

PROJECT APPRAISAL REPORT (PAR)

5120247 (14)

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1. PROJECT NO. 512-15-130-247.5	2. PAR FOR PERIOD: 5/73 TO termin.	3. COUNTRY Brazil	4. PAR SERIAL NO. 74-10
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Seed Industry Development

6. PROJECT DURATION: Began FY 63 Ends FY 74	7. DATE LATEST PROP 7/70	8. DATE LATEST PIP -	9. DATE PRIOR PAR 7/73
10. U.S. FUNDING	a. Cumulative Obligation Thru Prior FY: \$ 2,276,000	b. Current FY Estimated Budget: \$ -	c. Estimated Budget to completion After Current FY: \$ -

11. KEY ACTION AGENTS (Contractor, Participating Agency or Voluntary Agency)

a. NAME Mississippi State University	b. CONTRACT, PASA OR VOL. AG. NO. AID/1a - 165
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I. NEW ACTIONS PROPOSED AND REQUESTED AS A RESULT OF THIS EVALUATION

A. ACTION (X)			B. LIST OF ACTIONS	C. PROPOSED ACTION COMPLETION DATE
USAID	AID/W	HOST		
			<p style="text-align: center;"><u>Overview</u></p> <ol style="list-style-type: none"> Basic capital and human infrastructure resulting from this project's inputs provided the basis for Brazil's negotiation of a \$10 million seed development loan with IDB. Project evaluations over the last three to four years resulted in modifications of project inputs as well as targets which have generally brought about a more successful conclusion of this project than had been earlier anticipated. GOB must focus its future attentions on improving the organization of its seed development infrastructure if its long range goals in this area are to be attained. <p>Participants: Min.Ag.:Meirelles;AGIPLAN:Vechi; DISEM:Memoria,Botelho,Nascimento; MSU:Gregg,Lingerfelt; USAID: Cohen,Chable,Albuquerque.</p>	

D. REPLANNING REQUIRES						E. DATE OF MISSION REVIEW	
REVISED OR NEW	<input type="checkbox"/> PROP	<input type="checkbox"/> PIP	<input type="checkbox"/> PRO AG	<input type="checkbox"/> PIO/T	<input type="checkbox"/> PIO/C	<input type="checkbox"/> PIO/P	April 9, 1974
PROJECT MANAGER: TYPED NAME, SIGNED INITIALS AND DATE				MISSION DIRECTOR: TYPED NAME, SIGNED INITIALS AND DATE			
Chable: ARDO: ACE 16 Apr '74				Howard Lusk: AD/TO: H L K			

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II. PERFORMANCE OF KEY INPUTS AND ACTION AGENTS

A. INPUT OR ACTION AGENT CONTRACTOR, PARTICIPATING AGENCY OR VOLUNTARY AGENCY	B. PERFORMANCE AGAINST PLAN							C. IMPORTANCE FOR ACHIEVING PROJECT PURPOSE (X)				
	UNSATISFACTORY		SATISFACTORY			OUT-STANDING		LOW	MEDIUM		HIGH	
	1	2	3	4	5	6	7	1	2	3	4	5
1. <u>Mississippi State University</u>												
2.												
3.												

Comment on key factors determining rating

Present MSU two-man team has demonstrated an understanding of project goals and purposes superior to that of previous MSU teams and home campus. Language proficiency of both technicians has been one of the important factors, previously absent, which has allowed full level of communication between the technical assistance input and host country counterpart. Periodic documents and reports of observation and recommendations have been presented in a highly useful and constructive manner.

* - No rating provided since exercise was geared to overall performance during life of project rather than to performance over the last year.

4. PARTICIPANT TRAINING												
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Comment on key factors determining rating

Previously existing critical bottleneck in the MinAg seed program had been the lack of a nucleus of personnel trained in seed technology. The participant training element of this project has all but eliminated this obstacle. In addition project efforts aimed at developing both a long and short-term seed technology training capacity within Brazil has been of significant success.

5. COMMODITIES												
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Comment on key factors determining rating

In the last several years of the project US commodity input has been minimal. Commodities imported under this project were utilized to demonstrate methods of seed processing and exercised a strong influence in the development of the Brazilian seed equipment industry.

6. COOPERATING COUNTRY	a. PERSONNEL											
	b. OTHER											

Comment on key factors determining rating

As noted above in section 4 there now exists within the MinAg larger numbers of individuals sufficiently knowledgeable in the area of seed technology to be able to adequately manage the kind of seed program long desired by the GOB. However as is currently recognized by the newly installed ministerial hierarchy, the national seed program to be fully successful must have a stronger organizational base. Relationships between the MinAg and seed equipment and production industries have grown progressively stronger. There exists an awareness greater than ever before of seed-related problems of regions other than the South of Brazil. It now remains for this awareness to be translated into effective problem solving programs.

7. OTHER DONORS												
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(See Next Page for Comments on Other Donors)

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II. 7. Continued: Comment on key factors determining rating of Other Donors

\$10 million IDB loan has just entered into the implementation phase and will basically concentrate, with the assistance of MSU, on the further development of general seed industry and training infrastructure.

III. KEY OUTPUT INDICATORS AND TARGETS

A. QUANTITATIVE INDICATORS FOR MAJOR OUTPUTS		TARGETS (Percentage/Rate/Amount)					END OF PROJECT
		CUMULATIVE PRIOR FY	CURRENT FY		FY ____	FY ____	
			TO DATE	TO END			
Academic Training	PLANNED	24					24
	ACTUAL PERFORMANCE	13	14				
	REPLANNED						27
Incountry Training	PLANNED	2115					2115
	ACTUAL PERFORMANCE	2400	790				
	REPLANNED						3190
Short-term study tours	PLANNED	60					60
	ACTUAL PERFORMANCE	59	12				
	REPLANNED						71
Laboratories, processing plants, storage units	PLANNED	64					64
	ACTUAL PERFORMANCE	64	10				
	REPLANNED						74
B. QUALITATIVE INDICATORS FOR MAJOR OUTPUTS		COMMENT:					
1. Seed laws effectively implemented.		Adequate seed legislation has existed for some time, the level of its implementation still may be considered far less than desirable.					
2. Seed extension programs implemented.		COMMENT: Being developed, specialist in seed extension visited as consultant and worked with ACAR agencies on guidelines.					
3. Establishment of in-country training capacity.		COMMENT: Further development of both undergraduate and graduate seed technology courses has taken place. MS degree programs: ESALQ-MS candidates doing thesis research in seed technology in Plant Sciences Department. Pelotas-the first MS course in seed production started in March 1974.					

III. KEY OUTPUT INDICATORS AND TARGETS

B. Qualitative indicators for Major Outputs	Comment:
4. Varietal testing trials conducted at research facilities.	Trials conducted at Altamira, IPEANE, IPEAL, University of Ceará.
5. Assistance to equipment manufacturers, cooperative and private seed companies.	Comment: Relationships between MinAg and seed equipment manufacturers have been notably strengthened in the last year. Assistance by the Ministry in the solution of specific seed equipment related problems is being given. Special Central Bank line of credit has been established for seed equipment industry.

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IV. PROJECT PURPOSE

1. Statement of purpose as currently envisaged.

2. Same as in PROP? YES NO

Purpose: the development of a climate in which the needs of Brazilian agriculture for improved seeds can be met by a prosperous and responsive seed industry operating within a supportive governmental framework which provides incentives to private industry and the technical, research and regulative assistance necessary for it to operate.

b. 1. Conditions which will exist when above purpose is achieved.

2. Evidence to date of progress toward these conditions.

1. Identification and realization of required seed research.

1. Increased funding and improved facilities are available for seed research. Seed technology research is increasingly considered an integral part of overall GOB agricultural research priorities.

2. A widening proportion of farmers are effectively using increasing amounts of improved seeds.

2. Use of quality improved seed is directly proportional to the income producing function of a given commercial crop. Virtually 100% of wheat farmers are using improved seeds because of market demand.

3. The existence of a demand structure which stimulates the implantation and expansion of a private seed industry.

3. Highly commercialized crops with more demand for market structure create a higher demand for quality seed. Example of this are the production of wheat, soybeans, cotton and potatoes in the South of Brazil.

4. Functioning federal seed program administrative structure.

4. See comments under section 6 page 2.

5. Functioning system for multiplication and distribution of seed of improved varieties.

5. This factor is subject to the same variable stated for items 2 and 3 above.

V. PROGRAMMING GOAL

A. Statement of Programming Goal

Increase of agricultural production per annum.
Modernize agricultural production and marketing to meet domestic demand and expand exports.

B. Will the achievement of the project purpose make a significant contribution to the programming goal, given the magnitude of the national problem? Cite evidence.

Increased availability of improved seeds at reasonable cost is a key component in improved agricultural production.

Initial emphasis of this project in the South/Southeast Brazil has contributed significantly to the agricultural development of that area.