

PROJECT APPRAISAL REPORT (PAR)

PAGE 1

4p.

1. PROJECT NO. 524-11-120-067	2. PAR FOR PERIOD: 1/1/72 TO 12/31/73	3. COUNTRY Nicaragua	4. PAR SERIAL NO. 74-7
5. PROJECT TITLE			

Irrigation Development

6. PROJECT DURATION: Began FY 70 Ends FY 74	7. DATE LATEST PROP 9/11/70	8. DATE LATEST PIP -	9. DATE PRIOR PAR Dec. 16, 1974
10. U.S. FUNDING	a. Cumulative Obligation Thru Prior FY: \$ 133,000	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	b. CONTRACT, PASA OR VOL. AG. NO.
UNICONSULT	BG (GON 1968-1)
Louisiana State University	BG (GON 1969-1)
" " "	BG (GON 1972-1)

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			No additional funding will be provided under this project. Technical Assistance to the Ministry of Agriculture for research on the production of non-traditional crops with irrigation is being continued through CY 1974 under the Agricultural Production and Diversification Project, No. 524-11-140-073 pending completion of the agricultural sector study and redefinition of GON priorities for the agricultural sector.	

RECORD COPY
(n.d.)

D. REPLANNING REQUIRED							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"/> RIO/C	<input type="checkbox"/> PIO/P		
PROJECT MANAGER: TYPED NAME, SIGNED INITIALS AND DATE				MISSION DIRECTOR: TYPED NAME, SIGNED INITIALS AND DATE				
Carl D. Koone				Robert E. Culbertson				

AID 1020-25 (10-70)	PROJECT NO. 524-11-120-067	PAR FOR PERIOD: 1/1/72 to 2/31/73	COUNTRY Nicaragua	PAR SERIAL NO. 74-7
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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	3	4	5	6	7	1	2	3	4	5	
1. Louisiana State University					X								X
2.													
3.													

Comment on key factors determining rating

The resident technician, as well as short-term personnel assigned to the project, performed at a better than average rate in testing horticultural crops and in documenting the results of tests performed.

*UNICONSULT withdrew from the project prior to this reporting period.

4. PARTICIPANT TRAINING	1	2	3	4	5	6	7	1	2	3	4	5
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Comment on key factors determining rating

N/A

5. COMMODITIES	1	2	3	4	5	6	7	1	2	3	4	5
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Comment on key factors determining rating

N/A

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

- a. Positions have been fully staffed, however several changes in technical personnel have occurred. Academic preparation, practical experience and dedication to public service of some staff members have not measured up to desired levels.
- b. The inability of the Ministry to provide adequate farm equipment and transportation for project technicians served as a constraint to the success of the project. The farm cooperator concept proved unsuccessful. Cooperators could not be counted on to perform required operations for successful irrigation farming on a timely basis.

7. OTHER DONORS	1	2	3	4	5	6	7	1	2	3	4	5
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(See Next Page for Comments on Other Donors)

AID 1020-25(10-70)	PROJECT NO. 524-11-120-067	PAR FOR PERIOD: 1/1/72 to 12/31/73	COUNTRY Nicaragua	PAR SERIAL NO. 74-7
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II. 7. Continued: Comment on key factors determining rating of Other Donors

Although not a part of this project, irrigation development operations carried out under the auspices of the National Bank of Nicaragua with technical assistance provided through the TAHAL consulting firm contribute to the long range objectives of this project.

III. KEY OUTPUT INDICATORS AND TARGETS

A. QUANTITATIVE INDICATORS OF MAJOR OUTPUTS		TARGETS (Percentage/Rate/Amount)					END OF PROJECT
		CUMU- LATIVE PRIOR FY	CURRENT FY		FY ____	FY ____	
			TO DATE	TO END			
Irrigation system established on 20 manzanas on each of 5 cooperator farms.	PLANNED	5	-	-			5
	ACTUAL PERFORMANCE	5	-				
	REPLANNED						
One twenty manzana irrigation crop experimental station established, equipped and conducting crop experiments.	PLANNED	1	-	-			
	ACTUAL PERFORMANCE	1	-				
	REPLANNED						
Ten crops identified which can be profitably produced in a year round farming system using irrigation.	PLANNED	10	-	-			10
	ACTUAL PERFORMANCE	10	6+	1/			
	REPLANNED						
	PLANNED						
	ACTUAL PERFORMANCE						
	REPLANNED						
B. QUALITATIVE INDICATORS FOR MAJOR OUTPUTS	COMMENT:						
1.	Insect population build-up following termination of cotton spray operations make control measures both costly and difficult during January to March. Virus diseases, for which the white fly is a vector also are important limiting						
2.	COMMENT: factors for the production of many susceptible crops.						
3.	COMMENT: <u>1/</u> Additional crops have been studied which under existing economic conditions have not been found as being profitable.						

AID 1020-25 (10-70) PAGE 4 PAR	PROJECT NO. 524-11-120-067	PAR FOR PERIOD: 1/1/72 to 12/31/73	COUNTRY Nicaragua	PAR SERIAL NO. 74-7
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IV. PROJECT PURPOSE

A. 1. Statement of purpose as currently envisaged.

2. Same as in PROP? YES NO

To demonstrate the proper use of irrigation and determine appropriate cropping patterns for the production of annual crops on a 12 months basis on the Pacific Coast of Nicaragua.

B. 1. Conditions which will exist when above purpose is achieved.	2. Evidence to date of progress toward these conditions.
<p>1. At least 10 crops identified that can be grown in a crop rotation utilizing irrigation in the dry season.</p> <p>2. Successful operation of irrigation practices, both in terms of profitability and technical feasibility on at least 5 irrigated farms directly cooperating with project.</p>	<p>1. Sixteen crops (corn, sorghum, peanuts, cowpeas, okra, pigeon peas, guar, safflower, cucumbers, melons, watermelons, squash, sweet potatoes, eggplant, hot peppers and yuca) have all been successfully produced. Cowpeas and okra are both currently being commercially frozen and exported. Pigeon peas, broccoli and cauliflower have shown some promise as potential crops for the frozen market.</p> <p>2. Only one of the farm cooperators operated successfully, however, numerous farmers who are not formal project cooperators have installed irrigation systems and are successfully irrigating farm crops and pastures.</p>

V. PROGRAMMING GOAL

A. Statement of Programming Goal

To assist the GON in increasing and diversifying the productive capacity of the economy.

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 project itself has not yet made a significant contribution directly to goal. Much additional research will be needed. It will be significant to the extent that farmers shift to the production of non-traditional crops utilizing irrigation to extend the growing season and to reduce risk taking from extended dry periods during a traditional period of crop production.