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AGRICULTURAL DEVELOPMENT

W. E. Beach



April 1965 to June 1973

625
I
TEX. A&M

Texas A&M University
participation

FINAL REPORT
of
Technical Assistance
to the
Government of the Dominican Republic
Secretariat of Agriculture
Santo Domingo, Dominican Republic

Contract Number AID/1a-268, Dominican Republic

April 1, 1965 through June 30, 1973

Government of the United States
Agency for International Development
Washington, D. C. 20523

and

Texas A&M University
International Programs
College Station, Texas 77843

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August, 1973

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SUMMARY

Texas A&M University agricultural development activities in the Dominican Republic under contract AID/1a-268 began April 1, 1965 and extended through June 30, 1973. The objectives of the technical assistance contract were to increase food production and income and to establish the institutions necessary to maintain continued agricultural development.

Over the eight year period of the contract the food production index increased from 104 to 147. Rice production increased from 178,000 metric tons in 1966 to 214,000 metric tons in 1972. During the same period commercial broiler production increased from 4.4 million to 18.5 million birds. Beef and veal production increased from 25,000 metric tons to 37,000 metric tons. The total value of agricultural production at 1962 constant prices increased from RD \$245 million in 1966 to RD \$324 million in 1972.

To maintain the established development momentum, Secretariat of Agriculture activities were decentralized into regions each providing the appropriate research, extension, credit and other staff services for the development program within the area. Institutions for planning, marketing, price stabilization, credit, education, etc. were established or improved. More than 100 professional agriculturalists were trained on campus and placed in positions of authority and responsibility throughout the agricultural sector. Approximately 75 agricultural policy makers observed and studied modern agriculture methods in Texas and other areas of the United States. A training center established at the National Research Center offers short course training to Secretariat and other development staff.

PURPOSE OF REPORT

This report will present a resume of major objectives, activities and accomplishments of the AID/Texas A&M University Contract (AID/1a-268) during the period April 1, 1965 through June 30, 1973 and offer comments and recommendations for future programs.

INTRODUCTION

The thirty years of Trujillo dictatorship ending in 1961 was followed by unrest and instability which left the Dominican Republic in an unfavorable economic and social situation. In 1964 the United States began a technical assistance program in the Dominican Republic. Immediately thereafter, the revolution of 1965 further left the country with virtually no organizations conducive to development. Both public and private institutions were disorganized, politically oriented and lacking in technology. The few investments in natural, capital and human resources were in various unrelated programs and projects. Little consideration was being given to development of plans and priorities and their potential impacts on the economic and social growth of the country.

Low levels of general education in the country caused a severe shortage of technicians in agriculture and related fields. Food production levels from 1960 to 1965 were steady, however population increased about 3.5 percent per year. By the mid-60's a serious food shortage resulted.

The U. S. Government felt that the natural resources and the available labor force could be combined with the proper technology to make the country self-sufficient in food and fiber.

This was the situation on April 1, 1965, when the AID/Texas A&M University Contract (AID/1a-268) was signed and Texas A&M staff members began work in the Dominican Republic.

OBJECTIVES

The AID/Texas A&M University contract had two primary objectives. The first was to assist the Dominican government in planning and developing an action program to bring about a substantial increase in agricultural production and income throughout the country. The second was assistance in training and utilizing Dominican personnel to plan and develop agencies and institutions necessary to provide continuing agricultural development.

ACCOMPLISHMENTS

The success and accomplishments of what might be called Phase I of the agricultural development program of the Dominican Republic can be illustrated by the overall increase in agricultural production. The food production index increased from 104 in 1967 to 147 in 1973. The total value of agricultural production at 1962 constant prices increased from RD \$245 million in 1966 to RD \$324 million in 1972. Rice production increased from 178,000 metric tons in 1966 to 214,000 metric tons in 1972. Grain sorghum production, introduced in 1966, grew to 18,000 metric tons by 1972. Commercial broiler production increased from 4.4 million birds in 1966 to 18.5 million birds in 1972. Beef and veal production grew from an average of approximately 25,000 metric tons prior to 1967 to 37,000 metric tons in 1972. Beef exports grew from RD \$0.2 million in 1966 to RD \$6.6 million in 1972. Exports of nontraditional fruits and vegetables increased from RD \$1.8 million in 1966 to RD \$10.6 million in 1972. (See

Appendix I for more detailed production and export data.)

These accomplishments were obtained by providing help to the Dominican Secretariat of Agriculture in several areas of emphasis.

1. Assistance in establishing production priorities and development objectives.

Production priorities were determined by immediate surveys of the food needs of the country and selecting those food crops which were normally produced in the country but which were in short supply. Another consideration was the availability of improved varieties and technical production information from adjacent or similar areas. The immediate development objectives included increased food production and improved distribution of available food supplies.

2. Assistance in the preparation of a long-range agricultural development plan including comprehensive production and management guidelines.

All agencies of the government concerned with agricultural development planning or activities were drawn together and involved by the TAMU staff in the development of the plan. This undertaking provided opportunities for close coordination and exchange of ideas and information among the research, extension, community development, credit, marketing and supply organizations. From this unified effort also came production and management guidelines which were acceptable to and used by all agencies involved.

The resulting operations plan provided for decentralization of the Secretariat of Agriculture and its related developmental agencies by establishment of regional centers throughout the country.

3. Assistance to the Secretariat in the implementation of the long-range agricultural development plan by providing counterparts to advise Dominican

technicians in planning, developing and carrying out their individual program assignments.

Texas A&M University furnished 45 resident advisors to the Secretariat during the period April 1965 through June 1973. During 1967, the resident team included 30 TAMU staff members in various fields of agriculture. (See Appendix II for a complete resident staff listing.)

Intensive Spanish language training and cultural orientation was provided on campus to new staff members prior to their resident assignment in the Dominican Republic. This training proved to be exceptionally helpful to the technician and his family in their adjustment to the new environment and work assignment.

The University supplemented the resident staff with campus backstopping and by providing a total of 64 short-term staff members to assist with special problems in the country. (See Appendix III for complete listing.)

4. Assistance in developing staff and facilities to carry out an effective agricultural research and extension program within the country. This included a program of adaptive research for field and horticultural crops and production practices based upon immediately evident as well as future needs of Dominican agriculture.

In accordance with the long-range development plan a program of decentralization of Secretariat activities was carried out. To better reach the farmer with information and assistance, seven regional offices were developed. Each regional office included sufficient area for the establishment of adaptive research and for result demonstration areas. Extension, research and other supporting staff to carry out a development program for the region were assigned to each headquarters. Substations and offices were established within the

population centers or specialized crop areas of each region. (See Appendix IV.)

A central research station was established at San Cristobal. However, the majority of the work in specific crops was done at specialized stations located in the major production areas.

Each region as well as some of the larger urban communities were encouraged to organize and join with the Secretariat in its planning processes. Invitation and encouragement to participate in these activities resulted in the growth of a number of development associations and other professional groups. It also assured development planning and programming which included inputs from the rural and urban areas and other concerned public groups. Some of these institutions and their locations are shown in Appendix V.

5. Assistance in training of Secretariat and other personnel (including lay agricultural leaders) concerned with accelerated agricultural development. Included in this training were:

a. More than 100 outstanding young men, members of the staff of the Secretariat and others with an agricultural background, were sent to the TAMU campus to study for the Bachelor of Science degree in agriculture. The USAID scholarship program was supplemented by another USAID funded program administered jointly by the Dominican Educational Credit Foundation and Texas A&M University. Additional students sponsored by other institutions or private funding also studied at Texas A&M and/or other U. S. universities at the Bachelor and Master level.

All students studying technical agriculture abroad were encouraged to return to the Dominican Republic between their junior and senior years to participate in a summer of special studies and experiences related to his area of interest. This program gave the student an opportunity to see what was

going on in agriculture in his country and reduced and softened the reentry after graduation. Masters level students were assisted in returning to collect data, make special studies or do research related to their study program. This gave the student a closer relationship between his studies and the development problems in his country. Upon graduation and return to the Dominican Republic, all graduates participated for up to six months in a special reorientation and placement program. This program included orientation to the current conditions in agriculture and assignment to a job commensurate with his preparation, abilities and desires. During this six month period, the graduate had the opportunity to readjust to his country and to decide whether he wanted to work in government, in education or in the private sector. It also gave prospective employers a chance to observe and become acquainted with the returnee.

The summer study program for undergraduates, the data collection program for graduates and the orientation-placement programs were supported financially by USAID and the Government of the Dominican Republic. These programs were directed and coordinated by TAMU and the Secretariat staff.

Contract and Educational Credit Foundation sponsored students were selected after consideration of agricultural interests and background, leadership potential and demonstrated academic ability. The majority of the students were enrolled for 14 weeks of intensive English language training and orientation prior to enrollment for regular academic studies. See Appendix VI for a listing of the students trained at Texas A&M under the various programs and their present employment location.

b. Seventy-four leaders from government and private industry traveled to the United States to observe and study modern agricultural practices.

c. A training center was established at the National Agricultural

Research Center at San Cristobal to provide short-course training in all fields of agriculture. This facility has been in almost constant use by agriculture and other agencies since it was opened in 1968.

6. Assistance in the preparation of a study of the various aspects of agricultural marketing and its institutionally related activities within the Dominican Republic.

A marketing survey team from the campus spent three months in the country in 1966 studying all facets of agricultural marketing. More in-depth studies of fruit and vegetable marketing with the country, relative to the Caribbean area, were made in the following years.

7. Assistance with procurement of commodities to be purchased under various AID investment agreements. Secretariat personnel were trained in accepted purchasing procedures, writing specifications, obtaining and reviewing bids, preparation of purchase orders and arranging letters of credit.

The Purchasing and Stores Department of Texas A&M University worked with Secretariat personnel in developing their purchasing department and its procedures. Necessary equipment and supplies were purchased using the prescribed methods.

8. Assistance in developing agricultural policy guidelines through economic studies and statistical records of agricultural production and income.

The economics advisors worked closely with both the Secretariat and Central Government Planning Office in gathering statistical information and economic studies. They also advised these offices in the use and interpretation of the studies as guides in policy development.

9. Assistance to the Dominican Secretariat of Education to upgrade vocational agricultural educational institutions.

Three resident advisors assisted by short-term staff from the campus worked with the existing high schools offering vocational training in agriculture in an effort to modernize and upgrade curriculum and course content. Courses in technical agriculture were also added to the curriculum of two other high schools as well as introduced in the studies of several rural primary schools.

10. Assistance in the planning and/or development of other supporting institutions.

Texas A&M University advisors worked in varying degrees with the Price Stabilization Institute, The National Export Marketing Organization, The Agrarian Institute, The National Planning Office, Agricultural Credit, Agricultural Statistics, The National University, The Superior Agricultural Institute and other related institutions.

RECOMMENDATIONS FOR THE FUTURE

It is recommended that a second phase of AID and Texas A&M University technical assistance to agricultural development in the Dominican Republic is essential to the continued realization of the benefits gained from the first. The specific program envisioned would:

1. Provide the professional, technological and scientific services to support the cadre of professional agriculturists now providing the leadership to the Dominican Republic Agricultural Development Program to the point where the program can maintain its dynamism without outside help.

2. Provide general scientific and professional agricultural support in the form of consultation, special training, etc. to the total agricultural development program, when needs arise.

3. Continue the professional manpower training program now being provided under the Dominican Republic Educational Credit Foundation, Inc. and assist local universities in developing master degree level programs.

4. Assist the Dominicans, the United States and the multilateral agencies (where appropriate) in conducting an agricultural sector analysis for use as an agricultural development planning instrument.

5. Assist the Dominican Republic institutions concerned with agricultural development, both public and private, in their individual development programs, including the coordination of their programs with each other and with the Agricultural Secretariat.

6. Assist USAID/DR and GODR in improving the coordination of the efforts of all the international agricultural development agencies operating in the Dominican Republic. A specific aim under this heading would be to develop a workable pattern of collaboration and coordination among all such agencies, with appropriate Dominican institutions and with Texas A&M University.

7. Create a viable pattern of long-range communication and cooperation between Dominican Republic and Texas A&M University agricultural research workers.

8. Bring about a better focus on the Dominican agricultural development efforts of the United States-supported exchange and research program now in existence and a fuller utilization of these programs for this purpose.

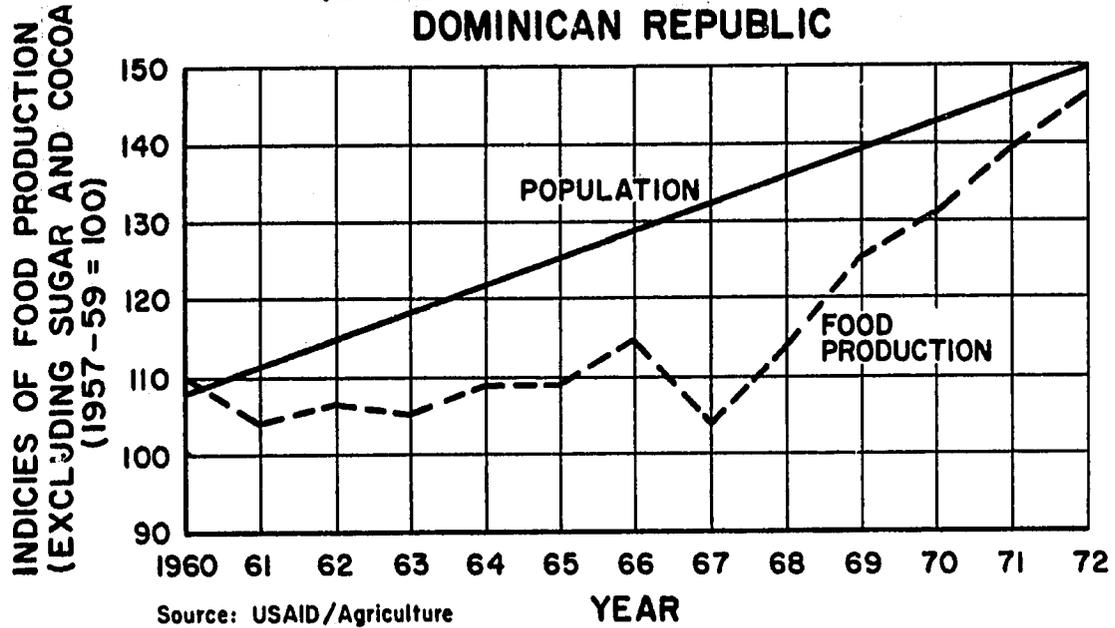
The team in the Dominican Republic would be small. It should be not less than two full-time people, however, five would be the optimum number. The full-time staff members would be experienced professionals with specializations in one of the major agricultural disciplines. This team would be supported by

short-term assignments of senior agricultural scientists and specialists from the Texas A&M University campus, including all of its affiliates and various area research and extension centers throughout the state.

APPENDIX I

PRODUCTION AND EXPORT DATA

**POPULATION AND FOOD PRODUCTION
(EXCLUDING SUGAR AND COCOA)
DOMINICAN REPUBLIC**



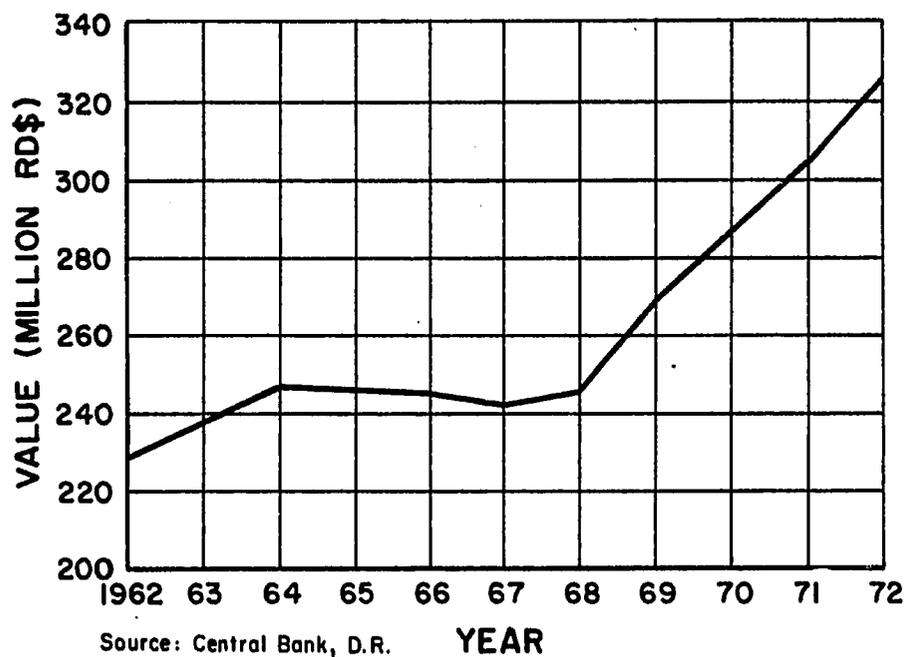
INDEX OF POPULATION

1960	108
1961	110
1962	114
1963	117
1964	120
1965	124
1966	128
1967	131
1968	135
1969	138
1970	143
1971	148
1972	152

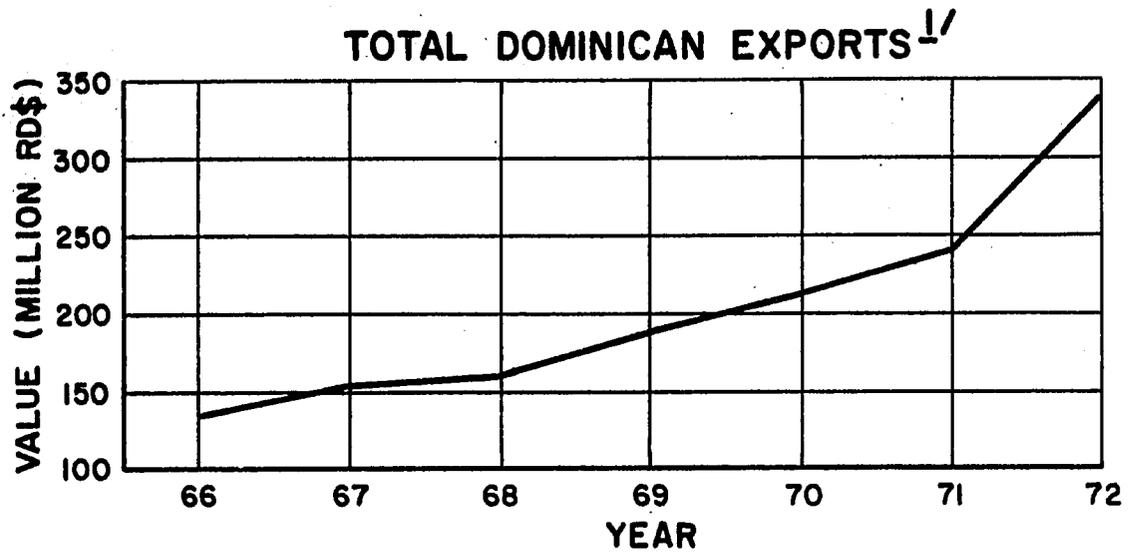
INDICES OF FOOD PRODUCTION

1960	110
1961	104
1962	107
1963	105
1964	109
1965	109
1966	115
1967	104
1968	114
1969	126
1970	132
1971	140
1972	147

**TOTAL VALUE AGRICULTURAL PRODUCTION
(CONSTANT 1962 PRICES)
DOMINICAN REPUBLIC**



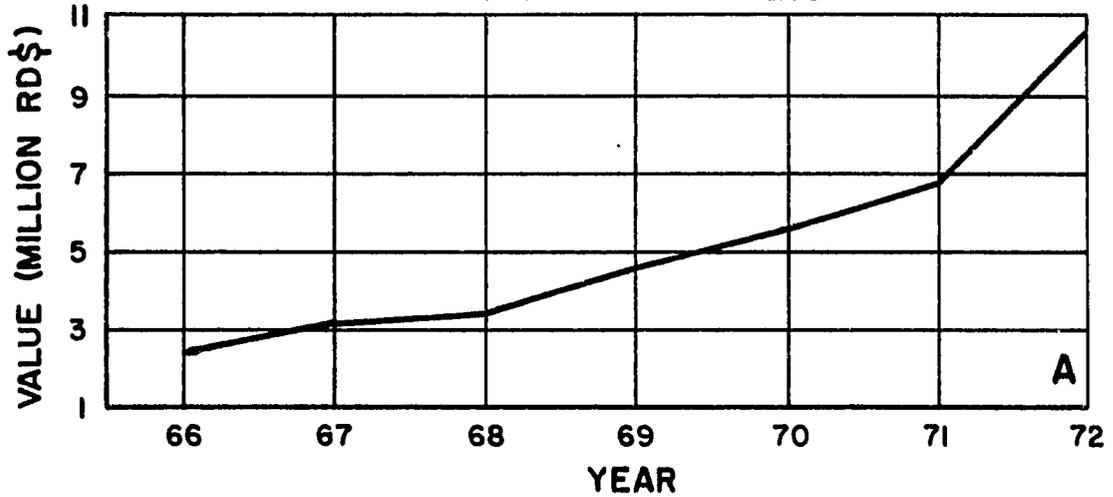
1962	228.9
1964	246.0
1966	245.0
1967	242.0
1968	245.0
1969	268.6
1970	285.4
1971	302.9
1972	324.0



<u>YEAR</u>	<u>VALUE (MILLION RD\$)</u>
1966	137.5
1967	156.6
1968	163.5
1969	184.0
1970	213.5
1971	242.6
1972	334.0

^{1/} December 1972 Data Incomplete, Unofficial Report of Large December Exports Could Push 1972 to Slightly Above RD\$350.000.000.

**NON-TRADITIONAL AGRICULTURAL EXPORTS^{2/}
(FRUITS AND VEGETABLES)
DOMINICAN REPUBLIC**



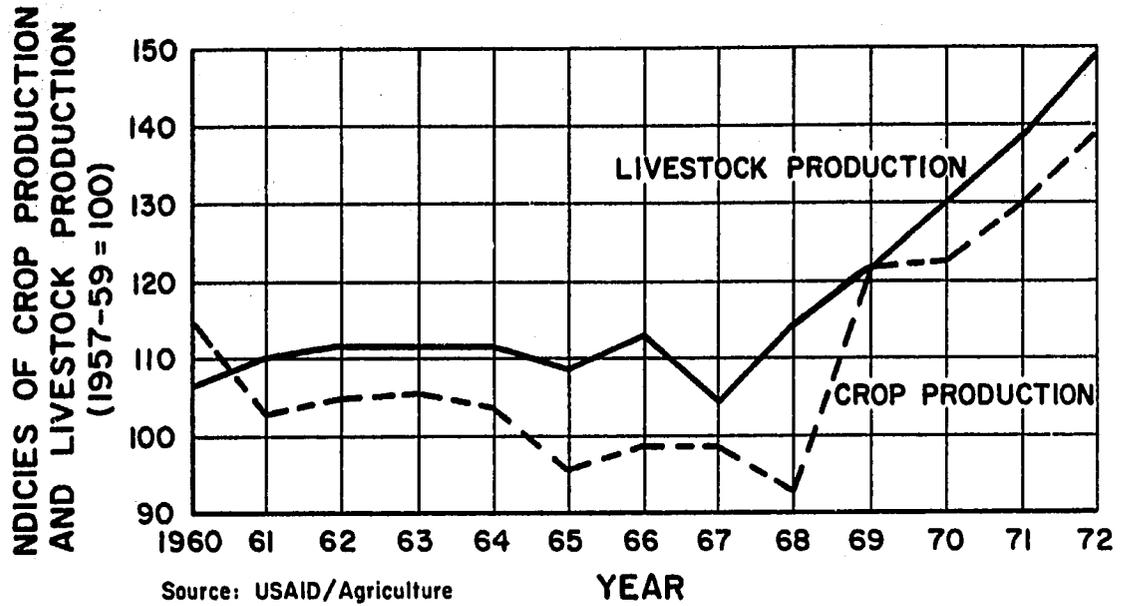
**BEEF EXPORTS^{2/}
DOMINICAN REPUBLIC**



TABLE A	
<u>YEAR</u>	<u>VALUE (MILLION RD\$)</u>
1966	1.8
1967	2.5
1968	4.3
1969	5.1
1970	6.0
1971	8.4
1972	10.6

TABLE B	
<u>YEAR</u>	<u>VALUE (MILLION RD\$)</u>
1966	.2
1967	.6
1968	4.3
1969	4.1
1970	3.3
1971	2.9
1972	6.6

^{2/} December 1972 Data Incomplete, Unofficial Report of Large December Exports Could Push 1972 Total Slightly Higher.



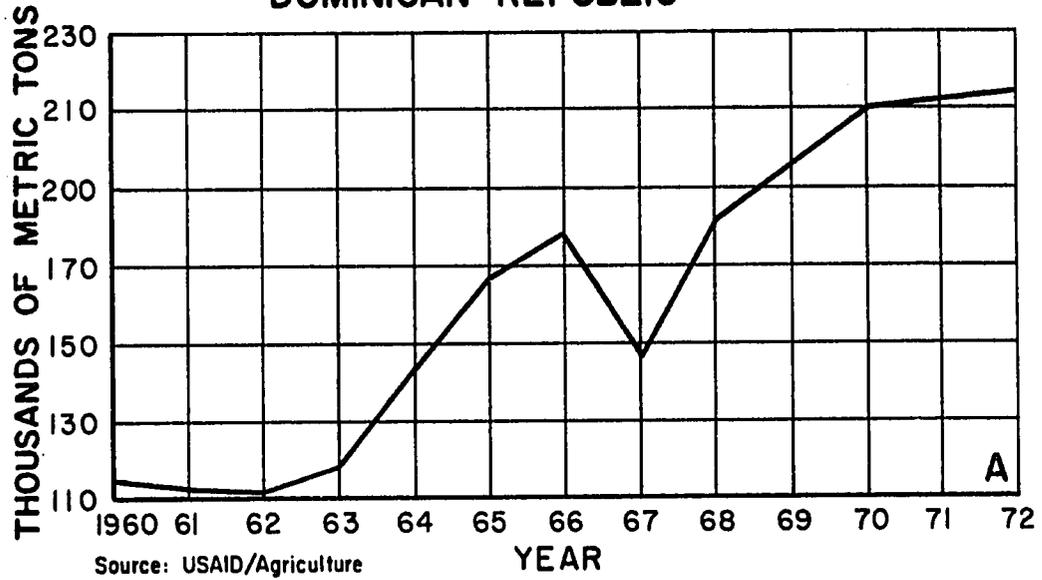
INDICES OF CROP PRODUCTION

1960	115
1961	103
1962	105
1963	106
1964	104
1965	96
1966	99
1967	99
1968	93
1969	122
1970	123
1971	130
1972	139

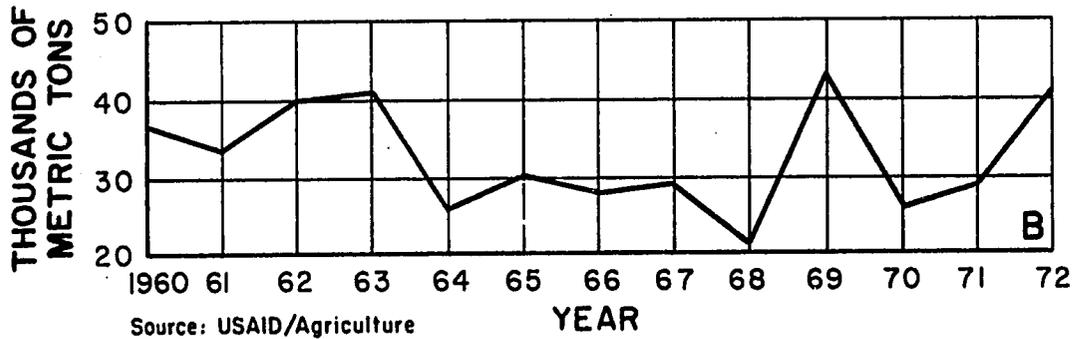
INDICES OF LIVESTOCK PRODUCTION

1960	107
1961	110
1962	112
1963	112
1964	112
1965	109
1966	113
1967	105
1968	115
1969	122
1970	130
1971	139
1972	149

RICE PRODUCTION (PADDY) DOMINICAN REPUBLIC



COCOA BEAN PRODUCTION DOMINICAN REPUBLIC

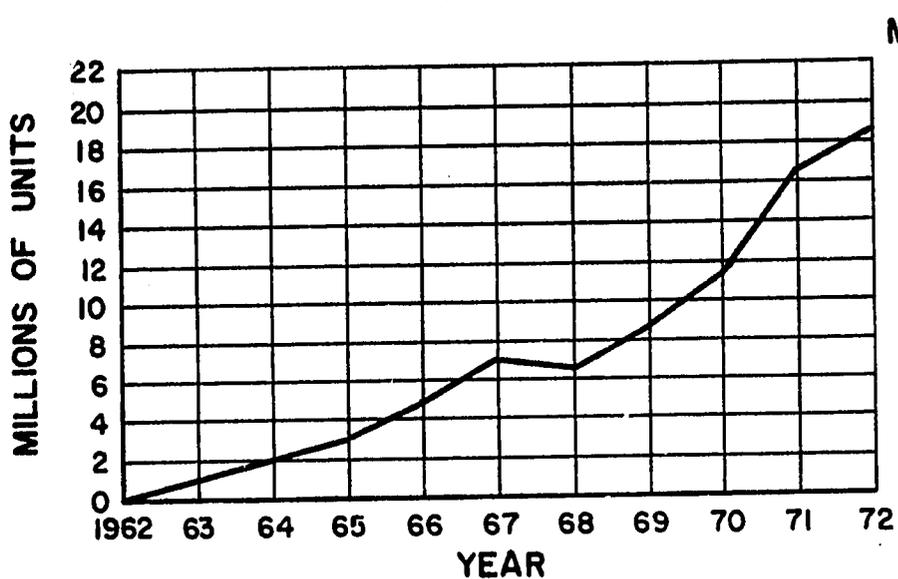


(Oct. Sep. Crop Year Basis Beginning in Year Shown)

YEAR	VALUE (MILLION RD\$)
1960	14
1961	13
1962	18
1963	43
1964	16
1965	78
1966	47
1967	81
1968	95
1969	200
1970	214
1971	214
1972	214

YEAR	VALUE (MILLION RD\$)
1960	36
1961	34
1962	40
1963	44
1964	24
1965	26
1966	55
1967	55
1968	27
1969	66
1970	70
1971	42
1972	41

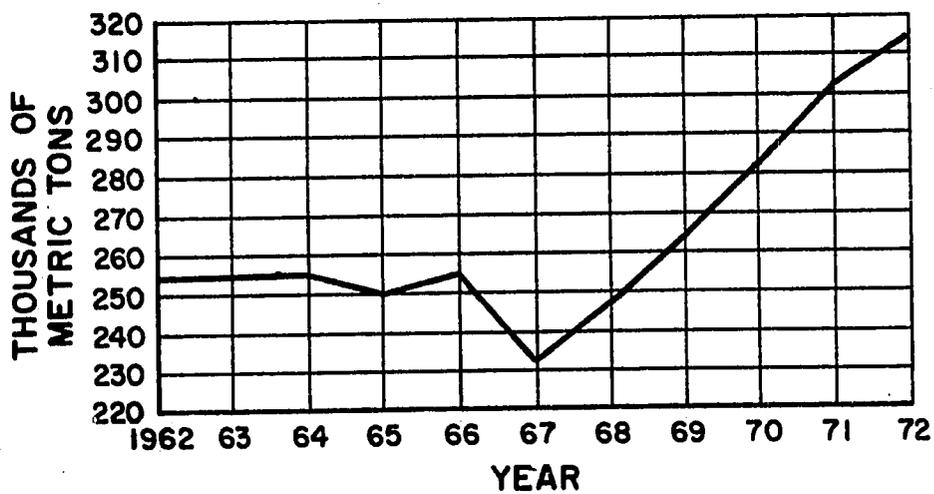
COMMERCIAL BROILER PRODUCTION DOMINICAN REPUBLIC



MILLIONS OF UNITS

1962	Nil
1963	1.0
1964	2.0
1965	3.0
1966	4.4
1967	7.2
1968	6.7
1969	8.7
1970	11.8
1971	17.5
1972	18.5

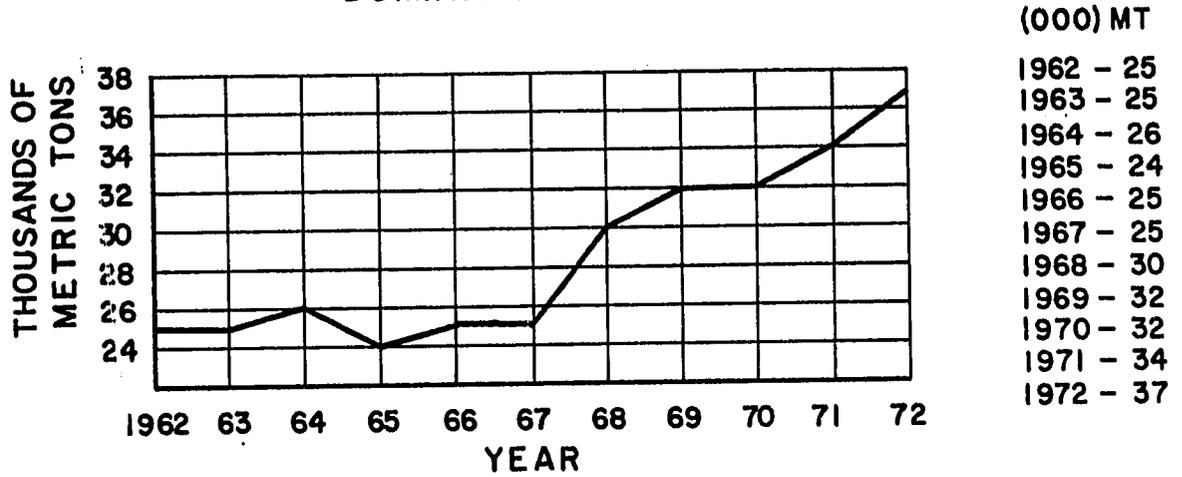
MILK PRODUCTION DOMINICAN REPUBLIC



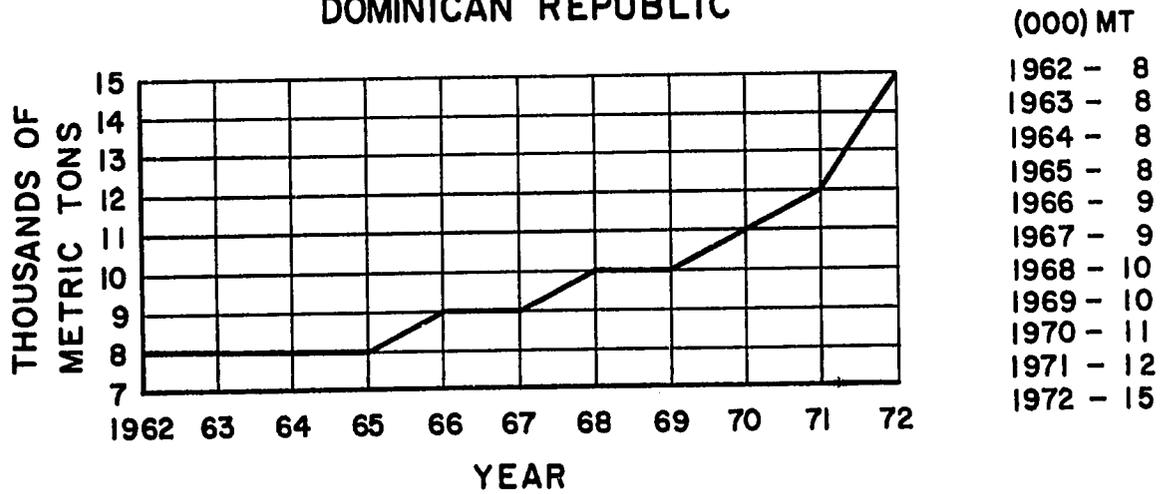
(000) MT

1962	255
1963	255
1964	255
1965	250
1966	255
1967	231
1968	247
1969	264
1970	283
1971	304
1972	315

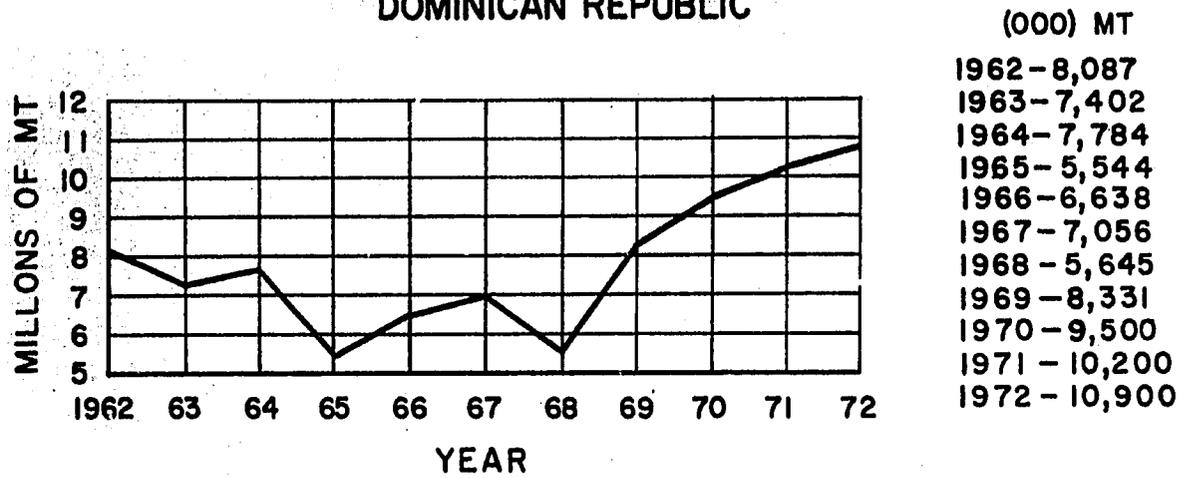
BEEF AND VEAL PRODUCTION DOMINICAN REPUBLIC



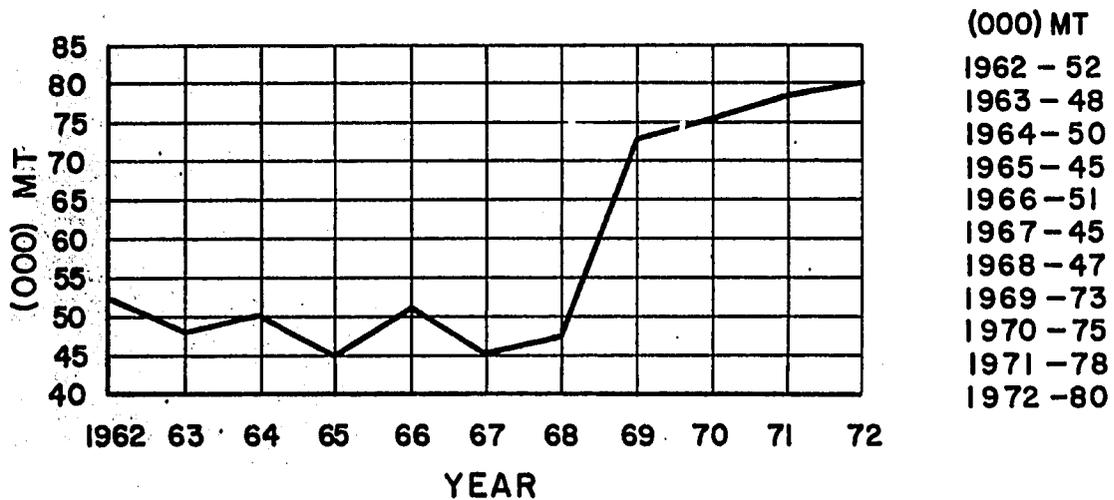
PORK PRODUCTION DOMINICAN REPUBLIC



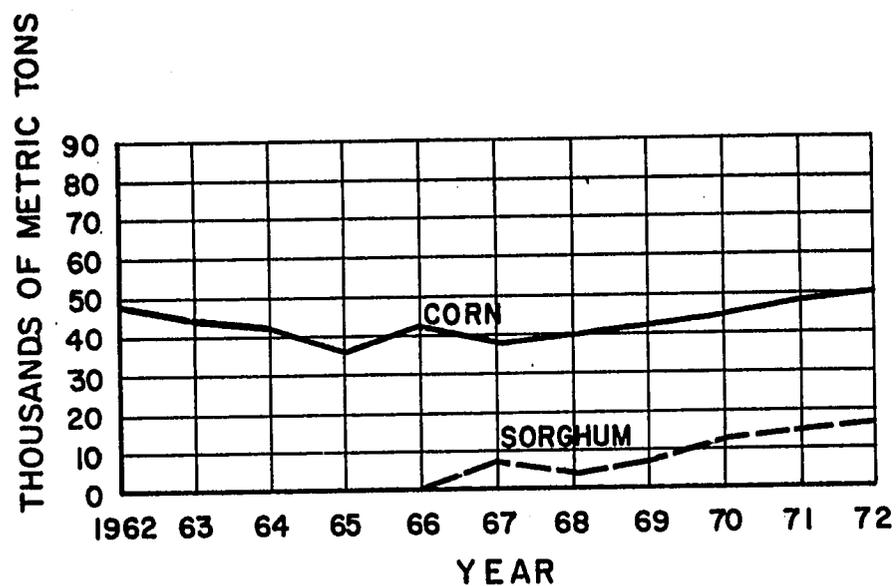
SUGAR CANE PRODUCTION DOMINICAN REPUBLIC



PEANUT PRODUCTION (IN SHELL) DOMINICAN REPUBLIC



CORN AND SORGHUM PRODUCTION DOMINICAN REPUBLIC



	(000) MT	
	CORN	SORGHUM*
1962	48	0
1963	46	0
1964	43	0
1965	38	0
1966	42	TRACE
1967	39	8
1968	40	5
1969	43	8
1970	45	14
1971	49	15
1972	50	18

*Sorghum introduced in 1966

AGGREGATES OF PRODUCTION AND INDICES OF AGRICULTURAL PRODUCTION, 1961 - 1971¹

PRELIMINARY 1972, PROJECTIONS 1973

DOMINICAN REPUBLIC

Item	Average 1957-59	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973
AGGREGATES OF PRODUCTION (Selected Crops)														
Million Dollars at Constant Prices														
Agriculture	152.0	159.8	162.7	163.9	162.0	151.0	156.3	152.7	150.9	185.5	189.5	201.8	216.3	224.5
Crops	111.2	115.0	117.2	118.4	116.2	106.5	110.3	109.7	103.7	135.5	136.5	144.8	165.4	160.4
Livestock	40.8	44.8	45.5	45.5	45.8	44.5	46.0	42.9	47.1	50.0	53.0	56.9	60.9	64.1
Food	130.1	134.6	139.7	135.9	135.3	128.5	136.6	129.7	129.4	159.0	163.0	173.6	186.4	193.8
Major Export Crops	64.6	68.5	69.5	72.2	67.0	55.4	56.2	61.5	51.6	75.2	73.8	79.3	83.0	92.5
Agriculture (excl. sugar)	120.8	128.6	130.4	134.3	130.7	128.7	129.7	124.4	128.3	152.2	151.5	161.0	172.7	177.3
Food (excl. sugar & cocoa)	87.4	91.3	93.2	91.7	95.0	95.6	100.1	91.2	99.3	110.3	115.8	122.5	128.2	132.0
Indices of Production														
1957 - 59 = 100														
agriculture	100	105	107	108	107	99	103	100	99	122	125	133	142	148
Crops	100	103	105	106	104	96	99	99	93	122	123	130	139	144
Livestock	100	110	112	112	112	109	113	105	115	122	130	139	149	157
Food	100	103	107	104	104	99	105	100	99	122	125	133	143	149
Major Export Crops	100	106	108	112	104	86	87	95	80	116	114	123	136	143
Agriculture (excl. sugar)	100	106	108	111	108	106	107	103	106	126	125	133	142	147
Food (excl. sugar & cocoa)	100	104	107	105	109	109	115	104	114	126	132	140	147	151
Indices of Production per Capita²														
1957 - 59 = 100														
Agriculture	100	95	94	92	89	80	80	76	73	88	87	90	93	94
Food	100	93	94	89	86	80	82	76	73	88	87	90	94	95
Agriculture (excl. sugar)	100	96	95	95	90	85	84	78	78	90	87	90	94	94
Food (excl. sugar & cocoa)	100	94	94	90	90	88	90	79	84	90	92	95	96	97
Index of Population														
1958 Population - 2,834,300	100.0	110.3	113.6	117.0	120.4	123.9	127.7	131.4	135.3	139.3	143.4	147.7	152.0	156.2
Population - thousands		3,127.9	3,220.4	3,315.7	3,413.8	3,510.8	3,618.8	3,725.8	3,836.0	3,949.5	4,066.3	4,186.4	4,309.8	4,428.8

¹ Selected crops representing about two-thirds of total agriculture production.

² Per capita indices computed using revised preliminary population series based on 1970 census.

Revised: February 15, 1973

ESTIMATED PRODUCTION FOR SELECTED CROPS¹ 1961 - 1971, PRELIMINARY 1972, PROJECTIONS 1973

DOMINICAN REPUBLIC

Commodity	Estimated Production														
	Price Weight	Average 1957-59	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973
	1,000 Metric Tons														
Rice, paddy	107	109	113	111	118	143	167	178	147	181	195	210	212	214	200
Corn, shelled	78	48	50	48	46	43	38	42	39	40	43	45	49	50	50
Beans, dry	220	22	19	19	19	23	23	29	23	20	26	25	28	30	30
Potatoes	56	5	6	8	8	15	16	18	20	20	23	23	24	25	25
Cassava	45	150	140	148	147	153	152	153	152	155	165	170	184	195	210
Sweet Potatoes	47	81	72	76	75	77	77	77	75	78	84	87	91	95	103
Sugarcane	4	7,621	7,811	8,087	7,402	7,784	5,544	6,638	7,056	5,645	8,331	9,500	10,200	10,900	11,800
Tobacco	309	22	29	25	31	28	19	20	19	16	22	22	26	31	34
Peanuts, in shell	144	57	44	52	48	50	45	51	45	47	73	75	78	80	85
Bananas	27	257	370	360	310	250	270	240	240	250	267	275	286	290	300
Coffee, green ²	449	33	36	34	41	40	37	30	38	37	44	44	45	45	45
Cocoa beans ²	356	35	34	40	41	26	30	28	29	21	43	26	29	41	41
Beef and veal	320	22	25	25	25	26	24	25	25	30	32	32	34	37	39
Pork	543	7	8	8	8	8	8	9	9	10	10	11	12	15	16
Milk	130	228	250	255	255	255	250	255	231	247	264	283	304	315	333

¹Selected crops representing about two-thirds of total agricultural production.

²October-September crop year basis.

Revised: February 15, 1973

Estimated Population, Gross Domestic Product,
Value of Agricultural Production, Per Capita Domestic Income
And Inhabitants Per Square Kilometer
Dominican Republic

<u>Year</u>	<u>Population (000)</u>	<u>Total GDP (Million Pesos)¹</u>	<u>Value of Agr. Production¹ (Million Pesos)</u>	<u>Per Capita Income (Pesos)</u>	<u>Inhabitants Per Sq. Kilometer</u>
1950	2,136	459		215	44.1
1960	3,047	713		234	62.9
1962	3,220	887	229	275	66.5
1964	3,414	988	246	289	70.5
1966	3,619	966	245	267	74.7
1968	3,836	1,040	259	271	79.2
1969	3,949	1,167	319	295	81.5
1970	4,066	1,290	326	317	83.9
1971	4,186	1,411,100	347	337	86.4
1972	4,309	1,588,100 ²	372	368	89.0

¹ Constant 1962 Prices

² Preliminary

Source: Central Bank
National Office of Statistics
Secretariat of Agriculture
USAID/TAMU

Revised March 15, 1973

APPENDIX II

RESIDENT STAFF MEMBERS

TEXAS A&M UNIVERSITY
Resident Staff Members

<u>Name</u>	<u>Speciality</u>	<u>Dates Under Contract</u>
ARMSTRONG, James. M.	Veterinary Medicine	11/66 - 8/70
BAKER, Charles K.	Agric. Econ./Mktg.	11/66 - 10/68
BARFIELD, Merrel	Agric. Educ.	6/67 - 6/70
BELL, Tommie	Seed Technology	1/66 - 2/70
BEMIS, James, Jr.	Agric. Information	9/68 - 5/70
BOWERS, Thomas W.	Pastures	1/66 - 12/67
BROWN, John R.	Cooperative Marketing Facilities/Agricultural Engineering	5/69 - 5/73
DAVID, W. Lewis	Price Stabilization	8/69 - 4/71
DAHLBERG, Franklyn	Agric. Eng.	6/65 - 7/67
DICKEY, James	Livestock	7/66 - 7/68
FREE, Melvin	Entomology	9/68 - 9/70
GALVAN, Daniel C.	Regional Development Agricultural Extension	9/65 - 6/71
GARCIA, Danny L.	Regional Development	9/65 - 3/66
GARZA, Arnoldo E.	Soil Science	9/65 - 8/67
GUPTON, Phillip	Regional Development	9/65 - 8/67
HAWKINS, J. Wallace, Jr.	Agric. Educ.	8/66 - 8/70
HELBIG, William H.	Agric. Extension	7/66 - 6/69
HEWITT, Lynn J.	Agric. Educ.	4/67 - 6/70
HINOJOSA, Raul, Jr.	Regional Development	9/65 - 12/69
HOLCOMB, John W.	Chief of Party	7/68 - 8/71

Resident Staff Members (Continued)

<u>Name</u>	<u>Specialty</u>	<u>Dates Under Contract</u>
HOLGUIN, Lazaro	Regional Development	7/67 - 2/70
INMAN, Marion B.	Extension - Livestock	5/67 - 6/73
KIRKWOOD, James I.	Soil Science	8/65 - 8/69
KUEHN, Douglas	Regional Development Vegetable Horticulture	9/65 - 12/69
LEVANDOWSKY, Daniel W.	Tropical Horticulture	8/65 - 6/72
LIPE, William N.	Vegetable Horticulture	2/66 - 4/70
LYLES, William	Crop Science	4/66 - 4/68
MAGEE, Aden C.	Agric. Econ./Farm Mgt. Acting Chief of Party	10/66 - 9/68
MARSHALL, Garland R.	Regional Development	10/66 - 10/68
McSWAIN, Arlan B.	Regional Development	8/67 - 2/68
MILLER, Jarvis E.	Agricultural Economics Chief of Party	4/65 - 8/67
MOORE, Jene W.	Administration	1/67 - 2/70
MOSELY, Billy	Regional Development	9/65 - 11/67
MURPHREY, C. James	Agricultural Economics Asst. Chief of Party Chief of Party	1/67 - 6/73
PEGUES, Samuel S.	Regional Development	9/65 - 6/71
RICHARDSON, O. L., Jr.	Livestock	7/65 - 7/67
ROGERS, Charles G.	Regional Development	9/65 - 7/66
ROLSTON, Lawrence H.	Entomology	2/66 - 1/68
ROSS, Billy J.	Administration	4/65 - 3/67
RUPP, Robert A.	Regional Development Agrarian Reform	9/65 - 7/71

Resident Staff Members (Continued)

<u>Name</u>	<u>Speciality</u>	<u>Dates Under Contract</u>
SHORT, Elsie P.	Home Economics	7/66 - 7/68
SUAYDI, Maria de	Secretary	1/66 - 12/67
TREVINO, Jesus M.	Regional Development Agrarian Reform Tropical Horticulture	9/65 - 5/73
THAXTON, Earnest L.	Agronomist	7/68 - 6/71
VEST, Larry R.	Poultry Science	10/66 - 8/70

APPENDIX III

SHORT TERM STAFF

TEXAS A&M UNIVERSITY

Short-Term Staff

<u>Name</u>	<u>Specialty</u>
ADKISSON, P. L.	Entomology
ATKINS I. M.	Agronomist
BEACH, William E.	International Programs
BILLINGSLEY, Ray V.	Agricultural Economics
BLEASE, F. W.	Price Stabilization
BLACKHURST, H. T.	Vegetable Horticulture
BLOODWORTH, Morris E.	Soil and Crop Sciences
BUTLER, O. D.	Animal Science
CARTWRIGHT, Tomas C.	Animal Science
CLIFTON, O. B.	Extension
CHERRY, Richard T.	Marketing
COOK, Elmo V.	Agricultural Education
CORREA, R. T.	Vegetable Horticulture
DILL, Charles W.	Food Technology
DAVIS, James. W.	Dairy Specialist
DONALDSON, Wesley E.	Purchasing
DUPEY, Jerry W.	Agricultural Economics
GAINES, J. C., Jr.	Entomology
GLEISER, Chester A.	Veterinary Science
GRAY, Jack D.	International Programs
GREENHUT, M. L.	Economics
HARSTON, Clive R.	Agricultural Economics

Short-Term Staff (Continued)

<u>Name</u>	<u>Specialty</u>
HAWKINS, J. Wallace, Jr.	Agricultural Education
HOBGOOD, Price	Agricultural Engineering
HOLCOMB, John W.	Agricultural Education
HUDMAN, Donald	Swine Production
KNEBEL, Earl H.	Agricultural Education
KRUEGER, W. F.	Poultry Science
KUNKEL, H. O.	Administration and Research
LEIGHTON, R. E.	Animal Science (Dairy)
LEINWEBER, C. L.	Range Science
LICCIONI, George D., Jr.	Purchasing
LINGER, Irving O.	Economics
MAGEE, A. C.	Agricultural Economics
McNEELY, John G.	Agricultural Economics
McNEESE, Jimmy D.	Agricultural Economics
NELSON, Bardin H.	Rural Sociology
PATTERSON, R. E.	Administration
PEARSON, John E.	Business Administration
POTTS, R. C.	Education Administration
PREWIT, J. D.	Extension
QUISENBERRY, J. H.	Poultry Science
REASONOVER, Frances L.	Extension
ROLSTON, L. R.	Rodent Control
ROOT, Richard	Radio Communication

Short-Term Staff (Continued)

<u>Name</u>	<u>Specialty</u>
ROSS, Billy J.	Agricultural Economics
ROSS, Henry	Agricultural Education
RUDDER, J. Earl	Administration
RUNKLES, Jack R.	Soils Physics, Irrigation
SCHAFFNER, John C.	Entomology
SORENSEN, A. M.	Animal Science
SORENSEN, H. B.	Agricultural Economics
SMITH, Leon R.	Plant Sciences
SMITH, Verdie R.	Rodent Control
SPEARS, Ben R.	Soil and Crop Sciences
STELLY, Randall	Agricultural Economics
SWAIM, Bryan W.	Extension
TAYLOR, Hal R.	Agricultural Communications
THOMPSON, Herbert G.	Business Administration
VELA, Angel A.	Agricultural Education
WELCH, C. D.	Soil Chemistry
WOOTON, Charley V.	Transportation
WORMELI, B. C.	Poultry Science
WYNN, John T.	Marketing

APPENDIX IV

REGIONAL SERVICES

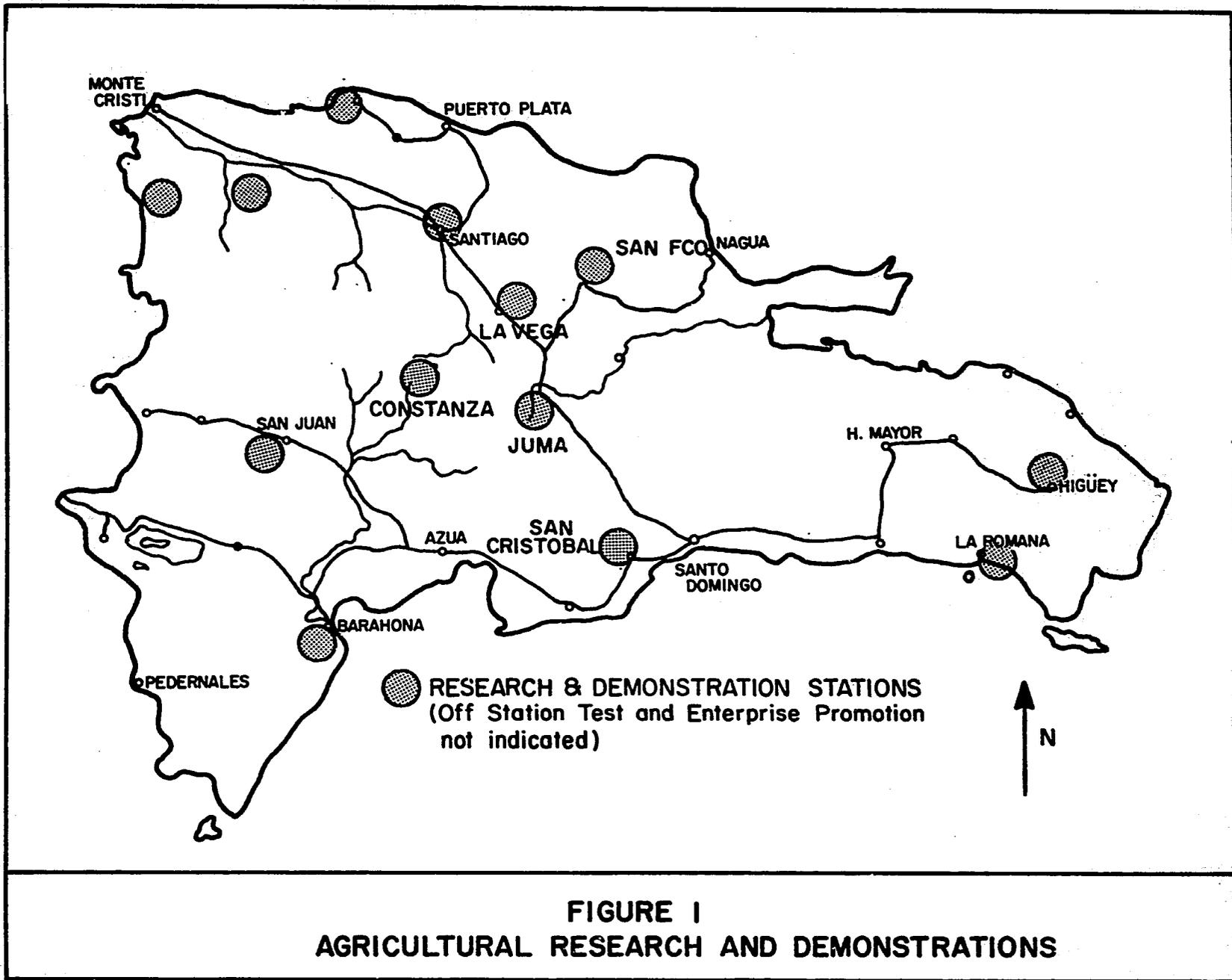


FIGURE I
AGRICULTURAL RESEARCH AND DEMONSTRATIONS

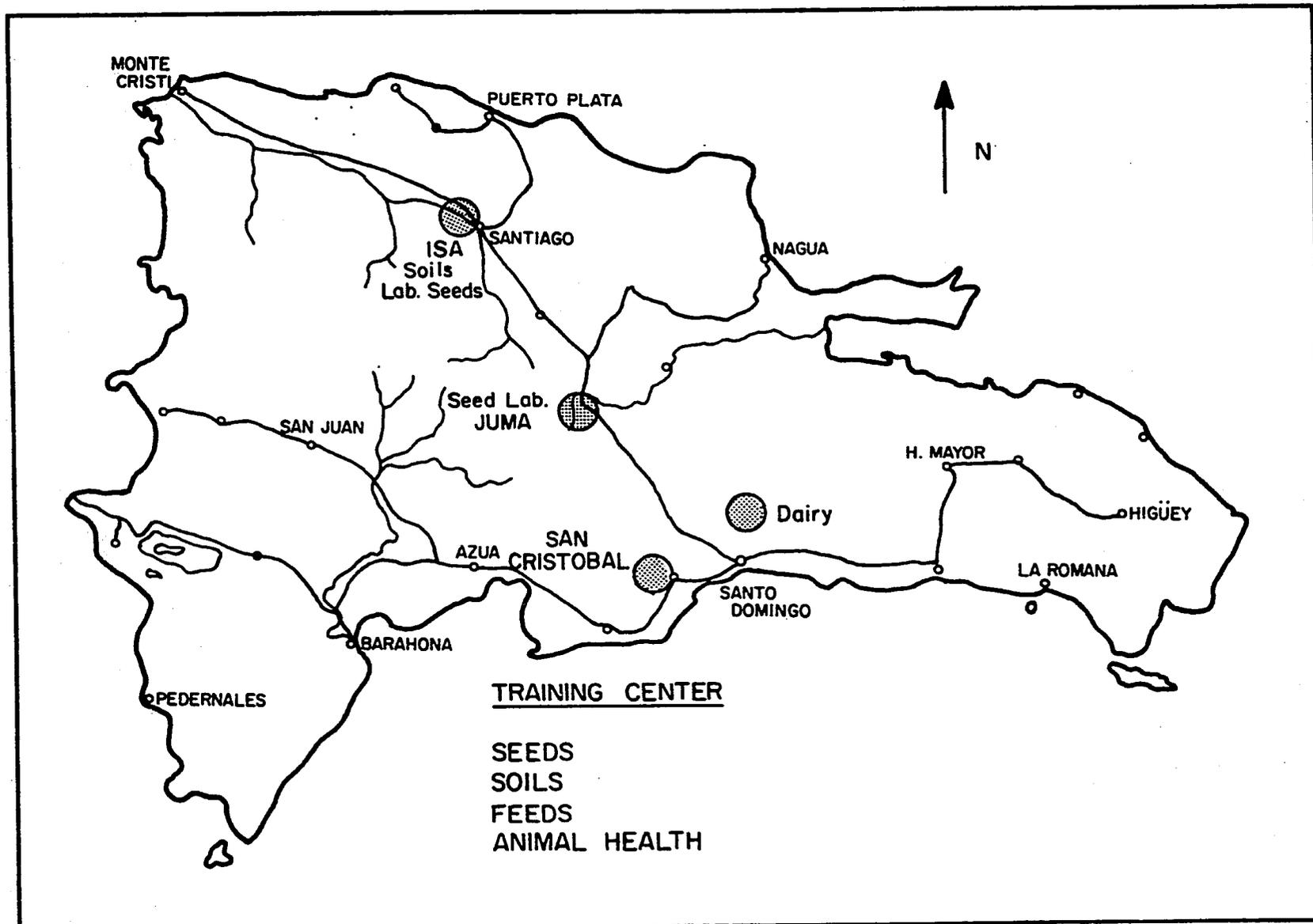
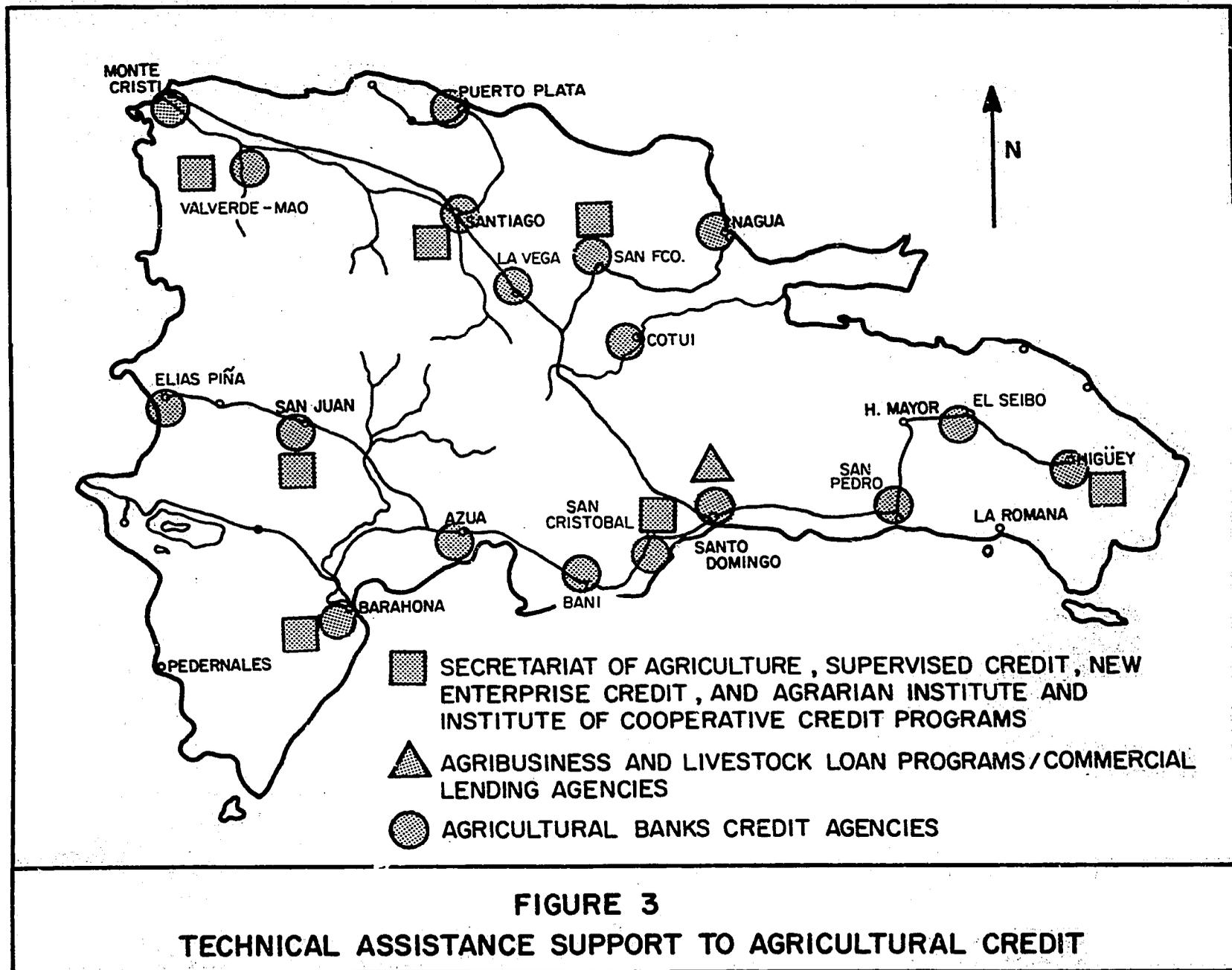
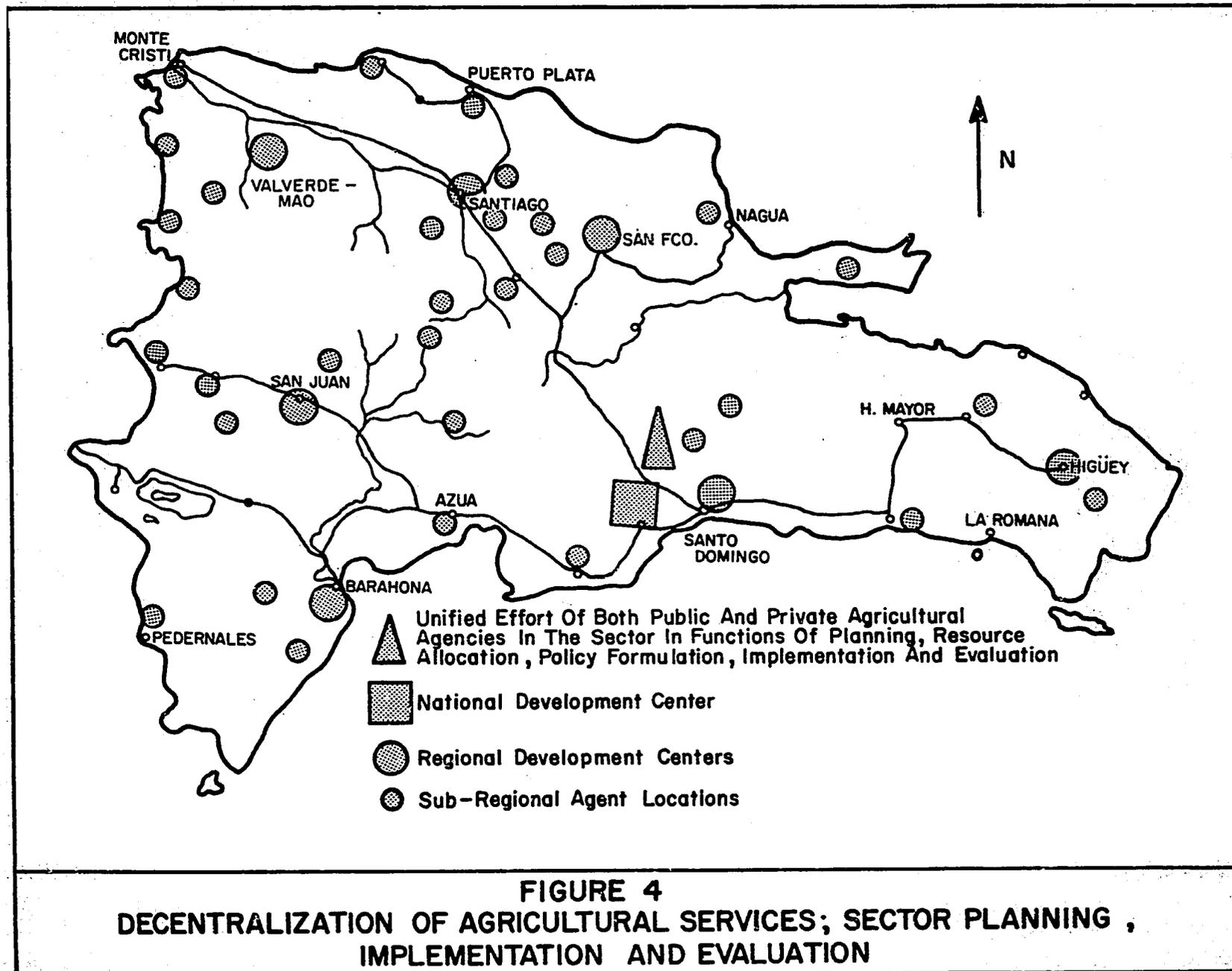
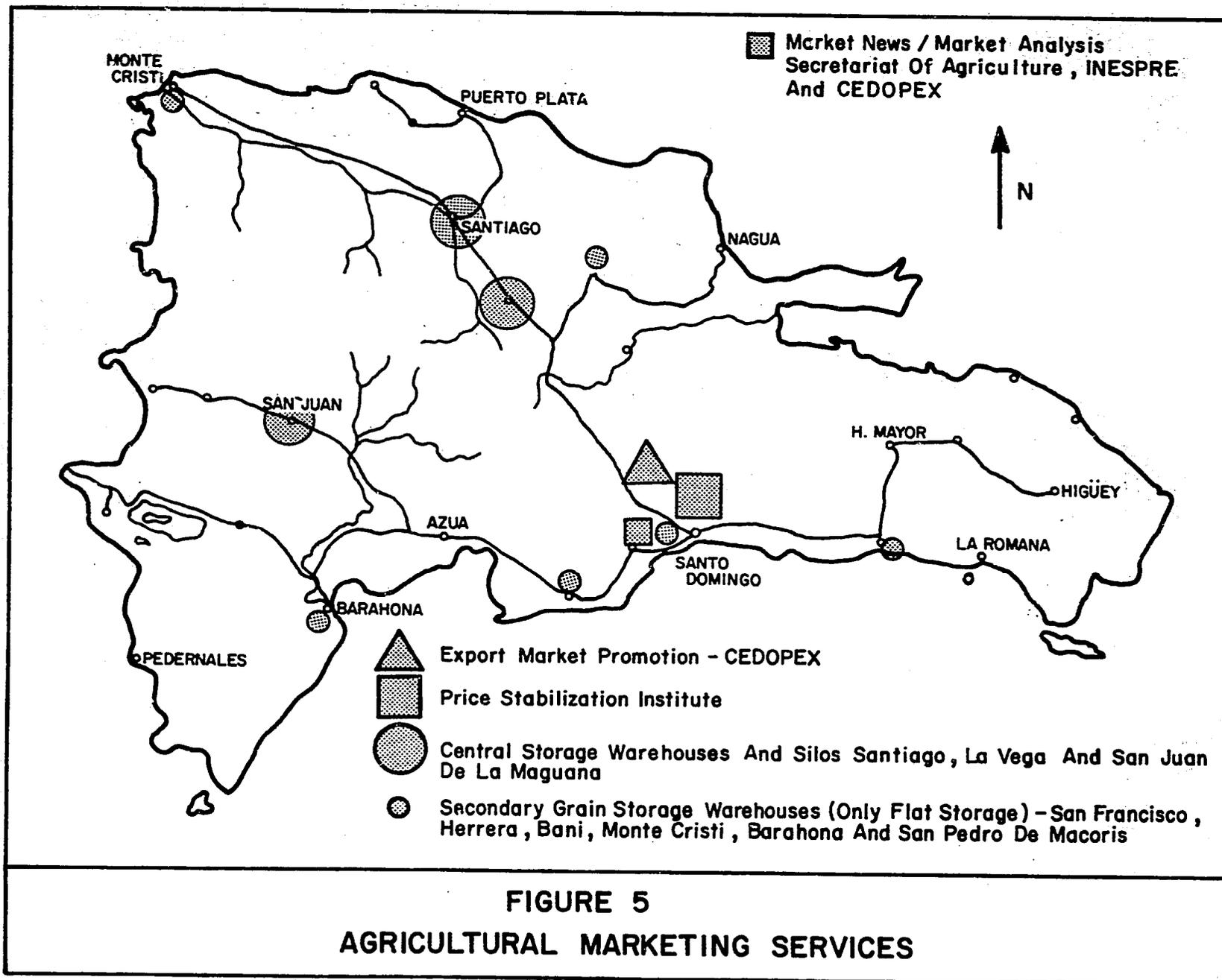
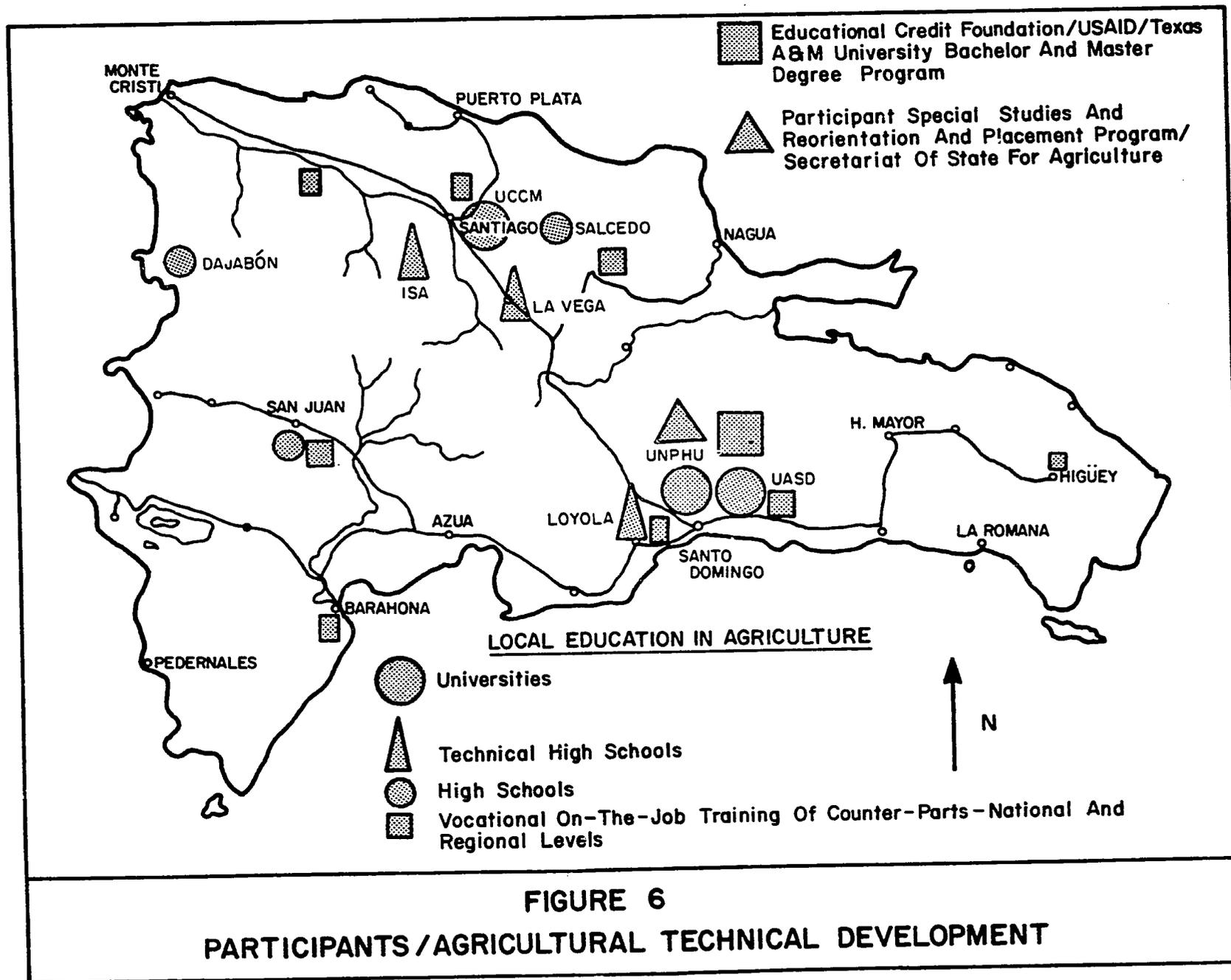


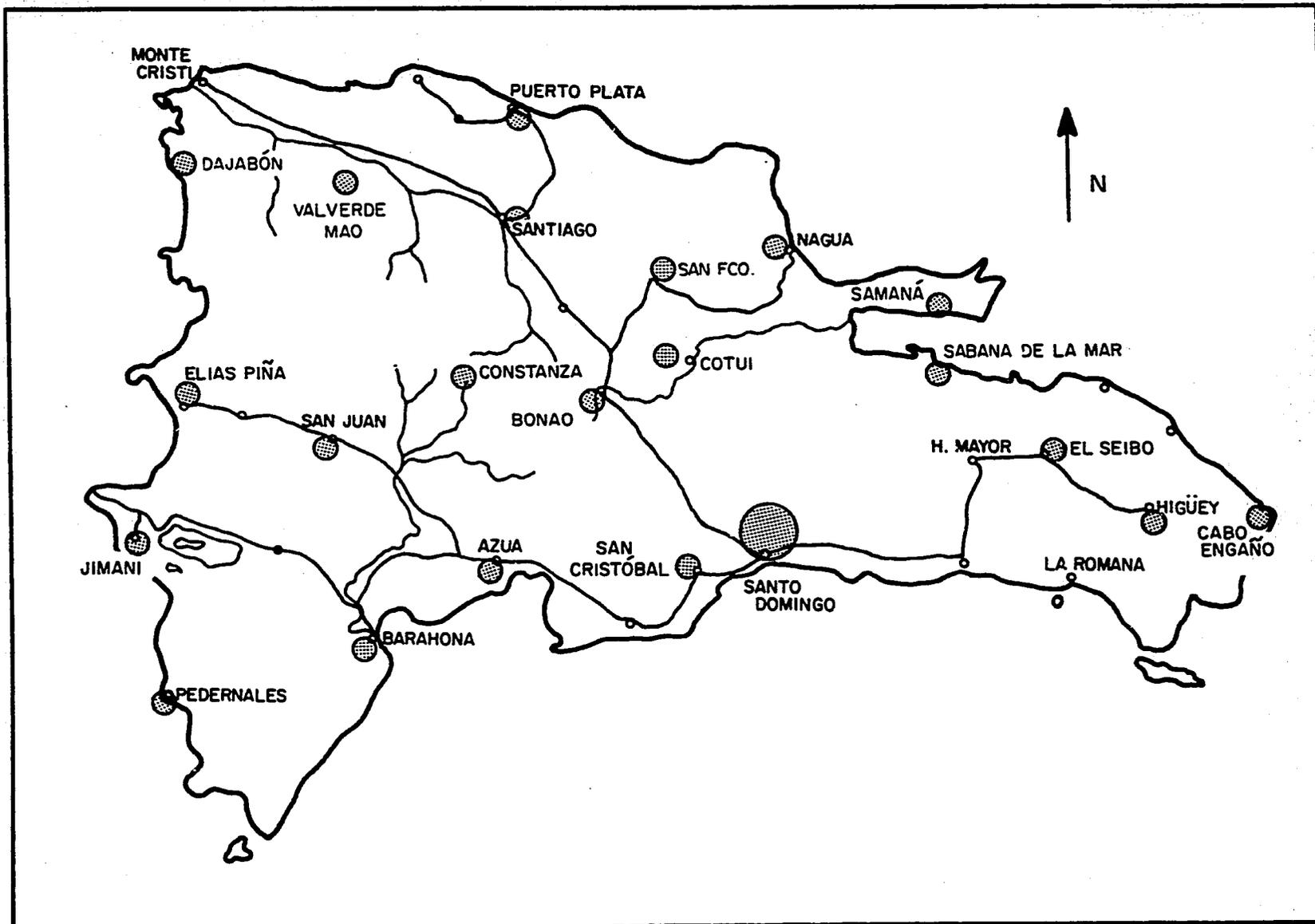
FIGURE 2
AGRICULTURAL SERVICES FACILITIES TRAINING CENTER AND LABORATORIES









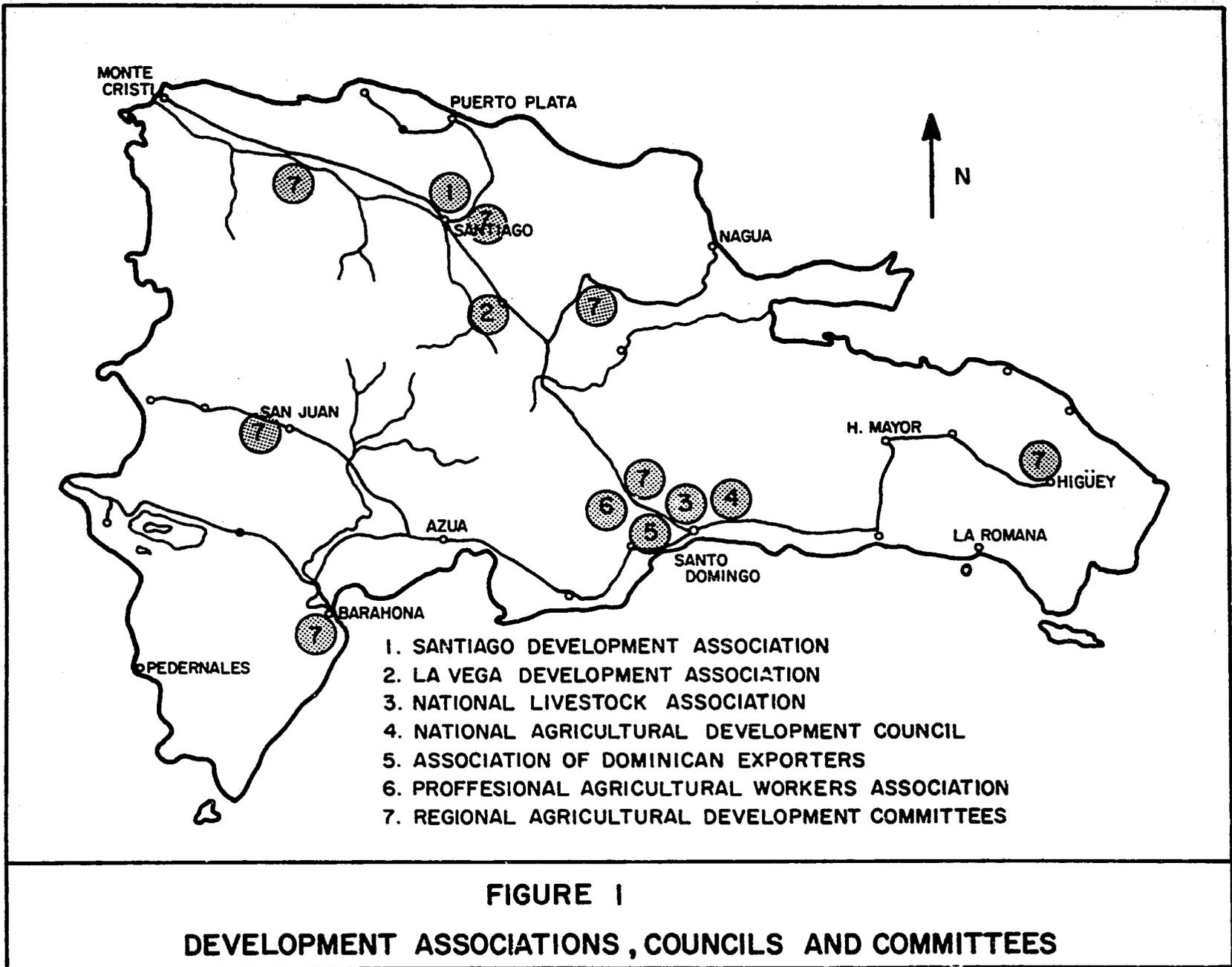


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FIGURE 7
SECRETARIAT OF AGRICULTURE - AGRICULTURAL RADIO COMMUNICATIONS NETWORK

APPENDIX V

DEVELOPMENT GROUPS



APPENDIX VI

STUDENT LIST

AID SPONSORED STUDENTS

<u>NAME</u>	<u>GRADUATION DATE</u>	<u>MAJOR FIELD</u>	<u>EMPLOYMENT</u>
ALBERTY, Rafael A.	1970	Plt. & Soil Sci.	Consejo Estatal del Azucar Santo Domingo
ALVAREZ, Fausto	1971	Rural Sociology	Unknown
ALVAREZ, Luis	1970	Plt. & Soil Sci.	E. Leon Jimenez Tobacco Co. C. por A. Santiago
AQUINO, Carlos	1970	Agric. Econ.	Secretary of State for Agriculture Santo Domingo
AZAR, Joaquin	1969	Agric. Educ.	Director of Sales, Agricultural Chemical Shell Co. - Santo Domingo 47
BALDRICH, Luis	1971	Rural Sociology	Extension Division, Secretariat for Agriculture - San Cristobal
BAUTISTA, Manuel	Withdrew		Unknown
BEJARAN, Ramon	1970	Dairy Science	Nestle Company San Francisco de Macoris
BENCOSME, Jose	1971	Entomology	Plant Protection, Secretariat for Agriculture - Santo Domingo
BERGES, Gustavo	1970	Agric. Econ.	Lavador Company Santo Domingo
BURGOS, Jose	1971	Entomology	Plant Protection, Consejo Estatal del Azucar - Santo Domingo

AID SPONSORED STUDENTS (Continued)

<u>NAME</u>	<u>GRADUATION DATE</u>	<u>MAJOR FIELD</u>	<u>EMPLOYMENT</u>
CEBALLOS, Juan	1970	Agric. Eng.	Agricultural Engineer, Falconbridge Co. Bonao
COLLADO, Ramon	Did not Graduate		Unknown
CONCEPCION, Braulio	1969	Agron. (Soil)	Oil Crops Division, Secretariat for Agriculture - La Vega
CUELLO, Juan	1970	Horticulture	Cocoa Program, Secretariat for Agriculture - San Francisco de Macoris
DELGADO, Francisco	1971	Forestry	Diversification Program (Citrus) Gulf & Western - La Romana
De MOYA, Rafael	1970	Agric. Econ.	Graduate Student Texas A&M University
DIAZ, Tiburcio	Withdrew		Consejo Estatal del Azucar Santo Domingo
DISLA, Carlos	1971	Agric. Econ.	Planning Office, Secretariat for Agriculture - Santo Domingo
FANAS, Juan	1970	Agric. Econ.	Sub-Secretary for Production & Mktg. Secretariat for Agriculture - Santo Domingo
FERMIN, Rafael	1969	Agric. Econ.	Livestock Department, Central Romana La Romana
FERREIRA, Fausto	1970	Agric. Eng.	Graduate Student Texas A&M University

AID SPONSORED STUDENTS (Continued)

<u>NAME</u>	<u>GRADUATION DATE</u>	<u>MAJOR FIELD</u>	<u>EMPLOYMENT</u>
FOUNDEUR, Alejandro	1969	Dairy Science	Helados Noris Santiago
GOMEZ, Jose M.	1969	Plt. & Soil Sci.	Research ISA/FAO, secretariat for Agriculture - Santiago
GONZALEZ, Fco. Miguel	1970	Agronomy	Sub-Director Agrarian Institute Santo Domingo
GONZALEZ, Luis M.	1970	Sociology	Director, National Family Planning Council - Santo Domingo
JIMENEZ, Angel E.	Withdrew		Unknown
JIMENEZ, Luis A.	1971	Rural Sociology	Unknown
JIMENEZ, Pedro J.	1970	Agric. Econ.	Free Port Zone, Gulf and Western Corporation - La Romana
LEDESMA, Rafael	1968	An. Sci.	Director Department of Animal Production Secretariat for Agriculture - Santo Domingo
LOPEZ, Cesar E.	1970	Plt. & Soil Sci.	Graduate Student Prairie View A. and M. College
LOPEZ, Jose	1970	Entomology	Agriculturalist, Rohm-Hass Company Santo Domingo
LUNA, Jose	1970	Horticulture	Teacher, Instituto Superior de Agricultura - Santiago

AID SPONSORED STUDENTS (Continued)

<u>NAME</u>	<u>GRADUATION DATE</u>	<u>MAJOR FIELD</u>	<u>EMPLOYMENT</u>
MADERA, Ramon	1970	Plt. & Soil Sci.	Agricultural Division, Shell Company Santo Domingo
MARTE, Domingo	1969	Horticulture	Director of Research (CNIA), Secretariat for Agriculture - San Cristobal
MARTINEZ, Rafael	1970	Agric. Econ.	Graduate Student Texas A&M University
MENA, Hector	1969	Agric. Educ.	Technical Coordinator PIDAGRO, Sub- Secretary for Agriculture - Santo Domingo
MENDEZ, Adan	1971	Agric. Econ.	Planning Office, Secretariat for Agriculture Santo Domingo
MERCEDES, Ruperto	1970	Agric. Educ.	Teacher, Escuela Agricola Salesiana La Vega
MONTES DE OCA, Hector	1970	Horticulture	Teacher, Loyola Institute San Cristobal
MOREL, Jose	1970	Poul. Sci.	Poultry Department, Secretariat for Agriculture - Santo Domingo
NOLASCO, Joaquin	1971	Agric. Econ.	Director Marketing Division, INESPRES Santo Domingo
NUNEZ, Augusto	1970	Agronomy	Regional Director, Secretariat for Agriculture - Valverde
NUNEZ, Jose R.	1970	Plt. & Soil Sci.	Cereal Grain Department, Secretariat for Agriculture - San Cristobal

AID SPONSORED STUDENTS (Continued)

<u>NAME</u>	<u>GRADUATION DATE</u>	<u>MAJOR FIELD</u>	<u>EMPLOYMENT</u>
NUNEZ, Juan A.	1970	Agric. Econ.	Assistant to the Secretary of Agriculture Santo Domingo
OLIVO, Emilio	1970	Agric. Educ.	Santiago Development Association and Instituto Superior de Agricultura
PELLERANO, Carlos	1969	Agron.	Pasture Research, Secretariat for Agriculture - Santo Domingo
PELLERANO, Luis	1970	Dairy Science	Livestock Loan Officer, First National City Bank - Santo Domingo
PENA, Marcos	1970	Entomology	Professor of Sciences UNPHU Santo Domingo
PEREZ, Luis	1970	Agric. Eng.	Teacher, Instituto Superior de Agricultura Santiago
PINA, Angel	1970	An. Sci.	Graduate Student Texas A&M University
PINA, Casimiro	1970	Dairy Science	Graduate Student University of California
PINEDA, Raul A.	1969	Agric. Journ.	Information Office, Secretariat for Agriculture - Santo Domingo
POLANCO, Julio C.	1969	Agron. (Soil)	Soil Department, Secretariat of Agriculture - Santo Domingo
RAMIREZ, Tirso	1970	Horticulture	Teacher, Institute Superior de Agricultura Santiago

AID SPONSORED STUDENTS (Continued)

<u>NAME</u>	<u>GRADUATION DATE</u>	<u>MAJOR FIELD</u>	<u>EMPLOYMENT</u>
REYES, Luis F.	Withdrew		Unknown
RODRIGUEZ, Jose Francisco	Did not Graduate		Unknown
RODRIGUEZ, Ramon	1971	Forestry	Dominican Forestry Department Santo Domingo
ROSARIO, Rudolfo	1971	Agron.	Loan Officer, Banco de Reservas Santo Domingo
SUERO, Bienvenido	1970	Agron.	Graduate Student Texas A&M University
TAVERAS, Quilvio	1970	Agronomy	Agrarian Institute Santo Domingo
TAVAREZ, Dionisio	1970	Horticulture	E. Leon Jimenez Tobacco Co. C. por A. Santiago
VARGAS, Polibio	1971	Horticulture	Agriculture Research, Secretariat for Agriculture - San Cristobal
VASQUEZ, Eligio	1970	Agric. Educ.	Secretariat of State for the Presidency Santo Domingo
VIDAL, Miguel A.	1971	Agric. Eng.	Irrigation Department, Agrarian Institute Santo Domingo
VILLAR, Juan	1969	Diary Science (Mfg.)	Office of Community Development Santo Domingo

AID SPONSORED STUDENTS (Continued)

<u>NAME</u>	<u>GRADUATION DATE</u>	<u>MAJOR FIELD</u>	<u>EMPLOYMENT</u>
VINAS, Jaime J.	1971	Agron.	Agricultural Chemist, Shell Co. Santo Domingo
VINAS, Ml. de Jesus	1967	Agron.	President, Antilles Chemical Co. Santo Domingo

EDUCATIONAL CREDIT FOUNDATION SPONSORED STUDENTS

BADIA, Juan	1971	Agric. Educ.	Professor, Agric. Educ., UNPHU/ Director Ext., Univ.-San J. de la Mag.
BARINAS, Froilan	1971	Eng. Tech.	UNPHU Santo Domingo
BOBEA, Rafael	1971	Agric. Eng.	Secretariat for Agriculture Santo Domingo
CASTILLO, Manuel	1971	Agric. Educ.	Rice Research, Secretariat for Agriculture - June
DE LA ROSA, Julian	1972	Entomology	Teacher, ISA Santiago
FLORENTINO, Tomas	1972	Indus. Educ.	Plant Manager, Freeport Zone La Romana

EDUCATIONAL CREDIT FOUNDATION SPONSORED STUDENTS (Continued)

<u>NAME</u>	<u>GRADUATION DATE</u>	<u>MAJOR FIELD</u>	<u>EMPLOYMENT</u>
FLORES, Luis G.	1972	Horticulture	Tribunal de Tierras Santo Domingo
GARCIA, Adalberto	1971	Agric. Eng.	Irrigation Department, INDRHI Santo Domingo
GARCIA, Antonio	1971	Agric. Educ.	Crop Research, Secretariat for Agricultural - San Cristobal
GARRIDO, Raimundo	1972	Agric. Educ.	Agri-business Loan Department, Financiera Dominicana - Santo Domingo
GUERRERO, Jose	Withdrew	Agric. Educ.	Unknown
HERNANDEZ, Tomas	1971	Agric. Educ.	Professor, Agric. Educ., UNPHU/ Education Faculty - Santo Domingo
JIMENEZ, Blas	1972	Agric. Educ.	Unknown
JIMENEZ, Pedro	1971	Agric. Educ.	Extension Division, Secretariat for Agriculture - San Cristobal
LEDESMA, Rafael	1969	An. Sci. (M.S.)	Director Department of Animal Production, Secretariat for Agriculture - Santo Domingo
LORENZO, Domingo	1972	Agric. Educ.	Livestock Research, Secretariat for Agriculture - Higüey
MARTE, Domingo	1973	Horticulture (M.S.)	Director of Research (CNIA), Secretariat for Agriculture - San Cristobal

EDUCATIONAL CREDIT FOUNDATION SPONSORED STUDENTS (Continued)

<u>NAME</u>	<u>GRADUATION DATE</u>	<u>MAJOR FIELD</u>	<u>EMPLOYMENT</u>
MARTINEZ, Rafael	1973	Agric. Econ.	Economics Advisor, Secretariat for Agriculture - Santo Domingo
MATOS, Manuel	1973	Plt. & Soil Sci.	Secretariat for Agriculture Santo Domingo
MAYOL, Virgilio	1971	Agric. Educ.	Agri-business Analyst for Financiera Dominicana and ISA - Santiago
NUNEZ, Angel	1972	Agric. Educ.	E. Leon Jimenez Tobacco Co. C. por A. Santiago
NUNEZ, Ruben	1971	Agric. Educ.	Graduate Student University of Delaware
OLIVARES, Arnaldo	1972	Agric. Educ.	Livestock Development, Secretariat for Agriculture - Santo Domingo
PAIEWONSKI, Jose	1972	Agric. Educ. B.S. & Master of Educ.	Director of University Programs, ISA Santiago
PENA, Marcos	1973	Wildlife Ecology Master of Agric.	Secretariat of Agriculture, UNPHU Santo Domingo
PEREZ, Diogenes	1971	Agric. Educ.	Crop Research, Secretariat for Agriculture - San Cristobal
POLANCO, Julio C.	1969	Agron. (Soil) M.S.	Soil Department, Secretariat for Agriculture - Santo Domingo
RAVELO, Carlos	1971	Agric. Eng.	Graduate Student Texas A&M University

EDUCATIONAL CREDIT FOUNDATION SPONSORED STUDENTS (Continued)

<u>NAME</u>	<u>GRADUATION DATE</u>	<u>MAJOR FIELD</u>	<u>EMPLOYMENT</u>
REYES LUGO, Ramon	1972	Accounting, M. S.	Chief Accountant, Central Romana La Romana
RODRIGUEZ, Carlos	1971	Agric. Educ.	Professor, Agric. Educ., UNPHU Director de Escuela de Cooperativismo
THEVENIN, Roberto	1972	Agric. Econ., Master of Agriculture	Planning Advisor to Secretary of Agriculture - Santo Domingo
VINAS, Victor	1973	Agric. Econ.	INESPRE Santo Domingo

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EDUCATIONAL CREDIT FOUNDATION SPONSORED STUDENTS - PRESENT

ACOSTA, Alexis	Dec. 1973	An. Sci.	Undergraduate Student Texas A&M University
De MOYA, Rafael	Dec. 1973	Agric. Econ.	Graduate Student Texas A&M University
FERREIRA, Fausto V.	Dec. 1973	Agric. Eng.	Graduate Student Texas A&M University
GRAVELEY, Victor T.	Aug. 1973	Mechanized Agric.	Undergraduate Student Texas A&M University
HERNANDEZ, Francisco	Dec. 1975	Agric. Eng.	Undergraduate Student Texas A&M University

EDUCATIONAL CREDIT FOUNDATION SPONSORED STUDENTS - PRESENT (Continued)

<u>NAME</u>	<u>GRADUATION DATE</u>	<u>MAJOR FIELD</u>	<u>EMPLOYMENT</u>
LOPEZ, Ramon	Dec. 1975	Agronomy	Undergraduate Student Texas A&M University
MARTINEZ, George	Dec. 1973	Plt. Path.	Graduate Student Texas A&M University
MENDEZ, Manuel E.	Dec. 1973	Plt. Path.	Graduate Student Texas A&M University
NUNEZ, Ruben D.	Aug. 1973	Agric. Econ.	Graduate Student University of Delaware
ORSINI, Rafael	Aug. 1973	An. Sci.	Undergraduate Student Texas A&M University
PINA, Casimiro	Aug. 1973	Food Tech.	Graduate Student University of California at Davis
QUEZADA, Norberto A.	Dec. 1973	Agric. Econ.	Graduate Student University of California at Davis
RAVELO, Carlos, J.	Dec. 1973	Agric. Eng.	Graduate Student Texas A&M University
SUERO, Bienvenido T.	Dec. 1973	Agronomy	Graduate Student Texas A&M University
VALDEZ, Fernando	May 1974	Rur. Soc.	Graduate Student Texas A&M University
VASQUEZ, Jose	Dec. 1975	Agronomy	Undergraduate Student Texas A&M University

EDUCATIONAL CREDIT FOUNDATION SPONSORED STUDENTS - PRESENT (Continued)

<u>NAME</u>	<u>GRADUATION DATE</u>	<u>MAJOR FIELD</u>	<u>EMPLOYMENT</u>
VICTORIA, Chery A.	Aug. 1973	Phys. of Reprod.	Graduate Student Texas A&M University
VILLANUEVA, Guillermo	May 1974	Horticulture	Undergraduate Student Texas A&M University
VILLANUEVA, Saulo D.	May 1974	An. Sci.	Undergraduate Student Texas A&M University

OTHER SPONSORS

CORDERO, Jose M.	1969	Agronomy	Sub-Secretary of State for Research and Extension, Secretariat for Agriculture - Santo Domingo
CURIEL, Jorge	1971	Agric. Econ. M.S.	Agricultural Statistics, Secretariat for Agriculture, Technical Director Santo Domingo
De MOYA, Campos S.	1970	Agric. Econ.	Administrative Assistant, Gulf and Western - Santo Domingo
MOSCOSO, Wilfredo	1970	Food Tech.	Teacher, Instituto Superior de Agricultura - Santiago
ORNES, Horacio	1973	Agric. Econ.	Orientation

OTHER SPONSORES - Continued

<u>NAME</u>	<u>GRADUATION DATE</u>	<u>MAJOR FIELD</u>	<u>EMPLOYMENT</u>
ORTEGA, Emory	1973	Agric. Eng.	Engineer, Falconbridge Bonao
RAINIERI, Fernando	1969	Marketing	Gulf & Western Corporation Santo Domingo
RODRIGUEZ, Fco. Antonio	1970	Agronomy	Agricultural Loan Officer, Chase Manhattan Bank - Santo Domingo
RODRIGUEZ, Luciano	1970	Agric. Eng.	Alcoa Aluminum Company Pedernales
SUERO, Camilo	1970	Dairy Sci.	Director Dairy Program, Dominican Development Foundation - Santo Domingo
VINAS-ROMAN, Jaime	1966	Agric. Educ. Master of Educ.	Dean of Science, UNPHU Santo Domingo

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OTHER SPONSORES - PRESENT

ESPAILLAT, Jose	Aug. 1973	An. Sci.	Undergraduate Student Texas A&M University
PINA, Angel	Dec. 1973	An. Sci.	Graduate Student Texas A&M University