

PAR

5120247 (9)

1. PROJECT NO.

2. PAR FOR PERIOD:

3. COUNTRY

4. PAR SERIAL NO.

512-15-130-247.5

7/70

TO

7/71

Brazil

5. PROJECT TITLE

4p

PD-AAA-279-E1

Seed Industry Development

6. PROJECT DURATION: Began FY <u>63</u> Ends FY <u>73</u>	7. DATE LATEST PROP <u>July 1970</u>	8. DATE LATEST PIP	9. DATE PRIOR PAR <u>September 1970</u>
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10. U.S. FUNDING	a. Cumulative Obligation Thru Prior FY: \$ <u>1,868,000</u>	b. Current FY Estimated Budget: \$ <u>322,000</u>	c. Estimated Budget to completion After Current FY: \$ <u>659</u>
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11. KEY ACTION AGENTS (Contractor, Participating Agency or Voluntary Agency)

a. NAME <u>Mississippi State University</u>	b. CONTRACT, PASA OR VOL. AG. NO. <u>1a-165</u>
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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		
X	X		More technically balanced team possibly expanded to three men.	1/1/72
X			Additional clarification by contractor of future need for development of infrastructure and institutional capacity to implement policy and legislation.	10/25/71
		X	Additional clarification by GOB of personnel and financial activities to be obligated for utilization of technical support requested in continuation of project.	9/25/71
X		X	Start in-country short courses in seed plant design, operation and maintenance prior to departure of U.S. engineer.	10/ 1/71
X		X	Start in-country short courses in extension with extension agencies.	10/ 1/71
X			Include extension activities in long term training.	9/ 1/71
X			Start providing both short and long term training opportunities for private sector, particularly in design and installation of seed processing facilities.	ASAP

D. REPLANNING REQUIRES

REVISED OR NEW:

PROP
  PIP
  PRO AG
  PIO/T
  PIO/C
  PIO/P

E. DATE OF MISSION REVIEW

PROJECT MANAGER: TYPED NAME, SIGNED INITIALS AND DATE

MISSION DIRECTOR: TYPED NAME, SIGNED INITIALS AND DATE

Harry Johnson, ARDO

William A. Ellis, D/AID

PAR Team: Ministry of Agriculture - Dr. Celso Freitas

MSU - N. Soulairetta, USAID - H. Johnson, D. Cohen, W. Rodgers, J. DiLorenzo

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			OUTSTANDING		LOW		MEDIUM		HIGH
	1	2	3	4	5	6	7	1	2	3	4	5
1. Mississippi State University			X									X
2.												
3.												

Comment on key factors determining rating

Contractor's quality in relations with counterparts and in technical qualifications of personnel was superior. Although project was strengthened by heavy emphasis on completion of facilities started when contract team was much larger, this resulted in weakness in areas of seed technology research, seed extension, and particularly assistance in developing infrastructure and institutional capacity to implement seed policies and legislation. Limited size of team was a factor. More direct assistance to private sector should be attempted.

4. PARTICIPANT TRAINING	1	2	3	4	5	6	7	1	2	3	4	5
				X								X

Comment on key factors determining rating - Selection of participants in areas accorded priority, with high percentage of returned participants occupying key positions in seed sector at State and National level have made significant input to policy and legislative changes. Earlier problem of non-availability of participants solved. Insufficient priority placed on obtaining participants from private sector and seed extension. Insufficient utilization of U.S. technician for training in plant design and operation.

5. COMMODITIES	1	2	3	4	5	6	7	1	2	3	4	5
					X							X

Comment on key factors determining rating

Appropriateness of U.S. commodities superior. Anticipated shift to Brazilian commodities being made. Capability of maintaining U.S. equipment is limited.

6. COOPERATING COUNTRY	a. PERSONNEL											
	1	2	3	4	5	6	7	1	2	3	4	5
				X								X
	b. OTHER											
				X								X

Comment on key factors determining rating

General enthusiasm and receptiveness to change. Intent to sustain project after termination of U.S. inputs has been superior. Some tendency to use U.S. personnel solely as technicians rather than as consultants during period was due partially to make-up of contract team. Insufficient emphasis in extension and seed technology research. Further development of infrastructure and institutional capacity to implement plans laid out by legislative and policy changes is required.

7. OTHER DONORS	1	2	3	4	5	6	7	1	2	3	4	5

(See Next Page for Comments on Other Donors)

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

### III. KEY OUTPUT INDICATORS AND TARGETS

A. QUANTITATIVE INDICATORS FOR MAJOR OUTPUTS		TARGETS (Percentage/Rate/Amount)					END OF PROJECT
		CUMULATIVE PRIORITY	CURRENT FY		FY-72	FY-73	
			TO DATE	TO END			
ACADEMIC TRAINING (1) Includes those documented to leave in 1971	PLANNED	17	8	8	0	0	25
	ACTUAL PERFORMANCE	11	8 (1)				
	REPLANNED			5	Now Being Planned		
IN-COUNTRY TRAINING Top Figure - Specialized Bottom Figure - General (2) Figure is conservative	PLANNED	317 1200(2)	8 110	8 110	0	0	325 1400
	ACTUAL PERFORMANCE	267 1350	0 1				
	REPLANNED				Now Being Planned		
SHORT TERM STUDY TOURS (Numbers of Participants) (3) To leave Sept. 71	PLANNED	50	10	60			
	ACTUAL PERFORMANCE	48	8 (3)				
	REPLANNED				Now Being Planned		
LABORATORIES, PROCESSING PLANTS, STORAGE UNITS	PLANNED	47	48	48			48
	ACTUAL PERFORMANCE	43	42				
	REPLANNED			45	47		47
B. QUALITATIVE INDICATORS FOR MAJOR OUTPUTS		COMMENT:					
1. Seed laws effectively implemented and private sector environment created.		Although necessary legislation and decrees have been passed and some states have signed agreements, much work remains in developing capacity to implement further and to clarify role of private sector.					
2. Research and extension programs implemented		COMMENT: Some but not enough progress to date.					
3. Seed multiplication organizational capacity developed		COMMENT: Widespread use, particularly in South of "fiscalization" program. Future need is to upgrade this into "certification" capacity.					

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IV. PROJECT IMPACT

A. 1. Statement of purpose or currently envisaged Purpose: 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. 2. Same as in PROP?  YES  NO

B. 1. Conditions which will exist when above purpose is achieved. 2. Evidence to date of progress toward these conditions.

- |   |   |
|---|---|
| <p>1. Effective Nat'l and state seed laws enacted and implemented.</p> <p>2. There exists an adequate supply and adequate means of supply of well-trained seed technologists and extension specialists.</p> <p>3. Seed research programs developed and coordinated within established institutions.</p> <p>4. A widening proportion of farmers of all income levels, geo- regions and crop cultures are effectively using increasing amounts of improved seeds to their own and the nation's econ. advantage.</p> <p>5. An expanding private seed industry.</p> <p>6. Responsive, adequately equipped and staffed seed testing labs, storage units and processing plants.</p> | <p>1. National laws and regulations have been enacted. States are beginning to sign implementive agreements at National level within framework of National law.</p> <p>2. Supply of technologists growing but not yet adequate. EMBRAPA beginning to play a role. Few results in extension area to date.</p> <p>3. Limited seed technology research being done. GOB recognized problem and is working on it. Increase in rate of return of participants starting Fall '71 will help.</p> <p>4. Spectacularly evident in wheat growing areas of South. Improving amounts in other areas except Northeast.</p> <p>5. Considerable progress, again in South, up to twelve new companies formed in past seven years. Private seedmen legislation started.</p> <p>6. All 20 installations built with project support functioning well. GOB now financing further expansion (10 processing plants scheduled in NE for 1972) based on project approved facilities.</p> |
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C. Summary of major accomplishments to date

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

D. Will the achievement of the purpose or purposes of the project be sufficient to solve or improve the situation given the requirements of the national problem? Cite evidence.

Yes. Improved seed is a key component in the increase of agricultural production. Initial emphasis in Southeast has led to modernization of farming made possible by large production increases due in large measure to introduction of improved seed, particularly in wheat and soybeans.