



15 MAR. 1991

3 = ANNUAL REPORT 1980

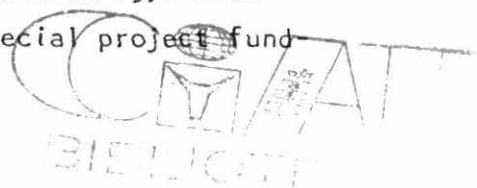
2 = TRAINING AND CONFERENCES ACTIVITIES

Four main points highlight developments in training during 1980. One is the culmination of a drive for critical mass started in 1977 by means of short intensive multidisciplinary courses. Two the institutionalization on a CIAT basis of commodity training programs combining multidisciplinary production research instruction and disciplinary specialization. Three the intensification of training in seeds and four the expansion of assistance to in-country and regional training.

Special project funds provided by UNDP and by IDRC allowed CIAT, starting in 1977, to rapidly increase, among scientist of client countries their knowledge of existing and new technologies, their familiarity with the research on each program and their awareness of opportunities for cooperation in research. This was accomplished over the four year period by means of short (4-8 week duration) intensive multidisciplinary courses, most of them offered to Latin Americans but a few also to Asians. A total of 557 professionals participated in short courses and 441 in medium and long-term training during the four-year period, (Fig. 1); more than one and a half times than those trained in the previous eight years. This achievement will now allow CIAT to concentrate its efforts and resources in future years on longer-term training and MS and Ph.D. thesis research-training.

CIAT's experience with short intensive courses of a multidisciplinary approach has shown these to be the best mechanism to teach a good base of knowledge of the crop's current research and available technology. However, the medium and longer term internships are recognized to be necessary for effective training in research methodology, techniques and strategy. In 1980, an approach was successfully institutionalized that combined both types of training. Preliminary testing among participants suggests that the combination is deemed the most effective for the majority of professionals, further evaluation will be done in 1981.

Courses on seed technology were started by CIAT's Seed Unit in 1978 with collaboration of Mississippi State University under a special project fund



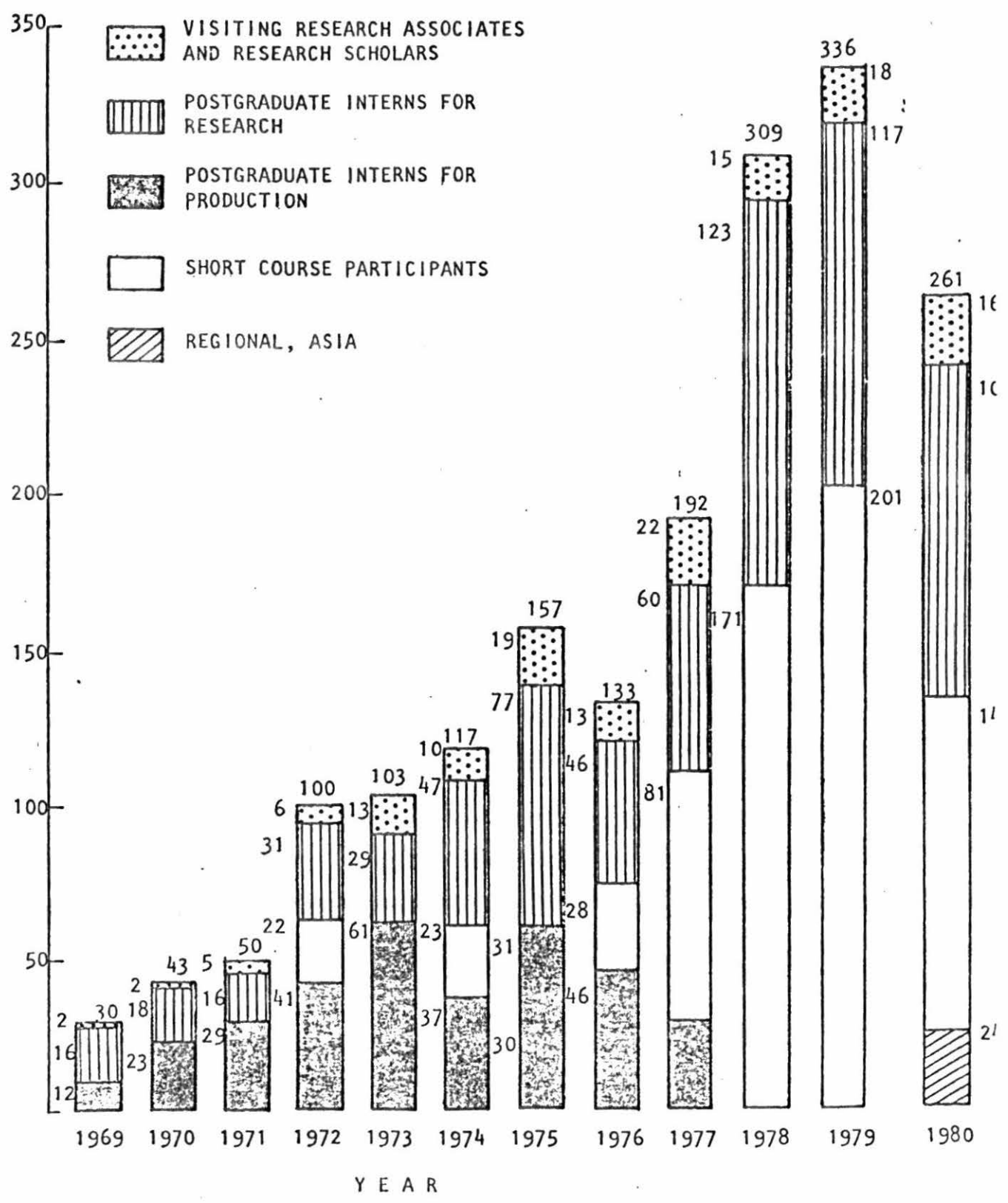


Figure 1. NUMBER OF TRAINING PARTICIPANTS WHO HAVE COMPLETED TRAINING AT CIAT FROM 1969 TO 1980.

ed by the Swiss Government. These courses have been received enthusiastically and have had much demand. A more advanced course was added this year, on basic and breeders seed.

Modest assistance to national programs to conduct in-country training was expanded in 1980 with the purpose of helping those programs to strengthen links between generation of technology and subsequent transfer to farmers in a complete set of production technology alternatives. This assistance helps national programs to organize and conduct short courses on extension, credit or development personnel that is not normally brought to CIAT headquarters. Six countries, in Latin America, were assisted this year. Six countries in Asia were served by the first regional course on cassava production research. Distance, language and ecology considerations induced CIAT to this new regional strategy.

The following highlight Training and Conference events in 1981 at headquarters and elsewhere:

#### Short Intensive Course - Internship Combinations

This type of training initiated in 1978, was institutionalized in all CIAT research programs in 1980. They have been designed with the purpose of equipping professionals with a multidisciplinary knowledge of the crop, as well as with a solid functional research capability, in a specific discipline of one commodity, so they would better understand and play their role in a commodity team research strategy.

This objective has been achieved on a commodity basis by means of the combination of a multidisciplinary phase (short course) followed by a specialized discipline training phase. Both are given within one same training period of 4 to 6 months. The short course continues to be an excellent way to present and up-date knowledge on a commodity, covering multidisciplinary aspects, methodologies and strategies of research, and new technologies developed at CIAT. The specialized phase has a longer duration and is carried out under individualized supervision. It seeks to improve or qualify the professional's competency for research in a discipline within a commodity program, thus contributes to establishing and/or strengthening commodity research teams for the national institutions in Latin America and the Caribbean.

Five such training programs were carried out in 1980: Beans (2), Cassava (1), Rice (1) and Tropical Pastures (1). (Figure 2). In each, the alternative of short course only was offered exclusively to researchers with experience in the commodity involved, wanting to up date their knowledge on beans. Those persons of lesser experience in research were offered the short course internship combination. The proportion of participants enrolled in the combination was greater than that of those who elected for the intensive phase only.

#### Medium and longer-term training.

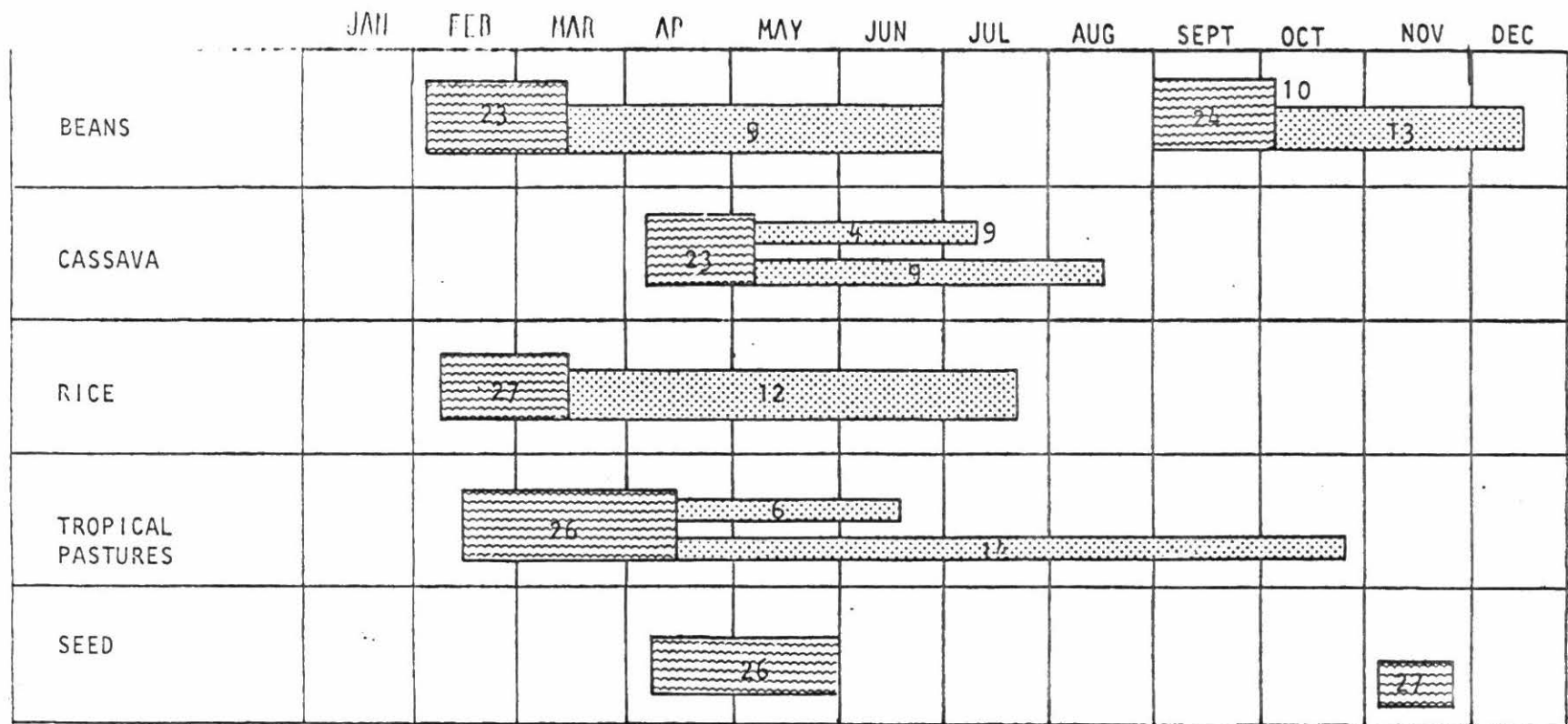
The categories of postgraduate interns, visiting research associates and thesis scholars continued to comprise an important part of the training activities in 1980. This year, these medium and long-term categories made up 49% of the total number of professionals trained and 80% of the man months of training at CIAT. Compared with 42% of the total number and 75% of the man months in 1979 showing a shift towards the longer term sojourns that imply more solid training.

Table 1 shows the number of participants in 1980, by program and units for each category. Table 2 shows the number of professionals trained in each program, by speciality and categories; Table 3 gives the country of origin of participants and, finally, Table 4 lists all participants by name, country, employer, program and discipline.

#### MS and Ph.D Thesis Research

As in previous years, CIAT continues to receive professionals from developing as well developed countries, so that they may conduct thesis research projects in one of CIAT's research fields for the purpose of obtaining MS or Ph.D degrees at a number of universities. During 1980 three visiting research associates from developing countries (Sri Lanka, Kenya and Nicaragua) and seven from developed countries (Germany, Holland, England and the USA) worked on Ph.D research.

Seven scholars were selected in 1980 to initiate MS studies with UNDP and CIAT funding. Thirteen others continued studies initiated in late 1979 and eight that started studies in 1980 are now at CIAT working on projects for



Intensive multidisciplinary phase (course)



Specialization Phase (Internship)

Fig. 2 STRUCTURED TRAINING PROGRAMS ON CIAT'S COMMODITIES IN 1980

## Colombia

CIAT's Bean Program cooperated in the planning and development of the first course on bean-coffee association, carried out at CIAT, for the National Coffee Federation personnel.

Similarly the Seed Unit contributed to a course on seed technology for the Colombian Agricultural Institute (ICA).

### Regional Training.

The first regional 4-week multidisciplinary course, on cassava research for Asia, was conducted by CIAT in cooperation with SEARCA, in June 2 to 28 at Los Baños and at Visca, Leyte, Philippines. This course founded by IDRC, had 25 participants from cassava programs in Indonesia, Malaysia, Philippines, Sri Lanka and Thailand.

### Experiment Farm Management.

This year 2 professionals were trained in the various aspects of experimental farm operations in support of research on CIAT commodities.

### Communication - Audiotutorials

Three professionals, 2 from Cuba, 1 from Ecuador and 1 from Perú were trained on the production of audiotutorial units, to initiate the project of this system's utilization at international level.

### Seeds

With collaboration from the Mississippi State University the Seed Unit carried out two intensive courses in 1980, one on seed technology (6 weeks), with 30 participants from 13 Latin American and Caribbean countries, and one on genetic and basic seed (4 weeks), with 27 participants from 14 countries.

Other details of training specific to each commodity are given in the reports of the research programs.

### Post Doctoral Fellows

Post Doctoral fellowships are a combination of high-level training and scientific research projects. In 1980, 14 young Ph.Ds conducted research at CIAT in this category. Their distribution among programs is shown in Table 6.

## CONFERENCES 1980

Sponsored, co-sponsored and hosted events held at CIAT during 1980 are shown in Table 7.

The Rockefeller Foundation, GTZ and CIAT co-sponsored workshop on Amazon Land Use and Agricultural Research brought together many Latin American scientific leaders in research for that region of the continent.

A large seminar was co-sponsored by several Colombian organizations on CIAT, on Alcohol from Cassava and Sugar Cane as a Carburetant. Authorities in the field, from Colombia, Brazil, Germany, the U.K. and U.S., attended.

Continuing with the calendar of internal seminars given by senior staff and associates, 20 papers were presented, and nine scientists, visiting CIAT, also gave seminars.

Details on workshops of the research network are given in the reports of cassava and bean programs.

Table 1.

## PROFESSIONALS TRAINED AT CIAT IN 1980, BY TRAINING CATEGORY IN EACH COMMODITY AND SUPPORT UNIT

PROGRAM OR UNIT	CATEGORY OF TRAINING						
	VISITING RESEARCH ASSOCIATES	RESEARCH SCHOLARS	POSTGRADUATE RESEARCH INTERNS	POSTGRADUATE RESEARCH INTERNS WITH SHORT COURSE PARTICIPATION	SPECIAL TRAINEES	SHORT COURSE PARTICIPANTS	PROGRAM SUB-TOTALS
	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months
Commodity Programs:							
BEANS	9 (83.0)	8 (86.0)	7 (20.0)	20 (80.0)		25 (25.0)	69 (294.0)
CASSAVA	9 (60.0)	4 (34.5)	8 (27.0)	11 (41.0)	9 (20.0)	37 (37.0)	78 (219.5)
RICE	1 (7.0)	2 (24.0)	3 (15.0)	11 (62.0)		16 (16.0)	33 (124.0)
TROPICAL PASTURES	8 (64.5)	8 (84.0)	12 (59.0)	19 (97.0)	3 (12.0)	10 (21.0)	60 (337.5)
<i>Total Programs</i>	<i>27 (214)</i>	<i>22 (229)</i>	<i>30 (121)</i>	<i>61 (280)</i>	<i>12 (32)</i>	<i>88 (99)</i>	<i>240 (975)</i>
Support Units:							
BIOMETRICS			1 (0.5)				1 (0.5)
SEED PRODUCTION		1 (12.0)				54 (81.0)	55 (93.0)
STATION OPERATION MANAGEMENT			1 (6.0)		1 (1.0)		2 (7.0)
AUDIOTUTORIALS			3 (8.5)		1 (2.0)		4 (10.5)
TRAINING	1 (8.0)						1 (8.0)
TOTAL 1980	28 (222.5)	23 (240.5)	35 (136.0)	61 (280.0)	14 (35.0)	142 (180.0)	303 (1094.0)
TOTAL 1979	34 (255.0)	23 (163.0)	71 (247.0)	34 (160.0)	24 (52.0)	201 (218.0)	387 (1095.0)



Table-2.

## PROFESSIONALS TRAINED AT CIAT IN 1980 BY COMMODITY DISCIPLINE OF SPECIALIZATION AND CATEGORY OF TRAINING

COMMODITY/DISCIPLINE OF SPECIALIZATION	CATEGORY OF TRAINING						
	VISITING RESEARCH ASSOCIATES	RESEARCH SCHOLARS	POSTGRADUATE RESEARCH INTERNS	POSTGRADUATE RESEARCH INTERNS WITH SHORT COURSE PARTICIPATION	SPECIAL TRAINEES	SHORT COURSE PARTICIPANTS	PROGRAM SUB-TOTALS
	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months
Beans							
Agronomy (Soil-Crop Association)		2 (24.0)	1 (2.0)	8 (37.0)			11 (63.0)
Economics	1 (6.0)			1 (2.0)			2 (8.0)
Entomology		1 (12.0)					1 (12.0)
Germplasm	2 (24.0)						2 (24.0)
Plant Breeding	3 (17.0)	1 (12.0)	1 (3.0)	4 (15.5)			9 (47.5)
Plant Pathology	2 (24.0)	2 (24.0)	1 (4.0)	2 (10.0)			7 (62.0)
Plant Physiology		1 (12.0)		1 (5.0)			2 (17.0)
Production Research(*)						25 (25.0)	25 (25.0)
Plant Virology	1 (12.0)		1 (2.0)	2 (5.5)			4 (19.5)
Seed Production				1 (2.0)			1 (2.0)
Soil Microbiology		1 (2.0)	3 (9.0)	1 (3.0)			5 (14.0)
BEANS TOTAL	9 (83.0)	8 (86.0)	7 (20.0)	20 (80.0)		25 (25.0)	69 (294.0)

(\*) Multidisciplinary, research intensive short courses

COMMODITY/DISCIPLINE OF SPECIALIZATION	VISITING RESEARCH ASSOCIATES	RESEARCH SCHOLARS	POSTGRADUATE RESEARCH INTERNS	POSTGRADUATE RESEARCH INTERNS WITH SHORT COURSE PARTICIPATION	SPECIAL TRAINEES	SHORT COURSE PARTICIPANTS	PROGRAM SUB-TOTALS
	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months
Tropical Pastures							
Agronomy		4 (48.0)	1 (4.0)	7 (33.0)			12 (85.0)
Animal Health			1 (9.0)		1 (3.0)		2 (12.0)
Economics		1 (3.0)	1 (11.0)				2 (14.0)
Entomology			1 (6.0)				1 (6.0)
Germplasm	1 (7.0)		1 (4.0)				2 (11.0)
Plant Breeding	1 (3.0)						1 (3.0)
Production Research(*)		1 (10.0)				10 (21.0)	11 (31.0)
Plant Physiology		1 (11.0)					1 (11.0)
Seed Production			2 (6.0)				2 (6.0)
Soil Microbiology	1 (8.0)						1 (8.0)
Soils	1 (12.0)	1 (12.0)	1 (6.0)		1 (7.0)		4 (37.0)
Soils Phosphates			1 (4.0)				1 (4.0)
Technology Transference				6 (25.0)			6 (25.0)
Legume Agronomy	2 (11.5)		1 (5.0)				3 (16.5)
Plant Nutrition (Soils)				4 (22.0)			4 (22.0)
Utilization	2 (23.0)		2 (4.0)	2 (17.0)	1 (2.0)		7 (46.0)
TROPICAL PASTURES TOTAL	8 (64.5)	8 (84.0)	12 (59.0)	19 (97.0)	3 (12.0)	10 (21.0)	60 (337.5)

COMMODITY/DISCIPLINE OF SPECIALIZATION	VISITING RESEARCH ASSOCIATES	RESEARCH SCHOLARS	POSTGRADUATE RESEARCH INTERNS	POSTGRADUATE RESEARCH INTERNS WITH SHORT COURSE PARTICIPATION	SPECIAL TRAINEES	SHORT COURSE PARTICIPANTS	PROGRAM SUB-TOTALS
	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months
Cassava							
Agronomy	1 (6.0)	1 (12.0)	1 (1.0)	3 (9.0)	1 (0.5)		7 (28.5)
Economics			2 (10.0)	1 (4.0)	2 (9.0)		5 (23.0)
Entomology	2 (15.0)	1 (0.5)	1 (3.0)	3 (13.0)			7 (31.5)
Germplasm	1 (3.0)		1 (3.0)		2 (1.5)		4 (7.5)
Plant Breeding		1 (10.0)		2 (7.0)	1 (0.5)		4 (17.5)
Plant Pathology	4 (24.0)		1 (4.0)	2 (8.0)			7 (36.0)
Plant Physiology	1 (12.0)	1 (12.0)	2 (6.0)		1 (0.5)		5 (30.5)
Production Research(*)						37 (37.0)	37 (37.0)
Rural Sociology					1 (6.0)		1 (6.0)
Special Studies					1 (2.0)		1 (2.0)
CASSAVA TOTAL	9 (60.0)	4 (34.5)	8 (27.0)	11 (41.0)	9 (20.0)	37 (37.0)	78 (219.5)

COMMODITY/DISCIPLINE OF SPECIALIZATION	VISITING RESEARCH ASSOCIATES	RESEARCH SCHOLARS	POSTGRADUATE RESEARCH INTERNS	POSTGRADUATE RESEARCH INTERNS WITH SHORT COURSE PARTICIPATION	SPECIAL TRAINEES	SHORT COURSE PARTICIPANTS	PROGRAM SUB-TOTALS
	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months
Rice							
Agronomy	1 (7.0)		1 (6.0)	8 (45.0)			10 (58.0)
Entomology		1 (12.0)					1 (12.0)
Plant Breeding		1 (12.0)	2 (9.0)	2 (12.0)			5 (33.0)
Plant Pathology				1 (5.0)			1 (5.0)
Production Research(*)						16 (16.0)	16 (16.0)
RICE TOTAL	1 (7.0)	2 (24.0)	3 (15.0)	11 (62.0)		16 (16.0)	33 (124.0)

TABLE 3.  
PROFESSIONALS TRAINED AT CIAT IN 1980, BY COUNTRY OF ORIGIN AND COMMODITY IN WHICH TRAINED

COUNTRY	COMMODITY PROGRAM OR UNIT								TOTAL
	BEANS	CASSAVA	RICE	TROPICAL PASTURES	SEED PRODUCTION	STATION OPERATION MANAGEMENT	AUDIOTUTORIALS	OTHERS	
Latin America and the Caribbean									
ARGENTINA	3			1					4
BELIZE			1						1
BOLIVIA	3	2		2	5				12
BRAZIL	9	9	6	7	9				40
CHILE	4				1				5
COLOMBIA	5	12	5	10	13	2	1	2	50
COSTA RICA	3		1	2	1				7
CUBA	2		1	8			1		12
DOMINICAN REPUBLIC	1	2	1	1	4				9
ECUADOR	2	1	3	3	3		1		12
EL SALVADOR	3		2						5
GUATEMALA	6		2		1				9
HAITI	2	1	2		2				7
HONDURAS	2	1	2	2	2				9
MEXICO	6	5	1	1	2				15
NICARAGUA	4			4	1				9
PANAMA			2	4	2				8
PERU	6	2	3	5	7		1		24
VENEZUELA	1	1		3	2				7

(Continued)

215

COUNTRY	BEANS	CASSAVA	RICE	TROPICAL PASTURES	SEED PRODUCTION	STATION OPERATION MANAGEMENT	AUDIOTUTORIALS	OTHERS	T O T A L
Other Countries									
<u>Asia</u>									
INDONESIA		7							7
MALAYSIA		3							3
PHILLIPPINES		6							6
SRI LANKA	1	4							5
THAILAND		9							9
<u>Africa</u>									
KENYA	1								1
SOUTH AFRICA		2							2
<u>Developed Countries</u>									
BELGIUM	2								2
HOLLAND		4		2					6
ITALY		1							1
UNITED KINGDOM		2							2
USA	3	3	1	1					8
WEST GERMANY		1		4					5
T O T A L	69	78	33	60	55	2	4	2	303

## PROFESSIONALS TRAINED AT CIAT DURING 1980

NAME	COUNTRY	INSTITUTION	PROGRAM/DISCIPLINE	MONTHS OF TRAINING COMPLETED AS OF DEC. 31, 1980	STATUS AS OF DEC. 31, 1980
<b>VISITING RESEARCH ASSOCIATES</b>					
Arcia, Gustavo	Nicaragua	Univ. of Missouri	Beans/economics	6	C
Boehnert, Elke	West Germany	Technical Univ. of Berlin	Tropical Pastures/management and util.	12	P
Buruchara, Robin	Kenya	Univ. of Nairobi	Beans/plant pathology	12	P
Cano, Jairo	Colombia	Michigan State Univ.	Others/training	8	P
Cañas, Margarita	Colombia	Univ. Industrial de Santander	Cassava/germplas-genetic resources	3	C
Díaz, Jorge Luis	Nicaragua	INTA	Tropical Pastures/management and util.	11	C
García, Aurora Susana -	Argentina	INTA	Beans/plant breeding	2	C
Gepts, Paul	Belgium	Gembloux Univ.	Beans/germplas-genetic resources	12	P
Hansen, Henk	Holland	Univ. of Wageningen	Tropical Pastures/legumes agronomy	0.5	C
Jayasinghe, Upali	Sri Lanka	Univ. of Wageningen	Beans/virology	12	P
Katherman, Mary	USA	Cornell Univ.	Beans/plant pathology	12	C
Keller-Grein Gerhard	West Germany	Technical Univ. of Berlin	Tropical Pastures/legumes agronomy	7	P
Kornegay, Julia -	USA	North Carolina State Univ.	Beans/plant breeding	12	P
Laberry, Rafael	Peru	Univ. Nal. Técnica de Piura	Cassava/plant pathology	3	C
Lohr, Bernhard	West Germany	Justus Liebig Univ.	Cassava/entomology	12	P
Lyman, Judith	USA	Cornell Univ.	Beans/plant breeding	3	C
Machado, Hilda Caridad	Cuba	Ministerio de Agricultura	Tropical Pastures/plant breeding	3	C
Mason, Stephen	USA	Univ. of Purdue	Cassava/agronomy	6	C
Rickard, June	Unit. Kingdom	Tropical Products Institute	Cassava/plant pathology	3	C
Salick, Jan Margaret	USA	Cornell Univ.	Cassava/entomology	3	P
Sánchez, Luis Fernando	Argentina	Universidad Nacional del Sur	Tropical Pastures/soils science	12	P
Speidel, Karen	USA	North Carolina State Univ.	Tropical Pastures/soils microbiology	8	C
Vanderborght, Thierry	Belgium	FAO, Rome	Beans/germplas-genetic resources	12	P
Veltkamp, Hendrik Jan	Holland	Univ. of Wageningen	Cassava/plant physiology	12	P
Wege, Linus	West Germany	Technical Univ. of Berlin	Tropical Pastures/legumes agronomy	11	P
Wheatley, Christopher	Unit. Kingdom	London Univ.	Cassava/plant pathology	12	C
Zeigler, Robert	USA	Cornell Univ.	Cassava/plant pathology	6	P
Zimmerman, William	USA	Univ. of Florida	Rice/agronomy	7	C
<b>RESEARCH SCHOLARS</b>					
Abaunza, José Arkangel	Nicaragua	INTA	Tropical Pastures/agronomy	12	P
Alfaro, Rodrigo	Costa Rica	Ministerio de Agric. y Ganad.	Beans/agronomy	12	P
Alvarez, José Francisco	Costa Rica	Ministerio de Agric. y Ganad.	Rice/entomology	12	P
Bascur, Gabriel	Chile	INIA	Beans/plant physiology	12	P
Bruno, Ovidio	El Salvador	CENTA	Beans/agronomy	12	P

<u>NAME</u>	<u>COUNTRY</u>	<u>INSTITUTION</u>	<u>PROGRAM/DISCIPLINE</u>	<u>MONTHS OF TRAINING COMPLETED AS OF DEC. 31, 1980</u>	<u>STATUS AS OF DEC. 31, 1980</u>
Cáceres, José Walterio	Honduras	Ministerio de Rec. Naturales	Cassava/agronomy	12	P
Castellanos, Victor Hugo	Dom Rep	Secretaría de Estado de Agr.	Cassava/plant physiology	12	P
Charry, Alvaro	Colombia	Univ. de Córdoba	Tropical Pastures/economics	3	C
Cuesta, Pablo Antonio	Colombia	ICA	Tropical Pastures/agronomy	12	P
Díaz, José Manuel	Guatemala	ICTA	Beans/plant pathology	12	P
Flores, Adalberto	Venezuela	FONAIAP	Tropical Pastures/agronomy	12	P
Galindo, José	Costa Rica	Cornell Univ.	Beans/plant pathology	12	P
Guzmán, Silvio	Colombia	CIAT	Tropical Pastures/plant physiology	11	P
Hernández, Julio César	Nicaragua	INTA	Beans/entomology	12	P
Luna, José Moisés	Colombia	ICA	Cassava/plant breeding	10	P
Mendoza, Alejandro	Colombia	ICA	Others/seed production	12	P
Peña, Jorge	Colombia	CIAT	Cassava/entomology	0.5	C
Ramos, Federico	Honduras	Ministerio de Rec. Naturales	Beans/plant breeding	12	P
Reátegui, Keneth	Peru	IVITA	Tropical Pastures/production	10	P
Rolando, Carlos	Ecuador	INIAP	Tropical Pastures/soils	12	P
Rubi, Rolando	Honduras	Ministerio de Rec. Naturales	Rice/plant breeding	12	P
Sobrihno, José Marcelino	Brazil	EMGOPA	Tropical Pastures/agronomy	12	P
Villarreal, Leslie	Colombia	Univ. of Florida	Beans/soils microbiology	2	C

#### POSTGRADUATE RESEARCH INTERNS

Avila, Jose	Cuba	Ministerio de Agricultura	Tropical Pastures/soils phosphate	4	C
Baaventura, Sival	Brazil	EMGOPA	Tropical Pastures/agronomy	5	C
Cevallos, Manuel Edmundo	Ecuador	INIAP	Beans/agronomy	2	C
Cordovi, Emilio	Cuba	Ministerio de Agricultura	Tropical Pastures/agronomy	4	C
De Sales, Antonio	Brazil	EPAMIG	Cassava/agronomy	1	C
Dussán, Luis Eduardo	Colombia	Oficel	Rice/agronomy	6	C
Gerardo, Justo Pastor	Cuba	Ministerio de Agricultura	Tropical Pastures/management and util.	3	C
Gómez, Jorge Enrique	Colombia	Fondo Ganadero de Antioquia	Tropical Pastures/animal health	9	P
Heredia, Gerardo	Ecuador	INIAP	Others/audiotutorials	4	C
Hernández, Arturo	Cuba	Ministerio de Agricultura	Rice/plant breeding	5	P
López, Francisco	Colombia	Univ. Andes	Cassava/economics	7	C
Mackie, Freddy	Peru	Univ. Nal. San Cristóbal	Beans/soils microbiology	5	C
Marmolejo, Fernando	Colombia	ICA	Cassava/germplas-genetic resources	3	C
Martínez, Ivan	Cuba	Ministerio de Agricultura	Tropical Pastures/entomology	6	P
Medina, Salvador	Mexico	INIA	Rice/plant breeding	4	C
Mendoza, Elsa	Colombia	Univ. de los Andes	Tropical Pastures/economics	11	P
Morante, César	Peru	Univ. Pedro Ruiz Gallo	Beans/plant breeding	3	C
Nápoles, Gil	Cuba	Ministerio de Agricultura	Tropical Pastures/germplas-genetic resources	4	C
Navarro, Gilberto	Cuba	Ministerio de Agricultura	Tropical Pastures/seed production	1	C
Palacios, Arturo	Mexico	Fertilizantes Mexicanos	Beans/soils microbiology	2	C



NAME	COUNTRY	INSTITUTION	PROGRAM/DISCIPLINE	MONTHS OF	STATUS
				TRAINING COMPLETED AS OF DEC. 31, 1980	
Palta, Jairo	Colombia	The Rockefeller Foundation	Cassava/plant physiology	3	C
Pérez, Carlos	El Salvador	CENTA	Beans/virology	2	C
Pérez, Luis Rómulo	Colombia	Univ. del Valle	Others/station operations management	6	C
Ploper, Leonardo	Argentina	Est. Exp. Agroindustr. Obispo C.	Beans/plant pathology	4	C
Pruneda, Roberto	Cuba	Ministerio de Agricultura	Tropical Pastures/seed production	5	C
Quiñones, Martha	Cuba	Ministerio de Agricultura	Others/audiotutorials	4	C
Rodríguez, Jorge Celso	Peru	IVITA	Tropical Pastures/management and util.	1	C
Román, Ana Lucía de	Colombia	ICA	Others/audiotutorials	0.5	C
Sainumtip, Nida	Thailand	State Department of Agriculture	Cassava/economics	3	C
Teixeira, Alvaro	Brazil	EMCAPA	Beans/soils microbiology	2	C
Urdaneta, Iván José	Venezuela	Univ. del Zulia	Tropical Pastures/soils	6	C
Wongkobrat, Arunee	Thailand	State Department of Agriculture	Cassava/entomology	3	C
Zapata, Hugo Henry	Colombia	Univ. Nal. de Colombia	Others/biometrics	0.5	C

POSTGRADUATE RESEARCH INTERNS WITH  
SHORT COURSE PARTICIPATION

Acosta, Alfonso	Colombia	ICA	Tropical Pastures/agronomy	4	C
Aguilera, Miguel	Bolivia	Univ. Gabriel René Moreno	Beans/agronomy	4	C
Aldana, Luis Fernando	Guatemala	ICTA	Beans/plant breeding	5	C
Alvarado, Mario	Honduras	Ministerio de Rec. Naturales	Tropical Pastures/legumes agronomy	4	C
Arizules, Vicente	Ecuador	INIAP	Cassava/agronomy	3	C
Assuncao, Flacilio	Brazil	EMATER	Rice/agronomy	6	C
Avila, Miguel	Panama	IDIAP	Tropical Pastures/legumes agronomy	4	C
Barbosa, Elio	Brazil	EMGOPA	Tropical Pastures/soils-plant nutrition	5	C
Bastidas, Boris	Ecuador	INIAP	Beans/agronomy	4	C
Bossa, Jean René	Haiti	Ministerio de Agricultura	Rice/plant breeding	6	C
Campos, Walter	Bolivia	Univ. Gabriel René Moreno	Tropical Pastures/soils-plant nutrition	6	C
Cruz, Adolfo	Nicaragua	INTA	Tropical Pastures/legumes agronomy	6	C
Cruz, Miguel	Colombia	Fondo Ganadero del Meta	Tropical Pastures/technology transference	4	C
Español, Guillermo	Dom Rep	Secretaría de Estado de Agric.	Tropical Pastures/soils-plant nutrition	5	C
Espinoza, José	Bolivia	Univ. Mayor de San Simón	Tropical Pastures/agronomy	7	C
Fernández, Miguel	Chile	INIA	Beans/soils microbiology	3	C
Figueras, Gustavo	Guatemala	ICTA	Beans/agronomy	4	C
Gardy, Fleurantin	Haiti	Instituto de Desarrollo Agrícola	Cassava/agronomy	3	C
Gudiel, Jorge	Guatemala	ICTA	Rice/agronomy	3	C
Guy, Mathieu	Haiti	Ministerio de Agricultura	Beans/agronomy	4	C
Guzmán, Pedro	Costa Rica	Ministerio de Agric. y Ganad.	Tropical Pastures/technology transference	1	C
Hernández, Ricardo	Panama	IDIAP	Rice/agronomy	6	C
Hernández, María del Pilar	Cuba	Ministerio de Agricultura	Beans/plant pathology	3	C
Herrera, Mario José	Nicaragua	INTA	Beans/plant breeding	4	C
Huamán, Héctor	Peru	IVITA	Tropical Pastures/management and util.	9	C
Jara, Mariano	Peru	INIA	Beans/entomology	6	C

NAME	COUNTRY	INSTITUTION	PROGRAM/DISCIPLINE	MONTHS OF COMPLETED		STATUS AS OF DEC. 31, 1980
				AS OF	DEC. 31, 1980	
Jorriñ, Francisco	Cuba	Ministerio de Agricultura	Beans/seed production		2	C
Kuhn, Jorge	Brazil	CATI	Tropical Pastures/technology transference		5	C
Languidey, Pura	Bolivia	Univ. Gabriel René Moreno	Cassava/plant pathology		3	C
Leal, Helmuth	Guatemala	ICTA	Beans/production		2	C
Lima, José Moacyr	Brazil	EPABA	Beans/plant physiology		5	C
Lozano, Saida	Colombia	Univ. de Córdoba	Cassava/plant pathology		3	C
Macedo, Segundo	Peru	Proyecto Carolina del Norte	Tropical Pastures/agronomy		4	C
Martínez, José	El Salvador	CENTA	Beans/seed production		5	C
Montealegre, Fabio	Colombia	FEDEARROZ	Rice/agronomy		6	C
Moquete, César	Dom Rep	ISA	Rice/agronomy		6	C
Morales, Hermo	Bolivia	IBTA	Cassava/agronomy		3	C
Nolasco, Héctor	Honduras	Ministerio de Rec. Naturales	Tropical Pastures/technology transference		4	C
Ordoñez, Jesús	Colombia	Fondo Ganadero de Santander	Tropical Pastures/technology transference		4	C
Ortiz, Ricardo	El Salvador	CENTA	Rice/plant pathology.		5	C
Parham, Wendell	Belize	Ministerio de Rec. Naturales	Rice/agronomy		6	C
Polanco, Guillermo	Dom Rep	CENDA	Beans/plant breeding		4	C
Prophete, Emmanuel	Haiti	Ministerio de Agricultura	Beans/plant pathology		6	C
Quintero, José María	Panamá	Univ. de Panamá	Tropical Pastures/soils-plant nutrition		6	C
Quitón, Félix	Bolivia	IBTA	Beans/agronomy		6	C
Ramos, Carlos	Mexico	INIA	Cassava/plant breeding		3	C
Ricci, José Raul	Argentina	Est. Exp. Agroindustr. Obispo C.	Beans/plant breeding		2	C
Rivera, Heriberto	Honduras	Ministerio de Rec. Naturales	Beans/agronomy		5	C
Román, Alberto de Jesús	Colombia	ICA	Beans/agronomy		6	C
Ruiz, José	Nicaragua	INTA	Beans/plant pathology		4	C
Sanabria, Damelys	Venezuela	FONAIAP	Tropical Pastures/agronomy		4	C
Schmitt, Aurea Teresa	Brazil	EMPASC	Cassava/entomology		3	C
Segura, Phanor	Colombia	Univ. Nal. de Colombia	Cassava/entomology		3	C
Sepúlveda, Paulina	Chile	INIA	Beans/plant pathology		2	C
Silva del A, Justo	Peru	Ministerio de Agric. y Aliment.	Tropical Pastures/technology transference		4	C
Simmonds, Roberto	Colombia	ICA	Rice/agronomy		6	C
Ticona, Lucio Seraffín	Peru	INIA	Cassava/plant breeding		3	C
Trejo, José Luis	Mexico	INIA	Cassava/economics		3	C
Urbina, Freddy	Nicaragua	Banco Nacional de Nicaragua	Tropical Pastures/technology transference		4	C
Urias, Mario Alfonso	Mexico	INIA	Cassava/entomology		6	C
Villalva, Gerardo	Peru	INIA	Rice/agronomy		6	C
Villela, Eduardo	Brazil	EMGOPA	Tropical Pastures/management and util.		8	C
Yagual, Kleber Santiago	Ecuador	INIAP	Rice/plant breeding		6	C
Zamora, Mario	Costa Rica	Consejo Nacional de Producción	Beans/agronomy		4	C

NAME	COUNTRY	INSTITUTION	PROGRAM/DISCIPLINE	MONTHS OF	STATUS
				COMPLETED	
SPECIAL TRAINEES					
Canales, José	Mexico	INIA	Cassava/agronomy	0.5	C
Casares, Josefina de	Venezuela	Univ. Central de Venezuela	Cassava/germplas-genetic resources	0.5	C
De Jong, Gerard	Holland	Univ. of Wageningen	Cassava/rural sociology	6	C
Geurts, Peter	Holland	Univ. of Wageningen	Tropical Pastures/soils	7	C
Haerter, Gerd	West Germany	Technical Univ. of Berlin	Tropical Pastures/animal health	3	C
Isaacs, Camilo Humberto	Colombia	CENICARA	Others/station operations management	1	C
Janssen, Willen	Holland	Univ. of Wageningen	Cassava/economics	6	C
Navarrete, Luis Fernando	Peru	INIA	Others/audiotutorials	2	C
Peralta, Pedro Ariel	Panamá	Banco Nacional de Panamá	Tropical Pastures/management and util.	2	C
Rosania, Antonio	Italy	Instituto Agronómico de Ultramar	Cassava/special studies	2	C
Sánchez, David	Mexico	INIA	Cassava/plant physiology	0.5	C
Trench, Thelma	South Africa	Anglo American Corporation	Cassava/germplas-genetic resources	0.5	C
Van der noll, Ilona	Holland	Univ. of Wageningen	Cassava/economics	3	C
Vorster, Thomas	South Africa	Anglo American Corporation	Cassava/plant breeding	0.5	C
SHORT COURSE PARTICIPANTS					
Alvarado, Arnoldo	Venezuela	FONAIAP	Others/seed production	1	C
Alvarado, Adalberto	Guatemala	ICTA	Beans/production	1	C
Amorin Neto, Silvino	Brazil	PESAGRO-RIO	Rice/production	1	C
Aristizabal, José Fernando	Colombia	CIAT	Others/seed production	2	C
Aya, Germán	Colombia	ICA	Others/seed production	2	C
Barillas, José Rolando	El Salvador	CENTA	Rice/production	1	C
Barreto, Vania Trindade	Brazil	EMBRAPA	Others/seed production	2	C
Bastos de, Messias	Brazil	PESAGRO-RIO	Beans/production	1	C
Bautista, Vidal	Peru	Univ. Agraria La Molina	Rice/production	1	C
Beauduy, Jean-Max Dominique	Haiti	Ministerio de Agricultura	Others/seed production	1	C
Beingolea, Luis	Peru	Univ. Agraria La Molina	Others/seed production	2	C
Bezerra, Luis	Brazil	EMATER	Others/seed production	2	C
Bisono, José Alberto	Dom Rep	PROSEDOCA	Others/seed production	1	C
Burgoa, Ben Ali	Panama	Univ. de Panama	Tropical Pastures/production	1	C
Bonilla, Heberto	Colombia	ICA	Beans/production	1	C
Caballero, Rene Carlos	Bolivia	Univ. Gabriel René Moreno	Others/seed production	1	C
Castiblanco, Luis Antonio	Colombia	ICA	Others/seed production	2	C
Cavalcante, Edson	Brazil	EMAPA	Cassava/production	1	C
Cerrato, Ricardo	Honduras	Ministerio de Rec. Naturales	Others/seed production	1	C
Cevallos, Manuel Bolívar	Ecuador	Ministerio de Agricultura y Ganad.	Rice/production	1	C
Chávez, Adolfo	Mexico	INIA	Beans/production	1	C

<u>NAME</u>	<u>COUNTRY</u>	<u>INSTITUTION</u>	<u>PROGRAM/DISCIPLINE</u>	<u>MONTHS OF TRAINING COMPLETED AS OF DEC.31,1980</u>	<u>STATUS AS OF DEC.31, 1980</u>
Contreras, Augusto	Venezuela	FUNIATROP	Others/seed production	1	C
Correa, Jairo	Colombia	Secret. de Agric. y Fom. Antioquia	Cassava/production	1	C
Cortes, Rogelio	Bolivia	Min. de Asunts. Camp. y Agr.	Others/seed production	2	C
Costales, Jorge	Ecuador	INIAP	Tropical Pastures/production	3	C
da Almeida, Manoel	Brazil	EMATER	Cassava/production	1	C
da Costa, Carlos	Brazil	EMATER	Cassava/production	1	C
da Silva, Fortunato	Brazil	EMATER	Cassava/production	1	C
da Silva, José	Brazil	EMATER	Cassava/production	1	C
Dávalos, Alberto	Colombia	ACARESC	Cassava/production	1	C
Deigado, Guillermo	Colombia	ICA	Rice/production	1	C
Do Amaral, Joao Batista	Brazil	Caja Agraria	Others/seed production	2	C
Domínguez, Roberto	Colombia	ASTER-AMAPA	Cassava/production	1	C
Drudy, Ari	Brazil	ICA	Others/seed production	2	C
Durán, Daniel	Brazil	EMGOPA	Tropical Pastures/production	2	C
Estrada, Luis Miguel	Bolivia	Univ. Gabriel René Moreno	Others/seed production	2	C
Fernández, Gloria Marta	Colombia	PROSFMILAS	Other/seed production	1	C
Fernández, Benedito	Brazil	PESAGRO-RIO	Others/seed production	1	C
Fialho, Ari	Brazil	PESAGRO-RIO	Beans/production	1	C
Flesch, Roger	Brazil	EMBRATER	Rice/production	1	C
Fuentes, David	Brazil	EMPASC	Beans/production	1	C
García, Andrés	Guatemala	ICTA	Beans/production	1	C
García, Juan Carlos	Dom Rep	CEDIA	Others/seed production	1	C
García, Rogerio	Mexico	Escuela de Graduados de Chapingo	Others/seed production	1	C
Gislón, Rogerio	Brazil	ACARESC	Beans/production	1	C
Gómez, Jaime	Colombia	ICA	Tropical Pastures/production	3	C
Goyas, Hugo	Peru	INIA	Beans/production	1	C
Grobman, Daniel	Peru	Grobman Genotécnica S.A.	Others/seed production	2	C
Guillott, Raul	Costa Rica	Consejo Nacional de Producción	Others/seed production	2	C
Guzmán, Lucas	Dom Rep	Secretaría Estado de Agric.	Cassava/production	1	C
Hernández, Cipriano	Mexico	INIA	Beans/production	1	C
Ibarra, Francisco	Mexico	INIA	Beans/production	1	C
Idiáquez, Jorge	Peru	Ministerio de Agric. y Aliment.	Beans/production	1	C
Jaramillo, Guillermo	Colombia	FEDEARROZ	Others/seed production	1	C
Kranz, Walter	Brazil	IAPAR	Beans/production	1	C
Languidey, Pura	Bolivia	Univ. Gabriel René Moreno	Beans/production	1	C
Laserna, Carmen	Colombia	Semillas El Zorro	Others/seed production	2	C
Leyva, Oscar	Guatemala	Univ. de San Carlos Guatemala	Others/seed production	1	C
Lopes, Carlos	Brazil	EMBRAPA	Others/seed production	1	C
López, Natividad	Mexico	INIA	Beans/production	1	C
López, Manuel	Dom Rep	Secretaría de Estado de Agr.	Others/seed production	1	C
Loyola, Jorge Luis	Brazil	EMBRAPA	Cassava/production	1	C
Maciel, Salvador	Brasil	EMBRAPA	Others/seed production	1	C
Manzueta, Julio	Dom Rep	Secretaría de Estado de Agr.	Others/seed production	1	C
Martinez, Rafael	Honduras	Ministerio de Rec. Naturales	Others/seed production	2	C
Mathurin, Gerald	Haiti	ODVA	Rice/production	1	C
Matsumoto, Sigue	Brazil	EMATER	Others/seed production	2	C

<u>NAME</u>	<u>COUNTRY</u>	<u>INSTITUTION</u>	<u>PROGRAM/DISCIPLINE</u>	<u>TRAINING COMPLETED AS OF DEC.31,1980</u>	<u>AS OF DEC.31, 1980</u>
Moreira de A, Jair	Bolivia	Cooperación Técnica Suiza	Others/seed production	2	
Ochoa, Oscar	Venezuela	Univ. Central de Venezuela	Beans/production	1	C
	Brazil	EMATER	Beans/production	1	C
			Others/production	1	C
			Others/seed production	1	C
			Tropical Pastures/production	3	C
Urtiz, Roberto	Honduras	Ministerio de Rec. Naturales	Rice/production	1	C
Ortiz, Leonel	Guatemala	ICTA	Rice/production	1	C
Osorio, Guillermo	Colombia	ICA	Beans/production	1	C
Pacova, Bras Eduardo	Brazil	EMCAPA	Beans/production	1	C
Palomera, Enrique	Chile	INIA	Others/seed production	1	C
Pereira, Carlos Augusto	Brazil	IAPAR	Others/seed production	2	C
Pérez, Hugo	Panama	Ministerio de Agric. y Ganad.	Rice/production	1	C
Polania, Fabio	Colombia	ICA	Others/seed production	2	C
Prado, Victor	Costa Rica	Ministerio de Agric. y Ganad.	Tropical Pastures/production	3	C
Ramos, Milton	Brazil	EMPASC	Rice/production	1	C
Reyes, Nelson	Bolivia	CIAT	Others/seed production	1	C
Reyes, César	Peru	IVITA	Others/seed production	2	C
Ricot Rolland	Haiti	Instituto de Desarrollo Agrícola	Others/seed production	2	C
Rivera, Celerino	Panama	MIDA	Others/seed production	2	C
Roby, Luis Alberto	Ecuador	INIAP	Tropical Pastures/production	1	C
Romero, Ismael	Mexico	NORTHRUP KING CIA.	Others/seed production	1	C
Ruy Franco, Alquibaro	Brazil	EMATER	Others/seed production	2	C
Salive, Alvaro	Colombia	FEDEARROZ	Rice/production	1	C
Sandoval, Alberto	Peru	INIA	Beans/production	1	C
Santisteban, José	Peru	INIA	Others/seed production	2	C
Saumeth, Manuel	Colombia	ICA	Cassava/production	1	C
Scaranari, Ciro	Brazil	CATI	Others/seed production	2	C
Seminario, Osvaldo	Peru	Comité de Productores de Arroz	Rice/production	1	C
Silva Bras, Luis	Brazil	CATI	Others/seed production	1	C
Steindorff, Araldo Pedro	Brazil	EMGOPA	Rice/production	1	C
Tapia, Francisco	Chile	INIA	Beans/production	1	C
Tello, Tomas	Peru	INIA	Others/production	1	C
Tijerina, Victor	Mexico	INIA	Tropical Pastures/production	1	C
Toyama, Augusto	Peru	HORTUS S.A.	Others/seed production	1	C
Valera, Luis	Mexico	INIA	Beans/production	1	C
Valle, Armando	Ecuador	INIAP	Others/seed production	1	C
Vanegas, José Angel	Nicaragua	INTA	Others/seed production	1	C
Varela, Rufino	Colombia	Secret. de Fomento y Desarrollo	Tropical Pastures/production	3	C
Vargas, Luis Guillermo	Costa Rica	Ministerio de Agric. y Ganad.	Beans/production	1	C
Vásquez, Edwin	Peru	Ministerio de Agric. y Alim.	Others/seed production	2	C
Vera, Luis Eduardo	Ecuador	INIAP	Others/seed production	2	C
Villavicencio, Julio César	Ecuador	INIAP	Others/seed production	2	C
Vina, Dario	Colombia	ICA	Others/seed production	1	C
Yau, José	Panama	IDIAP	Others/seed production	1	C
Yepes, Francisco	Colombia	Secret. de Agric. y Fom. Antioquia	Cassava/production	1	C
Zambrano, Carlos	Ecuador	Ministerio de Agricultura	Rice/production	1	C



## PROFESSIONALS TRAINED AT CIAT IN 1980, SOURCE OF SUPPORT AND CATEGORY OF TRAINING

SOURCE OF SUPPORT	CATEGORY OF TRAINING						
	VISITING RESEARCH ASSOCIATES	RESEARCH SCHOLARS	POSTGRADUATE RESEARCH INTERNS	POSTGRADUATE RESEARCH INTERNS WITH SHORT COURSE PARTICIPATION	SPECIAL TRAINEES	SHORT COURSE PARTICIPANTS	PROGRAM SUB-TOTALS
	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months
Anglo American Corporation, South Africa					2 (1.5)		2 (1.5)
Banco Nacional de Panama, Panama					1 (2.0)		1 (2.0)
Cornell University, USA	2 (9.0)						2 (9.0)
CENICARA, Colombia					1 (1.0)		1 (1.0)
CENTA-BID, El Salvador			1 (2.0)				1 (2.0)
Centro Internacional de Agricultura Tropical, CIAT, Colombia	14 (93.5)	5 (41.0)	33 (129.0)	58 (268.0)	1 (2.0)	105 (139.0)	216 (672.5)
EMBRATER, Brazil				2 (8.0)		3 (5.0)	5 (13.0)
FEDEARROZ, Colombia						1 (1.0)	1 (1.0)
FAO, Rome	1 (12.0)						1 (12.0)
Fulbright Foundation, USA	1 (7.0)						1 (7.0)
FUNIATROP, Venezuela						2 (2.0)	2 (2.0)
German Foundation for the International Development	1 (12.0)						1 (12.0)
German Society for Technical Cooperation	1 (12.0)						1 (12.0)
Grobman Genotécnica S.A., Peru						1 (2.0)	1 (2.0)
GTZ-DAAD, Alemania	3 (30.0)				1 (3.0)		4 (33.0)
HORTUS S.A., Peru						1 (1.0)	1 (1.0)
IDRC, Canada		2 (12.5)				25 (25.0)	27 (37.5)
Instituto Nacional de Investigaciones Agrícolas, INIA, Mexico					2 (1.0)		2 (1.0)
Instituto Agronómico de Ultramar, Italy					1 (2.0)		1 (2.0)

(Continued)

SOURCE OF SUPPORT	VISITING RESEARCH ASSOCIATES	RESEARCH SCHOLARS	POSTGRADUATE RESEARCH INTERNS	POSTGRADUATE RESEARCH INTERNS WITH SHORT COURSE PARTICIPATION	SPECIAL TRAINEES	SHORT COURSE PARTICIPANTS	PROGRAM SUB-TOTALS
	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months
New Zealand Embassy, Peru			1 (5.0)				1 (5.0)
Northrup King y Cia. S.A., Mexico						1 (1.0)	1 (1.0)
ODH, Haiti				1 (4.0)			1 (4.0)
PROSEDOCA, Dominican Republic						1 (1.0)	1 (1.0)
PROSEMILLAS, Colombia						1 (1.0)	1 (1.0)
Rockefeller Foundation, USA	1 (8.0)						1 (8.0)
Semillas El Zorro, Colombia						1 (2.0)	1 (2.0)
Tropical Products Institute, England	1 (3.0)						1 (3.0)
Universidad Central, Venezuela					1 (0.5)		1 (.05)
University Wageningen, Holland	1 (12.0)				4 (22.0)		5 (34.0)
United Nations Development Programme, UNDP	1 (12.0)	16 (187.0)					17 (199.0)
University of London, England	1 (12.0)						1 (12.0)
	28 (222.5)	23 (240.5)	35 (136.0)	61 (280.0)	14 (35.0)	142 (180.0)	303 (1094.0)



Table 6.

## NUMBER OF POSTDOCTORAL FELLOWS IN CIATS PROGRAMS DURING 1980

COMMODITY PROGRAM	DISCIPLINE									TOTAL
	AGRONOMY	ECONOMICS	ENTOMOLOGY	LEGUME AGRONOMY	PLANT BREEDING	PLANT PATHOLOGY	PLANT PHYSIOLOGY	SOIL PHOSPHATES	SPECIAL STUDIES	
	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months	No. Months
BEANS			1 (5.0)		1 (11.0)	1 (2.0)	2 (14.0)			5 (32.0)
CASSAVA		1 (12.0)	1 (12.0)						1 (6.0)	3 (30.0)
RICE		1 (3.0)								1 (3.0)
TROPICAL PASTURES	3 (36.0)	2 (13.0)		2 (10.0)				1 (12.0)		8 (71.0)
TOTAL	3 (36.0)	4 (28.0)	2 (17.0)	2 (10.0)	1 (11.0)	1 (2.0)	2 (14.0)	1 (12.0)	1 (6.0)	17 (136.)

Table 7. Sponsored and co-sponsored and hosted events held at CIAT during 1980.

<u>CIAT-sponsored or co-sponsored conferences in 1980</u>	<u>Participants</u>
Workshop on Amazon Land Use and Agricultural Research (CIAT/RF/GTZ) (16-18 April)	48
Seminar on Alcohol as a Carburetant (19-22 May)	116
Workshop on Cassava Genetic Resources (CIAT/IBPGR) (8-11 December)	10
Workshop for Bean Breeders (8-13 December)	12
<u>CIAT-hosted conferences in 1980</u>	
Seminar on Training of Rural Development Program Directors (Save the Children Federation) (16-23 March)	25
Seminar on the Importance of Breast Feeding in Nutrition (ICBF) (12-14 May)	45
Seminar on Animal Nutrition (FEDERAL) (26-27 June)	40
Seminar on Technical Assistance to Agricultural Credit Users (Caja Agraria) (13-17 October)	60
Seminar on Infant Feeding (FES) (20-23 October)	80
<u>CIAT- Organizational and Administrative Meetings</u>	
FAO-ICA Course on Plant Quarantine (21 April-9 May)	30
Meeting of Board of Trustees (27-28 May)	16
Coffee Federation Course on Beans and Maize Association (23-27 June)	60
Review of ETES Program (25-27 June)	10
ICA Course on Seed Technology (27 October-7 November)	25
Program Reviews (1-6 December)	100