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**INTERNATIONAL ATOMIC ENERGY AGENCY**

IAEA-CPS-92/18  
18 November 1992  
Original: ENGLISH

## **COUNTRY PROGRAMME SUMMARY**

**THE AGENCY'S TECHNICAL CO-OPERATION**

**PROGRAMME WITH**

**CAMEROON**

**1982 - 1992**

**COUNTRY PROGRAMME SUMMARIES**

**DEPARTMENT OF TECHNICAL CO-OPERATION**

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CAMEROON  
  
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COUNTRY PROGRAMME SUMMARIES

EVALUATION SECTION

**DEPARTMENT OF TECHNICAL CO-OPERATION**

**THE AGENCY'S TECHNICAL CO-OPERATION  
PROGRAMME WITH  
CAMEROON  
1982 - 1992  
COUNTRY PROGRAMME SUMMARIES**

This report contains a review of the Agency's technical co-operation activities in Cameroon carried out during 1982 - 1992. In terms of coverage and analytical depth, country programme summaries stand somewhere midway between in-depth country programme evaluations and individual project evaluations. They attempt to provide a comprehensive, descriptive picture of the Agency's co-operation with a Member State in a manner that will be particularly useful for programming decisions. The attempt is very much to describe -- largely through statistical data -- not to provide independent analysis and evaluation.

**CAMEROON**

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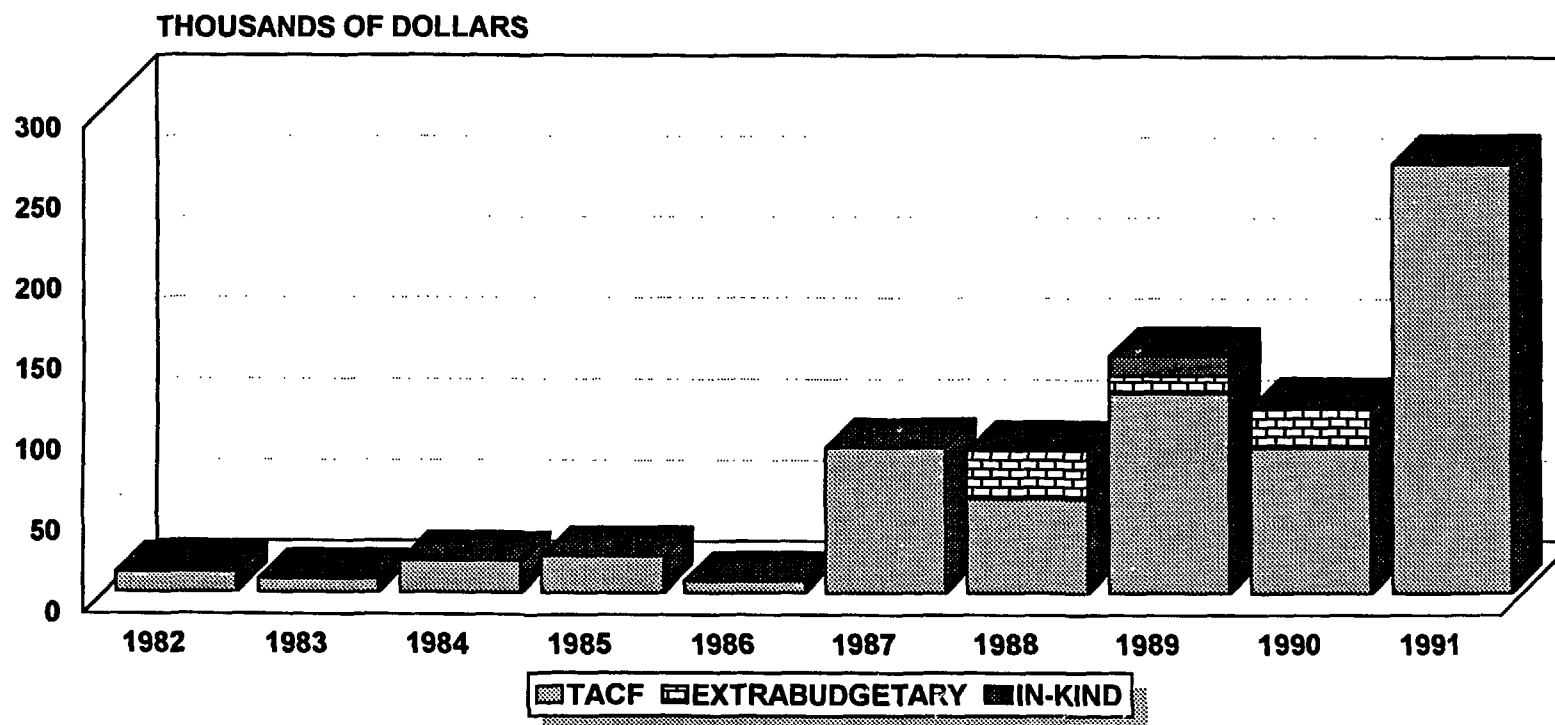
## INTRODUCTION

The country programme summary reported on here is one in the series of such studies being undertaken of the Agency's TC programme with Member States. With \$1.3 million of Agency support received, Cameroon ranks 68<sup>th</sup> among all recipients of technical assistance in the period 1958 through 1991.

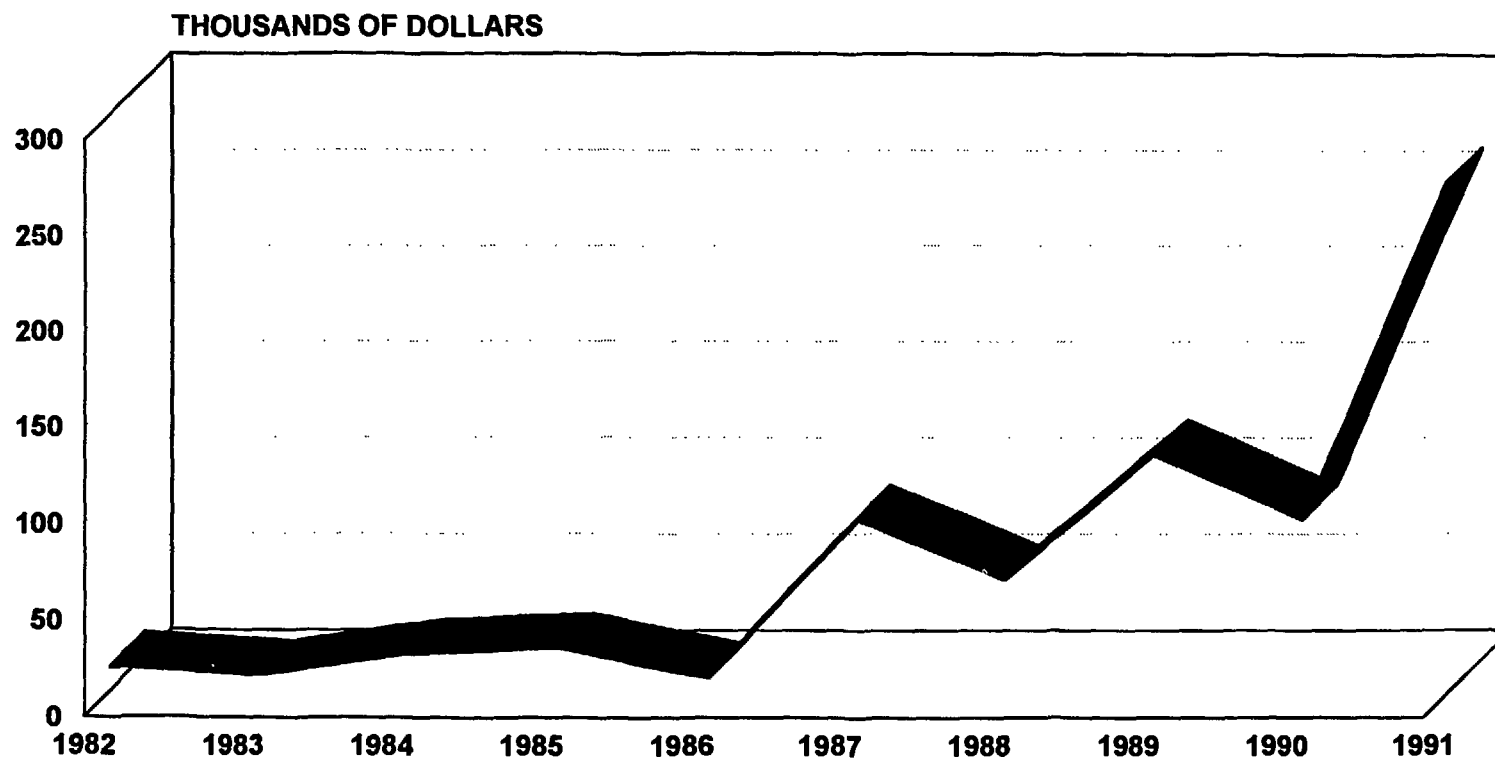
More than half of the assistance received during the past ten years has been provided in the form of equipment (61%), followed by expert services (24%) and training (15%). The best part of the resources were provided by the Technical Assistance and Co-operation Fund (90%); the remaining ten per cent were made available through extrabudgetary contributions (8%) and assistance in kind (2%).

With regard to project disbursements by sector, the four major areas have been nuclear physics and chemistry (38%), agriculture (23%), nuclear medicine (14%) and hydrology (13%).

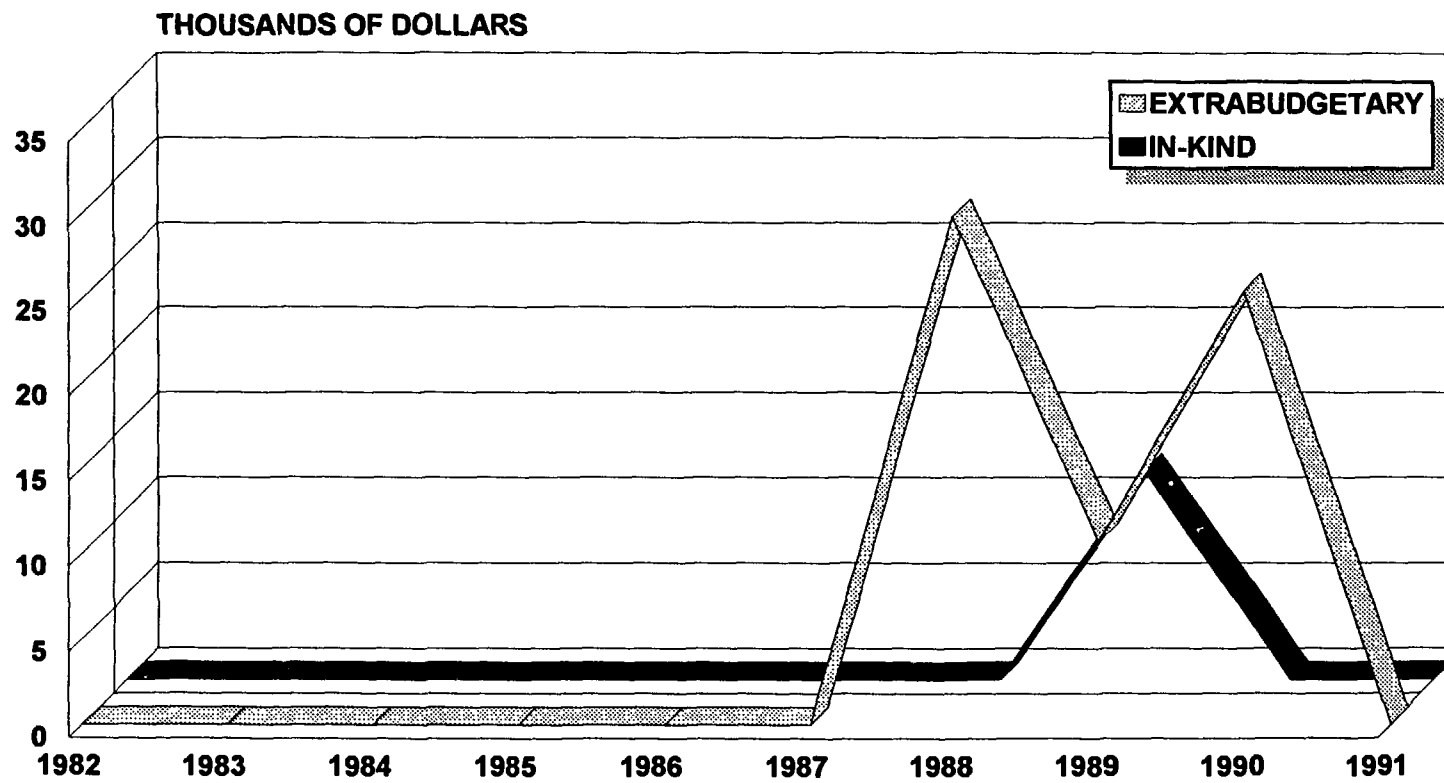
## ASSISTANCE PROVIDED BY THE AGENCY TO CAMEROON BY SOURCE (1982 - 1991)



## TACF ASSISTANCE PROVIDED TO CAMEROON (1982 - 1991)

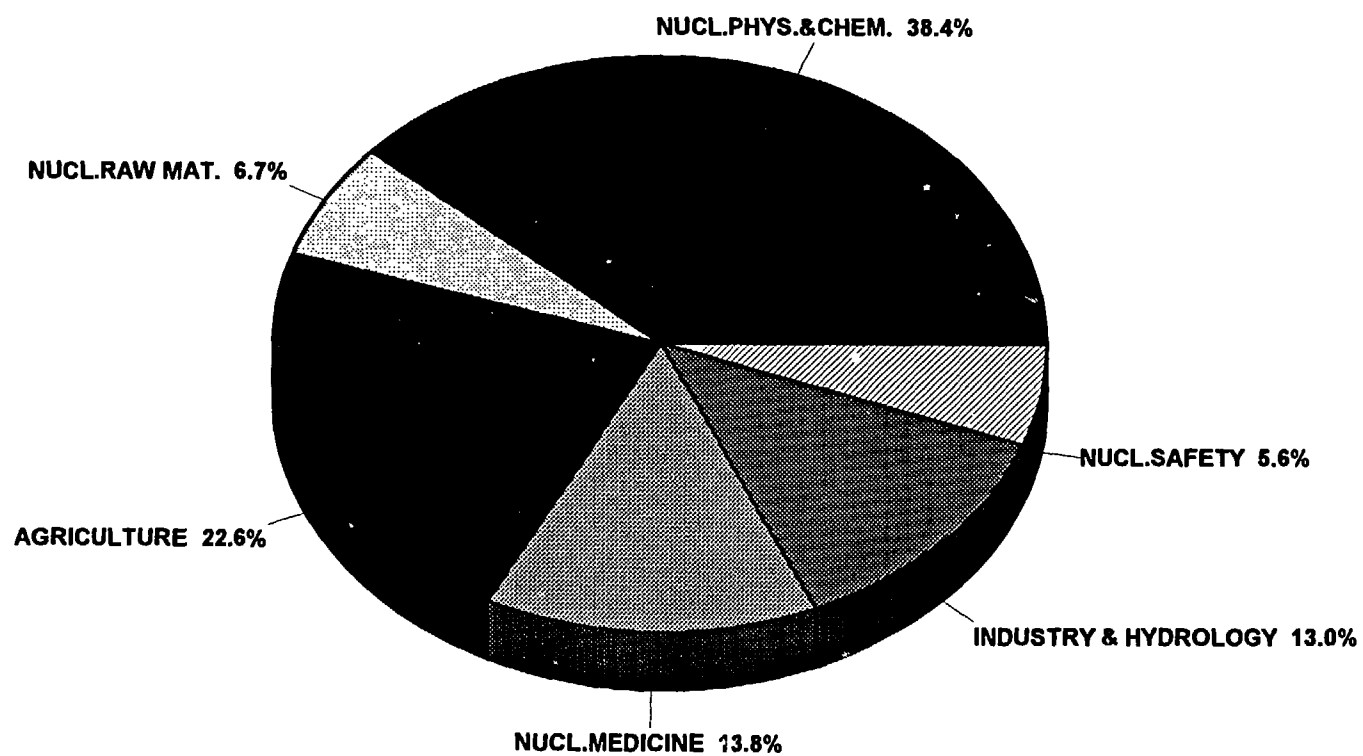


## EXTRABUDGETARY AND IN-KIND ASSISTANCE PROVIDED TO CAMEROON (1982 - 1991)

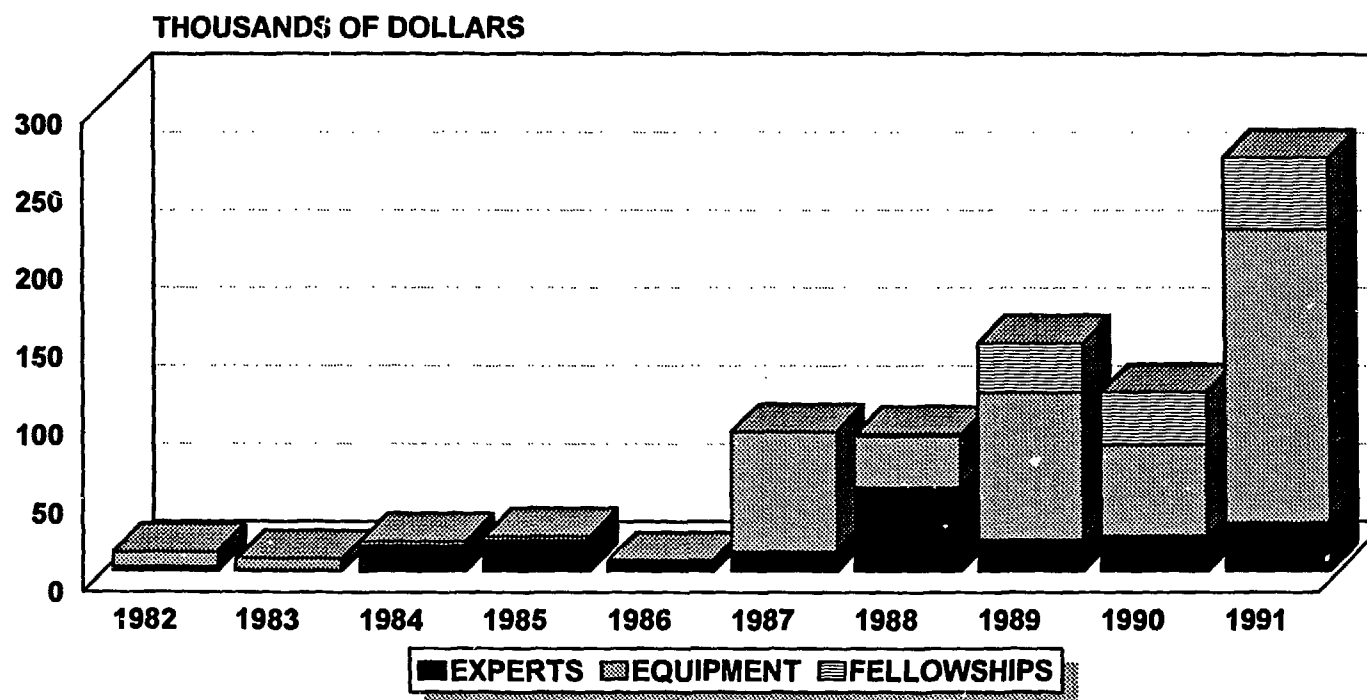




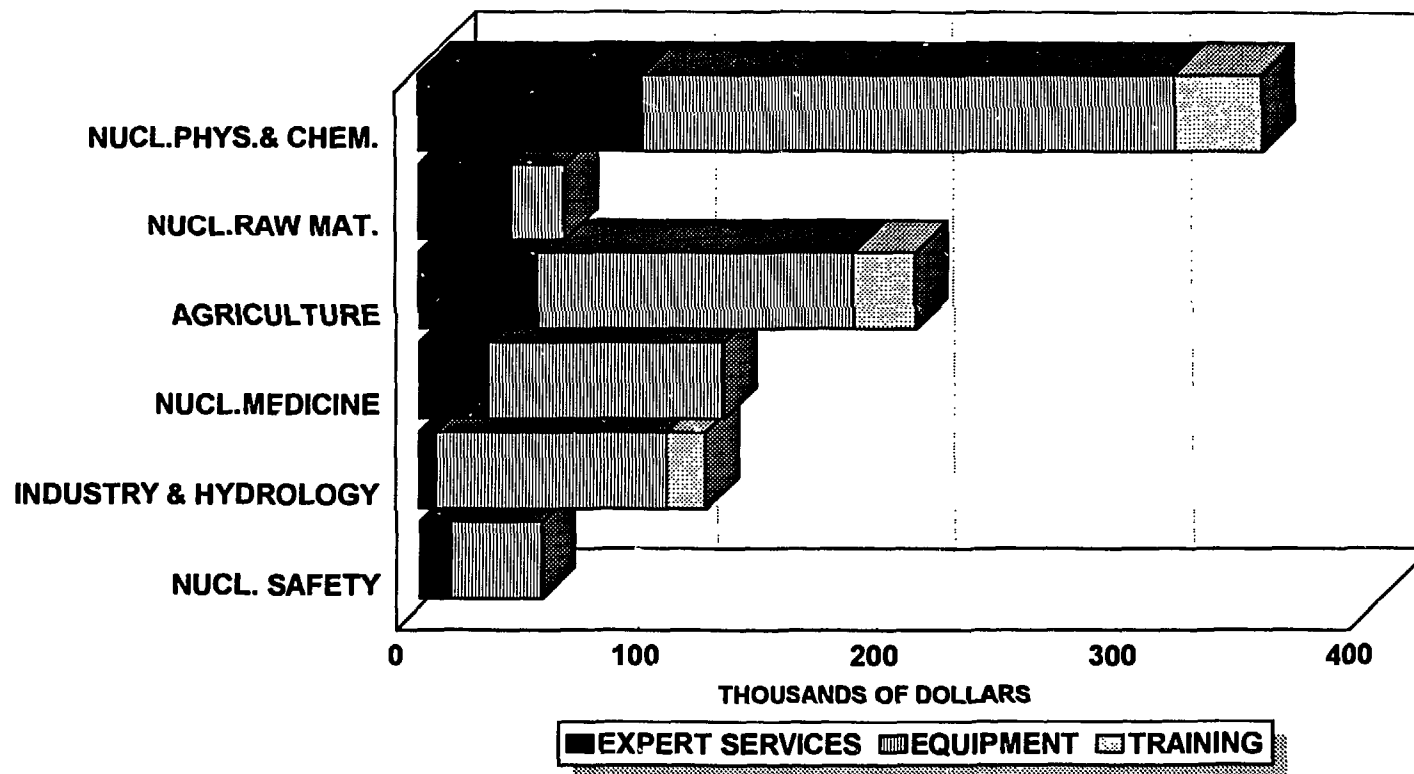
## TC PROJECT DISBURSEMENTS IN CAMEROON BY SECTOR (1982 - 1991)



## ASSISTANCE PROVIDED BY THE AGENCY TO CAMEROON BY TYPE (1982 -1991)



# EXPERT SERVICES, EQUIPMENT AND PROJECT-FUNDED TRAINING PROVIDED TO CAMEROON BY SECTOR (1982 - 1992)



THE AGENCY'S TECHNICAL CO-OPERATION PROGRAMME WITH CAMEROON

ALL SOURCES

CAMEROON'S RANKING AS A TC RECIPIENT  
1958 - 1991  
(in \$1000)

YEAR	RANKING	AMOUNT
1958-81	54 <sup>th</sup>	508.4
1982	72 <sup>nd</sup>	12.2
1983	74 <sup>th</sup>	8.0
1984	74 <sup>th</sup>	19.1
1985	72 <sup>nd</sup>	22.2
1986	79 <sup>th</sup>	6.9
1987	66 <sup>th</sup>	88.9
1988	63 <sup>rd</sup>	87.4
1989	59 <sup>th</sup>	145.5
1990	67 <sup>th</sup>	114.5
1991	44 <sup>th</sup>	265.3
1958-91	68 <sup>th</sup>	1278.4

**"TOP FIVE" RECIPIENTS OF AGENCY ASSISTANCE  
1958 - 1991 (in \$1000)**

**ALL SOURCES**

Year	I	II	III	IV	V	CAMEROON
1958-81	BRA 7907.9	IND 6670.7	ARG 5200.4	PAK 5091.2	CHI 5005.7	54 <sup>th</sup> - 508.4
1982	EGY 807.5	PER 746.4	CUB 715.7	COL 667.7	THA 654.3	72 <sup>nd</sup> - 12.2
1983	EGY 2077.9	PER 1116.8	VIE 948.1	PHI 778.6	IRA 722.1	74 <sup>th</sup> - 9.0
1984	EGY 3625.9	PER 1750.4	THA 1094.6	CUB 1028.7	PHI 881.2	74 <sup>th</sup> - 19.1
1985	EGY 2494.8	PER 1120.7	THA 1117.4	BGD 1068.2	PHI 963.7	72 <sup>nd</sup> - 22.2
1986	EGY 2317.0	BRA 1452.9	THA 1169.4	POL 1050.3	BGD 896.4	79 <sup>th</sup> - 6.9
1987	HUN 3452.6	EGY 1775.4	THA 1742.4	INS 1312.5	YUG 1223.2	66 <sup>th</sup> - 88.9
1988	EGY 1486.9	BUL 1361.6	CPR 1278.5	THA 1158.7	BRA 1096.7	63 <sup>rd</sup> - 87.4
1989	CPR 1542.3	EGY 1505.1	THA 1205.3	BRA 1096.5	INS 999.1	59 <sup>th</sup> - 145.5
1990	POL 2308.1	CPR 2005.0	VIE 1589.2	INS 1412.6	BRA 1229.1	67 <sup>th</sup> - 114.5
1991	INS 1305.2	CPR 975.0	EGY 959.8	BRA 951.2	BUL 934.7	44 <sup>th</sup> - 265.3
1958-91	EGY 22222.3	BRA 17021.1	THA 14596.1	PER 12631.1	INS 12383.8	68 <sup>th</sup> - 1278.4

**"TOP FIVE" RECIPIENTS OF AGENCY ASSISTANCE  
1958 - 1991 (in \$1000)**

**TECHNICAL ASSISTANCE AND CO-OPERATION FUND**

Year	I	II	III	IV	V	CAMEROON
1958-81	HUN 2533.0	PAK 2010.9	EGY 1898.7	THA 1712.8	BRA 1704.8	65 <sup>th</sup> - 181.9
1982	EGY 507.1	HUN 438.2	CUB 430.7	ECU 398.4	ZAM 354.9	72 <sup>nd</sup> - 12.2
1983	EGY 1049.4	VIE 897.4	POL 667.8	PAK 498.5	PHI 430.0	72 <sup>nd</sup> - 8.0
1984	EGY 1197.2	CUB 655.6	ECU 565.6	BGD 506.3	BUL 472.4	72 <sup>nd</sup> - 19.1
1985	BGD 991.8	VIE 745.0	THA 708.7	BRA 571.8	POR 538.7	70 <sup>th</sup> - 22.2
1986	BRA 1381.8	THA 871.9	POL 833.5	BGD 823.9	SYR 751.8	77 <sup>th</sup> - 6.9
1987	HUN 3305.2	DRK 986.8	BUL 888.5	INS 885.8	EGY 878.9	64 <sup>th</sup> - 88.9
1988	BUL 1195.6	PER 856.5	EGY 768.6	INS 751.7	MAL 656.0	65 <sup>th</sup> - 57.6
1989	EGY 990.9	CPR 868.2	POR 769.6	CHI 756.9	MAL 619.4	56 <sup>th</sup> - 122.6
1990	POL 1562.3	VIE 1518.8	DRK 1156.2	IRA 958.0	YUG 933.4	67 <sup>th</sup> - 89.1
1991	BUL 893.1	PAK 868.8	INS 855.1	VIE 817.6	CPR 814.5	40 <sup>th</sup> - 265.3
1958-91	EGY 9591.3	HUN 8256.5	POL 7793.5	BRA 7433.5	PAK 7346.0	70 <sup>th</sup> - 873.8

ASSISTANCE PROVIDED BY THE AGENCY TO CAMEROON

Financial Summary 1982 - 1991  
(In thousands of dollars)

Year	ASSISTANCE PROVIDED, BY TYPE						ASSISTANCE PROVIDED, BY SOURCE					
	Experts	Equipment	Fellowships	Group training	Sub-contracts	Total	UNDP	TACF CC	TACF NCC	Extra-budgetary	In-kind	Total
1982	2.5	9.7	-	-	-	12.2	-	12.2	-	-	-	12.2
1983	-	8.0	-	-	-	8.0	-	8.0	-	-	-	8.0
1984	16.5	2.6	-	-	-	19.1	-	19.1	-	-	-	19.1
1985	19.6	2.6	-	-	-	22.2	-	22.2	-	-	-	22.2
1986	6.3	0.6	-	-	-	6.9	-	6.9	-	-	-	6.9
1987	12.6	76.3	-	-	-	88.9	-	52.7	36.2	-	-	88.9
1988	53.5	32.5	1.4	-	-	87.4	-	57.6	-	29.8	-	87.4
1989	20.1	94.3	31.1	-	-	145.5	-	118.7	3.9	10.7	12.2	145.5
1990	22.7	58.1	33.7	-	-	114.5	-	89.1	-	25.4	-	114.5
1991	30.9	187.9	46.5	-	-	265.3	-	265.3	-	-	-	265.3
1982-91	184.7	472.6	112.7	-	-	770.0	-	651.8	40.1	65.9	12.2	770.0

TECHNICAL CO-OPERATION PROJECTS IN CAMEROON  
BY SECTOR

PROJECTS COMPLETED AND OPERATIONAL 1982 - 1992

TOTAL PROJECT ALLOTMENTS AND DISBURSEMENTS  
(as of mid-November 1992)

SECTOR	NO. OF PROJECTS	ALLOTMENTS \$	% OF TOTAL	DISBURSEMENTS \$	% OF TOTAL
General atomic energy development	-	-	-	-	-
Nuclear physics and chemistry	3	359 577	22.3	353 454	38.4
Nuclear raw materials	2	65 500	4.1	61 209	6.6
Nuclear engineering and technology	-	-	-	-	-
Nuclear techniques in agriculture	3	239 914	14.8	207 903	22.6
Nuclear medicine	2	672 900	41.6	126 493	13.8
Nuclear techniques in biology	-	-	-	-	-
Nuclear techniques in industry and hydrology	1	124 512	7.7	119 288	13.0
Nuclear safety	2	153 250	9.5	51 101	5.6
TOTAL	13	1 615 753	100.0	919 448	100.0



TECHNICAL CO-OPERATION PROJECTS IN CAMEROON  
 COMPLETED AND OPERATIONAL, BY SECTOR, 1982 - 1992  
 (As of mid-November 1992)

Sector	No. of projects	Total project allotments \$	Total project disbursements \$
<u>Completed projects</u>			
General atomic energy development	-	-	-
Nuclear physics and chemistry	-	-	-
Nuclear raw materials	2	65 600	61 209
Nuclear engineering and technology	-	-	-
Nuclear techniques in agriculture	1	21 150	8 186
Nuclear medicine	-	-	-
Nuclear techniques in biology	-	-	-
Nuclear techniques in industry & hydrology	-	-	-
Nuclear safety	1	7 200	5 163
TOTAL	4	93 950	74 558
<u>Operational projects</u>			
General atomic energy development	-	-	-
Nuclear physics and chemistry	3	359 577	353 454
Nuclear raw materials	-	-	-
Nuclear engineering and technology	-	-	-
Nuclear techniques in agriculture	2	218 764	199 717
Nuclear medicine	2	672 900	126 493
Nuclear techniques in biology	-	-	-
Nuclear techniques in industry & hydrology	1	124 512	119 288
Nuclear safety	1	146 050	45 938
TOTAL	9	1 521 803	844 890

EXPERT SERVICES, EQUIPMENT AND PROJECT-FUNDED TRAINING PROVIDED TO CAMEROON, BY SECTOR  
 PROJECTS COMPLETED AND OPERATIONAL 1962 - 1992  
 (As of mid-November 1992)

FIELD	TOTAL PROJECT ALLOTMENTS				TOTAL PROJECT DISBURSEMENTS			
	EXPERT SERVICES		EQUIPMENT	TRAINING	EXPERT SERVICES		EQUIPMENT	TRAINING
	M/M	\$	\$	\$	M/M	\$	\$	\$
General atomic energy development	-	-	-	-	-	-	-	-
Nuclear physics and chemistry	10/04	94 428	227 340	37 809	7/19	93 484	223 347	36 623
Nuclear raw materials	7/00	42 600	23 000	-	6/12	38 477	22 732	-
Nuclear engineering and technology	-	-	-	-	-	-	-	-
Nuclear techniques in agriculture	6/18	54 090	142 720	43 104	4/07	49 599	132 168	26 136
Nuclear medicine	12/00	115 200	537 000	20 700	3/11	28 455	98 038	-
Nuclear techniques in biology	-	-	-	-	-	-	-	-
Nuclear techniques in industry & hydrology	1/09	10 620	96 783	17 109	1/09	7 022	96 030	16 236
Nuclear safety	3/00	25 350	100 000	27 900	1/17	12 913	38 188	-
TOTAL	40/01	342 288	1 126 843	146 622	24/15	229 950	610 503	78 995

AGENCY FELLOWS FROM CAMEROON

1982 - 1992<sup>1</sup>  
(As of mid-November 1992)

Sector	No. of fellowships	No. of months/days	Host countries
General atomic energy development	-	-	-
Nuclear physics	-	-	-
Nuclear chemistry	-	-	-
Nuclear raw materials	-	-	-
Nuclear engineering and technology	-	-	-
Nuclear techniques in agriculture	5	23/13	BEL, CAN, FRA, IVC, IAEA
Nuclear medicine	-	-	-
Nuclear techniques in biology	2	12/14	UK
Nuclear techniques in industry and hydrology	3	11/07	FRA
Nuclear safety	1	6/00	CAN
TOTAL	11	53/04	

<sup>1</sup>/ Only includes fellows who have completed or at least started training.

CAMEROON  
FELLOWSHIPS 12 M/M AND LONGER  
1982 - 1992  
(As of mid-November 1992)

Name	Field of study	Host country	Date	Duration	Project
FOBA	Soil science	BEL	Sep.91 - Aug.92	12/00	CHR/5/004

**CAMEROONIAN NATIONALS WHO WERE AWARDED MORE THAN ONE  
FELLOWSHIP OR SCIENTIFIC VISIT  
1982 - 1992  
(As of mid-November 1992)**

NONE

AGENCY TRAINING COURSES WITH CAMEROONIAN PARTICIPATION

1982 - 1992  
(As of mid-November 1992)

Field	Number of participants	Number of courses
General atomic energy development	4	4
Nuclear physics	1	1
Nuclear chemistry	-	-
Nuclear raw materials	4	4
Nuclear engineering and technology	3	3
Nuclear techniques in agriculture	7	7
Nuclear medicine	4	4
Nuclear techniques in biology	-	-
Nuclear techniques in industry & hydrology	7	4
Nuclear safety	8	7
TOTAL	38	34

**MULTIPLE PARTICIPATION IN AGENCY TRAINING COURSES  
BY CAMEROONIAN NATIONALS  
1982 - 1992  
(As of mid-November 1992)**

Name	Course No.	Course title	Year	Location
BEDIMO	RAF/8/012 (003)	RWS on hydrosedimentology	1990	MLI
	RAF/8/012 (004)	RWS on isotope hydrology and sedimentology	1991	MLI
MANGUELLE-DICOM BIYONG	INT/9/077 (001)	ITC for radiation protection officers in regulatory bodies	1987	GDR
	RAF/6/004 (001)	RTC on radioimmunoassay	1990	ETH
	RAF/6/007 (002)	RTC on bulk reagent methodology, reagent preparation and quality control for radioimmunoassay of thyroid-related hormones	1992	TUN
NAAH	RAF/8/012 (003)	RWS on hydrosedimentology	1990	MLI
	RAF/8/012 (005)	RWS on the study of non-saturated zones	1991	SEN
SIMO	INT/0/039 (001)	IWS on IAEA technical co-operation practices and procedures	1984	SUD
	INT/9/074 (001)	ITC on radiation protection	1987	FRA
	INT/9/099 (001)	ITC on management of radioactive wastes with regard to radioisotope applications	1989	GER
TAKOUDJOU	RAF/0/005 (001)	Regional seminar on nuclear science for peace and development	UGA	1990
	RAF/0/006 (001)	RTC on design, management and evaluation techniques of IAEA technical co-operation projects	GHA	1991
	RAF/5/012 (001)	RTC on the use of isotopes and radiation techniques in studies of biological nitrogen fixation and soil/plant nutrition	GHA	1988

PROJECTS COMPLETED IN CAMEROON SINCE 1982  
(As of mid-November 1992)

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS				COMPLETED
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING	
			M/M	\$	\$	\$	M/M	\$	\$	\$	
1982	CMR/3/005	Raw materials analysis	1/00	5 400	17 000	-	0/10	2 374	17 533	-	1983
1983	CHR/3/006	Nuclear analytical laboratory	6/00	37 200	6 000	-	6/02	36 103	5 199	-	1985
1987	CHR/5/005	Improvement of rubber tree (hevea) productivity	1/00	7 050	-	14 100	0/04	2 066	-	6 120	1992
1988	CHR/9/002	Radioactive waste management	1/00	7 200	-	-	0/09	5 163	-	-	1989
	TOTAL	4 projects	9/00	56 850	23 000	14 100	6/25	45 706	22 732	6 120	



OPERATIONAL PROJECTS IN CAMEROON  
(As of mid-November 1992)

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS			
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING
			M/M	\$	\$	\$	M/M	\$	\$	\$
1987	CMR/1/002	Nuclear analytical laboratory	3/09	41 723	40 451	-	2/09	31 239	42 799	-
1987	CMR/1/003	Training in nuclear physics	4/10	31 030	105 439	109	4/12	48 561	104 455	109
1989	CMR/2/002	Isotope techniques in human nutrition studies	2/15	21 675	81 450	37 700	0/28	13 684	76 093	36 514
1986	CMR/5/004	Establishment of an agricultural laboratory	2/18	19 140	97 720	29 004	2/07	27 646	92 161	20 016
1991	CMR/5/006	Nuclear techniques in animal diseases	3/00	27 900	45 000	-	1/26	19 887	40 007	-
1991	CMR/6/002	Intracavitary radiation therapy for cancer	5/00	46 950	477 000	-	1/13	9 079	70 345	-
1991	CMR/6/003	Radioimmunoassay laboratory	7/00	68 250	60 000	20 700	1/28	19 376	27 693	-
1989	CMR/8/002	Isotope techniques in hydrology	1/09	10 620	96 783	17 109	1/09	7 022	96 030	16 236
1991	CMR/9/003	Radiation protection	2/00	18 150	100 000	27 900	1/08	7 750	38 188	-
	TOTAL	9 projects	31/01	285 438	1 103 843	132 522	17/20	184 244	587 771	72 875

**COUNTERPART INSTITUTIONS IN CAMEROON (I)**

(By Project)

<u>Project No.</u>	<u>Institute</u>	<u>Counterpart(s)</u>
<u>NUCLEAR PHYSICS AND CHEMISTRY</u>		
CMR/1/002	Institute of Geological and Mining Research, Laboratory for Energy Research, Yaoundé	TAKOUDJOU
CMR/1/003	University of Yaoundé, Faculty of Sciences, Department of Physics, Yaoundé	OWONO
CMR/2/002	Nutrition Centre, Institute of Medical Research and Studies of Medical Plants, Yaoundé	BELL
<u>NUCLEAR RAW MATERIALS</u>		
CMR/3/005	Institute of Geological and Mining Research, Yaoundé	DJAPA NGASSAM
CMR/3/006	Institute of Geological and Mining Research, Laboratory for Energy Research, Yaoundé	MABOUKA EKOUE
<u>AGRICULTURE</u>		
CMR/5/004	Institute of Geological and Mining Research, Laboratory for Energy Research, Yaoundé	TAKOUDJOU
CMR/5/005	Research Institute of Agronomy, Centre of Ekona, Buea	LYONGA ROUSSEL
CMR/5/006	National Veterinary Laboratory, Department of Virology, Garoua	ZOYEM

**COUNTERPART INSTITUTIONS IN CAMEROON (I)**  
(By Project)

<u>Project No.</u>	<u>Institute</u>	<u>Counterpart(s)</u>
<u>NUCLEAR MEDICINE</u>		
CMR/6/002	1. General Reference Hospital, Douala	MOUELE SONE
	2. General Reference Hospital, Yaoundé	YOMI
CMR/6/003	Yaoundé General Hospital, Nuclear Medicine Unit, Yaoundé	DONG
<u>NUCLEAR TECHNIQUES IN HYDROLOGY</u>		
CMR/8/002	Institute of Geological and Mining Research, Centre of Hydrological Research, Yaoundé	NAAH
<u>NUCLEAR SAFETY</u>		
CMR/9/002	Institute of Geological and Mining Research, Laboratory for Energy Research, Yaoundé	SIMO
CMR/9/003	Ministry of Education, Information and Research, Centre for Application of Nuclear Techniques, Yaoundé	TAKOUDJOU

**COUNTERPART INSTITUTIONS IN CAMEROON (II)**  
(By Institute)

**YAOUNDE**

**Institute of Geological and Mining Research  
Yaoundé**

CMR/3/005 Raw Materials Analysis

**Institute of Geological and Mining Research  
Laboratory for Energy Research  
Yaoundé**

CMR/1/002 Nuclear Analytical Laboratory  
CMR/3/006 Nuclear Analytical Laboratory  
CMR/5/004 Establishment of an Agricultural Laboratory  
CMR/9/002 Radioactive Waste Management

**Institute of Geological and Mining Research  
Centre of Hydrological Research  
Yaoundé**

CMR/8/002 Isotope Techniques in Hydrology

**Ministry of Education, Information and Research  
Centre for Application of Nuclear Techniques  
Yaoundé**

CMR/9/003 Radiation Protection

**University of Yaoundé  
Faculty of Sciences  
Department of Physics  
Yaoundé**

CMR/1/003 Training in Nuclear Physics

**Nutrition Centre  
Institute of Medical Research and Studies of Medical Plants  
Yaoundé**

CMR/2/002 Isotope Techniques in Human Nutrition Studies

**COUNTERPART INSTITUTIONS IN CAMEROON (II)**  
(By Institute)

**YAOUNDE (cont'd)**

**Yaoundé General Hospital  
Nuclear Medicine Unit  
Yaoundé**

CMR/6/003 Radioimmunoassay Laboratory

**General Reference Hospital  
Yaoundé**

CMR/6/002 Intracavitary Radiation Therapy for Cancer

**BUEA**

**Research Institute of Agronomy  
Centre of Ekona  
Buea**

CMR/5/005 Improvement of Rubber Tree (hevea) Productivity

**GAROUA**

**National Veterinary Laboratory  
Department of Virology  
Garoua**

CMR/5/006 Nuclear Techniques in Animal Diseases

**DOUALA**

**General Reference Hospital  
Douala**

CMR/6/002 Intracavitary Radiation Treatment for Cancer

**THE AGENCY'S TECHNICAL CO-OPERATION PROGRAMME WITH CAMEROON**

**LONG-TERM EXPERT ASSIGNMENTS  
(1982 - 1992)**

NONE

**RESEARCH CONTRACTS/AGREEMENTS IN CAMEROON SINCE 1982 <sup>1</sup>**  
**(As of mid-November 1992)**

Field of activity	No. of contracts/ agreements	Amount allocated \$
Nuclear techniques in agriculture	2	14 000
Nuclear medicine	2	36 000
TOTAL	4	50 000

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<sup>1</sup> New awards since 1982

**SCIENTISTS FROM CAMEROON SERVING AS AGENCY  
TECHNICAL CO-OPERATION EXPERTS OR  
TRAINING COURSE LECTURERS  
1982 - 1992  
(As of mid-November 1992)**

NONE



**AGENCY FELLOWSHIPS AND SCIENTIFIC VISITS  
HOSTED BY CAMEROON  
1982 - 1992  
(As of mid-November 1992)**

NONE

**REGIONAL AND INTERREGIONAL TRAINING EVENTS  
HOSTED BY CAMEROON  
1982 - 1992  
(As of mid-November 1992)**

Course No.	Course Title	Participants	Year
RAF/5/006 (001)	RWS on the establishment and use of a monoclonal antibody-based competitive ELISA system for the sero-monitoring of rinderpest	12	1991