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CIAT

TRAINING AND CONFERENCES
ANNUAL REPORT
1979

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As CIAT's commodity programs generate new promising technology, national research programs must be prepared to best make use of the germplasm materials and related information being developed on beans, cassava, rice and tropical pastures. Both cooperative and independent research must be done on these commodities. Awareness of this challenge is evident from the increasing demand of institutions in numerous countries for training opportunities at CIAT in several alternatives offered namely short intensive courses, medium duration internships and MS and Ph.D. theses research. Figure 1 shows an increase in number of training participants in 1979 over the previous year, with a total of 398 - professionals being trained at CIAT this year. Of these, 336 completed their training while the remainder will continue into 1980. Almost all of the training is focused on specific commodities and is aimed at increasing the competency and knowledge of commodity research workers. In a few cases, participants are selected from among leaders of extension or development organizations that validate technology and help unite research and extension efforts on a given commodity in the countries, enabling new technologies to be efficiently transferred to producers. To further help in this transfer, CIAT lends a limited amount of assistance to selected national programs in organizing and conducting commodity training courses within the countries.

ACHIEVING CRITICAL MASS

Since 1976 much effort has been placed upon rapidly achieving a "critical



mass " of research workers in each commodity. Short intensive courses lasting four to six weeks were designed for this purpose. Table 1 shows the number of professionals trained in intensive courses, and in other categories, by each commodity program during 11 years of training at CIAT. These persons now constitute a major part of national research and ex tension programs on beans, cassava, rice and tropical pastures. Some, however, are known to have moved to other jobs, or been promoted in their own organization. This requires training of replacements. Other pro fessionals also need to be trained as national programs expand.

STRENGTHENING RESEARCH CAPABILITY

Once a critical mass has been achieved more solid, longer-term training is justified for the future. It is expected that the Center will offer training alternatives to best contribute to solidifying and strengthening of national research programs. Medium-term internships and MS thesis research would be encouraged.

A Sustained Role for Short, Intensive Courses

Intensive courses are now recognized as the best and most rapid way to establish an updated multidisciplinary base-knowledge on crop characteris tics, research strategies and methodologies, and existing and new technologies. These courses were offered in all commodity programs in 1979 (Figure 2) .

Short Intensive Courses

A special 8-week course was offered for the first time on "Meristem Tissue Culture of Cassava ". Seven scientists, from the Philippines (1), Indone sia (1), Malaysia (2), Thailand (2), and Sri-Lanka (1), participated. Although such special training is intended for facilitating the exchange

of pathogen-free germplasm between CIAT and Asian countries and between these countries themselves, training in this technique will also help to achieve fast multiplication of new varieties.

During the phase-out of its activities the Swine Unit completed its training operations with an intensive course held in Bolivia for participants from six countries in South América.

INTERNSHIPS AND THESIS RESEARCH: THE MAJOR PART OF TRAINING EFFORTS

The categories of postgraduate interns, visiting research associates and thesis scholars in 1979, constituted 52% of the enrollment and 82% of the man-months of CIAT's training. These medium-and long-term training commitments continue to represent the greater proportion of training activities at CIAT. Table 2 shows the number of participants in 1979, by commodity program and support units in each category; Table 3, shows their distribution by field of specialization; and Table 4, the countries from which they came. Table 5 lists all training participants by name, home country and commodity/discipline of training.

MS and Ph.D., Thesis Training

CIAT welcomes professionals from national institutions while pursuing academic MS and Ph.D degrees in selected universities who wish to conduct their thesis research at this Center. A limited amount of funding was granted this year by the UNDP for ten MS scholarships. Twenty-three research scholars participated in the MS program in 1979, ten in beans, three in cassava, one in rice and eight in tropical pastures. In addition, six visiting research associates conducted Ph.D thesis research.

FINANCING OF TRAINING

CIAT's Core resources and UNDP special project funds were the main sources of support for training in 1979. Other agencies and institutions contributed by sponsoring individuals or groups. Sponsors are listed in Table 6 with the number of professionals and man-months of support financed. Deserving special mention is the funding of 16 participants of the VI Intensive Course on Bean Research by the German Foundation for Agricultural Development.

ASSISTANCE TO IN-COUNTRY TRAINING

As part of a special project, funded by the UNDP, CIAT provided assistance in organizing intensive courses on rice, in Honduras, and on rice and cassava, in the Dominican Republic.

Another project funded by the IDB to CENSA in El Salvador provided assistance for in-country courses on beans, maize, systems and on seed production. UNDP funding at CIAT and IDB resources in Honduras jointly supported a course on bean production in that country, in preparation for the release of two new bean varieties selected from CIAT lines by former trainees. CIAT's Bean Program assisted ICA with a course in Huila, Colombia and the Cassava Program assisted with a course in Sincelejo, on the north coast of Colombia.

TRAINING IN RESEARCH SUPPORT FIELDS

The Center undertakes a limited amount of training in fields providing research support, namely, Documentation, Station Operations, Biometrics, Soil-Phosphorus Relationship and more recently, on Production of

Training Materials. Tables 2 and 3 show the number of professionals in these fields.

Documentation

A special 8-week course in Documentation was taught to 18 participants. Emphasis was given to the formation and operation of documentation centers for CIAT's commodities, a CIAT innovation that has rapidly gained popularity among researchers.

Experiment Station Management

Four managers of experiment stations, from Brazil, Chile, Colombia and Ecuador were trained in five-month internship programs.

Training Materials

Concurrently with developing audiotutorial units at CIAT for use as training materials, four persons were trained to facilitate the adaptation and distribution of these materials for a pilot effort in selected countries.

TRAINING IN SEED PRODUCTION AND TECHNOLOGY

As new varieties are released in countries of the region a sound and efficient system for the timely distribution of high quality seeds is essential. The Seed Unit, with the cooperation of Mississippi State University (USA), conducted a six-week intensive course on seed production and technology for 37 participants from official seed programs and private companies in Latin America.

CONFERENCES

Conferences—as meetings, seminars, workshops or simposia—have been adopted at CIAT as an essential means to assist in the integration and operation of commodity research networks and for exchanging information on new scientific developments. Twenty-eight major conferences were held in 1979, nine of which CIAT sponsored or co-sponsored (Tables 7 and 8). In addition 21, 90-minute seminars were offered by CIAT senior scientists, departing trainees or visitors.

A large group of participants, attended the workshop on the regional trials network for adaptation of forage species. One hundred and thirty scientists from Australia, Bolivia, Brazil, Colombia, Cuba, Ecuador, Guyana, Jamaica, México, Nicaragua, Perú, Surinam, Trinidad and Venezuela participated.

The Rice Program held its biannual workshop on the International Rice Testing Program for Latin America jointly sponsored by CIAT and IRRI. It was followed by a special workshop on rice blast.

The Bean Program held its first Workshop on Bean Diseases which was followed by a Workshop on Bean Breeding. Participants in the latter workshop gathered to observe and select advanced breeding lines in CIAT fields.

Directors of research from national institutions in the region came to CIAT in May to become acquainted with the advances in research during 1978. Representatives from the Communications and Training sections at CIP, CIMMYT, and CIAT gathered in November to exchange experiences and make proposals of how they could best lend support to their centers' international cooperation activities. In March, the Agricultural Development Council

promoted a workshop on pre-release testing, focusing on rice and cassava technology.

During the year, CIAT hosted a number of events organized by Colombian agriculturally oriented institutions, some of which held their annual national congresses. Several of these meetings included sessions dealing with CIAT's commodities and involved CIAT's progress.

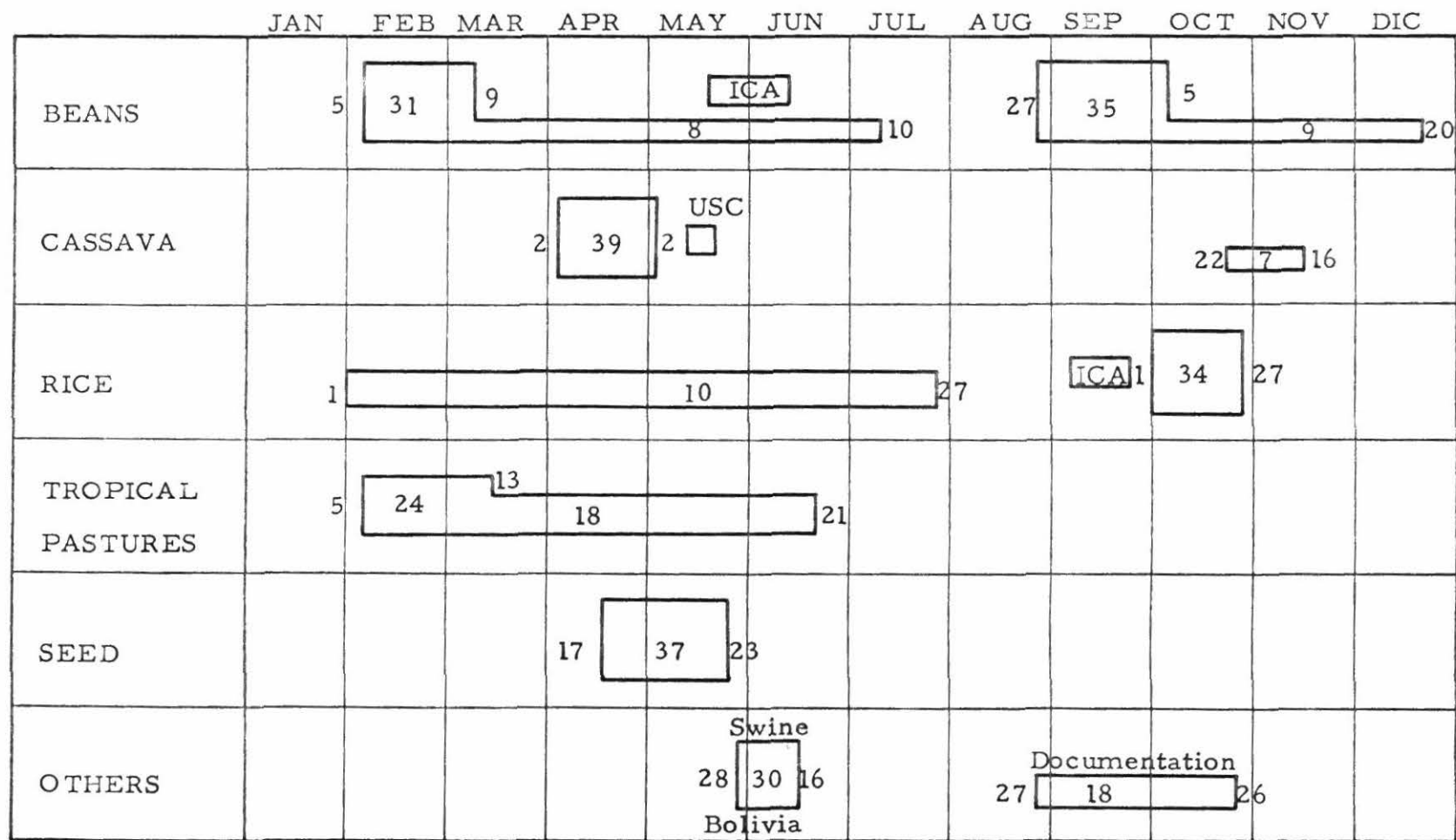


Figure 2. STRUCTURED GROUP COURSES ON CIAT'S COMMODITIES IN 1979.

TABLE 1

<u>COMMODITY PROGRAM</u>	<u>YEAR</u>											<u>TOTAL</u>
	<u>1969</u>	<u>1970</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	
BEANS	-	-	2	2	3	9	22	27	50	95	114	324
CASSAVA	1	1	2	10	7	9	15	46	12	78	68	249
RICE	2	9	-	33	7	10	5	11	16	29	49	171
SWINE	-	2	5	9	5	4	8	20	29	30	-	112
TROPICAL PASTURES	8	19	14	31	30	29	44	29	34	22	42	302
CROP PRODUCTION SPECIALISTS	-	-	21	15	27	38	25	-	1	-	-	127
DOCUMENTATION	-	-	-	-	1	1	1	3	4	16	18	44
SEED PRODUCTION	-	-	-	-	-	6	-	-	34	29	37	106
OTHERS	19	12	6	-	23	11	37	10	12	10	11	151
TOTAL	30	43	50	100	103	117	157	146	192	309	339	1,586

NUMBER OF TRAINING PARTICIPANTS IN CIAT, PER COMMODITY PROGRAM SINCE 1969

Table 2

PROFESSIONALS TRAINED AT CIAT IN 1979, BY TRAINING CATEGORY

PROGRAM	CATEGORY OF TRAINING							TOTAL
	Posdoctoral Fellows	Visiting Research Associates	Research Scholars	Posgraduate Research Interns	Posgraduate Production Interns	Special Trainees	Short Course Participants	
	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months	
BEANS	5 (45.0)	15 (100.0)	10 (74.0)	39 (105.5)	-	3 (10.0)	66 (67.0)	138 (401.5)
CASSAVA	3 (31.0)	8 (70.0)	3 (26.0)	11 (50.5)	-	10 (19.5)	46 (48.0)	81 (243.0)
RICE	-	1 (8.0)	1 (4.0)	3 (14.0)	10 (58.0)	3 (4.5)	34 (34.0)	52 (120.5)
TROPICAL PASTURES*	<u>7 (51.0)</u>	<u>10 (79.0)</u>	<u>8 (54.0)</u>	<u>9 (42.0)</u>	<u>24 (102.0)</u>	<u>4 (5.0)</u>	<u>-</u>	<u>62 (333.0)</u>
Total Commodities Others:	15 (127)	34 (255)	22 (158)	62 (213)	34 (160)	20 (40)	146 (147)	333 (1099)
BIOMETRICS	-	-	-	1 (10.0)	-	-	-	1 (10.0)
SEED PRODUCTION	-	-	1 (5.0)	-	-	-	37 (37.0)	38 (42.0)
LIBRARY AND INFORMATION SERVICES	-	-	-	-	-	-	18 (34.0)	18 (34.0)
STATION OPERATIONS MANAGEMENT	-	-	-	4 (19.0)	-	-	-	4 (19.0)
COMMUNICATION SERVICES	-	-	-	4 (6.0)	-	4 (13.0)	-	8 (19.0)
TOTAL	15 (127.0)	34 (255.0)	23 (163.0)	71 (247.0)	34 (160.0)	24 (52.0)	201 (218.0)	402 (1,222.0)
TOTAL 1978	6 (25.0)	6 (26.0)	9 (74.0)	49 (218.0)	52 (267.0)	12 (48.0)	171 (188.0)	304 (846.0)

*BEEF, before 1979

TABLE 3

PROFESSIONALS TRAINED AT CIAT IN 1979 BY COMMODITY DISCIPLINE OF SPECIALIZATION AND CATEGORY OF TRAINING

COMMODITY/DISCIPLINE OF SPECIALIZATION	CATEGORY OF TRAINING							PROGRAM SUB-TOTALS
	POSTDOCTORAL FELLOWS	VISITING RESEARCH ASSOCIATES	RESEARCH SCHOLARS	POSTGRADUATE RESEARCH INTERNS	POSTGRADUATE PRODUCTION INTERNS	SPECIAL TRAINEES	SHORT COURSE PARTICIPANTS	
	No.-Months	No.-Months	No.-Months	No.-Months	No.-Months	No.-Months	No.-Months	No.-Months
Beans								
Agronomy	-	1 (4.0)	2 (13.0)	13 (47.5)	-	-	-	16 (64.5)
Biometrics	-	1 (3.0)	-	-	-	1 (1.0)	-	2 (4.0)
Crop Mechanization	-	-	-	-	-	1 (1.0)	-	1 (1.0)
Economics	-	1 (12.0)	2 (14.0)	2 (5.5)	-	-	-	5 (31.5)
Entomology	1 (12.0)	-	-	5 (13.5)	-	-	-	6 (25.5)
Germplasm	-	2 (17.0)	-	1 (0.5)	-	-	-	3 (17.5)
Plant Breeding	1 (12.0)	5 (34.0)	1 (12.0)	6 (13.5)	-	-	-	13 (71.5)
Plant Pathology	-	2 (7.0)	3 (20.0)	5 (10.5)	-	-	-	10 (37.5)
Plant Physiology	2 (15.0)	2 (11.0)	1 (11.0)	-	-	-	-	5 (37.0)
Production	-	-	-	-	-	-	66 (67.0)	66 (67.0)
Plant Virology	1 (6.0)	1 (12.0)	-	2 (2.0)	-	1 (8.0)	-	5 (28.0)
Soil Microbiology	-	-	1 (4.0)	3 (9.0)	-	-	-	4 (13.0)
Training	-	-	-	2 (3.5)	-	-	-	2 (3.5)
BEANS TOTAL	5 (45.0)	15 (100.0)	10 (74.0)	39 (105.5)	-	3 (10.0)	66 (67.0)	138 (401.5)

COMMODITY/DISCIPLINE OF SPECIALIZATION	POSTDOCTORAL FELLOWS	VISITING RESEARCH ASSOCIATES	RESEARCH SCHOLARS	POSTGRADUATE RESEARCH INTERNS	POSTGRADUATE PRODUCTION INTERNS	SPECIAL TRAINEES	SHORT COURSE PARTICIPANTS	PROGRA SUB-TOT
Cassava	No.-Months	No.-Months	No.-Months	No.-Months	No.-Months	No.-Months	No.-Months	No.-Months
Agronomy	-	1 (3.0)	-	2 (10.0)	-	1 (1.0)	-	4 (14.0)
Communication	-	-	-	1 (0.5)	-	-	-	1 (0.5)
Economics	-	-	-	1 (5.0)	-	2 (7.0)	-	3 (12.0)
Entomology	1 (12.0)	2 (19.0)	1 (12.0)	-	-	-	-	4 (43.0)
Germplasm	-	-	-	2 (2.0)	-	3 (2.5)	-	5 (4.5)
Plant Breeding	1 (7.0)	-	-	1 (10.0)	-	-	-	2 (17.0)
Plant Pathology	-	3 (30.0)	-	2 (9.0)	-	1 (1.0)	-	6 (40.0)
Plant Physiology	-	1 (12.0)	2 (14.0)	1 (11.0)	-	2 (4.0)	7 (7.0)	13 (48.0)
Production	-	-	-	-	-	-	39 (39.0)	39 (39.0)
Rural Sociology	-	1 (6.0)	-	-	-	1 (4.0)	-	2 (10.0)
Special Studies	1 (12.0)	-	-	-	-	-	-	1 (12.0)
Weed Control	-	-	-	1 (3.0)	-	-	-	1 (3.0)
CASSAVA TOTAL	3 (31.0)	8 (70.0)	3 (26.0)	11 (50.5)	-	10 (19.5)	46 (46.0)	81 (243.0)

COMMODITY/DISCIPLINE OF SPECIALIZATION	POSTDOCTORAL FELLOWS	VISITING RESEARCH ASSOCIATES	RESEARCH SCHOLARS	POSTGRADUATE RESEARCH INTERNS	POSTGRADUATE PRODUCTION INTERNS	SPECIAL TRAINEES	SHORT COURSE PARTICIPANTS	PROGRAM SUB-TOTALS
	No.-Months	No.-Months	No.-Months	No.-Months	No.-Months	No.-Months	No.-Months	No.-Months
Rice								
Agronomy	-	1 (6.0)	-	1 (6.0)	-	-	-	2 (12.0)
Entomology	-	-	1 (4.0)	-	-	-	-	1 (4.0)
Plant Breeding	-	-	-	2 (8.0)	-	1 (0.5)	-	3 (8.5)
Plant Pathology	-	-	-	-	-	2 (4.0)	-	2 (4.0)
Production	-	-	-	-	10 (58.0)	-	34 (34.0)	44 (92.0)
RICE TOTAL	-	1 (6.0)	1 (4.0)	3 (14.0)	10 (58.0)	3 (4.5)	34 (34.0)	52 (120.5)

COMMODITY/DISCIPLINE OF SPECIALIZATION	POSTDOCTORAL FELLOWS	VISITING RESEARCH ASSOCIATES	RESEARCH SCHOLARS	POSTGRADUATE RESEARCH INTERNS	POSTGRADUATE PRODUCTION INTERNS	SPECIAL TRAINEES	SHORT COURSE & PARTICIPANTS	PROGRAM SUB-TOTALS
Tropical Pastures	No.-Months	No.-Months	No.-Months	No.-Months	No.-Months	No.-Months	No.-Months	No.-Months
Agronomy	2 (11.0)	2 (14.0)	4 (24.0)	1 (6.0)	-	-	-	9 (55.0)
Animal health	-	-	1 (1.0)	2 (10.0)	-	-	-	3 (11.0)
Economics	2 (23.0)	1 (5.0)	1 (12.0)	-	-	-	-	4 (40.0)
Entomology	1 (7.0)	-	-	-	-	-	-	1 (7.0)
Germplasm	-	1 (2.0)	-	1 (5.0)	-	-	-	2 (7.0)
Production	-	-	-	-	24 (102.0)	-	-	24 (102.0)
Seed Production	-	-	-	1 (4.0)	-	-	-	1 (4.0)
Soil Microbiology	1 (7.0)	1 (10.0)	-	-	-	-	-	2 (17.0)
Soils	-	2 (21.0)	2 (17.0)	3 (11.0)	-	3 (4.0)	-	10 (53.0)
Stabishment	-	-	-	-	-	1 (1.0)	-	1 (1.0)
Utilization	1 (3.0)	3 (27.0)	-	1 (6.0)	-	-	-	5 (36.0)
TROPICAL PASTURES TOTAL	7 (51.0)	10 (79.0)	8 (54.0)	9 (42.0)	24 (102.0)	4 (5.0)	-	62 (333.0)

COMMODITY/DISCIPLINE OF SPECIALIZATION	POSTDOCTORAL FELLOWS	VISITING RESEARCH ASSOCIATES	RESEARCH SCHOLARS	POSTGRADUATE RESEARCH INTERNS	POSTGRADUATE PRODUCTION INTERNS	SPECIAL * TRAINEES	SHORT COURSE PARTICIPANTS	PROGRAM SUB-TOTALS
Others	No.-Months	No.-Months	No.-Months	No.-Months	No.-Months	No.-Months	No.-Months	No.-Months
Biometrics	-	-	-	1 (10.0)	-	-	-	1 (10.0)
Communication Services	-	-	-	4 (6.0)	-	4 (13.0)	-	8 (19.0)
Library an Information Services	-	-	-	-	-	-	18 (34.0)	18 (34.0)
Seed Production	-	-	1 (5.0)	-	-	-	37 (37.0)	38 (42.0)
Stations operation Management	-	-	-	4 (19.0)	-	-	-	4 (19.0)
OTHERS TOTAL	-	-	1 (5.0)	9 (35.0)	-	4 (13.0)	55 (71.0)	69 (124.0)

Table 4.

PROFESSIONALS TRAINED AT CIAT IN 1979, BY COUNTRY OF ORIGIN AND COMMODITY IN WHICH TRAINED

COUNTRY	COMMODITY PROGRAM									TOTAL
	Beans	Cassava	Rice	Tropical Pastures	Seed Production	Library and Information Services	Station Operations management	Communication	Others	
Latin America and the Caribbean										
Antigua	-	-	-	1	-	-	-	-	-	1
Argentina	6	-	1	1	-	-	-	-	-	8
Belize	-	-	-	3	-	-	-	-	-	3
Bolivia	3	1	1	3	2	-	-	-	-	10
Brazil	28	14	13	6	3	4	1	1	-	70
Chile	3	-	-	1	2	-	1	-	-	7
Colombia	12	16	7	11	11	2	1	3	2	65
Costa Rica	8	2	6	-	-	-	-	1	-	17
Cuba	11	3	2	4	-	1	-	1	-	22
Dominican Republic	5	10	1	1	4	1	-	-	-	22
Ecuador	6	2	5	3	2	1	1	-	-	20
El Salvador	7	1	-	-	2	2	-	2	-	14
Guatemala	9	-	1	1	1	1	-	-	-	13
Guyana	-	1	-	-	-	-	-	-	-	1
Haiti	1	2	2	-	-	-	-	-	-	5
Honduras	4	1	3	-	1	-	-	-	-	9
Jamaica	-	-	-	-	-	1	-	-	-	1
Mexico	9	3	3	-	1	3	-	-	-	19
Nicaragua	2	-	-	3	-	-	-	-	-	5

(continued)

Table 4. (Continuation)

COUNTRY	Beans	Cassava	Rice	Tropical Pastures	Seed Production	Library and Information Services	Station Operations management	Communication	Others	TOTAL
Panama	-	-	2	-	1	-	-	-	-	3
Peru	6	1	3	6	5	2	-	-	-	23
Uruguay	-	-	1	-	-	-	-	-	-	1
Venezuela	-	2	-	8	3	-	-	-	-	13
Other Countries										
Australia	1	-	-	1	-	-	-	-	-	2
Belgium	3	-	-	-	-	-	-	-	-	3
Cameroon	-	1	-	-	-	-	-	-	-	1
Holland	1	5	-	2	-	-	-	-	-	8
Indonesia	-	1	-	-	-	-	-	-	-	1
Japan	-	1	-	-	-	-	-	-	-	1
Kenya	3	-	-	-	-	-	-	-	-	3
Malaysia	-	2	-	-	-	-	-	-	-	2
Philippines	-	1	-	-	-	-	-	-	-	1
Sri Lanka	1	1	-	-	-	-	-	-	-	2
Tanzania	2	-	-	-	-	-	-	-	-	2
Thailand	-	2	-	-	-	-	-	-	-	2
United Kingdom	-	1	-	-	-	-	-	-	-	1
USA	7	3	1	5	-	-	-	-	-	16
West Germany	-	4	-	2	-	-	-	-	-	6
TOTAL	138	81	52	62	38	18	4	8	2	402

Table 5

PROFESSIONALS TRAINED AT CIAT DURING 1979

Name	Country	Program/Discipline	Months of training completed as of Dec. 31, 1979	Status as of Dec. 31, 1979
Visiting Research Associates				
Arcia, Gustavo	Nicaragua	Beans/economics	12	P
Boehnert, Elke	West Germany	Tropical Pastures/management and util.	9	P
Buruchara, Robin	Kenya	Beans/plant pathology	3	P
Byrne, David	USA	Cassava/entomology	7	C
De Carvalho, José Ruy	Brazil	Beans/biometrics	3	C
Debouck, Daniel	Belgium	Beans/plant breeding	8	C
Delgadillo, Guido	Canada	Tropical Pastures/soils-plant nutrition	9	C
Díaz, Jorge Luiz	Nicaragua	Tropical Pastures/management and util.	12	P
Elango, Fritz	Cameroon	Cassava/plant pathology	7	C
Garcia, Aurora Susana	Argentina	Beans/plant breeding	12	P
Gepts, Paul	Belgium	Beans/germplas-genetic resources	12	P
Jansen, Hendrik	Holland	Tropical Pastures/legumes agronomy	12	P
Jayasinghe, Upali	Sri Lanka	Beans/virology	12	P
Katherman, Mary	USA	Beans/plant pathology	4	P
Kornegay, Julia	USA	Beans/plant breeding	1	P
Kretchmer, Paul	USA	Beans/plant physiology	8	C
Laberry, Rafael	Peru	Cassava/plant pathology	12	P
Levine, Joel Martin	USA	Tropical Pastures/economics	5	C
Lohr, Bernhard	West Germany	Cassava/entomology	12	P
Lyman, Judith	USA	Beans/plant breeding	12	P
Mason, Stephen	USA	Cassava/agronomy	2	C
Mozzer, Otto	Brazil	Tropical Pastures/germplasm	2	C

Name	Country	Program/Discipline	Months of training completed as of Dec. 31, 1979	Status as of Dec. 31, 1979
Muller, Frank	West Germany	Tropical Pastures/legumes agronomy	2	C
Okonko, Albert	Kenya	Beans/agronomy	4	P
Paretas, Juan Jose	Cuba	Tropical Pastures/management and util.	6	C
Sánchez, Luis Fernando	Argentina	Tropical Pastures/soils science	12	P
Speidel, Karen	USA	Tropical Pastures/soils microbiology	10	P
Strobosch, Peter Jan	Holland	Cassava/rural sociology	6	C
Vanderborght, Thierry	Belgium	Beans/germplasm-genetic resources	5	P
Veltkamp, Hendrik Jan	Holland	Cassava/plant physiology	12	P
Wheatley, Christopher	Unit. Kingdom	Cassava/plant pathology	11	P
Zimmerman, William	USA	Rice/agronomy	6	P

Research Scholars

Abaunza, José Arkangel	Nicaragua	Tropical Pastures/agronomy	6	P
Alfaro, Rodrigo	Costa Rica	Beans/agronomy	11	P
Alvarez, Germán	Colombia	Beans/plant pathology	2	C
Alvarez, José Francisco	Costa Rica	Rice/entomology	4	P
Ayarza, Miguel Angel	Colombia	Tropical Pastures/soils-plant nutrition	5	C
Bascur, Gabriel	Chile	Beans/plant physiology	11	P
Castellanos, Victor Hugo	Dom Rep	Cassava/plant physiology	10	P
Charry, Alvaro	Colombia	Tropical Pastures/economics	12	P
Cuesta, Pablo Antonio	Colombia	Tropical Pastures/agronomy	6	P

Name	Country	Program/Discipline	Months of training completed as of Dec. 31, 1979	Status as of Dec. 31, 1979
De Cantillo, Stella	Colombia	Cassava/plant physiology	4	C
Díaz, José Manuel	Guatemala	Beans/plant pathology	12	P
Flores, Adalberto	Venezuela	Tropical Pastures/agronomy	6	P
Galindo, José	Colombia	Beans/plant pathology	6	P
Qualdrón, Ovidio Bruno	Guatemala	Beans/agronomy	2	P
Madruga, Claudio Roberto	Brazil	Tropical Pastures/animal health	1	C
Mendoza, Alejandro	Colombia	Others/seed production	5	P
Peña, Jorge	Colombia	Cassava/entomology	12	P
Ramos, Federico	Honduras	Beans/plant breeding	12	P
Restrepo, Luis Fernando	Colombia	Beans/economics	5	C
Rolando, Carlos Xavier	Ecuador	Tropical Pastures/soils	12	P
Sobrinho, José Marcelino	Brazil	Tropical Pastures/agronomy	6	P
Stabile, Martin	Argentina	Beans/economics	9	C
Villarreal, Leslie	Colombia	Beans/soils microbiology	4	P

Postgraduate Research Interns

Acuña, José William	Ecuador	Beans/plant breeding	0.5	C
Aguilar, Jorge	Ecuador	Others/station operations manag.	5	C
Alonso, Lisimaco	Colombia	Others/station operations manag.	5	C
Araujo, Marco Antonio	Costa Rica	Beans/agronomy	1	C
Beuzeville, Roger	Perú	Rice/plant breeding	6	C
Cañas, Gilberto	El Salvador	Others/communication	1	C

Name	Country	Program/Discipline	Months of training completed as of Dec. 31, 1979	Status as of Dec. 31, 1979
Chiappe, Luis	Peru	Beans/training	0.5	C
Costa, Manoel	Brazil	Cassava/communication	0.5	C
De la Cruz, Jesús Hipólito	Peru	Beans/plant breeding	1	C
De Oliveira, Sebastiao	Brazil	Cassava/germplasm-genetic resources	1	C
De Paula, Luiz Augusto	Brazil	Beans/agronomy	2	C
De Sales, Antonio	Brazil	Cassava/agronomy	8	C
DePorre, Jules	USA	Tropical Pastures/animal health	9	C
Domínguez, Jeannette	Dom Rep	Cassava/weed control	3	C
Duquezne, Eumelia	Cuba	Beans/agronomy	6	C
Dussán, Luis Eduardo	Colombia	Rice/agronomy	6	P
Faure, Benito	Cuba	Beans/agronomy	6	C
Fraire, Roberto	Mexico	Beans/plant pathology	2	C
Gathee, Juliet Wangui	Kenya	Beans/economics	4	C
Gomes, María Nemmaura	Brazil	Beans/plant pathology	0.5	C
González, Manuel	Dom Rep	Beans/agronomy	2	C
Hernández, Julio César	Nicaragua	Beans/entomology	1	C
Hernández, Teresita	Cuba	Beans/plant pathology	2	C
Irastorza, Maria Helena	Argentina	Beans/agronomy	2	C
Irias, Manuel	Honduras	Cassava/agronomy	2	C
Kano, Yoshiaki	Japan	Cassava/plant breeding	10	C
Kluthcouski, Joao	Brazil	Beans/agronomy	0.5	C
Kramm, Victor	Chile	Beans/virology	1	C
López, Francisco	Colombia	Cassava/economics	5	P
Méndez, Wotzbeli	Guatemala	Beans/agronomy	0.5	C
Mila, José Angel	Cuba	Cassava/germplasm-genetic resources	1	C
Miura, Lucas	Brazil	Cassava/plant pathology	1	C
Molina, Mario Alberto	Costa Rica	Beans/agronomy	1	C

Name	Country	Program/Discipline	Months of training completed as of Dec. 31, 1979	Status as of Dec. 31, 1979
Monzón, Felicito	Guatemala	Beans/germplas-genetic resources	0.5	C
Morales, Gustavo	Chile	Others/station operations manag.	4	C
Morales, Adrian	Costa Rica	Beans/agronomy	3	C
Moseley, Elio	Cuba	Beans/training	3	C
Mpunami, Anatolia	Tanzania	Beans/plant pathology	3	C
Navarro, Gilberto	Cuba	Tropical Pastures/seed production	4	C
Nicoleti, Geni Helena	Brazil	Beans/economics	1	C
Nuila, Lidia Rosalia	El Salvador	Beans/plant breeding	2	C
Núñez, Eddy	Dom Rep	Beans/entomology	5	C
Ordoñez, José María	Honduras	Beans/agronomy	3	C
Padilla, Flavio	Ecuador	Beans/plant pathology	2	C
Palacios, Arturo	Mexico	Beans/soil microbiology	4	P
Palta, Jairo	Colombia	Cassava/plant physiology	11	P
Patten, Grafton	Belize	Tropical Pastures/soil-legumes agronomy	6	C
Pedrique, Carlos	Venezuela	Tropical Pastures/animal health	1	C
Pérez, Bertha	Cuba	Others/commucation	2	C
Pérez, Wilfredo	Cuba	Tropical Pastures/soil phosphate	4	C
Phillip, Perry Edson	Antigua	Tropical Pastures/legumes agronomy	6	C
Pineda, Ana Paulina	El Salvador	Beans/soil microbiology	1	C
Rodríguez, Carlos	Costa Rica	Beans/agronomy	3	C
Rodríguez, Jesús Humberto	Mexico	Rice/plant breeding	2	C
Rodríguez, Jorge Celso	Peru	Tropical Pastures/management and util.	6	P
Rodríguez, José Isabel	Cuba	Beans/entomology	5	C
Román, Ana Lucia de	Colombia	Others/communication	2	P
Rosario, Gloria Maritza	Dom Rep	Beans/plant breeding	4	C
Ruíz, Tomás Elías	Cuba	Tropical Pastures/germplas-genetic resour	5	C
Sánchez, Carlos	Venezuela	Tropical Pastures/soils-plant nutrition	1	C

Name	Country	Program/Discipline	Months of training completed as of Dec. 31, 1979	Status as of Dec. 31, 1979
Scholz, Marcos	Brazil	Others/station operations manag.	4	C
Soto, Jesús	Bolivia	Beans/plant breeding	2	C
Teixeira, Alvaro	Brazil	Beans/soils microbiology	4	P
Torres, Celina	Colombia	Cassava/plant pathology	8	C
Urdanivia, Renzo Leoncio	Peru	Beans/virology	1	C
Valdez, Carlos	El Salvador	Others/communication	1	C
Valle, Napoleón	Ecuador	Beans/entomology	2	C
Vásquez, Nelson	El Salvador	Beans/plant breeding	4	C
Vieira, Rogerio	Brazil	Beans/agronomy	0.5	C
Yokoyama, Massaru	Brazil	Beans/entomology	0.5	C
Zapata, Hugo Henry	Colombia	Others/biometrics	10	P

Postgraduate Production Interns

Aguilera, Victor	Honduras	Rice/production	6	C
Alvarado, Rurico	Belize	Tropical Pastures/production	5	C
Avalos, Constantino	Nicaragua	Tropical Pastures/production	5	C
Basurco, Juan Carlos	Peru	Tropical Pastures/production	2	C
Braga, Adalberto	Brazil	Tropical Pastures/production	4	C
Buelvas, Pepe Miguel	Colombia	Tropical Pastures/production	5	C
Corado, Manuel José	Venezuela	Tropical Pastures/production	5	C

Name	Country	Program/Discipline	Months of training completed as of Dec. 31, 1979	Status as of Dec. 31, 1979
Degiovanni, Victor	Colombia	Rice/production	6	C
Donoso, Manuel	Ecuador	Rice/production	6	C
Faria, Jesús	Venezuela	Tropical Pastures/production	5	C
Freire, Manuel Tarquino	Ecuador	Tropical Pastures/production	5	C
Gallardo, Alfredo	Mexico	Rice/production	6	C
Gómez, Luis Alberto	Colombia	Tropical Pastures/production	5	C
Gutiérrez, Pompilio	Colombia	Rice/production	6	C
Llamosas, Alvaro	Brazil	Tropical Pastures/production	3	C
Maneus, Serge	Haiti	Rice/production	6	C
Morales, Jaime Henry	Colombia	Rice/production	6	C
Moreno, Ricardo	Bolivia	Tropical Pastures/production	3	C
Muñoz, Kleber Amador	Ecuador	Tropical Pastures/production	5	C
Orozco, Diego	Colombia	Tropical Pastures/production	5	C
Parra, Eudomar	Venezuela	Tropical Pastures/production	5	C
Peña Wladislao	Dom Rep	Tropical Pastures/production	5	C
Pérez, Oscar	Dom Rep	Rice/production	6	C
Putnam, Roldán	Peru	Tropical Pastures/production	1	C
Quintero, Homero	Mexico	Rice/production	5	C
Ribeiro, José	Brazil	Tropical Pastures/production	1	C
Rodríguez, Jorge Celso	Peru	Tropical Pastures/production	5	C
Rojas, Julio César	Colombia	Tropical Pastures/production	5	C
Samur, César	Bolivia	Tropical Pastures/production	5	C
Sánchez, Carlos	Venezuela	Tropical Pastures/production	3	C
Sihuay, Jorge Daniel	Peru	Tropical Pastures/production	5	C
Smith, Rupert	Belize	Tropical Pastures/production	5	C
Tacury, Carlos	Ecuador	Rice/production	6	C
Torres, Guillermo René	Venezuela	Tropical Pastures/production	5	C

Name	Country	Program/Discipline	Months of training completed as of Dec. 31, 1979	Status as of Dec. 31 1979
Special Trainees				
Alvarez, Abraham	Colombia	Cassava/germplasm-genetic resour	1	C
Alvarez, José Francisco	Costa Rica	Rice/plant breeding	0.5	C
Ara, Miguel	Peru	Tropical Pastures/stablishment	1	C
Chala, Victor Hugo	Ecuador	Rice/plant pathology	2	C
Da Silva, Sostenes	Brazil	Beans/biometrics	1	C
De Jong, Gerard	Holland	Cassava/rural sociology	4	P
Echeverri, Camilo	Colombia	Others/communication	2	C
Figueredo, Francisco	Cuba	Beans/mechanization	1	C
Geurts, Peter	Holland	Tropical Pastures/soils	3	P
González, Fernando	Costa Rica	Others/communication	8	C
Heyde, Richard	West Germany	Cassava/plant physiology	2	C
Janssen, Willen	Holland	Cassava/economics	4	P
Marin, Javier	Colombia	Tropical Pastures/soils	0.5	C
Martinez, Paulina	Colombia	Cassava/germplas-genetic resources	0.5	C
Munroe, Leyland	Guyana	Cassava/plant pathology	1	C
Navarro, Rafael	Colombia	Cassava/germplas-genetic resources	1	C
Reis, Peri	Brazil	Others/communication	1	C
Salcedo, Mariano	Colombia	Cassava/agronomy	1	C
Sánchez, Fernando	Ecuador	Rice/plant pathology	2	C
Sauter, Henrich	West Germany	Cassava/plant physiology	2	C
Van der Noll, Ilona	Holland	Cassava/economics	3	P
Van Lent, Johannes	Holland	Beans/virology	8	C
Vélez, José	Colombia	Others/communication	2	C
Zapata, Raul	Colombia	Tropical Pastures/soils	0.5	C

Name	Country	Program/Discipline	Months of training completed as of Dec. 31, 1979	Status as of Dec. 31, 1979
Short Course Participants				
Acosta, Jorge Alberto	Mexico	Beans/production	1	C
Alexis, Reynold	Haiti	Cassava/production	1	C
Alvarado, Arnoldo	Venezuela	Others/seed production	1	C
Amat, Robert	Ecuador	Rice/production	1	C
Anchieta, José	Brazil	Cassava/production	1	C
Andrade, Helio	Brazil	Cassava/production	1	C
Apraez, Luis Vicente	Colombia	Others/seed production	1	C
Aramburu, Maria Jesus	Peru	Others/library and docum.	2	C
Araque, Cesar Tulio	Colombia	Cassava/production	1	C
Arguello, Orlando	Colombia	Cassava/production	1	C
Arismendi, Luis	Venezuela	Cassava/production	1	C
Arroyave, Arnulfo	Ecuador	Cassava/production	1	C
Baeta, Alberto	Brazil	Rice/production	1	C
Barcenas, Alberto	Colombia	Beans/production	1	C
Barnett, Isaac	Panama	Others/seed production	1	C
Bello, Leovigildo	Dom Rep	Cassava/production	1	C
Bezerra, Aldo	Brazil	Rice/production	1	C
Boller, Paulo	Brazil	Rice/production	1	C
Bonilla, Edmundo	Guatemala	Beans/production	1	C
Bonilla, José Roberto	Honduras	Rice/production	1	C
Bonilla, Ulises	Dom Rep	Cassava/production	1	C
Bustamante, Hugo	Bolivia	Others/seed production	1	C
Calvache, Jorge	Colombia	Others/seed production	1	C
Campos, Albino	Mexico	Beans/production	1	C

Name	Country	Program/Discipline	Months of training completed as of Dec. 31, 1979	Status as of Dec. 31, 1979
Cañas, Gilberto	El Salvador	Others/library and docum.	1	C
Carpio, Nephthali	Cuba	Cassava/production	1	C
Cevallos, Manuel	Ecuador	Beans/production	1	C
Chagas, José Mauro	Brazil	Beans/production	1	C
Chambizea, Julio Edgar	Peru	Others/seed production	1	C
Charpentier, Gilberth	Costa Rica	Beans/production	1	C
Chávez, Silverio Rafael	Dom Rep	Cassava/production	1	C
Chiappe, Luis	Peru	Beans/production	1	C
Córdoba, Luis Eduardo	Colombia	Beans/production	1	C
Cornejo, Tomás	El Salvador	Others/seed production	1	C
Cortinas, Héctor	Mexico	Beans/production	1	C
Costa, Manoel	Brazil	Cassava/production	1	C
Costa, William	Brazil	Rice/production	1	C
Cruz, Angel	Dom Rep	Others/seed production	1	C
Cuba, Nicanor	Bolivia	Beans/production	1	C
Cubero, Fernando	Costa Rica	Rice/production	1	C
De Araujo, Francisco	Brazil	Rice/production	1	C
De Araujo, Geraldo	Brazil	Beans/production	1	C
De Paula, Luiz Augusto	Brazil	Beans/production	1	C
De Sales, Antonio	Brazil	Cassava/production	1	C
Dias da Costa, Hugo	Brazil	Others/seed production	1	C
Diaz, Desiderio	Colombia	Others/seed production	1	C
Díaz, Lucrecia	Mexico	Others/library and docum.	2	C
Dittren, Americo	Dom Rep	Others/seed production	1	C
Domínguez, Jeannette	Dom Rep	Cassava/production	1	C
Duque, Amanda	Colombia	Others/library and docum.	2	C

Name	Country	Program/Discipline	Months of training completed as of Dec.31, 1979	Status as of Dec. 31 1979
Duquezne, Eumelia	Cuba	Beans/production	1	C
Ekanayake, Priyanwada	Sri Lanka	Cassava/plant physiology	1	C
Faure, Benito	Cuba	Beans/production	1	C
Fernández, Luiz	Brazil	Rice/production	1	C
Fernández, Sammy	Brazil	Rice/production	1	C
Fernández, Mariano	Dom Rep	Cassava/production	1	C
Ferreira, Maria	Brazil	Others/library and docum.	2	C
Fontana, Frederico	Brazil	Rice/production	1	C
Fraire, Roberto	Mexico	Beans/production	1	C
Gabriel, Peralte	Haiti	Rice/production	1	C
Gálvez, Gustavo	Guatemala	Rice/production	1	C
García, Carlos	Mexico	Beans/production	1	C
García, Iris	Mexico	Others/library and docum.	2	C
García, Jaime Luis	Colombia	Others/seed production	1	C
García, Orly	Honduras	Beans/production	1	C
Geney, Francisco	Colombia	Cassava/production	1	C
Gomes, María Nemmaura	Brazil	Beans/production	1	C
Goncalves, Valter	Brazil	Cassava/production	1	C
González, Manuel	Dom Rep	Beans/production	1	C
González, Victor	Mexico	Cassava/production	1	C
Gordón, Daniel	Panama	Rice/production	1	C
Grande, Rosa Amelia	Peru	Others/library and docum.	2	C
Grandi, Marcelo	Brazil	Beans/production	1	C
Grant, Rodolfo	Costa Rica	Rice/production	1	C
Guilherme, Regina Lucia	Brazil	Beans/production	1	C
Hernández, Fernando	Mexico	Beans/production	1	C
Hernández, Henio Alfredo	Colombia	Rice/production	1	C
Hernández, José Román	Dom Rep	Others/seed production	1	C

Name	Country	Program/Discipline	Months of training completed as of Dec. 31, 1979	Status as of Dec. 31,
Hernández, Martín Omar	Honduras	Rice/production	1	C
Hernández, Teresita	Cuba	Beans/production	1	C
Ibarra, Francisco	Mexico	Cassava/production	1	C
Inastorza, Maria Helena	Argentina	Beans/production	1	C
Jacques, Sorel	Haiti	Beans/production	1	C
Jarrin, Rene	Ecuador	Others/seed production	1	C
Klass, Gem	Jamaica	Others/library and docum.	2	C
Kluthcouski, Joao	Brazil	Beans/production	1	C
Kramm, Victor	Chile	Beans/production	1	C
Kratz, Edison Carlos	Brazil	Cassava/production	1	C
Landell, Ricardo	Brazil	Beans/production	1	C
Larios, Roberto	Honduras	Others/seed production	1	C
Livore, Alberto	Argentina	Rice/production	1	C
Lollato, Marco	Brazil	Others/seed production	1	C
López, Blanca	Mexico	Others/library and docum.	2	C
López, Ernesto	Mexico	Beans/production	1	C
López, José	Colombia	Rice/production	1	C
Lozano, Carlos	Peru	Beans/production	1	C
Lyra Filho, Humberto	Brazil	Cassava/production	1	C
Mantilla, José Edmundo	Venezuela	Cassava/production	1	C
Marella, Muzio	Uruguay	Rice/production	1	C
Marques, Elcio	Brazil	Rice/production	1	C
Martinez, Ramón	Dom Rep	Others/library and docum.	2	C
Martinez, Wilfrido	Argentina	Beans/production	1	C
Martins, José	Brazil	Beans/production	1	C
Masaya, César	Guatemala	Beans/production	1	C
Maya, Luis	Colombia	Others/library and docum.	2	C

Name	Country	Program/Discipline	Months of training completed as of Dec. 31, 1979	Status as of Dec. 31, 1979
Melo, Marco Antonio	Colombia	Beans/production	1	C
Méndez, Wotzbell	Guatemala	Beans/production	1	C
Mendoza, José Eduardo	Peru	Others/seed production	0.5	C
Menezes, José Roberto	Brazil	Beans/production	1	C
Menicucci, Paulo	Brazil	Beans/production	1	C
Mestra, Alvaro	Colombia	Cassava/production	1	C
Miura, Lucas	Brazil	Cassava/production	1	C
Mohamed, Julián	Cuba	Rice/production	1	C
Molina, Mario Alberto	Costa Rica	Beans/production	1	C
Mongkolsook, Yupa	Thailand	Cassava/plant physiology	1	C
Monzón, Felicitó	Guatemala	Beans/production	1	C
Morales, Lázaro	Colombia	Others/seed production	1	C
Morante, César	Peru	Beans/production	1	C
Moseley, Elio	Cuba	Beans/production	1	C
Moyano, César	Peru	Others/seed production	1	C
Muñoz, Jorge	Ecuador	Cassava/production	1	C
Muñoz, Berta	Chile	Others/seed production	1	C
Najera, Irma	Guatemala	Others/library and docum.	2	C
Navarro, Rafael	Colombia	Beans/production	1	C
Navas, Carlos	Ecuador	Others/library and docum.	2	C
Nicoletti, Geni Helena	Brazil	Beans/production	1	C
Nuila, Lidia Rosalia	El Salvador	Beans/production	1	C
Nuñez, Domingo	Venezuela	Others/seed production	1	C
Ordoñez, José María	Honduras	Beans/production	1	C
Orocu, Miguel	Panama	Rice/production	1	C
Padilla, Flavio	Ecuador	Beans/production	1	C
Paiva, Sergio Iván	Brazil	Beans/production	1	C

Name	Country	Program/Discipline	Months of training completed as of Dec. 31, 1979	Status as of Dec. 31, 1979
Pateña, Lilian	Philippines	Cassava/plant physiology	1	C
Peluzzo, Manoel	Brazil	Cassava/production	1	C
Pérez, Bertha	Cuba	Others/library and docum.	2	C
Pineda, Ana Paulina	El Salvador	Beans/product ion	1	C
Polanco, Guillermo	Dom Rep	Cassava/production	1	C
Portillo, José	El Salvador	Others/seed production	1	C
Puga, Wilson	Ecuador	Others/seed production	1	C
Pundek, Murillo	Brazil	Rice/production	1	C
Quesada, Alexis	Costa Rica	Cassava/production	1	C
Quiros, Salvador	Costa Rica	Cassava/production	1	C
Ramirez, Jorge	Mexico	Cassava/production	1	C
Rengel, Avelino	Argentina	Beans/production	1	C
Reyes, Danilo	Dom Rep	Cassava/production	1	C
Reyes, Luis	Bolivia	Rice/production	1	C
Rico, Segundo	Venezuela	Others/seed production	1	C
Rivas, Heriberto	Dom Rep	Beans/production	1	C
Rivas, Heriberto	Dom Rep	Others/seed production	1	C
Rivera, Benjamín	Colombia	Rice/production	1	C
Riverón, Ricardo	Cuba	Rice/production	1	C
Rodríguez, Alvaro	Costa Rica	Rice/production	1	C
Rodríguez, Antonio	Cuba	Cassava/production	1	C
Rodríguez, Carlos	Costa Rica	Beans/production	1	C
Rodríguez, José Isabel	Cuba	Beans/production	1	C
Rodríguez, Magdalena	Dom Rep	Cassava/production	1	C
Sancho, Efraín	Costa Rica	Rice/production	1	C
Santacruz, Fabio	Colombia	Others/seed production	1	C

Name	Country	Program/Discipline	Months of training completed as of Dec. 31, 1979	Status as of Dec. 31, 1979
Sartorato Aloisio	Brazil	Beans/production	1	C
Serrano, Jorge	Colombia	Cassava/production	1	C
Silva, Luiz	Brazil	Rice/production	1	C
Silva, Maria Neide	Brazil	Others/library and docum.	2	C
Simoes, Mario	Brazil	Others/seed production	1	C
Siti Shaleha, Talib	Malaysia	Cassava/plant physiology	1	C
Slaviero, Rosi	Brazil	Others/library and docum.	2	C
Soto, Jesus	Bolivia	Beans/production	1	C
Soto, Juan José	Guatemala	Beans/production	1	C
Souza, Geraldo Luiz	Brazil	Beans/production	1	C
Suárez, Jorge	Bolivia	Others/seed production	1	C
Tassinari, Gilberto	Brasil	Beans/production	1	C
Teixeira, Antonio	Brazil	Beans/production	1	C
Tello, Tomás	Peru	Others/seed production	1	C
Tobón, José Hiriam	Colombia	Beans/production	1	C
Tontyaporn, Sanchai	Thailand	Cassava/plant physiology	1	C
Torrico, Jose	Bolivia	Cassava/production	1	C
Tigreros, Victor	El Salvador	Cassava/production	1	C
Urbano da Silva, Tania	Brazil	Others/library and docum.	2	C
Uribe, Alberto	Mexico	Others/seed production	1	C
Urrego, Orlando	Colombia	Others/seed production	1	C
Valbrun, Lyonel	Haiti	Cassava/production	1	C
Valderrama, Hermes	Colombia	Others/seed production	1	C
Váldez, Carlos	El Salvador	Others/library and docum.	1	C
Valle, Napoleón	Ecuador	Beans/production	1	C
Vásquez, Nelson	El Salvador	Beans/production	1	C

Name	Country	Program/Discipline	Months of training completed as of Dec. 31, 1979	Status as of Dec. 31, 1979
Vega, René	El Salvador	Beans/production	1	C
Velandia, Jorge	Colombia	Beans/production	1	C
Velasco, Gustavo	Colombia	Others/seed production	1	C
Veloz, Jorge	Peru	Rice/production	1	C
Vergara, Ricardo	Peru	Rice/production	1	C
Vieira, Omar	Brazil	Rice/production	1	C
Vieira, Rogerio	Brazil	Beans/production	1	C
Villa, Jorge Antonio	Colombia	Cassava/production	1	C
Viña, Dario	Colombia	Others/seed production	1	C
Warumby, Jandira	Brazil	Cassava/production	1	C
Wong, Girlie	Malaysia	Cassava/plant physiology	1	C
Yokoyama, Massaru	Brazil	Beans/production	1	C
Zamorano, María Cristina	Chile	Others/seed production	1	C
Zañartu, Carlos	Peru	Others/seed production	1	C
Zbigniew, Jorge	Brazil	Rice/production	1	C
Zeceña, Danilo	Guatemala	Others/seed production	1	C
Zuraida, Nani	Indonesia	Cassava/plant physiology	1	C

POSTDOCTORAL FELLOWS AT CIAT DURING 1979

Name	Country	Program/Discipline	Months	Status as of Dec. 31, 1979
Beebe, Stephen	USA	Beans/plant breeding	12	P
Calderon, Mario	Colombia	Tropical Pastures/entomology	7	C
Cardona, César	Colombia	Beans/entomology	12	P
Carrillo, Luis	Guatemala	Tropical Pastures/economics	11	P
Hegewald, Bodo	West Germany	Cassava/special studies unit	12	P
Hershey, Clair	USA	Cassava/plant breeding	7	C
Jones, Peter	Australia	Beans/plant physiology	12	P
Kretchmer, Paul	USA	Beans/plant physiology	3	P
Lascano, Carlos	Colombia	Tropical Pastures/management and util.	3	P
Lenne, Jillian	Australia	Tropical Pastures/plant pathology	7	C
Miles, John	USA	Tropical Pastures/legumes agronomy	4	P
Morales, Francisco	Colombia	Beans/virology	6	C
Reyes, Jesús Antonio	Colombia	Cassava/entomology	12	P
Rubinstein, Eugenia	Chile	Tropical Pastures/economics	12	P
Sumberg, James	USA	Tropical Pastures/legumes agronomy	7	P

CATEGORY OF TRAINING

SOURCE	CATEGORY OF TRAINING							TOTAL No. Months
	Posdoctoral Fellows	Visiting Research Associates	Research Scholars	Posgraduate Research Interns	Posgraduate Production Interns	Special Trainees	Short Course Participants	
	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months
Agricultural University Wageningen, Holland	-	1 (12.0)	-	-	-	5 (22.0)	-	6 (34.0)
Asociación Cultivadores de Arroz, Uruguay	-	-	-	-	-	-	1 (1.0)	1 (1.0)
British Council, Colombia	-	-	-	-	-	1 (1.0)	-	1 (1.0)
CENICAFE, Colombia	-	-	-	-	-	-	1 (2.0)	1 (2.0)
CENTA-BID, El Salvador	-	-	-	2 (2.0)	-	-	4 (4.0)	6 (6.0)
Centro Internacional de Agricultura Tropical-CIAT, Col.	12 (101.0)	17 (137.5)	10 (61.0)	52 (188.0)	-	16 (25.0)	3 (3.0)	110 (515.5)
Comissao Executiva do Plano da Lavoura-CEPLAC, Brasil	-	-	-	-	-	-	1 (2.0)	1 (2.0)
Cornell University, USA	-	2 (15.0)	-	-	-	-	-	2 (15.0)
EMSEMILLAS, Ecuador	-	-	-	-	-	-	1 (1.0)	1 (1.0)
FAO, Rome	-	3 (19.0)	-	-	-	-	-	3 (19.0)
Ford Foundation, USA	1 (12.0)	2 (4.5)	-	2 (7.5)	-	-	-	5 (24.0)
Fulbrighth Foundation, USA	-	1 (6.0)	-	-	-	-	-	1 (6.0)
German Society for Technical Cooperation	-	1 (12.0)	-	-	-	-	-	1 (12.0)
German Foundation for the International Development	1 (11.0)	2 (11.0)	-	-	-	-	16 (16.0)	19 (38.0)
GTZ-DAAD, West Germany	-	-	-	-	-	2 (4.0)	-	2 (4.0)
International Development Research Centre-IDRC, Canada	-	1 (7.0)	2 (22.0)	-	1 (5.0)	-	-	4 (34.0)
Instituto Nacional de Investigaciones Agrícolas- INIA, México	-	-	-	-	-	-	1 (2.0)	1 (2.0)
Japan International Cooperation Agency-JICA, Japan	-	-	-	1 (10.0)	-	-	-	1 (10.0)
London, University, England	-	1 (11.0)	-	-	-	-	-	1 (11.0)
Ministerio de Agricultura y Cría, Venezuela	-	-	-	1 (1.0)	-	-	-	1 (1.0)
National Science Foundation, USA	-	1 (3.0)	-	-	-	-	-	1 (3.0)

(Continued)

SOURCE	Posdoctoral	Visiting	Research	Posgraduate	Posgraduate	Special	Short	TOTAL
	Fellows	Research Associates	Scholars	Research Interns	Production Interns	Trainees	Course Participants	
	No.Months	No.Months	No.Months	No.Months	No.Months	No.Months	No.Months	No.Months
Peace Corps, USA	-	-	-	1 (9.0)	-	-	-	1 (9.0)
Rockefeller, Foundation, USA	1 (3.0)	1 (5.0)	-	-	-	-	-	2 (8.0)
Secretaria de Agricultura, Dom Rep	-	-	-	-	-	-	1 (2.0)	1 (2.0)
Semillas y Fertilizantes de Sinaloa, Mexico	-	-	-	-	-	-	1 (1.0)	1 (1.0)
University of Mississippi, USA	-	-	-	-	-	-	4 (3.5)	4 (3.5)
University of Florida, USA	-	-	-	1 (1.0)	-	-	1 (1.0)	2 (2.0)
Universidad Nacional, Colombia	-	-	1 (4.0)	-	-	-	-	1 (4.0)
United Nations Development Programme, UNDP	-	1 (12.0)	10 (76.0)	11 (28.5)	33 (155.0)	-	157 (163.5)	212 (435.0)
USAID, Bolivia	-	-	-	-	-	-	1 (1.0)	1 (1.0)
West Germany Government	-	-	-	-	-	-	7 (15.0)	7 (15.0)
	15 (127.0)	34 (255.0)	23 (163.0)	71 (247.0)	34 (160.0)	24 (62.0)	201 (218.0)	402 (1.222.0)