- to enable them to participate of recreational and cultural activities. They have also cooperated in the organization of festivals, exhibitions and shows bringing in refreshments and food, providing the physical facilities and contributing with prizes.

 This type of cooperation has been almost island wide.
- 3. In the Mayaguez School region some municipalities have bought buses which they rent at moderate price to the Program of School Transportation thus allowing a greater number of economically deprived students to receive the benefits of this service.

 4. The Municipal Government at Las Marias have cooperated with the Centers of Study and Supervision providing the physical facilities for conducting the classes and a warehouse for books and ties for conducting the classes and a warehouse for books and
- materials.

 The Juncos Lions Club contributed with money for buying additional books for the Rural Mobile Library in the Juncos

school district.

Distinguished members of the community have actively participated in some of the cultural activities offered by the Cultural and Recreational Program giving conferences, art shows, recitals, etc. Parents have voluntarily helped the teachers in taking care of groups of students on trips and excursions and preparing refreshments and different kinds of foods for various activities.

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TEACHER AIDES, TEACHER EDUCATION

IDENTIFIERS *ELEMENTARY SECONDARY EDUCATION ACT TITLE I PROGRAM,

ESEA TITLE I PROGRAMS, PUFRTO RICO

AESTRACT

THIS REPORT ON THE ELEMENTARY AND SECONDARY LDUCATION ACT TITLE I PROGRAMS IN PUERTO RICO CONCENTRATES ON IMPROVEMENTS OF SUBSTANDARD CONDITIONS AND OF EDUCATIONAL ACHIEVEMENTS, ON RECREATIONAL AND CULTURAL ENGICHMENT, AND ON TEACHER TRAINING. TOPICS COVERED ARE: EFFECTS OF PRESCHOOL EDUCATION; EFFECTS OF TITLE I PROGRAMS ON GRADES 3, 6, 7, AND 10; NONPUBLIC SCHOOL PARTICIPATION; TEACHER AND TEACHER ALLE TRAINING PROGRAMS; AND, PARENTS AND COMMUNITY INVOLVEMENT. TABLES AND GRAPHS ARE INCLUDED... (KG)

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Commonwealth of Puerto Rico DEPARTMENT OF EDUCATION Hato Rey, Puerto Rico

State Annual Evaluation Report Title I, ESEA

Fiscal Year 1968

000071

Submitted by:

Ramón Mellado Secretary of Education



PUERTO RICO ANNUAL EVALUATION REPORT Fiscal Year 1968 (School Year 1967-1968)

TITLE I, PUBLIC LAW 89-10

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ANNUAL EVALUATION REPORT Fiscal Year 1967

Introduction:

of the activities thus funded have continued, some with slight changes, a few with major changes, some have been expanded, others have been reduced and others have been entirely dropped. Our main efforts, however, continue to be concentrated on the same major areas or projects, namely:

- 1. Improvement of substandard conditions
- 2. Improvement of educational achievement
- 3. Recreational and cultural enrichment
- 4. Teacher training

Since the beginning a decision was made that evaluation of Title I would be centered through the Division of Evaluation which would coordinate all evaluation efforts of Title I projects. For the past two years the Division has been undertaking a massive endeavor to gather data which would enable us more effectively to evaluate these projects. These data have gone to make up student, facilities, and personnel files in a computerized "Test and Evaluation" system being developed for the Department of Education under contract with Federal Systems Division of IBM.

Although we are pleased with the amount of progress achieved so far, we feel that still there is a long way to go in order to be able to assess with the greatest degree of accuracy the effects of efforts expended to increase the attainment of our disadvantaged school population. We are still in the process of developing adequate measuring instruments and we need to develop additional techniques for measuring (1) attitudinal aspects of pupil performance, (2) the environmental conditions under which learning occurs and (3) studies in cost effectiveness of educational programs and ancillary services. More adequate procedures for the collection of data need to be established. However, the kind of information already available enables us to reach some preliminary



conclusions as to the general impact the Title I program might have had in our educational system. We cannot be completely certain that the changes described below were caused by the increased federal aid Puerto Rico received under Title I, nevertheless, unable to identify other events which might provide alternative explanations, it seems reasonable to attribute these to the effects of the Title I program.

Among these changes it seems worth mentioning the increase in the number of pupils who are actually receiving more hours of instruction. The number in thousands and percentages of public day school students by school level and type of school organization for the school years 1961-62 to 1967-68 are presented in Table I. As may be seen in the table, the number of elementary public day school pupils getting six hours of instruction is higher for the years 1965-66 to 1967-68 than for years prior to Title I. Although there was a trend of increase in previous years it was not as high as for the above mentioned years. This change is also confirmed when we compare the number of students who received only three hours of instruction during the school years 1961-62 to 1964-65 and 1965-66 to 1967-68. The decrease in the number of students getting only three hours has been due almost entirely to the fourth hour program, one of the activities under Area I of the Title I program. The table also reveals a similar trend in the secondary level.

Table 2 presents cumulative retention rates for various school years.

This also shows a favorable change taking place in our educational system during the past two years.

The average number of pupils per classroom teacher has decreased in the elementary school level from an average of 40.3 in the year 1964-65 to an average of 35.9 in the year 1967-68. Although as shown in Table 3 there was a decrease in the average number of pupils per classroom teacher in the years prior to Title I, this trend was even greater during the past two years.



TABLE I

Number (in thousands and Percentages of Public, Day School Pupils in Di

Selected Years 1961-62 to 196

	70/7		1	, , , , , , , , , , , , , , , , , , ,	1		
	1961-	Laurence	_1	62-63	1963-		
Level and type organization	No	Ç.	No.	9,	No.	q_p	
Elementary (1-6) Single - 6 hours	128.6	33	137.0	35	146.9	37	
Interlocking - 5 hours	75.6	19	81.9	21	83.6	21	
Double - 4 hours			_	-			.
Double - 3 hours	184.9	48	171.9	2;2;	164.2	42	
•	389.1	100	390.7	100	394.7	1.00	
Junior High (7-9) Single - 6 hours	74.6	59 1.3	76.9	60	76.9	61	
Interlocking - 5 hours	52.6	41	50.2	40	49.9	39	
	127.2	100	127.2	100	126.8	100	
Senior High (10-12)							
Single - 6 hours	49.5	75	51.3	70	50.9	64	
Interlocking - 5 hours	16.2	25	21.5	30	28.0	36	-
	65.7	100	72.8	100	78.9	1.00	
All Levels Single - 6 hours	252.7	43	265.1	45	274.7	· 146	
Interlocking - 5 hours	144.4	25	154.0	26	161.0	27	
Double - 4 hours	des			-	***		
Double - 3 hours	184.9	32	171.9	59	164.2	27	
	582.0	100	590.0	100	599.9	100	

Note: Figures correspond to first school month.
Source: Division of Statistics, O.E.P.D. Department of Education Commonwealth c

TABLE I Public, Day School Pupils in Different Types of Organization by School Level Selected Years 1961-62 to 1967-68

19	62-63	1963-		1964-	65	1955-	66	1.966-	67	1967	- 68
b.	0/,	No.	of,	No.	Q.	No.	0/2	No.	Ø.	No.	Q.
.0	35	146.9	37	157.4	39	176.6	13	187.5	45	203.6	47
. 9	21	83.6	21	90.8	23	95.6	23	2.04.2	. 25	104.0	24
				did distribut the stypestrating authorized the	***	-7.2	2	34.1	8	30.3	7
. 9	1;14.	164.2	42	154.3	38	128.2	32	90.8	52	95.3	55
7	100	394.7	1.00	402.5	100	407.6	100	416.6	100	1+33.2	100
.9	60	76.9	61	78.9	62	80.2	63	82.7	62	96.1	69
2.2	40	49.9	39	48.4	38	49.2	37	50.2	38	96.1 43.2	69 31
7.2	100	126.8	100	127.3	100	129.4	100	132.9	100	139.3	100
							·•				
				_							
.3	70	50.9	64	49.3	59	51.9	61_	56.4	64	62.3	70
.5	30	28.0	36	33.7	41	33.8	39	32.3	36	26.7	30
.8	100	78.9	100	83.0	100	85.7	100	88.7	100	89 .0	100
1.1	45	274.7	. 1,6	285.6	47	308.7	50	326.6	51.1	352.0	55
.0	26	161.0	27	172.0	28	178.6	28	1.85.8	29.3	173.9	55 26
	mes.	**		And		.7.2]_	34.1	5.4	30.3	5
. 9	29	164.2	27	154.3	25	128.2	21	90.8	14.2	95.3	1/4
0.0	100	599.9	100	611.9	100	622.7	100	638.3	100	661.5	1.00

nt of Education Commonwealth of Puerto Rico

Cumulative Retention Rates Public Day School 1st-6th Grades, School Years 1959/60-1967/68

First Grad	de Enrollment	: Sixth Grad	le Enrollment	Five Years Later
School Year	Number of Pupils*	School Year	Number of Pupils*	: % of 1st. Grade Enrollment : Five years earlier
1959-60	76 , 778	: : 1964-65	53,151	: : 69.22
1960-61	78,636	: : 1965-66	55,644	: 70:76
1961-62	80,805	: : 1966-67	58,059 **	: 71.85
1962-63	79,299	: 1967~68	58,711 **	74.03

7th-12th Grades, School Years 1959/60-1967/68

Seventh	Grade	Enrollment	:	Twe1fth	Grade	Enrollment		Five Years Earlier
School Year		Number of Pupils	:	School Year	•	Number of Pupils*	:	% of 7th GradeEnrol1ment Five years earlier
1959-60		52,008	:	1964-65		22,146	:	42.58
1960-61	ŕ	50,285	:	1965-66		22,516	:	44.77
1961-62		49,821	•	1966-67		23,187 **	:	46.54
1962-63		49,336	:	1967-68		23,957 **	: :	48.55

1st. to 12th Grades, School Years 1953/54-1967-68

First Grad	de Enrol1ment	: Twelfth Gra	ide Enrollment	: 11 Years Later
School Year	Number of Pupils	: School : Year	Number of Pupils*	: % of 1st. Grade Enrollment: 11 years Earlier
1953-54	87,052	: : 1964-65	22,146	: 25.43
1954-55	78,372	: : 1965-66	22,516	: : 29.73
2955- 56	75,712	: 1966-67	23,187 **	: : 30.62
1956-57	74,035	: 1967-68	23,957 **	: : 32.36

^{*} Enrollment in Sixth Month of School Year (January)

^{**} Enrollment in final Month of School Year (May)

Table 3

AVERAGE NUMBER OF PUPILS PER CLASSROOM TEACHER BY SCHOOL LEVEL

Leve1

	Elementary	Junior High	Senior High
1 961 - 62	43.9	31.5	35.2
1 962 - 63	42.4	30.6	36.0
1963-64	41.5	30.1	35.2
1 96465	40.3	29 5	34.0
1 965~66	39.5	29.4	32.3
1966-67	39.2	29.3	30.9
1 967 - 68	35.9	29.9	29.7
		,	

ANSWERS TO QUESTIONS 1 - 9

1. Basic State Statistics:

Puerto Rico is considered both a State and Local Educational Agency, therefore, our answer to questions A and B is the same.

- A. Total number of operating LEA'S in the State 1
- B. Number of LEA'S participating in Title I 1
- C. Number of Title I programs 4
- D. Unduplicated number of pupils who participated in Title I programs
 - (1) enrolled in public schools 670,061
 - (2) enrolled in non-public schools 6,987



2. Since Puerto Rico is both State and Local Agency, the SEA Title I staff only includes personnel from the Title I Coordinator Office plus personnel from the Division of Evaluation of the Department of Education.

Visits to Title I activities throughout the island were carried out mainly for program development and evaluation purposes. A breakdown by types of visits and their effect on local projects is presented below:

			:
Number of visits	Proportion	Purpose	Effect
188	22%	Observe and orient the develop- ment and implementation of Title I educational activities and services to public and non- public schools.	 Strengthening the program and solution of several immediate problems. Redefinition of project objectives in behavioral terms. Determination of feasibility of project procedures.
55	6.36%	Assess local personnel in the development of appropriate evaluation designs.	Identification of important variables, criteria and evaluative instruments or techniques in terms of specific project objectives.
578	67%	Gather data for evaluation purposes.	 Update the special project files already established in the Computer Center. Appraisal of impact of over all Title I Program on the whole school system. Preparation of evaluative reports. Approval of continuing activities was decided on the basis of additional criteria deventoped.
33	3.81%	Training local personnel in the administration of evaluative instruments.	Collection of more ac- curate and reliable data for evaluation purposes.
5	. 58%	Provide orientation to local supervisors on Title I benefits and improvements.	Proposals for continuing activities were improved.
5 ERIC	.58%	Organization and execution of a dissemination program.	Five television pro- gramswere organized. Brochures and booklets were produced.

3. The following are some of the changes made in our agency during the last three years which have had some effect in improving the quality of Title I projects and insuring proper participation of non-public school children.

Changes in the last three years	Effect
a. Organization of the Office of Educational Planning and Development of the Department of Education.	a. Needs and priorities were determined which helped allocate resources more effectively.
b. Creation of the Academic Advisory Committee.	 Integration of the programs, activities and services of the Department.
c. Strengthening of the Evaluation Program.	c. Assessment of the effects of individual Title I projects as well as the overall program
d. Establishment of a computerized information and evaluation system.	d. Availability of statistical an evaluation data which otherwis would be impossible to have.

4 A. In measuring the impact of Title I upon the educational achievement in Puerto Rico, an approach other than a comparison between participants and no-participants has been used, since almost all public pupils are participating in Title I activities to some degree. Title I extension, almost island wide, follows the assumption that limitations which seem to be imposed by socioeconomic factors would be overcome and more uniform progress allowed, since the majority of public school children come from the lowest socio-economic level.

An analysis of the data, available as part of the data base in the Puerto Rico Department of Education Information System as well as files maintained in the testing division, is hereby included.

Records of students tested in Spanish reading at the end of the 1966-67 school year were selected and summarized; then a comparable group listed at the end of the 1967-68 school year was chosen. Differences in mean scores between these two samples were analyzed for statistical significance using the PRESS program system.

While Title I projects form a composite of activities, it was expected that their presence would improve performance on standard achievement tests among students having had an additional year of exposure. To test this hypothesis, two samples were drawn from the educational data base and testing-program files using the following criteria:

on the island. About 25% of these were included in the data base and testing program files in 1966-67. While all grade levels were tested in Spanish reading achievement in 1966-67, this was not the case of the following year. The selection of records was limited to only those grade levels which were tested in two consecutive years. The 1966-67 sample was thus



reduced to grades 3, 6, 7 and 10. The number of records meeting these criteria was 32,954. The same procedure was followed in selecting the 1967-68 sample. A total of 29,532 records were selected.

Table 4 and Table 5 show the composition of the two samples by grade level, zone, socio-economic level (as determined by data on parental education and occupation through an adaptation of the Hollingshead "Two Factor (1)

Index of Social Position") and sex. They were more or less equivalent in socio-economic composition. The analysis of the data thus obtained has been divided into three main parts, namely:

- 1. Effect of Pre-school Education-Grade 3
- 2. Effect of Number of Years Exposed to Title I-Grades 3, 6, 7 and 10
- 3. Effect of Type of Organization-Grade 3

1. Effect of Pre-School Education-Grade 3

When the results in reading achievement of third graders for the year 1967-68 were analyzed in terms of type of pre-school instruction it was found that the highest mean scores were obtained by those students who have had kindergarten instruction followed by those having had Headstart. The lowest mean scores were obtained by those who did not have Kindergarten or Headstart. Table 6 shows that in all cases the differences in mean scores were highly significant.

When the results obtained by these same students, were compared taking into consideration their socio-economic level, it was found that those students with either Kindergarten or Headstart did better than those with no pre-school education, in all socio-economic levels. However, a close examination of Graph 1 reveals that higher gains are reflected by students in the low, medium low, and medium socio-economic levels having had the opportunity of preschool instruction. This is consistent with the results obtained the previous year as to the benefits derived by the culturally deprived children from preschool instruction.

(1) August B. Hollingshead. "Two Factor Index of Social Position", 1965 Yale Station, New Haven, Conn., 1957 (Mimeo. 12 pp.)

2. Effect of Number of Years Exposed to Title I-Grades 3, 6, 7 and 10 Spanish Reading Achievement Test Results

The third graders of 1967-68 earned consistently higher Spanish reading achievement test scores than the third graders of 1966-67, as shown in Table 7. The difference in means between years is statistically significant for both sexes with girls performing considerably better than boys each year.

Third graders in school year 1967-68 also scored higher than those of the previous year at all socio-economic levels, as shown in Table 8. The largest difference in mean scores between years falling at the highest of the 4 socio-economic levels is only significant at 5% and does not dectract from the overallgood results. Title I is aimed at the educationally deprived where differences in means between years are most significant. When the results of urban students were compared to those of rural in Table 9, rural students showed larger gains than urban between school years at all socio-economic levels. Urban and rural students, both had the largest increase at the highest socio-economic level, but with minor significance. The fact that the rural students showed larger gains is a considerable achievement, since more rural than urban students, as per Table 4, were at the lowest socio-economic level. This would tend to indicate that Title I has had the desired effect on the educationally deprived in grade 3.

Among 6th graders, mean scores by sex and socio-economic level were unavailable. Instead, the analysis was concentrated on comparisons between zones, school years, and districts. In all but 1 of the 11 districts tested in 1966-67 there was a significant difference in mean scores between urban and rural as shown in Table 10. In all but 3 of the same districts tested in 1967-68 there was a significant difference in mean scores between urban and rural students. This trend was not observed, however, in a comparison between years. While none of the urban differences were significant



here, 4 districts in the rural zone showed a gain.

While the differences between means by year are consistently higher in 1967-68 than those in 1966-67 for each district, in only 4 of the districts were they statistically significant as shown in Table 11.

Trends similar to those observed among third graders were also observed among seventh graders while among tenth graders the differences in the means between years were not statistically significant. The results are presented in Tables 12 to 15.

3. Effect of Type of Organization-Grade 3

The results in Spanish reading achievement obtained by the third graders in the sample confirms the results obtained last year in which for the first time there was direct objective evidence to verify that there is a close relation between time spent in school and attainment of basic skills. With the exception of students with no pre-school instruction attending interlocking (5 hour) program who did better than those attending single (six hour) program the mean reading scores increased according to the number of hours spent in school. If we disregard the variable of pre-school instruction and analyze the results by hours spent in school, as shown in Table 16, we find that in all cases there were highly significant differences between the means obtained by those having the benefits of more time in school with only one exception - there was no significant difference in the higher mean scores obtained by students attending school five hours and those attending six hours.

The results obtained by these same third graders in English reading achievement presented in Table 17 show the same trend. However, in this case the difference between the mean scores of students attending the six hour pregram was statistically significant when compared to those attending the five hour program. Thus the assumption of a close relation between time spent in school and better achievement is once more objectively verified.



SAMPLE COMPOSITION: NUMBER AND PERCENTAGE OF STUDENTS BY SCHOOL YEAR, GRADE LEVEL, ZONE, AND SOCIO - ECONOMIC LEVEL

	1 #	%	100	100	100	(001	100	100		100	100	100	100	700	TOTAL	Ç	100 100	700	100	0	700	100	100	100	100	. 100	100		TOTAL	TATOT OTAT
I	A11	N	4561	7153	11714	0	30/3	4353	7426		5773	2523	8296	ת 2	OTCC	32954	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	51/3	7.269	12436	ر در در در	2707	4408	7610	4173	2220	6393	3093		29532	624.86
V E	lg.	%	7	·	2 :	••	••	••	••	••	. 4		 E			•• ••	• • •		··		••	••	••	••	••	••	•• • ••	4	• ;	• ••	••
I C I E	Med. Hi	N		69	251		1	able			252	31	283	196	1		0 -	101	40 7.7	745			available		177	31	208	129			
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- E C	Medium	N	263	14.7	410		,	grade 6 no			516	82	298	7,83	r t		000	727	104 763	403		,	grade 6 r		382	65	7447	. 249	,		
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ပ	Low			22				a for		,	m	27	3(37	ì		õ	Ö	7.T	~			ta fo		33	26	30	31			
S 0	Med.	N	1623	1592	3215		!	Dat		1	1850	673	2523	1769	107		107	1670	1049	3004			Da		1351	584	1935	952			
	st	%	5 77	. 19	58:	••	••	Economic	••	••	: 947	: 09	50 :	 45	}	•• ••		ጎ ኒ	, ,	90	• 0	••	Economic	••	. 5	: 09	. 87	. 77	• •	• ••	••
	: Lowest	. N		: 4780		••		: Socio E	••			: 1514		: 24.61		••••			4/30				Socio-				3095	1353			
		Zone	Urban	Rural	Urban & Rural		orban E		Urban & Rural	•	Urban	Rural	Urban & Rural	IIrhan			11 th 12 th	D. Danie	ر د	urban & Kural	17.7.7.7.	חדח		Urban & Rural	Urban	Rural	Urban & Rural	Urban	•		••
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	Grade	Level	໌ຕາ			U)			ī	_			10) !		ť	ר			,رح	>			7			10			
•••	School:	Year:	: 1966 - 67:	••	ð.	••	••	••	••	**	••	••	••	••	•	••	.89 = 1961		•••	•	•••	••	••	••	••	••	••	• ••		• ••	••

ALL PERCENTAGES SHOWN ARE ROW PERCENTAGES

THE "ALL" CATEGORY INCLUDES STUDENTS OF THE FOUR SOCIO-ECONOMIC LEVELS SHOWN IN THE TABLE PLUS STUDENTS FOR WHOM NO SOCIO-ECONOMIC DATA WAS AVAILABLE.

SAMPLE COMPOSITION: NUMBER AND PERCENTAGE OF STUDENTS BY SCHOOL YEAR, GRADE LEVEL, AND SEX

TABLE 5

	:				SEX			
School	: Grade	: N	Tale :		Female			Both
Year	: Level	: N_	- % :	N		%_:	N	%
	•	:	:			:		
1966-67	: 3	: 60	76 - 52:		5638 -	48 :		11714 - 100
	: 6	:Sex d	ata for gra	de 6	not ava	ailable	9	7426 - 100
	: 7	: 4	055 - 49:		4241 -	51 :	•	8296 - 100
,	: 10	: 2	520 - 46:		2998 -	54:		5518 - 100
	:	:	:			:		
	:	:	:			:	Total	32954
	:	:						
	:	:	:					
1967-68	: ·3	: 6	495 - 52 :		5941 -	48 :		12436 - 100
•	: 6	:Sex da	ta for grad	de 6	not avai	lable		7610 - 100
•	: 7		141 - 49 :		3252 -			6393 - 100
/	: 10	: 13	308 - 42:		1785 -	58 :		3093 - 100
	:	:	•		•	:		
•	:	:	:			:	Total	29532
	•	•	•		•			
	•	•	•					
•	•	•	•			•	Grand	
	•	•	•				Total	62486
	•	•	•			•	TOLAI	94400

All percentages shown are row percentages

TABLE 6

ERIC Full Text Provided by ERIC

COMPARISON OF READING ACHIEVEMENT BY TYPE OF PRE-SCHOOL INSTRUCTION - GRADE 3, YEAR 1967-68

	Kindergarten	Kindergarten vs. Head Start	Difference in means
Z	948	1500	
Mean	60.83	56.35	
S.D.	19.10	20,12	4. 48**
٠	Kindergarten vs.	Kindergarten vs. No Kinder No Headstart	
Z	648	8027	
Mean	. 60.83	51.53	
S.D.	19,10	19.99	9.30**
	Headstart vs. No	Headstart vs. No Kinder No Headstart	
Z	1500	8027	
Mean	56.35	51,53	
S.D.	20.12		4.82**

**Significant at 1% level

TABLE 7

COMPARISON OF SPANISH READING ACHIEVEMENT BY YEAR AND SEX- GRADE 3

		:_			SEX			
School		:		:		:		: Difference in Means
Year		:	Male	•	Female	:	Both :	Between Sexes
		•		: .		:		
	N	:	6076	:	5638	:	11714	:
		:		:		:		:
1966-67	Mean	:	46.13	:	51.86	:	48.89	5.73 **
	S.D.	:	19.05	:	18.36	:	18.94	1
•		:		:		:		:
	N	:	6495	:	5941	:	12436 :	
		:		:		:		:
1967-68	Mean	:	49.26	:	55.13	;	52.06	5.87 **
	S. D.	:	20.63	:	19.37	:	20.25	
*		:		:		:	<u> </u>	
		:		:		:	:	
Difference	e in Mea	ns	3.13*	*:	3.27*	**	3.17 **;	•
between 3	years	:		:		:	•	
		•		•		:		

^{**} Significant at 1% level

INTERAMERICAN SERIES TEST, LEVEL 2

COMPARISON OF SPANISH READING ACHIEVEMENT BY YEAR AND SOCIO ECONOMIC LEVEL - GRADE 3

	A11 +	11714 48.89 18.94	12436 52.06 20.25	** 3.17
	Medium High	251 61.88 1 17.36 1	245 1 66.13 1 21.72 1	* * * * * * * * * * * * * * * * * * *
	Medium	410 56.97 18.76	463 - 59.80 59.80 18.48	2.83
-:l	. •	\$10 by ga ga	den den fan (tin den fan	Ctr be pa pe ge ge
Socio - Economic Level	Medium Low	3215 52.26 18.78	3604 55.49 19.66	** 3.23
Socio -	Low	6797 46.44 18.57	6966 49.47 20.02	*** 1 3.03 1
	-			en to pe pe pe
		N Mean S. D.	N Mean S. D.	
	•-			
	Year	1966-67	. 1967–68	Difference between Means

the students of the four socio-economic levels shown in the table plus those who did not have socio-All includes t economic data. |+

** Significant at 1% level

*Significant at 5% level

INTERAMERICAN SERIES TEST, LEVEL 2

ERIC Afull Teast Provided by ERIC

COMPARISON OF SPANISH READING ACHIEVEMENT BY YEAR, SOC-ECO. LEVEL AND ZONE - GRADE 3

URBAN ZONE

		1		
ing and a second a second and a second a second and a second a second and a second a second and a second and a second and a second a second a second a second and	A11	4561 54.04 18.62	5167 . 56.74 19.72	2.70**
ivel	Med. High	182 64.30 16.98	181 67.33 21.47	3.03
Socio - Economic Level	Medium	263 60.03 18.35	299 62.31 18.07	2.28
Socio -	Med. Low	1623 56.54 18.08	1955 59.42 18.64	2.88 ***
4	TOM	201/ 50.80 18.60	2230 53.34 20.06	2.54 **
	2	Mean 3 D	N Mean S D	Difference in Means
School Year		1966-67	1967-68	

		Low	Socio Med. Low	Socio - Economic Level ow Medium Me	vel Med. High	A11
1966-67	N	4780	1592	147	69	7153
	Mean	44.59	47.90	51.50	55.49	45.61
	S D	18.25	18.47	18.29	16:82	18.40
1967-68	N	4736	1649	164	64	7269
	Mean	47.65	50.83	55.22	62.77	48.74
	S D	19.75	19.82	18.41	22.24	19.96
Difference in Means	in Means	3.06 ***	2.93 rek	3.72	7.28*	3.13**

ZONE

RURAL

TABLE 10

COMPARISON OF SPANISH READING ACHIEVEMENT BY YEAR, ZONE AND SCHOOL DISTRICT . GRADE 6

Difference in Means Between Urban & Rural	5.59** 8.51**	6.23** 2.85**	10,42**	7.15** -0.23	. 5.50**	•	4	7.89**		5.90**	9,30**	6.10**	5.40**	7,70**	4.10**	1.00	1.20	. 1.80	2,60**	4*01*9		
S.D.	17.61 1 16.22 1	1 16.16 1	16.74	17.25	16.09 F	1 17.12 1	17.18	16.25	-	17.80	16.42	16.32	16.23	17.70 *	16.14	1 16.11	1 18,29 1	18.68	17.02	1 16.63 1		j ur:
Rural Zone Mean	48.22	1 50.18	48.75	43.44	1 53.10	49.00	1 47.13	50.38	-	50.10	46.00	1 50.90	46.50	1 51.90	45.70	1 47.40	1 55,70	1 51.30	1 52.00	\$ 54.00		-
Z	742 259	188	749	284 358	287	394	269	500	`	732	259	203	359	855	265	303	280	304	329	519	4408	•
S.D.	19.17 1	17.78		17.16 1		•		18,46	-	18.87	6	7.	7.	∞	6.	17.61	9	∞	6	8.03		June
one	5 5		•• •	ira (tas	-	-	-	-	-	-	-	-	-	••	bes	-	-	-	6 .79	••	•	-
Urban Zone Mean	1 53.81 1 52.69	1 56.41 1 49.11	1 59.17	49.80	1 56.60	52.93	, 55.38	1 58.27	-	1 56.00	1 55.30	1 57,00	1 51.90	1 59.60	49.80	48.40	1 56.90	1 53.10	1 54.60	60.10		1
zi •	; 538 ; 116	1 238 1 174	1 749	182	168	1 214	185	3073		1 588	132	1 248	138	668	1 206	\$ 256	1.156	189	185	205	3202	
ct/Region								M TOTAT.													TOTAL	
School District/Region	Arecibo-A Ciales-A	Vega Alta-A Barranduitas-C	Caguas=C	Comerio-C Cidra-C	Cabo Rojo-M	Isabela-M	an	San Sebastián-M		Arecibo-A	Ciales-A	Vega Alta-A	Barranquitas-C	Caguas-C	Comerio-C	Cidra-C	Cabo Rojo-M	Isabela-M	San German-M·	San Sebastián-M		,
Year		gue de	1966-67	• •			-	tee.	-	-	-		••	-		1967-68	-	•	-	C	•	

**Significant at 1% Level

Rural Differences	1.88*	1.82	0.72	0.24	3,15**	2.26	0.32	2.60	2,30	**68°7	3.62**	•	
6-	6- -	-	-	-	~	-	-	•	•••	•••	-	-	Ç aa
Urban Difference	2,19	2,61	0.59	2.79	0.43	0.79	1,55	0.30	0.17	0.78	1.83		
School District/Region	* Arecibo-A	Ciales-A	Vega Alta-A	* Barranquitas-C	* Caguas-C	Comerío-C	* Cidra-C	° Cabo Rojo~M	* Isabela-M	' San Sebastián-M	San German-M	-	-
Difference in Means between	years.1966-67	and 1967-68								v.			

**Significant at 1% Level

DEPARTMENT OF EDUCATION TEST, LEVEL 3

TABLE 11

COMPARISON OF SPANISH READING ACHIEVEMENT BY SCHOOL DISTRICT AND YEAR - GRADE 6

	Difference between Neans	2,13**	2.29	0.64	0.74	1.89	0.92	1.27	1.74	1,62	2,42,3	2.68				
		-	-	9-1		-	-	- '	\$50.	•	-			-	-	•
	S.D.	18.53	18.04	17,41	16.89	18,65	16,82	16.73	18.91	18.77	17,97	17.26	,			
	-	-	-	-	-	<u>-</u>	-	4 0=	-		-	-		-	-	-
ar 1967-68	Mean	52.70	49.10	54,30	48.00	55.85	47.90	47.50		52.00	52.90	€5.70				
Year	-	-	(-	6- -	9 41	-	,- -	>-	•••		•		••	-	(**
	Zi	1320	39 <u>1</u>	451	497	1754	559	471	436	493	514	724	7610			
	r~	-	-	-	-	84	-	•	•	5-		-			-	-
	S.D.	18.49	16.75	17.36	17.78	18.57	17.27	17,37	17.68	18.07	17,93	17,41				
	•	-	•	-	-	•	-	-	-	-	***	-		-	-	~ .
Year 1966-67	Mean	50.57	46.81	53.66	47.26	53.96	46.98	46.23	54.39	50.38	50.48	53.02				
Ye	÷	-	-	-	-	-	-	-	-	-	_	-		-	•-	-
,.	ZĮ	1280	375	426	497	1498	919	466	455	809	454	751	7426			
	-	9 10	F	•	_	•-	-	-	-	•-	•••	_		-	-	-
ì	strict												TOTAT.			
	School District	Arecibo	Ciales	Vega Alta	Barranduitas	Caguas	Cidra	Comerio	Cabo Roic	Isabela	San Germân	San Sebastian			-	

**Significant at 1% level

DEPARTMENT OF EDUCATION TEST, LEVEL 3

ERIC"

COMPARISON OF SPANISH READING ACHIEVEMENT BY YEAR, ZONE AND SEX - GRADE 7,

							, , , ,		
		1967-68	4173 41.36 16.22) k k	2220 37.21 13.51	***	6393 39.92	15.46	**!
	A11	1966-67	5773 39.77 15.42	1.59**	2523 34.67 13.02	2.54**	8296 38.22	14.92	1.70**
	Female :	1967-68	2140 42.50 16.04	1.69**	1112 39.19 13.38	3.20**	3252 41.37	15.26	2.02**
	Fen	1966-67	2954 40.81 15.41	1.6	1287 35.99 13.49	3.2	4241 39.35	15.02	2.0
Sex									
03 1	••	1967-68	2033 40.16 16.31	v	1108 35.22 13.36	16	3141 38.42	15.51	Ta
	Ma1e	1966-67	2819 38.67 15.36	1.49**	1236 33.30 12.37	1.92**	4055 37.03	14.72	1.39**
			N Mean S. D.	Difference bet. Means	N Mean S. D.	Difference : bet. Means :	N Mean	S. D.	Difference ; bet. Means ;
		Zone	Urban	c	Rura1		Urban	Rural	·

** Significant al 1% level INTERAMERICAN SERIES TEST - LEVEL 4

TABLE 13
COMPARISON OF SPANISH READING ACHIEVEMENT BY YEAR, ZONE AND SOCIO

Socio - Economic Level

Zone	•	Low		Mediu	m Low	
	-l i	1966-67	1967-68	1966-67	1967-68	1966-6
	N	2648	1742	1850	1351	516
Urban	Mean	37.28	37.83	41.42	43.22	44.53
•	S. D.	14.16	14.41	15.74	16.16	17.09
	Difference bet. Means	0.	55	1.8	O***	
	N	1514 .	1353	673	584	82
	Mean	33.70	36.31	36.07	38.85	39.05
Rural	S. D.	12.21	13.13	14.01	13.86	15.51
	Difference bet. Means	2.	6 <u>]</u> **	2.7	8**	
	N	4162	3095	2523	1935	598
Urban	Mean	35.97	37.16	39.99	41.90	43.78
and Rural	S. D.	13.60	13.89	15.48	15.62	16.98
	Difference bet. Means	1.1	9**	1.91	चे र मेर	
						

** Significant at 1% level
INTERAMERICAN SERIES TEST - LEVEL 2

TABLE 13

CHIEVEMENT BY YEAR, ZONE AND SOCIO-ECONOMIC LEVEL - GRADE 7

Socio - Economic Level

		20	1.4	Mod	ium High	۵	11
Medium			lium 1067-68	, 1966-67		1966-67	1967-68
1966-67	1967-68	1966-67	1967-68 382	252	177	5773	4173
1850	1351	516	302	2.54	Jan 9 9		•
41.42	43.22	44.53	47.97	49.19	, 53.99	39.77	41.36
15.74	16.16	17.09	18.31	16.83	19.16	15.42	16.22
1.80	がっ か	3.4	(₄	4.	80**	i.59	9**
673	. 584	82	65	31	31	2523	2220
36 . 07	38.85	39.05	39.82	47.81	50.81	34.67	37.21
14.01	13.86	15.51	14.85	15.61	15.31	13.02	13.51
2.78	}****	0.	77	3.0	00	2.54	**
2523	1935	598	447	283	208	8296	6393
39.99	41.90	43.78	46.78	49.04	53.51	38.22	39.92
15.48 ·	15.62	16.98	18.07	16.68	18.64	14.92	15.46
. 1.91	icic	3.0	00%%	4.4	7%%	1.70*	**

TABLE 14

ERIC*

COMPARISON OF SPANISH READING ACHIEVEMENT BY YEAR AND SEX - GRADE 10

SEX

	Male		•	Female	Both	
	/0-004T	195/-68	1966-67	1967-68	1966-67	1967-68
N	2520	1308	2998	1785	5518	3093
Mean	44.57	43.99	44.38	44.80	44.47	44.45
S. D.	15.18	15.73	14.42	15.61	14.77	15.67
Difference bet. Means	0.58		0.42	7	-0.02	.5

INTERAMERICAN SERIES - LEVEL 5

TABLE 15

COMPARISON OF SPANISH READING ACHIEVEMENT BY YEAR AND SOCIO-ECONOMIC LEVEL - GRADE 10

Socio - Economic Level

	T.OW.		Medium Low	, wo.	Medium		Medium High	174	A11	1
•	1966-67	1967-68	1966-67	1967-68	1966-67	1967-68	196667	- 1	1967-68 1966-67	196/-68
 	2461	1353	1769	952	483	249	196	129	5518	3093
Mean	42.96	41.16	45.43	97.95	48.37	51.23	52. 63	58.09	44.47	44.45
s. D.	14.39	13.65	14.78	16.19	15.52	16.76	16.12	18.82	14.77	15.67
Difference between Means	-1.80***	**	1.03		2.86*	36		5.46**	ĭ	-0.02

^{**} Significant at 1% level * Significant at 5% level

INTERAMERICIN SERIES, LEVEL 5

TABLE 16

ERIC AFUILTENT Provided by ERIC

COMPARISON OF SPANISH READING ACHIEVEMENT BY TYPE OF SCHOOL ORGANIZATION - GRADE 3 - YEAR 1967-68

Differences in Means -0.95	5.08**	, 4×86°L		6, 03**				2.85**
5 hours 2177 54.71 19.82	4 hours 940 48.68 18.58	3 hours 1906 45.83 19.76	4 hours	940 48.68 18.58	3 hours	1906 45.83 19.76	3 hours	1906 45.83 19.76
Mean S.D.	Mean S.D.	Mean S.D.	n dan diri	Mean S.D.	· ••• ••	Mean S.D.	Çun gu	Mean S.D.
	6 hours vs. N 6255 Mean 53:76 S. D. 20.31		5 hours vs.	N 2177 Mean 54.71 S.D. 19.82			4 hours vs.	N 940 Mean 48.68 S.D. 18.58
		- · · · · · · · · · · · · · · · · · · ·		⊠ W	•			Ϋ́ S

**Significant at 1% level

INTERAMERICAN SERIES - LEVEL 2

ERIC CALLED TO SERVE THE S

COMPARISON OF ENGLISH READING ACHIEVEMENT BY TYPE OF SCHOOL ORGANIZATION - GRADE 3 - YEAR 1967-68

Difference in Means	** Co T		3.51**		8.16**		2.14%		6.79**	**09 'Y		
5 hours	N 2118 Mean 79.59 S.D. 25.83	4 hours	N 850 Mean 77.45 S.D. 19.47	3 hours	N 1826 Mean 72.80 S.D. 21.25	4 hours	N 850 Mean 77.45 S.D. 19.47	3 hours	N 1826 Mean 72.80 S.D. 21.25		S.D. 21.25	
(m. 6- 61	e des des tre de	6 hours vs.	N 6687 Mean 80.96 S.D. 22.71	n gran gr	a gan pan ban Kan	5 hours vs.	N 2118 " Mean 79.59 " S.D. 25.83			4 hours vs. 1 850	Mean //.45 S.D. 19.47	

*Significant at 1% level

DEPARTMENT OF EDUCATION TEST - GRADES 1 - 3

GRAPH 1

COMPARISON OF MEAN SCORES OBTAINED BY THIRD GRADE STUDENTS IN THE TEST OF READING IN SPANISH BY SOCIOECONOMIC LEVEL AND PRE-SCHOOL INSTRUCTION - TITLE I SAMPLE MARCH 19.68

-					. کارنگ میدان ایاز پیراندان میلادی
Medium High					
Medium		Kindergarten	Headstart	No Kinder	No Headstart
Medium Low					
Low				enwynd dinn 1961 Made ar	
Mean Scores	70 58 64 64 60 60 56 75	52	50	48	45

- 4. B Common characteristics of those projects which, in our judgement, have been most effective in improving educational achievement in Puerto Rico, are the provisions under these projects for:
 - 1. increase in actual number of hours of instruction
 - 2. increased attention to remedial and individualized instruction
 - 3. increased attention to children of pre-school to primary level
 - 4. increase in teaching personnel
 - 5. increased availability of audiovisual aids, books, and other materials and equipment.
- 4. C No evidence available.
- 5. The Title I program has had some effects on the administrative structure and educational practices in our educational system. Significant among these are the following:
 - a. Increased awareness among school people of need for curriculum diversification and adaptation to needs of educationally deprived children. Greater efforts are being made in educational planning so as to develop procedures which will allow the Department to evaluate actual or potential educational tactics (i. e. various combinations of different teaching techniques and teaching equipment, curricula, physical facilities, forms of school organization, personnel specialties and qualifications) upon optimal and maximal educational outputs.
 - b. The Information and Evaluation System initially developed to meet the evaluation requirements of Title I projects, is now the central tool in the Department's scheme for planning. This system provides historical information and projections concerning the present and future condi-



- tions of pupils, staff personnel, facilities, programs and finances.
- c. Massive programs of in-service teacher training have been developed. These programs include training in techniques and special training in specific subject matters (English, Language Arts, Sciences, Mathematics) and other means of improving teaching quality.
- d. The expansion and diversification of educational services:

 curriculum enrichment, regional curriculum development

 laboratories, local centers for study and supervision for

 in-service teachers; the pre-school programs; programs

 offering cultural and recreational experiences, programs

 for the retarded and the gifted child, programs for reco
 vering high school dropouts.
- e. Quantitative improvements through an increase in teaching hours. This involved transportation services, classroom construction, recruitment of substitute teachers and the use of specialist teachers (mostly in English) to offer a fourth hour of instruction daily in schools organized in dobule sessions.
- f. Development of programs designed to provide general improvements in teaching conditions, through the purchase of new materials and equipment, innovations in teaching technology, classroom design and organization, etc.
- g. Amendments in the regulations for personnel contracting have been introduced.
- h. Introduction of the teacher-aide classification in the public school system.

6. Additional Efforts to Help the Disadvantaged.

State funds have been used to augment the following Title I activities:

- 1. The Fourth Hour Program to offer daily an additional hour of instruction in elementary schools organized in three hour double sessions. Twenty five additional teaching positions were assigned representing a cost of \$81,375.00. This is approximately 10% of the Title I appropriation for this program.
- 2. The Library program for rural schools to offer library services to rural deprived children. Ten additional positions of librarians were assigned representing a cost of \$32,550.00. This is approximately 10% of the Title I appropriation.
- 3. The Educational Opportunity Center to provide educational opportunities for dropout students ages 17-21 received an additional appropriation of \$125,000.00 from State funds. This is 17% of the Title I appropriation.
- 4. Transportation Program to offer transportation services for rural children attending urban schools. Additional state funds were provided for transportation representing approximately 53% of the appropriation for this activity under Area I of the Title I program.
- 7. One of the activities under Project I, The Improvement of Sub Standard Conditions, is the financial aid to private schools for the acquisition of materials and equipment. Eleven private schools with an approximate enrollment of 6,987 students were included. In all of these schools the materials and equipment thus purchased were used as part of their regular teaching program and in some cases for the enrichment of recreational cultural programs.



Visits were planned and realized to these schools to supervise services provided to their deprived children. New services were planned with and among Title I staff and non-public school officials during these visits as well as during interviews held in the Title I Office. These officials also attended meetings for planning and evaluation purposes.

There were no changes in legal interpretations in Puerto Rico as regards financial aid to private schools.

8. Teacher - teacher aide training programs were conducted mainly as part of the activity under Area I which provides for the training and use of teacher aides. To some extent they were also conducted as part of two other programs, the Pre-School Education program and the Team Teaching program.

In general the training programs were organized as workshops or training seminars in which participants get orientation or had the opportunity for practical application regarding the following aspects:

- a) individualized instruction
- b) independent study skills
- c) preparation of educational materials
- d) use of audio-visual aids
- e) curriculum content
- f) the teaching of Art
- g) new approaches to teaching

The most common types of activities held were lectures, demonstration classes, discussion group meetings and actual workshop sessions. The number of participants as reported by persons in charge of activities is indicated below:

Teacher Aide Training Program - 242

Pre-School Education Program - 230

Team Teaching Program -

9. In the third year of Title I, there has been great progress in the involvement of parents and other members of the community in various activities carried out under our four major Title I projects. Both parents and other members of the community have been involved in varying degree in the planning, coordination, operation, evaluation and dissemination of some of the activities or subprojects carried out under each project. The following tables describe the nature and extent of both parent and community involvement as expressed by leaders of various Title I activities.

Table 18

Extent of Parent and Community Involvement in Title I Program

	Total number	l l	of activities		
Programs	of activities	Parent i	lnvolvement	Community	involvement
I. Improvement of sub-standard conditions	24	11	% 46	10	% 42
Collar croffs	1		.	_ 	
II. Improvement of academic achievement	17	12	70	11	6.5
III. Curriculum enrichment	13	6	46	4	31
IV. Teacher training	<u>10</u>	_3	30	_3	<u>30</u>
Tota1	64	32	50	28	44

Analyzing this table we find that parents have become involved in fifty per cent (50%) of Title I activities and other members of the community in forty-four per cent (44%). Considering that some of the activities developed are of such a nature that parent or community involvement would not be appropriate then we might say that the extent of both parent and community involvement in Title I activities for the year 1967-68 has been extremely satisfactory.



NATURE OF PARENT AND COMMUNITY INVOLVEMENT BY TYPE OF INVOLVEMENT

		> 1		3	1	•	
	nation	Community	9	vo	1	. 8	1.5
	Dissemiņation	Parent	57	pa-	2	2	24
	ation	Parent Community	•	. 60	9	3	9
	Evaluation	Parent		. 9	· •I	2	16
ement	Operation	Community	Ŋ	80	2	2	17
of Involve	Oper	Parent	6	10			25
Number of Activities by Type of Involvement	Coordination	Community	7	2		2	œ
f Activit	Coordi	Parent	6	9			19
Number o	ning	Community	က	33	l	2	∞
	Planning	Parent	9	4	• 9		
	F	rrogram	I. Improvement of sub- standard condition	II. Improvement of aca- denic achievement	III. Curriculum enrich- ment	IV. Teacher training	

As seen in Table 19 the type of parent involvement as well as that of other members of the community has been most noticeable in the operational and dissemination phase of the activities. To a lesser extent both parents and other members of the community have become involved in the planning, coordination and even in the evaluation of various of the Title I activities.

In a questionnaire filled in by all school directores in the 21 school district Title I sample, one hundred and forty two (142) reported that in their opinion parents now participate more in school activities. This number represents 69% of the school directors included in the sample who reported that some kind of Title I activity was being developed in their schools. Approximately 61% reported that other members of the community participated more in school activities than in previous years. (prior to Title I program).

Of these 205 school directors only one (1) reported that there was less parent involvement at present than in previous years; only two (2) reported there was less community involvement.

The following table summarizes the opinion of 205 school directors on parent and community involvement.

Table 20

Question: Have you noticed any changes in parent and community involvement in school activities due to Title I activities?

Degree of involvement	Parents	Community
More participation Same participation Less participation Unable to appreciate change	142 30 1 32	127 45 2 31

In general, parent and community involvement has been most outstanding in the pre-school education programs including the planning, organization and operation of kindergartens and Headstart programs. The following are just a few cases of the many



which we consider outstanding examples of such participation:

- 1. In the Manuel Corchado School at the Isabela school district the parents assumed full responsibility for the preparation of the area for outdoor activities. They not only contributed with the money for the needed equipment but they actually worked in the preparation of the area and some of them built part of the equipment.
- 2. Parents in the school at Sierra Bayamón Urbanization and at Public Housing Project Falín Torrench, both at Bayamón school district, have provided most of the equipment for the kindergarten rooms.
- 3. In the Arecibo school region parents and other members of the community have contributed to a great extent with the furniture and equipment needed for the Home Area in the kindergarten rooms; they have helped in the repairing of school equipment and in the preparation of the facilities for the outdoor activities. They have become also greatly involved in trying to improve attitudes, habits and health of kindergarten and Headstart children.

Outstanding examples of parent and community involvement in other types of Title I activities:

- 1. At Magueyes Second Unit in the Barceloneta school district the owner of an upholstery shop cooperated actively in the rehabilitation of a group of mentally retarded children. These children, under the direction of their teacher worked in the shop every school day for one hour period. They learned to sand and make minor repairs in furniture and some of then learned certain phases of upholstery work.
- 2. Parents and other members of the community in the Arecibo School

 Region have given free transportation to deprived students in order



vities. They have also cooperated in the organization of festivals, exhibitions and shows bringing in refreshments and food, providing the physical facilities and contributing with prizes. This type of cooperation has been almost island wide.

- 3. In the Mayaguez School region some municipalities have bought buses which they rent at moderate price to the Program of School Transportation thus allowing a greater number of economically deprived students to receive the benefits of this service.
- 4. The Municipal Government at Las Marías have cooperated with the Centers of Study and Supervision providing the physical facilities for conducting the classes and a warehouse for books and materials.
- 5. The Juncos Lions Club contributed with money for buying additional books for the Rural Mobile Library in the Juncos school district.
- 6. Distinguished members of the community have actively participated in some of the cultural activities offered by the Cultural and Recreational Program giving conferences, art shows, recitals, etc. Parents have voluntarily helped the teachers in taking care of groups of students on trips and excursions and preparing refreshments and different kinds of foods for various activities.