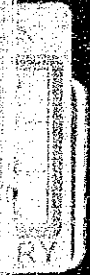


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1980

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マイクログ
 フィルム作成

FOREWORD

The world economy is still beset with such problems as inflation, economic recession and unemployment. It is gratifying, however, that against such a background there are moves to settle problems not through confrontation but through dialogue and harmony e.g. the United Nations global negotiations, the North-South Summit talks, etc.

Now that Japan occupies an important position in the world economy, there exist world-wide expectations that it should play an active role in the solution of the North-South problem.

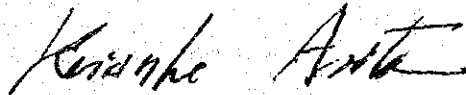
Japan, fully recognizing its responsibility, has achieved more than its pledge to double Official Development Assistance in the three years ending 1980. Japan is resolved to make further efforts to improve the quality and quantity of Official Development Assistance aiming at a new target.

From the viewpoint that nation-building should start with the development of human resources who will be responsible for national development, Japan has been promoting "cooperation for the development of human resources."

In these circumstances, the Japan International Cooperation Agency (JICA) desires to contribute to world peace and stability through smooth and effective implementation of its international cooperation focusing on technical cooperation as a cornerstone of the human resources development cooperation programme.

It is my pleasure to present the "1980 Annual Report of JICA" describing its performance in fiscal 1979 in an attempt to make known JICA's activities.

December 1980



Keisuke Arita
President,

Japan International Cooperation Agency

CONTENTS

Part I	The Japan International Cooperation Agency and its Functions	7
Part II	Performance of Japan International Cooperation Agency in Fiscal 1979	17
Chapter 1.	Government-Sponsored Technical Cooperation	19
	Section 1. Training Programme for Overseas Participants	19
	Section 2. Expert Dispatch Programme	24
	Section 3. Equipment Supply Programme	29
	Section 4. Project-Type Technical Cooperation Programme	34
	Section 5. Development Survey Programme	46
Chapter 2.	Grant-Aid Cooperation Promotion Programme	54
Chapter 3.	Japan Overseas Cooperation Volunteers Programme ...	61
Chapter 4.	Development Cooperation Programme (Investment and Financing of Development Programme)	68
Chapter 5.	Emigration Service	68
Chapter 6.	Training and Recruiting of Qualified Japanese Experts for Technical Cooperation	71
Appendices	(Statistics)	73
	Performance in 1979 by Region, Country, Type of Cooperation and Sector (As of March 31, 1980)	74

Part I

**The Japan International Cooperation Agency
and its Functions**

The Japan International Cooperation Agency and its Functions

1. History and Functions

The Japan International Cooperation Agency (hereinafter referred to as "the Agency" or "JICA") was established on August 1, 1974 under the Japan International Cooperation Agency Law (Law No. 62, 1974) as an executing organ of Government-sponsored technical cooperation for developing countries and as an agent to administer emigration services. At the time of its establishment, the Agency took over the functions of the then existing Overseas Technical Cooperation Agency, established in 1962 for the purpose of providing overseas technical cooperation, and those of the then Japan Emigration Service instituted in 1963. At that time, the Agency also absorbed all the functions of the Japan Overseas Agricultural Development Foundation and assumed new responsibilities including (project) development cooperation, training and recruiting of qualified Japanese experts for technical cooperation.

The Agency performs its activities for international cooperation in accordance with the Japan International Cooperation Agency Law under the supervision of the Ministry of Foreign Affairs, the overall authorities, as well as of the Ministry of Agriculture, Forestry and Fisheries and the Ministry of International Trade and Industry, which are responsible for specific matters under their jurisdiction. For the smooth and efficient discharge of its duty for international cooperation, the Agency is striving to obtain a wide range of cooperation from the relevant government agencies, local public bodies and private organizations

in Japan by keeping close contact with them and to act in concert with the governments of developing countries and the related international organizations.

The functions of the Agency fall under the following categories:

- (1) Government-sponsored technical cooperation
- (2) Grant-aid cooperation promotion programme
- (3) Dispatch of Japan Overseas Cooperation Volunteers (JOCV)
- (4) Development Cooperation Programme (Investment and financing of development project)
- (5) Emigration services
- (6) Training and recruiting of qualified Japanese experts for technical cooperation

The fund required by the Agency for carrying out its technical cooperation activities is budgeted by the Japanese Government under its Official Development Assistance (ODA) Programme. The share of the Agency in the total expense for technical cooperation of the Government in fiscal 1979 was 66%.

2. Budget

The budget of the Agency consists of Grant Budget, Investment and Funds in Trust. The amount of the initial budget of the Agency for fiscal 1979 was ¥54,373 million, comprising ¥46,800 million for Grant Budget, ¥3,211 million for Investment and ¥4,362 million for Funds in Trust.

The actual expenditure by the Agency in relation to technical cooperation in fiscal 1979 amounted to ¥39,170 million, including the expense brought forward from 1978. Fig. 2 shows

the expenditure by programme and Fig. 3 shows its distribution ratio by area.

**Fig. 1. Expenditure of Technical Cooperation by Programme
(Calendar Year 1979)**

Unit: U.S.\$1,000

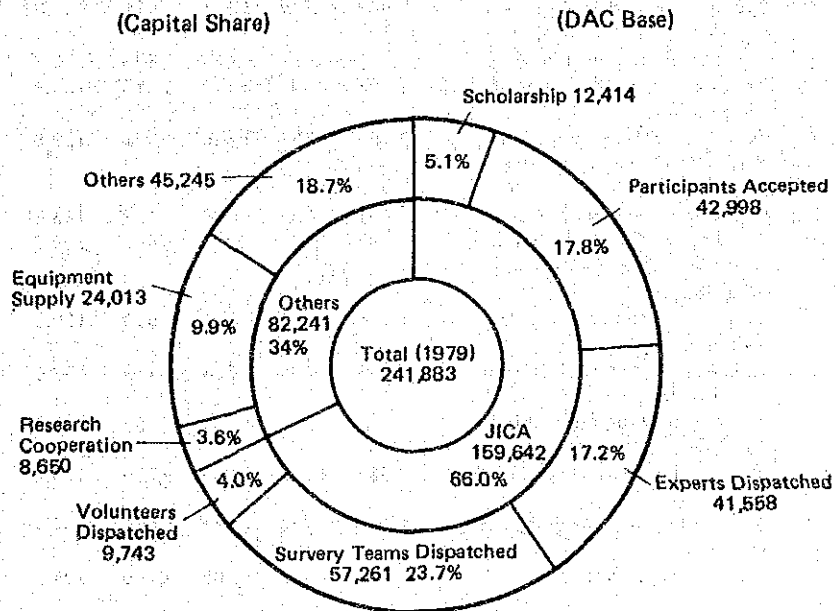


Table 1. Trend of JICA's Budget

(Unit: Million Yen)

Expenses	Year				% compared with previous year
	1976	1977	1978	1979	
I. Grant	29,483	34,629	39,855	46,800	117.4
1. Working Expenses	21,104	25,263	29,719	36,059	121.3
(1) Expenses for Overseas Participants accepted	3,747	4,510	6,176	5,752	93.1
(2) Expenses for Experts Dispatched	3,500	4,165	4,654	5,588	120.1
(3) Expenses for Development Survey	4,081	5,519	6,683	8,617	128.9
(4) Expenses for Technical Cooperation Centres	1,499	1,749	2,351	2,939	125.0
(5) Expenses for Equipment Supply	382	411	615	835	135.8
(6) Expenses for Health and Medical Cooperation	1,805	1,980	2,172	2,676	123.2
(7) Expenses for Agricultural and Forestry Development Cooperation	2,465	2,751	3,646	4,367	119.8
(8) Expenses for Experts' Welfare	51	64	78	112	143.6
(9) Expenses for Training & Recruiting Qualified Persons for Technical Cooperation	289	359	390	467	119.7
(10) Expenses for Development Cooperation	414	464	513	613	119.5
(11) Expenses for Industrial Development Cooperation	586	646	566	779	137.6
(12) Expenses for Promotion of Grant Aid Cooperation	-	-	9	63	700.0
(13) Expenses for Overseas Cooperation Volunteers	2,285	2,645	2,866	3,250	113.4
2. Working Expenses for Emigration Service	1,188	1,402	1,531	1,601	104.6
3. Administrative Expenses	7,190	7,963	8,606	9,140	106.2
II. Investment	8,170	6,447	2,856	3,211	112.4
1. Expenses for Facilities	370	697	1,506	1,761	116.9
2. Fund for Investment and Finance of Development	7,200	5,000	500	400	80.0

Expenses	Year				% compared with previous year
	1976	1977	1978	1979	
3. Fund for Investment and Finance of Emigration	600	750	850	1,050	123.5
III. Funds in Trust	2,738	3,206	3,623	4,362	120.4
1. Funds in Trust for Surveys on Overseas Development	2,638	3,117	3,548	4,039	113.8
(1) Expenses for Surveys on Overseas Development	1,434	1,709	2,072	2,479	119.6
(2) Expenses for Basic Surveys on Resources Development Cooperation	1,223	1,408	1,476	1,560	105.7
2. Expenses for the Southeast Asian Fisheries Development Centre	80	89	75	323	430.7
Total	40,391	44,282	46,334	54,373	117.4

Table 2. Expenses of JICA by Type of Cooperation

Expense & Person Type of Cooperation	1975		1976	
	Expense (¥Million)	Person	Expense (¥Million)	Person
1. Participants	3,036 (18.6%)	2,132	3,730 (17.9%)	2,272
2. Experts, Survey Team Members	8,579 (52.6%)	1,781	11,717 (56.1%)	2,304
(1) Experts	3,925 (24.1%)	577	5,031 (24.1%)	702
(2) Survey Team	4,654 (28.5%)	1,204	6,686 (32.0%)	1,608
3. Volunteers	1,627 (10.0%)	216	1,872 (9.0%)	228
4. Equipment Supply	2,850 (17.5%)	—	3,256 (15.6%)	—
5. Others	214 (1.3%)	—	308 (1.4%)	—
Total	16,306 (100.0%)		20,883 (100.0%)	

1977		1978		1979		Total (1954-1979)	
Expense (¥Million)	Person	Expense (¥Million)	Person	Expense (¥Million)	Person	Expense (¥Million)	Person
4,556 (15.9%)	2,688	4,976 (15.2%)	2,850	5,805 (14.8%)	3,124	36,862 (17.6%)	35,064
15,073 (52.7%)	3,137	19,085 (58.4%)	3,485	22,947 (58.6%)	3,694	110,188 (52.8%)	24,931
6,326 (22.1%)	949	8,372 (25.6%)	949	9,544 (24.4%)	994	54,448 (26.1%)	9,077
8,747 (30.6%)	2,188	10,713 (32.8%)	2,536	13,403 (34.2%)	2,700	55,739 (26.7%)	15,854
2,187 (7.7%)	248	2,286 (7.0%)	303	2,861 (7.3%)	348	19,074 (9.1%)	3,110
6,418 (22.4%)	—	5,931 (18.1%)	—	6,997 (17.9%)	—	40,729 (19.5%)	—
383 (1.3%)	—	432 (1.3%)	—	560 (1.4%)	—	2,045 (1.0%)	—
28,617 (100.0%)		32,710 (100.0%)		39,170 (100.0%)		208,896 (100.0%)	

Fig. 2. Expenses by Programme of Technical Cooperation (1979)

Unit: Thousand Yen

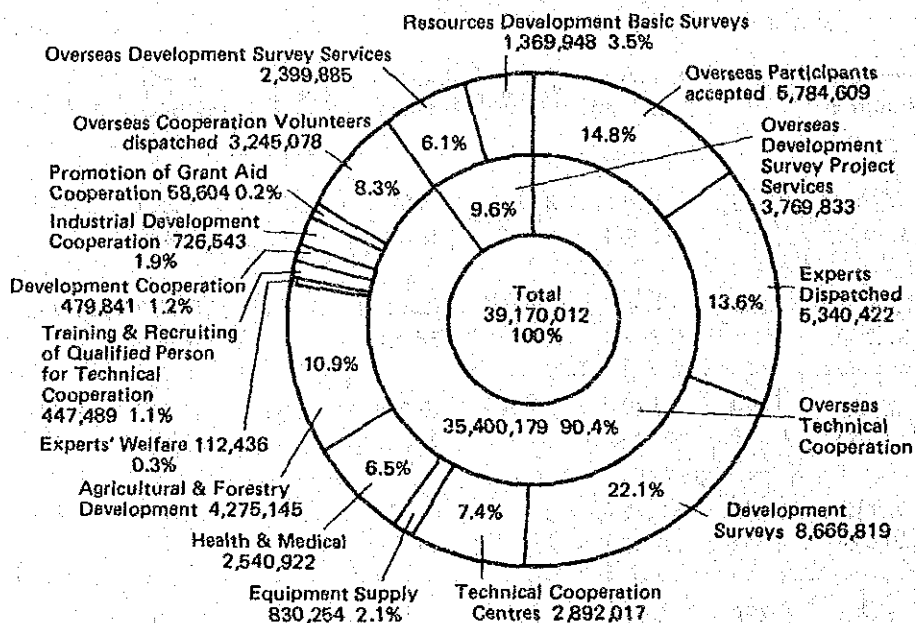


Fig. 3. Expenses for Technical Cooperation by Region

Region	Percentage	Amount (Thousand Yen)
Asia	49.1%	19,900,000
(ASEAN Countries)	36.6%	15,300,000
Middle East	11.7%	4,800,000
Africa	14.6%	5,800,000
Latin America	19.9%	7,900,000
Oceania, Europe	1.5%	600,000
International Organizations	1.7%	700,000
Others	1.5%	600,000
Total (1954-1979)		
Asia	53.2%	22,800,000
(ASEAN Countries)	34.1%	14,500,000
Middle East	10.6%	4,300,000
Africa	12.9%	5,200,000
Latin America	16.6%	6,800,000
Oceania, Europe	1.6%	650,000
International Organizations	1.1%	450,000
Others	1.1%	450,000

Part II
Performance of
Japan International Cooperation Agency
in Fiscal 1979

Chapter 1.

Government-Sponsored Technical Cooperation

Section 1. Training Programme for Overseas Participants

1. Outline

Japan has been providing courses for overseas participants ever since it joined the Colombo Plan in 1954.

Two types of training are provided in Japan for them. One is Group Training, for which courses are organized according to the greatest common needs of developing countries. The number of courses of this type averages 171 each year. The other is Individual Training, for which courses are organized in accordance with specific requirements of a region or a country. The latter type includes the training of local counterparts of Japanese experts in Japan-assisted projects with a view to improving the efficiency of project implementation, as well as the training requested by United Nations and other international organizations. The participants comprise mainly administrative officers, researchers and middle-level technicians from the public, public bodies and private sectors and are limited to those who have been recommended by the government concerned.

The curricula are prepared with due consideration given to the general needs of developing countries in the case of group training and to specific needs in the case of individual training.

Training is offered at eight centres operated by the Agency, and at other special training institutes with the cooperation of research and experiment stations of various government agencies, local bodies, universities, private enterprises, public corporations and others.

2. Performance in 1979

The number of participants including project counterpart participants accepted in fiscal 1979 was 3,124, and the cumulative total of them accepted since 1954 reached 35,064. Of the total number, 1,757 (56.2%) were from Asia, 633 (20.3%) from Latin America, 486 (15.6%) from Middle East, 206 (6.6%) from Africa and 42 (1.3%) from other regions. By country, 293 were from Indonesia, 256 from Thailand and 215 from the Philippines. Sector-wise, 505 (16.2%) were in administration, 410 (13.1%) in agriculture and 408 (13.1%) in public works fields. The performance of the training programme for overseas participants in fiscal 1979 by country and sector is shown in the appendix.

Fig.1. Number of Participants Accepted by Sector and Region in 1979

Unit: Person

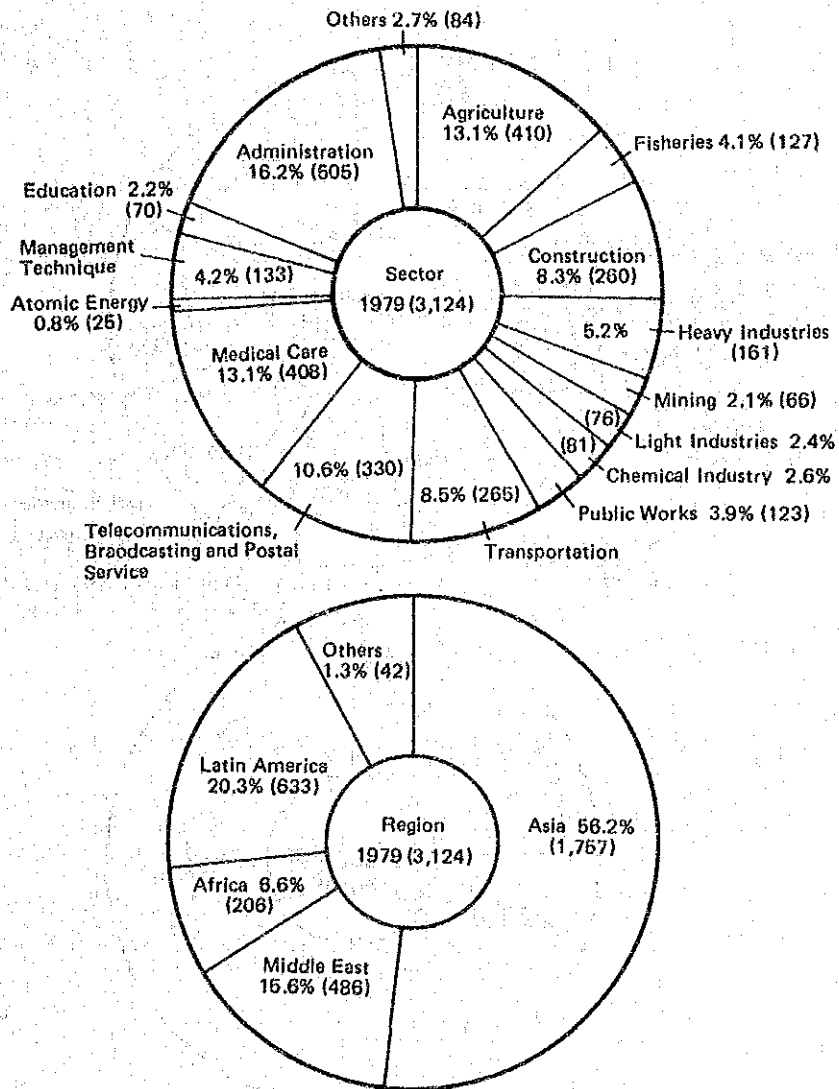


Fig. 2. Total Number of Participants Accepted by Sector and Region (1954-1979)

Unit: Person

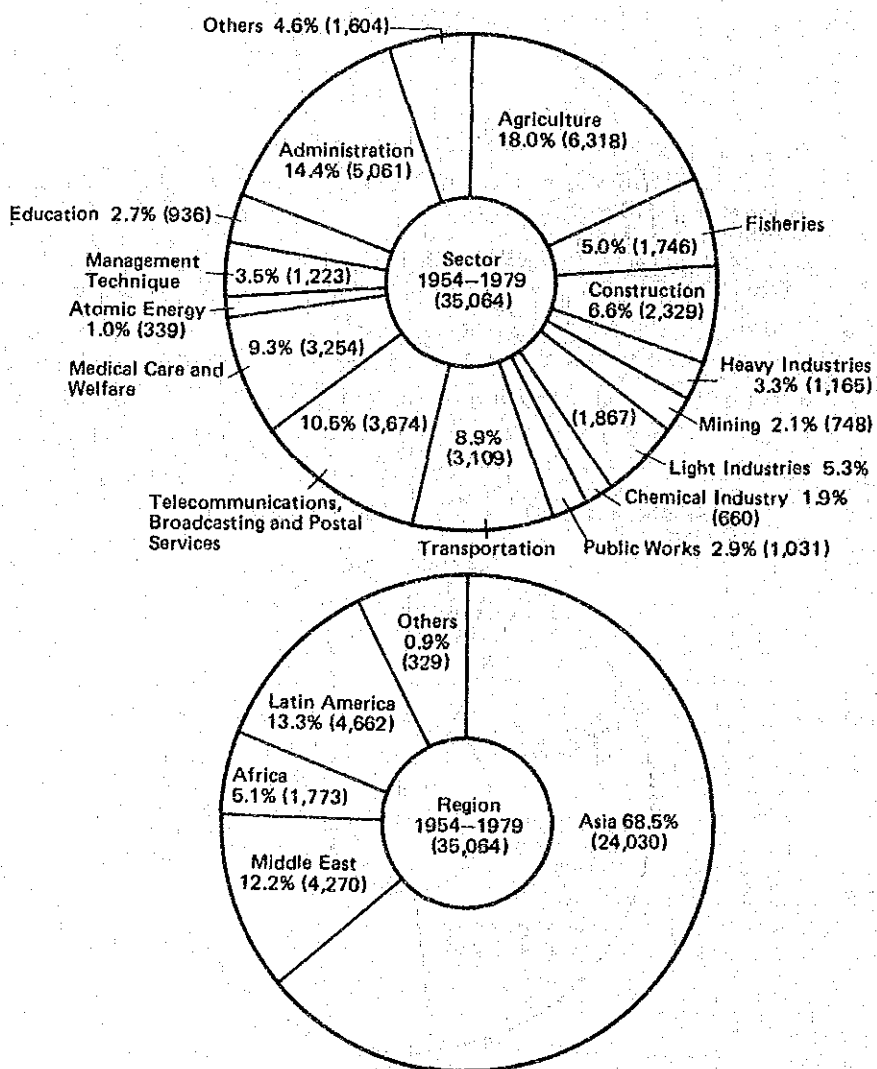
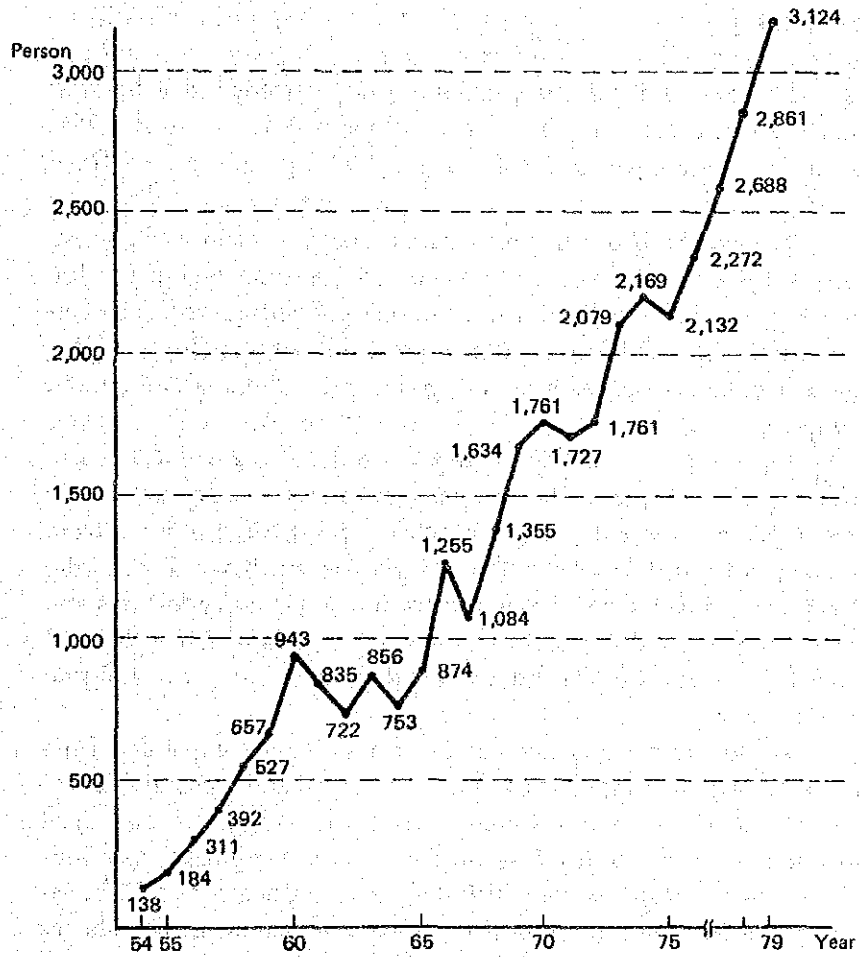


Fig. 3. Number of Participants Accepted by Year (1954–1979)



Section 2. Expert Dispatch Programme

1. Outline

The expert dispatch programme has expanded year by year since 28 experts were sent to Southeast Asia in fiscal 1955, with its cumulative total reaching 5,509 by the end of fiscal 1979.

The expert dispatch from Japan is assigned mainly to government agencies, research and experiment stations, (construction works, academic institutions, or training institutes of recipient countries to engage in planning, survey and research, providing guidance and instructions, and giving advice for development projects.

In selecting experts or engineers for assignment abroad, the Agency requests the related government organizations to recommend qualified persons or picks up qualified persons from among the candidates registered with the Agency. Those who have been selected are given orientation on local conditions and other related matters and are trained in foreign languages and specific technology before their departure for the assigned country.

While the recipient countries of expert have expanded from Asia to Middle East, Africa, Latin America and Oceania. These experts work in joint research centres when Japanese and local researchers work together on problems of development in various international organizations including the Southeast Asia Fisheries Development Centre, whose secretariate is located in the suburbs of Bangkok, Thailand and in various other places.

Besides this programme, experts are also sent for Project-

type Technical Cooperation Programme described in Section 4, Development Survey Programme described in Section 5 and Development Cooperation Programme (Investment and Financing of Development Programme) described in Chapter 4, though the number of experts assigned under the last programme is rather small. These programmes will be discussed under respective sections and chapters.

2. Performance in 1979

In 1979, the number of experts who were sent abroad under the expert dispatch programme reached 437, and the cumulative total of them dispatched since 1955 reached 5,520. By region, 203 (46.5%) experts were sent to Asia, 50 (11.4%) to Middle East, 37 (8.5%) to Africa, 75 (17.2%) to Latin America, 4 (0.94%) to Oceania and 68 (15.6%) to international organizations. By country, 49 experts were assigned to Indonesia, 47 to Thailand and 29 to the Philippines. Sector-wise, agriculture accounted for 68 experts (15.6%), construction 63 (14.4%), telecommunications, broadcasting and postal services 57 (13.0%) and fisheries 47 (10.8%). Performance of the expert-dispatch programme in fiscal 1979 by country and sector is shown in the appendix.

Fig. 1. Number of Experts Dispatched by Sector and Region (1979)

Unit: Person

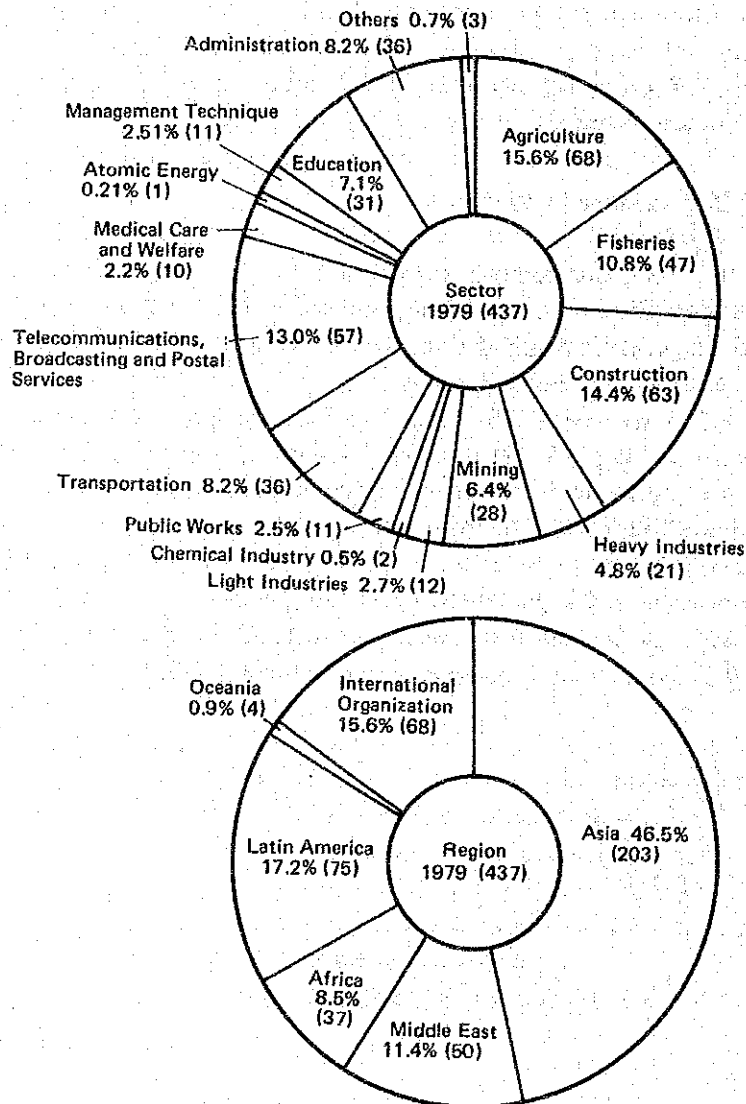


Fig. 2. Total Number of Experts Dispatched by Sector and Region (1955-1979)

Unit: Person

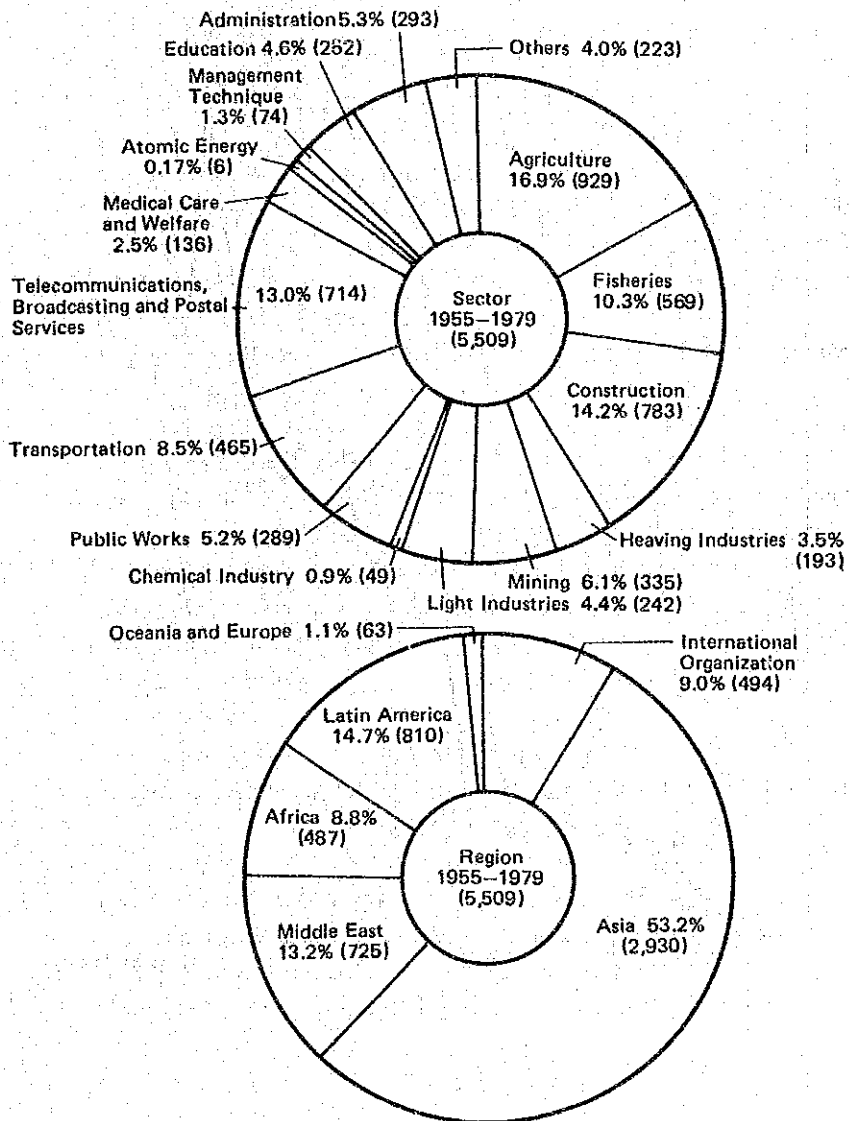
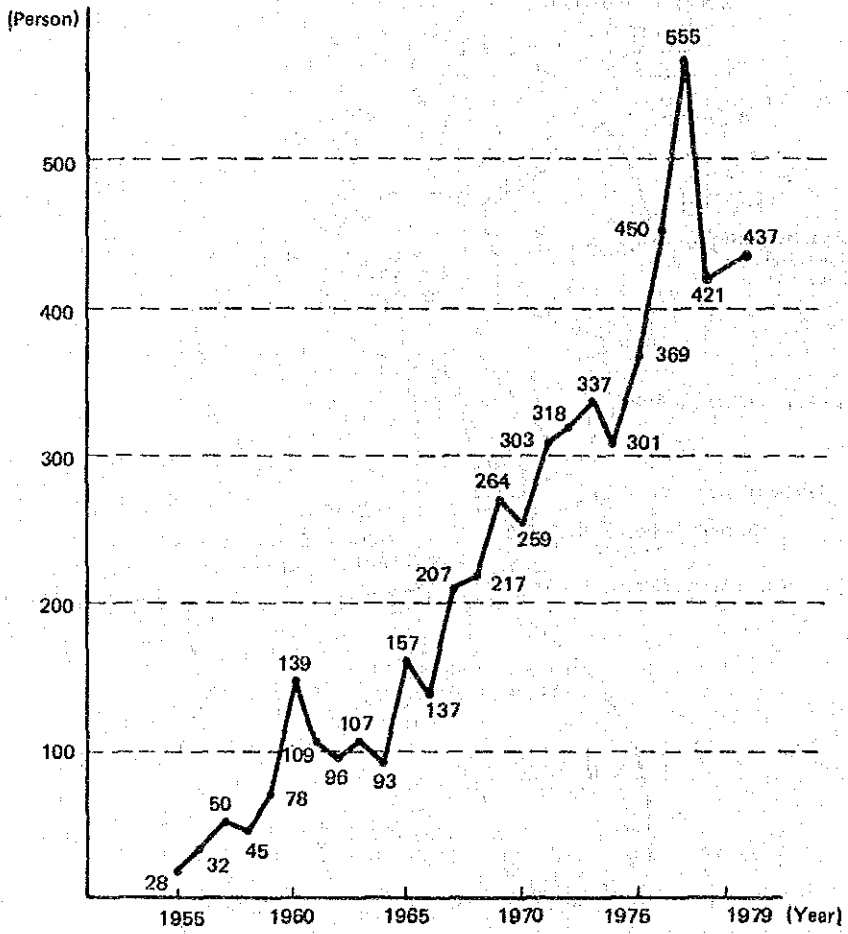


Fig. 3. Number of Experts Dispatched by Year



Section 3. Equipment Supply Programme

1. Outline

The equipment supply programme was initiated in 1964 as part of Japan's technical cooperation. The objective of the programme is to contribute to the economic and social progress of developing countries through supply of needed equipment at the request of the countries which, though acquired certain levels of technical skills and experience, cannot carry out training of personnel and transfer and dissemination of technology smoothly and effectively or cannot utilize the existing technology efficiently for the lack of appropriate equipment.

Principal equipment for the purpose includes, (1) that which makes the work of the assigned experts described in Section 2 more effective (2) that needed by the counterparts of the country concerned to continue their services after the departure of Japanese experts and (3) that needed by the repatriated participants for using effectively their knowledge and skill gained in Japan. The programme is designed to increase the effectiveness of technical cooperation through, so to speak, organic combination of man and materials.

The equipment supplied under this programme has a wide range including agricultural instruments and machinery, machine tools, textile machines, fishing equipment, refrigerated vans for marine products, electron microscopes and telecommunication and broadcasting equipment.

The supply of equipment by the Agency is done not only under this programme but also under the Project-type Technical Cooperation Programme described in Section 4 and Japan Over-

seas Cooperation Volunteers Programme described in Chapter 3, which will be discussed in detail later.

2. Performance in 1979

In 1979, ¥824 million worth of equipment was supplied in a total of 58 cases. By region, Asia accounted for 18 cases amounting to ¥315 million (38.2%), Middle East 5 cases amounting to ¥50 million (6.1%), Africa 12 cases amounting to ¥93 million (11.3%), Latin America 19 cases amounting to ¥299 million (36.3%), Oceania 3 cases amounting to ¥38 million (4.6%) and other region in one case amounting to ¥29 million (3.5%).

The supply of equipment related to the follow-up of experts' activities amounted to ¥476 million (57.8%) in 35 cases and that for after-care services related to repatriated participants amounted to ¥348 million (42.2%) in 23 cases.

Performance of Equipment Supply Programme in Fiscal 1979

AREA COUNTRY	FACILITY
ASIA	
Burma	The Livestock Development and Marketing Corporation
Indonesia	Ministry of Public Works, Water Resources Development Director, Geological Survey of Indonesia
Korea	The College of Engineering, Seoul National University
Malaysia	Muda Agricultural Development Authority
Nepal	The Department of Mines and Geology
Pakistan	Pakistan Telegraph and Telephone Dept.
Philippines	Department of Public Highways
Singapore	Jurong Vocational Institute
Sri Lanka	The Principal Institute
Thailand	Department of Agriculture, Ministry of Agriculture Highland Agriculture Development Project, KASETSART University Department of Health, Bangkok
MIDDLE EAST	
Niger	Ecole des Mines de l'ar-Ministere et de l'Hydraulique
Syria	C. D. C. C. General Organization of Cattle
Tunisia	L'Institut National Scientifique et Technique D'oceanographic et de Peche
AFRICA	
Malawi	Ministry of Agriculture and Natural Resources, Fish Department
Zaire	L'Organisation Pour L'Equipement de Banana-Kinshasa
LATIN AMERICA	
Bolivia	Universidad Mayor de San Andres
Brazil	Instituto de Energia Atomica, Sao Paulo
Chile	Empresa Nacional de Electricidad, S. A.
Costa Rica	Hospital Mexico
Dominican Rep	Dr. Luis E. Aybar Hospital
Honduras	Direccion de Recursos Hidricos, Ministerio de Recursos Naturales
Peru	Instituto Nacional de Investigacion y Capacitacion de Telecomunica- ciones

AREA COUNTRY	FACILITY
OCEANIA	
Fiji	Fiji Broadcasting Commission
Tonga	Ministry of Agriculture, Forests and Fisheries
INTERNATIONAL ORGANIZATION (ILO)	
Torino Centre	International Centre for Advanced Technical and Vocational Training in Torino

Fig. 1 Equipment Supply by Region (1979)

Unit: Million Yen

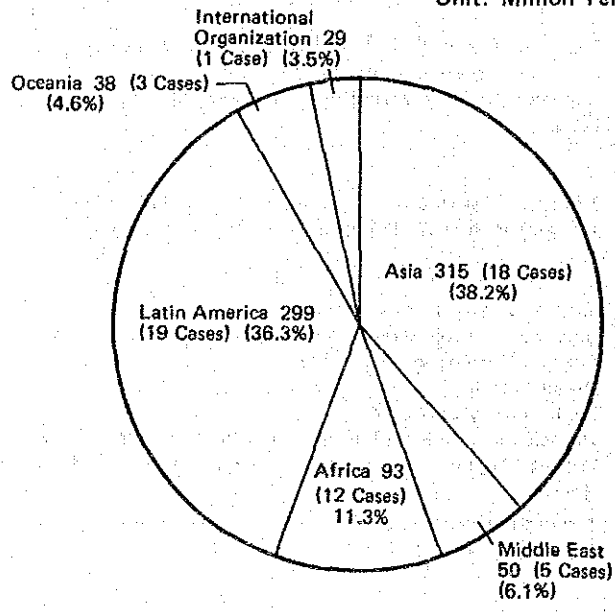
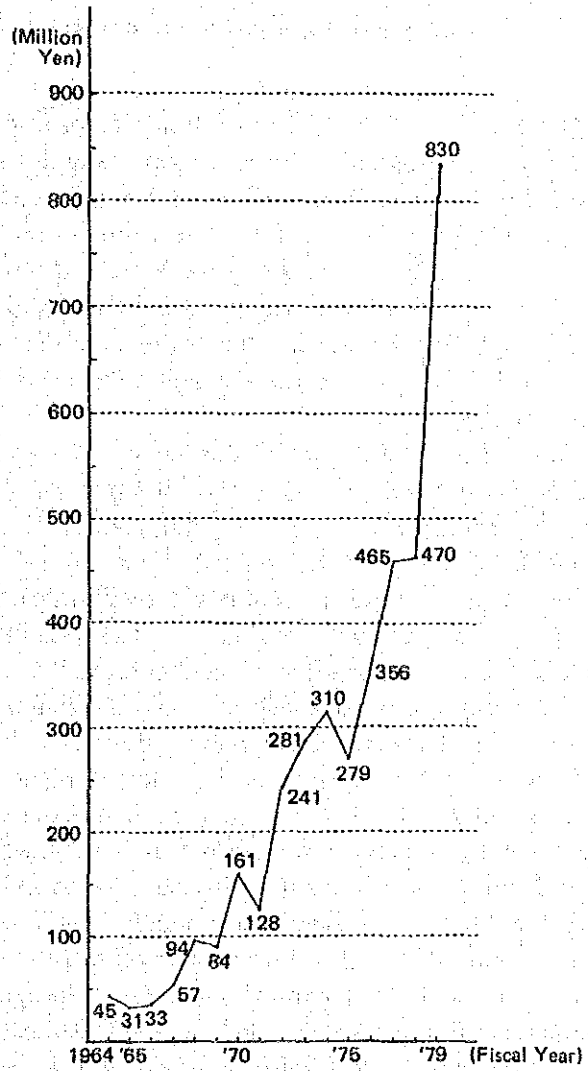


Fig. 2 Equipment Supply by Year



Section 4. Project-Type Technical Cooperation Programme

The form of technical cooperation includes "Acceptance of Participants", "Dispatch of Experts" and "Supply of Equipment and Materials" as described in Sections 1 through 3. The Agency provides these 3 forms of technical cooperation singly or in combination. The term "Project-type Technical Cooperation" as used by the Agency means integrated technical cooperation from planning to implementation, which combines these three forms and is carried out systematically and comprehensively in the country concerned.

Under the programme of this style, the Agency provides technical cooperation through the dispatch of survey teams, assignment of experts, supply of equipment and materials and acceptance of counterparts related to planning of a project, selection of project site, preliminary survey, preparations, implementation, and follow-up evaluation after completion of the project in order to insure effective cooperation.

The counterparts are accepted under the training programme for overseas participants described in Section 1.

In implementing such a project the recipient country provides land, buildings and management of the project as a rule. There has been increasing cases in recent years in which construction of facilities for the project is also covered by the grant aid provided by Japan. Through such organic combination of technical and financial cooperation, a greater effect can be expected.

The project-type technical cooperation programmes being implemented by the Agency include (1) Technical Cooperation Centre Programme, (2) Health and Medical Cooperation Pro-

gramme, (3) Agricultural, Forestry and Fishery Cooperation Programme and (4) Industrial Development Cooperation Programme.

(1) Technical Cooperation Centre Programme

1. Outline

Technical Cooperation Centres are designed to train and develop engineers and skilled workers whose services are essential for the socio-economic progress of developing countries and they can be broadly classified as follows:

- (1) Cooperation in the development of manpower resources aimed at upbringing engineers and skilled workers.
- (2) Cooperation in research and development and in experimental works involving tests for practical application.
- (3) Cooperation in development and improvement of production techniques.
- (4) Cooperation in vocational training.

However, some centres do not come under either of these categories but have multiple functions.

2. Performance in 1979

In 1979, this Programme covered a total of 23 centres, including the on-going 20 centres and the Bridge Engineering Training Centre (Burma); the Telecommunication Training Centre (Peru); which were added after their implementation surveys had been completed.

The Agency sent 250 experts to these centres and received 75 counterparts from them. The Agency also supplied training ma-

terials, vehicles, etc. worth 1,404 million yen.

In addition, preliminary survey teams were sent to study feasibility of cooperation with respect to the Telecommunications Training Institute (the Philippines); the Nigeria Vocational Training Institute (Nigeria); the Japan-Singapore Institute of Software Technology (Singapore); Technical Cooperation in the Establishment of the Sumatra Chemical Industry Training and Development Centre (Indonesia); Technical Cooperation for the Establishment of the Metal Coating Technology Centre (the Philippines). A total of 24 survey teams, including the above mentioned preliminary survey teams, were dispatched to the centres under cooperation for the purpose of providing guidance and consultation for project planning.

The after-care programme was carried out for the Japanese Singapore Training Centre (Singapore), the Institute for Skill Development in the Northeast of Thailand (Thailand), Centro de Entrenamiento Vocacional Presidente Carlos Antonio Lopez (Paraguay), the Transport Training Centre (the Philippines), and the Marine Engineering Training Project.

**Performance of Technical Cooperation Centre
Project in Fiscal 1979**

AREA COUNTRY	PROJECT	DURATION
ASIA Burma	The Bridge Engineering Training Centre Project	79. 7.12~83. 7.11
Malaysia	The Proposed Marine Engineering Training Project at the Ungku Omar Polytechnic, Ipoh (The Marine Engineering Training Project at the Ungku Omar Polytechnic)	73.12. 3~82. 6. 2

AREA COUNTRY	PROJECT	DURATION
Malaysia	MARA Vocational Training Institute, Johor Bharu	76. 9.14~81. 9.13
	Technical Cooperation on the Establishment of the Metal Industry	78. 8.11~82. 8.10
Pakistan	The Central Telecommunication Research Laboratories Project	79. 3.22~84. 3.12
Philippines	The Transport Training Centre	77. 4.12~83. 4.11
	Technical Cooperation on the Establishment of the Ceramic Research and Development Centre in the Republic of the Philippines	76. 7.16~82. 7.15
Singapore	The Japan-Singapore Training Centre	78. 6.29~83. 6.28
Sri Lanka	Technical Cooperation Project for the Fisheries Training Institute	74. 4.16~81. 4.15
Thailand	The Institute for Skill Development in the Northeast of Thailand Project	78.12.12~81.12.11
	The Expansion Project of King Mongkut's Institute of Technology	78.12.12~82.12.11
	Technical Cooperation on the Establishment of Furniture Industry Development Centre	76.11.25~81.11.24
MIDDLE EAST		
Egypt	The Arab Maritime Transport Academy	76.11. 6~82. 5. 5
	The Establishment of the Maintenance Vocational Training Centre	77. 1.30~82. 1.29
Iraq	Technical Cooperation on the Establishment of Iraq Electrical and Electronic Industries Training Centre	75. 4. 7~81. 7.31
Jordan	The Electronics Service Centre of the Royal Scientific Society Project	77.12.17~81.12.16
Tunisia	National Fishery Centre	78. 7. 1~81. 6.30
Saudi Arabia	The Establishment of the Riyadh Electronics Technical Institute	72. 6.12~
AFRICA		
Kenya	National Youth Service Advanced Training Centre	75. 5.26~80. 5.25

AREA COUNTRY	PROJECT	DURATION
LATIN AMERICA		
Brazil	The Senai Electrical and Electronic Vocational Training Centre Project	79. 3.29~84. 3.28
Paraguay	The Vocational Training Centre	78. 2.24~82. 2.23
Peru	Instituto Nacional de Investigación y Capacitación de Telecomunicaciones	79.11. 6~82.11. 5
	Fish Processing Centre	76.10.13~80.10.12

(2) Health and Medical Cooperation Programme

1. Outline

This programme is designed to offer medical cooperation to developing countries suffering from epidemic and endemic diseases in the forms of training medical students, prevention and research of tropical diseases and expansion as well as improvement of medical facilities. Concurrently, the programme emphasizes the cooperation for the welfare of the citizens in these countries, through the improvement of public hygiene and environment.

2. Performance in 1979

In 1979, cooperation was offered to a total of 32 projects: 177 experts were sent overseas and equipment, amounting to ¥1,461 million were supplied.

Meanwhile, the basic plan for cooperation was discussed and finalized in relation to the following projects: Peradenia Teaching Hospital of Medical Department in Sri Lanka, medical Department of the University of Zambia in Zambia, and the Promotion of Health in North Sumatra in Indonesia. On the other hand, the cooperation period expired in 1979 for Clinical Nutrition Research Centre in Korea, the Thai National Cancer Institute in Thailand, University of Ife and University of Nigeria in Nigeria, and Tuberculosis Control in Tanzania.

In 1979, preliminary survey teams were sent to the University of Zambia in Zambia, the Biologicals Production in Brazil, Development of Mental Health Services in Peru and Tribhuvan University—Medical Education in Nepal to study the possibility of future cooperation. Further, a total of 20 teams were dispatched to the projects now under cooperation for the purpose of providing guidance and consultation for project planning.

**Performance of Health and Medical Cooperation
Programme in Fiscal 1979**

AREA COUNTRY	PROJECT	DURATION
ASIA		
Bangladesh	Cardiovascular Disease Control	79. 2.22 ~ 84. 2.21
	Family Planning	76. 3.29 ~ 81. 3.36
Indonesia	Promotion of Health in North Sumatra	78. 4. 1 ~ 83. 3.31
	Centre for Biomedical Research	75. 4. 1 ~ 80. 3.31
	Nursing Education	78. 11. 3 ~ 83. 11. 2
	Family Planning	69. 10.14 ~ 83. 3.17
Korea	Centre for Cardiovascular	79. 3. 2 ~ 83. 3. 1
	Clinical Nutritioj Research Centre	75. 10. 1 ~ 79. 9.30
Nepal	Development of Basic Health Services in Western Region	73. 10.28 ~ 81. 2.23
Philippines	Schistosomiasis Research	74. 4. 1 ~ 81. 3.31
	Family Planning	74. 4. 1 ~ 81. 3.31
Sri Lanka	Peradenia Teaching Hospital of Medical Depart- ment	80. 2.29 ~ 84. 2.28
Thailand	Promotion of Provincial Health Services	76. 4. 1 ~ 81. 3.31
	Family Planning	74. 4. 1 ~ 84. 3.31
	The Thai National Cancer Institute	67. 4. 1 ~ 80. 3.31
MIDDLE EAST		
Afganistan	Tuberculosis Control	74. 4. 1 ~ 83. 3.31
Algeria	Centre Hospitalier et Universitaire, Universite des Sciences de la Technologie d'Oran	78. 4. 1 ~ 83. 3.31
Egypt	Nursing Education and Research	78. 4. 1 ~ 83. 3.31
AFRICA		
Ghana	Medical School, Ghana University	68. 6. 8 ~ 85. 3.11
Iran	Industrial Health and Nuclear Medicine	
Kenya	Communicable Disease Research and Control	79. 3. 6 ~ 84. 3. 5
Nigeria	University of Ife, Faculty of Medicine	72. 12. 8 ~ 79. 12. 7
	University of Nigeria, Faculty of Medicine	72. 12. 8 ~ 79. 12. 7
Tanzania	Tuberculosis Control	74. 4. 1 ~ 80. 3.31
Tunisia	Drug Quality Control	78. 4. 1 ~ 82. 3.31
Zambia	Faculty of Medicine, University of Zambia	80. 2.21 ~ 85. 2.20
LATIN AMERICA		
Argentina	Health Care System	70. 4. 1 ~ 82. 3.31
Bolivia	Gastroenterology	77. 4. 1 ~ 83. 3.31
Chile	Gastric Cancer Control	77. 4. 1 ~ 82. 3.31
Costa Rica	University of Costa Rica, Faculty of Medicine	73. 11. 1 ~ 81. 3.31
Ecuador	Research of Microbial Control	77. 4. 1 ~ 82. 3.31
Guatemala	Onchocerciasis Research and its Control	75. 10. 1 ~ 80. 9.30
Paraguay	Leprosy Control	

(3) Agricultural, Forestry and Fishery Development Cooperation Programme

1. Outline

The agricultural forestry and fishery development cooperation programme is intended to provide assistance in the agriculture, forestry and fisheries development of developing countries to contribute to increasing food production, improvement of farmers' income and living standards through the increase of productivity. The fields of cooperation cover rice cultivation, dry-field farming, livestock farming, forestry and fisheries. Forms of cooperation include: Provision of technical guidance at agricultural extension centres and model extension farms of specific crops, provide comprehensive guidance in the extension of advanced techniques in regional agricultural development centres to improve the infrastructure for increased production and promotion of farmers' organizations in each designated project area; Assistance in agricultural research and experiment for enhancing its research and development capacity of recipient countries.

2. Performance in 1979

In 1979, cooperation was extended to 32 agricultural and fisheries projects; a total of 286 experts were dispatched and agricultural vehicles experiment and test equipment, chemicals and agricultural machines equivalent to 1,990 million yen were supplied.

Discussions were held and agreement was reached to offer

cooperation on the following projects. Plant Protection Project (Indonesia), Remote Sensing Engineering Project (Indonesia), Researchment and Development Project in Kasetsart University (Thailand), The National Weed Science Research Institute Project (Thailand).

Preliminary survey teams were sent to the following countries to study Agricultural Development Project (Burma), Construction Guidance Service Centre Project (Indonesia), Bohol Agricultural Development Project (the Philippines), Agricultural Development Centre Project (Sri Lanka), Songkhla Coastal Aquaculture Centre Project (Thailand), Mesken Experimental Farm Project (Syria), Rice Mechanization Pilot Project (Egypt).

Furthermore, a total of 45 survey teams were sent to the projects now under cooperation for the purpose of providing guidance and consultation for planning.

**Performance of Agricultural and Forestry Cooperation
Programme in Fiscal 1979**

AREA COUNTRY	PROJECT	DURATION
ASIA		
Bangladesh	Central Extension Resources Development Institute Project	75. 3.14~83.10.12
	Citrus and Vegetable Research Project	78. 4.12~80.11. 2
Burma	Pig and Poultry Development Project	78. 4.12~82. 4.11
	Forest Development Project in Arakan Range	77.12. 2~82. 3.31
Indonesia	The Strengthening of Legumes in relation to Cropping System Research Project	70.10.23~83.10.22
	Sericultural Development Project in South Sulawesi	78. 2.28~83. 2.27

AREA COUNTRY	PROJECT	DURATION
ASIA		
Indonesia	Lampung Agricultural Development Project	72.11.14~80.11.13
	Project on South Sulawesi Regional Agricultural Development Planning	76.12.25~81.12.23
	Agricultural Products Processing Pilot Plant Project	77.10.14~82.10.13
	Middle Level Agricultural Technician Training Project	79. 3.29~84. 3.28
	Animal Health Improvement Programme	77. 7. 7~82. 7. 6
	Mountain Logging Practice Project in Java	78. 4.20~81. 4.19
	Trial Plantation Project in Benakat, South Sumatra	79. 4.12~84. 4.11
Korea	Mariculture Research and Development Project	78. 8.30~82. 3.31
	Japan-Korea Joint Research Programme on Agriculture	74. 6. 7~82. 3.31
Malaysia	Water Management Training Project	77. 9. 3~82. 9. 2
Nepal	Janakpur Zone Agricultural Development Project	74.11. 7~82.11. 6
Philippines	Cagayan Integrated Agricultural Development Project	76. 2.27~82. 2.21
	Afforestation Project of the Pantabangan Area	76. 6.18~81. 9.30
Thailand	Irrigated Agriculture Development Project	77. 4. 8~82. 4. 7
	Sericultural Development Project	78. 3.13~80. 3.12
	Animal Health Improvement Programme	77. 3. 2~82. 3. 1
MIDDLE EAST		
Afghanistan	Rice Development Project	79. 3.14~84. 3.13
Iran	Zabol Area Agriculture and Natural Resources Research Centre Project	78. 3.13~80. 3.12
AFRICA		
Madagascar	Livestock Development Project in Northern Madagascar	77.11.11~83.11.10
Tanzania	Kilimanjaro Agricultural Development Centre Project	78. 9.13~82. 9.12
LATIN AMERICA		
Brazil	Japan-Brazil Agricultural Research Project	77. 9.30~82. 9.29
	Agricultural Development Project in the Ribeira River Basin	75. 3.10~
	Forestry Research Project in Sao Paulo	79. 4. 1~81. 3.31

AREA COUNTRY	PROJECT	DURATION
Chile	Aquaculture Project	79.10. 2~84.10. 1
Paraguay	Agriculture Development Project	79. 3.16~84. 3.15
	Forestry Development Project in the Southern Paraguay	79. 3.16~84. 3.15
Uruguay	Japan-Uruguay Vegetable Research Cooperation Project	78. 7.19~81. 7.18
OCEANIA Micronesia	Fisheries Development Project of the Trust Territory of the Pacific Islands	78. 4. 1~81. 3.31

(4) Industrial Development Cooperation Programme

1. Outline

The Industrial Development Cooperation Programme is aimed at the effective utilization of locally available natural and human resources in developing countries for the development, promotion and growth of various mining and manufacturing industries to expand employment opportunity.

In order to promote local industries in developing countries, not only the transfer of manufacturing technology but also the transfer of production-related technology such as production control, business management, distribution and marketing techniques and development of human resources, as well as the enhancement of research and development capability are equally important. For this reason, the programme is being implemented with this point in consideration.

The Industrial Development Cooperation Programme was initiated in 1978 through reorganization of the former Primary Commodities Development Cooperation Programme.

2. Performance in 1979

In 1979, cooperation was offered to a total of 10 projects including a new project of the Technical Development of Mineral Processing and Metallurgy (Mexico). For these projects, equipment and materials worth 361 million yen and a total of 78 experts were dispatched to various locations.

Besides, preliminary survey teams were sent to provide Technical Cooperation on the Development of Cottage Industry

(Nepal), Technical Cooperation for Appropriate Technology Research and Development Centre Project (Sri Lanka), Technical Cooperation on the Small and Medium Scale Industry (Brazil), Technical Cooperation on Whole Sale Marketing System Improvement Plan (Paraguay). Furthermore, Project Selection and Confirmation Survey teams were sent to Pakistan and Nepal. Another 7 teams were dispatched to various projects under cooperation for the purpose of providing guidance and others.

**Performance of Industrial Development Cooperation
Programme in Fiscal 1979**

AREA COUNTRY	PROJECT	DURATION
ASIA		
Indonesia	Technical Cooperation on the Development of Building Materials in the Republic of Indonesia	78. 7.19 ~ 82. 7.18
Philippines	Technical Cooperation on the Development for Particle Board in the Republic of the Philippines	77. 3.18 ~ 82. 1.31
Thailand	Technical Cooperation on the Development of Natural Rubber Processing in the Kingdom of Thailand	77. 4. 1 ~ 82. 3.31
	Technical Cooperation Project on Maize Development	76. 9.17 ~ 82. 9.16
AFRICA		
Tanzania	Technical Cooperation for Kilimanjaro Industrial Development Centre Project in the United Republic of Tanzania	78. 9.13 ~ 82. 9.12
LATIN AMERICA		
Bolivia	Technical Cooperation on the Recovery of Valuable Minerals from Complex Sulphide Ores in the Republic of Bolivia	77. 2.21 ~ 81. 2.20
Brazil	Technical Cooperation on the Development of Mineral Resources in the Federative Republic of Brazil	78. 4. 1 ~ 81. 3.31
Chile	Technical Cooperation on the Development of Copper Smelting and Refining in the Republic of Chile	76.11.29 ~ 81. 3.16
Mexico	Technical Cooperation on the Technological Development of Mineral Processing and Metallurgy in the United Mexican States	79.12. 5 ~ 83.12. 4
Peru	Technical Cooperation on Mine Safety	77.10.28 ~ 81.12.31

Section 5. Development Survey Programme

1. Outline

The term "development survey programme" denotes consultancy services offered through dispatch of survey teams composed of experts for field surveys and home office work for development projects of public nature in developing countries.

Promotion of comprehensive regional development projects and other development projects in the public sector bears closely upon the socio-economic progress of developing countries, and it has often been the case that these countries lack the sufficient number of experts with high level of technology and wide experience to make the necessary judgement in the planning of such projects and capable personnel who, under the instruction of experts, can coordinate and organize the project planning. There are also many cases where the system, under which the engineers responsible for projects planning work in unison, is inadequate. Accordingly, the Japanese government is frequently requested by these countries to cooperate in the planning of such comprehensive regional development projects or individual projects. To comply with such requests, the Agency conducts development surveys as part of its technical cooperation. By phase, the development surveys can be broadly classified as follows:

- (1) Surveys for the Preparation of Master Plan, etc.
- (2) Surveys for the Preparation of Drawing Maps and Marine Charts
- (3) Preliminary Surveys

- (4) Feasibility Studies
- (5) Surveys Directly Related to Financial Cooperation
- (6) Surveys Directly Related to Grant-Aid Programme
- (7) Surveys for Detailed Designs
- (8) Basic Surveys for Resources Development Cooperation
- (9) Surveys for Aftercare Services

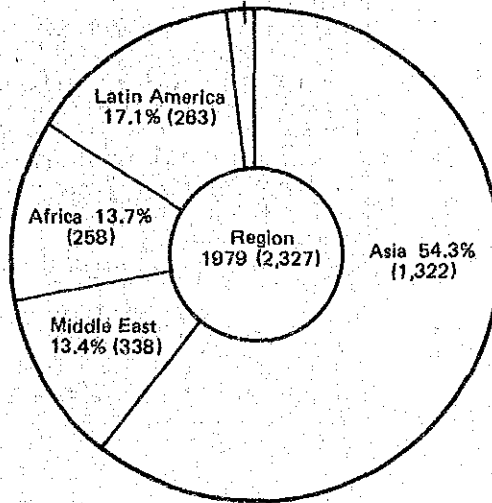
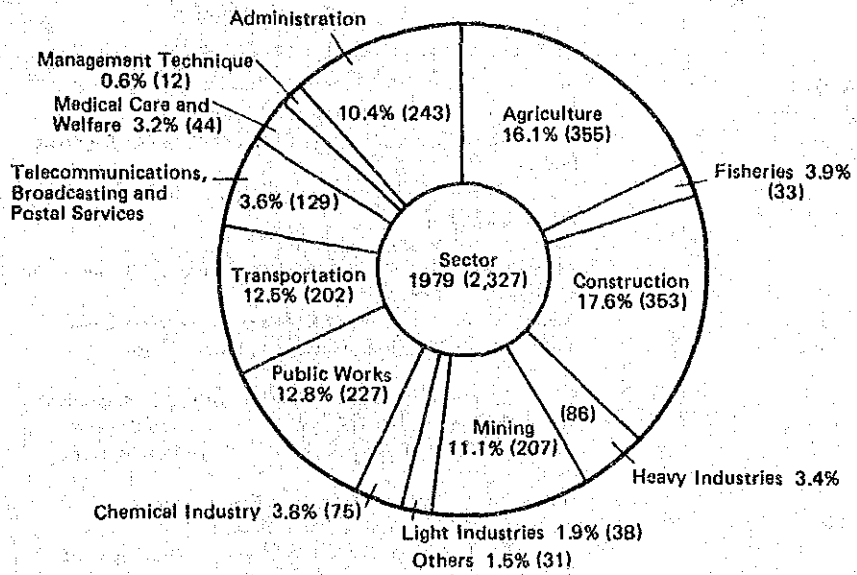
2. Performance in 1979

In 1979, development surveys were conducted for 253 projects. A total of 253 survey teams are dispatched and 2,327 experts were assigned overseas. By regions, 1,322 (54.3%) experts were sent to Asia; 363 (13.5%) to Latin America; 338 (11.7%) to Middle East; 258 (11.3%) to Africa; 46 (1.6%) to others. By country, 335 (17.3%) experts were sent to Indonesia; 237 (9.8%) to Thailand; 244 (9.7%) to the Philippines; 152 (5.5%) to Malaysia; 103 (4.9%) to Egypt. By sector, 375 (16.1%) experts were for agriculture; 242 (10.4%) for Economic Planning and Administrative Field:

The following table shows the projects for which development survey teams were dispatched.

Survey teams and experts dispatched in fiscal 1979 under the project-type technical cooperation programmes described in Section 4, including the development survey programme, are shown by country and sector in the appendix.

Number of Survey Team Members Dispatched by Sector and Region (1979)



**Performance of Development Survey
Programme in Fiscal 1979**

AREA COUNTRY	NAME OF SURVEY	
ASIA		
Bangladesh	Survey for Motorization Project of Fishing Boats	6
	Survey for the Bangladesh Agriculture College Development Project	3
	Survey for the Construction of Bheramana-Barisal Transmission Line	4
	Survey for Small Scale Industries	3
	Survey for the Construction Project of Automobile Repair and Maintenance Workshop	6
Burma	Survey for the Extension of Kaptai Hydropower Station	4
	Survey for the Research Institute on Pharmaceutical Technology	6
	Survey for the Rangoon International Airport Development	3, 4
	Survey for the THUWANA Bridge Construction Project	6
	Survey for the Irrawaddy Basin Agriculture Development Project	1
China	Survey for the South Narwin Irrigation Project	4
	Survey for Railway Modernization Project	4
	Survey for Wuqionqzi Hydroelectric Power Development Project	3
Indonesia	Survey for the Low Cost Housing Project	1, 4
	Survey for Medan Urban Transportation Project	1
	Survey for the Removal of Sunken Vessels	4
	Survey for Improvement of Telephone Network in the city of Jakarta	4
	Survey for the Expansion Project of the Balikpapan Port	4
	Survey for Mt. Merapi Sabo Project	1
	Survey for the Central South Sulawesi Water Resources Development Project	1
	Survey for the Southern Coast Development Project in East Java	4
	Survey for the Lower JENEBERANG River Flood Control Project	4
	Survey for telecommunication Network in Developing Areas Surrounding MEDAN and UJUNG PANDANG	3

AREA COUNTRY	NAME OF SURVEY	
ASIA		
Indonesia	Survey for the Sorong Port Project	3
	Survey for the Jakarta Harbour Road	3
	Survey for Sumatra Chemical Training and Development Centre	6
	Survey for the Medium Urgent River Improvement Project	3, 4, 5
	Survey for Cooperative Mineral Exploration	8
	Survey for the Reinforcement/Extension Plan of P.T. IKI Makaosar Shipyard	1
	Survey for the Rural Water Supply Project in Sulawesi	4, 5
	Survey for Rural Roads Development Study	5
	Survey for the Lanemme Agriculture Development Project	3
	Survey for Development of Pelabuhan Ratu Fishing Port	3
	Survey for Water Resources Development for the Upper Komerring River Basin Agriculture Development	4
	Survey for Upper Musi Watershed in South Sumatra	4
	Survey for Construction Guidance Service Centre in Irrigation/Drainage Engineering	6
	Survey for the Maung Hydro-electric Power Development	4
	Survey for the Rehabilitation of the Ombiline Coal Mine	4
	Survey for the Energy Supply-Demand Data Bank System	4
	Survey for the North Sumatra Transmission Line Project	4
	Survey for the Petroleum Exploration and Production Data Bank System	4
	Survey for the Industry-Standardization	3
	Survey for the Development of Small Scale Industries	3
	Survey for the Geothermal Development Project	3
Korea	Survey for the Long-term Multipurpose Dam Schemes	4
Malaysia	Survey for National Water Resources Development	1
	Survey for the Urban Transport Study in Greater Metropolitan Area of Georgetown, Butterworth and Bukit Mertajam	4
	Survey for the Reclamation Project of Ex-Mining Land	4
	Survey for the Belurn/Long Lama/Limbang Truck Road Construction Project in Sarawak	4
	Survey for Kelantan Port Development Project	3, 4
	Survey for Flood Forecasting and Warning System in Sabah and Sarawak	3, 4
	Survey for the Sewerage and Industrial Waste Disposal	

AREA COUNTRY	NAME OF SURVEY	
ASIA		
Malaysia	Project in Alor Setar and its Urban Environs	1, 4
	Survey for Bintulu Deepwater Port Project	4
	Survey for Trengganu Tengah Swamp Area Agriculture Development Project	4
	Survey for Lebir Hydro-electric Power Development Project	4
	Survey for the ASBAN Urea Project	4
Maldives	Survey for Basic Design of School Construction Project	6
Nepal	Survey for the Establishment of Medium Wave Radio Broadcasting Network	6
Pakistan	Survey for Construction Project of a "Mini Port" in Gwadar	4
	Survey for Coastal Fishing Development Project	6
	Survey for the Lakkla Coal Mining and Power Station Project	4
	Survey for Special Steel Mill	4
Philippines	Survey for the Hospital Development Project	4, 5
	Survey for the Integrated Research Training Centre	6
	Survey for the Manila-Bataan Coastal Road and its Related (C5, C6) Roads Project	4
	Survey for the Davao Transportation Plan	4
	Survey for Mayon Volcano Sabo and Flood Control	1, 4
	Survey for the Pampaga Delta Development	3
	Survey for the Rural Telecommunication Project	3
	Survey for the Training Research Vessel	6
	Survey for Bohol Integrated Area Development (BIAD) Plan	1
	Survey for the Ilocos Norte Irrigation Project	4
	Survey for Matuno River Agricultural Development Project	3
	Survey for the Construction Plan of Integrated Steel Mill	4
	Survey for the Construction of Phosphate Fertilizer Plant	4
	Survey for the Agos River Hydro-electric Project	4
	Survey for Upper Cagayan River Hydro-electric Power Project	4
	Survey for the EHV Transmission System Development Project in the Luzon Island	3
	Survey for Electric Power Transmission Network Extension	

AREA COUNTRY	NAME OF SURVEY	
ASIA		
Philippines	and Interconnection in the Vigas Islands	4
	Survey for Cooperation Mineral Exploration	8
Sri Lanka	Survey for the Development Project of Port of Colombo	4
	Survey for Television Broadcasting Network Construction Project	6
	Survey for Project of Stationery Factory Construction	6
	Survey for Moragahakanda Agriculture Development Project	4
	Survey for the Fisheries Development Programme	6
Thailand	Survey for the Bangkok Sewerage and Solid Waste Disposal System Study	1
	Survey for Road Construction Project between Nongbua and Ban Lan Chi Bon	4
	Survey for the Bangkok Urban Truck Terminals Construction Project	4
	Survey for Bangkok Sub-Urban Transportation	1
	Survey for Bangkok Telephone Network Project	7
	Survey for the Cooperation on the Youth Welfare Centre Project	6
	Survey for the Establishment for Hospital	6
	Survey for Water Supply Project of Cambodian Refugees Camp	6
	Survey for Phetchaburi-Kaeng Krachan Irrigation Agriculture development Project	3
	Survey for Agricultural Cooperation Promotion Project	3
	Survey for the Master Plan on the Greater Mae Klong River Basin	1
	Survey for the Kamphang-Sean Irrigated Agricultural Development Project of the Greater Mae Kong River	4
	Survey for Songhla Coastal Agriculture Centre	6
	Survey for Mae Wang-Kew Lom Irrigation Agricultural Development Project	4
	Survey for the ASEAN Bock Salt-soda Ash Project	3
	Survey for the Integrated Steel Mill Project	4
	Survey for the Upper Quae Yai River Hydro-electric Power Development Project	4
	Survey for Pai and Chaem River Hydro-electric Power Development	3
	Survey for the Samuthsakorn Industrial Estate	4

AREA COUNTRY	NAME OF SURVEY	
ASIA		
Philippines, Thailand, Indonesia & Singapore	Survey for Mining, Industry and Power Development	9
MIDDLE EAST		
Egypt	Survey for Study of Technical Cooperation to the Suez Canal Authority	4
	Survey for Modernization Project of Egyptian Railways	4
	Survey for the Japanese and Egyptian Project of Cairo University Pediatric Hospital	6
	Survey for the Establishment of Fishery Management Centre	6
	Survey for Phase II Expansion Project of Suez Canal	4
	Survey for Integrated Regional Development Plan of the High Dam Lake Area	1
	Survey for South Hosainia Valley Agricultural Development Project	3
	Survey for Rehabilitation Plan of the Blooming Mill, Helwas Works, Eisco	4
Iran	Survey for the Tehran Urban Transportation Plan	3
Iraq	Survey for Broadcasting Network Development Project	3
	Survey for Kahlaa Rice Farm Project	4
Jordan	Survey for Northern Jordan Integrated Development Plan	1
Morocco	Survey for Cooperative Mineral Exploration	8
Oman	Survey for Oil Refinery Construction Plan in Sultanate	4
	Survey for Mineral Exploration Planning Project	4
Saudi Arabia	Survey for the Saline Water Conversion Scheme	3
Sudan	Survey for Gasaba Agriculture Development Project	6
Tunisia	Survey for the Kasseb Pumped-storage Power Development Project	4
	Survey for Thermal Power Development	4
Turkey	Survey for the Zonguldak Off-shore Coal Mine Development Project	3
	Survey for Cooperative Mineral Exploration in Morocco and Turkey	8
North Yemen	Survey for Rural Water Supply Project	4
Yemen	Survey for Hajjah Province Integrated Rural Development	6
U.A.E.	Survey for Water Resources Development Project	4
	Survey for Orchard Construction Project	3
AFRICA		
Botswana	Survey for Cooperative Mineral Exploration Project	8

AREA COUNTRY	NAME OF SURVEY	
AFRICA		
Cabo Verde	Survey for Fisheries Development Project	6
Gabon	Survey for Coast Fisheries Resource	4
Guinea	Survey for Mapping Project	2
	Survey for Kankan Agriculture Development Project	4
Ivory Coast	Survey for the Regional Maritime Academy	6
Kanya	Survey for Topographic Mapping Project of East Kenya	2
	Survey for Water Supply Augmentation Project in-and-around Mombasa	4
	Survey for Rift Valley Geothermal Development Project	4
Liberia	Survey for the construction of the Gabamba-Mendicoma Road Project	4
Madagascar	Survey for the Road Improvement Project between Soamierana-Ivongc and Maroanstera on the National Route 5	4
	Survey for Water Supply Project in Southern Part of Madagascar	4
Mali	Survey for Subteranean Water	4
	Survey for Agricultural Development Project	3
Mauritius	Survey for Link Road Construction Project	7
Nigeria	Survey for the Construction Project of the New Ocean Terminal	4
Rwanda	Survey for the Satellite Communication System Project	6
Senegal	Survey for the Deep Well Equipment Improvement	6
Sierra Leone	Survey for the Road Construction Project between Makeni and Kamakwie	4
Swaziland	Survey for the New International Airport Construction Project in the Kingdom of Swaziland	3, 4
	Survey for the Coal Mine Development Project	3
Tanzania	Survey for Basic Design of Kilimanjoro Development	6
	Survey for Selender Bridge Extension Project	6, 7
	Survey for Transmission and Distribution Network in Kilimanjoro Region	4
	Survey for the Proposed MAHALE Mountains National Park in Kigoma Region	4
	Survey for the Lower Moshi Agricultural Development Project	4
Ivory Coast & Cameroon	Survey for Economic and Technical Cooperation in African Countries	3
Uganda & Tanzania	Survey for Economic and Technical Cooperation in Uganda	

AREA COUNTRY	NAME OF SURVEY	
AFRICA		
Uganda & Tanzania	and Tanzania	3
Togo & Niger	Survey for Water Supply Projects in Togo and Niger	6
Zambia & Swaziland	Survey for Technical Cooperation Identification for Mining, Industry and Power Development	3
LATIN AMERICA		
Argentina	Survey for the Deep Water Port Construction Project at Punta Medanos	4
	Survey for Cooperative Mineral Exploration	8
	Survey for Cooperative Mineral Exploration	3
Bolivia	Survey for the Rehabilitation Planning of Bolivian National Railway	3, 4
	Survey for Land Use Mapping in Chapare Area	3
	Survey for Cooperative Mineral Exploration in Bolivia and Guatemala	8
Brazil	Survey for Fireman Training Centre	3
Colombia	Survey for the Bogota-Buenaventura Road Project	4
	Survey for the Integrated Transport Study for the Orinoco River Area	3
	Survey for Fisheries Resources Development	4
	Survey for the Development of Coastal Fisheries in Tolu and the Amplification of the Fishing Training Centre	6
	Survey for the Julumito Hydro-electric Power Development	4
	Survey for Mineral Exploration Planning Project	3
Costa Rica	Survey for Development of Caldera Port	5
Chile	Survey for the Puchurdiza Geothermal Development Project	4
	Survey for Mineral Exploration Planning Project	3
	Survey for Cooperative Mineral Exploration	4
Dominican Rep.	Survey for AGLIPO Agricultural Development Project	4
	Survey for the Modernization of Electric Distribution System in the City of Santo Domingo	3
Guatemala	Survey for Cooperation Mineral Exploration	8
Honduras	Survey for New Tegucigalpa Airport Construction Project	4
	Survey for Forest Resource Development	3
	Survey for the Fisheries Resources Development	3
	Survey for Cooperative Mineral Exploration	8
Mexico	Survey for the Suburban Railway Planning	9
	Survey for the Pyrite Development Project at the Guellero	3
	Survey for Cooperative Mineral Exploration in Mexico	

AREA COUNTRY	NAME OF SURVEY	
LATIN AMERICA		
Mexico	and Peru Survey for Cooperative Mineral Exploration in Guatemala and Mexico	8
Panama	Survey for Topographic Mapping Project of the Caribbean Coastal Area, Panama	2
Paraguay	Survey for New Stroessner Airport Construction Project	4
	Survey for Agriculture Development Project on Lake Ypoa and Zone of Influence	3
	Survey for forest Inventory in Northeast Region of Paraguay	3
	Survey for South Paraguay Integrated Agricultural and Forestry Development Centre	6
	Survey for the Development Programme of Textile Industries and Cotton Fiber	3
Peru	Survey for the Community Mineral Health Centre	6
	Survey for Poeches and Curumuy Hydro-electric Power Development Project	4
	Survey for Marucona Sintering Project	4
	Survey for Cooperative Mineral Exploration	8
Venezuela	Survey for Cargo Handling Training Equipment	4
	Survey for the Up-grading Project of Orinoco Heavy Oil	4
Ecuador & Paraguay	Survey for the Urban Transportation Plan in Ecuador and Paraguay	3
Guatemala, Costa Rica & Ecuador	Survey for Economic and Technical Cooperation in Central and South American Countries	3
Dominica, Uruguay & Ecuador	Survey for Mining, Industry and Power Development	3
OCEANIA		
Fijui	Survey for Fisheries Development Programme	6
	Survey for Forest Development in Vitilevu	3
Solomon	Survey for the Telecommunication Trunk Network Construction Project	4
	Survey for the Lake Te Nggano Bauxite Development Project	6
Tonga	Survey for Elementary School	6
Fiji & Gilbert	Survey for Economic and Technical Cooperation in the Oceanic Countries	3

Note: The surveys are classified as follows and indicated by the numbers designated to respective items.

1. Surveys for the purpose of preparing master plan, etc.
2. Surveys for the purpose of drawing maps and marine charts
3. Preliminary surveys
4. Feasibility studies of projects
5. Surveys directly related to financial cooperation
6. Surveys directly related to grant-aid cooperation
7. Surveys for detailed designs
8. Basic survey for resources development cooperation
9. Surveys for aftercare services

Chapter 2.

Grant-Aid Cooperation Promotion Programme

1. Outline

The programme is aimed at facilitating Japan's grant-aid cooperation to developing countries in accordance with treaties and international agreements.

The grant-aid cooperation is one form of extending financial assistance without repaying obligation. The cooperation of this category includes general grant aid, fisheries grant aid, food assistance, assistance for increased food production, etc. Of these, the Agency only deals with general grant aid and fisheries grant aid, which are closely related to technical cooperation.

The general grant aid is to offer funds needed to improve or expand the related facilities such as technical cooperation centres, hospitals, schools, research institutes and others, while the fisheries assistance is intended to help improve or expand fisheries training facilities including training boats.

The facilities closely related to technical cooperation include vocational training centres and others which are needed for the realization of technical cooperation, facilities to be improved according to the basic design made by Japanese survey teams and facilities used for technology transfer from Japan through dispatch of Japanese experts overseas and acceptance of overseas participants.

Major activities under the Agency's cooperation promotion programme are: (1) When contracts are concluded between a

developing country and private enterprises, JICA offers liaison consultations and good offices in this regard, study of specifications of facilities and equipment to be offered from Japan and examination of the contents of contracts; (2) liaison and consultation and arrangements with local or Japanese banks on banking agreements, examination of the contents of contracts, and studies and surveys (on-the-spot surveys and investigation of the progress of activities) so as to facilitate the grant-aid cooperation.

2. Performance in 1979

The agency provided grant-aid cooperation for 68 overseas projects, including the establishment of the Institute for Tropical Medicine in the Philippines, the establishment of the Central Workshop for the Repair and Maintenance of Vehicles of Transport in Bangladesh, the establishment of the Electronics Service and Training Centre of the Royal Scientific Society in Jordan.

The projects carried out during fiscal 1979 are listed as follows.

Performance of Capital Grant Aid in Fiscal 1979

AREA COUNTRY	PROJECT
ASIA Bangladesh	Project for the Completion of Educational Broadcasting Facilities Project for the Expansion of the Bangladesh Agricultural Institute Fisheries Research Project Project for the Expansion of the Capacity for Food Grain Storage Project for Strengthening the Functions of the Institute of Cardiovascular Disease

AREA COUNTRY	PROJECT
ASIA	
Bangladesh	Establishment of the Central Workshop for the Repair and Maintenance of Vehicles of Transport
Burma	Project for Mechanization of Fishing Boats Establishment of the Biomedical Research Centre Strengthening of the Functions of the Regional Colleges Project for Improvement of Educational Training in the Technical High Schools Establishment of the Metallurgical Research and Development Centre Project for the Completion of Medical Facilities in Rangoon General Hospital and Mandalay General Hospital
India	Fisheries Survey and Training Projects
Indonesia	Establishment of the Ujung Pandang Rating School Fisheries Survey and Exploratory Project Tropical Rain Forest Reforestation Study Centre Construction of Nurse Education
Nepal	Project for Construction of Medical Facilities in the Western Region Project for the Improvement of the Transportation Capacity in the Kingdom of Nepal
Philippines	Establishment of the Training Centre for Forest Conservation in Pentabangan Establishment of the Institute for Tropical Medicine Expanded Training and Research Program in Marine Fisheries
Sri Lanka	Establishment of Teaching Hospital—Peradeniya Establishment of a Television Broadcasting Station Fisheries Development Programme
Thailand	Development Project of Kasetsart University Establishment of the Youth Welfare Centre Establishment of the Songkhla Coastal Agriculture Centre
MIDDLE EAST	
Afghanistan	Establishment of the Rice Development Centre
Egypt	Rift Valley Fever Control Project
Jordan	Establishment of the Electronics Service and Training Centre
Pakistan	Programme for Urban Malaria Eradication Coastal Fisheries Development Project

AREA COUNTRY	PROJECT
LATIN AMERICA	
Bolivia	Instalacion des Centro de Investigacion para Enfermedades Gastro- enterologicas en Sucre
Chile	Investigacion de Pesqueria
Colombia	Desenvolrimiento de Pesqueria
Ecuador	Investigacion y Entrenamiento Pesqueros
Guatemala	Reconstruccion y Mejoramiento de Los Sistemas de Agua Potable en el Interior del Pais
Guyana	Fisheries Development
Paraguay	Instalation del Centro de Entrenameinto Vocacional en Asuncion
Peru	Instalacion des Centro de Transformacion Pesquera
OCEANIA	
Solomon	Fisheries Development Project Inter-Island Fleet Expansion Project
West Samoa	Fisheries Development Project

Chapter 3.

Japan Overseas Cooperation Volunteers Programme

1. Outline

The Japan Overseas Cooperation Volunteers (JOCV) Programme is designed to promote and assist the cooperation extended by Japanese young people for the socio-economic progress of developing countries.

The young volunteers participating in this programme undergo training to acquire techniques and skills required by developing countries and are charged with a mission to cooperate in their nation-building.

The characteristics of the JOCV Programme are that these Japanese young people are sent in order to deepen mutual understanding through personal contacts with the people of developing countries and cooperate with local people in the nation-building that these countries seek through economic and social development.

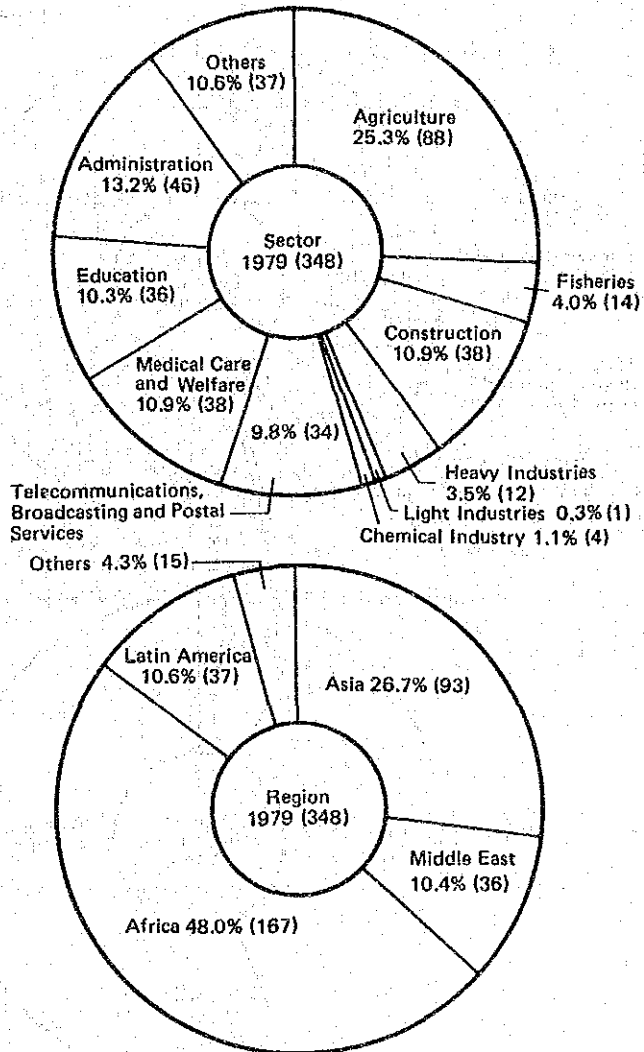
Based on the requests made by developing countries, the Agency, in cooperation with prefectural governments and private organizations, publicly invites volunteers twice a year, selects them and gives to the successful candidates a four-month pre-assignment training. After this, the volunteers are sent to developing countries for assignment.

The sector covered by this programme has a wide range and includes agriculture, forestry and fisheries, civil engineering and construction, health and hygiene, mining and manufacturing and even education, sports and other fields.

2. Performance in 1979

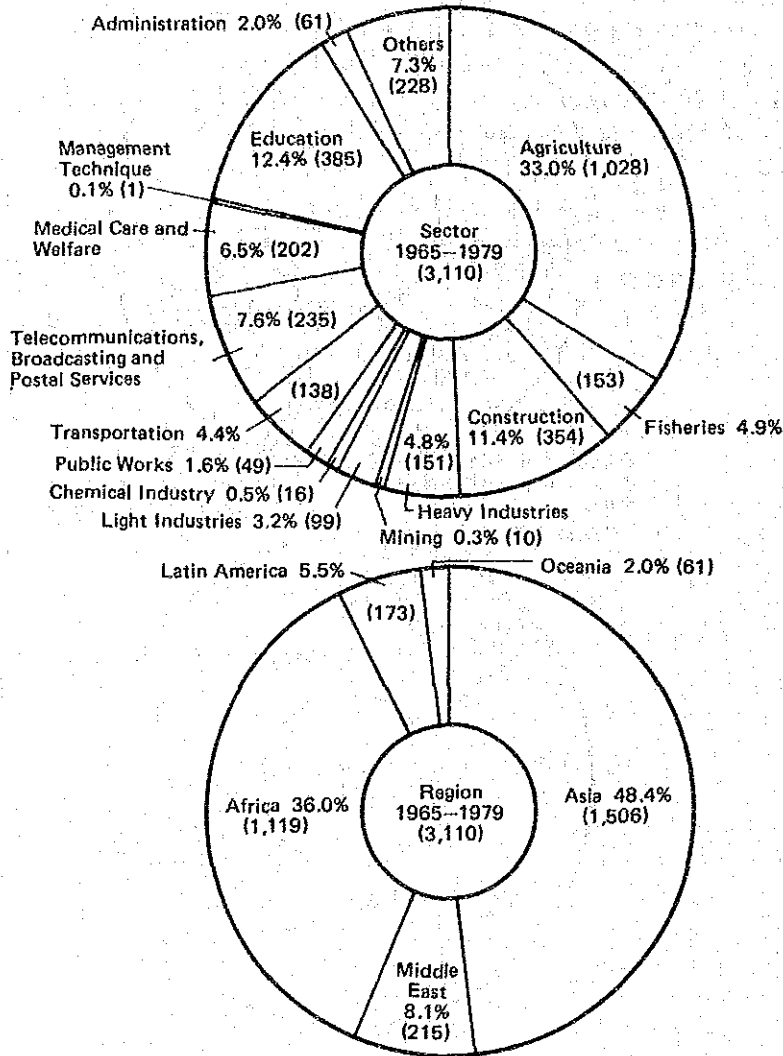
There were 348 volunteers sent overseas in 1979, bringing to 3,110 the cumulative total since the JCCV programme was initiated in 1965. Of the total figure for 1979, 167 (48.0%), the largest number, went to Africa. This was followed by 93 (26.7%) to Asia, 37 (10.6%) to Latin America, 36 (10.4%) to Middle East, and 15 (4.3%) to other regions. By country, the largest number, 53 went to Malawi, followed by 44 to Kenya and 34 to the Philippines. In the distribution by sector, the largest ratios were accounted for by agriculture, with 88 (25.3%), followed by administration with 46 (13.2%).

Number of Japan Overseas Cooperation Volunteers Dispatched by Sector and Region (1979) Unit: Person

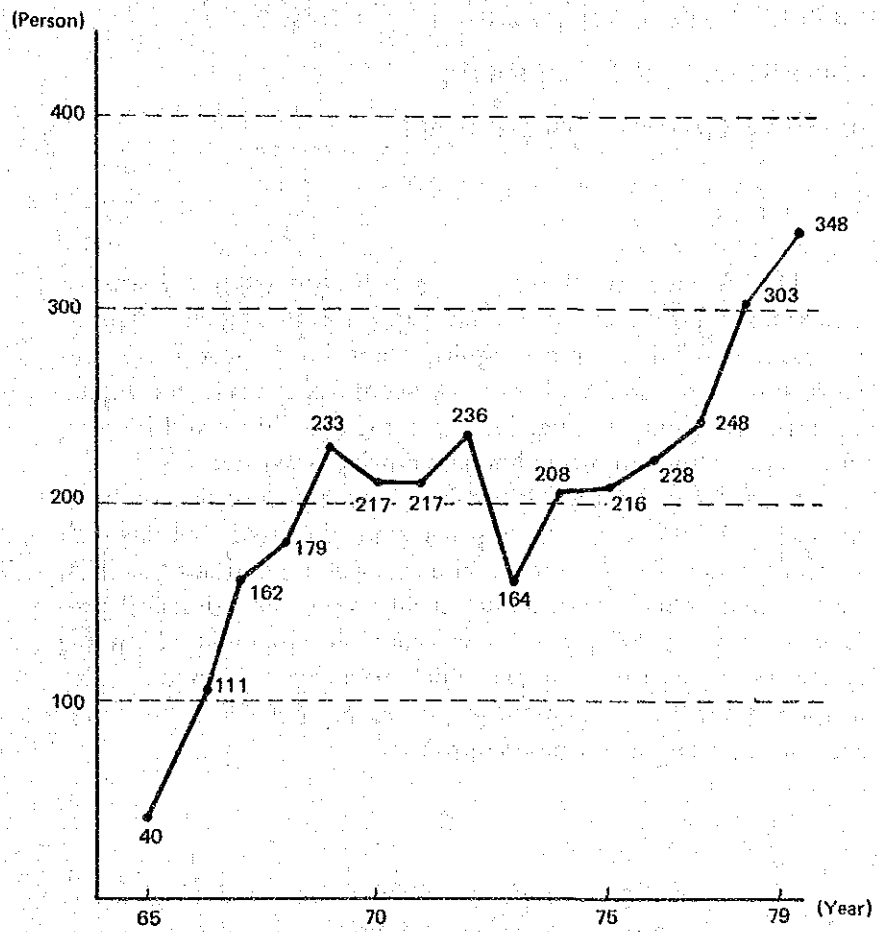


**Total Number of Japan Overseas Cooperation Volunteers
Dispatched by Sector and Region (1965-1979)**

Unit: Person



Number of Japan Overseas Cooperation Volunteers Dispatched by Year



Chapter 4.

Development Cooperation Programme (Investment and Financing of Development Programme)

1. Outline

The Agency is offering long-term, low-interest loans to Japanese corporations (including foreign corporations financed by Japanese firms) which require funds for improvement and expansion of facilities and for experimental projects in developing countries to promote social development, agricultural and forestry development and mining and manufacturing activities.

Such funds are used in projects which do not pay on commercial basis and risky, e.g. improvement of related facilities such as roads to factories, hospitals, schools, port and harbour facilities, bridges and other infrastructure facilities and experimental projects such as cultivation of new crops, development of mining resources and mining activities which are risky. The Agency also supplies a part of its funds to private enterprises which are carrying out important experimental projects.

2. Performance in 1979

During the fiscal 1979, the Agency consented to give 840 million yen for three projects for expansion of the related facilities and 4,843 million yen for five experimental projects. The loans totaled 5,684 million yen for 8 projects. On the contract basis, loans for the expansion of facilities reached 1,114 million yen and

those for experimental projects 4,690 million yen, totaling 5,804 million yen. Basic surveys and technical guidances conducted during fiscal 1979 were as follows:

Basic surveys

Basic surveys related to facilities 6

Basic surveys related to experimental projects 5

Technical guidance

Dispatch of experts 10 persons in 6 cases

Acceptance and training of
overseas participants 23 persons in 7 cases

Chapter 5.

Emigration Service

1. Outline

Emigration of Japanese people dates back to 1868 when about 150 persons went to Hawaii. Since then, the number of emigrants to North and Latin America increased steadily. Emigration was suspended after the outbreak of World War II but was resumed after the war, and the first postwar emigrants left Japan for Brazil in 1952.

Japanese emigrants' activities in their new countries have diversified from agricultural to industrial fields. In the future, emigration connected with international cooperation and technical assistance projects may be expected.

The agency is carrying out the following activities to further promote the emigration of Japanese people:

- (1) Diffusion of information and guidance on overseas emigration.
- (2) Various types of training and study meeting for those wishing to emigrate.
- (3) Improvement of living environment in the countries where the Japanese are emigrating.
- (4) Guidance and counselling to the prospective emigrants in such fields as agricultural management and technical services and financial aids.

2. Performance in 1979

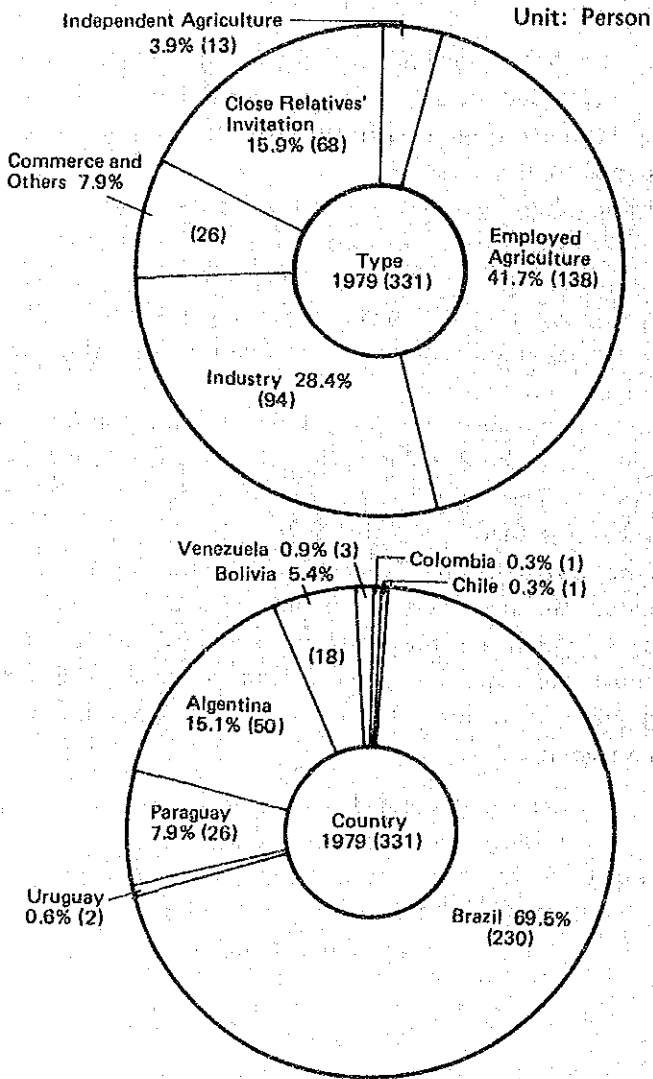
During fiscal 1979, 331 Japanese emigrated to eight Latin America countries—Brazil, Paraguay, Argentine, Bolivia, Venezuela and Colombia. Qualification certificates for the emigration to Canada were issued to 213 persons.

Consultations about overseas emigration totaled 6,999 cases during fiscal 1979 (1,843 cases for Latin America, 3,853 cases for North America, and Australia, and 1,303 for other destinations). Subjects of consultation cover a wider range, including the latest information on social conditions of the destination countries and the type of emigration.

Since Australia has been accepting Japanese immigrations in the past several years, the Agency stationed its staff in Canberra in February 1979. The Agency also sent an emigration survey team to Australia from March to April 1979.

As for the assistance to Japanese emigrants abroad, the Agency extended financial aids to them for improvement of medical services, which are the basis for stabilization of their lives, educational facilities, for construction of roads and for electrification of settlements. Loans were also provided for agricultural management.

Fig. 1. Emigrants by Type and Country (1979)



Chapter 6. Training and Recruiting of Qualified Japanese Experts for Technical Cooperation

1. Outline

While there are many capable persons in technical fields in Japan, the present employment system is hampering the recruitment of qualified experts for assignment to overseas technical cooperation activities. To improve this situation, the Agency has adopted the Experts Registration System and the Experts Pooling System which is aimed at pooling experts who have returned to Japan after completion of their overseas assignments or other experts who have expressed their intention to be dispatched abroad. For the smooth recruitment of qualified persons, the Agency has also adopted the Domestic Wage Supplement System for local public bodies and private enterprises which are cooperative in releasing their employees for overseas assignment.

To further improve the quality of experts, the Agency is conducting pre-departure training courses in foreign languages and in technical fields, and medium-term training courses in Japan and abroad, which provide extensive training on foreign languages and specialized techniques for experts to be assigned overseas in the near future, and also long-term training course at well-known research institutes or universities in foreign countries to train highly qualified technical experts who will engage in technical cooperation activities as their career.

Appendices (Statistics)

**Performance of Technical Cooperation by Region, Country,
Type of Cooperation and Sector
(As of March 31, 1980)**

Region, Country, Organization	Sector Type of Cooperation	Sector						
		Total	Agriculture	Fisheries	Construc- tion	Heavy Industries	Mining	Light Industries
ASIA								
Bangladesh	Participants	573 (122)	93 (20)	14 (3)	39 (5)	32 (6)	13 (3)	22 (3)
	Survey Team Members	384 (44)	84 (11)	12 (4)	160 (-)	20 (20)	-	19 (2)
	Experts	119 (15)	57 (10)	3 (-)	-	5	-	2 (1)
	Volunteers	99 (22)	80 (20)	4 (-)	4 (-)	4 (1)	-	1 (-)
Bhutan	Participants	75 (5)	24 (1)	-	1 (-)	3 (-)	-	3 (-)
Burma	Participants	688 (69)	149 (20)	25 (2)	58 (10)	87 (3)	28 (-)	39 (-)
	Survey Team Members	458 (97)	145 (41)	-	58 (12)	21 (5)	137 (-)	-
	Experts	187 (23)	48 (7)	1 (-)	11 (4)	1 (-)	21 (-)	3 (-)
China	Participants	86 (75)	-	-	11 (-)	-	-	-
	Survey Team Members	73 (59)	-	-	25 (25)	-	-	-
	Experts	16 (16)	-	-	-	-	-	-
India	Participants	1,581 (84)	467 (15)	84 (1)	107 (4)	71 (4)	14 (1)	157 (1)
Indonesia	Participants	(14) 2,666 (293)	(14) 659 (58)	203 (12)	281 (35)	125 (9)	94 (9)	207 (4)
	Survey Team Members	2,529 (390)	578 (117)	39 (9)	640 (81)	46 (5)	171 (39)	52 (11)
	Experts	1,065 (120)	289 (63)	44 (6)	141 (15)	16 (-)	46 (2)	14 (-)
Korea	Participants	(2) 2,685 (139)	(2) 650 (34)	118 (-)	120 (5)	81 (2)	39 (1)	113 (2)
	Survey Team Members	379 (14)	114 (4)	-	65 (-)	9 (-)	-	5 (-)
	Experts	533 (40)	123 (17)	1 (-)	86 (4)	20 (1)	13 (-)	2 (1)
Malaysia	Participants	(6) 1,392 (144)	(6) 265 (20)	64 (9)	89 (23)	40 (8)	18 (1)	53 (6)
	Survey Team Members	644 (157)	113 (23)	22 (-)	88 (47)	20 (3)	-	-
	Experts	208 (21)	43 (2)	33 (-)	28 (6)	18 (7)	5 (-)	4 (1)
	Volunteers	385 (20)	88 (5)	9 (-)	32 (2)	39 (-)	1 (-)	23 (-)

Note: The numbers in parenthesis show the performance in FY1979.

Chemical Industry	Public Works	Transportation	Postal Services & Telecommunications	Health & Welfare	Atomic Energy	Management Technology	Education	Administration	Others
12 (3)	12 (4)	58 (11)	66 (10)	63 (15)	8 (4)	27 (5)	7 (3)	83 (22)	24 (5)
--	15 (7)	3 (+)	27 (-)	15 (-)	--	10 (-)	--	--	19 (-)
--	--	10 (-)	8 (2)	14 (2)	--	--	6 (-)	8 (-)	6 (-)
--	--	2 (-)	--	--	--	--	--	2 (-1)	2 (-)
--	--	8 (-)	5 (-)	1 (1)	--	3 (-)	--	23 (3)	4 (-)
17 (3)	11 (2)	88 (8)	51 (4)	76 (9)	9 (-)	13 (1)	5 (-)	53 (6)	29 (1)
8 (2)	--	16 (16)	22 (-)	30 (16)	--	--	--	10 (5)	11 (-)
--	1 (-1)	2 (-)	28 (9)	41 (1)	--	--	10 (1)	16 (-)	4 (-)
--	--	32 (32)	--	37 (37)	--	2 (2)	4 (4)	--	--
--	7 (7)	41 (27)	--	--	--	--	--	--	--
--	--	2 (2)	--	4 (4)	--	7 (7)	--	3 (-3)	--
22 (-)	36 (11)	100 (7)	60 (-7)	71 (6)	10 (2)	47 (2)	40 (2)	225 (17)	70 (4)
54 (12)	85 (8)	417 (20)	232 (12)	398 (34)	30 (3)	147 (7)	71 (14)	463 (47)	200 (9)
58 (19)	131 (28)	304 (28)	52 (16)	59 (16)	--	--	--	188 (21)	211 (-)
--	94 (-)	68 (2)	46 (2)	136 (16)	--	4 (-)	59 (11)	78 (3)	30 (-)
31 (3)	17 (2)	245 (11)	112 (2)	261 (28)	65 (3)	60 (3)	107 (13)	511 (26)	135 (4)
--	55 (-)	49 (-)	--	20 (-)	--	--	--	35 (10)	27 (-)
1 (-)	1 (-)	59 (1)	13 (-)	86 (3)	--	12 (-)	6 (2)	89 (11)	21 (-)
8 (-)	37 (8)	169 (11)	125 (4)	81 (18)	4 (1)	48 (6)	34 (-)	286 (22)	81 (7)
40 (17)	157 (30)	79 (17)	27 (5)	--	--	--	--	39 (15)	59 (-)
5 (-)	--	45 (3)	14 (-)	15 (-1)	--	5 (-)	7 (-)	12 (1)	4 (-)
--	8 (-)	12 (-)	30 (5)	16 (1)	--	--	87 (-)	3 (3)	37 (4)

Region, Country, Organization	Sector Type of Cooperation	Sector						
		Total	Agriculture	Fisheries	Construc- tion	Heavy Industries	Mining	Light Industries
Moldive	Participants	17 (3)	--	2 (-)	--	--	--	--
	Survey Team Members	4 (4)	--	--	4 (4)	--	--	--
	Experts	9 (1)	1 (-)	2 (-)	--	--	--	--
Mongolia	Participants	20 (8)	2 (-)	--	--	--	--	8 (4)
Nepal	Participants	534 (56)	130 (10)	8 (-)	36 (6)	3 (-)	2 (-)	23 (2)
	Survey Team Member	212 (35)	33 (9)	--	--	6 (-)	--	5 (5)
	Experts	164 (16)	39 (2)	1 (-)	20 (-)	14 (-)	7 (4)	6 (4)
	Volunteers	176 (17)	38 (2)	8 (1)	26 (-)	3 (-)	1 (-)	3 (-)
Pakistan	Participants	920 (59)	117 (7)	24 (-)	47 (4)	18 (4)	6 (2)	81 (-)
	Survey Team Members	352 (40)	--	11 (4)	79 (4)	19 (8)	13 (-)	12 (-)
	Experts	227 (11)	59 (-)	15 (-)	18 (1)	2 (-)	7 (-)	12 (1)
Philippines	Participants	(8) 2,542 (215)	(8) 529 (27)	145 (12)	200 (17)	68 (9)	49 (4)	158 (10)
	Survey Team Members	1,417 (235)	265 (33)	32 (6)	247 (34)	62 (11)	207 (20)	32 (4)
	Experts	479 (105)	81 (24)	32 (-)	53 (3)	15 (-)	18 (4)	28 (1)
	Volunteers	449 (34)	253 (14)	42 (4)	14 (-)	16 (1)	--	28 (-)
Singapore	Participants	894 (109)	27 (2)	40 (3)	76 (20)	34 (5)	--	39 (2)
	Survey Team Members	61 (6)	--	--	5 (-)	--	--	--
	Experts	162 (32)	2 (-)	3 (-)	26 (2)	13 (2)	--	4 (-)
Sri Lanka	Participants	1,156 (102)	278 (19)	94 (2)	39 (2)	36 (3)	3 (-)	77 (2)
	Survey Team Members	286 (71)	57 (18)	32 (12)	27 (-)	--	--	22 (14)
	Experts	215 (2)	49 (-)	65 (1)	9 (-)	--	2 (-)	31 (-)
Thailand	Participants	(73) 3,612 (256)	(73) 760 (58)	260 (23)	213 (17)	41 (9)	48 (3)	181 (5)
	Survey Team Members	1,360 (254)	300 (65)	37 (11)	189 (32)	31 (16)	16 (7)	11 (-)
	Experts	1,070 (158)	166 (31)	59 (-)	97 (7)	6 (2)	8 (1)	33 (8)
Vietnam	Participants	657 (2)	115 (2)	27 (-)	23 (-)	3 (-)	6 (-)	18 (-)
	Experts	132 (3)	34 (-)	--	3 (-)	--	--	--
Hong Kong	Participants	65 (13)	5 (1)	--	--	--	--	3 (-)

Chemical Industry	Public Works	Transportation	Postal Services & Telecommunications	Health & Welfare	Atomic Energy	Management Technology	Education	Administration	Others
-	-	3 (-)	5 (2)	-	-	1 (-)	-	1 (1)	5 (-)
-	-	-	4 (-)	-	-	-	1 (1)	-	1 (-)
-	-	3 (-)	-	4 (2)	-	-	2 (2)	-	1 (-)
4 (1)	14 (-)	12 (1)	36 (4)	49 (10)	-	32 (3)	21 (-)	134 (15)	30 (4)
13 (-)	33 (-)	18 (-)	19 (14)	28 (7)	-	-	-	-	57 (-)
-	10 (-)	7 (-)	1 (-)	40 (4)	-	-	-	16 (2)	3 (-)
-	3 (-)	3 (-)	13 (1)	54 (8)	-	-	7 (-)	1 (1)	16 (4)
93 (-)	13 (-)	58 (-)	147 (16)	55 (7)	26 (1)	39 (3)	12 (-)	131 (13)	53 (2)
-	42 (12)	114 (12)	62 (-)	-	-	-	-	-	-
4 (-)	3 (-)	6 (-)	80 (8)	2 (1)	-	1 (-)	5 (-)	1 (-)	12 (-)
71 (10)	52 (6)	210 (24)	146 (9)	256 (23)	26 (4)	66 (5)	59 (9)	414 (40)	93 (6)
44 (11)	108 (36)	139 (28)	41 (10)	41 (6)	-	3 (-)	-	117 (36)	79 (-)
18 (4)	-	56 (23)	13 (3)	91 (17)	-	5 (-)	14 (1)	46 (22)	9 (3)
9 (2)	15 (-)	6 (-)	19 (5)	7 (3)	-	-	18 (1)	6 (4)	16 (-)
16 (2)	14 (3)	90 (12)	84 (10)	62 (9)	2 (-)	22 (4)	23 (1)	252 (32)	113 (4)
-	-	33 (-)	-	-	-	-	-	17 (-)	6 (6)
1 (-)	-	5 (-)	29 (8)	13 (5)	-	-	33 (6)	27 (9)	6 (-)
29 (4)	8 (-)	79 (8)	93 (14)	61 (7)	4 (1)	54 (6)	8 (2)	226 (26)	67 (6)
7 (-)	-	34 (18)	40 (5)	8 (4)	-	5 (-)	-	1 (-)	53 (-)
-	1 (-)	2 (-)	8 (-)	32 (-)	-	-	6 (-)	4 (1)	6 (-)
43 (6)	117 (9)	234 (19)	291 (12)	474 (35)	35 (2)	80 (8)	199 (4)	474 (34)	162 (12)
34 (4)	182 (56)	145 (6)	141 (11)	57 (26)	-	-	7 (-)	102 (20)	108 (-)
13 (4)	53 (4)	14 (1)	105 (7)	373 (58)	-	3 (3)	29 (-)	93 (32)	18 (-)
4 (-)	15 (-)	21 (-)	26 (-)	188 (-)	5 (-)	13 (-)	40 (-)	119 (-)	34 (-)
-	40 (-)	11 (-)	5 (3)	5 (-)	-	-	-	1 (-)	33 (-)
-	-	6 (2)	(-)	5 (4)	-	4 (-)	-	21 (5)	21 (1)

Region, Country, Organization	Sector							
	Type of Cooperation	Total	Agriculture	Fisheries	Construc- tion	Heavy Industries	Mining	Light Industries
Others	Participants	2,085 (3)	670 (3)	109 (-)	95 (-)	36 (-)	71 (-)	106 (-)
Unspecified	Participants	1,172 (87)	211 (47)	1 (-)	388 (-)	16 (-)	22 (8)	13 (-)
	Experts	40 (4)	7 (1)	1 (-)	6 (-)	-	2 (-)	-
Total for Asia	Participants	(103) 24,030 (1,757)	(103) 5,183 (297)	1,227 (67)	1,495 (148)	647 (62)	396 (24)	1,319 (41)
	Survey Team Members	9,970 (1,493)	1,984 (368)	198 (46)	2,094 (239)	250 (68)	587 (74)	171 (36)
	Experts	5,346 (567)	1,273 (157)	273 (7)	529 (42)	113 (12)	168 (11)	172 (17)
	Volunteer	1,506 (93)	648 (41)	65 (5)	121 (2)	62 (2)	10 (-)	78 (-)
MIDDLE EAST								
Afghanistan	Participants	459 (37)	81 (6)	2 (-)	21 (2)	10 (1)	9 (-)	26 (1)
	Experts	93 (4)	28 (-)	-	13 (-)	-	-	7 (-)
Algeria	Participants	46 (9)	6 (-)	-	-	2 (-)	-	-
	Survey Team Members	30 (3)	-	-	-	-	-	5 (1)
	Experts	38 (2)	9 (-)	-	1 (-)	-	-	2 (-)
Baharain	Participants	6 (2)	-	-	-	-	-	-
Egypt	Participants	832 (109)	63 (2)	6 (-)	60 (10)	29 (6)	14 (-)	53 (3)
	Survey Team Members	333 (106)	18 (18)	6 (6)	29 (22)	49 (9)	-	5 (-)
	Experts	137 (18)	7 (-)	1 (-)	7 (-)	10 (-)	-	5 (-)
Iran	Participants	1,016 (54)	155 (1)	22 (2)	110 (9)	23 (3)	26 (2)	42 (1)
	Survey Team Members	161 (6)	15 (-)	-	35 (-)	-	-	-
Iraq	Participants	503 (76)	22 (2)	7 (-)	47 (7)	12 (-)	5 (2)	41 (4)
	Survey Team Members	71 (22)	34 (14)	-	-	22 (-)	-	-
	Experts	65 (14)	2 (-)	-	4 (-)	23 (3)	-	2 (-)
Jordan	Participants	84 (16)	8 (-)	2 (-)	4 (1)	3 (2)	-	4 (-)
	Survey Team Members	103 (29)	-	-	29 (-)	-	-	-
	Experts	14 (3)	-	-	-	-	-	-
Kuwait	Participants	87 (11)	1 (-)	-	3 (2)	2 (-)	-	1 (-)

Chemical Industry	Public Works	Transportation	Postal Services & Telecommunications	Health & Welfare	Atomic Energy	Management Technology	Education	Administration	Others
20 (-)	59 (-)	123 (-)	108 (-)	139 (-)	60 (-)	54 (-)	138 (-)	204 (-)	93 (-)
4 (-)	-	87 (-)	25 (-)	42 (3)	-	-	-	116 (29)	247 (-)
-	-	7 (-)	-	11 (-)	-	-	-	3 (3)	3 (-)
428 (44)	508 (53)	2,012 (166)	1,672 (106)	2,308 (245)	285 (21)	726 (55)	809 (54)	3,750 (309)	1,265 (65)
208 (53)	781 (176)	1,140 (152)	473 (61)	311 (78)	-	18 (-)	7 (-)	640 (136)	1,108 (6)
43 (8)	175 (5)	303 (32)	431 (39)	1,048 (115)	-	42 (10)	211 (22)	424 (87)	141 (3)
10 (2)	37 (-)	25 (-)	101 (11)	93 (12)	-	-	164 (1)	12 (9)	80 (8)
8 (4)	28 (1)	12 (-)	71 (7)	87 (6)	-	12 (1)	4 (-)	58 (5)	30 (2)
-	-	-	24 (-)	7 (4)	-	-	-	5 (-)	9 (-)
5 (-)	-	2 (-)	23 (6)	3 (1)	-	-	-	5 (1)	-
-	-	-	14 (-)	11 (3)	-	-	-	-	-
-	-	1 (-)	9 (-)	6 (2)	-	-	8 (-)	2 (-)	-
-	1 (1)	-	1 (-)	-	-	-	-	4 (1)	-
20 (3)	28 (5)	152 (25)	118 (14)	82 (13)	4 (1)	42 (6)	4 (-)	140 (21)	17 (-)
-	32 (-)	78 (3)	7 (-)	25 (16)	-	6 (-)	-	78 (32)	-
-	-	49 (10)	13 (-)	15 (-)	-	-	1 (-)	28 (7)	1 (-)
24 (2)	45 (4)	63 (3)	146 (5)	84 (3)	6 (-)	28 (3)	13 (1)	175 (12)	54 (3)
26 (-)	4 (-)	27 (6)	12 (-)	9 (-)	-	-	-	13 (-)	20 (-)
12 (-)	16 (2)	58 (2)	97 (13)	30 (5)	4 (-)	33 (18)	3 (2)	108 (18)	8 (1)
-	7 (-)	-	8 (8)	-	-	-	-	-	-
2 (-)	-	-	6 (2)	2 (-)	-	-	-	19 (8)	5 (1)
4 (-)	-	4 (-)	34 (6)	-	-	2 (-)	1 (-)	17 (7)	1 (-)
-	-	-	21 (-)	-	-	-	-	53 (29)	-
-	-	-	8 (3)	-	-	-	-	6 (-)	-
3 (-)	1 (1)	2 (-)	61 (7)	1 (-)	-	1 (-)	-	11 (1)	-

Region, Country, Organization	Sector Type of Cooperation	Total	Sector					
			Agriculture	Fisheries	Construc- tion	Heavy Industries	Mining	Light Industries
Libya	Participants	41 (1)	3 (-)	-	1 (-)	2 (-)	2 (-)	3 (-)
Morocco	Participants	26 (5)	3 (-)	-	2 (-)	-	6 (2)	1 (-)
	Survey Team Members	87 (19)	-	5 (5)	-	-	82 (14)	-
	Volunteers	150 (20)	75 (3)	4 (-)	54 (6)	-	(-)	-
Oman	Participants	4 (1)	-	1 (1)	-	2 (-)	-	-
	Survey Team Members	29 (5)	-	-	-	5 (3)	7 (2)	-
Qatar	Participants	17 (6)	-	-	-	-	3 (-)	-
Saudi Arabia	Participants	168 (52)	2 (-)	1 (-)	8 (1)	29 (29)	7 (1)	4 (2)
	Survey Team Members	79 (19)	-	-	17 (-)	-	-	-
	Experts	99 (14)	-	4 (-)	21 (5)	3 (1)	27 (-)	4 (-)
Sudan	Participants	244 (34)	22 (8)	12 (-)	13 (1)	3 (1)	-	18 (3)
	Survey Team Members	100 (2)	41 (2)	-	32 (-)	-	15 (-)	-
	Experts	12 (6)	6 (3)	1 (-)	-	-	1 (1)	-
Syria	Participants	120 (12)	21 (-)	3 (1)	10 (3)	1 (-)	-	8 (-)
	Survey Team Members	15 (1)	12 (1)	-	-	-	-	-
	Experts	49 (4)	34 (-)	1 (-)	7 (4)	-	-	-
	Volunteers	44 (5)	16 (2)	3 (1)	5 (-)	1 (-)	-	-
Tunisia	Participants	34 (8)	-	9 (1)	-	5 (1)	-	-
	Survey Team Members	47 (13)	-	6 (-)	-	-	-	-
	Experts	23 (6)	-	9 (3)	-	5 (-)	-	-
	Volunteers	57 (11)	3 (-)	1 (1)	3 (-)	8 (-)	-	-
Turkey	Participants	509 (38)	28 (1)	31 (1)	78 (7)	32 (6)	26 (3)	31 (-)
	Survey Team Members	121 (19)	-	16 (4)	-	1 (-)	79 (15)	-
	Experts	97 (4)	-	33 (-)	13 (-)	1 (-)	28 (4)	1 (-)
Yemen	Participants	7 (5)	-	-	1 (-)	-	2 (1)	-
	Survey Team Members	55 (29)	29 (13)	-	-	-	-	-
	Experts	8 (2)	-	-	6 (2)	-	-	-

Chemical Industry	Public Works	Transportation	Postal Services & Telecommunications	Health & Welfare	Atomic Energy	Management Technology	Education	Administration	Others
2 (-)	2 (-)	1 (-)	16 (-)	-	-	-	-	5 (1)	4 (-)
-	2 (1)	1 (-)	3 (1)	2 (1)	-	-	2 (-)	4 (-)	-
-	-	2 (-)	2 (2)	2 (2)	-	-	3 (-)	4 (4)	4 (3)
-	-	-	-	-	-	-	-	1 (-)	-
17 (-)	-	-	-	-	-	-	-	-	-
1 (1)	3 (1)	-	7 (2)	-	-	1 (1)	-	2 (1)	-
3 (-)	3 (-)	6 (1)	51 (8)	10 (3)	-	-	1 (1)	41 (6)	2 (-)
38 (19)	-	-	11 (-)	-	-	-	5 (-)	-	8 (-)
-	-	3 (3)	14 (2)	-	-	2 (-)	-	17 (3)	4 (-)
3 (1)	7 (2)	38 (4)	57 (7)	16 (2)	-	5 (-)	4 (-)	42 (5)	4 (-)
2 (-)	2 (-)	6 (-)	-	-	-	-	-	2 (-)	-
-	-	2 (-)	2 (2)	-	-	-	-	-	-
3 (-)	9 (2)	17 (-)	19 (1)	6 (2)	-	4 (-)	-	17 (3)	2 (-)
-	-	-	-	-	-	-	-	3 (-)	-
-	-	3 (-)	-	-	-	-	-	3 (-)	1 (-)
-	-	1 (-)	3 (-)	2 (-)	-	-	5 (-)	-	8 (2)
-	7 (2)	4 (1)	1 (-)	4 (2)	-	1 (-)	-	3 (1)	-
-	37 (13)	-	-	4 (-)	-	-	-	-	-
-	-	1 (-)	1 (1)	5 (1)	-	-	-	2 (1)	-
-	-	1 (-)	5 (2)	18 (3)	-	-	5 (2)	-	13 (3)
21 (2)	48 (5)	36 (-)	65 (4)	24 (2)	-	8 (1)	19 (2)	47 (4)	14 (-)
-	25 (-)	-	-	-	-	-	-	-	-
1 (-)	14 (-)	-	1 (-)	2 (-)	-	-	-	2 (-)	1 (-)
-	1 (1)	-	1 (1)	1 (1)	-	-	-	1 (1)	-
-	22 (16)	-	-	-	-	-	-	-	4 (-)
-	-	-	-	2 (-)	-	-	-	-	-

Region, Country, Organization	Sector							
	Type of Cooperation	Total	Agriculture	Fisheries	Construc- tion	Heavy Industries	Mining	Light Industries
South Yemen	Participants	7 (2)	--	--	1 (--)	--	--	--
	Experts	1 (1)	--	1 (1)	--	--	--	--
United Arab Emirates	Participants	31 (8)	--	--	3 (--)	--	2 (1)	--
	Survey Team Members	59 (31)	5 (5)	--	--	--	--	--
	Experts	24 (8)	7 (2)	8 (4)	2 (2)	--	--	--
Unspecified	Experts	25 (1)	10 (--)	2 (--)	--	--	5 (--)	--
Total for Middle East	Participants	4,270 (486)	425 (20)	101 (6)	366 (43)	155 (49)	102 (12)	233 (14)
	Survey Team Members	1,430 (304)	192 (53)	35 (15)	161 (22)	77 (12)	188 (31)	17 (--)
	Experts	1,030 (87)	115 (5)	82 (8)	108 (13)	45 (4)	66 (5)	54 (--)
	Volunteers	251 (36)	94 (5)	8 (2)	62 (6)	9 (--)	--	--
AFRICA								
Benan	Participants	3 (1)	--	1 (--)	--	--	--	--
Botswana	Participants	3 (1)	--	--	--	--	1 (1)	--
	Experts	9 (9)	--	--	--	--	9 (9)	--
Bulundy	Participants	3 (1)	--	--	--	--	--	--
Cameroon	Participants	1 (1)	--	--	--	--	--	--
Central Africa	Participants	7 (1)	--	--	--	--	--	1 (--)
Ethiopia	Participants	248 (15)	17 (--)	1 (--)	19 (2)	4 (--)	20 (1)	22 (4)
	Experts	112 (6)	--	--	(5)	4 (--)	14 (--)	--
Gabon	Participants	7 (3)	3 (2)	3 (1)	--	--	--	--
	Survey Team Members	7 (1)	--	7 (1)	--	--	--	--
	Experts	1 (1)	--	1 (1)	--	--	--	--
Gambia	Participants	3 (1)	--	--	--	--	--	--

Chemical Industry	Public Works	Transportation	Postal Services & Telecommunications	Health & Welfare	Atomic Energy	Management Technology	Education	Administration	Others
-	-	3 (-)	2 (2)	-	-	1 (-)	-	-	-
2 (1)	1 (-)	2 (-)	14 (3)	1 (1)	-	1 (-)	-	4 (2)	1 (-)
-	7 (7)	28 (-)	-	-	-	-	-	19 (19)	-
-	1 (-)	-	6 (-)	-	-	-	-	-	-
-	-	-	-	(1)	-	-	-	4 (-)	4 (-)
111 (15)	202 (28)	404 (36)	789 (87)	351 (42)	15 (1)	139 (30)	51 (7)	687 (90)	139 (6)
83 (19)	136 (36)	139 (9)	113 (8)	56 (19)	-	6 (-)	5 (-)	177 (80)	45 (-)
5 (-)	37 (-)	74 (13)	140 (10)	119 (9)	-	4 (-)	28 (-)	137 (19)	16 (1)
-	-	4 (-)	10 (4)	22 (5)	-	-	13 (2)	4 (4)	25 (8)
-	-	-	-	-	-	-	-	1 (1)	1 (-)
-	-	-	2 (-)	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	1 (-)	-	1 (1)	1 (-)
-	-	(1)	-	-	-	-	-	-	-
-	-	-	4 (-)	-	-	-	-	1 (1)	1 (-)
-	17 (4)	16 (-)	76 (3)	7 (1)	-	11 (-)	1 (-)	31 (-)	6 (-)
-	21 (-)	19 (-)	36 (-)	-	-	-	-	(1)	18 (-)
-	-	-	-	-	-	-	-	-	1 (-)
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	2 (1)	-	-	-	-	1 (-)	-

Region, Country, Organization	Sector Type of Cooperation	Total	Sector					Mining	Light Industries
			Agriculture	Fisheries	Construc- tion	Heavy Industries			
Ghana	Participants	269 (23)	23 (1)	13 (3)	10 (-)	4 (-)	1 (-)	28 (1)	
	Survey Team Members	73 (8)	5 (-)	-	22 (-)	-	-	10 (-)	
	Experts	110 (7)	4 (-)	-	-	-	-	27 (2)	
	Volunteers	50 (20)	3 (1)	1 (1)	12 (5)	4 (-)	-	-	
Guinea	Participants	8 (1)	1 (1)	-	3 (-)	-	-	-	
	Survey Team Members	116 (41)	34 (19)	-	82 (22)	-	-	-	
Ivory Coast	Participants	20 (4)	-	9 (1)	1 (-)	-	-	-	
	Survey Team Members	9 (4)	-	4 (4)	-	-	-	5 (-)	
Kenya	Participants	238 (44)	20 (4)	20 (1)	25 (7)	2 (-)	-	14 (1)	
	Survey Team Members	229 (40)	1 (-)	8 (-)	113 (17)	-	-	-	
	Experts	201 (19)	14 (5)	5 (-)	9 (-)	5 (-)	6 (3)	6 (-)	
	Volunteers	300 (44)	55 (8)	22 (1)	43 (8)	22 (-)	-	9 (1)	
Liberia	Participants	53 (16)	12 (5)	-	5 (3)	1 (-)	-	-	
	Survey Team Members	44 (13)	-	-	33 (13)	-	-	-	
	Experts	19 (3)	5 (-)	-	8 (-)	-	-	-	
	Volunteers	7 (7)	1 (1)	-	-	2 (2)	-	-	
Madagascar	Participants	37 (5)	9 (1)	1 (-)	2 (-)	3 (-)	-	-	
	Survey Team Members	100 (12)	33 (4)	-	13 (8)	-	7 (-)	-	
Malawi	Participants	8 (2)	5 (-)	-	-	-	-	-	
	Experts	11 (1)	-	-	(1)	11 (-)	-	-	
	Volunteers	7 (53)	3 (2)	2 (1)	2 (8)	(6)	-	-	
Mali	Participants	10 (2)	-	-	2 (-)	-	3 (1)	-	
	Survey Team Members	57 (20)	18 (6)	-	-	-	14 (14)	-	
Mauritania	Participants	2 (1)	-	-	-	-	-	-	
	Experts	11 (1)	-	11 (1)	-	-	-	-	
Mauritius	Participants	7 (1)	-	-	6 (1)	-	-	-	
	Experts	69 (23)	-	-	69 (23)	-	-	-	

Chemical Industry	Public Works	Transportation	Postal Services & Telecommunications	Health & Welfare	Atomic Energy	Management Technology	Education	Administration	Others
2 (-)	2 (-)	17 (-)	72 (7)	44 (8)	-	14 (1)	2 (-)	30 (2)	7 (-)
-	-	-	6 (-)	14 (8)	-	-	-	2 (-)	14 (-)
-	1 (-)	2 (-)	-	69 (5)	-	-	-	6 (-)	1 (-)
-	1 (-)	-	-	-	-	-	27 (11)	1 (1)	1 (1)
2 (-)	-	-	1 (-)	-	-	-	-	-	1 (-)
-	-	-	-	-	-	-	-	-	-
-	-	5 (1)	2 (-)	-	-	1 (-)	-	2 (2)	-
-	-	-	-	-	-	-	-	-	-
1 (-)	4 (3)	19 (2)	57 (10)	24 (5)	-	13 (3)	-	32 (7)	7 (1)
-	25 (19)	-	15 (-)	11 (-)	-	-	6 (-)	31 (-4)	19 (-)
-	11 (1)	1 (-)	12 (5)	88 (2)	-	2 (-)	2 (-)	39 (3)	1 (-)
-	4 (-)	52 (-)	18 (6)	-	-	-	51 (12)	11 (7)	13 (1)
-	1 (-)	3 (1)	16 (2)	3 (1)	-	8 (2)	-	4 (2)	-
-	11 (-)	-	-	-	-	-	-	-	-
-	1 (-)	-	3 (3)	1 (-)	-	-	1 (-)	-	-
-	-	-	1 (1)	-	-	-	-	3 (-3)	-
-	4 (-)	5 (-)	11 (3)	-	-	-	-	1 (1)	1 (-)
-	28 (-)	-	15 (-)	-	-	-	-	-	4 (-)
-	-	-	2 (1)	-	-	1 (1)	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	(2)	(13)	-	-	(9)	(8)	(-4)
-	-	-	3 (1)	-	-	-	-	1 (-)	1 (-)
-	23 (-)	-	-	-	-	-	-	2 (-)	-
-	-	-	-	-	-	-	-	1 (1)	1 (-)
-	-	-	-	-	-	-	-	-	-
-	-	1 (-)	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Region, Country, Organization	Sector							
	Type of Cooperation	Total	Agriculture	Fisheries	Construc- tion	Heavy Industries	Mining	Light Industries
Niger	Participants	2 (1)	-	-	-	-	-	-
	Experts	27 (2)	-	-	-	(2)	-	-
Nigeria	Participants	285 (24)	43 (3)	22 (-)	11 (-)	9 (1)	7 (-)	24 (1)
	Survey Team Members	102 (17)	21 (-)	-	-	-	-	-
	Experts	78 (1)	5 (-)	2 (-)	7 (-)	-	-	-
Rwanda	Participants	8 (1)	-	-	-	-	-	-
	Survey Team Members	15 (10)	-	-	-	-	-	-
	Experts	9 (3)	-	-	-	1 (-)	-	-
Senegal	Participants	20 (3)	1 (-)	2 (1)	2 (1)	-	1 (-)	-
	Survey Team Member	29 (3)	-	-	26 (-)	-	-	-
Sierra Leone	Participants	12 (3)	-	-	1 (1)	-	-	-
	Survey Team Members	11 (6)	-	-	11 (6)	-	-	-
	Experts	1 (1)	-	-	-	-	-	-
Somalia	Experts	9 (2)	-	9 (2)	-	-	-	-
Swaziland	Survey Team Members	23 (23)	-	-	-	-	3 (3)	-
Tanzania	Participants	232 (31)	43 (6)	13 (-)	35 (4)	8 (3)	7 (1)	11 (1)
	Survey Team Members	346 (62)	63 (33)	-	140 (11)	10 (-)	-	23 (-)
	Experts	128 (6)	25 (1)	3 (-)	21 (-)	1 (-)	-	5 (1)
	Volunteers	298 (17)	151 (11)	17 (-)	24 (-)	9 (-)	-	7 (-)
Togo	Participants	3 (1)	-	-	-	-	-	-
Uganda	Participants	123 (5)	8 (-)	1 (-)	2 (-)	6 (-)	2 (-)	10 (-)
Upper Volta	Participants	6 (1)	-	-	-	1 (-)	-	-
Zaire	Participants	80 (10)	-	-	13 (3)	-	25 (3)	-
	Experts	98 (11)	(2)	-	46 (8)	-	-	-

Chemical Industry	Public Works	Transportation	Postal Services & Telecommunications	Health & Welfare	Atomic Energy	Management Technology	Education	Administration	Others
-	-	-	1 (1)	-	-	-	-	-	1 (-)
7 (-)	-	8 (-)	-	-	-	-	-	12 (-)	-
6 (-)	11 (2)	29 (3)	36 (4)	37 (4)	-	10 (-)	6 (1)	29 (5)	5 (-)
7 (-)	-	56 (13)	4 (-)	3 (-)	-	-	-	4 (4)	7 (-)
-	5 (-)	-	8 (-)	43 (1)	-	-	-	6 (-)	2 (-)
-	-	6 (-)	1 (1)	-	-	-	-	-	1 (-)
-	-	-	15 (10)	-	-	-	-	-	-
-	-	4 (1)	-	1 (1)	-	-	-	1 (1)	2 (-)
-	-	-	2 (-)	-	-	-	-	2 (1)	10 (-)
-	3 (3)	-	-	-	-	-	-	-	-
-	-	-	4 (1)	2 (-)	-	-	2 (-)	3 (-)	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	1 (1)	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	20 (20)	-	-	-	-	-	-	-
7 (2)	4 (2)	22 (2)	27 (4)	18 (2)	-	7 (1)	1 (-)	22 (3)	7 (-)
10 (-)	3 (3)	25 (-)	8 (-)	4 (-)	-	-	-	39 (15)	21 (-)
2 (-)	1 (-)	11 (3)	7 (-)	13 (-)	-	8 (-)	2 (-)	24 (1)	5 (-)
-	2 (-)	19 (-)	4 (-)	6 (-)	-	-	45 (-)	9 (6)	5 (-)
-	-	1 (-)	-	-	-	-	-	1 (1)	1 (-)
7 (1)	-	5 (1)	46 (2)	2 (-)	-	6 (-)	3 (-)	22 (1)	3 (-)
-	-	-	1 (-)	-	-	-	-	2 (1)	2 (-)
-	-	37 (2)	3 (1)	-	-	-	-	1 (1)	1 (-)
-	-	41 (-)	11 (-)	-	-	-	(1)	-	-

Region, Country, Organization	Sector							
	Type of Cooperation	Total	Agriculture	Fisheries	Construc- tion	Heavy Industries	Mining	Light Industries
Zambia	Participants	40 (3)	1 (-)	1 (-)	-	-	-	-
	Survey Team Members	19 (9)	-	-	-	-	-	-
	Experts	5 (1)	-	-	-	-	-	-
	Volunteers	136 (20)	18 (6)	8 (-)	2 (-)	11 (-)	-	-
Unspecified	Survey Team Members	182 (32)	6 (4)	18 (10)	4 (-)	-	9 (-)	30 (-)
	Experts	11 (4)	-	3 (-)	-	-	-	-
Total of Africa	Participants	1,773 (206)	188 (23)	90 (7)	138 (22)	38 (4)	68 (7)	110 (8)
	Survey Team Members	1,728 (333)	186 (66)	37 (15)	559 (100)	25 (-)	69 (26)	68 (-)
	Experts	847 (63)	77 (8)	43 (4)	104 (9)	13 (2)	23 (3)	54 (3)
	Volunteers	1,119 (167)	253 (29)	54 (3)	154 (26)	71 (8)	-	21 (1)
LATIN AMERICA								
Argentina	Participants	271 (36)	14 (5)	9 (1)	13 (4)	8 (2)	10 (4)	6 (-)
	Survey Team Members	74 (27)	15 (9)	-	-	-	39 (14)	-
	Experts	69 (10)	19 (6)	6 (-)	3 (1)	-	4 (1)	-
Barbados	Participants	5 (2)	1 (-)	1 (1)	-	-	-	-
Bolivia	Participants	255 (34)	13 (4)	-	41 (3)	3 (-)	35 (3)	1 (-)
	Survey Team Members	282 (58)	24 (20)	-	96 (-)	19 (-)	61 (8)	-
	Experts	91 (20)	1 (-)	6 (1)	-	4 (-)	24 (5)	-
	Volunteers	9 (1)	-	-	-	-	-	-
Brazil	Participants	(2) 895 (115)	(2) 182 (22)	34 (5)	47 (9)	34 (4)	11 (3)	46 (5)
	Survey Team Members	392 (49)	180 (28)	5 (-)	41 (-)	5 (5)	19 (-)	23 (-)
	Experts	268 (36)	93 (14)	11 (-)	11 (4)	10 (2)	13 (1)	18 (2)
Chile	Participants	250 (29)	8 (-)	22 (3)	27 (1)	16 (4)	16 (4)	8 (1)
	Survey Team Members	139 (35)	-	12 (7)	-	12 (-)	64 (19)	-
	Experts	91 (20)	1 (-)	26 (6)	4 (-)	12 (-)	17 (5)	-
Columbia	Participants	245 (36)	29 (3)	12 (-)	21 (2)	1 (1)	6 (-)	3 (-)
	Survey Team Members	128 (48)	12 (-)	18 (8)	37 (27)	-	27 (5)	-
	Experts	52 (4)	3 (-)	8 (2)	9 (-)	7 (-)	3 (1)	5 (-)

Chemical Industry	Public Works	Transportation	Postal Services & Telecommunications	Health & Welfare	Atomic Energy	Management Technology	Education	Administration	Others
-	-	8 (-)	15 (1)	1 (-1)	-	1 (-)	1 (-)	12 (1)	-
-	-	-	10 (-)	9 (9)	-	-	-	-	-
-	-	-	1 (-)	3 (-)	-	-	-	1 (1)	-
-	-	8 (-)	68 (9)	-	-	-	6 (-)	4 (4)	11 (1)
-	5 (5)	-	-	13 (-)	-	-	-	72 (13)	25 (-)
-	-	-	-	4 (4)	-	-	-	-	4 (-)
25 (3)	43 (11)	182 (13)	394 (43)	139 (23)	-	75 (8)	16 (1)	207 (32)	60 (1)
24 (-)	119 (30)	169 (33)	129 (10)	54 (17)	-	-	6 (-)	175 (36)	108 (-)
2 (-)	34 (1)	34 (4)	59 (8)	249 (14)	-	11 (-)	12 (1)	107 (6)	25 (-)
2 (-)	12 (-)	106 (-)	116 (18)	76 (13)	-	-	166 (32)	40 (30)	48 (7)
6 (-)	27 (1)	65 (4)	45 (6)	33 (5)	1 (-)	10 (1)	-	23 (3)	1 (-)
4 (-)	6 (-)	4 (4)	-	6 (-)	-	-	-	-	-
-	-	11 (-)	-	11 (2)	-	12 (-)	-	3 (-)	-
-	-	1 (-)	-	1 (1)	-	1 (-)	-	-	-
1 (-)	15 (4)	21 (3)	58 (5)	41 (8)	1 (-)	1 (-)	3 (-)	17 (3)	4 (1)
-	15 (6)	55 (21)	5 (-)	7 (3)	-	-	-	-	-
-	1 (-)	3 (-)	8 (1)	31 (12)	-	-	8 (1)	3 (-)	2 (-)
-	-	-	-	-	-	-	-	-	9 (1)
13 (2)	74 (3)	95 (8)	74 (6)	83 (17)	3 (-)	60 (7)	11 (2)	114 (21)	14 (1)
-	6 (-)	16 (-)	-	14 (4)	-	10 (-)	-	50 (12)	23 (-)
3 (-)	10 (-)	25 (-)	6 (1)	26 (5)	6 (1)	3 (1)	8 (-)	22 (5)	3 (-)
2 (-)	10 (2)	31 (1)	19 (3)	46 (7)	-	6 (1)	8 (2)	19 (-)	2 (-)
-	23 (6)	8 (-)	5 (-)	7 (3)	-	-	-	8 (-)	-
-	5 (-)	6 (-)	1 (1)	17 (6)	-	1 (1)	-	1 (1)	-
4 (-)	27 (5)	20 (3)	63 (6)	20 (10)	-	21 (4)	-	16 (2)	2 (-)
-	34 (8)	-	-	-	-	-	-	-	-
-	3 (-)	1 (-)	4 (-)	3 (1)	-	5 (-)	-	1 (-)	-

Region, Country, Organization	Sector							
	Type of Cooperation	Total	Agriculture	Fisheries	Construc- tion	Heavy Industries	Mining	Light Industries
Costa Rica	Participants	(1) 108 (19)	(1) 11 (1)	3 (1)	8 (1)	—	—	—
	Survey Team Members	57 (5)	7 (—)	—	—	—	—	—
	Experts	51 (1)	9 (—)	—	13 (—)	—	—	—
	Volunteers	30 (10)	3 (3)	1 (—)	—	—	—	—
Dominican Republic	Participants	57 (5)	13 (—)	—	3 (—)	—	—	2 (—)
	Survey Team Members	22 (22)	13 (13)	—	—	—	—	—
	Experts	8 (2)	2 (—)	—	1 (—)	—	—	—
Ecuador	Participants	130 (13)	9 (—)	17 (—)	21 (2)	—	6 (—)	3 (—)
	Survey Team Members	47 (9)	20 (6)	—	—	—	3 (—)	—
	Experts	53 (7)	7 (1)	—	1 (—)	—	12 (—)	1 (—)
El Salvador	Participants	88 (3)	2 (—)	—	6 (—)	3 (—)	2 (—)	11 (—)
Guatemala	Participants	104 (14)	10 (—)	—	4 (—)	—	9 (2)	—
	Survey Team Members	112 (14)	5 (—)	—	—	—	46 (14)	—
	Experts	70 (12)	—	1 (—)	7 (—)	—	1 (—)	—
Guiana	Participants	18 (4)	6 (1)	3 (—)	—	1 (—)	—	—
Haiti	Experts	6 (1)	3 (—)	—	—	—	—	—
Honduras	Participants	78 (13)	6 (1)	1 (—)	8 (2)	—	4 (2)	—
	Survey Team Members	124 (29)	32 (5)	5 (5)	14 (—)	—	46 (14)	—
	Volunteers	7 (13)	2 (—)	(1)	1 (—)	(2)	—	—
Jamaica	Participants	16 (6)	4 (2)	—	—	—	1 (1)	—
Mexico	Participants	1,053 (132)	71 (4)	113 (21)	24 (1)	191 (28)	31 (—)	90 (—)
	Survey Team Members	141 (40)	19 (19)	—	7 (—)	—	64 (12)	—
	Experts	122 (20)	10 (—)	22 (—)	2 (—)	2 (1)	7 (4)	—
Panama	Participants	86 (17)	8 (—)	5 (—)	7 (4)	—	4 (1)	1 (—)
	Survey Team Members	39 (14)	—	—	39 (14)	—	—	—
	Experts	12 (4)	1 (—)	1 (—)	—	—	2 (2)	—

Chemical Industry	Public Works	Transportation	Postal Services & Telecommunications	Health & Welfare	Atomic Energy	Management Technology	Education	Administration	Others
-	11 (5)	21 (2)	21 (2)	20 (5)	-	5 (1)	-	5 (1)	3 (-)
-	7 (-)	13 (5)	-	2 (-)	-	-	-	25 (-)	3 (-)
-	3 (-)	9 (-)	-	11 (1)	-	-	1 (-)	5 (-)	-
-	-	-	1 (1)	2 (2)	-	-	6 (1)	-	17 (3)
-	5 (1)	10 (1)	3 (-)	11 (2)	-	9 (-)	-	1 (-)	-
-	9 (9)	-	-	-	-	-	-	-	-
-	-	-	-	4 (2)	-	-	-	1 (-)	-
2 (-)	19 (-)	8 (-)	15 (4)	8 (3)	-	7 (2)	-	12 (2)	3 (-)
-	17 (-)	-	-	7 (3)	-	-	-	(2)	-
8 (-)	7 (-)	1 (-)	-	10 (4)	-	-	-	4 (2)	2 (-)
4 (-)	2 (-)	5 (-)	21 (2)	10 (1)	-	1 (-)	4 (-)	11 (-)	6 (-)
-	8 (2)	18 (-)	35 (5)	13 (3)	-	4 (1)	-	-	3 (1)
-	21 (-)	24 (-)	-	16 (-)	-	-	-	-	-
-	5 (3)	-	6 (-)	45 (9)	-	-	-	5 (-)	-
-	3 (1)	-	4 (2)	-	-	1 (-)	-	-	-
-	-	-	1 (-)	(1)	-	2 (-)	-	-	-
2 (1)	-	6 (1)	26 (3)	14 (3)	-	3 (-)	1 (-)	7 (-)	-
-	-	27 (5)	-	-	-	-	-	-	-
(2)	-	-	-	3 (-)	-	-	-	1 (1)	(7)
-	-	3 (-)	-	-	-	3 (-)	-	5 (3)	-
49 (14)	19 (1)	83 (11)	154 (11)	65 (16)	6 (1)	51 (14)	19 (-)	38 (7)	49 (3)
-	-	40 (6)	11 (3)	-	-	-	-	-	-
2 (-)	-	13 (3)	50 (6)	2 (-)	-	-	6 (4)	4 (2)	2 (-)
-	2 (-)	6 (1)	25 (4)	10 (4)	1 (1)	5 (-)	1 (-)	11 (2)	-
-	-	-	-	-	-	-	-	-	-
-	-	-	8 (2)	-	-	-	-	-	-

Region, Country, Organization	Sector Type of Cooperation	Total	Sector					
			Agriculture	Fisheries	Construc- tion	Heavy Industries	Mining	Light Industries
Paraguay	Participants	(1) 209 (51)	(1) 51 (14)	1 (1)	1 (-)	2 (-)	-	1 (1)
	Survey Team Members	206 (68)	98 (39)	-	17 (-)	2 (-)	-	6 (6)
	Experts	81 (12)	38 (8)	-	-	-	-	1 (-)
	Volunteers	19 (12)	10 (6)	-	-	-	-	-
Peru	Participants	525 (62)	20 (2)	48 (7)	58 (10)	15 (1)	41 (3)	12 (2)
	Survey Team Members	288 (55)	10 (-)	41 (-)	8 (-)	7 (-)	200 (34)	-
	Experts	142 (33)	3 (1)	31 (6)	21 (4)	2 (2)	13 (2)	1 (1)
	Volunteers	1 (1)	-	-	-	-	-	-
Trinidad and Tobago	Participants	-	-	-	-	-	-	-
Uruguay	Participants	58 (14)	8 (5)	4 (2)	-	-	-	2 (1)
	Survey Team Members	15 (5)	15 (5)	-	-	-	-	-
	Experts	20 (7)	10 (3)	-	-	-	-	2 (-)
Venezuela	Participants	111 (25)	6 (2)	2 (-)	11 (5)	8 (2)	1 (-)	4 (3)
	Survey Team Members	40 (14)	-	-	-	6 (6)	6 (-)	-
	Experts	28 (5)	-	1 (-)	6 (-)	-	-	-
Unspecified	Survey Team Members	153 (21)	19 (6)	-	5 (-)	-	35 (-)	16 (-)
	Experts	31 (1)	1 (-)	-	3 (-)	-	-	-
Total for Latin America	Participants	(4) 4,662 (663)	(4) 493 (67)	297 (42)	306 (45)	284 (42)	180 (23)	191 (13)
	Survey Team Members	2,405 (513)	484 (150)	85 (20)	277 (41)	60 (11)	610 (120)	45 (6)
	Experts	1,261 (195)	208 (33)	131 (15)	82 (9)	44 (5)	96 (21)	29 (3)
	Volunteers	173 (37)	23 (9)	10 (1)	1 (-)	2 (2)	-	-
OCEANIA AND EUROPE								
Fiji	Participants	45 (9)	5 (-)	7 (1)	3 (-)	-	1 (-)	2 (-)
	Survey Team Members	34 (12)	28 (6)	6 (6)	-	-	-	-
	Experts	17 (2)	2 (1)	1 (-)	-	-	-	-
Kiribati	Survey Team Members	20 (6)	-	20 (6)	-	-	-	-
	Experts	1 (1)	-	1 (1)	-	-	-	-

Chemical Industry	Public Works	Transportation	Postal Services & Telecommunications	Health & Welfare	Atomic Energy	Management Technology	Education	Administration	Others
2 (-)	6 (-)	12 (5)	44 (13)	26 (5)	-	21 (2)	-	41 (10)	1 (-)
-	4 (-)	43 (18)	19 (-)	3 (-)	-	-	-	14 (5)	-
-	-	2 (-)	12 (1)	6 (2)	-	-	-	22 (1)	-
-	-	-	1 (-)	4 (4)	-	-	-	1 (-)	2 (2)
5 (1)	34 (4)	45 (3)	126 (14)	29 (3)	1 (1)	36 (4)	5 (-)	43 (7)	7 (-)
-	45 (1)	-	44 (5)	15 (15)	-	-	-	18 (-)	-
2 (1)	5 (1)	2 (-)	35 (8)	7 (3)	-	1 (1)	2 (-)	17 (3)	-
-	-	-	-	-	-	-	-	-	1 (1)
-	1 (-)	5 (-)	16 (1)	12 (3)	-	2 (-)	-	8 (2)	-
-	-	-	-	-	-	-	-	-	-
-	-	5 (4)	2 (-)	-	-	-	-	1 (-)	-
2 (1)	8 (1)	20 (2)	22 (1)	3 (1)	-	14 (2)	1 (1)	7 (3)	2 (1)
3 (-)	-	14 (8)	-	-	-	6 (-)	-	5 (-)	-
2 (-)	2 (2)	4 (-)	8 (2)	-	-	-	-	3 (1)	2 (-)
-	-	15 (8)	2 (-)	12 (-)	-	-	-	39 (7)	10 (-)
-	-	-	9 (-)	18 (1)	-	-	-	-	-
92 (19)	276 (30)	485 (46)	796 (89)	447 (97)	13 (3)	271 (39)	53 (5)	381 (66)	97 (7)
7 (-)	187 (30)	264 (75)	86 (8)	89 (28)	-	16 (-)	-	159 (24)	36 (-)
19 (1)	42 (6)	88 (7)	159 (22)	200 (49)	6 (1)	22 (3)	27 (5)	97 (15)	11 (-)
4 (2)	-	1 (-)	7 (1)	6 (6)	-	1 (-)	42 (1)	2 (1)	74 (14)
-	-	1 (-)	10 (4)	1 (-)	-	1 (-)	-	7 (1)	7 (2)
-	-	-	-	-	-	-	-	-	-
-	-	2 (-)	8 (1)	1 (-)	-	-	-	-	3 (-)
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

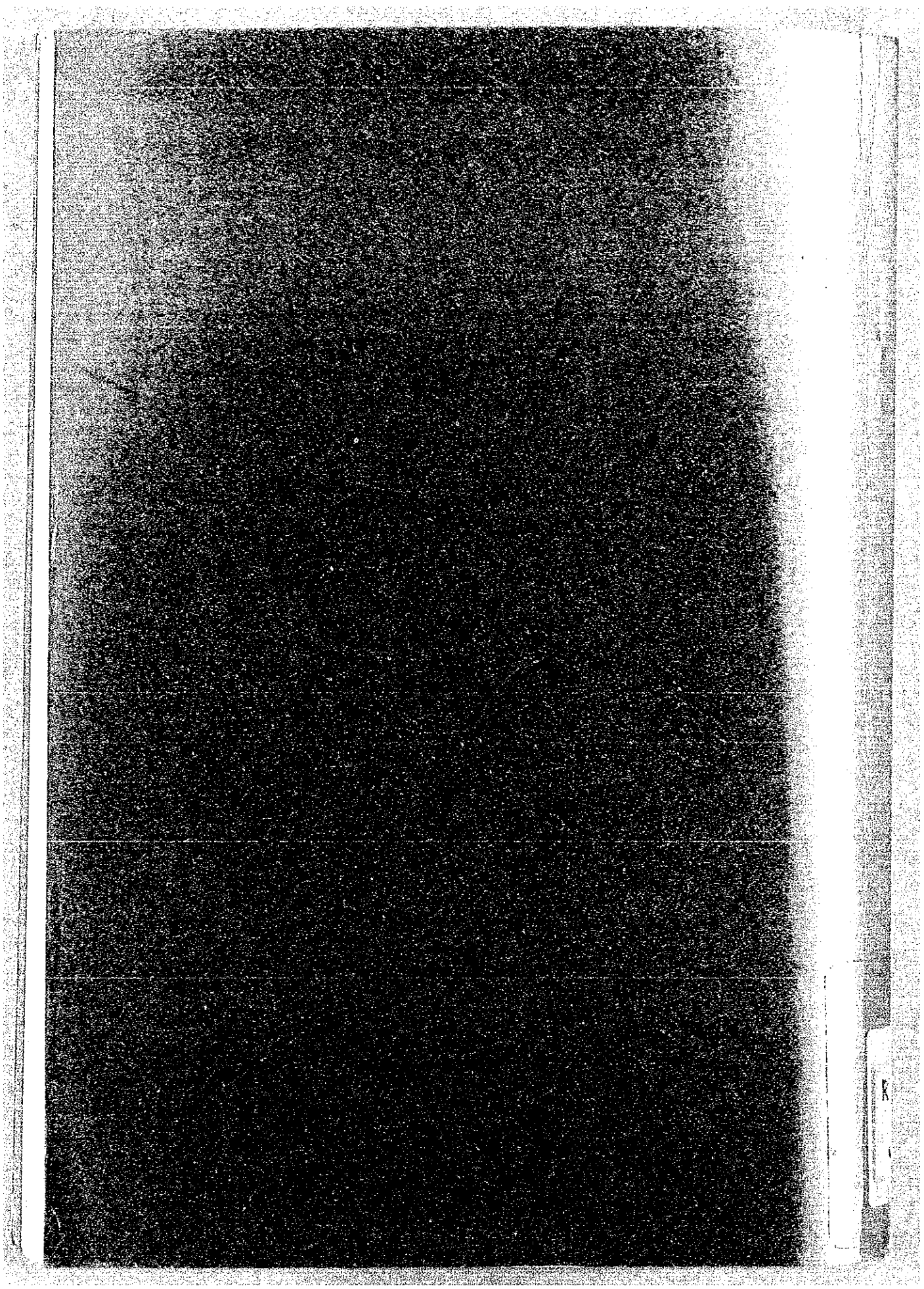
Region, Country, Organization	Sector Type of Cooperation	Total	Agriculture	Fisheries	Construc- tion	Heavy Industries	Mining	Light Industries
Micronesia	Participants	9 (2)	2 (-)	1 (1)	-	-	-	1 (-)
	Survey Team Members	30 (11)	6 (6)	24 (5)	-	-	-	-
	Experts	26 (10)	1 (-)	24 (10)	-	-	-	-
Papua New Guinea	Participants	⁽⁴⁾ 64 (17)	⁽⁴⁾ 7 (3)	5 (1)	3 (1)	5 (2)	1 (-)	-
	Survey Team Members	155 (15)	45 (15)	35 (-)	-	-	-	-
	Experts	11 (1)	2 (-)	7 (1)	-	-	-	-
Pacific Island	Participants	1 (1)	-	-	-	-	-	-
Solomon Island	Participants	3 (1)	-	-	-	-	-	-
	Survey Team Members	48 (7)	4 (-)	5 (-)	-	-	2 (2)	-
	Experts	2 (2)	(2)	-	-	-	-	-
Tonga	Participants	14 (3)	-	7 (2)	-	1 (-)	-	-
Western Samoa	Participants	30 (4)	1 (-)	3 (-)	-	-	-	1 (-)
	Volunteers	49 (13)	7 (2)	9 (3)	16 (4)	5 (-)	-	-
Scrypas	Participants	7 (1)	1 (-)	-	-	-	-	-
Yugoslavia	Participants	14 (2)	2 (-)	1 (-)	5 (-)	2 (1)	-	-
Others	Participants	130 (3)	11 (-)	4 (-)	11 (1)	33 (1)	-	8 (-)
	Survey Team Members	3 (1)	-	-	-	-	-	-
Unspecified	Survey Team Members	9 (5)	-	-	-	-	-	-
Total for Oceania and Europe	Participants	⁽⁴⁾ 329 (42)	⁽⁴⁾ 29 (3)	31 (5)	24 (2)	41 (4)	2 (-)	14 (-)
	Survey Team Members	321 (57)	89 (27)	90 (17)	16 (-)	-	2 (2)	-
	Experts	95 (14)	11 (1)	37 (12)	12 (-)	7 (-)	-	-
	Volunteers	61 (15)	10 (4)	16 (3)	16 (4)	7 (-)	-	-
INTERNATIONAL ORGANIZATION								
AIT	Experts	44 (4)	-	-	11 (-)	-	-	-
ADT	Experts	3 (3)	-	-	-	-	-	-

Chemical Industry	Public Works	Transportation	Postal Services & Telecommunications	Health & Welfare	Atomic Energy	Management Technology	Education	Administration	Others
-	-	-	-	-	-	-	-	2 (-)	3 (1)
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	1 (-)	-
-	2 (1)	8 (1)	3 (1)	3 (1)	-	4 (-)	3 (1)	12 (4)	8 (1)
-	64 (-)	-	-	-	-	-	-	11 (-)	-
-	-	-	-	2 (-)	-	-	-	-	-
-	-	-	-	-	-	-	-	-	(1)
-	-	-	2 (-)	-	-	-	1 (1)	-	-
-	-	-	23 (5)	-	-	-	-	14 (-)	-
-	-	2 (-)	-	-	-	-	-	-	-
-	-	2 (-)	-	-	-	-	-	4 (1)	-
-	-	4 (1)	1 (-)	2 (-)	-	1 (-)	-	5 (2)	12 (1)
-	-	2 (-)	1 (-)	5 (2)	-	-	-	3 (2)	1 (-)
-	-	1 (-)	2 (-)	1 (-)	-	1 (1)	-	-	1 (-)
-	-	1 (1)	-	-	1 (-)	1 (-)	-	1 (-)	-
4 (-)	-	9 (-)	4 (-)	2 (-)	23 (-)	3 (-)	3 (1)	5 (-)	10 (-)
-	-	-	-	-	-	-	-	3 (1)	-
-	-	-	-	-	-	-	-	9 (5)	-
4 (-)	2 (1)	26 (4)	23 (5)	9 (1)	26 (-)	12 (1)	7 (3)	36 (8)	43 (5)
-	64 (-)	-	23 (5)	-	-	-	-	37 (6)	-
-	-	7 (-)	8 (1)	5 (-)	-	-	-	3 (-)	5 (-)
-	-	2 (-)	1 (-)	5 (2)	-	-	-	3 (2)	1 (-)
1 (-)	-	5 (-)	-	-	-	-	22 (-)	(4)	5 (-)
-	-	-	(3)	-	-	-	-	-	-

Region, Country, Organization	Sector Type of Cooperation	Sector						
		Total	Agriculture	Fisheries	Construc- tion	Heavy Industries	Mining	Light Industries
AVRDC	Experts	3 (1)	3 (1)	-	-	-	-	-
CPSC	Experts	9 (2)	-	-	-	-	-	-
CP	Experts	1 (1)	-	-	-	-	-	-
ECAFE /ESCAP	Experts	170 (15)	16 (1)	1 (-)	31 (7)	9 (-)	28 (1)	3 (-)
ILO	Experts	4 (2)	-	-	-	-	-	-
ITU	Experts	13 (2)	-	-	-	-	-	-
SEAFDEC	Experts	143 (22)	-	134 (22)	1 (-)	-	-	-
SEAMEO /BIOTROP	Experts	1 (1)	1 (1)	-	-	-	-	-
SEARCA	Experts	6 (1)	6 (1)	-	-	-	-	-
SEATAC	Experts	5 (3)	-	-	-	-	-	-
TECH- NONEST ASIA	Experts	20 (11)	-	-	-	17 (8)	-	-
Total for International Organization	Experts	498 (68)	42 (4)	135 (22)	52 (7)	28 (8)	29 (1)	4 (-)
Grand Total	Participants	(111) 35,064 (3,124)	(111)(410) 6,318 (410)	1,746 (127)	2,329 (260)	1,165 (161)	748 (66)	1,867 (76)
	Survey Team Members	15,854 (2,700)	2,935 (664)	445 (113)	3,107 (402)	412 (91)	1,456 (253)	301 (42)
	Experts	9,077 (994)	1,726 (208)	701 (68)	887 (80)	250 (31)	382 (41)	313 (23)
	Volunteers	3,110 (348)	1,028 (88)	153 (14)	354 (38)	151 (12)	10 (-)	99 (1)

Chemical Industries	Public Works	Transportation	Postal Services & Telecommunications	Health & Welfare	Atomic Energy	Management Technology	education	Administration	Others
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	9 (2)	-	-
-	-	-	-	-	-	-	-	1 (1)	-
5 (-)	-	33 (3)	5 (-)	1 (-)	-	2 (-)	6 (-)	13 (3)	17 (-)
-	-	-	-	-	-	-	-	4 (2)	-
-	-	-	13 (- 2)	-	-	-	-	-	-
-	-	-	4 (-)	-	-	-	-	4 (-)	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	5 (3)	-	-	-	-	-	-	-
-	-	-	-	-	-	3 (3)	-	-	-
8 (-)	3 (-)	51 (6)	25 (5)	5 (-)	-	6 (3)	40 (6)	42 (6)	28 (-)
660 (81)	1,031 (123)	3,109 (265)	3,674 (330)	3,254 (408)	339 (25)	1,223 (133)	836 (70)	5,061 (505)	1,604 (84)
322 (72)	1,287 (272)	1,712 (269)	824 (92)	510 (142)	-	40 (-)	18 (-)	1,188 (282)	1,297 (6)
77 (9)	291 (12)	557 (62)	822 (85)	1,626 (187)	6 (1)	85 (16)	318 (34)	810 (133)	226 (4)
16 (4)	49 (-)	138 (-)	235 (34)	202 (38)	-	1 (-)	385 (36)	61 (46)	228 (37)

Remark: The numbers in parenthesis, of which are participants accepted under the Development Cooperation Programme shown in Chapter 4, are included in the actual figures.



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