties which now account for many high-yielding varieties presently grown by farmers.

It is currently estimated that some eight percent of the irrigated wheat land was planted to the new high-yielding varieties during 1969.

The training of MAI technicians and their increased confidence in their own competence is resulting in improved research both positive and satisfactory. The return of participants, seven this year, from the U.S. and Third Countries, has strengthened the research staff and is enabling the execution of more research trials on regional experiment stations. Eight participants have been sent for U.S. and Third Country training this year.

ANTICIPATED RESULTS COMPARED TO COSTS

The anticipated result from concentrating all efforts on assisting Afghanistan to become self-sufficient in wheat production is culminating at a reasonable pace and is commensurate with efficient utilization of manpower and budget resources available to make the effort successful. The research work has produced a cadre of MAI research technicians, a central research station complemented by five regional experiment stations which are nearing an adequate staff level and equipped with modern farm machinery. Furthermore, the stations have made available technical knowledge and wheat varieties which are providing farmers with an opportunity to raise their standards of living.

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~~008 - Narrative for Part I-A - Cont'd from Page 1a~~

While it is difficult to relate total project costs to anticipated results from experimental work, there can be little doubt that the resultant increase in national wheat production is in line with project expenditures. The transition of research efforts into rice, corn, oil seed crops, is in an embryonic stage at this time. These crops, however, are grown in clearly defined micro-climate areas of the country and it will be necessary to accelerate the research program for these crops in order to accommodate a broader agricultural base of the economy.

IMPORTANCE OF ACTIVITY

The research project has firmed up a sound experimental base and is providing wheat varieties that contribute greatly to the increase in national wheat production. The technical knowledge gained from trials on the research stations has been extended to wheat producers, thus enabling them to utilize improved technology in growing wheat. Approximately 12 percent of the total 1969-1970 wheat crop will be from improved varieties planted in late CY 1969. Also, the training of MAI research staff scientists, capable of planning, developing, executing and evaluating research trials has contributed greatly to the development of personnel. This development of a research infra-structure will enable the MAI to initiate future experimental research trials with greater expertise and acceleration when undertaking broader research work in other cereal, row and oil seed crops. Research in secondary crops will contribute to the broadening of the country's agricultural production base and will provide increased agriculture income thereby generating capital which can be utilized to finance the development of an agricultural industry.

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1b

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PART I-B - PROJECT EFFECTIVENESS

009

I-B-1 - OUTPUT REPORT AND FORECAST - (See detailed instructions)

1. CODE NO. AID/W USE ONLY	2. This section is designed to record progress toward the achievement of each project output target which was scheduled in the PIP, Part II. Where progress toward a target is significantly greater or less than scheduled, describe reason(s) beneath the target.	ACTUAL AND PLANNED OUTPUTS (ALL DATA CUMULATIVE)				6. PROJECTED TOTAL FOR PROJECT LIFE
		3 ACTUAL CUM. TO DATE 2/28/70	4 AS OF PRIOR JUNE 30 1969		5 PLANNED BY NEXT JUNE 30 1970	
			a PLANNED	b ACTUAL		
	1. Research priorities established for essential food crops and industrial crops with experimental trials initiated. (100 percent accomplishment is based on priorities and initiation of research addressing itself to feasibility of production and related problems)					
	a. Wheat	75	60	70	75	100
	b. Rice	15	10	10	20	100
	c. Corn	20	10	12	20	100
	d. Oil Seed Crops	10	0	0	5	85
	e. Horticulture and Vegetables The basic varietal research in vegetables has been carried out at Jalalabad in FY 1967, 1968 and 1969, however the results attained during this period awaits adaptive trials at other experiment stations.	25	15	15	25	85
	f. Pulses	2	0	0	5	85
	g. Other Crops (Sorghum and Legumes)	5	2	2	8	70
	2. Research coordination and evaluation by a central research council.	15	5	5	15	100
	3. Long-term research (by crop) projections	25	20	20	20	100
	4. Professional agronomic research staff capable in numbers and quality to carry on a viable and country-oriented research program. (Bachelor of Science Degree or higher).	22	20	20	24	hh
				MAI PERSONNEL		

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		3 ACTUAL CUM. TO DATE 2/28/70	4 AS OF PRIOR JUNE 30 1969 a PLANNED b ACTUAL		5 PLANNED BY NEXT JUNE 30 1970	6. PROJECTED TOTAL FOR PROJECT LIFE
			MAI PERSONNEL			
	5. Sub-professional research workers trained (participant in-service and on-the-job training).	48	40	38	60	160
	6. Central Research Station and five Regional Agronomic Experimental Stations adequately operational, staff and facilities.		PERCENT			
	Darul Amon (Central Research Station)	35	30	30	45	100
	Herat - Regional Station	22	30	20	45	100
	Administrative problems and interpretations of MAI Communications have somewhat delayed scheduled development. Also the lack of funds for procuring tractor fuels, slowness in land leveling, road construction and retardation of building construction have been inhibiting factors.					
	Mazar-i-Sharif - Regional Station	30	20	20	40	100
	Jalalabad - Regional Station	65	50	50	70	100
	Kunduz - Regional Station	65	50	40	70	100
	Kandahar - Regional Station	90	80	80	100	100
			SUB-STATIONS			
	7. Seven sub-stations complementing the six major research stations: Ghazni, Bamyan, Logar, Dadi, Takhar, Maimana, Baghlan.	4	3	3	4	7

PART I-B - PROJECT EFFECTIVENESS

009 I-B-1 - OUTPUT REPORT AND FORECAST - (See detailed instructions)

1. CODE NO. AID/W USE ONLY	2. This section is designed to record progress toward the achievement of each project output target which was scheduled in the PIP, Part II. Where progress toward a target is significantly greater or less than scheduled, describe reason(s) beneath the target.	ACTUAL AND PLANNED OUTPUTS (ALL DATA CUMULATIVE)				
		3 ACTUAL CUM. TO DATE 2/28/70	4. AS OF PRIOR JUNE 30		5 PLANNED BY NEXT JUNE 30 1970	6. PROJECTED TOTAL FOR PROJECT LIFE
			a PLANNED	b. ACTUAL		
	<p>8. Crop varieties evaluated and maintained with seed released for multiplication and distributed in specific micro-climates.</p> <p>9. National Agronomic Research Center - Operational</p> <p>10. Establish a wheat germ plasm bank. (Equipment has arrived ahead of schedule)</p>	Wheat identified	Other	crops to be identified by research		
			NUMBER			
		0	0	0	0	1
			PERCENT			
		50	0	0	20	100

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PART I-B - Continued

010 B.2 - OVERALL ACHIEVEMENT OF PROJECT TARGETS

Place an "X" within the bracket on the following seven-point scale that represents your judgment of the overall progress towards project targets:



PART I-C - PROJECT SIGNIFICANCE

011 C.1 - RELATION TO SECTOR AND PROGRAM GOALS (See detailed instructions M.O. 1026.1)

This section is designed to indicate the potential and actual impact of the project on relevant sector and program goals. List the goals in col. b and rate potential and actual project impact in cols. c and d.

a. CODE NO. (AID/W USE ONLY)	SCALE FOR COLUMN c: 3= Very Important; 2= Important; 1= Secondary Importance SCALE FOR COLUMN d: 3= Superior/Outstanding; 2= Adequate/Satisfactory/Good; 1= Unsatisfactory/Marginal	c. POTENTIAL IMPACT ON EACH GOAL IF PROJECT ACHIEVES TARGETS	d. ACTUAL IMPACT ON GOAL TO DATE RELATIVE TO PROGRESS EXPECTED AT THIS STAGE
	b. SECTOR AND PROGRAM GOALS (LIST ONLY THOSE ON WHICH THE PROJECT HAS A SIGNIFICANT EFFECT)		
	(1) To create the technical, institutional and policy framework capable of setting in motion a sustained increase in wheat production and with self-sufficiency to be achieved by 1972 and permitting increased diversification and more broadly based agriculture growth in the subsequent decade.	3	2
	(2) To facilitate and encourage the mobilization of public and private development resources directed toward the achievement of an increasing rate of economic growth in the 70's	2	2
	(3)		
	(4)		

For goals where column c. is rated 3 or 2 and column d. is rated 1, explain in the space for narrative. The narrative should also indicate the extent to which the potential impacts rated 3 or 2 in column c. are dependent on factors external to the achievement of the project targets, i.e., is there a substantial risk of the anticipated impact being forestalled by factors not involved in the achievement of project targets. If possible and relevant, it also would be useful to mention in the narrative your reading of any current indicators that longer-term purposes, beyond scheduled project targets, are likely or unlikely to be achieved. Each explanatory note must be identified by the number of the entry (col. b) to which it pertains.

012 NARRATIVE FOR PART I-C.1 (Continue on form AID 1020-25 1):

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PART I-C - Continued

C.2 - GENERAL QUESTIONS

These questions concern developments since the prior PAR. For each question place "Y" for Yes, "N" for No, or "NA" for Not Applicable in the right hand column. For each question where "Y" is entered, explain briefly in the space below the table.	MARK IN THIS COL.
013 Have there been any significant, unusual or unanticipated results not covered so far in this PAR?	N
014 Have means, conditions or activities other than project measures had a substantial effect on project output or accomplishments?	N
015 Have any problems arisen as the result of advice or action or major contributions to the project by another donor?	N
016 If the answer to 014 or 015 is yes, or for any other reason, is the project now less necessary, unnecessary or subject to modification or earlier termination?	N
017 Have any important lessons, positive or negative, emerged which might have broad applicability?	Y
018 Has this project revealed any requirement for research or new technical aids on which AID/W should take the initiative?	N
019 Do any aspects of the project lend themselves to publicity in newspapers, magazines, television or films in the United States?	Y
020 Has there been a lack of effective cooperating country media coverage? (Make sure AID/W has copies of existing coverage.)	N

021 NARRATIVE FOR PART I-C.2 Identify each explanatory note by the number of the entry to which it pertains. (Continue on form AID 1020-25 I as necessary):

- 017 - The sharp focusing of manpower, physical and budgetary resources on a single crop has permitted the MAI to attain a high degree of efficiency in conducting wheat research.
- 019 - Agronomic research data on wheat and other cereals as to varietal adaptation and rust tolerances presently are being publicized through professional journals.

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PART II - IMPLEMENTATION REPORT

II-A - STATUS OF SCHEDULE

022 A-1 - INDIVIDUAL ACTIONS (See detailed Instructions M.O. 1026.1). This is a listing of major actions or steps which were scheduled for physical start or continuing implementation in the reporting period as reflected in the Project Implementation Plan, Part I.

PIP ITEM NO.	MAJOR ACTIONS OR STEPS; CAUSES AND RESULTS OF DELAYS; REMEDIAL STEPS	(b) STATUS - PLACE AN "X" IN ONE COLUMN		
		(1) BEHIND SCHEDULE	(2) ON SCHEDULE	(3) AHEAD OF SCHEDULE
	<u>I. GENERAL RESEARCH ADMINISTRATION AND PLANNING</u>			
1.	Develop plans for an agronomic research program commensurate with country development requirements		X	
2.	Develop plans for long-term personnel training and staffing requirements commensurate with research program		X	
3.	Prepare and plan U.S. Commodity inputs		X	
4.	Prepare procurement program for research program supplies and materials (RGA Procurement - USAID advisory assistance only)		X	
5.	Project plans for budgetary requirements prepared; yearly revisions scheduled three months prior to budget submission		X	
6.	Investigate and research crops which are of secondary importance in country		X	
	<u>II. PHYSICAL FACILITY IMPROVEMENT</u>			
7.	Develop research utilization plans for the National Research Station (Darul Amon) and the five Regional Experiment Stations		X	
8.	Improve physical facilities laboratory equipment, land leveling, irrigation canals, buildings and fences:			
	a. Darul Amon		X	
	b. Jalalabad		X	
	c. Kunduz		X	
	d. Mazar-i-Sharif		X	
	e. Herat (See page 2-a, item 6)	X		
	f. Kandahar		X	

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PART II - IMPLEMENTATION REPORT

II-A - STATUS OF SCHEDULE

022 A-1 - INDIVIDUAL ACTIONS (See detailed instructions M.O. 1026.1). This is a listing of major actions or steps which were scheduled for physical start or continuing implementation in the reporting period as reflected in the Project Implementation Plan, Part I.

(a) PIP ITEM NO.	MAJOR ACTIONS OR STEPS; CAUSES AND RESULTS OF DELAYS; REMEDIAL STEPS	(b) STATUS - PLACE AN "X" IN ONE COLUMN		
		(1) BEHIND SCHEDULE	(2) ON SCHEDULE	(3) AHEAD OF SCHEDULE
9.	Determine farm machinery requirements procure and install at Research Stations		X	
	<u>III. RESEARCH PROGRAM IMPLEMENTATION</u>			
10.	Consultant services to evaluate and determine adaptability of oil crops and other industrial oil crops in country (six months)		X	
11.	Consultant services to determine feasibility of intensifying horticulture research in country (six months)		X	
12.	Consultant services of Regional Pulse Improvement Project (USDA/RPIP) secured for three weeks to provide direction on establishing research project on pulses		X	
13.	Develop and implement exploratory research trials on secondary crops to assess problem areas, crop potential and resource allocation:			
	*a. Oil Seed Crops		X	
	*b. Horticulture Crops		X	
	*c. Pulses		X	
	*d. Other Crops (Sorghum and Legumes)		X	
14.	Investigate and research varietal difference and adaptation for maximum production throughout country:			
	a. Wheat		X	
	b. Rice		X	
	c. Corn		X	
15.	Investigate and research cultural practices necessary to support improved varieties of wheat, corn and rice		X	
	*Intensity of research depends upon availability of funds (USAID/RGA)			

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PART II - IMPLEMENTATION REPORT

II-A - STATUS OF SCHEDULE

022 A-1 - INDIVIDUAL ACTIONS (See detailed instructions M.O. 1026.1). This is a listing of major actions or steps which were scheduled for physical start or continuing implementation in the reporting period as reflected in the Project Implementation Plan, Part I.

(a) PIP ITEM NO.	MAJOR ACTIONS OR STEPS; CAUSES AND RESULTS OF DELAYS; REMEDIAL STEPS	(b) STATUS - PLACE AN "X" IN ONE COLUMN		
		(1) BEHIND SCHEDULE	(2) ON SCHEDULE	(3) AHEAD OF SCHEDULE
16.	Determine water holding capacity of specific soils type and correlate with plant requirements		X	
17.	Investigate and research chemical weed control in wheat, rice and corn		X	
18.	Investigate and research relationship of soil management to cropping patterns and rotations		X	
19.	Determine and research feasibility of production for cereals, oil seed, horticulture and other crops; particular attention to comparative advantage		X	
20.	Short-Term evaluation team of technical personnel to review technical aspects of the research program to determine effectiveness and duration of activities as well as recommendations for future courses of action		X	
21.	Agronomy Advisor (Coordinator)		X	
22.	Agronomy Research Advisor (Cultural Practices)		X	
23.	Agronomy Research Advisor (Breeding)		X	
24.	Agronomy Advisor (Sub-Stations)		X	
25.	Agronomy Advisor - Herat		X	
26.	Agronomy Advisor - Mazar-i-Sherif		X	
27.	Agronomy Advisor - Jalalabad		X	
28.	Agronomy Advisor - Kunduz		X	
	<u>IV. STAFF TRAINING AND DEVELOPMENT</u>			
29.	Develop U.S. and Third Country participant training opportunities for MAI research staff. (Middle level training for management technicians has been more successful than anticipated)			X

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PART II - IMPLEMENTATION REPORT

II-A - STATUS OF SCHEDULE

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(a) PIP ITEM NO.	MAJOR ACTIONS OR STEPS; CAUSES AND RESULTS OF DELAYS; REMEDIAL STEPS	(b) STATUS - PLACE AN "X" IN ONE COLUMN		
		(1) BEHIND SCHEDULE	(2) ON SCHEDULE	(3) AHEAD OF SCHEDULE
30.	Develop and execute in-country workshop in research management, planning techniques and statistical evaluation of research data (one month)		X	
	V. <u>COORDINATION</u>			
31.	Organize research council to coordinate research efforts		X	

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PART II - Continued

023

II-A.2 - OVERALL TIMELINESS

In general, project implementation is (place an "X" in one block):

BLOCK (c): If marked, place an "X" in any of the blocks one thru eight that apply. This is limited to key aspects of implementation, e.g., timely delivery of commodities, return of participants to assume their project responsibilities, cooperating country funding, arrival of technicians.

(a) On schedule	X
(b) Ahead of schedule	
(c) Behind schedule	
(1) AID/W Program Approval	
(2) Implementing Agency (Contractor/Participating Agency/Voluntary Agency)	
(3) Technicians	
(4) Participants	
(5) Commodities (non-FFF)	
(6) Cooperating Country	
(7) Commodities (FFF)	
(8) Other (specify):	

II-B - RESOURCE INPUTS

This section appraises the effectiveness of U.S. resource inputs. There follow illustrative lists of factors, grouped under Implementing Agency, Participant Training and Commodities, that might influence the effectiveness of each of these types of project resources. In the blocks after only those factors which significantly affect project accomplishments, write the letter P if effect is positive or satisfactory, or the letter N if effect is negative or less than satisfactory.

1. FACTORS-IMPLEMENTING AGENCY (Contract/Participating Agency/Voluntary Agency)

024 IF NO IMPLEMENTING AGENCY IN THIS PROJECT. PLACE AN "X" IN THIS BLOCK:	X	032 Quality, comprehensiveness and candor of required reports	
025 Adequacy of technical knowledge		033 Promptness of required reports	
026 Understanding of project purposes		034 Adherence to work schedule	
027 Project planning and management		035 Working relations with Americans	
028 Ability to adapt technical knowledge to local situation		036 Working relations with cooperating country nationals	
029 Effective use of participant training element		037 Adaptation to local working and living environment	
030 Ability to train and utilize local staff		038 Home office backstopping and substantive interest	
031 Adherence to AID administrative and other requirements		039 Timely recruiting of qualified technicians	
		040 Other (describe):	

2. FACTORS-PARTICIPANT TRAINING

041 IF NO PARTICIPANT ELEMENT IN PROJECT. PLACE AN "X" IN THIS BLOCK:		TRAINING UTILIZATION AND FOLLOW UP	P
PREDEPARTURE		052 Appropriateness of original selection	P
042 English language ability		053 Relevance of training for present project purposes	P
043 Availability of host country funding		054 Appropriateness of post-training placement	P
044 Host country operational considerations (e.g., selection procedures)	P	055 Utility of training regardless of changes in project	
045 Technical/professional qualifications	N	056 Ability to get meritorious ideas accepted by supervisors	P
046 Quality of technical orientation	P	057 Adequacy of performance	P
047 Quality of general orientation		058 Continuance on project	P
048 Participants' collaboration in planning content of program	P	059 Availability of necessary facilities and equipment	P
049 Collaboration by participants' supervisors in planning training	P	060 Mission or contractor follow-up activity	P
050 Participants' availability for training	P	061 Other (describe):	
051 Other (describe):			

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PART II-B - Continued

3. FACTORS-COMMODITIES

PLACE AN "X" IN APPROPRIATE BLOCK:	062 FFF	063 NON-FFF	X	064 NO COMMODITY ELEMENT		072 Control measures against damage and deterioration in shipment.	P
065 Timeliness of AID/W program approval (i.e., PIO/C, Transfer Authorization).					P	073 Control measures against deterioration in storage.	P
066 Quality of commodities, adherence to specifications, marking.					P	074 Readiness and availability of facilities.	N
067 Timeliness in procurement or reconditioning.					P	075 Appropriateness of use of commodities.	P
068 Timeliness of shipment to port of entry.					P	076 Maintenance and spares support.	N
069 Adequacy of port and inland storage facilities.						077 Adequacy of property records, accounting and controls.	P
070 Timeliness of shipment from port to site.					P	078 Other (Describe):	
071 Control measures against loss and theft.					P		

Indicate in a concise narrative statement (under the heading a. Overall Implementation Performance, below) your summary appraisal of the status of project implementation, covering both significant achievements and problem areas. This should include any comments about the adequacy of provision of direct hire technicians as well as an overall appraisal of the comments provided under the three headings (b, c & d) which follow. For projects which include a dollar input for generation of local currency to meet local cost requirements, indicate the status of that input (see Detailed Instructions).

Discuss separately (under separate headings b, c & d) the status of Implementing Agency Actions, Participants and Commodities. Where above listed factors are causing significant problems (marked N), describe briefly in the appropriate narrative section: (1) the cause and source of the problem, (2) the consequences of not correcting it, and (3) what corrective action has been taken, called for, or planned by the Mission. Identify each factor discussed by its number.

079 NARRATIVE FOR PART II-B: (After narrative section a. Overall Implementation Performance, below, follow, on form AID 1020-251 as needed, with the following narrative section headings: b. Implementing Agency, c. Participants, d. Commodities. List all narrative section headings in order. For any headings which are not applicable, mark them as such and follow immediately below with the next narrative section heading.)

a. Overall Implementation Performance.

The project has continued to progress at a satisfactory rate with the previously reported shortage of technically qualified MAI staff technicians being steadily corrected by the return of technically trained participants this past year. Wheat production has continued to increase with over eight percent of the total wheat acreage being planted to the new high-yielding varieties. Self-sufficiency in wheat production by 1972 still appears feasible. Wheat prices have remained steady throughout the past year. Research results in determining and evaluating wheat varieties and improved cultural practices have remained satisfactory. Efforts to broaden the base of the agricultural industry have been undertaken through research projects dealing with the following crops: corn, rice and sorghum.

The wheat research program has achieved significant results in generating technical production information which is being provided to producers through the extension education program. Research experimental trials have been successfully conducted in various fields of crop improvement, such as uniform varietal evaluation trials, rust nursery trials, sorghum varietal trials, fertilizer rate trials, fall and spring planting dates for wheat and dryland wheat cultural trials. The execution of the above experimental crop improvement trials have permitted MAI research technicians to become quite efficient in managing, designing, and evaluating research data. Physical facilities and required equipment which are needed to conduct research projects at experimental stations located throughout the country have been improved and are nearing a developmental state whereby MAI research technicians will be able to carry on most of the essential wheat research.

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306-11-190-002

RESEARCH

PAR CONTINUATION SHEET

This sheet is to be used for any Narrative Sections for which sufficient space has not been provided on the form. Identify each narrative by its Part and Section Designation.

079 - Narrative for Part II-B

a. Overall Implementation Performance - Continued from Page 7

In broadening the agricultural base of Afghanistan, initiation of an experimental research program dealing with oil seed and horticulture crops will be accelerated in the immediate future. Thus, it is essential that attention be focused sharply on the contracting of a high-level consultant team that is able to evaluate, determine and develop sound working basis for program formulation and action regarding an oil seed and horticulture program. The direct hire technicians required to execute the oil seed development work plan and initiate essential experimental research trials will need to be on board during the early part of FY 1971.

b. Implementing Agency - Not Applicable

c. Participants - 042 - The English language proficiency requirement for participants entering academic training programs presents a problem that is only solved through extended periods of language training.

045 - This is a relative problem based on quality of the formal technical education and professional status of the agricultural industry.

d. Commodities - 074 - The availability of machine sheds at the regional level is limited at the present time, however, plans for constructing adequate facilities are being implemented by the MAI. The rate at which construction of these facilities is being completed can be considered less than satisfactory.

076 - This factor is considered less than satisfactory, however, it is expected with new procedures being developed for increasing maintenance capabilities and foreign exchange being made available for spare parts, this situation will be corrected shortly.

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PART III - ROLE OF THE COOPERATING COUNTRY

The following list of illustrative items are to be considered by the evaluator. In the block after only those items which significantly affect project effectiveness, write the letter P if the effect of the item is positive or satisfactory, or the letter N if the effect of the item is negative or less than satisfactory.

SPECIFIC OPERATIONAL FACTORS:	
080 Coordination and cooperation within and between ministries.	
081 Coordination and cooperation of LDC gov't. with public and private institutions and private enterprise.	P
082 Availability of reliable data for project planning, control and evaluation.	N
083 Competence and/or continuity in executive leadership of project.	P
084 Host country project funding.	P
085 Legislative changes relevant to project purposes.	
086 Existence and adequacy of a project-related LDC organization.	P
087 Resolution of procedural and bureaucratic problems.	P
088 Availability of LDC physical resource inputs and/or supporting services and facilities.	P
089 Maintenance of facilities and equipment.	N
090 Resolution of tribal, class or caste problems.	
091 Receptivity to change and innovation.	P
092 Political conditions specific to project.	P
093 Capacity to transform ideas into actions, i.e., ability to implement project plans.	P
094 Intent and/or capacity to sustain and expand the impact of the project after U.S. inputs are terminated.	P
095 Extent of LDC efforts to widen the dissemination of project benefits and services.	P
096 Utilization of trained manpower (e.g., participants, counterpart technicians) in project operations.	P
097 Enforcement of relevant procedures (e.g., newly established tax collection and audit system).	
098 Other:	
HOST COUNTRY COUNTERPART TECHNICIAN FACTORS:	
099 Level of technical education and/or technical experience.	P
100 Planning and management skills.	N
101 Amount of technician man years available.	P
102 Continuity of staff.	P
103 Willingness to work in rural areas.	P
104 Pay and allowances.	N
105 Other:	

In the space below for narrative provide a succinct discussion and overall appraisal of the quality of country performance related to this project, particularly over the past year. Consider important trends and prospects. See Detailed Instructions for an illustrative list of considerations to be covered.

For only those items marked N include brief statements covering the nature of the problem, its impact on the achievement of project targets (i.e., its importance) and the nature and cost of corrective action taken or planned. Identify each explanatory note.

106 NARRATIVE FOR PART III. (Continue on form AID 1040-25 1):

The project has continued to progress on schedule with significant success in consolidating the varied basic experimental trials into a uniform and forward-looking wheat research program. The MAI has assigned its top officers to plan, develop and execute the experimental research program. The research efforts and techniques in wheat experimentation are now well established at the national and regional experiment stations; furthermore, the experimental data obtained has gained considerable respectability with other international foundations interested in wheat research. With a few more years of technical assistance in training and developing the confidence of MAI technicians, the capacity to sustain research work appears at this time to be assured.

Since the experimental work on wheat presently is well distributed among the twelve experiment stations, the MAI is now developing plans to expand experimental work into other areas such as rice, corn, legumes, oil seed, and horticulture crops. This plan to widen research efforts to other agronomic crops by the MAI portrays the prospective actions the country is undertaking to strengthen their role and

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106 NARRATIVE FOR PART III - Continued from Page 8

demonstrates effective results of the present project.

The MAI during this past year has maintained a steady composure regarding project key personnel, policies, and program. With operational effectiveness increasing constantly, there appears at this time to be no need to change the scope or design of the project.

082 - Reliable, firm and substantial data available for project planning and control is practically nil. However, this situation is improving every year as more data becomes available from experimental trials.

089 - Adequate and timely maintenance of farm equipment remains somewhat of a problem, due primarily to insufficiently trained mechanics and an antiquated spare parts issuance and procurement systems. Corrective action is being taken by the training of farm machinery mechanics at the Darul Amon training facilities (under development service sub-project).

100 - Planning and management skills to execute project activities on a proper and timely basis are available, however, administrative procedures, channels, and lines of communications will require constant review in order to keep abreast of project development.

104 - This judgment is a relative matter, a more adequate salary level would no doubt provide a greater incentive for productivity.

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PART IV - PROGRAMMING IMPLICATIONS

IV-A - EFFECT ON PURPOSE AND DESIGN

Indicate in a brief narrative whether the Mission experience to date with this project and/or changing country circumstances call for some adjustment in project purposes or design, and why, and the approximate cost implications. Cover any of the following considerations or others that may be relevant. (See Detailed Instructions for additional illustrative considerations.) Relevant experience or country situations that were described earlier can simply be referenced. The spelling out of specific changes should be left to the appropriate programming documents, but a brief indication of the type of change contemplated should be given here to clarify the need for change.

For example, changes might be indicated if they would:

1. better achieve program/project purposes;
2. address more critical or higher priority purposes within a goal plan;
3. produce desired results at less cost;
4. give more assurance of lasting institutional development upon U.S. withdrawal.

107 NARRATIVE FOR PART IV-A (Continue on form AID 1020-25 1):

This project is designed to develop an adequate wheat research capability within the MAI technical research staff and proper utilization of the physical research facilities. With the country approaching the goal of self-sufficiency in wheat and the urgent need to diversify crop production, it will be necessary to broaden the scope of the research project. Consequently, the project will embark upon a more multiple effort in crop research which includes experimentation in other cereal crops, legumes, oil seed and horticultural crops. Through the development of research in these diversified crops, it will be possible for the country to increase production of crops that either generate foreign exchange or create savings which can be utilized to provide capital for developing agricultural industry. The country has the potential for expanding production of diversified crops but requires basic and adaptive research to provide factual knowledge as to proper means and methods of attaining the desired goals. In order to aid the country in achieving desired results, it is necessary that, a comprehensive feasibility study and work plan be completed and the providing of adequate consultant services and direct hire staff to develop and execute project plans.

IV-B - PROPOSED ACTION

108 This project should be (Place an "X" in appropriate block(s)):

1. Continued as presently scheduled in PIP.	
2. Continued with minor changes in the PIP, made at Mission level (not requiring submission of an amended PIP to AID/W).	X
3. Continued with significant changes in the PIP (but not sufficient to require a revised PROP). A formally revised PIP will follow.	
4. Extended beyond its present schedule to (Date): Mo. ___ Day ___ Yr. ___. Explain in narrative, PROP will follow.	
5. Substantively revised. PROP will follow.	
6. Evaluated in depth to determine its effectiveness, future scope, and duration.	
7. Discontinued earlier than presently scheduled. Date recommended for termination: Mo. ___ Day ___ Yr. ___. Explain in narrative.	
8. Other. Explain in narrative.	

109 NARRATIVE FOR PART IV-B:

The present research program in wheat should be continued through FY 1972, with emphasis on experimentation in other crops beginning in FY 1971 which will broaden the agricultural base with definite work plans being reflected in later programming documents.

As cited in Part I of the Project Implementation Plan - Description of Major Actions or Steps, and Item 20 Section 022 of this Project Appraisal Report, it is planned that an evaluation team of technical consultants be contracted during FY 1971, 1973 and 1975 to review technical aspects of the research program with the objective being to determine the effectiveness and duration of activities. It should also provide recommendations for future courses of action. (Continued)

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109 NARRATIVE FOR PART IV-B - Continued from Page 9

The use of short-term consultants is desirable in the face of diminishing permanent advisory staff available for research planning and evaluation purposes.

It is proposed that the research program relative to wheat experimentation be broadened to include trials in on-farm water management. Information in the field of irrigation practices will deal with water rates, time of applications, soil water retention capabilities, crop responses, infiltration rates and determinations as to soil classifications. This work in on-farm water management is necessary to support joint efforts underway to increasing wheat production and will be required in the field of secondary crop production as research emphasis are shifted toward this area.

Also, it is proposed that greater endeavors be directed towards the development of collaboration between scientists of the Faculty of Agriculture, Kabul University, the Helmand Valley and the Ministry of Agriculture and Irrigation on present research programs and future problems to be studied. This coordination and cooperation will be pursued through jointly executed research projects and possibly by developing specific professional areas of interest to both groups of scientists.

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