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**INTERNATIONAL ATOMIC ENERGY AGENCY**

IAEA-CPS-92/23  
20 November 1992  
Original: ENGLISH

## **COUNTRY PROGRAMME SUMMARY**

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

**PROGRAMME WITH**

**UGANDA**

**1982 - 1992**

**COUNTRY PROGRAMME SUMMARIES**

**DEPARTMENT OF TECHNICAL CO-OPERATION**

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## COUNTRY PROGRAMME SUMMARY

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UGANDA  
1982 - 1992  
COUNTRY PROGRAMME SUMMARIES

EVALUATION SECTION

DEPARTMENT OF TECHNICAL CO-OPERATION

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

This report contains a review of the Agency's technical co-operation activities in Uganda 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.

**UGANDA**

INTRODUCTION	i
Assistance by Source	1
TACF Assistance	2
In Kind Assistance	3
TC Project Disbursements by Sector	4
Assistance by Type	5
Assistance by Component/Sector	6
Uganda's Ranking as TC Recipient	7
Top Five Recipients	8-9
Financial Summary of Assistance	10
Projects by Sector (Allotments/Disbursements)	11
Projects by Sector (Completed & Operational)	12
TC Project Components by Sector	13
Agency Fellows	14
Fellowships Longer than 12 M/M	15
Fellows Holding More than One Award	16
Training Course Participants	17
Multiple Participants in Training Courses	18
Projects Completed	19
Operational Projects	20
Counterpart Institutions (by Project)	21-22
Counterpart Institutions (by Institute)	23-24
Long-Term Assignments	25
Research Contracts/Agreements	26
Ugandan Experts or Lecturers	27
Fellowships and Scientific Visits Hosted	28
Regional/Interregional Courses Hosted	29

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A  
B  
L  
E  
O  
F  
C  
O  
N  
T  
E  
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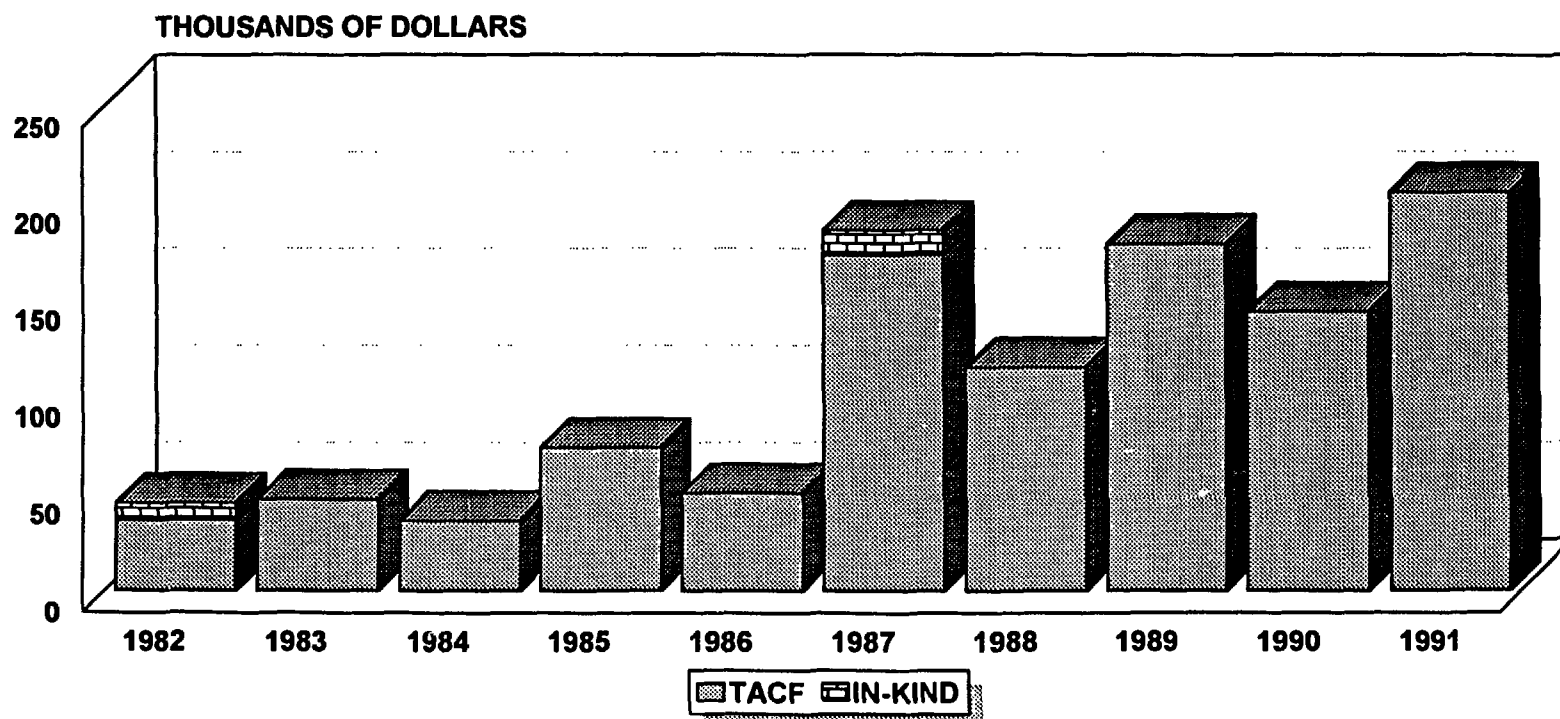
## INTRODUCTION

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 \$1.6 million of Agency support received, Uganda ranks 61<sup>st</sup> among all recipients of technical assistance in the period 1958 through 1991.

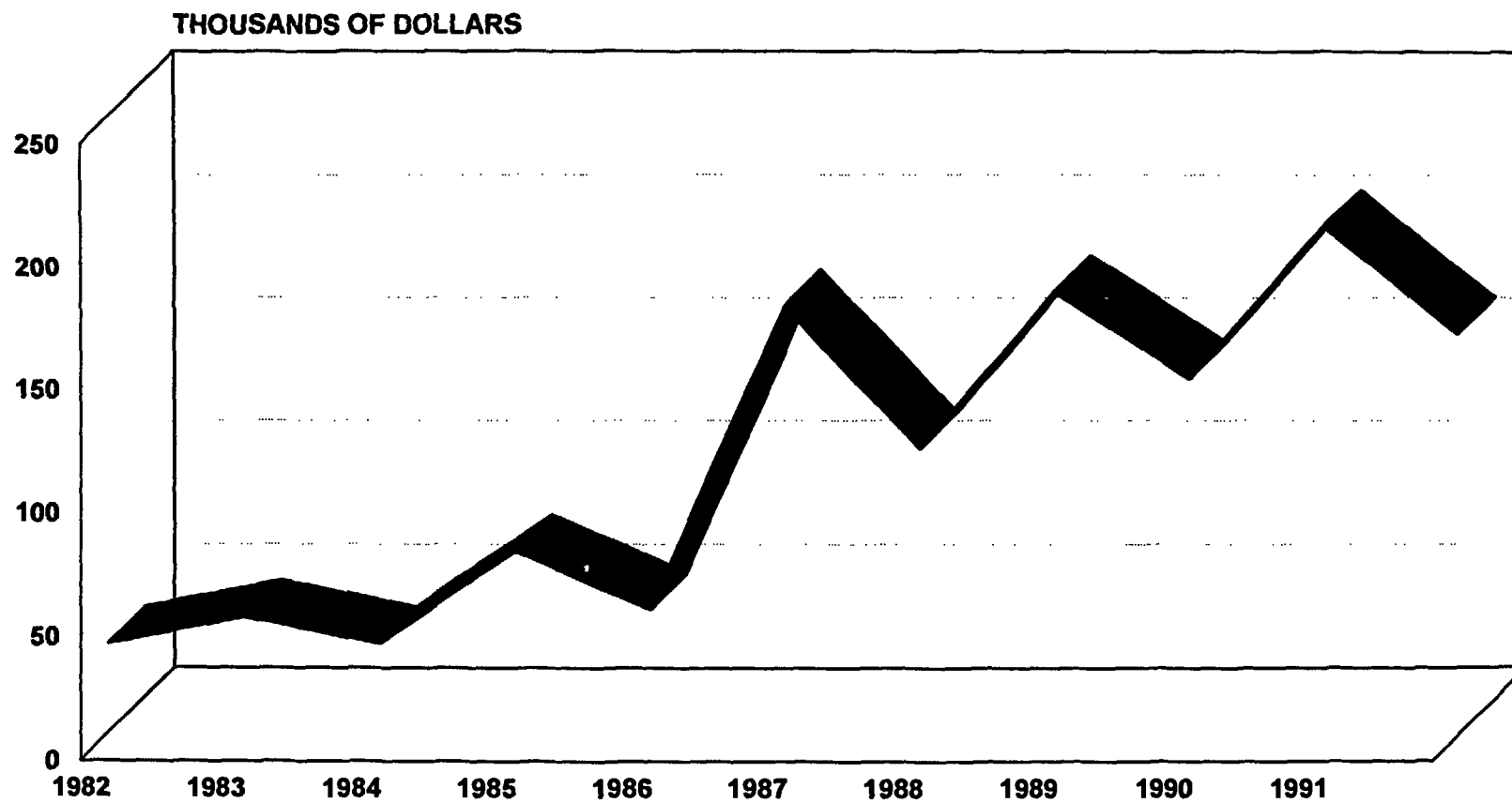
Almost half of the assistance received during the past ten years has been provided in the form of equipment (47%), complemented by a strong training component (37%), while expert services have received only a relatively small share (16%). Ninety-eight per cent of the resources were provided by the Technical Assistance and Co-operation Fund, the remaining two per cent were made available through assistance in kind.

During the past ten years, project activities -- and disbursements -- have concentrated exclusively on three major areas: agriculture (64%), nuclear medicine (24%) and nuclear safety (12%).

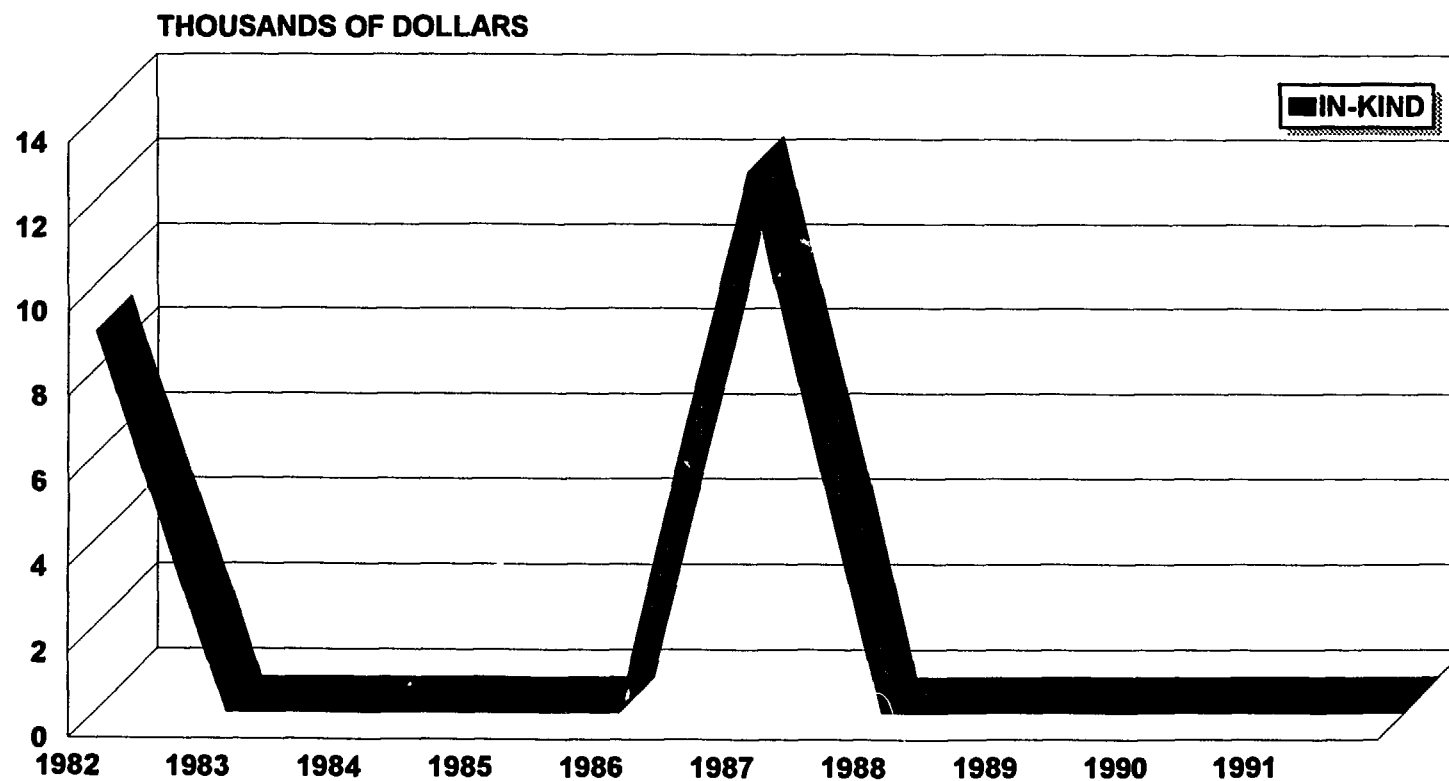
## ASSISTANCE PROVIDED BY THE AGENCY TO UGANDA BY SOURCE (1982 - 1991)



# TACF ASSISTANCE PROVIDED TO UGANDA (1982 - 1991)

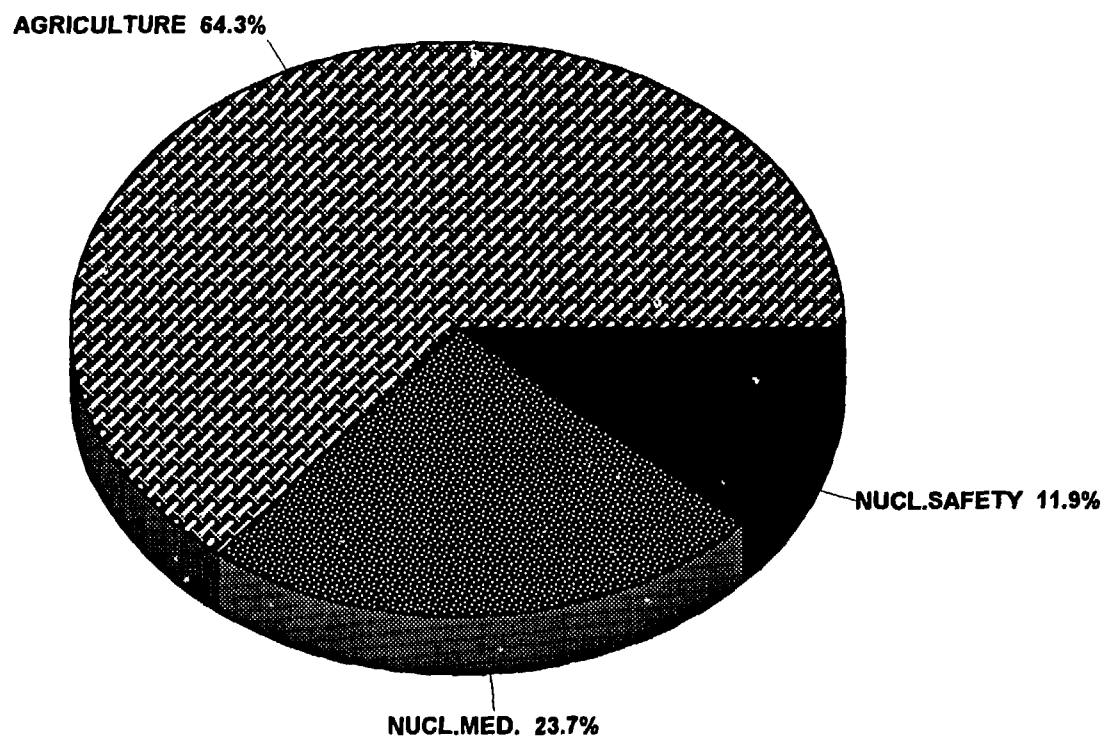


## IN-KIND ASSISTANCE PROVIDED TO UGANDA (1982 - 1991)

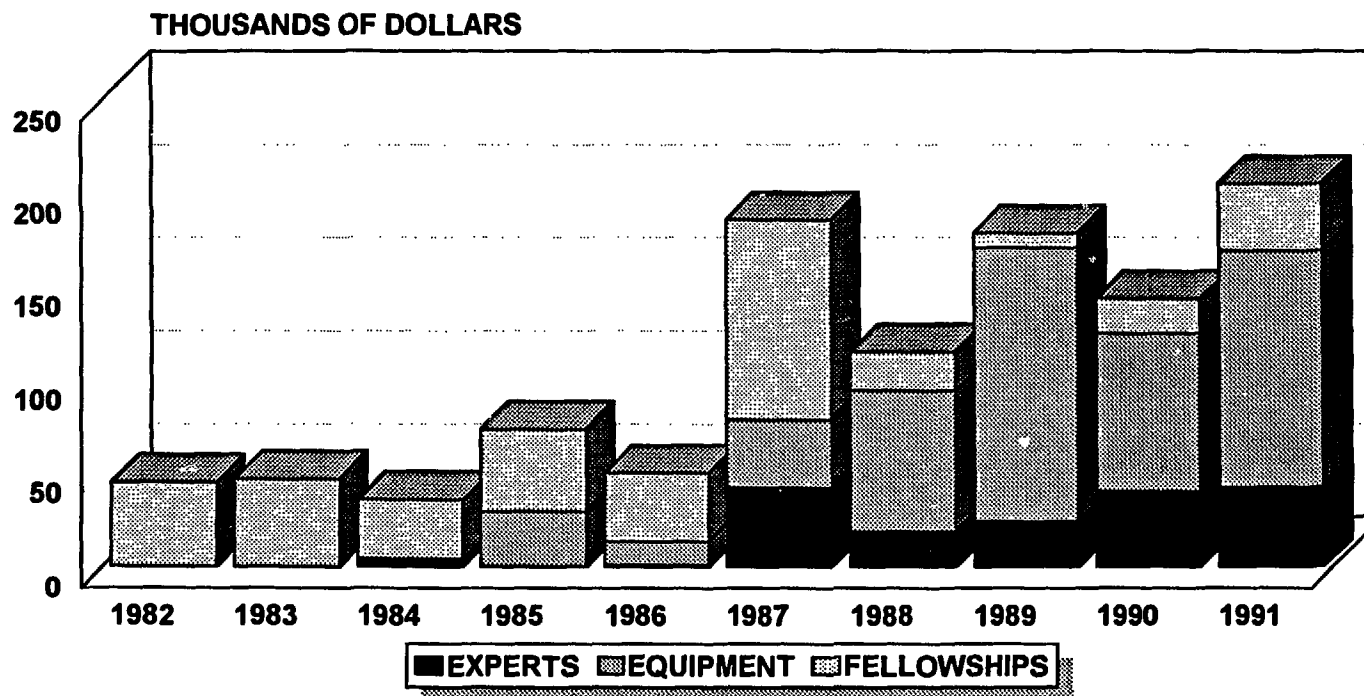




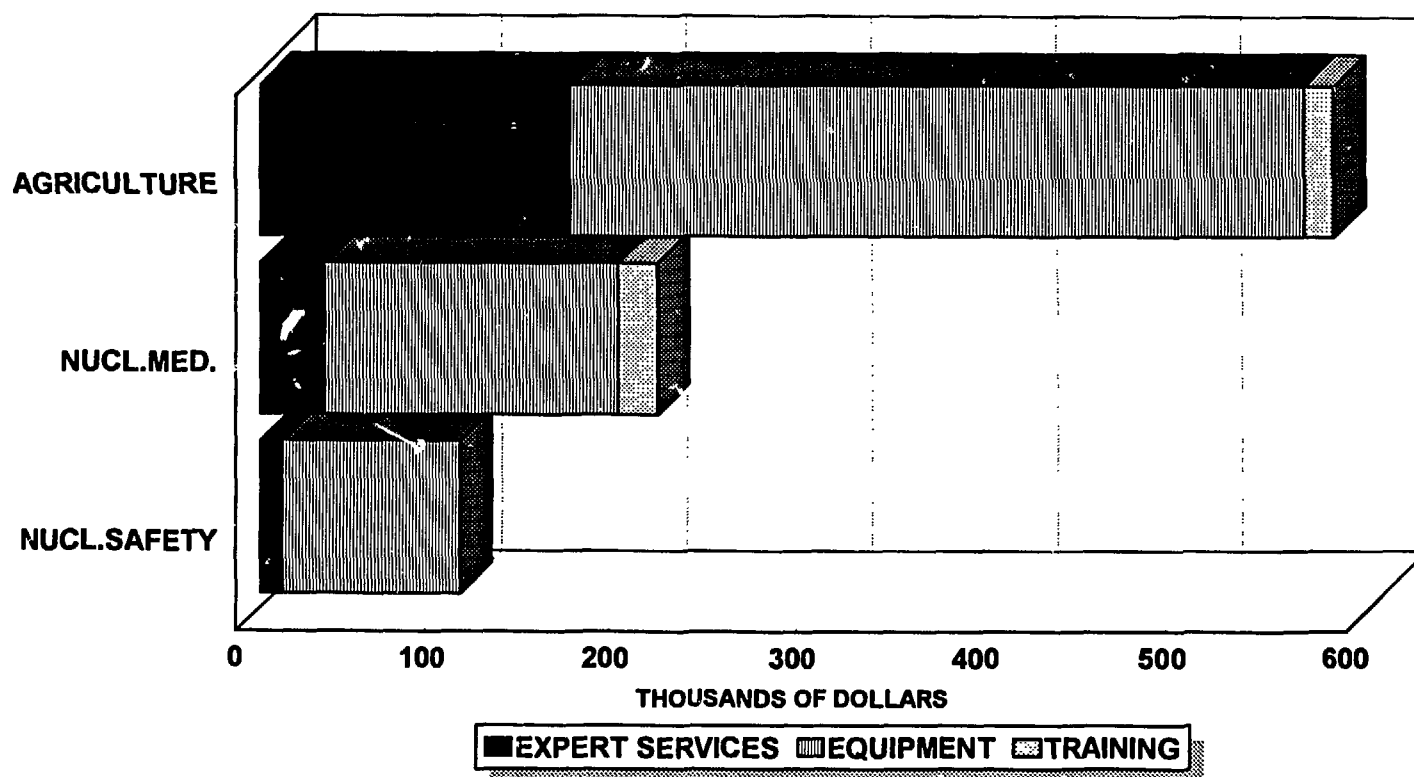
## TC PROJECT DISBURSEMENTS IN UGANDA BY SECTOR (1982 - 1992)



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



## EXPERT SERVICES, EQUIPMENT AND PROJECT-FUNDED TRAINING PROVIDED TO UGANDA BY SECTOR (1982 - 1991)



THE AGENCY'S TECHNICAL CO-OPERATION PROGRAMME WITH UGANDA

ALL SOURCES

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

YEAR	RANKING	AMOUNT
1958-81	53 <sup>rd</sup>	525.7
1982	61 <sup>st</sup>	44.9
1983	68 <sup>th</sup>	46.6
1984	70 <sup>th</sup>	35.9
1985	65 <sup>th</sup>	73.3
1986	67 <sup>th</sup>	49.9
1987	51 <sup>st</sup>	185.2
1988	59 <sup>th</sup>	114.7
1989	53 <sup>rd</sup>	178.3
1990	62 <sup>nd</sup>	143.3
1991	55 <sup>th</sup>	205.1
1958-91	61 <sup>st</sup>	1602.9

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

ALL SOURCES

Year	I	II	III	IV	V	UGANDA
1958-81	BRA 7907.9	IND 6670.7	ARG 5200.4	PAK 5091.2	CHI 5005.7	53 <sup>rd</sup> - 525.7
1982	EGY 807.5	PER 746.4	CUB 715.7	COL 667.7	THA 654.3	61 <sup>st</sup> - 44.9
1983	EGY 2077.9	PER 1116.8	VIE 948.1	PHI 778.6	IRA 722.1	68 <sup>th</sup> - 46.6
1984	EGY 3625.9	PER 1750.4	THA 1094.6	CUB 1028.7	PHI 881.2	70 <sup>th</sup> - 35.9
1985	EGY 2494.8	PER 1120.7	THA 1117.4	BGD 1068.2	PHI 963.7	65 <sup>th</sup> - 73.3
1986	EGY 2317.0	BRA 1452.9	THA 1169.4	POL 1050.3	BGD 896.4	67 <sup>th</sup> - 49.9
1987	HUN 3452.6	EGY 1775.4	THA 1742.4	INS 1312.5	YUG 1223.2	51 <sup>st</sup> - 185.2
1988	EGY 1486.9	BUL 1361.6	CPR 1278.5	THA 1158.7	BRA 1096.7	59 <sup>th</sup> - 114.7
1989	CPR 1542.3	EGY 1505.1	THA 1205.3	BRA 1096.5	INS 999.1	53 <sup>rd</sup> - 178.3
1990	POL 2308.1	CPR 2005.0	VIE 1589.2	INS 1412.6	BRA 1229.1	62 <sup>nd</sup> - 143.3
1991	INS 1305.2	CPR 975.0	EGY 959.8	BRA 951.2	BUL 934.7	55 <sup>th</sup> - 205.1
1958-91	EGY 22222.3	BRA 17021.1	THA 14596.1	PER 12631.1	INS 12383.8	61 <sup>st</sup> - 1602.9

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

TECHNICAL ASSISTANCE AND CO-OPERATION FUND

Year	I	II	III	IV	V	UGANDA
1958-81	HUN 2533.0	PAK 2010.9	EGY 1898.7	THA 1712.8	BRA 1704.8	53 <sup>rd</sup> - 361.1
1982	EGY 507.1	HUN 438.2	CUB 430.7	ECU 398.4	ZAM 354.9	59 <sup>th</sup> - 36.0
1983	EGY 1049.4	VIE 897.4	POL 667.8	PAK 498.5	PHI 430.0	62 <sup>nd</sup> - 46.6
1984	EGY 1197.2	CUB 655.6	ECU 565.6	BGD 506.3	BUL 472.4	68 <sup>th</sup> - 35.9
1985	BGD 991.8	VIE 745.0	THA 708.7	BRA 571.8	POR 538.7	62 <sup>nd</sup> - 73.3
1986	BRA 1381.8	THA 871.9	POL 833.5	BGD 823.9	SYR 751.8	66 <sup>th</sup> - 49.9
1987	HUN 3305.2	DRK 986.8	BUL 888.5	INS 885.8	EGY 878.9	49 <sup>th</sup> - 172.5
1988	BUL 1195.6	PER 856.5	EGY 768.6	INS 751.7	MAL 656.0	55 <sup>th</sup> - 114.7
1989	EGY 990.9	CPR 868.2	POR 769.6	CHI 756.9	MAL 619.4	49 <sup>th</sup> - 178.3
1990	POL 1562.3	VIE 1518.8	DRK 1156.2	IRA 958.0	YUG 933.4	59 <sup>th</sup> - 143.3
1991	BUL 893.1	PAK 868.8	INS 855.1	VIE 817.6	CPR 814.5	48 <sup>th</sup> - 205.1
1958-91	EGY 9591.3	HUN 8256.5	POL 7793.5	BRA 7433.5	PAK 7346.0	61 <sup>st</sup> - 1416.7

ASSISTANCE PROVIDED BY THE AGENCY TO UGANDA

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	-	-	44.9	-	-	44.9	-	36.0	-	-	8.9	44.9
1983	-	-	46.6	-	-	46.6	-	46.6	-	-	-	46.6
1984	3.4	0.9	31.6	-	-	35.9	-	35.9	-	-	-	35.9
1985	-	29.3	44.0	-	-	73.3	-	70.2	3.1	-	-	73.3
1986	0.9	12.5	36.5	-	-	49.9	-	41.2	8.7	-	-	49.9
1987	42.0	36.5	106.7	-	-	185.2	-	155.1	17.4	-	12.7	185.2
1988	18.9	75.1	20.7	-	-	114.7	-	114.7	-	-	-	114.7
1989	24.2	146.3	7.8	-	-	178.3	-	176.9	1.4	-	-	178.3
1990	40.3	84.3	18.7	-	-	143.3	-	142.2	1.1	-	-	143.3
1991	42.3	126.7	36.1	-	-	205.1	-	205.1	-	-	-	205.1
1982-91	172.0	511.6	393.6	-	-	1 077.2	-	1 023.9	31.7	-	21.6	1 077.2

TECHNICAL CO-OPERATION PROJECTS IN UGANDA  
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	-	-	-	-	-
Nuclear raw materials	-	-	-	-	-
Nuclear engineering and technology	-	-	-	-	-
Nuclear techniques in agriculture	6	718 801	46.8	580 783	64.4
Nuclear medicine	4	703 411	45.7	214 304	23.7
Nuclear techniques in biology	-	-	-	-	-
Nuclear techniques in industry and hydrology	-	-	-	-	-
Nuclear safety	1	115 300	7.5	107 480	11.9
TOTAL	11	1 537 512	100.0	902 567	100.0



TECHNICAL CO-OPERATION PROJECTS IN UGANDA  
 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	-	-	-
Nuclear engineering and technology	-	-	-
Nuclear techniques in agriculture	2	118 776	132 893
Nuclear medicine	1	16 200	2 510
Nuclear techniques in biology	-	-	-
Nuclear techniques in industry & hydrology	-	-	-
Nuclear safety	-	-	-
TOTAL	3	134 976	135 403
<u>Operational projects</u>			
General atomic energy development	-	-	-
Nuclear physics and chemistry	-	-	-
Nuclear raw materials	-	-	-
Nuclear engineering and technology	-	-	-
Nuclear techniques in agriculture	4	600 025	447 890
Nuclear medicine	3	687 211	211 794
Nuclear techniques in biology	-	-	-
Nuclear techniques in industry & hydrology	-	-	-
Nuclear safety	1	115 300	107 480
TOTAL	8	1 402 536	767 164

EXPERT SERVICES, EQUIPMENT AND PROJECT-FUNDED TRAINING PROVIDED TO UGANDA, BY SECTOR  
 PROJECTS COMPLETED AND OPERATIONAL 1982 - 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	-	-	-	-	-	-	-	-
Nuclear raw materials	-	-	-	-	-	-	-	-
Nuclear engineering and technology	-	-	-	-	-	-	-	-
Nuclear techniques in agriculture	20/00	162 535	495 966	60 300	16/14	167 986	396 707	16 090
Nuclear medicine	15/03	136 685	378 426	188 300	4/02	34 742	158 559	21 003
Nuclear techniques in biology	-	-	-	-	-	-	-	-
Nuclear techniques in industry & hydrology	-	-	-	-	-	-	-	-
Nuclear safety	2/00	15 300	100 000	-	1/06	11 469	96 011	-
TOTAL	37/03	314 520	974 392	248 600	21/22	214 197	651 277	37 093

AGENCY FELLOWS FROM UGANDA

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	1	15/02	UK
Nuclear chemistry	-	-	-
Nuclear raw materials	-	-	-
Nuclear engineering and technology	-	-	-
Nuclear techniques in agriculture	20	122/25	USA, CAN, SWE, NIR, ZIM, POL, HUN, POR, BEL, UK, IAEA
Nuclear medicine	7	70/05	EGY, RUS, UK
Nuclear techniques in biology	1	6/02	UK
Nuclear techniques in industry and hydrology	-	-	-
Nuclear safety	3	28/15	AUS, UK
TOTAL	32	242/19	

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

UGANDA  
 FELLOWSHIPS LONGER THAN 12 M/M  
 1982 - 1992  
 (As of mid-November 1992)

Name	Field of study	Host country	Date	Duration	Project
ODER	Analytical nuclear physics	UK	Oct.84 - Jan.86	15/02	-
ASEA	Soil science	CAN	Jun.82 - Nov.84	29/00	-
KHIZZAH	Plant breeding	USA	May 87 - Jul.88	14/15	-
KOBUSINGYE	Animal reproduction	USA	Mar.85 - Dec.86	22/00	UGA/5/009
DDUNGU MATOVU	Biophysics	UK	Oct.86 - Oct.87	12/21	-
KIGULA-MUGAMBE	Radiotherapy	EGY	Started: Oct.91	26/16	UGA/6/007
KISOLO	Medical physics	UK	Oct.83 - Jan.85	15/00	-
NAMUGOMA	Biophysics	UK	Oct.86 - Oct.87	12/21	-
BWIRE BASHABE	Radiation protection	UK	Oct.82 - Dec.83	14/18	-
LUBANGA	Radiation biophysics	UK	Oct.86 - Oct.87	12/21	-

UGANDAN NATIONALS WHO WERE AWARDED MORE THAN ONE  
 FELLOWSHIP OR SCIENTIFIC VISIT  
 1962 - 1992  
 (As of mid-November 1992)

Name	Field of study	Host country	Date	Duration	Project
EPELU-OPIO	1. Animal reproduction 2. Animal reproduction	SWE UK IAEA	Jan.85 - Jun.85 Jan.69 - Feb.89	4/09 0/26	- RAF/0/003

AGENCY TRAINING COURSES WITH UGANDAN PARTICIPATION

1982 - 1992  
(As of mid-November 1992)

Field	Number of participants	Number of courses
General atomic energy development	3	3
Nuclear physics	5	2
Nuclear chemistry	-	-
Nuclear raw materials	1	1
Nuclear engineering and technology	-	-
Nuclear techniques in agriculture	30	27
Nuclear medicine	8	7
Nuclear techniques in biology	-	-
Nuclear techniques in industry & hydrology	2	2
Nuclear safety	10	8
TOTAL	59	50

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

Name	Course No.	Course title	Year	Location
ILUKOR	RAF/8/015 (001)	RWS on X-ray fluorescence laboratory network in Africa	1992	KEN
	RAF/9/005 (002)	Meeting on regional co-operation in radiation protection in Africa	1989	URT
	RAF/9/005 (004)	RWS on basic radiation and development of national infrastructure for radiation safety	1990	NIR
	RAF/9/005 (007)	RWS on emergency planning, preparedness and international co-operation	1991	AUS
	RAF/9/005 (008)	Regional meeting on co-operation in radiation protection in Africa	1992	URT
KISOLO	RAF/9/005 (004)	RWS on basic radiation and development of national infrastructure for radiation safety	1990	NIR
	RAF/9/006 (001)	RTC on management of spent sealed radiation sources	1991	KEN
TWINAMASIKO	RAF/5/006 (001)	RWS on the establishment and use of monoclonal antibody-based competitive ELISA system for the sero-monitoring of rinderpest	1991	ETH
	RAF/5/011 (002)	RTC on the diagnosis of rinderpest	1988	ETH
WALUMBE	INT/6/025 (001)	ITC and study tour on the application of nuclear methods in medicine	1982	USSR
	RAF/6/006 (001)	Regional co-ordinators' meeting on radioimmunoassay of thyroid-related hormones	1991	URT
	RAF/6/007 (003)	RTC on data processing in radioimmunoassay	1992	ALG

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

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS				COMPLETED
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING	
			M/M	\$	\$	\$	M/M	\$	\$	\$	
1984	UGA/5/009	Animal science	3/17	24 960	86 916	-	3/19	31 571	89 238	-	1988
1986	UGA/5/010	Eradication of tsetse fly	1/00	6 900	-	-	1/12	12 084	-	-	1989
1983	UGA/6/005	Radioisotopes in medicine	1/00	6 200	10 000	-	0/08	2 510	-	-	1985
	TOTAL	3 projects	5/17	38 060	96 916	-	5/09	46 165	89 238	-	



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

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS			
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING
			M/M	\$	\$	\$	M/M	\$	\$	\$
1987	UGA/5/011	Genetic improvement of crops	0/28	6 720	86 185	-	0/28	15 236	85 672	-
1988	UGA/5/012	Integrated tsetse control programme	3/24	28 420	98 190	-	2/24	20 967	74 107	-
1989	UGA/5/013	Animal science	8/15	75 165	108 635	-	6/15	78 152	90 639	-
1991	UGA/5/014	Grain legume production through biological nitrogen fixation	2/06	20 370	116 040	60 300	1/06	9 976	57 051	16 090
1989	UGA/6/006	Nuclear medicine	2/00	16 200	29 301	-	2/01	16 612	29 301	-
1991	UGA/6/007	Radiation therapy	7/03	67 335	221 125	129 800	0/14	8 740	42 271	18 030
1991	UGA/6/008	Nuclear medicine (phase II)	5/00	46 950	118 000	58 500	1/09	6 880	86 987	2 973
1988	UGA/9/003	Radiation protection service	2/00	15 300	100 000	-	1/06	11 469	96 011	-
	TOTAL	8 projects	31/16	276 460	877 476	248 600	16/13	168 032	562 039	37 093

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

<u>Project No.</u>	<u>Institute</u>	<u>Counterpart(s)</u>
<u>AGRICULTURE</u>		
UGA/5/009	1. Makerere University, Faculty of Veterinary Medicine, Kampala	KATONGOLE
	2. Ministry of Animal Industry and Fisheries, Livestock Experimental Station, Entebbe	KOBUSINGYE
UGA/5/010	Ministry of Animal Industry and Fisheries, Tsetse Control Department, Kampala	KANGWAGYE
UGA/5/011	1. Department of Agriculture, Serere Research Station, Soroti	WANYERA
	2. Department of Agriculture, Namulonge Research Station, Kampala	MWANGA
UGA/5/012	Ministry of Animal Industry and Fisheries, Tsetse Control Department, Kampala	KANGWAGYE
UGA/5/013	Makerere University, Faculty of Veterinary Medicine, Kampala	KANYIMA M.
UGA/5/014	Department of Agriculture, Kawanda Research Station, Kampala	JJEMBA
<u>NUCLEAR MEDICINE</u>		
UGA/6/005	Makerere University, Medical School, Radioisotope Laboratory, Kampala	OWOR
UGA/6/006	Makerere University, Medical School, Radioisotope Laboratory, Kampala	WALUMBE

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

<u>Project No.</u>	<u>Institute</u>	<u>Counterpart(s)</u>
<u>NUCLEAR MEDICINE (cont'd)</u>		
UGA/6/007	Makerere University, Mulago Hospital, Radiotherapy Unit, Kampala	KIGULA-M.
UGA/6/008	Makerere University, Medical School, Radioisotope Laboratory, Kampala	WALUMBE
<u>NUCLEAR SAFETY</u>		
UGA/9/003	Makerere University, Department of Physics, Kampala	ILUKOR

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

**KAMPALA**

**Ministry of Animal Industry and Fisheries**  
**Tsetse Control Department**  
**Kampala**

UGA/5/010    Eradication of Tsetse Fly  
UGA/5/012    Integrated Tsetse Control Programme

**Department of Agriculture**  
**Namulonge Research Station**  
**Kampala**

UGA/5/011    Genetic Improvement of Crops

**Department of Agriculture**  
**Kawanda Research Station**  
**Kampala**

UGA/5/014    Grain Legume Production Through Biological Nitrogen Fixation

**Makerere University**  
**Faculty of Veterinary Medicine**  
**Kampala**

UGA/5/009    Animal Science  
UGA/5/013    Animal Science

**Makerere University**  
**Medical School**  
**Radioisotope Laboratory**  
**Kampala**

UGA/6/005    Radioisotopes in Medicine  
UGA/6/006    Nuclear Medicine  
UGA/6/008    Nuclear Medicine (Phase II)

**Makerere University**  
**Mulago Hospital**  
**Radiotherapy Unit**  
**Kampala**

UGA/6/007    Radiation Therapy

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

**KAMPALA (cont'd)**

**Makerere University  
Department of Physics  
Kampala**

UGA/9/003    Radiation Protection Service

**ENTEBBE**

**Ministry of Animal Industry and Fisheries  
Livestock Experimental Station  
Entebbe**

UGA/5/009    Animal Science

**SOROTI**

**Department of Agriculture  
Serere Research Station  
Soroti**

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

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

NONE

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

Field of activity	No. of contracts/ agreements	Amount allocated \$
Nuclear techniques in agriculture	16	122 000
Nuclear medicine	1	8 000
TOTAL	17	130 000

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

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

Name	No. of assignments	Project(s)
ESIRU	1	UGA/5/012
JJEMBA	1	RAF/5/010
TOTAL	2	



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

NONE

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

Course No.	Course Title	Participants	Year
RAF/0/005 (001)	Regional seminar on nuclear science for peace and development	16	1990
	TOTAL	16	