

526005003/10

ISN-32057

PROJECT APPRAISAL REPORT (PAR)

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1. PROJECT NO. 526-15-110-050.3	2. PAR FOR PERIOD: 6/1/70 TO 12/15/71	COUNTRY PARAGUAY	4. PAR SERIAL NO. 72-5
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3. PROJECT TITLE
LIVESTOCK DEVELOPMENT
PD-AAN-440

1. PROJECT DURATION: Began FY 67 Ends FY 75	7. DATE LATEST PROP 9/22/69	8. DATE LATEST PIP 5/15/70	9. DATE PRIOR PAR 6/16/70
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10. U.S. FUNDING	a. Cumulative Obligation Thru Prior FY \$ 1,484,000	b. Current FY Estimated Budget: \$ 300,000	c. Estimated Budget to completion After Current FY: \$ 515,000
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11. KEY ACTION AGENTS (Contractor, Participating Agency or Voluntary Agency)

a. NAME New Mexico State University	b. CONTRACT, PASA OR VOL. AG. NO. AID/1a-520
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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			Improved procurement procedures for ordering commodities.	Continuing
X			USAID and NMSU to find a viable solution to bring about closer cooperation between NMSU and PRONIEGA.	June 1972
X		X	Joint review to ascertain if there is good cooperation between PRONIEGA and NMSU.	September 1972
X			NMSU obtain statistics from each cooperator ranch to obtain information to measure targets.	June 1972
X			NMSU develop "a think piece" on the type of structure for livestock development that can be sustained after the project terminates.	July 1972
X		X	Joint review to ascertain if there is closer cooperation between MAG and FAV.	September 1972
X		X	Consider creation of Board of Directors for the project with representative of the Mission, MAG, FAV, and the Rural Association.	April 1972
X			NMSU determine for the new ProAG a new schedule of training of the PRONIEGA staff, to review completely US training of PRONIEGA staff, and concept of selecting only one M.S. participant in each field.	April 1972
X			NMSU to supervise closer the returned participants to assure better results from the research projects.	Continuing
X		X	Joint determination with all interested parties of list of research topics.	June 1972
X			Mission and NMSU decide on composition of NMSU team for CY 1972.	March 1972
X			Prepare discussion paper on BID's lack of technical assistance under its loan and the implication to USAID.	March 1972
X			NMSU and Mission to devise a plan whereby the Ministry can be an coordinator between PRONIEGA and Fondo Ganadero.	May 1972
X			Revised PIP	March 1972
X			Revised PROP	June 1972

D. REPLANNING REQUIRES	E. DATE OF MISSION REVIEW
REVISED OR NEW: <input checked="" type="checkbox"/> PROP <input checked="" type="checkbox"/> PIP <input type="checkbox"/> PRO AG <input type="checkbox"/> PIO/T <input type="checkbox"/> PIO/C <input type="checkbox"/> PIO/P	

PROJECT MANAGER: TYPED NAME, SIGNED INITIALS AND DATE Sandford W. White	MISSION DIRECTOR: TYPED NAME, SIGNED INITIALS AND DATE John R. Oleson
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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			OUTSTANDING		LOW	MEDIUM			HIGH	
	1	2	1	4	5	6	7	1	2	3	4	5	
1. New Mexico State University					X								X
2.													
3.													

Comment on key factors determining rating

The NMSU contract team has very satisfactorily assisted the Ministry of Agriculture construct the Livestock Experiment Stations in the Chaco and at the Barreiro's Ranch. They have successfully initiated livestock research at the two stations even though operations were hindered by a delay in receiving PL 480 money. They have also satisfactorily initiated a ranch services program with the Rural Association.

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

Comment on key factors determining rating

Training is on schedule. All returned participants have been reemployed as planned. (Training funds are provided under Agricultural Institutional Development project).

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

Comment on key factors determining rating

Xa--Commodities purchased under contract have arrived on schedule with no difficulties
Xb--Commodities procured through the Mission have experienced extended delays as a result of slow documentation process. For example, commodities requested in Fall 1969 were not ordered until Fall 1970, and as yet have not arrived. New procurement procedures in the Mission by Divisions and the adm. section have been implemented.

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

Comment on key factors determining rating

While the technicians from MAG and FAV are, by in large, competent and dedicated, there is a lack of cooperation between the two institutions at the higher policy level. This is based upon the traditional rivalry between veterinarians and agronomists and personal dislike by some high MAG officials of FAV. Work has been set back because of budget problems in PRONIEGA (mainly a delay of six months for PL 480 funds). Mutually agreed work to be funded by PRONIEGA and NMSU at times have been unilaterally changed by PRONIEGA. Some of the management practices of PRONIEGA officials are deficient. (Steps already have been taken to correct this situation). NMSU is not sure what will happen to PRONIEGA, which is under the MAG, at the end of the project. In other LA countries with a similar project, research in the end has been taken out of the Ministry and placed in an autonomous organization.

7. OTHER DONORS	1	2	3	4	5	6	7	1	2	3	4	5
		Xb		Xa							X	

(See Next Page for Comments on Other)

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

Xa--The cooperation between BID and NMSU is good. MAG/NMSU technicians developed the livestock portion of the new BID loan for \$14.8 million. (\$290,000 for PRONIEGA; \$413,700 for livestock reproduction; \$509,800 for livestock extension). There is very little TA provided by the loan and NMSU will be relied upon to provide TA to PRONIEGA.

Xb--The World Bank and its agencies have loaned \$8.6 million for livestock development. The funds are only for physical improvements, and these new facilities have not resulted in sufficient additional income to repay the loans. The Fondo Maderero, financed with funds from the loans, does not coordinate its work of assisting the herders with that of our T.A.

III. KEY OUTPUT INDICATORS AND TARGETS

A. QUANTITATIVE INDICATORS FOR MAJOR OUTPUTS		TARGETS (Percentage/Rate/Amount)					
		CUMULATIVE PRIOR FY	CURRENT FY 72		FY 73	FY 74	END OF PROJECT
			TO DATE	TO END			
Research studies which meet NMSU standards (Completed cumulative)	PLANNED	4	4	5	7	10	12
	ACTUAL PERFORMANCE	4	4				
	REPLANNED						
Cooperator ranchers (Cumulative)	PLANNED	5	5	10	15	20	30
	ACTUAL PERFORMANCE	10	11				
	REPLANNED			15	20	25	30
PRONIEGA visits to innovator ranches (Cumulative)	PLANNED	50	75	150	350	550	900
	ACTUAL PERFORMANCE	350	400				
	REPLANNED			500	700	900	1,000
PRONIEGA and FAV staff trained to MS or PHD level (Cumulative)	PLANNED	13	13	16	17	26	42
	ACTUAL PERFORMANCE	13	13				
	REPLANNED						
B. QUALITATIVE INDICATORS FOR MAJOR OUTPUTS		COMMENT:					
1. NMSU quality standards		Research studies are approved by NMSU campus faculty.					
2. PRONIEGA visits to innovator ranches		COMMENT: There have been no difficulties in getting cooperator ranchers to accept new methods, however, the ranchers have more confidence in technical advice given by MAG in the presence of U.S. technicians.					
3. Demand by ranchers for services of MAG/FAV technicians		COMMENT: Demand indicates value and practicality of research being done. Demand so far is such that technicians are fully occupied in providing requested assistance to ranchers.					

IV. PROJECT PURPOSE

A. 1. Statement of purpose as currently envisaged.

2. Same as in PROP? YES NO

The purpose is to create a viable institution that will provide adequate research, demonstration, and extension services to the livestock industry.

B. 1. Conditions which will exist when above purpose is achieved.	2. Evidence to date of progress toward these conditions.
<ol style="list-style-type: none"> 1. Thirty innovator ranches <ol style="list-style-type: none"> a. Calving rate of 60-65% b. Age at marketing -3 years 2. Ranchers visiting innovator ranches. Some improved practices adopted by 50% of visitors. 3. Some improved practices by ranchers where FAV students of animal production are employed for summers and after graduation. 4. 100% of PRONIEGA budget funded from National Budget. 5. FAV graduates: <ol style="list-style-type: none"> a. At least 90% employed in jobs using their animal production (AP) training. b. At least 25% of 1975 class employed in ranching industry jobs using AP training. 	<ol style="list-style-type: none"> 1. Eleven ranches; number increasing ahead of schedule. <ol style="list-style-type: none"> a. 50% -It will be another year before impact resulting from new techniques is demonstrated. b. 4 years 2. By end of FY-72 it will be known how many ranches have adopted improved practices since FY-71 is first year for visiting ranchers. 3. Forty eight FAV graduates are working on their own or other ranches. Evidence of progress can be seen on all ranches. 4. 20% - It is anticipated at the end of CY-71 funding will reach 40%. 5. Students under new 5 year curriculum will not complete their schooling until 1976. Ninety eight and a half percent of the FAV students graduated from 1956 to 1966 are employed in fields related to their training. About half of the students are working in the public sector.

V. PROGRAMMING GOAL

A. Statement of Programming Goal

To produce 123 thousand MT of beef by 1976 (a 15% increase from 101 thousand MT produced in 1968).

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.

The services that we are aiming to have the GOP provide are directly related to increasing production--research for higher calving rates, better feeding so animals can be brought to market faster, etc. The dissemination of these research results through the cooperator ranches should also lead to the neighboring ranches adopting the new practices and techniques. Through this approach the work of the project and achievement of the project purpose can increase total beef production in Paraguay.

PROJECT DESIGN SUMMARY
LOGICAL FRAMEWORK

(INSTRUCTION: THIS IS AN OPTIONAL FORM WHICH CAN BE USED AS AN AID TO ORGANIZING DATA FOR THE PAR REPORT. IT NEED NOT BE RETAINED OR SUBMITTED.)

Life of Project:
From FY 1967 to FY 1975
Total U.S. Funding \$2,299,000
Date Prepared: December, 1971

Project Title & Number: LIVESTOCK DEVELOPMENT 526-15-110-050.3

NARRATIVE SUMMARY	OBJECTIVELY VERIFIABLE INDICATORS	MEANS OF VERIFICATION	IMPORTANT ASSUMPTIONS
<p>Program or Sector Goal: The broader objective to which this project contributes:</p> <p>To produce 123 thousand MT of beef annually by 1976 (a 15% increase from 101 thousand MT produced in 1969).</p>	<p>Measures of Goal Achievement:</p> <ol style="list-style-type: none"> 1. Beef slaughtered - 700,000 animals in 1976 2. Marketing age of steers slaughtered at 400 kilos - 4 years (nationwide average) 3. Calving rate (nationwide average) - 55% and rising 4. Dress-out percentage - 50% 	<ol style="list-style-type: none"> 1. Slaughterhouse statistics 2. Slaughterhouse sampling 3. Slaughterhouse statistics 4. Slaughterhouse statistics 	<p>Assumptions for achieving goal targets:</p> <ol style="list-style-type: none"> 1. Projects to lower transport costs for beef continue as planned 2. World beef prices do not decrease 3. SENALFA will be successful in clearing major geographical areas of aftosa 4. Sanitation and inspection of processing facilities continue to improve. 5. Increase in production comes from better livestock conditions, and not from depletion of the size of the total herd.

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NARRATIVE SUMMARY	OBJECTIVELY VERIFIABLE INDICATORS	MEANS OF VERIFICATION	IMPORTANT ASSUMPTIONS
<p>Project Purpose:</p> <p>To create a viable institution that will provide adequate research, demonstration, and extension services to the livestock industry.</p>	<p>Conditions that will indicate purpose has been achieved: End of project status.</p> <ol style="list-style-type: none"> 1. Thirty innovator ranches <ol style="list-style-type: none"> a. Calving rate of 60-65% on innovator ranches b. Age at marketing - 3 years on innovator ranches 2. Ranchers visiting innovator ranches. Some improved practices adopted by 50% of visitors. 3. Some improved practices by ranchers where FAV students of animal production are employed for summers and after graduation. 4. 100% of PRONIEGA budget funded from National Budget. 5. FAV graduates: <ol style="list-style-type: none"> a. At least 90% employed in jobs using their animal production (AP) training. b. At least 25% of 1975 class employed in ranching industry jobs using AP training. 	<ol style="list-style-type: none"> 1. Inspection of ranch records 2. Inspection of ranch records 3. Inspection of ranch records 4. GOP budget documents 5. Periodic questionnaires sent to graduates. 	<p>Assumptions for achieving purpose:</p> <ol style="list-style-type: none"> 1. GOP continues to ascribe high priority to agriculture sector. 2. International lending institutions continue to provide sufficient funds for agricultural credit (investment). 3. Price at standard quality Paraguay beef not less than \$18 per kilo live weight with demand for all beef offered at that price.

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NARRATIVE SUMMARY	OBJECTIVELY VERIFIABLE INDICATORS	MEANS OF VERIFICATION	IMPORTANT ASSUMPTIONS
<p>Outputs:</p> <p>PRONIEGA provides services to increase productivity of the livestock industry:</p> <ol style="list-style-type: none"> 1. Animal production specialists trained 2. Research executed 3. Innovator farms use improved practices 4. Research results disseminated 	<p>Magnitude of Outputs:</p> <ol style="list-style-type: none"> 1. PRONIEGA services to livestock industry. <ol style="list-style-type: none"> a. 12 research studies, per the 10 year research, plan that meet NMSU standards of quality. b. 30 innovator ranches to disseminate improved practices. c. Ranchers receive research results. <ol style="list-style-type: none"> (1) 1000 visits to innovator ranches (cumulative) (2) Printed materials with research results 25 titles--printing of 1,000 in total--immediate distribution of 300. (3) Personal visits by technicians: 144 ranches. d. 16 AP specialists in PRONIEGA trained to M.S. level. 2. FAV trains animal production (AP) specialists. <ol style="list-style-type: none"> a. 5 full-time professors of AP trained to M.S. level. b. Facilities for AP department as planned. c. 4th year students placed in summer internships and part-time work if competent and desiring jobs. d. enrollment in AP department --25 per year and not declining. e. First class graduates in 1976. 	<ol style="list-style-type: none"> 1. a. Published research reports. b. PRONIEGA records of innovator farms. c. PRONIEGA records of extension services provided. d. USAID Training Office records and college transcripts. 2. a. USAID Training Office records and college transcripts. b. Inspection of facilities. c. FAV records of work placement. d. FAV/AP enrollment documents. e. Graduation exercises. 	<p>Assumptions for achieving outputs:</p> <ol style="list-style-type: none"> 1. Ministry of Agriculture will continue to place priority emphasis on livestock development. 2. Participant training is on schedule. 3. PRONIEGA received budget support to operate as scheduled. 4. There is cooperation between PRONIEGA and FAV on research projects.

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<p>Inputs:</p> <p>1. <u>USAID</u> New Mexico State University Contract \$1,399,000 Commodities 80,000 Participant training 3,000 Other 2,000 <u>\$1,484,000</u></p> <p>2. <u>GOP</u> P.L. 480 \$ 692,000 Regular budget 695,000 In kind: Office space Chaco - 2,390 ha. Barrerito- 1,000 ha.</p> <p>3. <u>Multilateral</u> Loans: BID \$4,414,000 IBRD and IDA \$8,600,000 Beef Marketing Study by Export Promotion Center</p> <p>* Training for this project comes from funds under the Agricultural Institutional Development Project No. 526-15-110-050.1</p>	<p>Implementation Target (Type and Quantity)</p> <p>As per PIP</p>	<p>1. AID - CFS, PROP, PROAG, and annual PBS. 2. GOP - Budget and planning documents. 3. Multilateral - loan documents of BID and IBRD.</p>	<p>Assumptions for providing inputs:</p> <p>1. Planned levels of inputs from all sources continue to 1976. 2. Market and tax studies financed from non-project sources.</p>