



Ministry of State * Ministère d'État

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FEDERAL SCIENCE EXPENDITURES

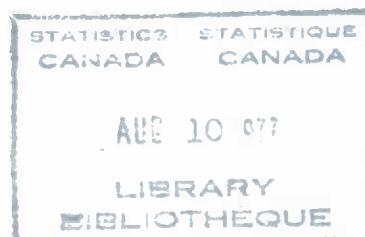
1975/76 - 1977/78*

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***Note: Intramural expenditures do not
include non-program costs.**

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**prepared for
préparé pour General Reference**

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ACKNOWLEDGMENT

This report presents a snapshot of science statistics taken in the context of the budgetary process which recently culminated in the tabling of Main Estimates 1977-78.

Many people from many departments and agencies contributed to the preparation of this report. Members of the Interdepartmental Committee on Science Expenditures are due special thanks for their assistance in providing the historical and planned science expenditure data on which this report is based. The Treasury Board Secretariat made it possible for these statistics to be derived through the budgetary machinery by incorporating the federal science statistics program of Statistics Canada and MOSST as addenda to the calls for Main Estimates and Program Forecasts.

The newly-formed Science Statistics Centre, a Statistics Canada satellite located at MOSST, worked very closely with MOSST personnel and departmental contacts to ensure that the data base, derived in this way, would be accurate, consistent, and, of course, timely. Our thanks to the staff of the Centre for enduring the inconveniences of make-shift office arrangements while this frantic exercise was taking place.

INTRODUCTION

This document presents several tables displaying Federal Government expenditures in the natural and human sciences. As it is designed primarily for those with a knowledge of the nature of the government's scientific activities, a minimum of descriptive material is presented.

There are three main sections and an appendix. The sections present, in turn, data on the natural and human sciences combined, on the natural sciences, and on the human sciences. The appendix contains definitions of terms and limitations of the surveys. Readers are urged to examine this appendix before attempting to draw conclusions from the data.

In addition to the table of contents, two indices are provided to aid the user in locating the desired tables. The first groups the tables into those presenting data relating to three activity areas: Total Scientific Activities, Research and Experimental Development, and Related Scientific Activities, and for each lists the variables displayed. The second index lists the variables in turn, and for each of these, the variables against which they are tabulated. Thus, users interested in an activity area such as Research and Development or in a variable such as performers will be able to locate all relevant tables quickly.

This publication is an update of MOSST Report 100-2E. The data used for the update is taken from the 1977-78 Main Estimates survey of expenditures in the natural and human sciences. Therefore, the figures for each of fiscal years 1975-76, 1976-77 and 1977-78 are actual, forecast and estimates, respectively.

Note that "non-program" costs are not included. See the appendix for an explanation of this exclusion. Similar data which includes "non-program" costs can be found in Statistics Canada publications "Federal Government Activities in the Natural Sciences" (Cat. No. 13-202) and "Federal Government Activities in the Human Sciences" (Cat. No. 13-205).

Additional expansions or variations of these tabulations are available on request.

Cette publication existe aussi en version française (MEST Rapport 100-3F).

ABBREVIATIONS

AECB	Atomic Energy Control Board	INA	Dept. of Indian & Northern Affairs
AECL	Atomic Energy of Canada Limited	ITC	Dept. of Industry, Trade and Commerce
Agr	Department of Agriculture	Jus	Department of Justice
AIB	Anti-Inflation Board	Lab	Department of Labour
BofC	Bank of Canada	M & I	Department of Manpower and Immigration
CAL	Canadian Arsenals Ltd.	MOT	Ministry of Transport
CBC	Canadian Broadcasting Corp.	MRC	Medical Research Council
CC	Canada Council	MSST	Min. of State for Science and Technology
CCA	Consumer and Corporate Affairs	MUA	Min. of State for Urban Affairs
CDC	Canadian Dairy Commission	NCC	National Capital Commission
CIDA	Canadian International Development Corporation	NEB	National Energy Board
CLFB	Canadian Livestock Feed Board	NFB	National Film Board
CMHC	Central Mortgage & Housing Corp.	NHB	National Harbours Board
COL	Comm. of Official Languages	NHW	Dept. of National Health & Welfare
CPDC	Canada Patent Development Corp.	NL	National Library
CRTC	Canadian Radion Television Comm.	NM	National Museum
CTC	Canadian Transport Commission	NR	Dept. of National Revenue
DND	Department of National Defence	NRC	National Research Council
DOC	Department of Communications	PA	Public Archives
DOE	Department of Environment	PCO	Privy Council Office
DPW	Department of Public Works	PO	Post Office Department
DREE	Dept. of Regional Economic Expansion	PSC	Public Service Commission
DSS	Dept. of Supply and Services	SC	Statistics Canada
DVA	Dept. of Veterans Affairs	Scc	Science Council
EA	Dept. of External Affairs	SG	Solicitor General
EMR	Dept. of Energy, Mines and Resources	SLSA	St. Lawrence Seaway Authority
Fin	Department of Finance	SofS	Secretary of State Department
FIRA	Foreign Investment Review Assoc.	TBS	Treasury Board Secretariat
FPRB	Food Prices Review Board	UIC	Unemployment Insurance Commission
IC	Information Canada		
IDRC	Intern'l Develop. Research Centre		

SYMBOLS

- nil or zero
 - - amount too small to be expressed

NOTES

1. Totals in this report may not add due to rounding. Percentages were calculated using unrounded figures.
2. Expenditure data cover the federal government fiscal year beginning April 1 of one year and ending March 31 of the following year.
3. The source of all data in this report is Statistics Canada unless otherwise indicated.

INDEX BY TYPE OF ACTIVITY

Federal Expenditures on...	Natural and Human Sciences		Natural Sciences		Human Sciences	
	Table	Page	Table	Page	Table	Page
Scientific Activities, Tabulated by.....						
Natural and Human Science.....	1	12	-	-	-	-
Natural and Human Science by..... Department	3	14	-	-	-	-
R&D and RSA.....	2	13	-	-	-	-
Performer.....	4	16	17	44	32	76
Performer by R&D and RSA.....	5	18	18	46	33	78
Department by R&D and RSA.....	6	20	19	48	34	80
Intramural and Extramural by..... Department	7	22	20	50	35	82
Performer by Funding Department....	8	24	21	52	36	84
Research and Development, Tabulated by.....						
Performer.....	9	26	22	54	37	86
Type of Funding.....	10	28	23	56	38	88
Intramural and Extramural by..... Department	11	30	24	58	39	90
Performer by Funding Department....	12	32	25	60	40	92
in Universities and Non-Profit..... Institutes by Type of Funding by Department	13	34	26	62	41	94
in Industry by Type of Funding.... by Department	14	36	27	64	42	96
Related Scientific Activities, Tabulated by.						
Performer.....	15	38	28	66	43	98
Activity.....	-	-	29	68	44	100
Intramural and Extramural by..... Department	16	40	30	70	45	102
Activity by Department	-	-	31	72	46	104

INDEX BY VARIABLE

Federal Expenditures on Science tabulated by...	Type of Activity ¹	Natural and Human Sciences		Natural Sciences		Human Sciences	
		Table	Page	Table	Page	Table	Page
Natural and Human Sciences							
Totals.....	SA	1	12	-	-	-	-
by Department.....	SA	3	14	-	-	-	-
Intramural and Extramural							
by Department.....	SA	7	22	20	50	35	82
	R&D	11	30	24	58	39	90
	RSA	16	40	30	70	45	102
Performer							
Totals.....	SA	4	16	17	44	32	76
	R&D	9	26	22	54	37	86
	RSA	15	38	28	66	43	98
by R&D and RSA.....	SA	5	18	18	46	33	78
by Department.....	SA	8	24	21	52	36	84
	R&D	12	32	25	60	40	92
in Universities and Non-profit Institutes by Type of Funding by Department	R&D	13	34	26	62	41	94
in Industry by Types of Funding by Department	R&D	14	36	27	64	42	96
Type of Funding							
Totals.....	R&D	10	28	23	56	38	88
in Universities and Non-profit Institutes by Department	R&D	13	34	26	62	41	94
in Industry by Department	R&D	14	36	27	64	42	96
Activity							
Totals.....	SA	2	13	-	-	-	-
	RSA	-	-	29	68	44	100
by Performer.....	SA	5	18	18	46	33	78
by Department.....	SA	6	20	19	48	34	80
	RSA	-	-	31	72	46	104

1. SA - Scientific Activities = R&D + RSA

R&D - Research and Experimental Development

RSA - Related Scientific Activities

INDEX BY VARIABLE

Federal Expenditures on Science tabulated by...	Type of Activity	Natural and Human Sciences		Natural Sciences		Human Sciences	
		Table	Page	Table	Page	Table	Page
Department							
by Natural Science &..... Human Science	SA	3	14	-	-	-	-
by R&D and RSA.....	SA	6	20	19	48	34	80
by Intramural and Extramural.....	SA	7	22	20	50	35	82
	R&D	11	30	24	58	39	49
	RSA	16	40	30	70	45	102
by Performer.....	SA	8	24	21	52	36	34
	R&D	12	32	25	60	40	92
by Activity.....	RSA	-	-	31	72	46	104
in Universities and Non-profit Institutes by Type of Funding	R&D	13	34	26	62	41	94
in Industry by Type of Funding	R&D	14	36	27	64	42	96

1. SA - Scientific Activities = R&D + RSA

R&D - Research and Experimental Development

RSA - Related Scientific Activities

1

Natural and Human Sciences

TABLE 1

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

NATURAL AND HUMAN SCIENCES, 1975-1978

(\$ MILLIONS)

	1975-76		1976-77		1977-78		AVERAGE ANNUAL CHANGE
	\$	%	\$	%	\$	%	
NATURAL SCIENCES	1,048.3	(76.6)	1,167.8	(74.0)	1,247.5	(75.0)	9.1 %
HUMAN SCIENCES	319.5	(23.4)	409.7	(26.0)	416.7	(25.0)	14.2 %
TOTAL	1,367.8	(100.0)	1,577.4	(100.0)	1,664.1	(100.0)	10.3 %

** THESE FIGURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 2

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY ACTIVITY, 1975-1978

(\$ MILLIONS)

ACTIVITY	1975-76		1976-77		1977-78		AVERAGE ANNUAL CHANGE
	\$	%	\$	%	\$	%	
RESEARCH & DEVELOPMENT	890.0	(65.1)	999.5	(63.4)	1,078.1	(64.8)	10.1 %
RELATED SCIENTIFIC ACTIV.	477.8	(34.9)	577.9	(36.6)	586.0	(35.2)	10.7 %
TOTAL	1,367.8	(100.0)	1,577.4	(100.0)	1,664.1	(100.0)	10.3 %

** THESE FIGURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 3

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY, NATURAL AND HUMAN SCIENCES, 1975-1978

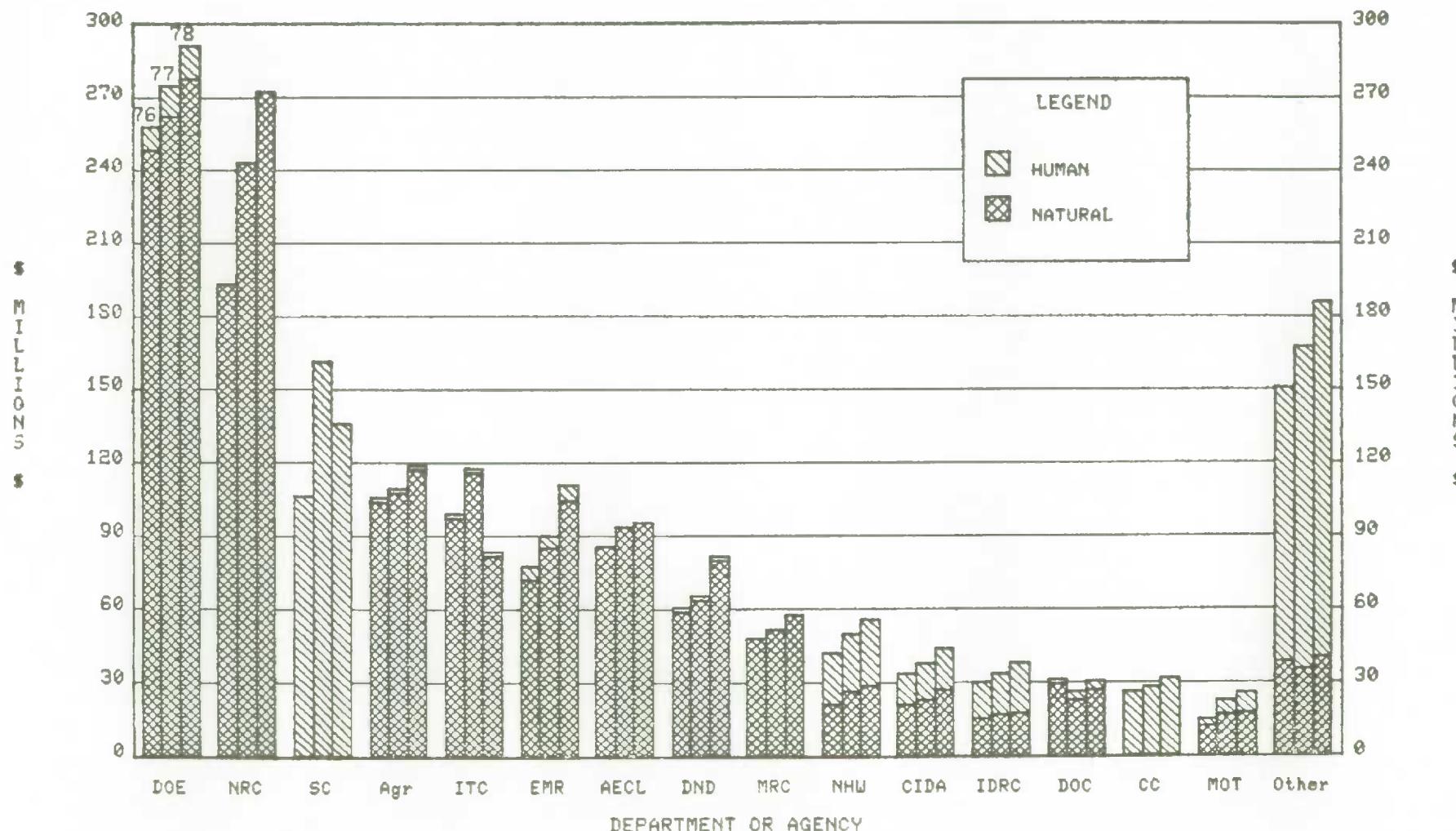
(\$ MILLIONS)

DEPARTMENT OR AGENCY	1975-76			1976-77			1977-78		
	NATURAL	HUMAN	TOTAL	NATURAL	HUMAN	TOTAL	NATURAL	HUMAN	TOTAL
DOE	248.6	9.6	258.2	282.6	12.7	275.3	277.9	13.7	291.5
NFC	193.6	---	193.6	243.1	---	243.1	272.7	---	272.7
SC	---	106.7	106.7	---	161.7	161.7	---	136.1	136.1
Agr	104.3	1.7	106.0	107.9	2.1	110.0	117.1	2.3	119.4
ITC	97.5	2.1	99.6	115.9	1.0	116.9	82.0	1.1	83.1
ENR	72.6	5.0	77.6	85.4	5.1	90.4	104.7	6.4	111.1
AECI	86.0	---	86.0	94.0	---	94.0	95.8	---	95.8
DND	59.2	1.5	60.6	64.0	1.6	65.6	80.2	1.8	82.1
MRC	48.4	---	48.4	52.1	---	52.1	58.1	---	58.1
NHW	21.1	21.1	42.2	26.5	23.8	50.3	28.9	27.4	56.3
CIDA	21.1	12.6	33.7	23.1	14.7	37.8	27.1	17.2	44.3
IDRC	15.5	14.6	30.1	17.3	16.9	34.2	17.8	20.3	38.1
DOC	29.5	2.7	32.2	23.3	3.3	26.6	27.4	3.4	30.8
CC	---	26.7	26.7	---	28.6	28.6	---	32.1	32.1
MOT	12.1	3.3	15.4	16.8	6.4	23.2	17.4	8.9	26.3
CMHC	1.6	5.0	6.7	3.4	9.4	12.7	4.8	13.3	18.1
CCA	7.9	2.2	10.2	8.4	3.2	11.6	9.8	3.5	13.3
INA	2.7	7.3	10.0	2.5	9.4	11.9	2.8	10.3	13.1
DSS	9.3	0.5	9.8	10.6	0.5	11.1	12.2	0.6	12.9
TBS	---	10.1	10.1	---	11.9	11.9	---	9.9	9.9
NM	3.1	6.6	9.7	3.5	6.9	10.5	3.9	7.5	11.3
NL	---	8.9	8.9	---	10.3	10.3	---	11.5	11.5
M&I	---	8.3	8.3	---	9.9	9.9	---	9.4	9.4
MUN	---	8.5	8.5	---	8.6	8.6	---	8.1	8.1
Fin	---	5.7	5.7	---	6.4	6.4	---	7.2	7.2
PA	---	5.4	5.4	---	5.6	5.6	---	7.5	7.5
JUS	---	4.6	4.6	---	5.0	5.0	---	6.8	6.8
SofS	---	3.9	3.9	---	4.7	4.7	---	6.5	6.5
ECC	---	4.2	4.2	---	5.0	5.0	---	5.3	5.3
FSC	---	3.7	3.7	---	4.1	4.1	---	4.7	4.7
MSST	---	2.7	2.7	---	3.9	3.9	---	4.5	4.5
EA	---	4.2	4.2	---	2.9	2.9	---	3.3	3.3
AECB	9.0	---	9.0	0.6	---	0.6	0.6	---	0.6
DPIW	2.7	---	2.7	3.6	---	3.6	3.3	---	3.3
CTC	---	2.5	2.5	---	2.7	2.7	---	2.9	2.9
SG	---	1.3	1.3	---	3.1	3.1	---	3.3	3.3
PCO	---	3.0	3.0	---	2.7	2.7	---	2.0	2.0
CBC	0.3	1.7	2.0	0.3	1.9	2.3	0.4	2.1	2.4
SCC	---	2.0	2.0	---	2.2	2.2	---	2.4	2.4
Lab	---	2.1	2.1	---	1.9	1.9	---	2.2	2.2
UIC	---	1.6	1.6	---	1.9	1.9	---	2.2	2.2
DREE	0.2	0.9	1.1	1.0	1.2	2.2	1.0	1.2	2.2
NR	---	1.4	1.4	---	1.9	1.9	---	2.3	2.3
NEB	1.1	---	1.1	1.2	---	1.3	1.2	---	1.2
NCC	---	0.9	0.9	---	0.9	0.9	---	0.9	0.9
CRTC	---	0.7	0.7	---	0.8	0.8	---	0.8	0.8
FIRA	---	0.7	0.7	---	0.6	0.6	---	0.8	0.8
COL	---	0.5	0.5	---	0.7	0.7	---	0.8	0.8
AIB	---	---	---	---	0.8	0.8	---	0.9	0.9
NFB	0.4	0.2	0.6	0.5	---	0.5	0.5	---	0.5
PO	---	0.3	0.3	---	0.4	0.4	---	0.4	0.4
NHS	---	0.2	0.2	---	0.3	0.3	---	0.3	0.3
DVA	0.4	0.1	0.4	---	---	---	---	---	---
CAL	0.1	---	0.1	0.1	---	0.1	0.1	---	0.1
CLFB	---	0.1	0.1	---	0.1	0.1	---	0.1	0.1
Other	---	---	---	---	---	---	---	---	---
TOTAL	1,048.3	319.5	1,367.8	1,167.8	409.7	1,577.4	1,247.5	416.7	1,664.1

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 3

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY DEPARTMENT OR AGENCY, NATURAL AND HUMAN SCIENCES, 1975-1978

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 4

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY PERFORMER, 1975-1978

(\$ MILLIONS)

PERFORMER	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
INTRAMURAL	875.8	(64.0)	1,005.7	(63.8)	1,051.7	(63.2)
INDUSTRY	215.1	(15.7)	267.6	(17.0)	263.7	(15.8)
UNIVERSITIES	187.9	(13.7)	202.7	(12.8)	229.1	(13.8)
NON-PROFIT INSTITUTIONS	13.5	(1.0)	18.6	(1.2)	15.3	(0.9)
FOREIGN	49.0	(3.6)	50.5	(3.2)	53.7	(3.2)
OTHER CANADIAN	26.7	(1.9)	32.3	(2.0)	50.5	(3.0)
TOTAL	1,367.8	(100.0)	1,577.4	(100.0)	1,664.1	(100.0)

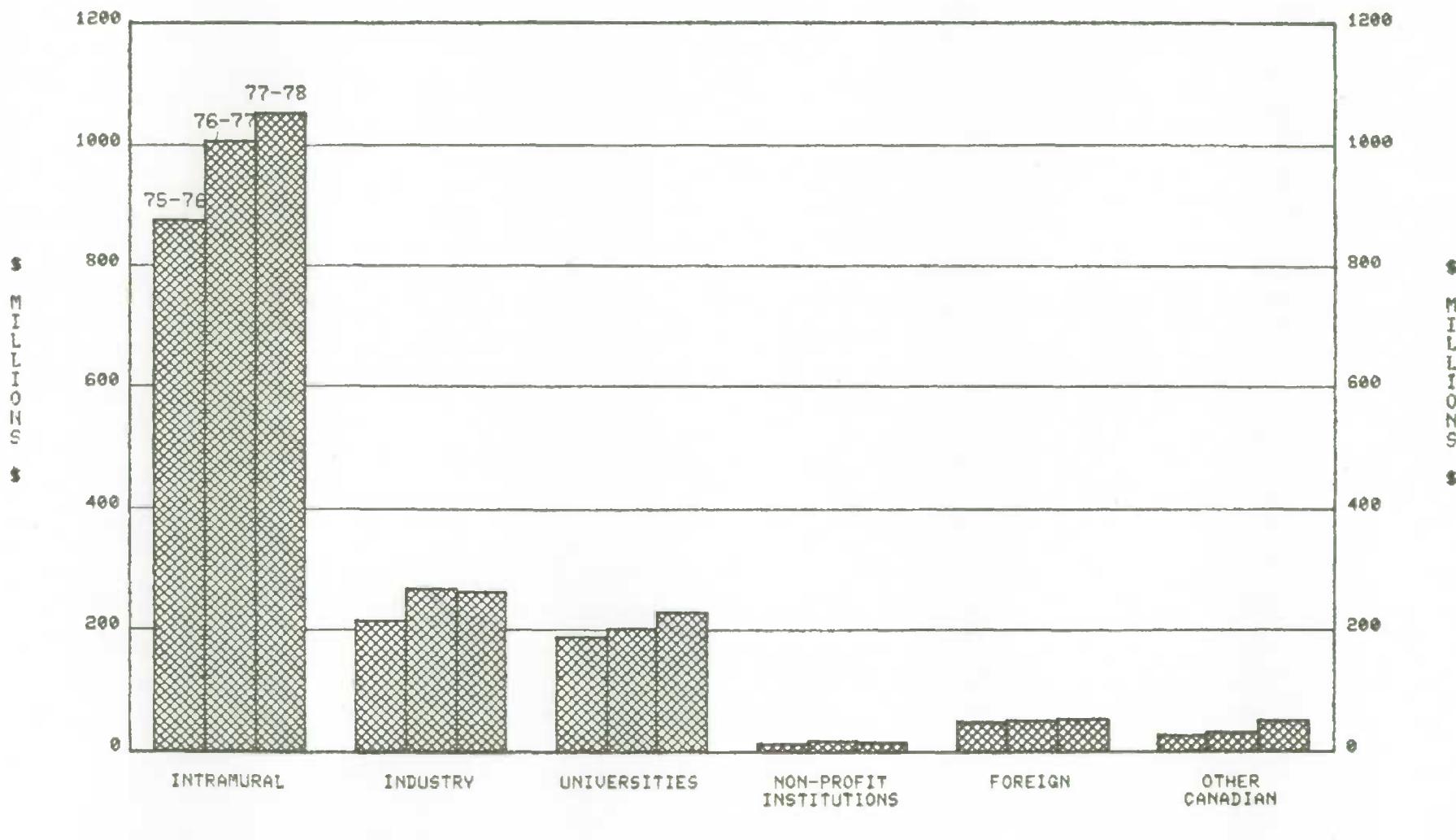
** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 4

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY PERFORMER, 1975-1978



PERFORMER

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 5

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY PERFORMER, BY ACTIVITY, 1975-1978

• (\$ MILLIONS)

PERFORMER	1975-76			1976-77			1977-78		
	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
INTRAMURAL	478.8	397.0	875.8	521.8	484.0	1,005.7	570.0	481.7	1,051.7
INDUSTRY	183.6	31.5	215.1	227.5	40.1	267.6	220.3	43.4	263.7
UNIVERSITIES	159.2	28.7	187.9	172.7	30.0	202.7	194.9	34.3	229.1
NON-PROFIT INSTITUTIONS	8.2	5.2	13.5	13.6	5.0	18.6	10.1	5.2	15.3
FOREIGN	42.3	6.7	49.0	42.4	8.1	50.5	44.4	9.3	53.7
OTHER CANADIAN	17.8	8.8	26.7	21.6	10.8	32.3	38.5	12.0	50.5
TOTAL	890.0	477.8	1,367.8	999.5	577.9	1,577.4	1,078.1	586.0	1,664.1

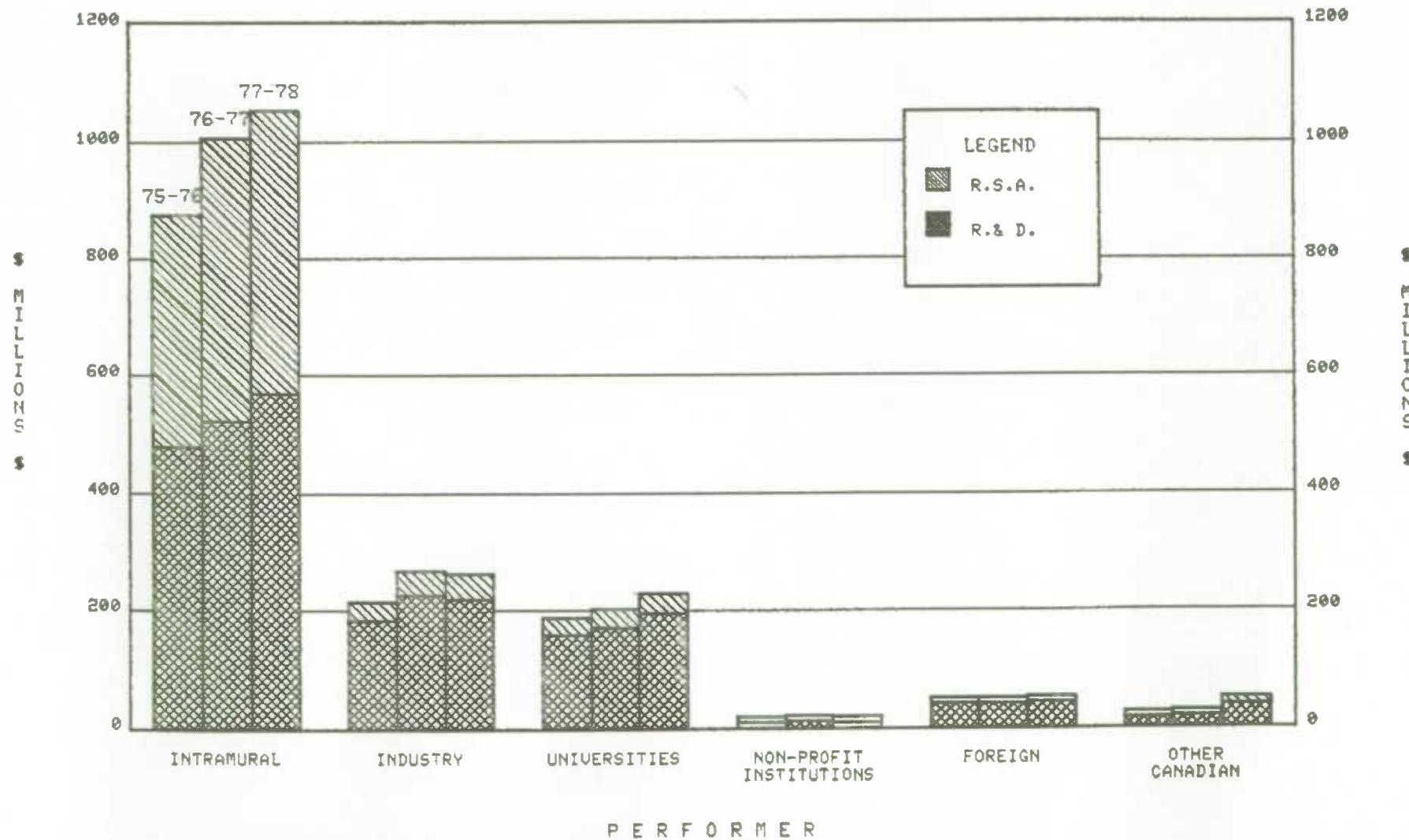
** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 5

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY PERFORMER, BY ACTIVITY, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 6

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY, BY ACTIVITY, 1975-1978

(\$ MILLIONS)

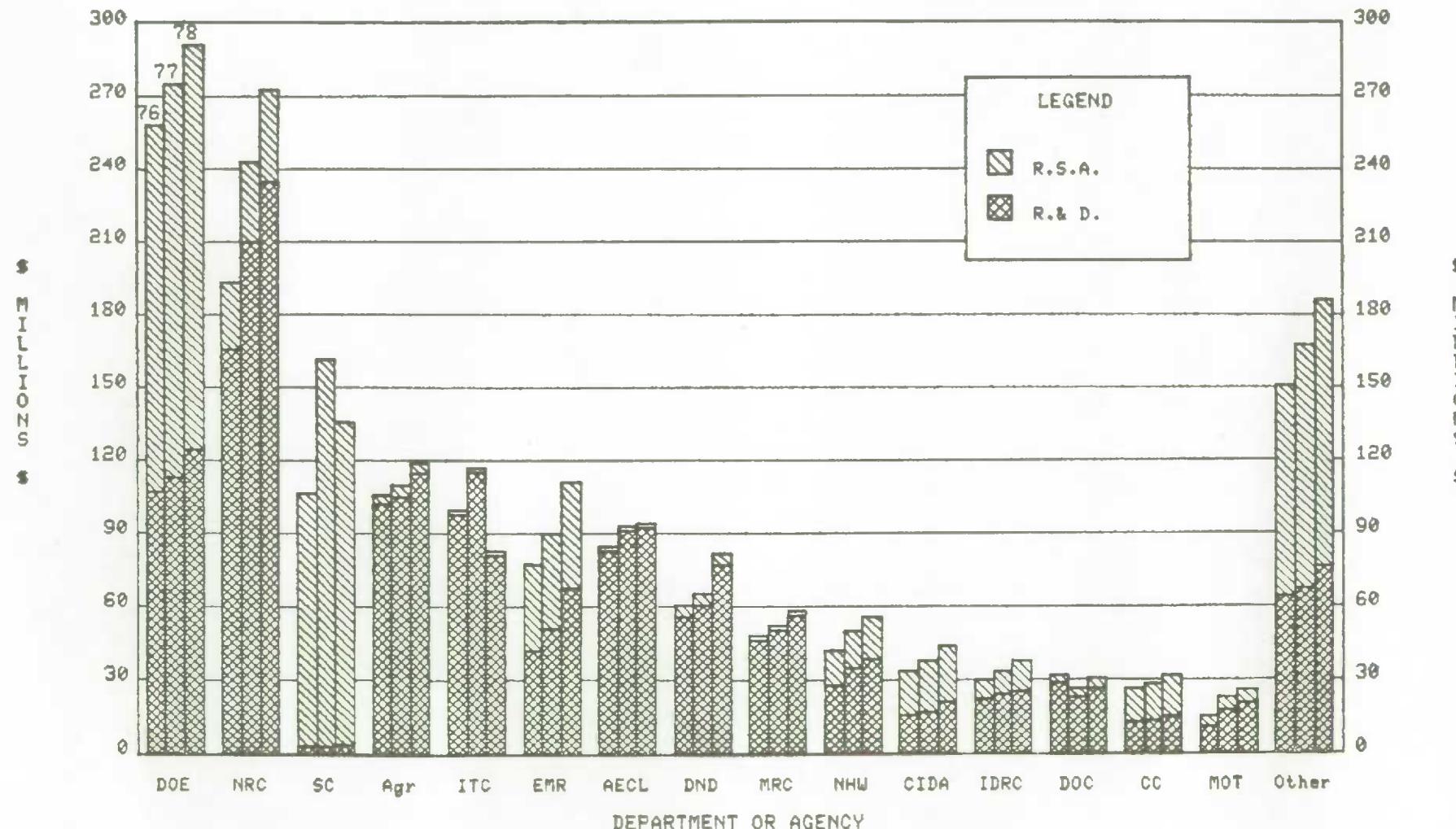
DEPARTMENT OR AGENCY	1975-76			1976-77			1977-78		
	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
DOE	107.4	150.8	258.2	113.2	162.1	275.3	124.7	166.8	291.5
NRC	166.0	27.6	193.6	210.2	32.9	243.1	234.7	38.0	272.7
SC	3.4	103.2	106.7	3.2	158.4	161.7	3.8	132.3	136.1
Agr	102.1	3.9	106.0	105.5	4.5	110.0	114.7	4.6	119.4
ITC	98.0	1.6	99.6	115.3	1.7	116.9	81.3	1.8	83.1
EMR	42.3	35.4	77.6	51.0	39.4	90.4	68.4	42.7	111.1
AECL	83.3	2.6	86.0	91.3	2.7	94.0	92.9	2.9	95.8
DND	56.3	4.3	60.6	61.2	4.4	65.6	77.1	4.9	82.1
MRC	46.8	1.7	48.4	50.6	1.4	52.1	56.4	1.6	58.1
NHW	28.1	14.1	42.2	35.0	15.3	50.3	38.5	17.8	56.3
CIDA	16.2	17.5	33.7	16.9	20.9	37.8	21.2	23.1	44.3
IDRC	22.8	7.3	30.1	24.2	10.0	34.2	25.4	12.8	38.1
DOC	29.0	3.2	32.2	22.8	3.8	26.6	26.9	3.9	30.8
CC	12.9	13.8	26.7	13.6	15.0	28.6	15.1	17.0	32.1
MOT	10.9	4.5	15.4	17.8	5.4	23.2	20.6	5.7	26.3
CMHC	2.3	4.3	6.7	5.8	7.0	12.7	9.4	8.7	18.1
CCA	2.2	8.0	10.2	2.7	8.9	11.6	3.0	10.3	13.3
INA	8.5	1.5	10.0	9.9	2.1	11.9	10.3	2.7	13.1
DSS	7.4	2.4	9.9	7.8	3.3	11.1	9.1	3.8	12.9
TBS	0.1	10.0	10.1	0.1	11.8	11.9	0.1	9.8	9.9
NM	3.4	6.3	9.7	3.6	6.8	10.5	4.0	7.4	11.3
NL	---	8.9	8.9	---	10.3	10.3	---	11.5	11.5
M&I	2.5	5.9	8.3	3.0	6.9	9.9	2.9	6.5	9.4
MUA	5.1	3.3	8.5	5.5	5.1	8.6	3.4	4.8	8.1
Fin	---	5.7	5.7	---	6.4	6.4	---	7.2	7.2
PA	---	5.4	5.4	---	5.6	5.6	---	7.5	7.5
Jus	3.4	1.3	4.6	3.7	1.3	5.0	5.2	1.6	6.8
SofS	0.9	2.9	3.9	1.0	3.7	4.7	1.3	5.2	6.5
ECC	4.2	---	4.2	5.0	---	5.0	5.3	---	5.3
PSC	3.7	---	3.7	4.1	---	4.1	4.7	---	4.7
Other	21.0	20.3	41.2	17.6	20.6	38.2	17.8	22.9	40.7
TOTAL	890.0	477.8	1,367.8	999.5	577.9	1,577.4	1,078.1	586.0	1,664.1

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 6

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY DEPARTMENT OR AGENCY, BY ACTIVITY, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 7

NATURAL AND HUMAN SCIENCES

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY, 1975-1978

(\$ MILLIONS)

DEPARTMENT OR AGENCY	1975-76			1976-77			1977-78		
	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
DOE	243.5	14.7	258.2	256.6	18.7	275.3	270.7	20.8	291.5
NRC	85.3	108.2	193.6	103.0	140.1	243.1	115.1	157.6	272.7
SC	106.6	-	106.7	161.6	-	161.7	136.1	-	136.1
Agr	103.7	2.3	106.0	105.4	4.6	110.0	113.9	5.4	119.4
ITC	3.5	96.1	99.6	3.5	113.4	116.9	3.8	79.2	83.1
EMR	66.1	11.5	77.6	75.4	15.0	90.4	78.3	32.8	111.1
AECL	60.7	25.3	86.0	65.1	28.9	94.0	64.0	31.8	95.8
DND	43.2	17.5	60.6	48.4	17.2	65.6	61.1	20.9	82.1
MRC	1.0	47.4	48.4	1.2	50.8	52.1	1.3	56.7	58.1
NHW	19.3	22.9	42.2	22.8	27.5	50.3	25.2	31.1	56.3
CIDA	1.2	32.5	33.7	1.3	36.5	37.8	1.6	42.7	44.3
IDRC	10.4	19.7	30.1	12.5	21.7	34.2	14.7	23.4	38.1
DOC	20.4	11.8	32.2	21.2	5.4	26.6	25.1	5.7	30.8
CC	1.5	25.2	26.7	1.9	26.6	28.6	2.2	29.8	32.1
MOT	5.8	9.6	15.4	7.9	15.3	23.2	9.2	17.1	26.3
CMHC	3.2	3.5	6.7	4.9	7.9	12.7	5.4	12.7	18.1
CCA	9.8	0.4	10.2	11.0	0.6	11.6	12.7	0.6	13.3
INA	6.5	3.5	10.0	8.2	3.7	11.9	9.3	3.8	13.1
DSS	0.6	9.3	9.9	0.6	10.5	11.1	0.9	12.0	12.9
TBS	10.0	0.1	10.1	11.8	0.1	11.9	9.8	0.1	9.9
NM	7.9	1.9	9.7	8.5	2.0	10.5	9.2	2.1	11.3
NL	8.9	-	8.9	10.3	-	10.3	11.5	-	11.5
M& I	7.2	1.1	8.3	8.5	1.4	9.9	8.1	1.3	9.4
MUA	2.7	5.8	8.5	2.8	5.9	8.6	1.9	6.2	8.1
Fin	5.7	---	5.7	6.4	---	6.4	7.2	---	7.2
PA	5.4	---	5.4	5.6	---	5.6	7.5	---	7.5
Jus	3.5	1.1	4.6	3.7	1.3	5.0	4.9	1.9	6.8
SofS	1.4	2.4	3.9	2.1	2.6	4.7	3.7	2.9	6.5
ECC	4.0	0.2	4.2	4.8	0.2	5.0	5.1	0.2	5.3
PSC	3.7	---	3.7	4.1	---	4.1	4.7	---	4.7
Other	23.2	18.1	41.2	24.7	13.6	38.2	27.2	13.5	40.7
TOTAL	875.8	492.0	1,367.8	1,005.7	571.7	1,577.4	1,051.7	612.4	1,664.1

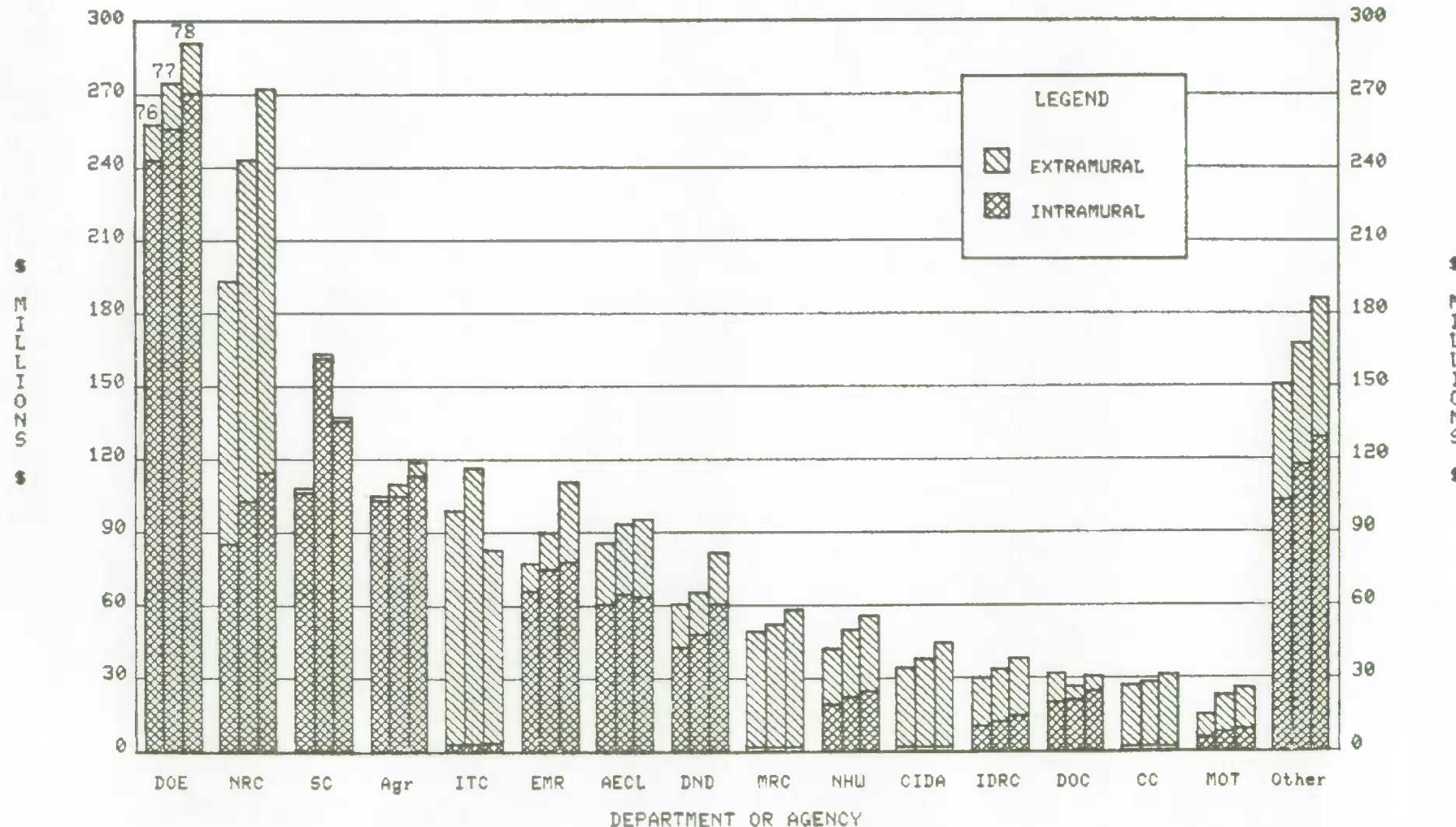
** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 7

NATURAL AND HUMAN SCIENCES

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 8
NATURAL AND HUMAN SCIENCES
FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY PERFORMER, BY FUNDING DEPARTMENT OR AGENCY, 1975-1978
(\$ MILLIONS)

PERFORMER	DEPT. OR AGENCY	1975-76		1976-77		1977-78	
		\$	%	\$	%	\$	%
INTRAMURAL	DOE	243.5	(27.8)	256.6	(25.5)	270.7	(25.7)
*****	SC	106.6	(12.2)	161.6	(16.1)	136.1	(12.9)
	Agr	103.7	(11.8)	105.4	(10.5)	113.9	(10.8)
	NRC	85.3	(9.7)	103.0	(10.2)	115.1	(10.9)
	EMR	66.1	(7.6)	75.4	(7.5)	78.3	(7.4)
	AECL	60.7	(6.9)	65.1	(6.5)	64.0	(6.1)
	DND	43.2	(4.9)	48.4	(4.8)	61.1	(5.8)
	NHW	19.3	(2.2)	22.8	(2.3)	25.2	(2.4)
	DOC	20.4	(2.3)	21.2	(2.1)	25.1	(2.4)
	IDRC	10.4	(1.2)	12.5	(1.2)	14.7	(1.4)
	CCA	9.8	(1.1)	11.0	(1.1)	12.7	(1.2)
	TBS	10.0	(1.1)	11.8	(1.2)	9.8	(0.9)
	NL	8.9	(1.0)	10.3	(1.0)	11.5	(1.1)
	NM	7.9	(0.9)	8.5	(0.8)	9.2	(0.9)
	INA	6.5	(0.7)	8.2	(0.8)	9.3	(0.9)
	Other	73.5	(8.4)	84.0	(8.4)	94.8	(9.0)
	TOTAL	875.8	(100.0)	1,005.7	(100.0)	1,051.7	(100.0)
EXTRAMURAL	ITC	92.6	(43.1)	106.6	(39.8)	75.5	(28.6)
*****	NRC	23.1	(10.8)	42.0	(15.7)	50.3	(19.1)
INDUSTRY	AECL	24.2	(11.3)	28.2	(10.5)	30.8	(11.7)
	CIDA	14.0	(6.5)	17.4	(6.5)	19.1	(7.3)
	DND	13.1	(6.1)	14.2	(5.3)	17.1	(6.5)
	EMR	7.0	(3.3)	10.1	(3.8)	15.5	(5.9)
	DOE	7.6	(3.5)	9.2	(3.4)	10.4	(3.9)
	DSS	7.6	(3.5)	8.7	(3.2)	9.9	(3.7)
	MOT	4.9	(2.3)	9.7	(3.6)	9.9	(3.8)
	DOC	9.2	(4.3)	3.5	(1.3)	3.5	(1.3)
	CMHC	1.1	(0.5)	4.8	(1.8)	8.0	(3.0)
	NM	1.4	(0.7)	1.6	(0.6)	1.7	(0.6)
	MUA	2.0	(0.9)	1.5	(0.5)	0.8	(0.3)
	CBC	0.9	(0.4)	1.2	(0.4)	1.2	(0.5)
	UIC	0.9	(0.4)	1.1	(0.4)	1.2	(0.5)
	Other	5.2	(2.4)	8.0	(3.0)	8.6	(3.3)
	TOTAL	215.1	(100.0)	267.6	(100.0)	263.7	(100.0)

UNIVERSITIES	NRC	75.6	(40.2)	89.8	(44.3)	101.5	(44.3)
	MRC	45.0	(23.9)	48.6	(24.0)	54.2	(23.6)
	CC	20.1	(10.7)	20.9	(10.3)	23.4	(10.2)
	NHW	11.9	(6.3)	15.6	(7.7)	17.6	(7.7)
	DOE	4.2	(2.2)	4.9	(2.4)	5.5	(2.4)
	AECB	8.9	(4.7)	0.5	(0.2)	0.3	(0.1)
	CIDA	3.0	(1.6)	2.8	(1.4)	3.1	(1.3)
	Agr	1.7	(0.9)	3.1	(1.5)	3.5	(1.5)
	Other	17.7	(9.4)	16.5	(8.1)	20.1	(8.8)
	TOTAL	187.9	(100.0)	202.7	(100.0)	229.1	(100.0)

NON-PROFIT INSTITUTIONS	NHW	2.3	(17.1)	2.5	(13.4)	3.2	(20.7)
	ITC	1.2	(8.6)	4.9	(26.6)	1.8	(11.8)
	CC	2.2	(16.2)	2.3	(12.4)	2.7	(17.3)
	PCO	1.5	(11.1)	2.3	(12.3)	1.6	(10.5)
	NRC	1.5	(11.1)	1.3	(6.9)	1.3	(8.8)
	DOE	1.0	(7.7)	1.5	(8.1)	1.5	(9.9)
	MUA	1.6	(12.0)	1.1	(5.7)	0.5	(3.0)
	INA	0.8	(5.7)	0.8	(4.1)	0.7	(4.6)
	Other	1.4	(10.7)	1.9	(10.4)	2.0	(13.3)
	TOTAL	13.5	(100.0)	18.6	(100.0)	15.3	(100.0)

FOREIGN	IDRC	17.4	(35.6)	19.0	(37.6)	20.2	(37.6)
	CIDA	15.5	(31.6)	16.3	(32.3)	20.5	(38.2)
	NRC	7.5	(15.2)	6.5	(12.8)	3.6	(6.8)
	CC	3.0	(6.1)	3.4	(6.7)	3.8	(7.1)
	MRC	2.4	(4.8)	2.2	(4.3)	2.5	(4.6)
	DND	1.4	(2.9)	1.5	(3.0)	2.1	(3.9)
	MSST	0.2	(0.4)	0.3	(0.7)	0.3	(0.6)
	NHW	0.3	(0.6)	0.2	(0.5)	0.3	(0.5)
	Other	1.3	(2.7)	1.1	(2.2)	0.4	(0.7)
	TOTAL	49.0	(100.0)	50.5	(100.0)	53.7	(100.0)

OTHER CANADIAN	NHW	8.1	(30.5)	9.0	(27.9)	9.8	(19.4)
	EMR	2.3	(8.6)	3.0	(9.3)	14.8	(29.3)
	MOT	2.7	(10.1)	3.1	(9.6)	4.4	(8.8)
	DOE	1.8	(6.6)	2.9	(8.9)	3.2	(6.4)
	MUA	1.1	(4.2)	2.0	(6.3)	3.1	(6.2)
	CMHC	1.2	(4.4)	1.6	(5.0)	2.9	(5.8)
	IDRC	1.4	(5.2)	1.6	(5.1)	2.0	(4.0)
	DOC	1.2	(4.5)	1.3	(4.1)	1.6	(3.1)
	Other	6.9	(25.9)	7.7	(23.8)	8.7	(17.2)
	TOTAL	26.7	(100.0)	32.3	(100.0)	50.5	(100.0)

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 9

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON RESEARCH AND DEVELOPMENT
BY PERFORMER, 1975-1978

(\$ MILLIONS)

PERFORMER	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
INTRAMURAL	478.8	(53.8)	521.8	(52.2)	570.0	(52.9)
INDUSTRY	183.6	(20.6)	227.5	(22.8)	220.3	(20.4)
UNIVERSITIES	159.2	(17.9)	172.7	(17.3)	194.9	(18.1)
NON-PROFIT INSTITUTIONS	8.2	(0.9)	13.6	(1.4)	10.1	(0.9)
FOREIGN	42.3	(4.8)	42.4	(4.2)	44.4	(4.1)
OTHER CANADIAN	17.8	(2.0)	21.6	(2.2)	38.5	(3.6)
TOTAL	890.0	(100.0)	999.5	(100.0)	1,078.1	(100.0)

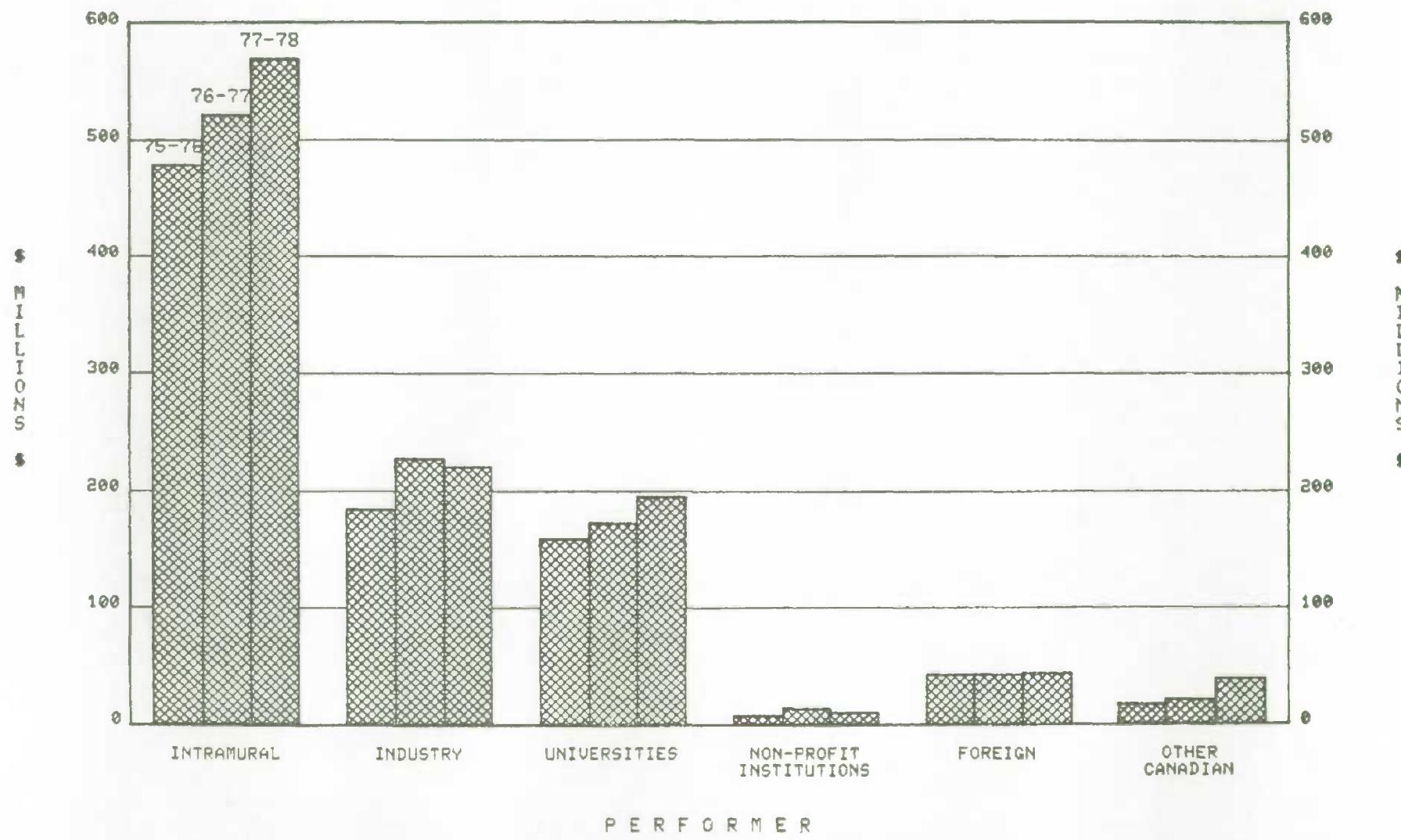
** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 9

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON RESEARCH AND DEVELOPMENT

BY PERFORMER, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 10

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON RESEARCH AND DEVELOPMENT
BY TYPE OF FUNDING, 1975-1978

(\$ MILLIONS)

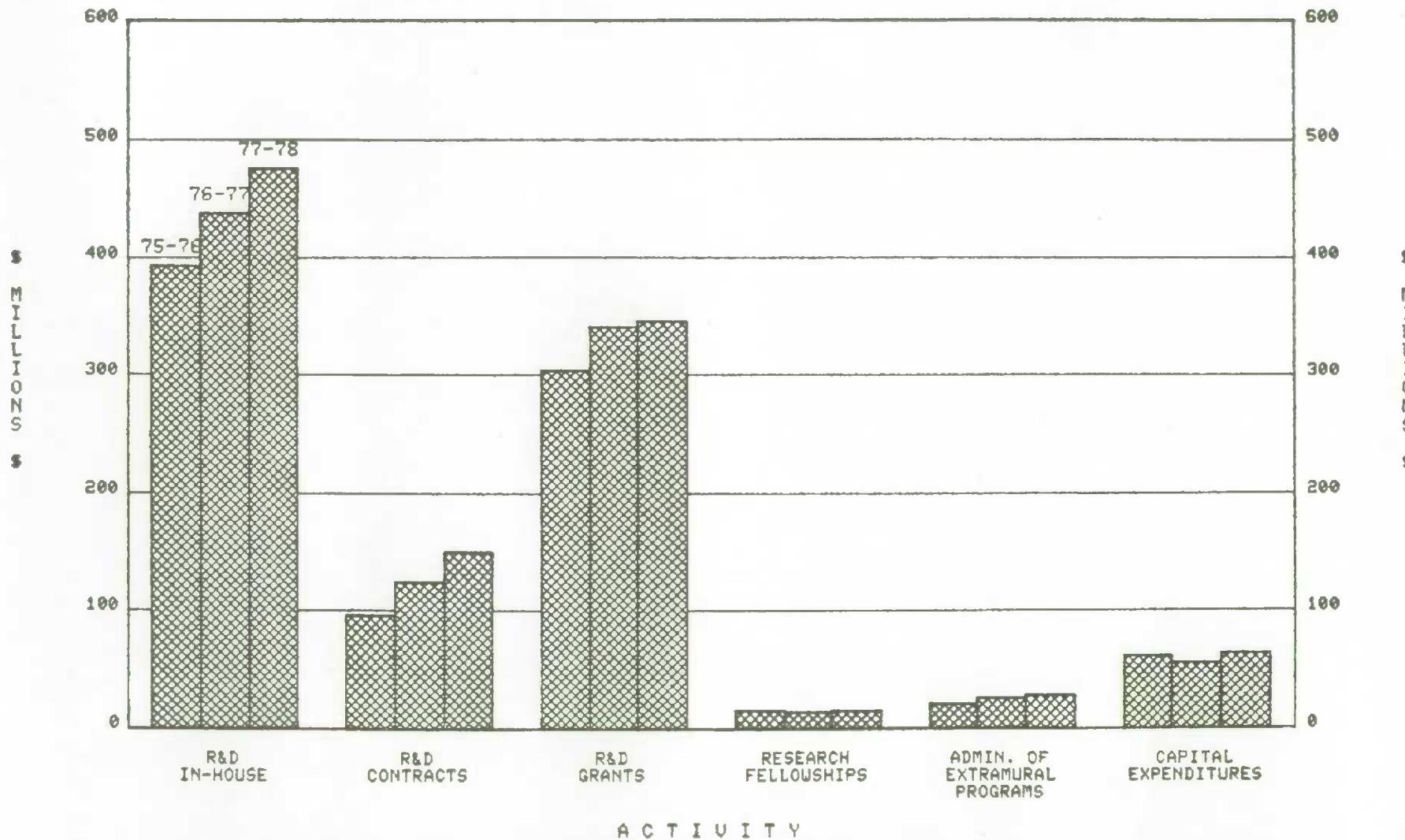
TYPE OF FUNDING	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
CURRENT	828.7	(93.1)	943.5	(94.4)	1,014.5	(94.1)
IN-HOUSE R&D	393.4	(44.2)	437.6	(43.8)	475.3	(44.1)
R&D CONTRACTS	95.1	(10.7)	124.5	(12.5)	149.4	(13.9)
R&D GRANTS	304.1	(34.2)	341.7	(34.2)	346.6	(32.1)
RESEARCH FELLOWSHIPS	14.7	(1.7)	14.2	(1.4)	15.3	(1.4)
ADMIN. OF EXTRAMURAL PROGRAMS	21.3	(2.4)	25.4	(2.5)	27.8	(2.6)
CAPITAL EXPENDITURES	61.2	(6.9)	56.0	(5.6)	63.7	(5.9)
TOTAL	890.0	(100.0)	999.5	(100.0)	1,078.1	(100.0)

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 10

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON RESEARCH AND DEVELOPMENT
BY TYPE OF FUNDING, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 11

NATURAL AND HUMAN SCIENCES

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RESEARCH AND DEVELOPMENT

BY DEPARTMENT OR AGENCY, 1975-1978

(\$ MILLIONS)

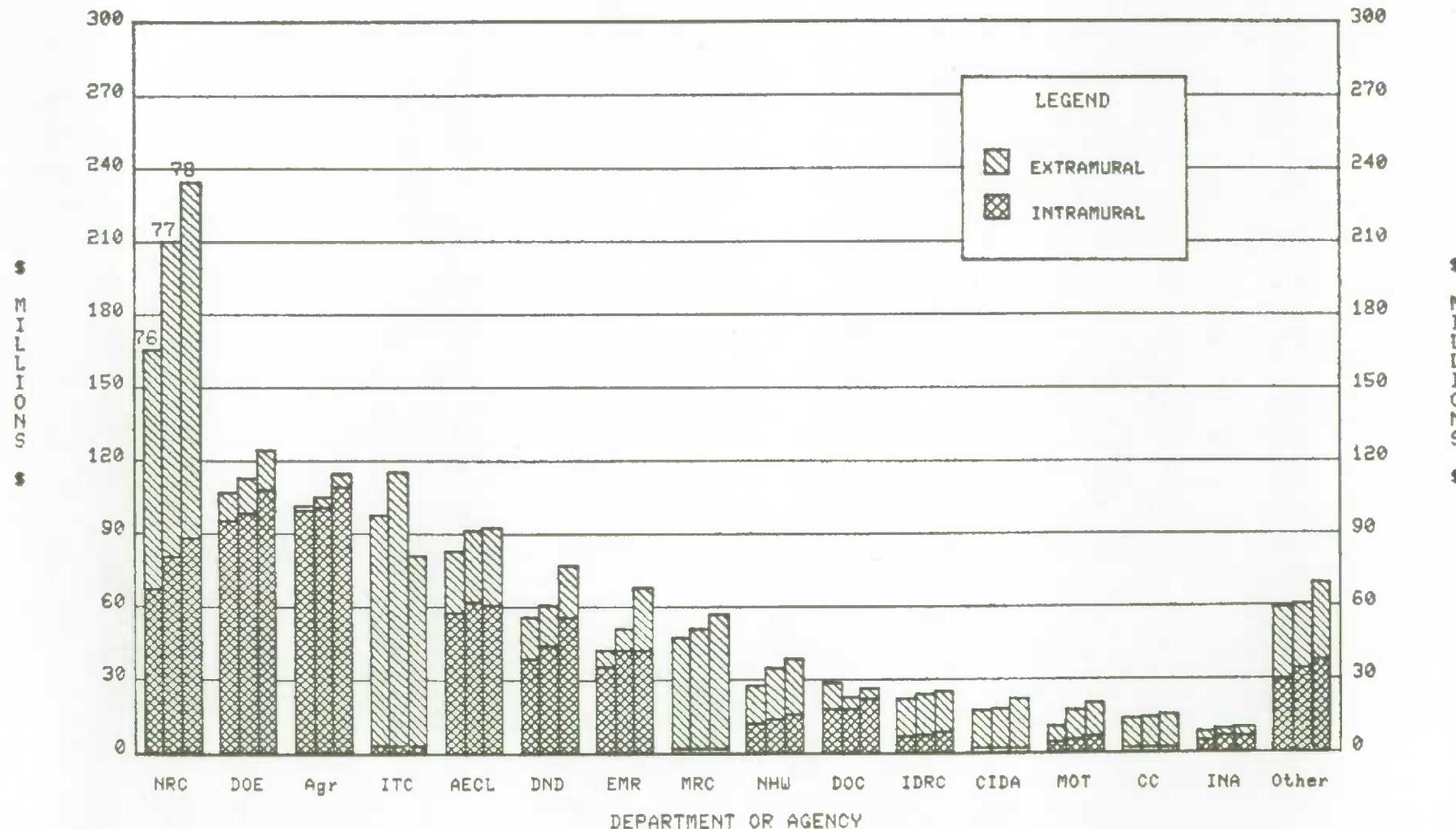
DEPARTMENT OR AGENCY	1975-76			1976-77			1977-78		
	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
NRC	67.3	98.7	166.0	80.5	129.7	210.2	88.6	146.1	234.7
DOE	95.9	11.5	107.4	99.0	14.2	113.2	108.0	16.7	124.7
Agr	99.8	2.3	102.1	100.9	4.6	105.5	109.3	5.4	114.7
ITC	3.1	94.9	98.0	3.1	112.2	115.3	3.4	77.9	81.3
AECL	58.1	25.3	83.3	62.4	28.9	91.3	61.1	31.8	92.9
DND	38.8	17.5	56.3	44.0	17.2	61.2	56.2	20.9	77.1
EMR	35.9	6.3	42.3	42.2	8.8	51.0	42.2	26.1	68.4
MRC	0.9	45.9	46.8	1.1	49.5	50.6	1.2	55.2	56.4
NHW	12.2	15.9	28.1	14.2	20.9	35.0	15.6	22.9	38.5
DOC	18.2	10.8	29.0	18.5	4.4	22.8	22.3	4.6	26.9
IDRC	7.1	15.6	22.8	7.7	16.5	24.2	8.5	16.9	25.4
CIDA	0.4	15.8	16.2	0.4	16.5	16.9	0.5	20.7	21.2
MOT	4.7	6.2	10.9	5.6	12.1	17.8	6.9	13.7	20.6
CC	0.7	12.1	12.9	1.0	12.6	13.6	1.1	14.0	15.1
INA	5.3	3.2	8.5	6.7	3.2	9.9	7.2	3.2	10.3
DSS	0.5	6.9	7.4	0.5	7.3	7.8	0.7	8.3	9.1
CMHC	1.2	1.2	2.3	2.4	3.4	5.8	2.8	6.6	9.4
ECC	4.0	0.2	4.2	4.8	0.2	5.0	5.1	0.2	5.3
PSC	3.7	---	3.7	4.1	---	4.1	4.7	---	4.7
Jus	2.4	1.0	3.4	2.6	1.1	3.7	3.5	1.7	5.2
MUA	1.8	3.4	5.1	1.7	1.9	3.5	0.5	2.8	3.4
NM	2.9	0.5	3.4	3.2	0.5	3.6	3.5	0.5	4.0
SC	3.4	---	3.4	3.2	---	3.2	3.8	---	3.8
AECB	---	9.0	9.0	---	0.6	0.6	0.1	0.5	0.6
M&I	1.3	1.1	2.5	1.6	1.4	3.0	1.6	1.3	2.9
CCA	1.8	0.4	2.2	2.1	0.6	2.7	2.4	0.6	3.0
SG	0.5	0.6	1.1	1.1	1.7	2.8	1.0	1.8	2.8
PCO	0.3	0.9	1.2	0.4	2.3	2.7	0.4	1.6	2.0
CTC	1.0	0.8	1.8	1.1	0.9	1.9	1.3	0.9	2.1
UIC	0.6	0.9	1.5	0.7	1.0	1.7	0.8	1.1	2.0
Other	5.0	2.3	7.4	5.2	3.8	8.9	5.6	4.0	9.6
TOTAL	478.8	411.2	890.0	521.8	477.8	999.5	570.0	508.1	1,078.1

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 11

NATURAL AND HUMAN SCIENCES

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RESEARCH AND DEVELOPMENT
BY DEPARTMENT OR AGENCY, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 12
NATURAL AND HUMAN SCIENCES
FEDERAL EXPENDITURES ON RESEARCH AND DEVELOPMENT
BY PERFORMER, BY FUNDING DEPARTMENT OR AGENCY, 1975-1978
(\$ MILLIONS)

PERFORMER	DEPT. OR AGENCY	1975-76		1976-77		1977-78	
		\$	%	\$	%	\$	%
INTRAMURAL	Agr	99.8	(20.8)	100.9	(19.3)	109.3	(19.2)
*****	DOE	95.9	(20.0)	99.0	(19.0)	108.0	(19.0)
	NRC	67.3	(14.1)	80.5	(15.4)	88.6	(15.5)
	AECL	58.1	(12.1)	62.4	(12.0)	61.1	(10.7)
	DND	38.8	(8.1)	44.0	(8.4)	56.2	(9.9)
	EMR	35.9	(7.5)	42.2	(8.1)	42.2	(7.4)
	DOC	18.2	(3.8)	18.5	(3.5)	22.3	(3.9)
	NHW	12.2	(2.5)	14.2	(2.7)	15.6	(2.7)
	IDRC	7.1	(1.5)	7.7	(1.5)	8.5	(1.5)
	INA	5.3	(1.1)	6.7	(1.3)	7.2	(1.3)
	MOT	4.7	(1.0)	5.6	(1.1)	6.9	(1.2)
	ECC	4.0	(0.8)	4.8	(0.9)	5.1	(0.9)
	PSC	3.7	(0.8)	4.1	(0.8)	4.7	(0.8)
	SC	3.4	(0.7)	3.2	(0.6)	3.8	(0.7)
	NM	2.9	(0.6)	3.2	(0.6)	3.5	(0.6)
	Other	21.5	(4.5)	24.8	(4.8)	26.9	(4.7)
	TOTAL	478.8	(100.0)	521.8	(100.0)	570.0	(100.0)
EXTRAMURAL	ITC	92.2	(50.2)	106.4	(46.8)	75.3	(34.2)
*****	NRC	23.1	(12.6)	41.7	(18.3)	49.8	(22.6)
INDUSTRY	AECL	24.2	(13.2)	28.2	(12.4)	30.8	(14.0)
	DND	13.1	(7.1)	14.2	(6.3)	17.1	(7.8)
	DOE	5.3	(2.9)	6.4	(2.8)	8.2	(3.7)
	DSS	5.5	(3.0)	6.1	(2.7)	6.9	(3.1)
	MOT	3.6	(2.0)	7.7	(3.4)	7.1	(3.2)
	EMR	2.3	(1.2)	4.3	(1.9)	9.2	(4.2)
	DOC	8.5	(4.7)	2.8	(1.2)	2.8	(1.3)
	CMHC	0.4	(0.2)	2.4	(1.1)	5.1	(2.3)
	UIC	0.9	(0.5)	1.0	(0.4)	1.1	(0.5)
	M&I	0.8	(0.5)	1.0	(0.5)	1.0	(0.4)
	DREE	0.3	(0.1)	1.2	(0.5)	1.2	(0.5)
	CTC	0.7	(0.4)	0.8	(0.3)	0.8	(0.4)
	Agr	0.2	(0.1)	0.6	(0.3)	0.8	(0.4)
	Other	2.5	(1.4)	2.8	(1.2)	3.0	(1.4)
	TOTAL	183.6	(100.0)	227.5	(100.0)	220.3	(100.0)

UNIVERSITIES	NRC	67.8	(42.6)	81.3	(47.1)	92.5	(47.5)
	MRC	43.5	(27.3)	47.3	(27.4)	52.8	(27.1)
	CC	12.1	(7.6)	12.6	(7.3)	14.0	(7.2)
	NHW	8.8	(5.5)	12.4	(7.2)	13.7	(7.0)
	DOE	4.0	(2.5)	4.5	(2.6)	5.0	(2.6)
	AECB	8.9	(5.6)	0.5	(0.3)	0.3	(0.1)
	Agr	1.7	(1.1)	3.1	(1.8)	3.5	(1.8)
	MOT	1.6	(1.0)	2.0	(1.1)	2.5	(1.3)
	Other	10.8	(6.8)	9.0	(5.2)	10.7	(5.5)
	TOTAL	159.2	(100.0)	172.7	(100.0)	194.9	(100.0)

NON-PROFIT INSTITUTIONS	ITC	0.9	(11.4)	4.6	(34.1)	1.5	(14.6)
	NHW	1.2	(14.5)	1.8	(13.5)	2.3	(22.5)
	PCO	0.9	(11.4)	2.3	(16.8)	1.6	(15.9)
	DOE	1.0	(11.6)	1.4	(10.4)	1.4	(14.2)
	MUA	1.4	(16.9)	0.6	(4.1)	0.4	(4.3)
	NRC	0.8	(10.3)	0.7	(5.3)	0.8	(7.5)
	INA	0.8	(9.4)	0.8	(5.6)	0.7	(6.9)
	EMR	0.4	(5.1)	0.2	(1.8)	0.2	(2.3)
	Other	0.8	(9.5)	1.1	(8.4)	1.2	(11.8)
	TOTAL	8.2	(100.0)	13.6	(100.0)	10.1	(100.0)

FOREIGN	CIDA	15.5	(36.6)	16.3	(38.4)	20.5	(46.2)
	IDRC	14.7	(34.7)	15.2	(36.0)	15.6	(35.1)
	NRC	6.9	(16.4)	5.9	(13.9)	3.1	(6.9)
	MRC	2.3	(5.5)	2.2	(5.1)	2.4	(5.5)
	DND	1.4	(3.4)	1.5	(3.6)	2.1	(4.7)
	NHW	0.3	(0.7)	0.2	(0.5)	0.3	(0.6)
	DOC	0.8	(1.8)	---	(---)	---	(---)
	DOE	0.2	(0.4)	0.2	(0.5)	0.2	(0.5)
	Other	0.2	(0.6)	0.8	(1.8)	0.2	(0.4)
	TOTAL	42.3	(100.0)	42.4	(100.0)	44.4	(100.0)

OTHER CANADIAN	EMR	2.2	(12.1)	2.9	(13.3)	14.6	(38.0)
	NHW	5.5	(30.7)	6.3	(29.2)	6.5	(16.9)
	MOT	1.0	(5.3)	1.9	(8.8)	4.0	(10.3)
	DOE	1.1	(6.4)	1.7	(7.9)	1.8	(4.8)
	INA	1.1	(6.3)	1.2	(5.4)	1.2	(3.1)
	Jus	0.9	(4.8)	1.0	(4.7)	1.6	(4.1)
	DOC	0.9	(4.9)	1.0	(4.6)	1.2	(3.1)
	MUA	0.7	(4.0)	0.4	(2.0)	1.7	(4.4)
	Other	4.5	(25.4)	5.2	(24.0)	5.9	(15.3)
	TOTAL	17.8	(100.0)	21.6	(100.0)	38.5	(100.0)

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 13

NATURAL AND HUMAN SCIENCES

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT
 IN CANADIAN UNIVERSITIES AND NON-PROFIT INSTITUTIONS
 BY DEPARTMENT OR AGENCY, 1975-1978

(\$ MILLIONS)

DEPARTMENT OR AGENCY	1975-76		1976-77		1977-78	
	GRANTS	CONTRACTS	GRANTS	CONTRACTS	GRANTS	CONTRACTS
NRC	66.7	0.2	80.2	0.4	91.7	0.5
MRC	41.4	---	45.4	---	50.7	---
NHW	9.6	0.1	13.7	0.1	15.4	0.2
CC	8.2	---	8.7	---	9.6	---
DOE	2.6	2.3	3.6	2.2	4.0	2.4
AECB	8.8	0.1	---	0.5	---	0.3
ITC	1.5	---	5.1	---	1.9	---
Agr	1.1	0.5	1.9	1.2	1.8	1.7
DND	2.4	0.6	0.6	0.8	0.6	1.1
EMR	1.5	0.3	1.3	0.3	1.5	0.8
MOT	0.5	0.9	0.7	1.1	0.9	1.4
PCO	0.9	0.1	2.0	0.3	1.0	0.6
INA	0.3	1.2	0.3	1.2	0.3	1.1
MUA	1.4	0.4	0.8	0.3	0.6	0.3
DSS	---	1.1	---	1.1	---	1.3
SofS	0.7	0.1	0.7	---	0.9	---
IDRC	0.6	---	0.8	---	0.8	---
SG	0.1	0.2	0.2	0.7	0.2	0.7
DOC	---	0.7	---	0.6	---	0.6
AECL	---	0.6	---	0.4	---	0.6
Other	0.5	0.6	0.3	0.6	0.4	0.7
TOTAL	149.0	9.9	166.3	11.9	182.2	14.2

HISTOGRAM 13

NATURAL AND HUMAN SCIENCES

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT
IN CANADIAN UNIVERSITIES AND NON-PROFIT INSTITUTIONS
BY DEPARTMENT OR AGENCY, 1975-1978

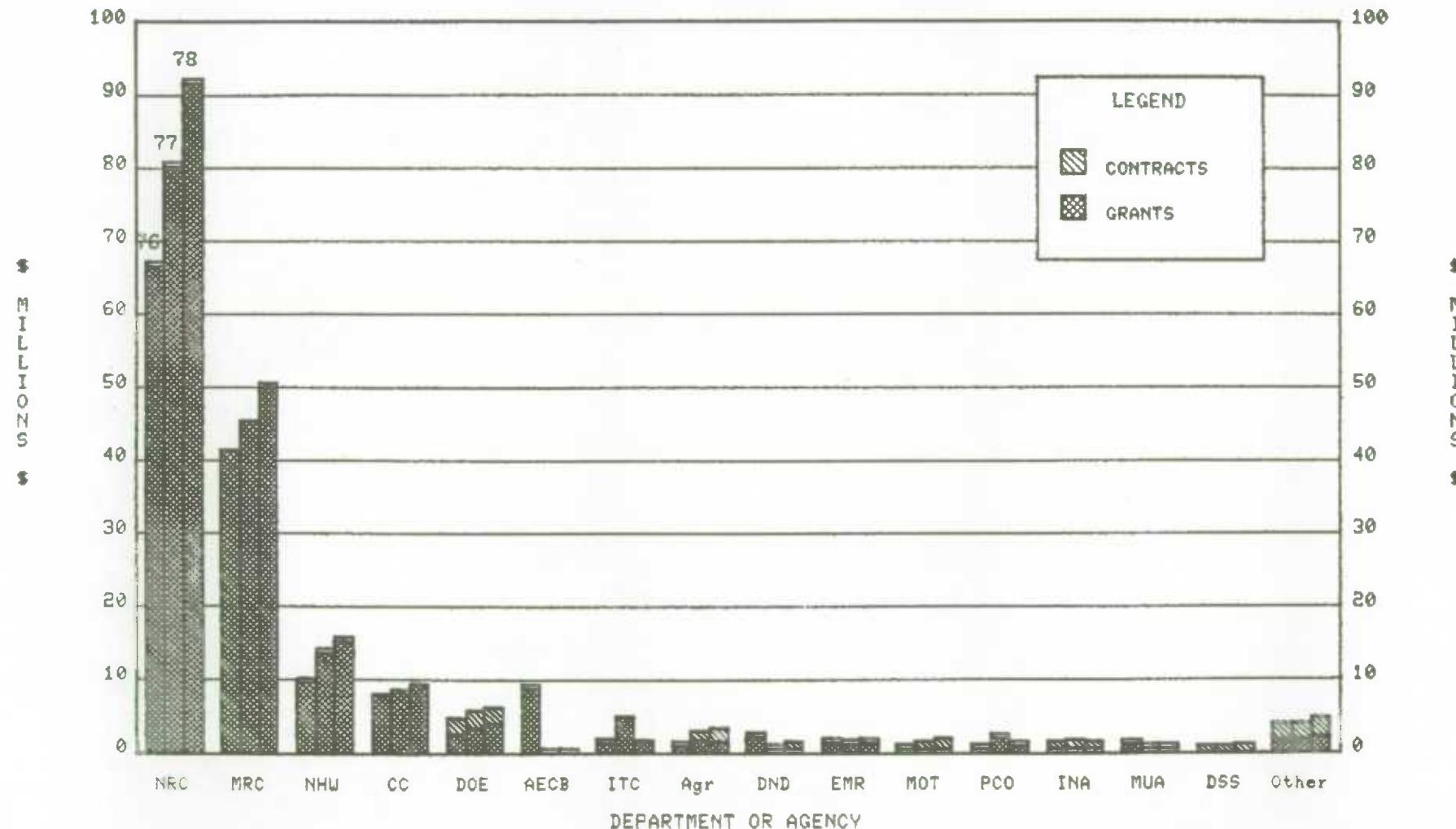


TABLE 14

NATURAL AND HUMAN SCIENCES

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT
IN CANADIAN INDUSTRY
BY DEPARTMENT OR AGENCY, 1975-1978

(\$ MILLIONS)

DEPARTMENT OR AGENCY	1975-76		1976-77		1977-78	
	GRANTS	CONTRACTS	GRANTS	CONTRACTS	GRANTS	CONTRACTS
ITC	91.9	0.2	106.3	0.1	75.2	0.1
NRC	14.1	8.2	15.2	25.6	16.6	32.1
AECL	---	24.2	---	28.2	---	30.8
DND	1.7	11.4	---	14.2	---	17.1
DOE	---	5.3	---	6.4	---	8.2
DSS	---	5.5	---	6.1	---	6.9
MOT	---	3.6	---	7.7	---	7.1
EMR	---	2.3	---	4.3	---	9.2
DOC	---	8.5	---	2.8	---	2.8
CMHC	--	0.3	2.3	0.1	4.8	0.3
UIC	---	0.9	---	1.0	---	1.1
M&I	---	0.8	---	1.0	---	1.0
DREE	0.2	0.1	1.0	0.2	1.0	0.2
CTC	---	0.7	---	0.8	---	0.8
Agr	--	0.2	0.1	0.5	0.1	0.7
INA	---	0.6	---	0.5	---	0.6
MUA	---	0.9	---	0.4	---	0.3
SG	---	0.1	---	0.4	---	0.5
DPW	---	0.2	---	0.4	---	0.4
CCA	---	0.1	---	0.2	---	0.3
Other	0.2	0.5	0.2	0.7	0.2	0.8
TOTAL	108.2	74.7	125.1	101.5	98.0	121.3

HISTOGRAM 14

NATURAL AND HUMAN SCIENCES

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT

IN CANADIAN INDUSTRY

BY DEPARTMENT OR AGENCY, 1975-1978

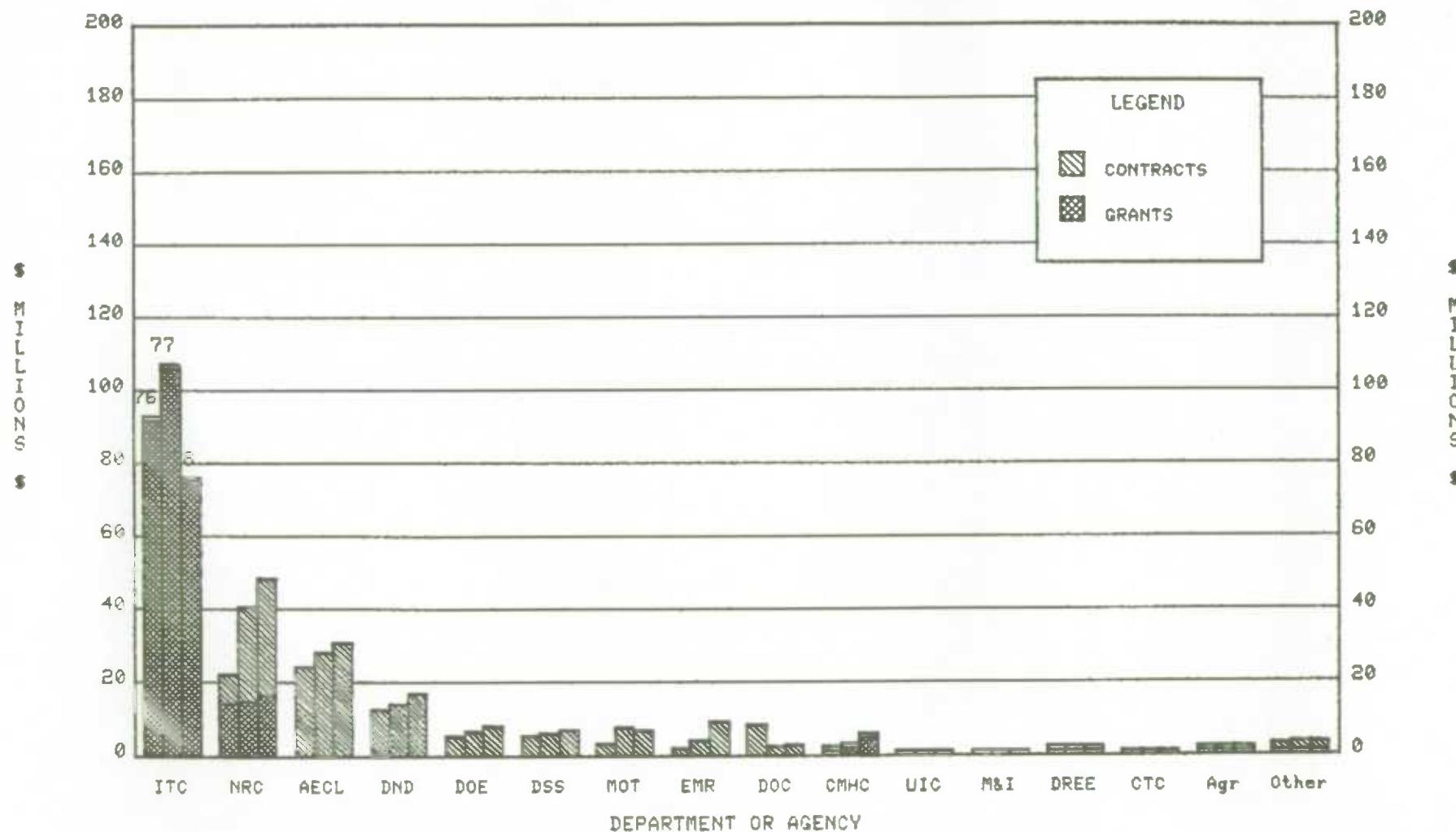


TABLE 15

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES
BY PERFORMER, 1975-1978

(\$ MILLIONS)

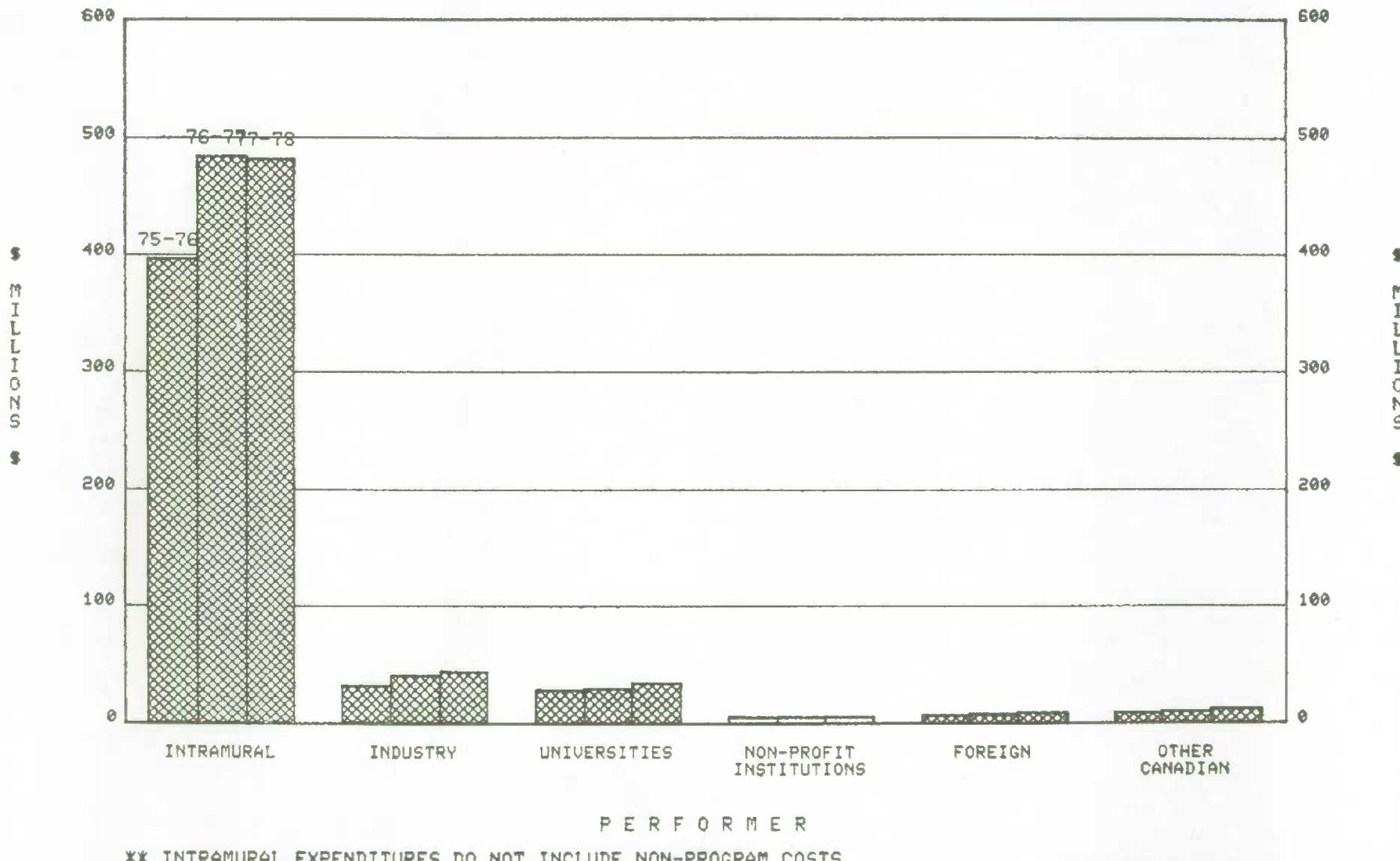
PERFORMER	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
INTRAMURAL	397.0	(83.1)	484.0	(83.7)	481.7	(82.2)
INDUSTRY	31.5	(6.6)	40.1	(6.9)	43.4	(7.4)
UNIVERSITIES	28.7	(6.0)	30.0	(5.2)	34.3	(5.9)
NON-PROFIT INSTITUTIONS	5.2	(1.1)	5.0	(0.9)	5.2	(0.9)
FOREIGN	6.7	(1.4)	8.1	(1.4)	9.3	(1.6)
OTHER CANADIAN	8.8	(1.8)	10.8	(1.9)	12.0	(2.1)
TOTAL	477.8	(100.0)	577.9	(100.0)	586.0	(100.0)

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 15

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES
BY PERFORMER, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 16

NATURAL AND HUMAN SCIENCES

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY, 1975-1978

(\$ MILLIONS)

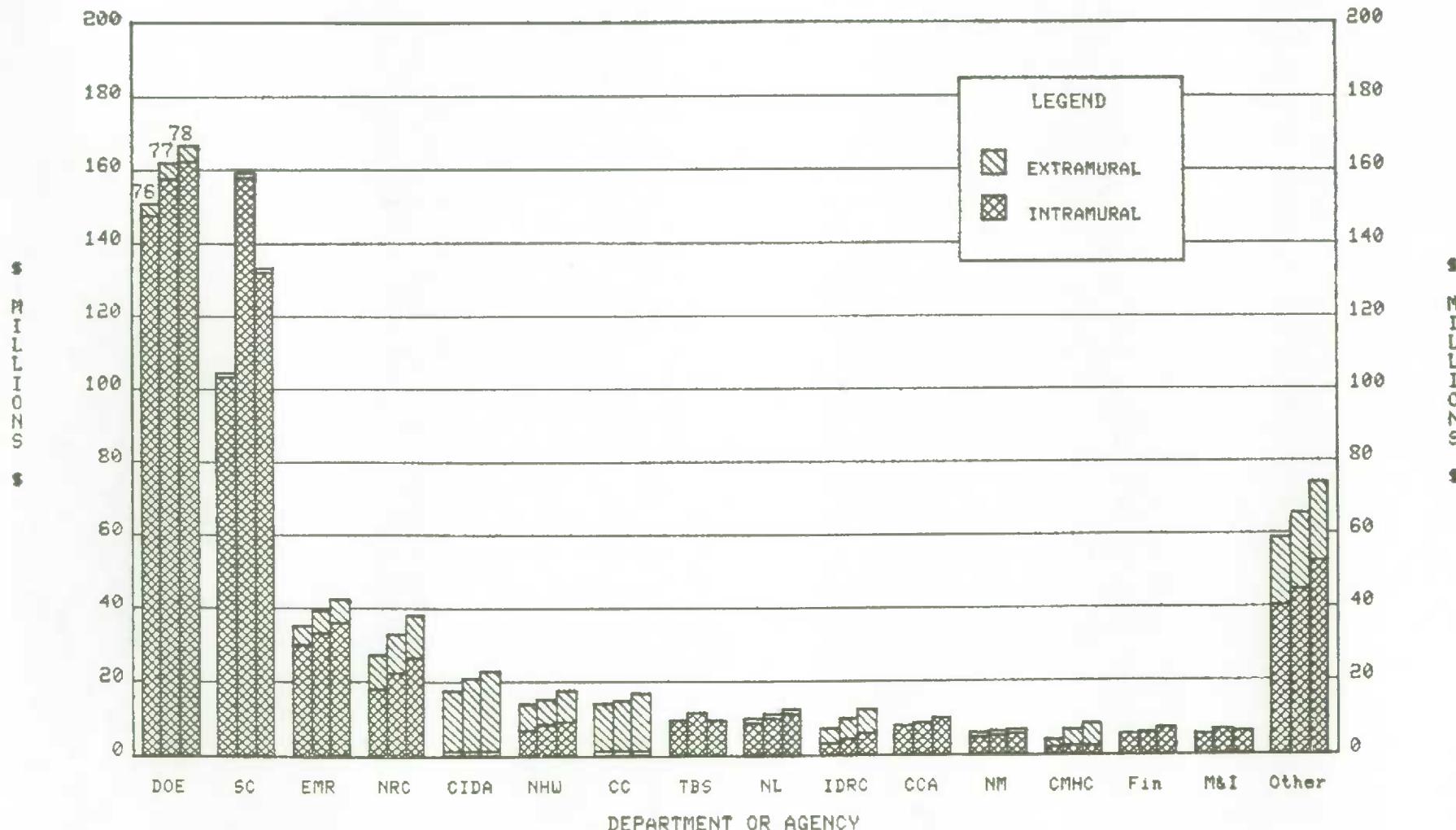
DEPARTMENT OR AGENCY	1975-76			1976-77			1977-78		
	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
DOE	147.6	3.2	150.8	157.6	4.5	162.1	162.7	4.1	166.8
SC	103.2	--	103.2	158.4	--	158.4	132.3	--	132.3
EMR	30.2	5.2	35.4	33.2	6.2	39.4	36.1	6.6	42.7
NRC	18.0	9.6	27.6	22.4	10.5	32.9	26.5	11.5	38.0
CIDA	0.8	16.7	17.5	0.9	20.0	20.9	1.1	22.0	23.1
NHW	7.1	7.0	14.1	8.6	6.7	15.3	9.6	8.2	17.8
CC	0.7	13.1	13.8	1.0	14.0	15.0	1.1	15.9	17.0
TBS	10.0	---	10.0	11.8	---	11.8	9.8	---	9.8
NL	8.9	--	8.9	10.3	--	10.3	11.5	--	11.5
IDRC	3.3	4.1	7.3	4.8	5.2	10.0	6.3	6.5	12.8
CCA	8.0	---	8.0	8.9	---	8.9	10.3	---	10.3
NM	4.9	1.4	6.3	5.3	1.5	6.8	5.7	1.7	7.4
CMHC	2.0	2.3	4.3	2.5	4.5	7.0	2.6	6.1	8.7
Fin	5.7	---	5.7	6.4	---	6.4	7.2	---	7.2
M&I	5.9	---	5.9	6.9	---	6.9	6.5	---	6.5
PA	5.4	---	5.4	5.6	---	5.6	7.5	---	7.5
MOT	1.1	3.4	4.5	2.2	3.2	5.4	2.3	3.4	5.7
DND	4.3	---	4.3	4.4	---	4.4	4.9	---	4.9
MUA	0.9	2.4	3.3	1.1	4.0	5.1	1.4	3.4	4.8
Agr	3.9	--	3.9	4.5	--	4.5	4.6	--	4.6
SofS	1.4	1.5	2.9	1.9	1.8	3.7	3.2	2.0	5.2
DOC	2.2	1.0	3.2	2.7	1.1	3.8	2.8	1.1	3.9
EA	2.6	1.6	4.2	1.7	1.2	2.9	1.9	1.4	3.3
MSST	2.3	0.3	2.6	3.2	0.4	3.6	3.7	0.4	4.1
DSS	0.1	2.3	2.4	0.1	3.2	3.3	0.2	3.7	3.8
AECL	2.6	--	2.6	2.7	---	2.7	2.9	---	2.9
INA	1.2	0.3	1.5	1.6	0.5	2.1	2.2	0.6	2.7
CBC	0.7	0.9	1.7	0.8	1.2	1.9	0.9	1.2	2.1
NR	1.3	---	1.3	1.8	---	1.8	2.2	---	2.2
ITC	0.4	1.2	1.6	0.4	1.2	1.7	0.5	1.3	1.8
Other	10.1	3.4	13.5	10.2	3.0	13.2	11.2	3.2	14.4
TOTAL	397.0	80.9	477.8	484.0	93.9	577.9	481.7	104.3	586.0

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 16

NATURAL AND HUMAN SCIENCES

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES
BY DEPARTMENT OR AGENCY, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

2

Natural Sciences

TABLE 17

NATURAL SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY PERFORMER, 1975-1978

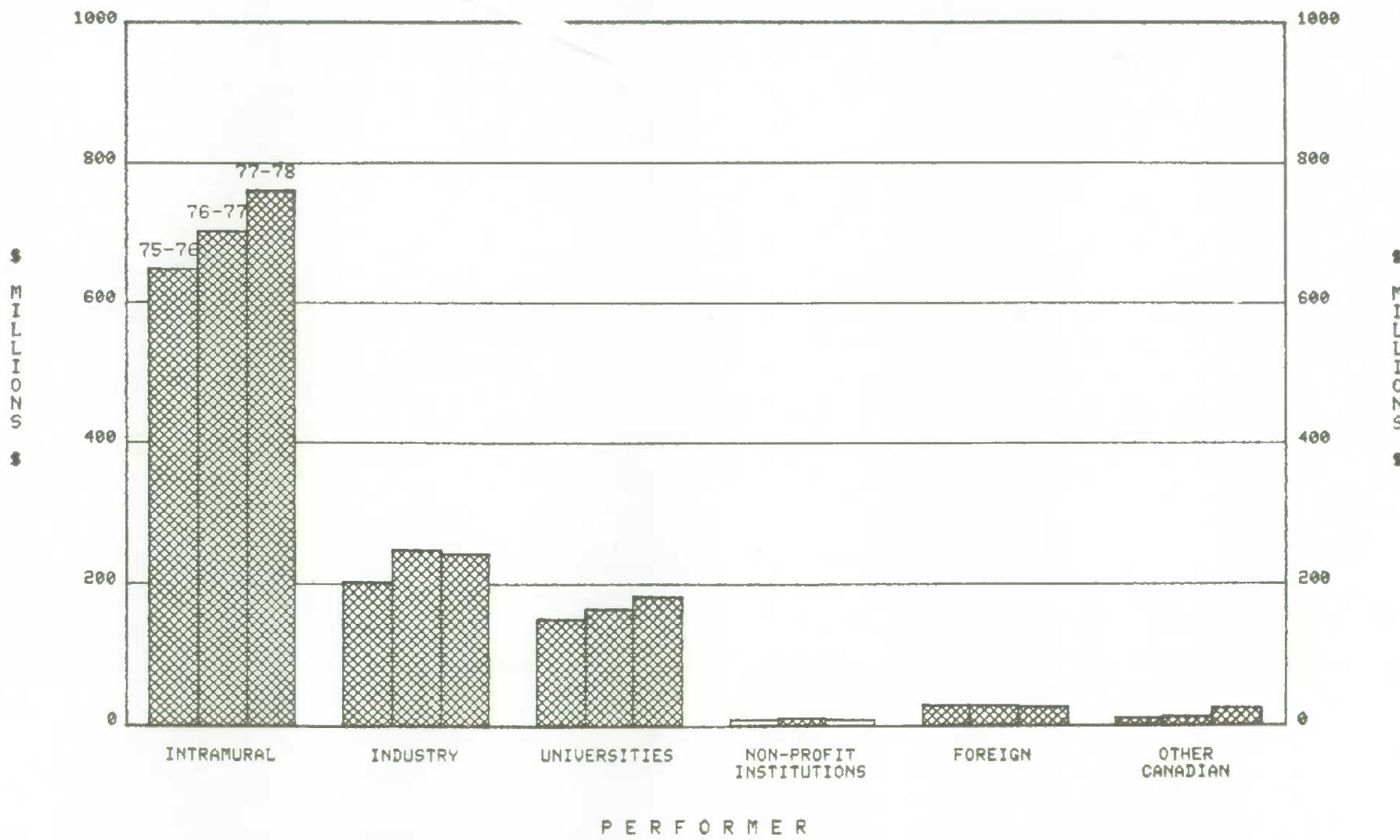
(\$ MILLIONS)

PERFORMER	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
INTRAMURAL	648.4	(61.9)	703.9	(60.3)	761.4	(61.0)
INDUSTRY	202.6	(19.3)	249.1	(21.3)	243.4	(19.5)
UNIVERSITIES	151.6	(14.5)	164.2	(14.1)	183.4	(14.7)
NON-PROFIT INSTITUTIONS	6.0	(0.6)	10.3	(0.9)	7.8	(0.6)
FOREIGN	29.4	(2.8)	28.1	(2.4)	27.3	(2.2)
OTHER CANADIAN	10.3	(1.0)	12.2	(1.0)	24.1	(1.9)
TOTAL	1,048.3	(100.0)	1,167.8	(100.0)	1,247.5	(100.0)

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 17
NATURAL SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY PERFORMER, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 18

NATURAL SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY PERFORMER, BY ACTIVITY, 1975-1978

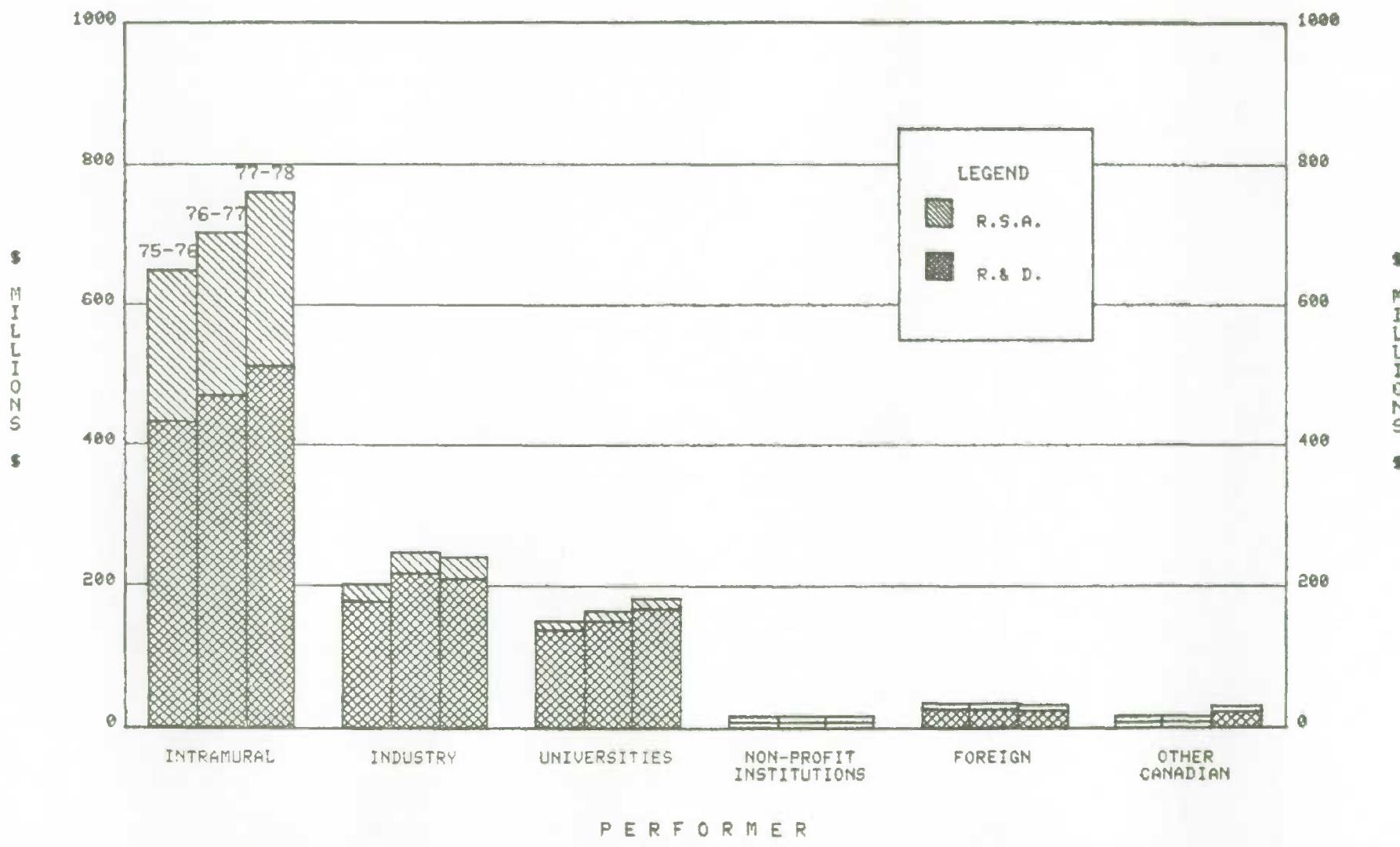
(\$ MILLIONS)

PERFORMER	1975-76			1976-77			1977-78		
	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
INTRAMURAL	433.9	214.6	648.4	470.4	233.5	703.9	513.4	248.0	761.4
INDUSTRY	178.2	24.4	202.6	219.7	29.4	249.1	210.5	32.9	243.4
UNIVERSITIES	139.6	12.0	151.6	151.6	12.7	164.2	169.6	13.9	183.4
NON-PROFIT INSTITUTIONS	4.7	1.3	6.0	8.9	1.4	10.3	6.2	1.6	7.8
FOREIGN	27.4	2.0	29.4	26.0	2.1	28.1	25.2	2.1	27.3
OTHER CANADIAN	6.9	3.4	10.3	9.5	2.7	12.2	22.2	2.0	24.1
TOTAL	790.7	257.6	1,048.3	886.1	281.7	1,167.8	947.1	300.4	1,247.5

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 18
NATURAL SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY PERFORMER, BY ACTIVITY, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 19

NATURAL SCIENCES

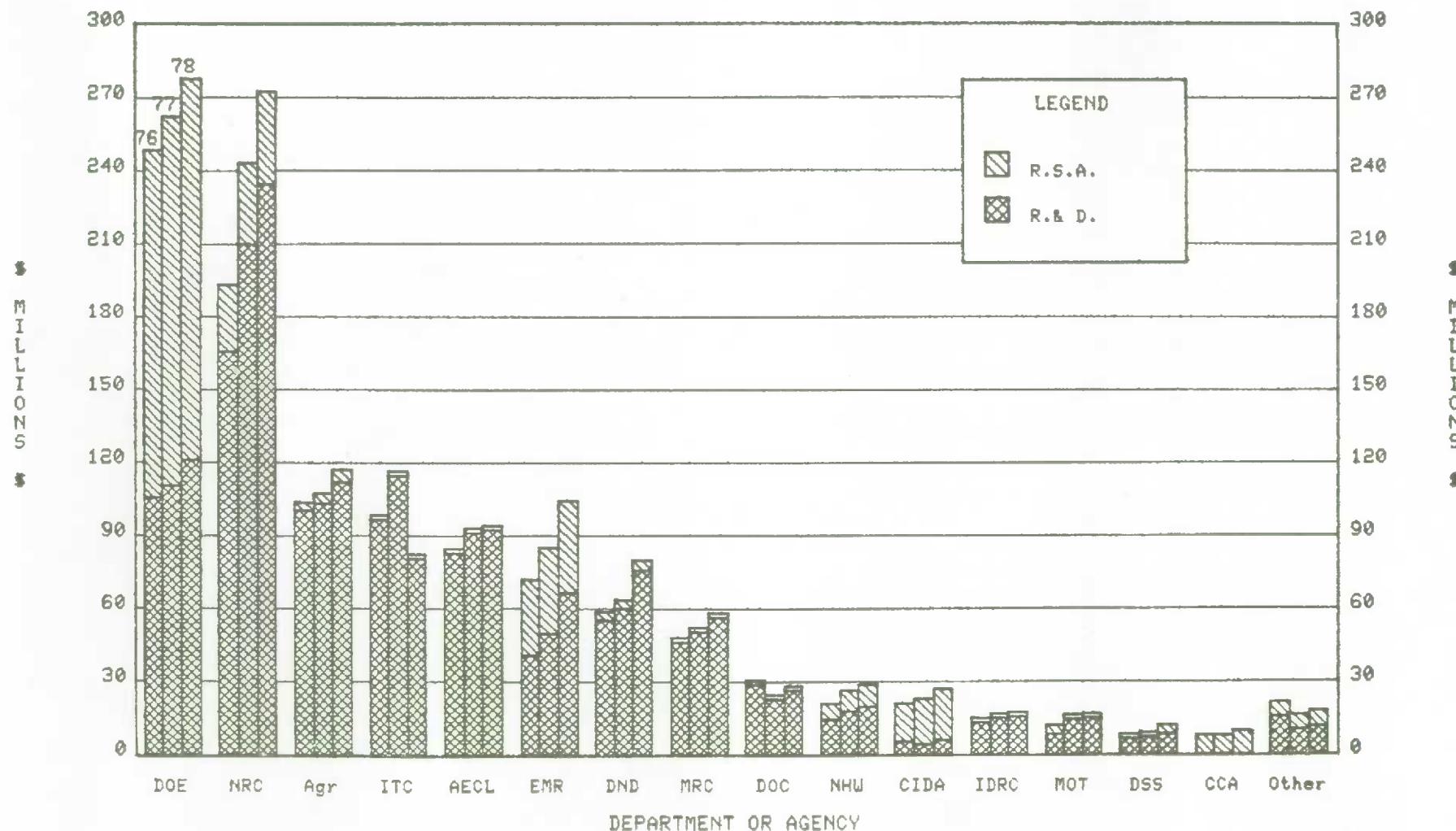
FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
 BY DEPARTMENT OR AGENCY, BY ACTIVITY, 1975-1978
 (\$ MILLIONS)

DEPARTMENT OR AGENCY	1975-76			1976-77			1977-78		
	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
DOE	105.7	143.0	248.6	110.9	151.7	262.6	121.4	156.5	277.9
NRC	166.0	27.6	193.6	210.2	32.9	243.1	234.7	38.0	272.7
Agr	100.4	3.9	104.3	103.4	4.5	107.9	112.5	4.6	117.1
ITC	96.7	0.8	97.5	114.8	1.1	115.9	80.8	1.2	82.0
AECL	83.3	2.6	86.0	91.3	2.7	94.0	92.9	2.9	95.8
EMR	41.2	31.4	72.6	50.4	35.0	85.4	66.9	37.7	104.7
DND	55.5	3.7	59.2	60.3	3.7	64.0	76.1	4.1	80.2
MRC	46.8	1.7	48.4	50.6	1.4	52.1	56.4	1.6	58.1
DOC	29.0	0.5	29.5	22.8	0.5	23.3	26.9	0.5	27.4
NHW	14.6	6.5	21.1	18.5	8.1	26.5	19.9	8.9	28.9
CIDA	5.8	15.3	21.1	4.5	18.6	23.1	6.5	20.5	27.1
IDRC	13.6	1.9	15.5	15.3	2.0	17.3	15.7	2.1	17.8
MOT	9.0	3.1	12.1	14.9	1.9	16.8	15.5	1.9	17.4
DSS	7.1	2.2	9.3	7.7	2.9	10.6	8.9	3.3	12.2
CCA	---	7.9	7.9	---	8.4	8.4	---	9.8	9.8
NM	1.2	1.9	3.1	1.4	2.1	3.5	1.6	2.2	3.9
AECB	9.0	---	9.0	0.6	---	0.6	0.6	---	0.6
CMHC	0.8	0.8	1.6	2.6	0.7	3.4	3.9	0.8	4.8
DPW	1.3	1.4	2.7	1.9	1.7	3.6	1.7	1.5	3.3
INA	2.5	0.2	2.7	2.2	0.3	2.5	2.2	0.6	2.8
NEB	---	1.1	1.1	---	1.2	1.2	---	1.2	1.2
DREE	0.2	---	0.2	1.0	---	1.0	1.0	---	1.0
NFB	0.3	0.1	0.4	0.3	0.2	0.5	0.4	0.1	0.5
CBC	0.3	---	0.3	0.3	---	0.3	0.4	---	0.4
DVA	0.4	---	0.4	---	---	---	---	---	---
Other	0.1	---	0.1	0.1	---	0.1	0.1	---	0.1
TOTAL	790.7	257.6	1,048.3	886.1	281.7	1,167.8	947.1	300.4	1,247.5

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 19
NATURAL SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY DEPARTMENT OR AGENCY, BY ACTIVITY, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 20

NATURAL SCIENCES

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY, 1975-1978

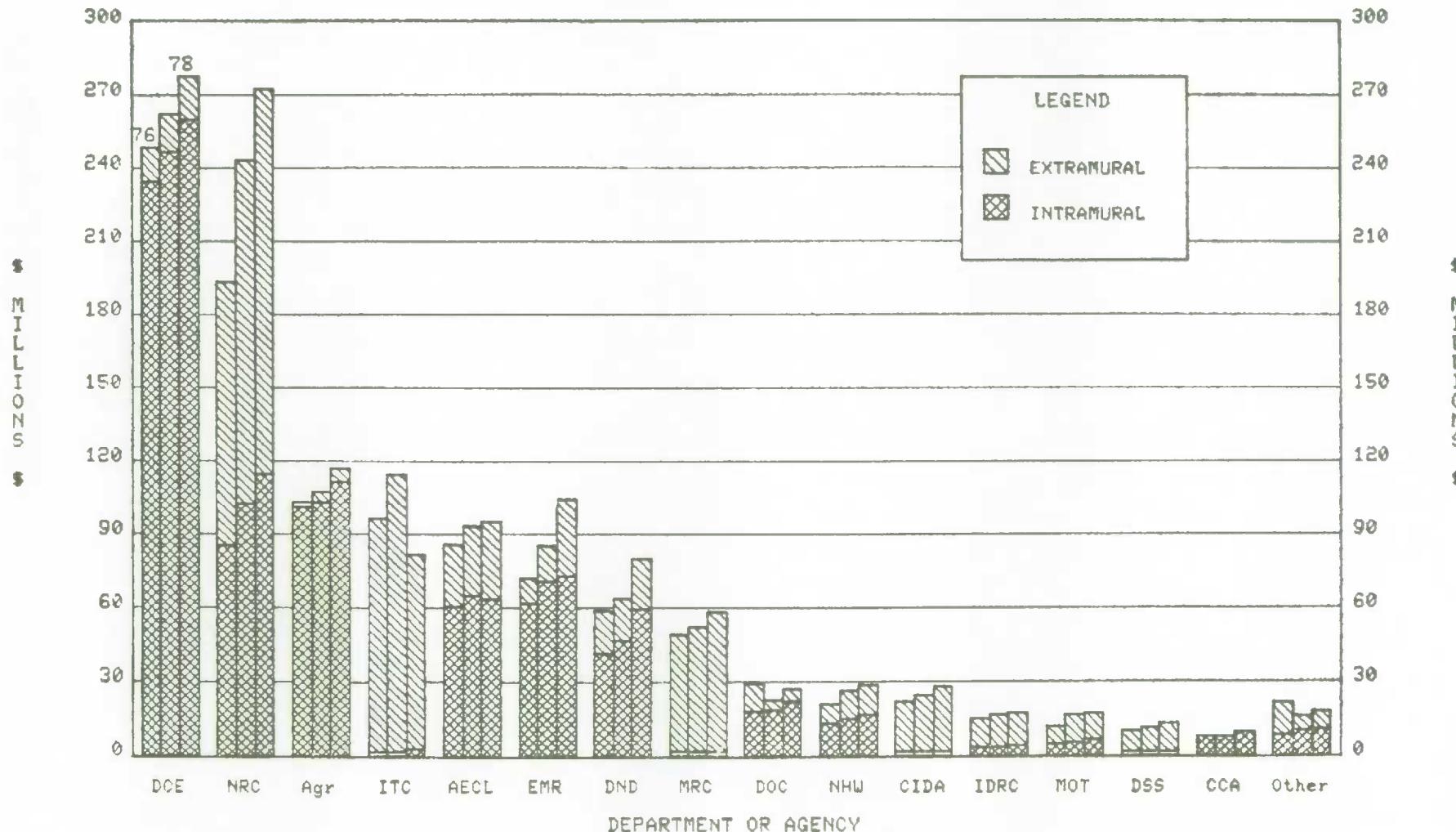
(\$ MILLIONS)

DEPARTMENT OR AGENCY	1975-76			1976-77			1977-78		
	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
DOE	234.9	13.7	248.6	246.8	15.8	262.6	260.1	17.8	277.9
NRC	85.3	108.2	193.6	103.0	140.1	243.1	115.1	157.6	272.7
Agr	102.0	2.3	104.3	103.3	4.5	107.9	111.7	5.4	117.1
ITC	2.7	94.8	97.5	3.0	113.0	115.9	3.2	78.8	82.0
AECL	60.7	25.3	86.0	65.1	28.9	94.0	64.0	31.8	95.8
EMR	62.1	10.5	72.6	70.9	14.5	85.4	73.2	31.4	104.7
DND	41.9	17.3	59.2	46.9	17.0	64.0	59.5	20.7	80.2
MRC	1.0	47.4	48.4	1.2	50.8	52.1	1.3	56.7	58.1
DOC	18.4	11.1	29.5	18.7	4.7	23.3	22.5	4.9	27.4
NHW	13.4	7.7	21.1	15.5	11.1	26.5	17.0	11.9	28.9
CIDA	0.3	20.8	21.1	0.3	22.8	23.1	0.4	26.6	27.1
IDRC	3.6	11.9	15.5	4.1	13.2	17.3	4.7	13.1	17.8
MOT	4.9	7.2	12.1	5.7	11.1	16.8	6.7	10.7	17.4
DSS	0.6	8.8	9.3	0.6	10.0	10.6	0.8	11.4	12.2
CCA	7.9	---	7.9	8.4	---	8.4	9.8	---	9.8
NM	2.6	0.5	3.1	3.0	0.5	3.5	3.3	0.6	3.9
AECB	---	9.0	9.0	---	0.6	0.6	0.1	0.5	0.6
CMHC	0.9	0.7	1.6	1.6	1.8	3.4	1.7	3.0	4.8
DPW	2.1	0.6	2.7	2.7	0.8	3.6	2.5	0.7	3.3
INA	0.8	1.8	2.7	0.9	1.6	2.5	1.3	1.5	2.8
NEB	1.1	---	1.1	1.2	---	1.2	1.2	---	1.2
DREE	---	0.2	0.2	---	1.0	1.0	---	1.0	1.0
NFB	0.4	---	0.4	0.5	---	0.5	0.5	---	0.5
CBC	0.3	---	0.3	0.3	---	0.3	0.4	---	0.4
DVA	0.4	---	0.4	---	---	---	---	---	---
Other	0.1	---	0.1	0.1	---	0.1	0.1	---	0.1
TOTAL	648.4	399.8	1,048.3	703.9	463.9	1,167.8	761.4	486.1	1,247.5

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 20

NATURAL SCIENCES

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY DEPARTMENT OR AGENCY, 1975-1978

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 21
NATURAL SCIENCES
FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY PERFORMER, BY FUNDING DEPARTMENT OR AGENCY, 1975-1978
(\$ MILLIONS)

PERFORMER	DEPT. OR AGENCY	1975-76		1976-77		1977-78	
		\$	%	\$	%	\$	%
INTRAMURAL	DOE	234.9	(36.2)	246.8	(35.1)	260.1	(34.2)
*****	Agr	102.0	(15.7)	103.3	(14.7)	111.7	(14.7)
	NRC	85.3	(13.2)	103.0	(14.6)	115.1	(15.1)
	EMR	62.1	(9.6)	70.9	(10.1)	73.2	(9.6)
	AECL	60.7	(9.4)	65.1	(9.2)	64.0	(8.4)
	DND	41.9	(6.5)	46.9	(6.7)	59.5	(7.8)
	DOC	18.4	(2.8)	18.7	(2.7)	22.5	(3.0)
	NHW	13.4	(2.1)	15.5	(2.2)	17.0	(2.2)
	Other	29.8	(4.6)	33.7	(4.8)	38.2	(5.0)
	TOTAL	648.4	(100.0)	703.9	(100.0)	761.4	(100.0)
EXTRAMURAL	ITC	92.2	(45.5)	106.5	(42.8)	75.4	(31.0)
*****	NRC	23.1	(11.4)	42.0	(16.9)	50.3	(20.7)
INDUSTRY	AECL	24.2	(12.0)	28.2	(11.3)	30.8	(12.7)
	CIDA	14.0	(6.9)	17.4	(7.0)	19.1	(7.9)
	DND	13.1	(6.4)	14.2	(5.7)	17.0	(7.0)
	EMR	7.0	(3.5)	10.1	(4.0)	15.4	(6.3)
	DSS	7.3	(3.6)	8.5	(3.4)	9.7	(4.0)
	DOE	6.9	(3.4)	7.5	(3.0)	9.4	(3.9)
	Other	14.8	(7.3)	14.8	(5.9)	16.2	(6.6)
	TOTAL	202.6	(100.0)	249.1	(100.0)	243.4	(100.0)
UNIVERSITIES	NRC	75.6	(49.9)	89.8	(54.6)	101.5	(55.3)
	MRC	45.0	(29.7)	48.6	(29.6)	54.2	(29.5)
	NHW	6.1	(4.1)	9.4	(5.7)	9.8	(5.3)
	DOE	3.9	(2.6)	4.3	(2.6)	4.4	(2.4)
	AECB	8.9	(5.9)	0.5	(0.3)	0.3	(0.2)
	Agr	1.7	(1.1)	3.1	(1.9)	3.4	(1.9)
	DND	2.8	(1.8)	1.2	(0.8)	1.4	(0.8)
	EMR	1.4	(0.9)	1.3	(0.8)	2.0	(1.1)
	Other	6.3	(4.1)	6.1	(3.7)	6.5	(3.5)
	TOTAL	151.6	(100.0)	164.2	(100.0)	183.4	(100.0)

NON-PROFIT INSTITUTIONS	ITC	1.2	(19.3)	4.9	(48.1)	1.8	(23.2)
	NHW	1.1	(19.2)	1.4	(13.9)	1.8	(23.4)
	NRC	1.5	(25.0)	1.3	(12.5)	1.3	(17.3)
	DOE	1.0	(16.4)	1.4	(13.8)	1.4	(18.5)
	INA	0.5	(8.4)	0.4	(3.8)	0.3	(3.9)
	EMR	0.5	(8.9)	0.3	(3.2)	0.3	(4.2)
	DSS	---	(---)	0.3	(3.0)	0.4	(4.6)
	DND	0.1	(1.2)	0.1	(1.0)	0.2	(2.2)
	Other	0.1	(1.6)	0.1	(0.7)	0.2	(2.7)
	TOTAL	6.0	(100.0)	10.3	(100.0)	7.8	(100.0)

FOREIGN	IDRC	11.3	(38.5)	12.6	(44.7)	12.4	(45.2)
	NRC	7.5	(25.4)	6.5	(23.0)	3.6	(13.3)
	CIDA	5.7	(19.5)	4.5	(15.9)	6.4	(23.6)
	MRC	2.4	(8.0)	2.2	(7.8)	2.5	(9.0)
	DND	1.4	(4.8)	1.5	(5.4)	2.1	(7.5)
	DOC	0.8	(2.5)	---	(---)	---	(---)
	DOE	0.2	(0.6)	0.2	(0.8)	0.2	(0.8)
	MOT	- -	(- -)	0.5	(1.8)	- -	(- -)
	Other	0.1	(0.5)	0.2	(0.8)	0.1	(0.5)
	TOTAL	29.4	(100.0)	28.1	(100.0)	27.3	(100.0)

OTHER CANADIAN	EMR	1.6	(15.3)	2.7	(22.4)	13.7	(56.9)
	DOE	1.8	(17.1)	2.3	(19.1)	2.4	(9.8)
	MOT	2.1	(20.3)	1.6	(13.0)	1.6	(6.7)
	DOC	0.9	(8.5)	1.0	(8.2)	1.2	(5.0)
	ITC	1.0	(9.6)	0.9	(7.4)	0.9	(3.9)
	CMHC	0.4	(4.3)	0.9	(7.7)	1.1	(4.5)
	Agr	0.4	(3.8)	0.8	(6.3)	1.1	(4.8)
	NRC	0.5	(5.2)	0.7	(5.6)	0.7	(3.0)
	Other	1.6	(15.8)	1.2	(10.3)	1.3	(5.6)
	TOTAL	10.3	(100.0)	12.2	(100.0)	24.1	(100.0)

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 22

NATURAL SCIENCES

FEDERAL EXPENDITURES ON RESEARCH AND DEVELOPMENT
BY PERFORMER, 1975-1978

(\$ MILLIONS)

PERFORMER	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
INTRAMURAL	433.9	(54.9)	470.4	(53.1)	513.4	(54.2)
INDUSTRY	178.2	(22.5)	219.7	(24.8)	210.5	(22.2)
UNIVERSITIES	139.6	(17.7)	151.6	(17.1)	169.6	(17.9)
NON-PROFIT INSTITUTIONS	4.7	(0.6)	8.9	(1.0)	6.2	(0.7)
FOREIGN	27.4	(3.5)	26.0	(2.9)	25.2	(2.7)
OTHER CANADIAN	6.9	(0.9)	9.5	(1.1)	22.2	(2.3)
TOTAL	790.7	(100.0)	886.1	(100.0)	947.1	(100.0)

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 22
NATURAL SCIENCES

FEDERAL EXPENDITURES ON RESEARCH AND DEVELOPMENT
BY PERFORMER, 1975-1978

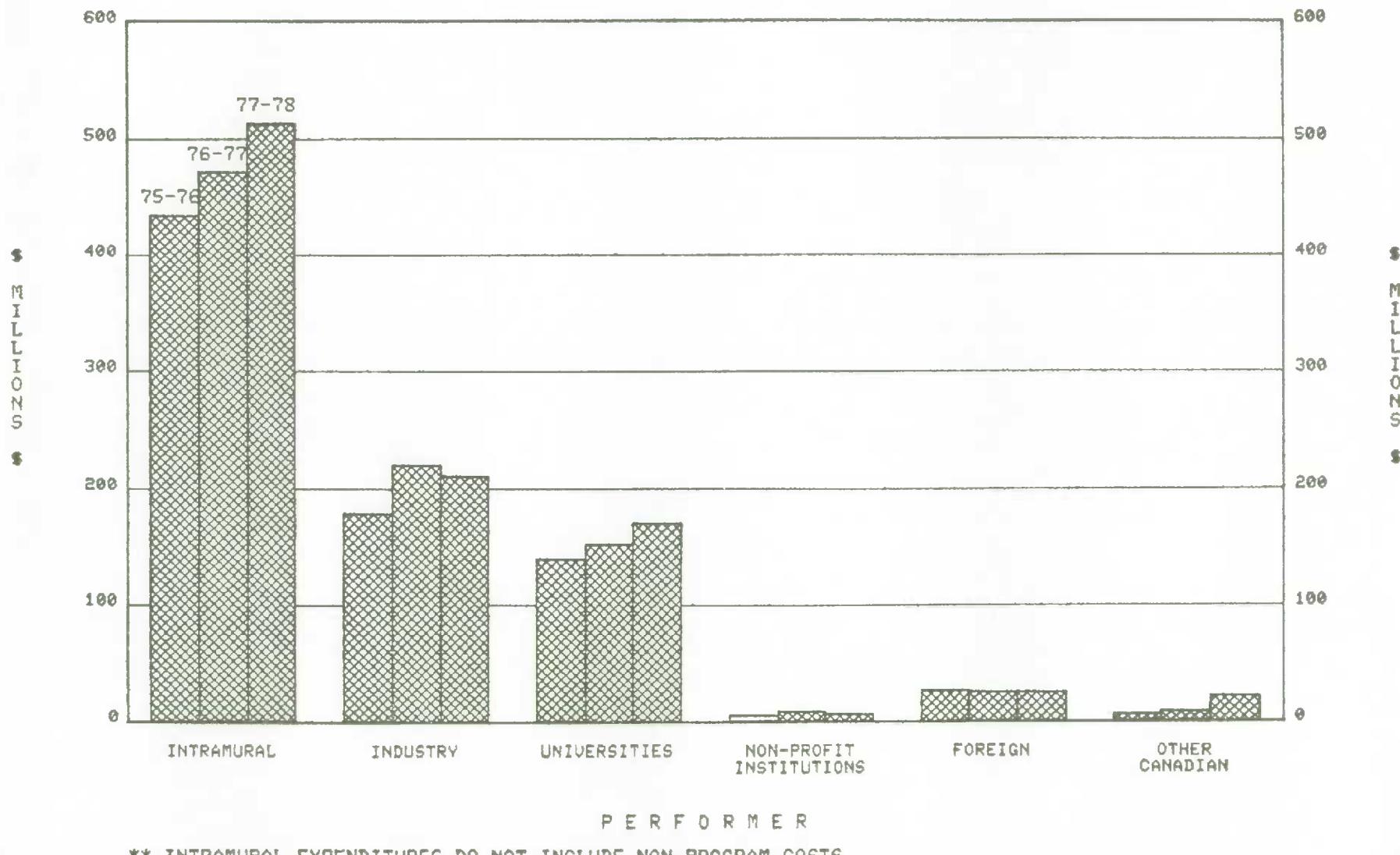


TABLE 23

NATURAL SCIENCES

FEDERAL EXPENDITURES ON RESEARCH AND DEVELOPMENT
BY TYPE OF FUNDING, 1975-1978

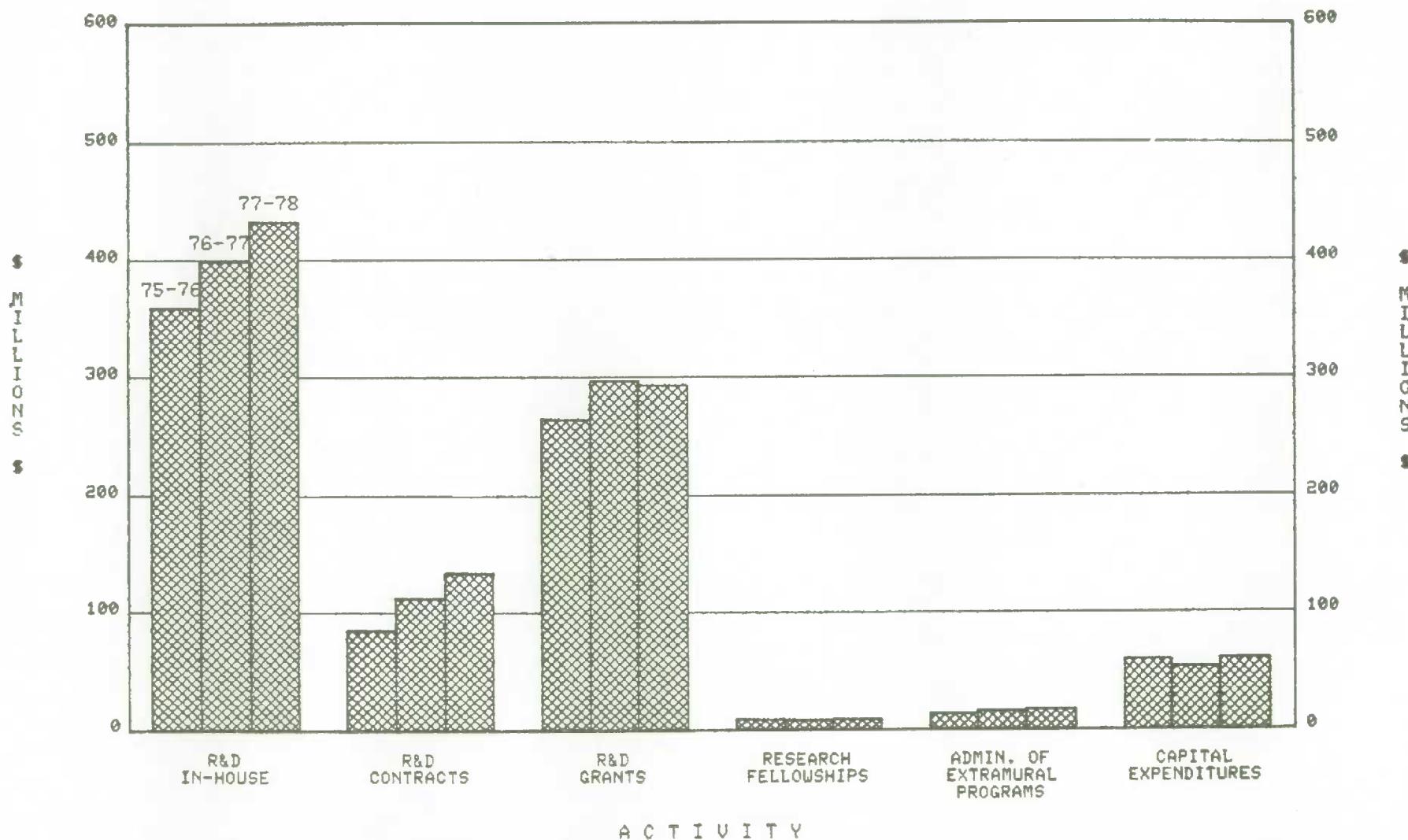
(\$ MILLIONS)

TYPE OF FUNDING	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
CURRENT	731.6	(92.5)	832.7	(94.0)	886.4	(93.6)
IN-HOUSE R&D	359.7	(45.5)	398.9	(45.0)	433.1	(45.7)
R&D CONTRACTS	84.2	(10.6)	112.1	(12.6)	133.5	(14.1)
R&D GRANTS	265.0	(33.5)	296.5	(33.5)	293.1	(30.9)
RESEARCH FELLOWSHIPS	9.4	(1.2)	8.9	(1.0)	9.0	(1.0)
ADMIN. OF EXTRAMURAL PROGRAMS	13.3	(1.7)	16.4	(1.8)	17.7	(1.9)
CAPITAL EXPENDITURES	59.1	(7.5)	53.3	(6.0)	60.6	(6.4)
TOTAL	790.7	(100.0)	886.1	(100.0)	947.1	(100.0)

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 23
NATURAL SCIENCES

FEDERAL EXPENDITURES ON RESEARCH AND DEVELOPMENT
BY TYPE OF FUNDING, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 24

NATURAL SCIENCES

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RESEARCH AND DEVELOPMENT
BY DEPARTMENT OR AGENCY, 1975-1978
(\$ MILLIONS)

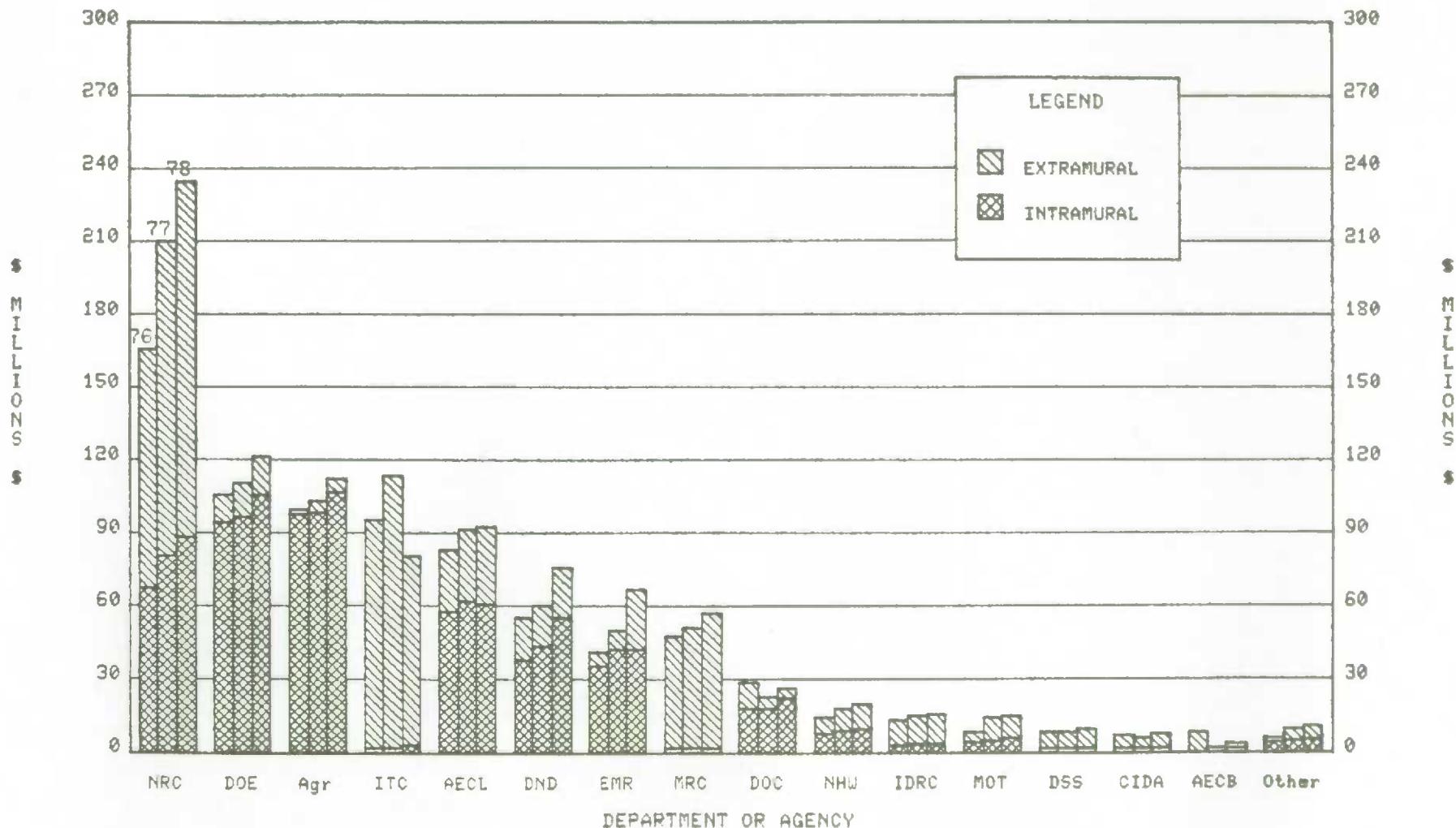
DEPARTMENT OR AGENCY	1975-76			1976-77			1977-78		
	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
NRC	67.3	98.7	166.0	80.5	129.7	210.2	88.6	146.1	234.7
DOE	94.3	11.4	105.7	97.1	13.7	110.9	105.7	15.7	121.4
Agr	98.1	2.3	100.4	98.9	4.5	103.4	107.1	5.4	112.5
ITC	2.7	94.0	96.7	3.0	111.9	114.8	3.2	77.6	80.8
AECL	58.1	25.3	83.3	62.4	28.9	91.3	61.1	31.8	92.9
DND	38.2	17.3	55.5	43.2	17.0	60.3	55.4	20.7	76.1
EMR	35.8	5.4	41.2	42.0	8.4	50.4	42.0	24.9	66.9
MRC	0.9	45.9	46.8	1.1	49.5	50.6	1.2	55.2	56.4
DOC	18.2	10.8	29.0	18.5	4.4	22.8	22.3	4.6	26.9
NHW	8.1	6.5	14.6	9.2	9.3	18.5	10.1	9.9	19.9
IDRC	3.2	10.4	13.6	3.6	11.7	15.3	4.2	11.5	15.7
MOT	4.3	4.6	9.0	5.3	9.6	14.9	6.2	9.3	15.5
DSS	0.5	6.6	7.1	0.5	7.2	7.7	0.7	8.2	8.9
CIDA	0.1	5.7	5.8	0.1	4.5	4.5	0.1	6.4	6.5
AECB	---	9.0	9.0	---	0.6	0.6	0.1	0.5	0.6
CMHC	0.4	0.5	0.8	1.0	1.6	2.6	1.0	2.9	3.9
INA	0.6	1.8	2.5	0.6	1.6	2.2	0.7	1.5	2.2
DPW	1.1	0.2	1.3	1.4	0.5	1.9	1.3	0.4	1.7
NM	1.1	0.1	1.2	1.4	0.1	1.4	1.5	0.1	1.6
DREE	---	0.2	0.2	---	1.0	1.0	---	1.0	1.0
CBC	0.3	---	0.3	0.3	---	0.3	0.4	---	0.4
NFB	0.3	---	0.3	0.3	---	0.3	0.3	---	0.4
DVA	0.4	---	0.4	---	---	---	---	---	---
CAL	0.1	---	0.1	0.1	---	0.1	0.1	---	0.1
Other	---	---	---	---	---	---	---	---	---
TOTAL	433.9	356.8	790.7	470.4	415.6	886.1	513.4	433.7	947.1

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 24

NATURAL SCIENCES

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RESEARCH AND DEVELOPMENT
BY DEPARTMENT OR AGENCY, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 25
NATURAL SCIENCES
FEDERAL EXPENDITURES ON RESEARCH AND DEVELOPMENT
BY PERFORMER, BY FUNDING DEPARTMENT OR AGENCY, 1975-1978
(\$ MILLIONS)

PERFORMER	DEPT. OR AGENCY	1975-76		1976-77		1977-78	
		\$	%	\$	%	\$	%
INTRAMURAL	Agr	98.1	(22.6)	98.9	(21.0)	107.1	(20.9)
*****	DOE	94.3	(21.7)	97.1	(20.6)	105.7	(20.6)
	NRC	67.3	(15.5)	80.5	(17.1)	88.6	(17.3)
	AECL	58.1	(13.4)	62.4	(13.3)	61.1	(11.9)
	DND	38.2	(8.8)	43.2	(9.2)	55.4	(10.8)
	EMR	35.8	(8.2)	42.0	(8.9)	42.0	(8.2)
	DOC	18.2	(4.2)	18.5	(3.9)	22.3	(4.3)
	NHW	8.1	(1.9)	9.2	(2.0)	10.1	(2.0)
	Other	15.9	(3.7)	18.7	(4.0)	21.1	(4.1)
	TOTAL	433.9	(100.0)	470.4	(100.0)	513.4	(100.0)
EXTRAMURAL	ITC	91.9	(51.6)	106.3	(48.4)	75.2	(35.7)
*****	NRC	23.1	(13.0)	41.7	(19.0)	49.8	(23.6)
INDUSTRY	AECL	24.2	(13.6)	28.2	(12.8)	30.8	(14.6)
	DND	13.1	(7.3)	14.2	(6.5)	17.0	(8.1)
	DOE	5.2	(2.9)	6.1	(2.8)	8.0	(3.8)
	DSS	5.4	(3.0)	6.0	(2.7)	6.8	(3.2)
	MOT	3.0	(1.7)	7.0	(3.2)	6.3	(3.0)
	EMR	2.3	(1.3)	4.3	(1.9)	9.2	(4.4)
	Other	10.0	(5.6)	6.0	(2.7)	7.4	(3.5)
	TOTAL	178.2	(100.0)	219.7	(100.0)	210.5	(100.0)
UNIVERSITIES	NRC	67.8	(48.6)	81.3	(53.6)	92.5	(54.5)
	MRC	43.5	(31.1)	47.3	(31.2)	52.8	(31.1)
	NHW	5.3	(3.8)	8.1	(5.3)	8.3	(4.9)
	DOE	3.8	(2.8)	4.2	(2.8)	4.3	(2.5)
	AECB	8.9	(6.4)	0.5	(0.3)	0.3	(0.2)
	Agr	1.7	(1.2)	3.1	(2.0)	3.4	(2.0)
	DND	2.8	(2.0)	1.2	(0.8)	1.4	(0.8)
	EMR	1.3	(0.9)	1.2	(0.8)	1.8	(1.1)
	Other	4.5	(3.3)	4.6	(3.0)	4.8	(2.8)
	TOTAL	139.6	(100.0)	151.6	(100.0)	169.6	(100.0)

NON-PROFIT INSTITUTIONS	ITC	0.9	(20.1)	4.6	(52.3)	1.5	(23.7)
	DOE	1.0	(20.5)	1.4	(15.9)	1.4	(23.1)
	NHW	0.9	(19.7)	1.1	(12.8)	1.4	(23.2)
	NRC	0.8	(18.1)	0.7	(8.2)	0.8	(12.3)
	INA	0.5	(10.7)	0.4	(4.4)	0.3	(4.9)
	EMR	0.4	(9.0)	0.2	(2.7)	0.2	(3.8)
	DSS	---	(---)	0.2	(2.6)	0.3	(4.2)
	DND	0.1	(1.5)	0.1	(1.1)	0.2	(2.7)
	Other	--	(--)	--	(---)	0.1	(2.1)
	TOTAL	4.7	(100.0)	8.9	(100.0)	6.2	(100.0)

FOREIGN	IDRC	9.9	(36.1)	11.0	(42.4)	10.9	(43.1)
	CIDA	5.7	(21.0)	4.5	(17.1)	6.4	(25.5)
	NRC	6.9	(25.3)	5.9	(22.7)	3.1	(12.2)
	MRC	2.3	(8.5)	2.2	(8.4)	2.4	(9.6)
	DND	1.4	(5.1)	1.5	(5.8)	2.1	(8.2)
	DOC	0.8	(2.7)	---	(---)	---	(---)
	DOE	0.2	(0.6)	0.2	(0.8)	0.2	(0.9)
	MOT	--	(--)	0.5	(1.9)	--	(--)
	Other	0.1	(0.4)	0.2	(0.8)	0.1	(0.4)
	TOTAL	27.4	(100.0)	26.0	(100.0)	25.2	(100.0)

OTHER CANADIAN	EMR	1.4	(20.9)	2.6	(27.3)	13.6	(61.2)
	DOE	1.1	(16.5)	1.7	(18.0)	1.7	(7.9)
	DOC	0.9	(12.7)	1.0	(10.5)	1.2	(5.4)
	MOT	0.5	(7.1)	0.7	(6.9)	1.5	(7.0)
	Agr	0.4	(5.7)	0.8	(8.1)	1.1	(5.2)
	ITC	0.8	(12.1)	0.7	(7.4)	0.7	(3.3)
	CMHC	0.2	(3.3)	0.9	(9.9)	1.1	(4.8)
	INA	0.4	(6.3)	0.4	(4.4)	0.4	(1.8)
	Other	1.0	(15.2)	0.7	(7.4)	0.8	(3.5)
	TOTAL	6.9	(100.0)	9.5	(100.0)	22.2	(100.0)

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 26
NATURAL SCIENCES

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT
IN CANADIAN UNIVERSITIES AND NON-PROFIT INSTITUTIONS
BY DEPARTMENT OR AGENCY, 1975-1978

(\$ MILLIONS)

DEPARTMENT OR AGENCY	1975-76		1976-77		1977-78	
	GRANTS	CONTRACTS	GRANTS	CONTRACTS	GRANTS	CONTRACTS
NRC	66.7	0.2	80.2	0.4	91.7	0.5
MRC	41.4	---	45.4	---	50.7	---
NHW	6.2	--	9.1	--	9.6	--
DOE	2.5	2.3	3.5	2.1	3.5	2.2
AECB	8.8	0.1	---	0.5	---	0.3
Agr	1.1	0.5	1.9	1.2	1.8	1.6
ITC	1.2	---	4.9	---	1.7	---
DND	2.4	0.5	0.6	0.7	0.6	1.0
EMR	1.4	0.3	1.2	0.3	1.3	0.8
MOT	0.3	0.7	0.3	1.0	0.4	0.9
DSS	---	0.9	---	1.1	---	1.2
INA	0.2	0.8	0.2	0.7	0.2	0.6
DOC	---	0.7	---	0.6	---	0.6
AECL	---	0.6	---	0.4	---	0.6
IDRC	0.4	---	0.5	---	0.6	---
Other	--	--	---	--	---	--
TOTAL	132.6	7.7	147.9	9.1	162.0	10.3

HISTOGRAM 26
NATURAL SCIENCES

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT
IN CANADIAN UNIVERSITIES AND NON-PROFIT INSTITUTIONS
BY DEPARTMENT OR AGENCY, 1975-1978

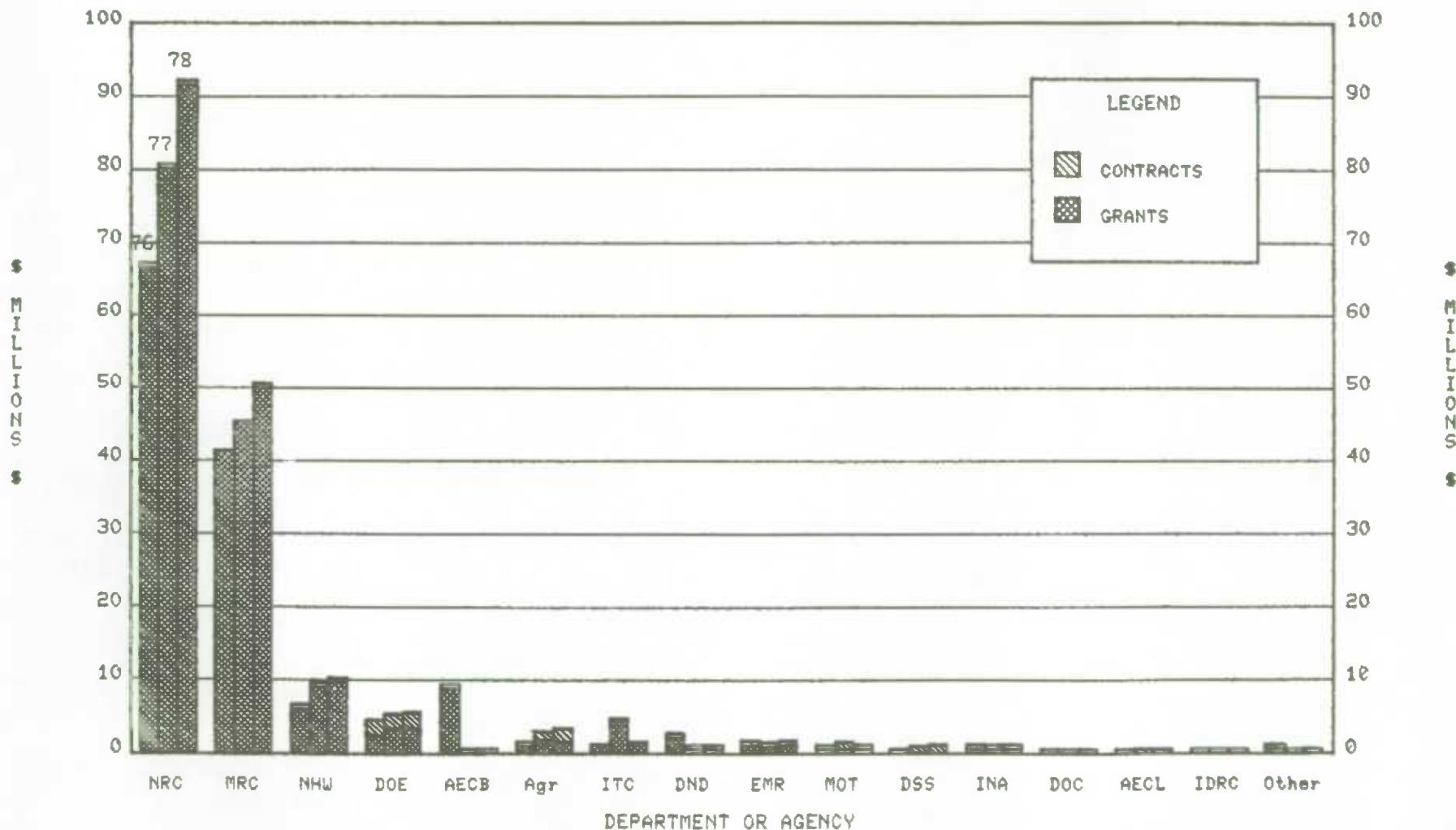


TABLE 27

NATURAL SCIENCES

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT

IN CANADIAN INDUSTRY

BY DEPARTMENT OR AGENCY, 1975-1978

(\$ MILLIONS)

DEPARTMENT OR AGENCY	1975-76		1976-77		1977-78	
	GRANTS	CONTRACTS	GRANTS	CONTRACTS	GRANTS	CONTRACTS
ITC	91.9	---	106.3	---	75.2	---
NRC	14.1	8.2	15.2	25.6	16.6	32.1
AECL	---	24.2	---	28.2	---	30.8
DND	1.7	11.3	---	14.2	---	17.0
DOE	---	5.2	---	6.1	---	8.0
DSS	---	5.4	---	6.0	---	6.8
MOT	---	3.0	---	7.0	---	6.3
EMR	---	2.3	---	4.3	---	9.2
DOC	---	8.5	---	2.8	---	2.8
CMHC	--	0.2	0.7	---	1.8	---
DREE	0.2	---	1.0	---	1.0	---
Agr	--	0.2	0.1	0.5	0.1	0.7
INA	---	0.4	---	0.3	---	0.3
DPW	---	0.2	---	0.4	---	0.4
AECB	---	0.1	---	0.2	---	0.2
Other	0.1	--	0.1	---	0.1	--
TOTAL	108.0	69.4	123.3	95.4	94.8	114.7

HISTOGRAM 27
NATURAL SCIENCES

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT
IN CANADIAN INDUSTRY
BY DEPARTMENT OR AGENCY, 1975-1978

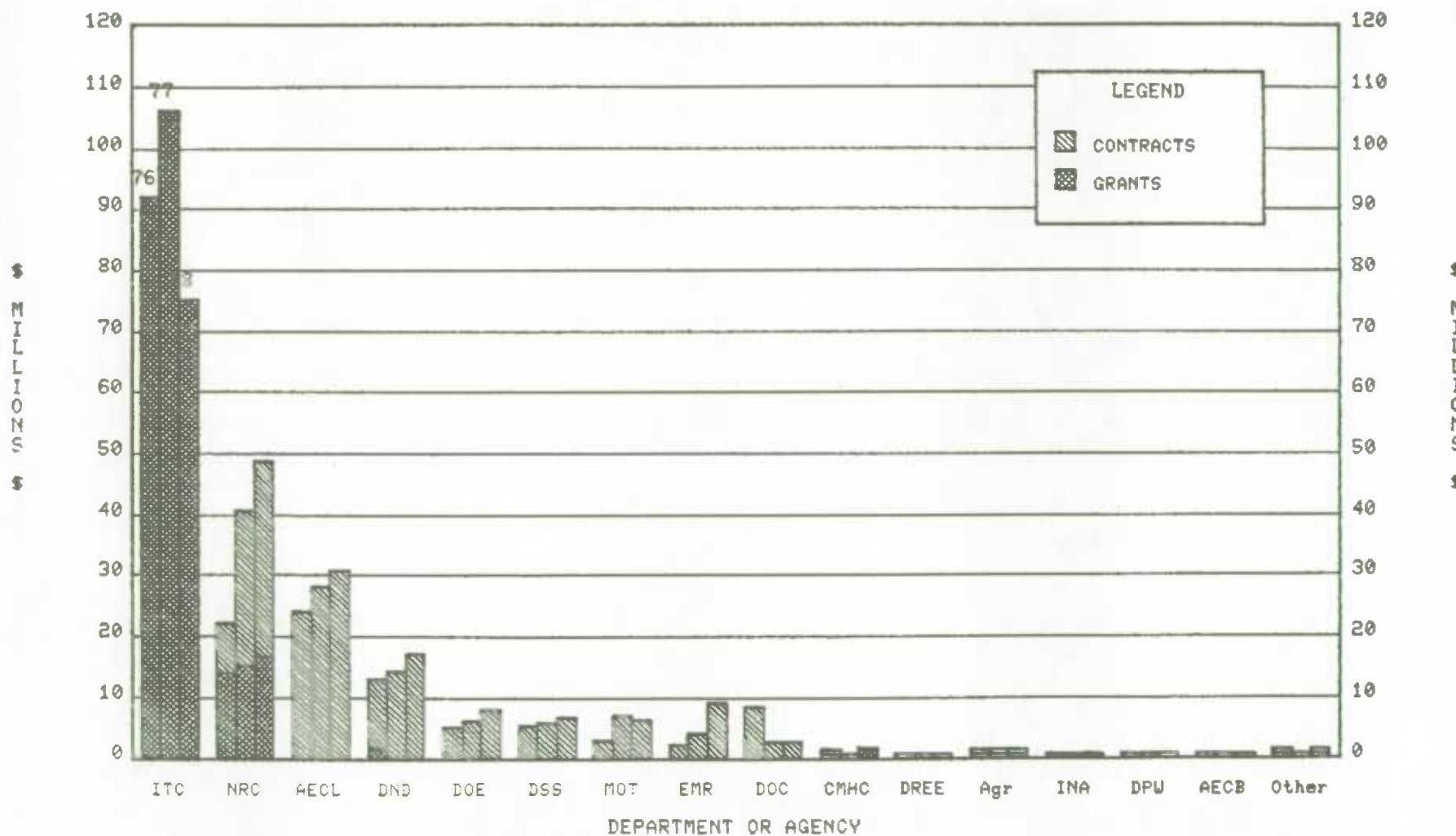


TABLE 28

NATURAL SCIENCES

FEDERAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES
BY PERFORMER, 1975-1978

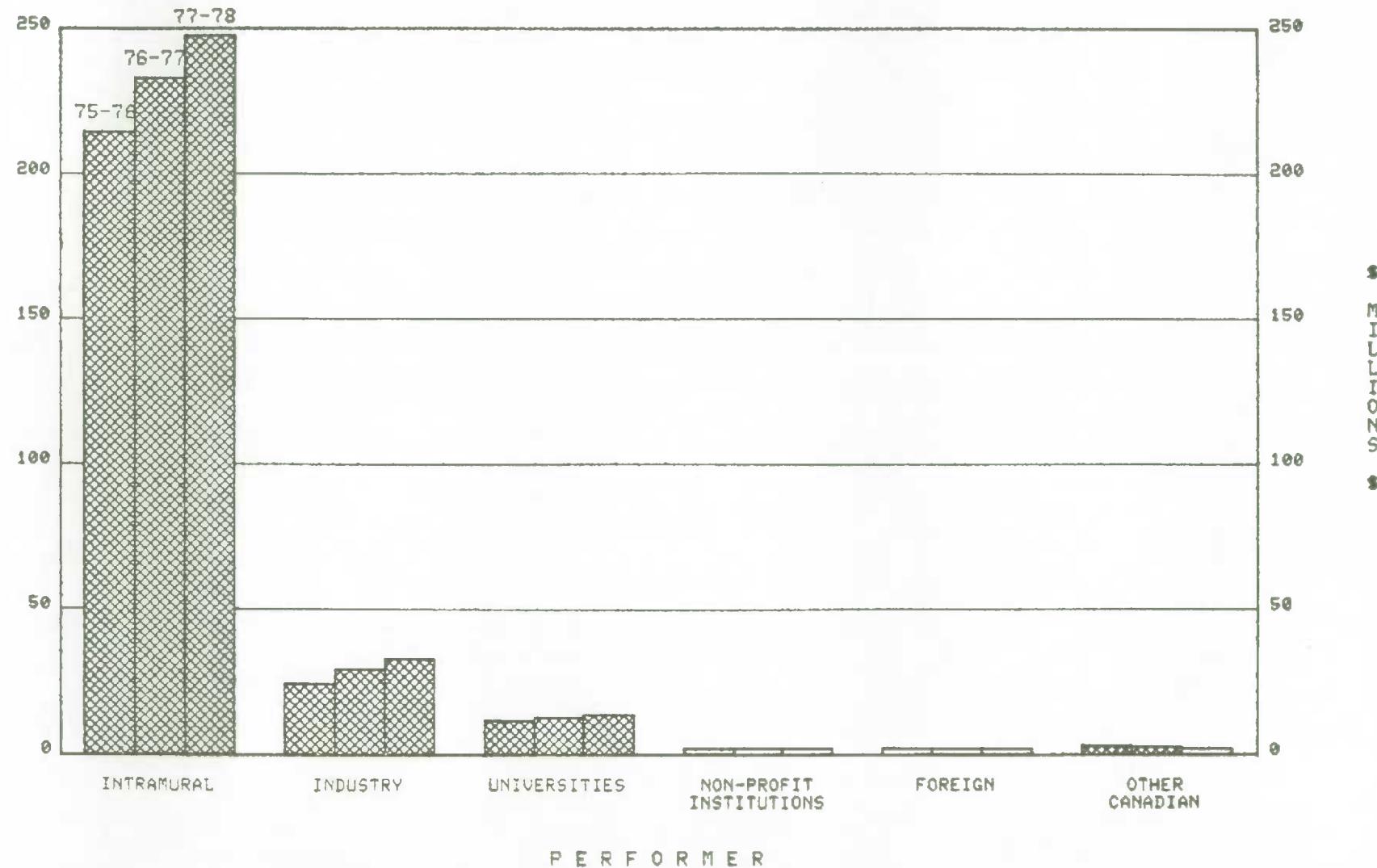
(\$ MILLIONS)

PERFORMER	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
INTRAMURAL	214.6	(83.3)	233.5	(82.9)	248.0	(82.6)
INDUSTRY	24.4	(9.5)	29.4	(10.4)	32.9	(10.9)
UNIVERSITIES	12.0	(4.7)	12.7	(4.5)	13.9	(4.6)
NON-PROFIT INSTITUTIONS	1.3	(0.5)	1.4	(0.5)	1.6	(0.5)
FOREIGN	2.0	(0.8)	2.1	(0.7)	2.1	(0.7)
OTHER CANADIAN	3.4	(1.3)	2.7	(1.0)	2.0	(0.7)
TOTAL	257.6	(100.0)	281.7	(100.0)	300.4	(100.0)

*** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 28
NATURAL SCIENCES

FEDERAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES
BY PERFORMER, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 29

NATURAL SCIENCES

FEDERAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES
BY ACTIVITY, 1975-1978

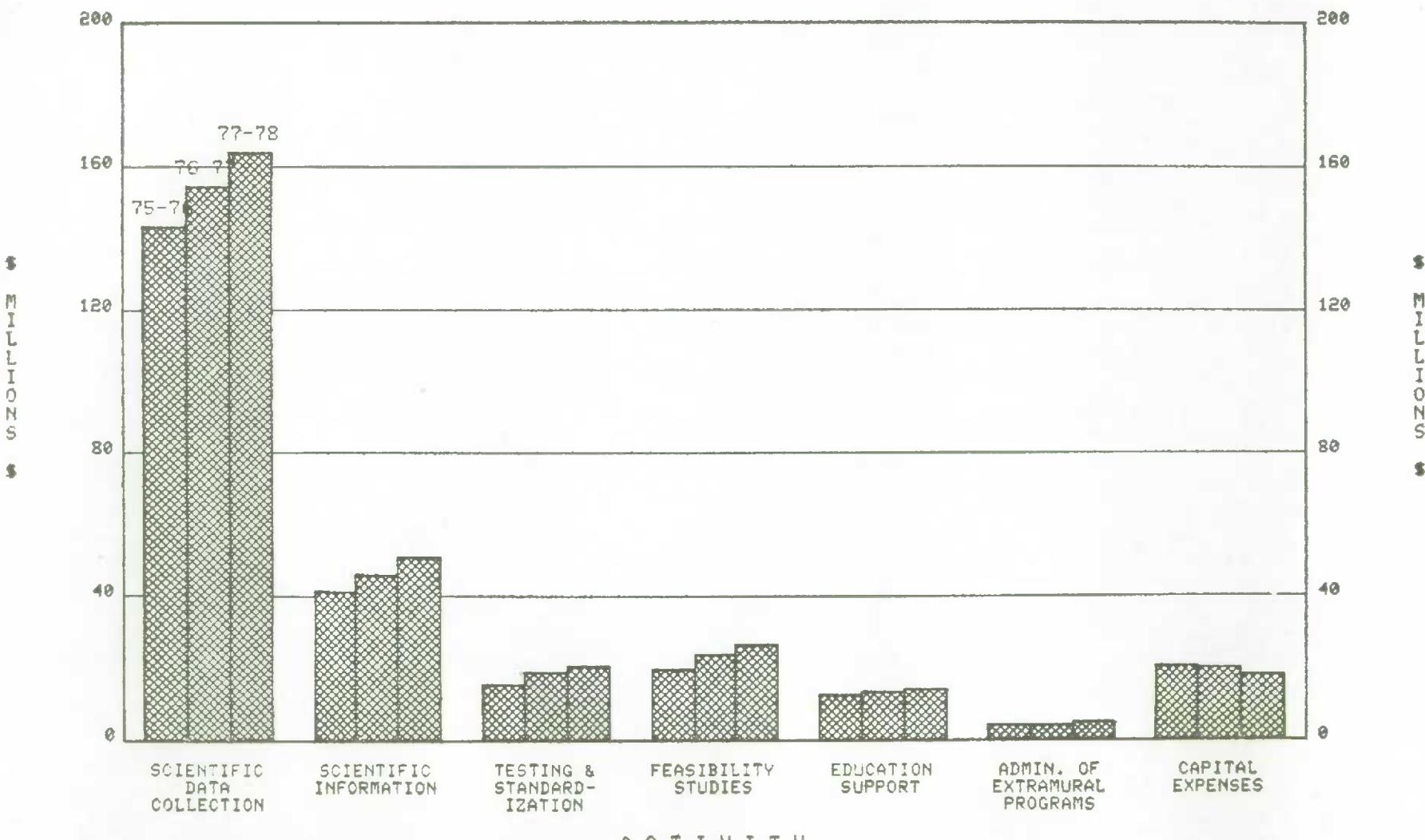
(\$ MILLIONS)

ACTIVITY	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
CURRENT	236.9	(92.0)	261.4	(92.8)	282.0	(93.9)
SCI. DATA COLLECTION	143.4	(55.7)	154.6	(54.9)	164.3	(54.7)
SCI. INFORMATION	41.5	(16.1)	46.3	(16.5)	50.9	(16.9)
TESTING & STANDARDIZATION	15.5	(6.0)	18.9	(6.7)	20.6	(6.9)
FEASIBILITY STUDIES	19.9	(7.7)	23.9	(8.5)	26.7	(8.9)
EDUCATION SUPPORT	12.5	(4.8)	13.3	(4.7)	14.3	(4.8)
ADMIN. OF EXTRAMURAL PROG.	4.1	(1.6)	4.4	(1.6)	5.2	(1.7)
CAPITAL	20.7	(8.0)	20.3	(7.2)	18.4	(6.1)
TOTAL	257.6	(100.0)	281.7	(100.0)	300.4	(100.0)

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 29
NATURAL SCIENCES

FEDERAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES
BY ACTIVITY, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 30

NATURAL SCIENCES

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY, 1975-1978

(\$ MILLIONS)

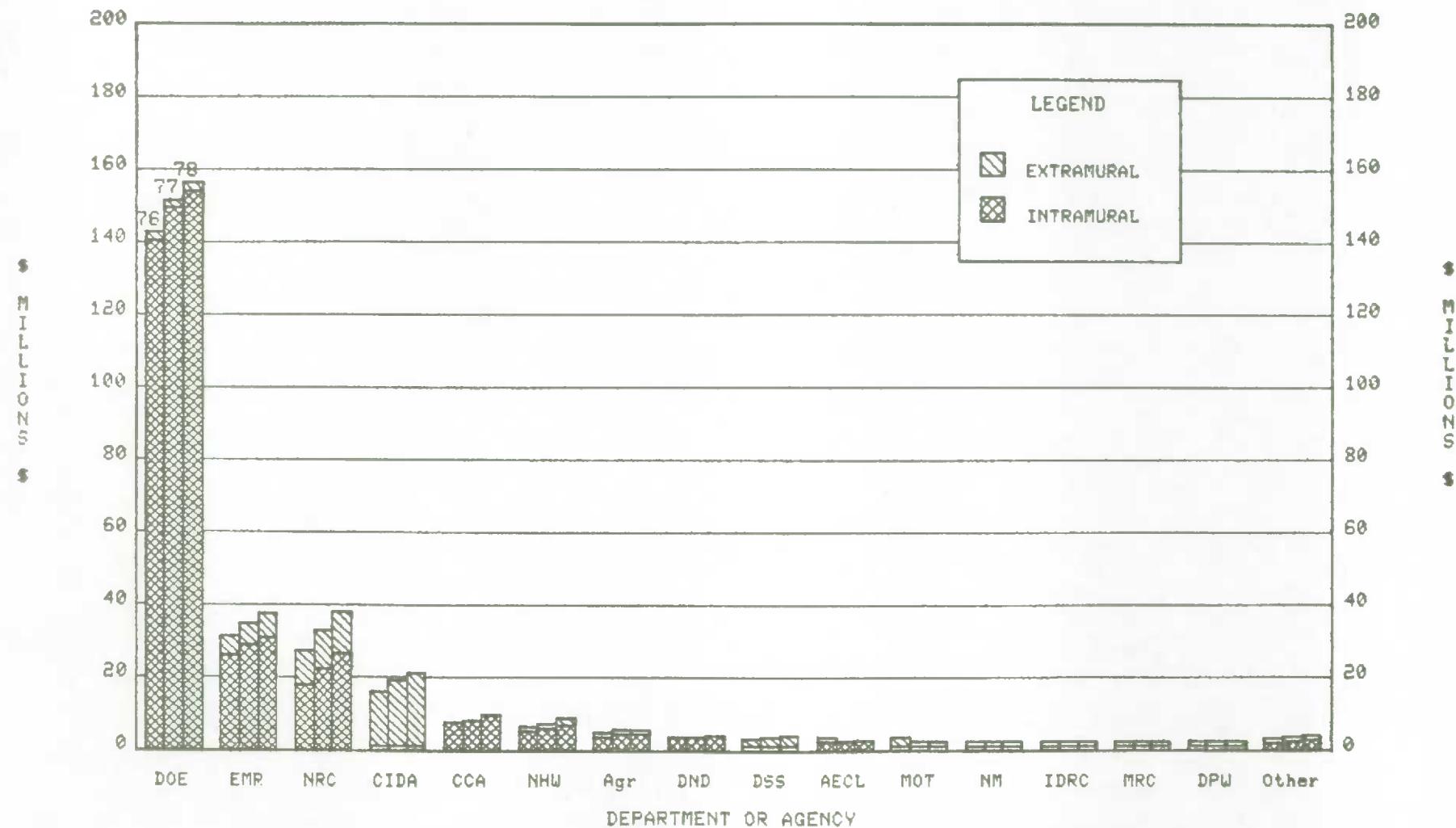
DEPARTMENT OR AGENCY	1975-76			1976-77			1977-78		
	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
DOE	140.6	2.4	143.0	149.7	2.1	151.7	154.4	2.1	156.5
EMR	26.3	5.1	31.4	28.9	6.1	35.0	31.2	6.6	37.7
NRC	18.0	9.6	27.6	22.4	10.5	32.9	26.5	11.5	38.0
CIDA	0.3	15.0	15.3	0.3	18.4	18.6	0.3	20.2	20.5
CCA	7.9	---	7.9	8.4	---	8.4	9.8	---	9.8
NHW	5.3	1.2	6.5	6.3	1.8	8.1	6.9	2.0	8.9
Agr	3.9	---	3.9	4.5	---	4.5	4.6	---	4.6
DND	3.7	---	3.7	3.7	---	3.7	4.1	---	4.1
DSS	0.1	2.1	2.2	0.1	2.8	2.9	0.2	3.2	3.3
AECL	2.6	---	2.6	2.7	---	2.7	2.9	---	2.9
MOT	0.6	2.5	3.1	0.4	1.5	1.9	0.5	1.4	1.9
NM	1.5	0.4	1.9	1.6	0.5	2.1	1.7	0.5	2.2
IDRC	0.4	1.4	1.9	0.5	1.5	2.0	0.6	1.5	2.1
MRC	0.1	1.6	1.7	0.1	1.3	1.4	0.1	1.5	1.6
DPW	1.0	0.4	1.4	1.4	0.3	1.7	1.2	0.3	1.5
NEB	1.1	---	1.1	1.2	---	1.2	1.2	---	1.2
ITC	---	0.8	0.8	---	1.1	1.1	---	1.2	1.2
CMHC	0.6	0.2	0.8	0.6	0.1	0.7	0.7	0.1	0.8
DOC	0.2	0.3	0.5	0.2	0.3	0.5	0.2	0.3	0.5
INA	0.2	---	0.2	0.3	---	0.3	0.6	---	0.6
NFB	0.1	---	0.1	0.2	---	0.2	0.1	---	0.1
Other	---	---	---	---	---	---	---	---	---
TOTAL	214.6	43.0	257.6	233.5	48.3	281.7	248.0	52.4	300.4

*** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 30

NATURAL SCIENCES

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES
BY DEPARTMENT OR AGENCY, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 31
NATURAL SCIENCES

FEDERAL CURRENT EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES
BY ACTIVITY, BY DEPARTMENT OR AGENCY, 1975-1978
(\$ MILLIONS)

ACTIVITY	DEPT. OR AGENCY	1975-76		1976-77		1977-78	
		\$	%	\$	%	\$	%
SCIENTIFIC DATA COLLECTION	DOE	109.4	(76.3)	117.4	(76.0)	124.2	(75.6)
	EMR	24.3	(16.9)	27.1	(17.5)	29.2	(17.8)
	DSS	1.7	(1.2)	2.2	(1.5)	2.6	(1.6)
	NHW	1.7	(1.2)	2.2	(1.5)	2.5	(1.5)
	NM	1.5	(1.1)	1.6	(1.1)	1.8	(1.1)
	MOT	1.9	(1.4)	0.7	(0.5)	0.3	(0.2)
	AECL	0.8	(0.6)	0.9	(0.6)	0.9	(0.6)
	Agr	0.6	(0.4)	0.8	(0.5)	0.8	(0.5)
	Other	1.4	(1.0)	1.5	(1.0)	2.0	(1.2)
TOTAL		143.4	(100.0)	154.6	(100.0)	164.3	(100.0)
SCIENTIFIC INFORMATION	NRC	10.3	(24.8)	12.9	(27.9)	15.2	(29.8)
	DOE	11.8	(28.4)	12.3	(26.6)	12.5	(24.5)
	CCA	6.5	(15.7)	6.6	(14.3)	8.0	(15.7)
	EMR	3.1	(7.5)	3.9	(8.3)	4.1	(8.0)
	Agr	3.0	(7.2)	3.3	(7.2)	3.6	(7.1)
	AECL	1.8	(4.2)	1.9	(4.0)	2.0	(3.9)
	DND	1.6	(4.0)	1.6	(3.4)	1.7	(3.4)
	IDRC	1.0	(2.5)	1.1	(2.4)	1.1	(2.2)
	Other	2.4	(5.8)	2.7	(5.8)	2.7	(5.4)
TOTAL		41.5	(100.0)	46.3	(100.0)	50.9	(100.0)
TESTING & STANDARD- IZATION	NRC	6.1	(39.5)	7.5	(39.8)	8.6	(41.5)
	NHW	3.6	(23.4)	4.5	(23.5)	4.9	(23.7)
	DOE	1.9	(12.4)	2.1	(10.9)	2.1	(10.4)
	CCA	1.2	(7.8)	1.3	(7.1)	1.6	(7.6)
	DPW	0.7	(4.8)	1.0	(5.0)	0.8	(4.0)
	EMR	0.7	(4.5)	0.7	(4.0)	0.9	(4.1)
	MOT	0.3	(1.8)	0.8	(4.3)	0.7	(3.2)
	CMHC	0.4	(2.8)	0.4	(2.3)	0.5	(2.6)
	Other	0.5	(3.0)	0.6	(3.1)	0.6	(2.9)
TOTAL		15.5	(100.0)	18.9	(100.0)	20.6	(100.0)

FEASIBILITY STUDIES	CIDA	14.0	(70.7)	17.4	(72.8)	19.1	(71.5)
	DND	1.8	(9.0)	1.9	(7.9)	2.1	(7.7)
	EMR	1.2	(6.2)	1.4	(5.9)	1.5	(5.7)
	DOE	1.2	(5.8)	1.3	(5.6)	1.4	(5.1)
	MOT	0.5	(2.7)	0.1	(0.4)	0.5	(1.9)
	DSS	0.3	(1.3)	0.4	(1.5)	0.4	(1.5)
	IDRC	0.3	(1.6)	0.3	(1.3)	0.3	(1.2)
	NRC	0.1	(0.3)	0.3	(1.3)	0.6	(2.1)
	Other	0.5	(2.4)	0.8	(3.4)	0.9	(3.3)
TOTAL		19.9	(100.0)	23.9	(100.0)	26.7	(100.0)

EDUCATION SUPPORT	NRC	8.3	(66.6)	9.0	(67.6)	9.6	(67.3)
	DOE	1.1	(8.5)	1.1	(8.0)	1.2	(8.1)
	MRC	1.2	(9.5)	1.0	(7.4)	1.1	(7.7)
	ITC	0.8	(6.5)	1.1	(8.4)	1.2	(8.1)
	CIDA	1.0	(8.0)	1.0	(7.3)	1.1	(7.5)
	IDRC	0.1	(0.8)	0.1	(0.8)	0.1	(0.8)
	Other	---	(---)	0.1	(0.4)	0.1	(0.5)
	TOTAL		12.5	(100.0)	13.3	(100.0)	14.3

ADMIN. OF EXTRAMURAL PROGRAMS	NRC	2.0	(49.4)	2.3	(52.7)	2.8	(53.6)
	EMR	0.6	(14.7)	0.6	(14.5)	0.7	(13.4)
	IDRC	0.4	(10.5)	0.5	(11.3)	0.6	(10.9)
	MOT	0.3	(8.4)	0.3	(5.8)	0.4	(7.0)
	CIDA	0.3	(6.1)	0.3	(6.2)	0.3	(6.5)
	DSS	0.1	(2.4)	0.1	(2.4)	0.2	(2.9)
	NHW	0.1	(2.4)	0.1	(2.3)	0.1	(1.9)
	DPW	0.1	(2.2)	0.1	(1.8)	0.1	(1.5)
	Other	0.2	(3.9)	0.1	(3.0)	0.1	(2.2)
TOTAL		4.1	(100.0)	4.4	(100.0)	5.2	(100.0)

CAPITAL EXPENSES	DOE	17.7	(85.4)	17.5	(86.2)	15.2	(82.6)
	EMR	1.5	(7.1)	1.2	(6.0)	1.4	(7.8)
	NRC	0.3	(1.6)	0.4	(2.2)	0.9	(4.7)
	NHW	0.7	(3.2)	0.3	(1.6)	0.4	(1.9)
	CCA	0.1	(0.7)	0.4	(1.9)	0.2	(1.2)
	Agr	0.1	(0.6)	0.2	(1.1)	---	(---)
	DND	0.1	(0.4)	0.1	(0.3)	0.2	(0.9)
	DPW	0.1	(0.4)	0.1	(0.4)	0.1	(0.3)
	Other	0.1	(0.5)	0.1	(0.4)	0.1	(0.3)
TOTAL		20.7	(100.0)	20.3	(100.0)	18.4	(100.0)

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

3

Human Sciences

TABLE 32

HUMAN SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY PERFORMER, 1975-1978

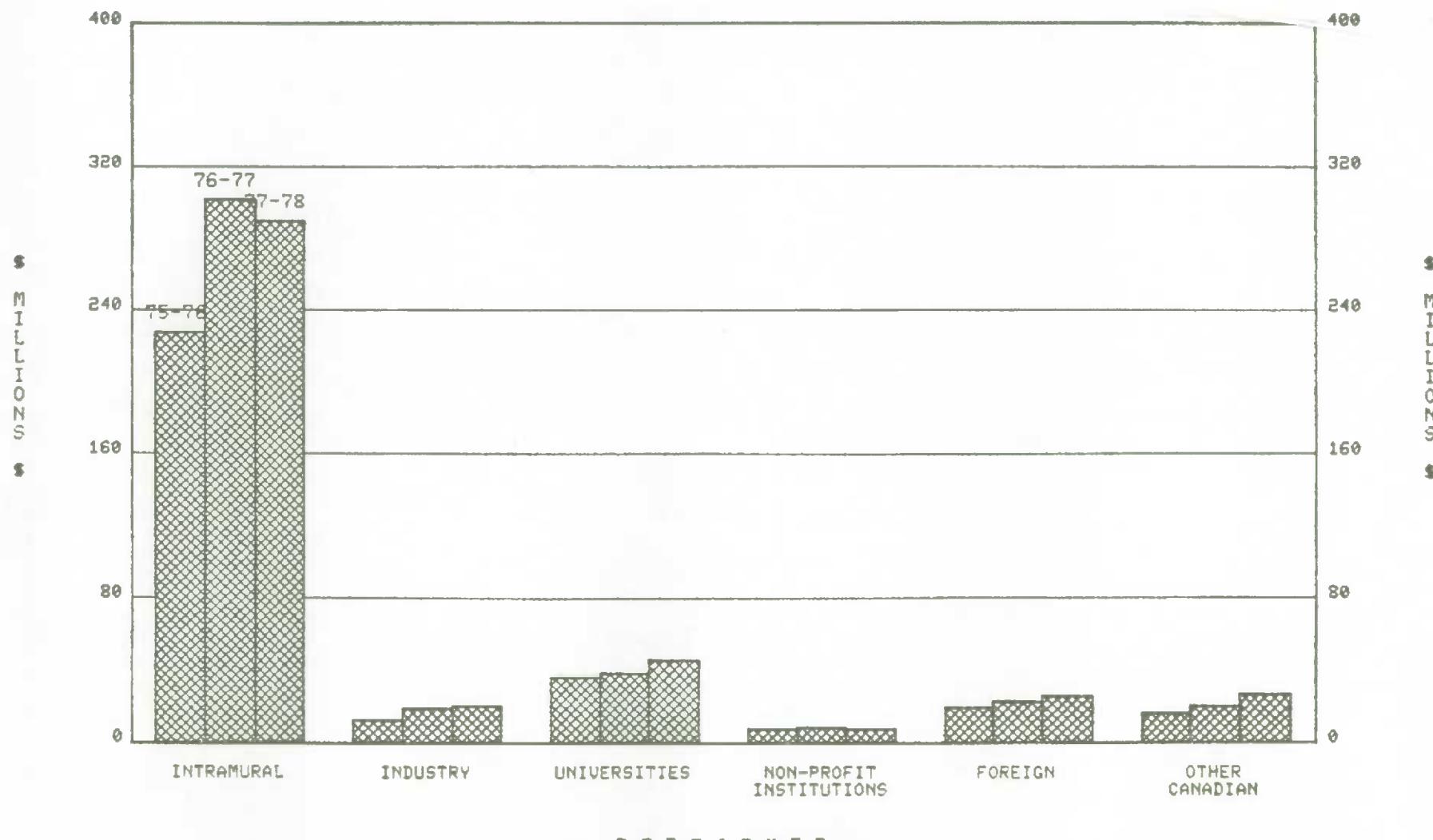
(\$ MILLIONS)

PERFORMER	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
INTRAMURAL	227.3	(71.1)	301.8	(73.7)	290.4	(69.7)
INDUSTRY	12.5	(3.9)	18.6	(4.5)	20.3	(4.9)
UNIVERSITIES	36.3	(11.4)	38.4	(9.4)	45.7	(11.0)
NON-PROFIT INSTITUTIONS	7.5	(2.3)	8.3	(2.0)	7.5	(1.8)
FOREIGN	19.6	(6.1)	22.4	(5.5)	26.4	(6.3)
OTHER CANADIAN	16.4	(5.1)	20.2	(4.9)	26.4	(6.3)
TOTAL	319.5	(100.0)	409.7	(100.0)	416.7	(100.0)

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 32
HUMAN SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY PERFORMER, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 33

HUMAN SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY PERFORMER, BY ACTIVITY, 1975-1978

(\$ MILLIONS)

PERFORMER	1975-76			1976-77			1977-78		
	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
INTRAMURAL	44.9	182.4	227.3	51.3	250.5	301.8	56.6	233.7	290.4
INDUSTRY	5.4	7.1	12.5	7.8	10.7	18.6	9.8	10.5	20.3
UNIVERSITIES	19.6	16.7	36.3	21.1	17.3	38.4	25.3	20.4	45.7
NON-PROFIT INSTITUTIONS	3.6	3.9	7.5	4.7	3.5	8.3	3.9	3.6	7.5
FOREIGN	14.9	4.7	19.6	16.4	6.0	22.4	19.1	7.2	26.4
OTHER CANADIAN	10.9	5.4	16.4	12.1	8.1	20.2	16.3	10.1	26.4
TOTAL	99.3	220.2	319.5	113.5	296.2	409.7	131.0	285.6	416.7

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 33
HUMAN SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY PERFORMER, BY ACTIVITY, 1975-1978

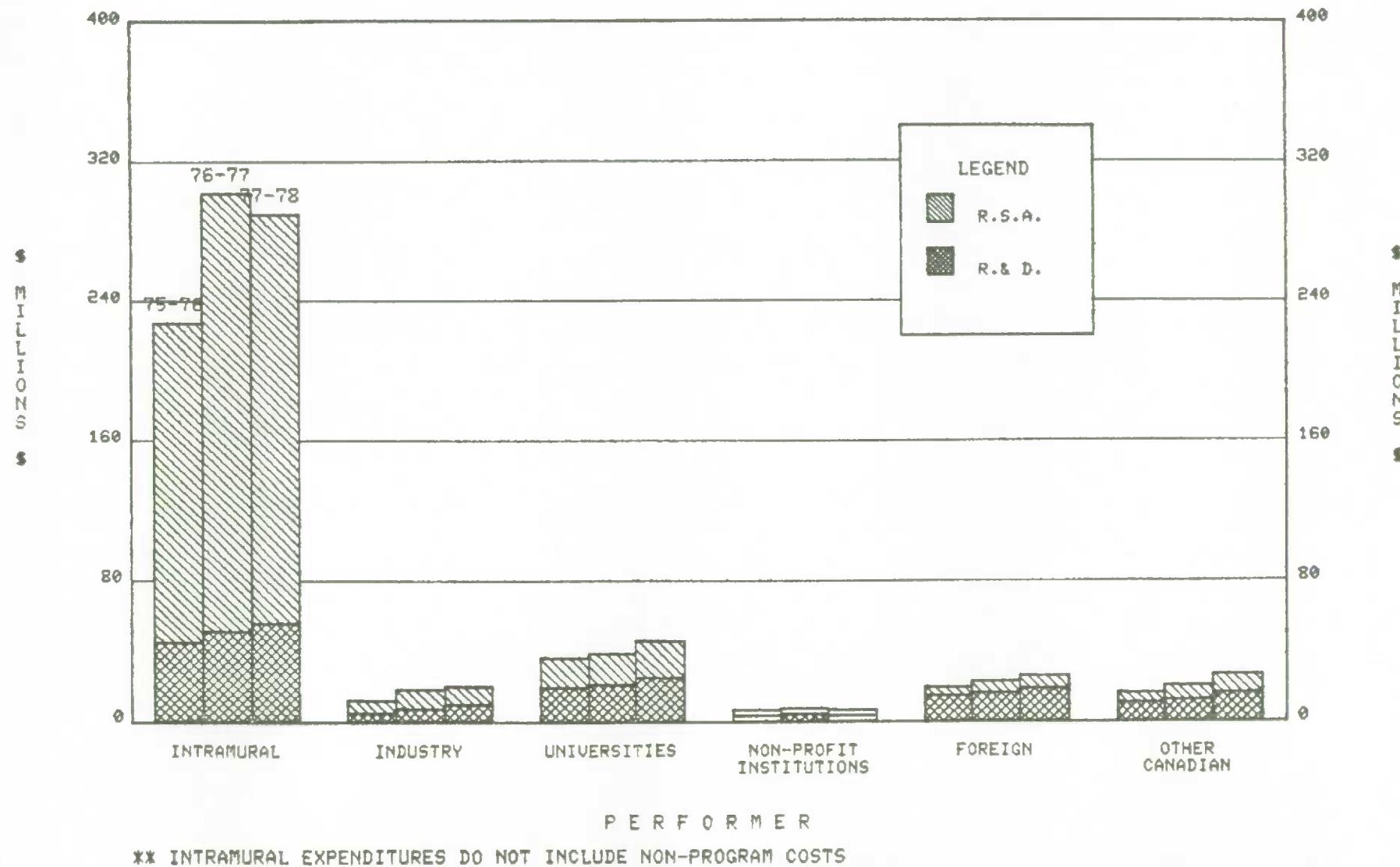


TABLE 34

HUMAN SCIENCES

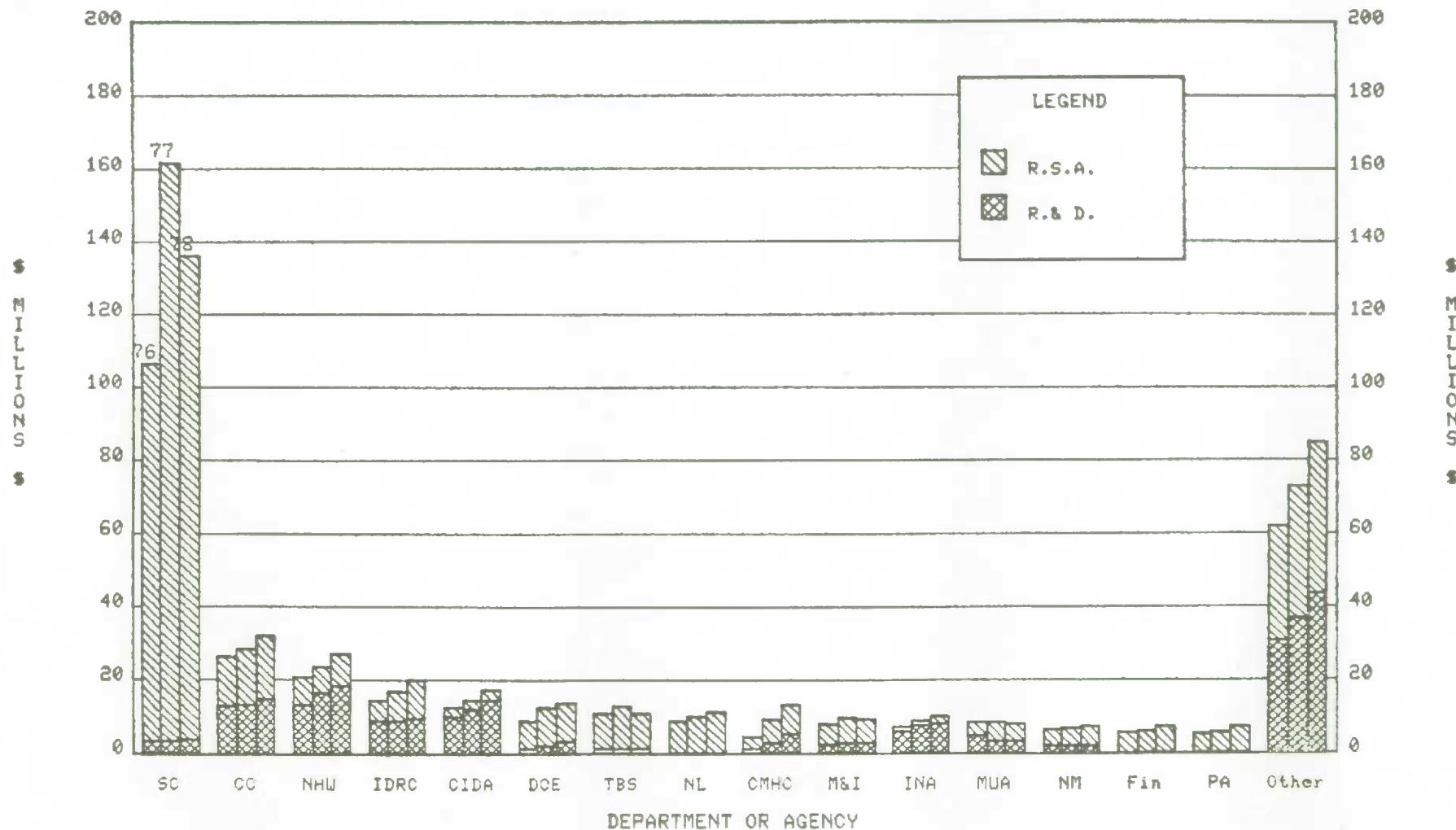
FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY DEPARTMENT OR AGENCY, BY ACTIVITY, 1975-1978
(\$ MILLIONS)

DEPARTMENT OR AGENCY	1975-76			1976-77			1977-78		
	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
SC	3.4	103.2	106.7	3.2	158.4	161.7	3.8	132.3	136.1
CC	12.9	13.8	26.7	13.6	15.0	28.6	15.1	17.0	32.1
NHW	13.5	7.6	21.1	16.6	7.2	23.8	18.6	8.8	27.4
IDRC	9.1	5.4	14.6	8.9	8.0	16.9	9.7	10.7	20.3
CIDA	10.3	2.2	12.6	12.4	2.3	14.7	14.7	2.6	17.2
DOE	1.7	7.9	9.6	2.3	10.4	12.7	3.3	10.4	13.7
TBS	0.1	10.0	10.1	0.1	11.8	11.9	0.1	9.8	9.9
NL	---	8.9	8.9	---	10.3	10.3	---	11.5	11.5
CMHC	1.5	3.5	5.0	3.1	6.3	9.4	5.5	7.9	13.3
M&I	2.5	5.9	8.3	3.0	6.9	9.9	2.9	6.5	9.4
INA	6.0	1.3	7.3	7.6	1.8	9.4	8.1	2.2	10.3
MUA	5.1	3.3	8.5	3.5	5.1	8.6	3.4	4.8	8.1
NM	2.2	4.5	6.6	2.2	4.7	6.9	2.4	5.1	7.5
Fin	---	5.7	5.7	---	6.4	6.4	---	7.2	7.2
PA	---	5.4	5.4	---	5.6	5.6	---	7.5	7.5
MOT	1.9	1.4	3.3	2.9	3.5	6.4	5.2	3.7	8.9
EMR	1.1	4.0	5.0	0.6	4.4	5.1	1.5	5.0	6.4
Jus	3.4	1.3	4.6	3.7	1.3	5.0	5.2	1.6	6.8
SofS	0.9	2.9	3.9	1.0	3.7	4.7	1.3	5.2	6.5
ECC	4.2	---	4.2	5.0	---	5.0	5.3	---	5.3
PSC	3.7	---	3.7	4.1	---	4.1	4.7	---	4.7
MSST	0.1	2.6	2.7	0.3	3.6	3.9	0.4	4.1	4.5
EA	---	4.2	4.2	---	2.9	2.9	---	3.3	3.3
DOC	---	2.7	2.7	---	3.3	3.3	---	3.4	3.4
CCA	2.2	0.1	2.2	2.7	0.6	3.2	3.0	0.5	3.5
CTC	1.8	0.7	2.5	1.9	0.7	2.7	2.1	0.8	2.9
SG	1.1	0.1	1.3	2.8	0.4	3.1	2.8	0.5	3.3
PCO	1.2	1.7	3.0	2.7	---	2.7	2.0	---	2.0
ScC	1.0	1.0	2.0	1.1	1.0	2.2	1.2	1.2	2.4
Lab	0.5	1.7	2.1	0.4	1.5	1.9	0.4	1.8	2.2
Other	7.8	7.2	15.0	7.7	9.1	16.8	8.5	10.2	18.7
TOTAL	99.3	220.2	319.5	113.5	296.2	409.7	131.0	285.6	416.7

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 34
HUMAN SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY DEPARTMENT OR AGENCY, BY ACTIVITY, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 35

HUMAN SCIENCES

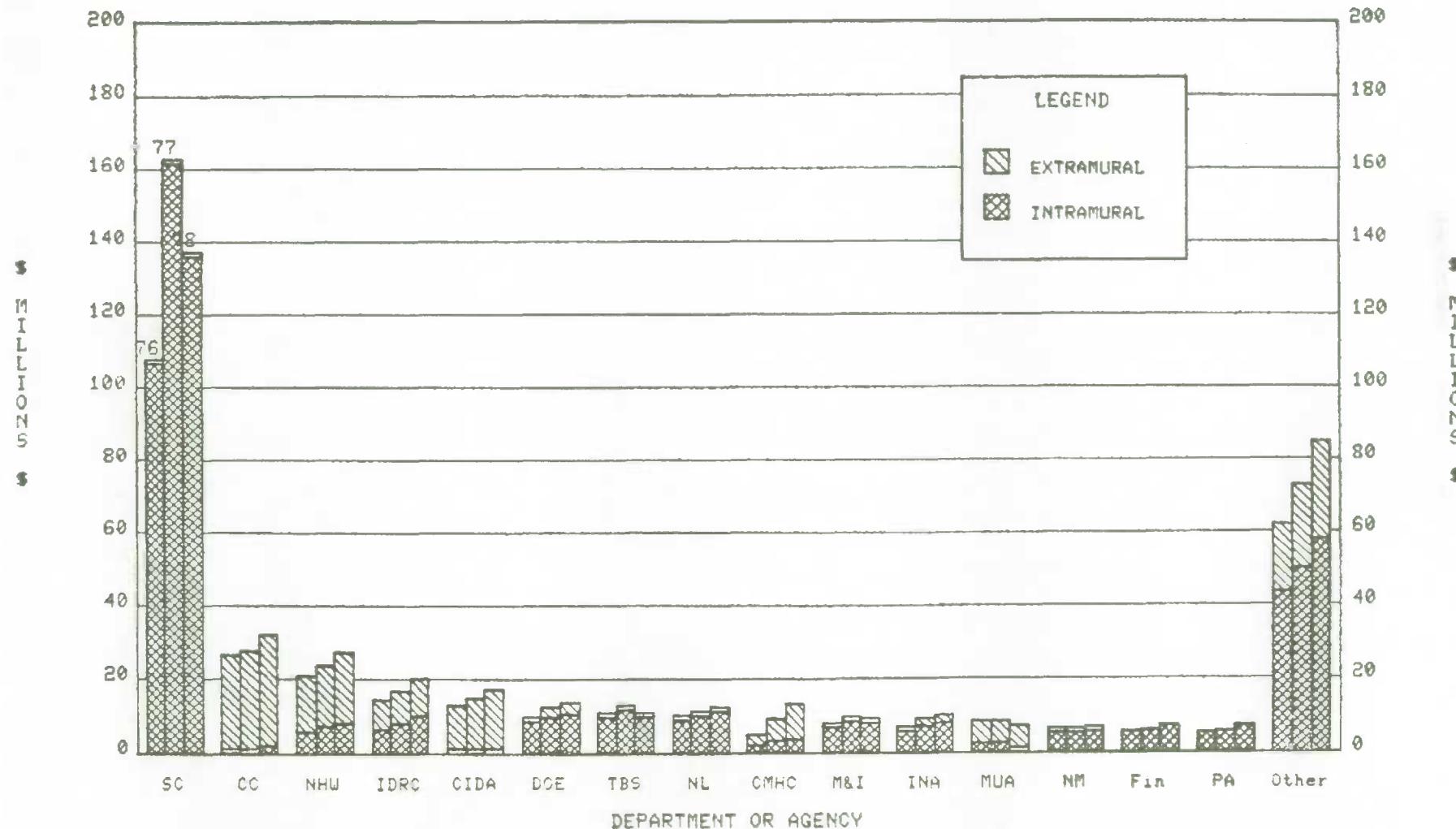
FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY DEPARTMENT OR AGENCY, 1975-1978
(\$ MILLIONS)

DEPARTMENT OR AGENCY	1975-76			1976-77			1977-78		
	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
SC	106.6	- -	106.7	161.6	- -	161.7	136.1	- -	136.1
CC	1.5	25.2	26.7	1.9	26.6	28.6	2.2	29.8	32.1
NHW	5.9	15.2	21.1	7.3	16.5	23.8	8.2	19.2	27.4
IDRC	6.7	7.8	14.6	8.3	8.5	16.9	10.0	10.3	20.3
CIDA	0.9	11.7	12.6	1.0	13.7	14.7	1.2	16.1	17.2
DOE	8.6	1.0	9.6	9.8	3.0	12.7	10.7	3.0	13.7
TBS	10.0	0.1	10.1	11.8	0.1	11.9	9.8	0.1	9.9
NL	8.9	- -	8.9	10.3	- -	10.3	11.5	- -	11.5
CMHC	2.2	2.8	5.0	3.3	6.1	9.4	3.7	9.7	13.3
M&I	7.2	1.1	8.3	8.5	1.4	9.9	8.1	1.3	9.4
INA	5.7	1.7	7.3	7.3	2.1	9.4	8.0	2.3	10.3
MUA	2.7	5.8	8.5	2.8	5.9	8.6	1.9	6.2	8.1
NM	5.3	1.3	6.6	5.5	1.4	6.9	5.9	1.5	7.5
Fin	5.7	---	5.7	6.4	---	6.4	7.2	---	7.2
PA	5.4	---	5.4	5.6	---	5.6	7.5	---	7.5
MOT	0.9	2.4	3.3	2.2	4.2	6.4	2.5	6.4	8.9
EMR	4.1	1.0	5.0	4.5	0.6	5.1	5.1	1.3	6.4
Jus	3.5	1.1	4.6	3.7	1.3	5.0	4.9	1.9	6.8
SofS	1.4	2.4	3.9	2.1	2.6	4.7	3.7	2.9	6.5
ECC	4.0	0.2	4.2	4.8	0.2	5.0	5.1	0.2	5.3
PSC	3.7	---	3.7	4.1	---	4.1	4.7	---	4.7
MSST	2.3	0.4	2.7	3.3	0.6	3.9	3.7	0.8	4.5
EA	2.6	1.6	4.2	1.7	1.2	2.9	1.9	1.4	3.3
DOC	2.0	0.7	2.7	2.5	0.8	3.3	2.6	0.9	3.4
CCA	1.9	0.4	2.2	2.6	0.6	3.2	2.9	0.6	3.5
CTC	1.3	1.2	2.5	1.5	1.2	2.7	1.7	1.2	2.9
SG	0.6	0.7	1.3	1.2	2.0	3.1	1.1	2.2	3.3
PCO	1.5	1.5	3.0	0.4	2.3	2.7	0.4	1.6	2.0
ScC	1.6	0.4	2.0	1.7	0.5	2.2	1.9	0.5	2.4
Lab	2.1	0.1	2.1	1.8	0.1	1.9	2.2	0.1	2.2
Other	10.6	4.4	15.0	12.3	4.5	16.8	13.9	4.7	18.7
TOTAL	227.3	92.2	319.5	301.8	107.8	409.7	290.4	126.3	416.7

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 35
HUMAN SCIENCES

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY DEPARTMENT OR AGENCY, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 36
HUMAN SCIENCES
FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES
BY PERFORMER, BY FUNDING DEPARTMENT OR AGENCY, 1975-1978
(\$ MILLIONS)

PERFORMER	DEPT. OR AGENCY	1975-76		1976-77		1977-78	
		\$	%	\$	%	\$	%
INTRAMURAL							
*****	SC	106.6	(46.9)	161.6	(53.6)	136.1	(46.9)
*****	TBS	10.0	(4.4)	11.8	(3.9)	9.8	(3.4)
*****	NL	8.9	(3.9)	10.3	(3.4)	11.5	(4.0)
*****	DOE	8.6	(3.8)	9.8	(3.2)	10.7	(3.7)
*****	IDRC	6.7	(3.0)	8.3	(2.8)	10.0	(3.4)
*****	M&I	7.2	(3.2)	8.5	(2.8)	8.1	(2.8)
*****	NHW	5.9	(2.6)	7.3	(2.4)	8.2	(2.8)
*****	INA	5.7	(2.5)	7.3	(2.4)	8.0	(2.8)
*****	Fin	5.7	(2.5)	6.4	(2.1)	7.2	(2.5)
*****	PA	5.4	(2.4)	5.6	(1.9)	7.5	(2.6)
*****	NM	5.3	(2.3)	5.5	(1.8)	5.9	(2.0)
*****	ECC	4.0	(1.8)	4.8	(1.6)	5.1	(1.8)
*****	EMR	4.1	(1.8)	4.5	(1.5)	5.1	(1.8)
*****	PSC	3.7	(1.6)	4.1	(1.4)	4.7	(1.6)
*****	Jus	3.5	(1.5)	3.7	(1.2)	4.9	(1.7)
*****	Other	36.0	(15.8)	42.1	(14.0)	47.4	(16.3)
TOTAL		227.3	(100.0)	301.8	(100.0)	290.4	(100.0)
EXTRAMURAL							
*****	CMHC	0.8	(6.6)	4.0	(21.5)	6.1	(29.9)
*****	MOT	1.3	(10.1)	2.2	(11.7)	2.4	(11.6)
INDUSTRY	MJA	2.0	(15.9)	1.5	(7.9)	0.8	(4.0)
*****	DOE	0.7	(5.7)	1.7	(9.1)	1.0	(4.8)
*****	NM	1.0	(8.2)	1.1	(5.9)	1.2	(5.9)
*****	CBC	0.9	(7.5)	1.2	(6.2)	1.2	(6.0)
*****	UIC	0.9	(7.5)	1.1	(5.9)	1.2	(6.1)
*****	CTC	1.1	(8.5)	1.1	(5.8)	1.1	(5.4)
*****	Other	3.8	(30.1)	4.9	(26.2)	5.3	(26.3)
TOTAL		12.5	(100.0)	18.6	(100.0)	20.3	(100.0)

UNIVERSITIES	CC	20.1	(55.3)	20.9	(54.4)	23.4	(51.2)
	NHW	5.8	(15.9)	6.2	(16.2)	7.8	(17.1)
	SofS	2.1	(5.7)	1.8	(4.8)	2.4	(5.3)
	CIDA	2.0	(5.4)	1.8	(4.8)	2.0	(4.4)
	EA	1.6	(4.5)	1.2	(3.1)	1.4	(3.2)
	CMHC	1.0	(2.9)	1.4	(3.7)	1.8	(3.9)
	MUA	1.0	(2.8)	1.3	(3.4)	1.9	(4.1)
	MOT	0.5	(1.5)	0.6	(1.5)	1.2	(2.6)
	Other	2.2	(6.2)	3.1	(8.1)	3.8	(8.3)
	TOTAL	36.3	(100.0)	38.4	(100.0)	45.7	(100.0)

NON-PROFIT INSTITUTIONS	CC	2.2	(29.1)	2.3	(27.8)	2.7	(35.3)
	PCO	1.5	(19.9)	2.3	(27.7)	1.6	(21.3)
	NHW	1.1	(15.4)	1.1	(12.7)	1.3	(17.9)
	MUA	1.6	(21.5)	1.1	(12.8)	0.5	(6.1)
	INA	0.3	(3.6)	0.4	(4.5)	0.4	(5.3)
	DSS	--	(---)	0.3	(3.6)	0.3	(4.5)
	IDRC	0.1	(1.5)	0.3	(3.0)	0.2	(3.0)
	SG	--	(--)	0.2	(2.2)	0.2	(2.7)
	Other	0.7	(8.8)	0.5	(5.7)	0.3	(3.8)
	TOTAL	7.5	(100.0)	8.3	(100.0)	7.5	(100.0)

FOREIGN	CIDA	9.8	(49.8)	11.8	(52.8)	14.1	(53.3)
	IDRC	6.1	(31.3)	6.4	(28.7)	7.8	(29.7)
	CC	3.0	(15.3)	3.4	(15.1)	3.8	(14.4)
	MSST	0.2	(1.1)	0.3	(1.5)	0.3	(1.3)
	NHW	0.3	(1.5)	0.2	(1.0)	0.3	(1.1)
	EMR	0.1	(0.3)	0.1	(0.3)	--	(---)
	DND	--	(--)	--	(--)	--	(--)
	Lab	--	(--)	--	(--)	--	(--)
	Other	0.1	(0.6)	0.1	(0.3)	--	(--)
	TOTAL	19.6	(100.0)	22.4	(100.0)	26.4	(100.0)

OTHER CANADIAN	NHW	7.8	(47.5)	8.8	(43.7)	9.5	(36.1)
	MUA	1.1	(6.9)	2.0	(10.2)	3.1	(11.8)
	IDRC	1.4	(8.3)	1.6	(7.9)	2.0	(7.5)
	MOT	0.6	(3.7)	1.5	(7.5)	2.8	(10.7)
	Jus	1.0	(6.1)	1.2	(5.8)	1.8	(6.7)
	CMHC	0.7	(4.5)	0.7	(3.3)	1.8	(7.0)
	INA	0.7	(4.4)	0.8	(3.9)	0.9	(3.3)
	EMR	0.7	(4.4)	0.3	(1.4)	1.1	(4.1)
	Other	2.4	(14.4)	3.3	(16.2)	3.4	(12.9)
	TOTAL	16.4	(100.0)	20.2	(100.0)	26.4	(100.0)

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 37

HUMAN SCIENCES

FEDERAL EXPENDITURES ON RESEARCH AND DEVELOPMENT
BY PERFORMER, 1975-1978

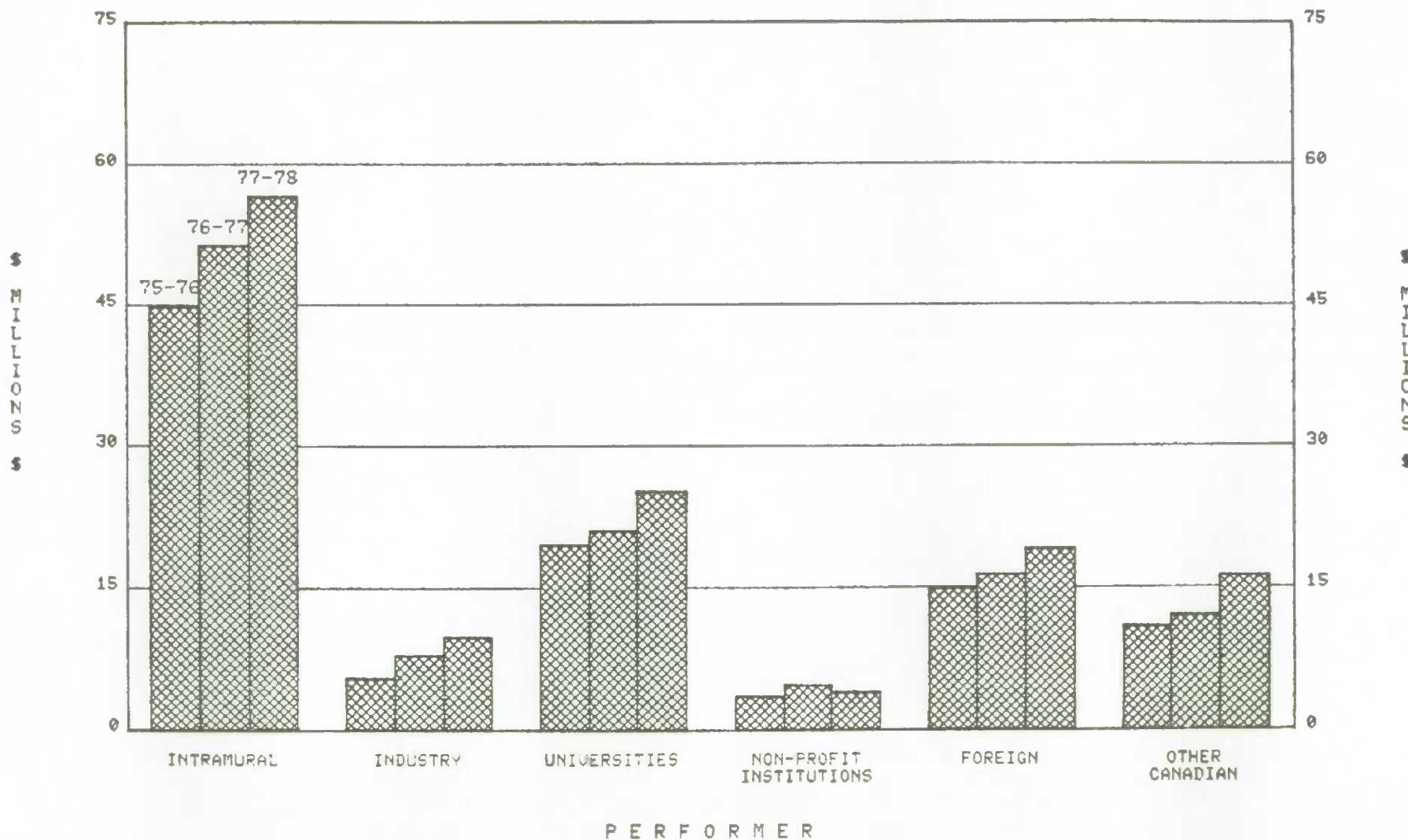
(\$ MILLIONS)

PERFORMER	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
INTRAMURAL	44.9	(45.2)	51.3	(45.2)	56.6	(43.2)
INDUSTRY	5.4	(5.4)	7.8	(6.9)	9.8	(7.5)
UNIVERSITIES	19.6	(19.7)	21.1	(18.6)	25.3	(19.3)
NON-PROFIT INSTITUTIONS	3.6	(3.6)	4.7	(4.2)	3.9	(3.0)
FOREIGN	14.9	(15.0)	16.4	(14.4)	19.1	(14.6)
OTHER CANADIAN	10.9	(11.0)	12.1	(10.7)	16.3	(12.5)
TOTAL	99.3	(100.0)	113.5	(100.0)	131.0	(100.0)

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 37
HUMAN SCIENCES

FEDERAL EXPENDITURES ON RESEARCH AND DEVELOPMENT
BY PERFORMER, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 38

HUMAN SCIENCES

FEDERAL EXPENDITURES ON RESEARCH AND DEVELOPMENT
BY TYPE OF FUNDING, 1975-1978

(\$ MILLIONS)

TYPE OF FUNDING	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
CURRENT						
IN-HOUSE R&D	33.8	(34.0)	38.8	(34.1)	42.2	(32.2)
R&D CONTRACTS	10.9	(11.0)	12.4	(11.0)	15.9	(12.1)
R&D GRANTS	39.1	(39.3)	45.2	(39.8)	53.5	(40.8)
RESEARCH FELLOWSHIPS	5.3	(5.4)	5.3	(4.7)	6.3	(4.8)
ADMIN. OF EXTRAMURAL PROGRAMS	8.0	(8.1)	9.1	(8.0)	10.2	(7.8)
CAPITAL EXPENDITURES	2.2	(2.2)	2.7	(2.4)	3.0	(2.3)
TOTAL	99.3	(100.0)	113.5	(100.0)	131.0	(100.0)

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 38
HUMAN SCIENCES

FEDERAL EXPENDITURES ON RESEARCH AND DEVELOPMENT
BY TYPE OF FUNDING, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 39

HUMAN SCIENCES

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RESEARCH AND DEVELOPMENT

BY DEPARTMENT OR AGENCY, 1975-1978

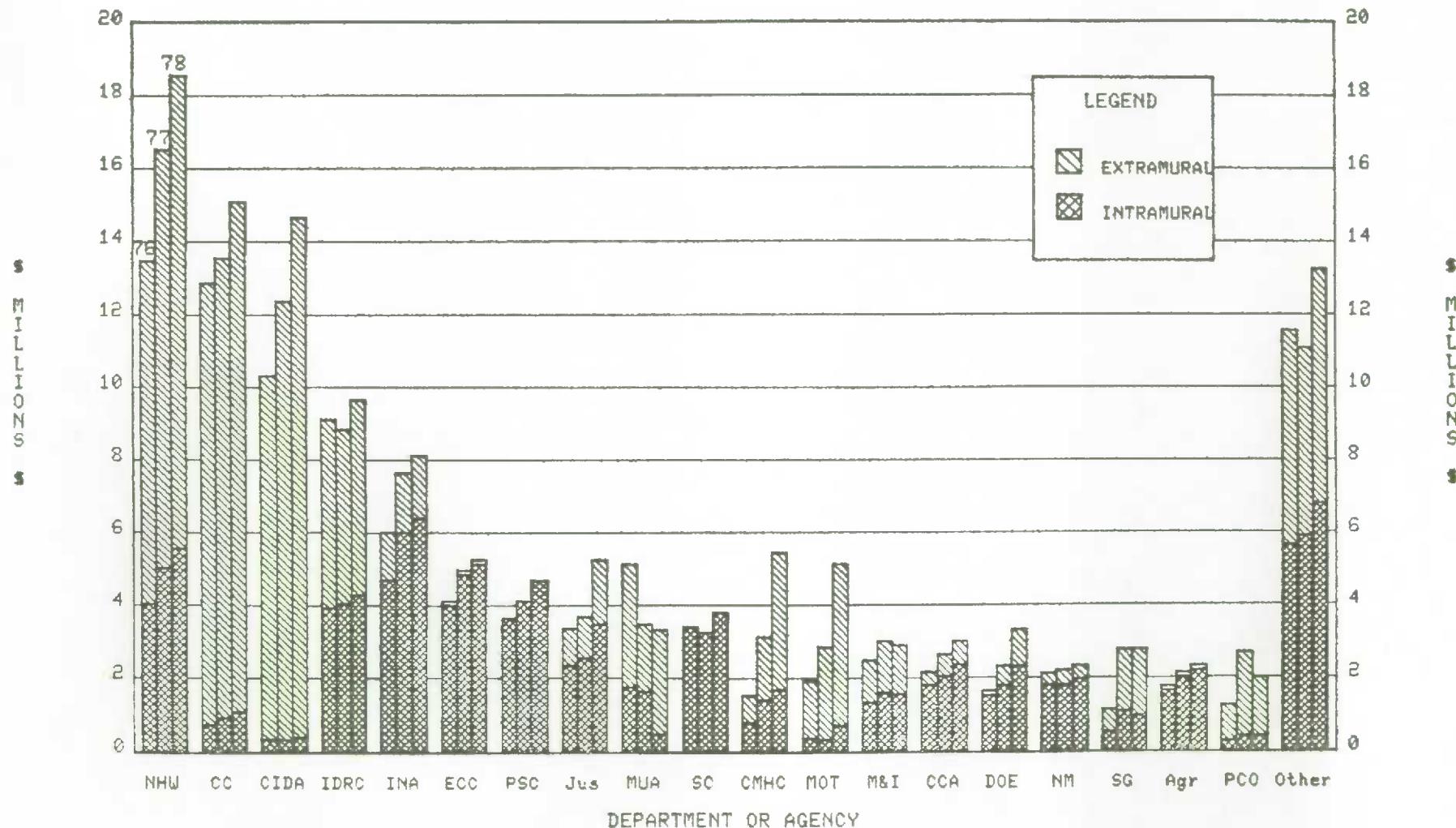
(\$ MILLIONS)

DEPARTMENT OR AGENCY	1975-76			1976-77			1977-78		
	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
NHW	4.1	9.4	13.5	5.0	11.6	16.6	5.6	13.0	18.6
CC	0.7	12.1	12.9	1.0	12.6	13.6	1.1	14.0	15.1
CIDA	0.3	10.0	10.3	0.3	12.0	12.4	0.4	14.3	14.7
IDRC	3.9	5.2	9.1	4.1	4.8	8.9	4.3	5.4	9.7
INA	4.7	1.3	6.0	6.0	1.6	7.6	6.4	1.7	8.1
ECC	4.0	0.2	4.2	4.8	0.2	5.0	5.1	0.2	5.3
PSC	3.7	---	3.7	4.1	---	4.1	4.7	---	4.7
JUS	2.4	1.0	3.4	2.6	1.1	3.7	3.5	1.7	5.2
MJA	1.8	3.4	5.1	1.7	1.9	3.5	0.5	2.8	3.4
SC	3.4	---	3.4	3.2	---	3.2	3.8	---	3.8
CMHC	0.8	0.7	1.5	1.4	1.7	3.1	1.7	3.7	5.5
MOT	0.4	1.5	1.9	0.3	2.5	2.9	0.7	4.4	5.2
M&I	1.3	1.1	2.5	1.6	1.4	3.0	1.6	1.3	2.9
CCA	1.8	0.4	2.2	2.1	0.6	2.7	2.4	0.6	3.0
DOE	1.5	0.2	1.7	1.8	0.5	2.3	2.3	1.0	3.3
NM	1.8	0.3	2.2	1.8	0.4	2.2	2.0	0.4	2.4
SG	0.5	0.6	1.1	1.1	1.7	2.8	1.0	1.8	2.8
Agr	1.7	---	1.7	2.0	0.1	2.1	2.2	0.1	2.3
PCO	0.3	0.9	1.2	0.4	2.3	2.7	0.4	1.6	2.0
CTC	1.0	0.8	1.8	1.1	0.9	1.9	1.3	0.9	2.1
UIC	0.6	0.9	1.5	0.7	1.0	1.7	0.8	1.1	2.0
ScC	0.6	0.4	1.0	0.7	0.5	1.1	0.8	0.5	1.2
SofS	0.1	0.9	0.9	0.2	0.8	1.0	0.4	0.9	1.3
EMR	0.2	0.9	1.1	0.2	0.5	0.6	0.2	1.3	1.5
DND	0.7	0.2	0.8	0.8	0.2	0.9	0.8	0.2	1.0
DREE	0.6	0.2	0.7	0.6	0.3	0.9	0.6	0.3	0.9
CRTC	0.6	0.1	0.7	0.5	0.2	0.8	0.6	0.2	0.8
ITC	0.4	0.9	1.3	0.1	0.4	0.5	0.1	0.3	0.5
NCC	0.6	---	0.6	0.5	---	0.5	0.6	---	0.6
Lab	0.4	0.1	0.5	0.3	0.1	0.4	0.4	0.1	0.4
Other	0.2	0.6	0.8	0.2	0.5	0.7	0.2	0.6	0.8
TOTAL	44.9	54.4	99.3	51.3	62.2	113.5	56.6	74.4	131.0

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 39
HUMAN SCIENCES

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RESEARCH AND DEVELOPMENT
BY DEPARTMENT OR AGENCY, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 40
HUMAN SCIENCES

FEDERAL EXPENDITURES ON RESEARCH AND DEVELOPMENT
BY PERFORMER, BY FUNDING DEPARTMENT OR AGENCY, 1975-1978
(\$ MILLIONS)

PERFORMER	DEPT. OR AGENCY	1975-76		1976-77		1977-78	
		\$	%	\$	%	\$	%
INTRAMURAL	INA	4.7	(10.4)	6.0	(11.7)	6.4	(11.4)
*****	NHW	4.1	(9.1)	5.0	(9.7)	5.6	(9.8)
	ECC	4.0	(9.0)	4.8	(9.4)	5.1	(9.1)
	PSC	3.7	(8.2)	4.1	(8.0)	4.7	(8.3)
	IDRC	3.9	(8.7)	4.1	(7.9)	4.3	(7.6)
	SC	3.4	(7.6)	3.2	(6.3)	3.8	(6.8)
	Jus	2.4	(5.3)	2.6	(5.0)	3.5	(6.2)
	CCA	1.8	(4.0)	2.1	(4.0)	2.4	(4.2)
	Agr	1.7	(3.7)	2.0	(3.9)	2.2	(3.9)
	DOE	1.5	(3.4)	1.8	(3.6)	2.3	(4.1)
	NM	1.8	(4.0)	1.8	(3.6)	2.0	(3.5)
	M&I	1.3	(3.0)	1.6	(3.2)	1.6	(2.8)
	CMHC	0.8	(1.8)	1.4	(2.8)	1.7	(3.0)
	MUA	1.8	(3.9)	1.7	(3.2)	0.5	(0.9)
	CTC	1.0	(2.1)	1.1	(2.1)	1.3	(2.2)
	Other	7.0	(15.6)	8.0	(15.5)	9.2	(16.2)
	TOTAL	44.9	(100.0)	51.3	(100.0)	56.6	(100.0)
EXTRAMURAL	CMHC	0.2	(3.2)	1.7	(21.8)	3.3	(34.1)
*****	UIC	0.9	(16.3)	1.0	(12.4)	1.1	(11.7)
INDUSTRY	M&I	0.8	(15.6)	1.0	(13.3)	1.0	(10.1)
	CTC	0.7	(13.8)	0.8	(10.1)	0.8	(8.1)
	MOT	0.6	(10.7)	0.7	(9.4)	0.8	(8.6)
	MUA	0.9	(16.2)	0.4	(4.5)	0.3	(3.2)
	SG	0.1	(2.7)	0.4	(5.5)	0.5	(4.8)
	INA	0.2	(2.8)	0.2	(2.8)	0.2	(2.3)
	Other	1.0	(18.8)	1.6	(20.2)	1.7	(17.1)
	TOTAL	5.4	(100.0)	7.8	(100.0)	9.8	(100.0)
UNIVERSITIES	CC	12.1	(62.0)	12.6	(59.8)	14.0	(55.3)
	NHW	3.5	(18.0)	4.3	(20.5)	5.4	(21.3)
	Other	3.9	(20.0)	4.2	(19.7)	5.9	(23.4)
	TOTAL	19.6	(100.0)	21.1	(100.0)	25.3	(100.0)

NON-PROFIT INSTITUTIONS	PCO	0.9	(26.4)	2.3	(48.4)	1.6	(41.2)
	MUA	1.4	(39.1)	0.6	(11.8)	0.4	(11.1)
	NHW	0.3	(7.6)	0.7	(14.8)	0.8	(21.4)
	INA	0.3	(7.6)	0.4	(7.8)	0.4	(10.2)
	IDRC	0.1	(3.2)	0.3	(5.3)	0.2	(5.8)
	SG	- -	(- -)	0.2	(3.8)	0.2	(4.6)
	SofS	0.2	(4.3)	0.2	(3.6)	---	(---)
	TBS	0.1	(2.5)	0.1	(1.9)	0.1	(2.5)
	Other	0.3	(8.8)	0.1	(2.6)	0.1	(3.1)
	TOTAL	3.6	(100.0)	4.7	(100.0)	3.9	(100.0)

FOREIGN	CIDA	9.8	(65.3)	11.8	(72.3)	14.1	(73.4)
	IDRC	4.8	(32.0)	4.2	(25.7)	4.7	(24.6)
	NHW	0.3	(1.9)	0.2	(1.4)	0.3	(1.5)
	Other	0.1	(0.7)	0.1	(0.7)	0.1	(0.4)
	TOTAL	14.9	(100.0)	16.4	(100.0)	19.1	(100.0)

OTHER CANADIAN	NHW	5.2	(47.6)	6.2	(51.2)	6.4	(39.0)
	MOT	0.5	(4.2)	1.3	(10.4)	2.4	(14.8)
	Jus	0.9	(7.8)	1.0	(8.4)	1.6	(9.6)
	MUA	0.7	(6.5)	0.4	(3.6)	1.7	(10.4)
	INA	0.7	(6.4)	0.7	(6.2)	0.8	(4.8)
	EMR	0.7	(6.6)	0.3	(2.3)	1.1	(6.6)
	IDRC	0.2	(2.2)	0.4	(2.9)	0.4	(2.6)
	CCA	0.3	(2.4)	0.4	(3.1)	0.4	(2.2)
	Other	1.8	(16.3)	1.4	(11.9)	1.6	(10.0)
	TOTAL	10.9	(100.0)	12.1	(100.0)	16.3	(100.0)

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 41

HUMAN SCIENCES

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT
 IN CANADIAN UNIVERSITIES AND NON-PROFIT INSTITUTIONS
 BY DEPARTMENT OR AGENCY, 1975-1978

(\$ MILLIONS)

DEPARTMENT OR AGENCY	1975-76		1976-77		1977-78	
	GRANTS	CONTRACTS	GRANTS	CONTRACTS	GRANTS	CONTRACTS
CC	8.2	---	8.7	---	9.6	---
NHW	3.5	0.1	4.6	0.1	5.7	0.1
PCO	0.9	0.1	2.0	0.3	1.0	0.6
MUA	1.4	0.4	0.8	0.3	0.6	0.3
SofS	0.7	0.1	0.7	---	0.9	---
SG	0.1	0.2	0.2	0.7	0.2	0.7
MOT	0.3	0.2	0.3	0.1	0.5	0.6
INA	0.1	0.4	0.1	0.5	0.1	0.6
DOE	0.1	---	0.1	0.1	0.6	0.1
ITC	0.2	---	0.3	---	0.2	---
IDRC	0.2	---	0.3	---	0.2	---
CMHC	0.3	0.1	---	---	0.1	0.1
EMR	0.2	---	0.2	---	0.2	---
M&I	---	0.1	0.1	0.1	---	0.1
DND	---	0.1	---	0.1	---	0.1
TBS	0.1	---	0.1	---	0.1	---
NM	---	0.1	---	0.1	---	0.1
Jus	---	0.1	---	0.1	---	0.1
ScC	---	0.1	---	0.1	---	0.1
CRTC	0.1	---	0.1	---	0.1	---
Other	0.1	0.3	---	0.2	---	0.2
TOTAL	16.3	2.2	18.4	2.8	20.2	3.8

HISTOGRAM 41
HUMAN SCIENCES

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT
IN CANADIAN UNIVERSITIES AND NON-PROFIT INSTITUTIONS
BY DEPARTMENT OR AGENCY, 1975-1978

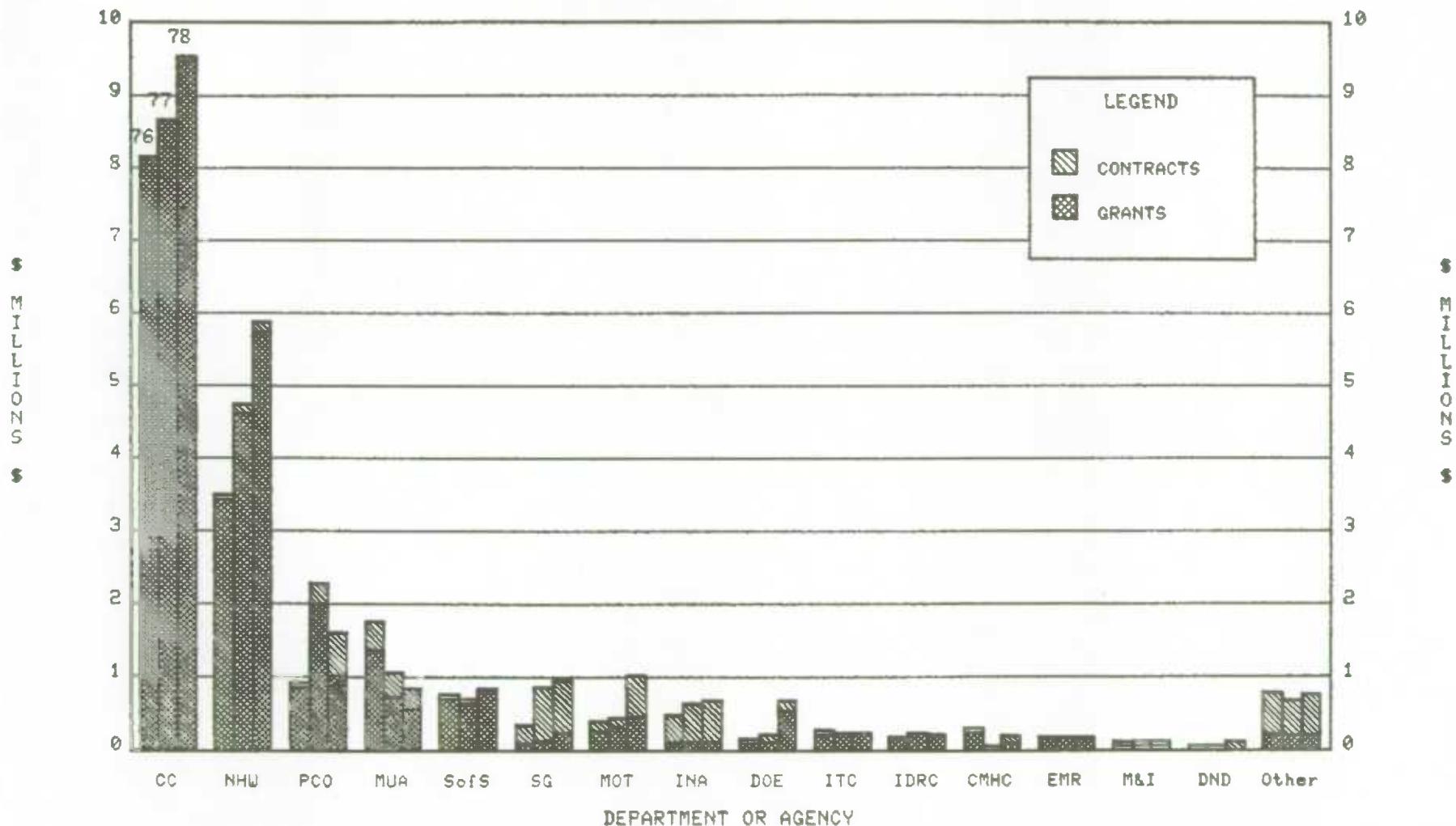


TABLE 42

HUMAN SCIENCES

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT
IN CANADIAN INDUSTRY
BY DEPARTMENT OR AGENCY, 1975-1978

(\$ MILLIONS)

DEPARTMENT OR AGENCY	1975-76		1976-77		1977-78	
	GRANTS	CONTRACTS	GRANTS	CONTRACTS	GRANTS	CONTRACTS
CMHC	--	0.1	1.6	0.1	3.0	0.3
UIC	---	0.9	---	1.0	---	1.1
M&I	---	0.8	---	1.0	---	1.0
CTC	---	0.7	---	0.8	---	0.8
MOT	---	0.6	---	0.7	---	0.8
MUA	---	0.9	---	0.4	---	0.3
SG	---	0.1	---	0.4	---	0.5
INA	---	0.2	---	0.2	---	0.2
CCA	---	0.1	---	0.2	---	0.3
SCC	---	0.2	---	0.2	---	0.2
DOE	---	--	---	0.3	---	0.2
DREE	---	0.1	---	0.2	---	0.2
MSST	---	0.1	---	0.1	---	0.3
ITC	---	0.2	---	0.1	---	0.1
NHW	0.1	--	0.1	--	0.1	--
DSS	---	0.1	---	0.1	---	0.1
CRTC	---	--	---	0.1	---	0.1
Jus	---	0.1	---	--	---	0.1
DND	---	--	---	--	---	0.1
NM	---	--	---	--	---	--
Other	---	--	---	--	---	--
TOTAL	0.1	5.3	1.7	6.1	3.1	6.6

HISTOGRAM 42
HUMAN SCIENCES

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT
IN CANADIAN INDUSTRY
BY DEPARTMENT OR AGENCY, 1975-1978

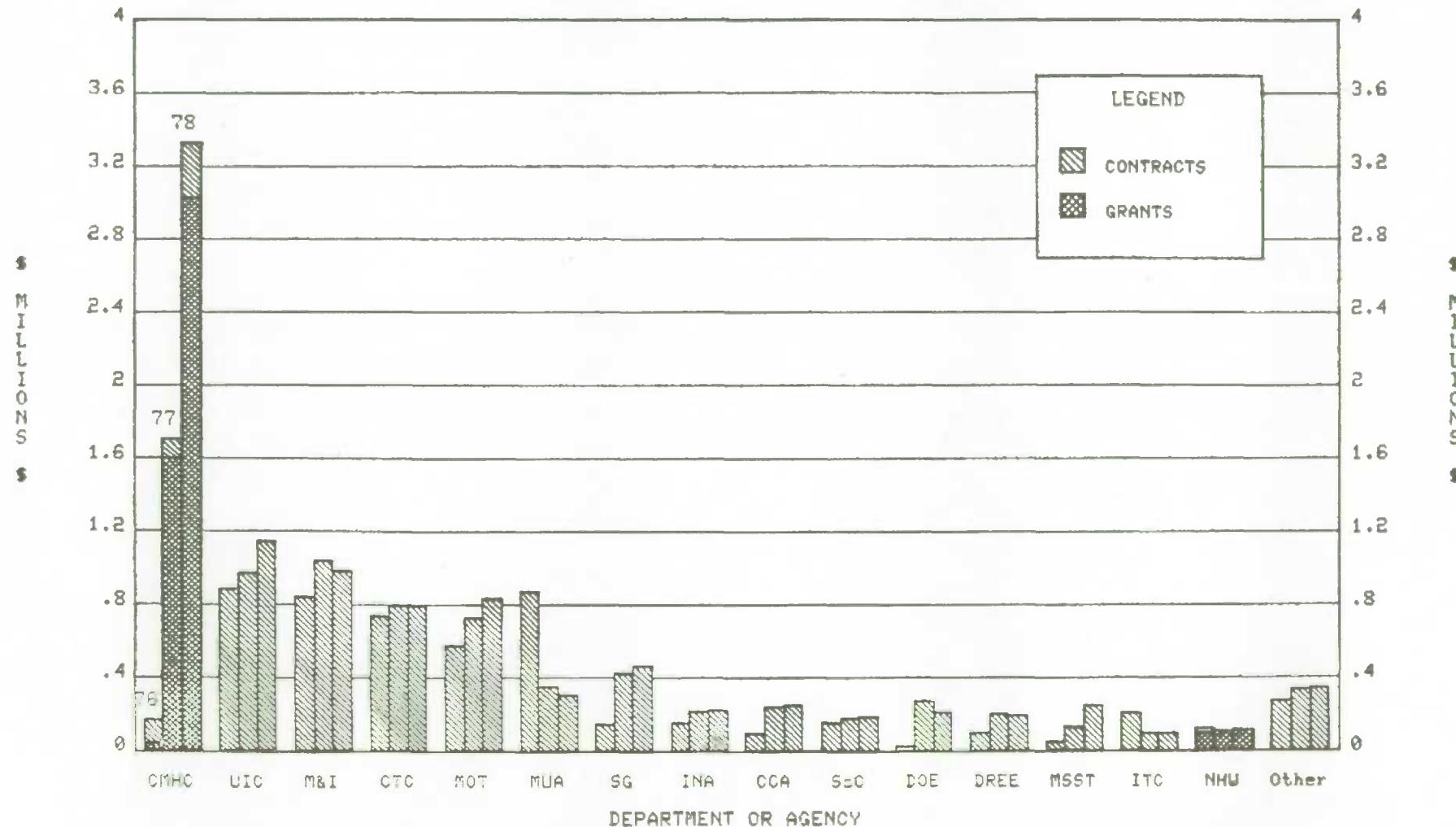


TABLE 43

HUMAN SCIENCES

FEDERAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES
BY PERFORMER, 1975-1978

(\$ MILLIONS)

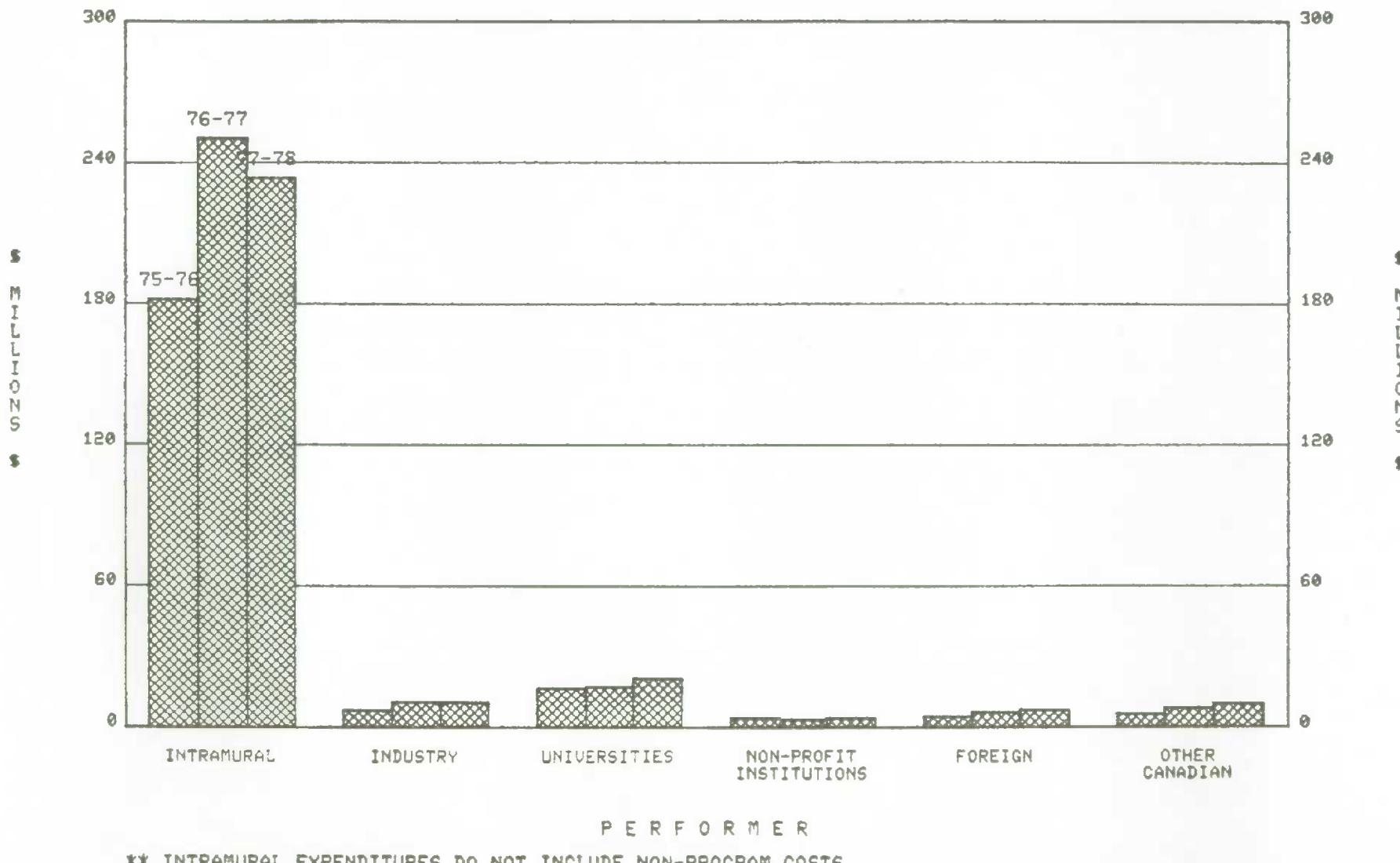
PERFORMER	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
INTRAMURAL	182.4	(82.8)	250.5	(84.6)	233.7	(81.8)
INDUSTRY	7.1	(3.2)	10.7	(3.6)	10.5	(3.7)
UNIVERSITIES	16.7	(7.6)	17.3	(5.8)	20.4	(7.1)
NON-PROFIT INSTITUTIONS	3.9	(1.8)	3.5	(1.2)	3.6	(1.3)
FOREIGN	4.7	(2.1)	6.0	(2.0)	7.2	(2.5)
OTHER CANADIAN	5.4	(2.5)	8.1	(2.7)	10.1	(3.5)
TOTAL	220.2	(100.0)	296.2	(100.0)	285.6	(100.0)

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 43

HUMAN SCIENCES

FEDERAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES
BY PERFORMER, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 44

HUMAN SCIENCES

FEDERAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES
BY ACTIVITY, 1975-1978

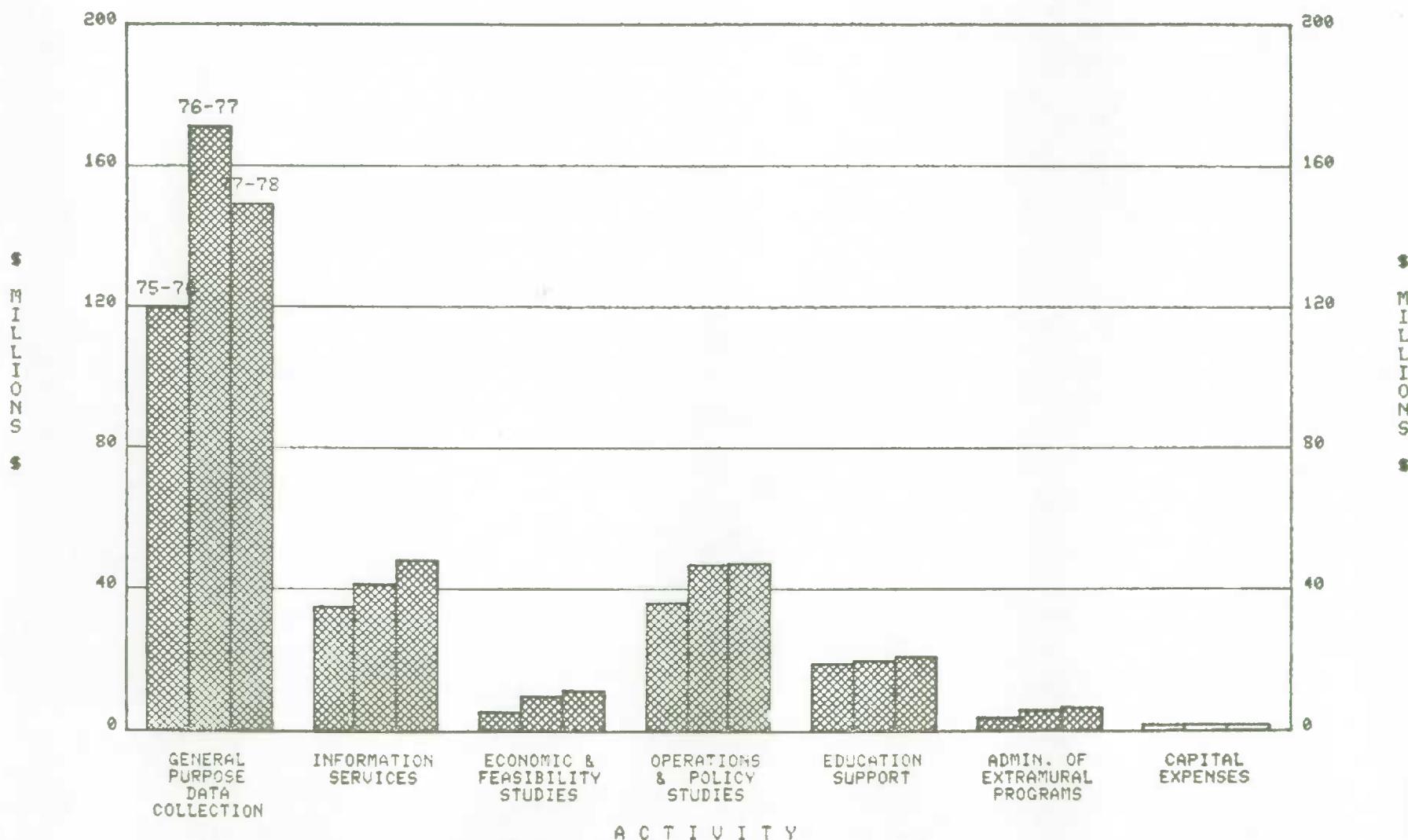
(\$ MILLIONS)

ACTIVITY	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
CURRENT	219.0	(99.4)	294.7	(99.5)	284.2	(99.5)
DATA COLLECTION	119.8	(54.4)	171.2	(57.8)	149.6	(52.4)
INFORMATION SERVICES	34.8	(15.8)	41.5	(14.0)	48.1	(16.8)
ECONOMIC & FEASIBILITY STUDIES	5.5	(2.5)	9.6	(3.2)	11.3	(4.0)
OPERATIONS & POLICY STUDIES	36.1	(16.4)	47.0	(15.9)	47.5	(16.6)
EDUCATION SUPPORT	19.0	(8.6)	19.8	(6.7)	21.1	(7.4)
ADMIN. OF EXTRAMURAL PROGRAMS	3.8	(1.7)	5.6	(1.9)	6.6	(2.3)
CAPITAL	1.2	(0.6)	1.5	(0.5)	1.4	(0.5)
TOTAL	220.2	(100.0)	296.2	(100.0)	285.6	(100.0)

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 44
HUMAN SCIENCES

FEDERAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES
BY ACTIVITY, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 45

HUMAN SCIENCES

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY, 1975-1978

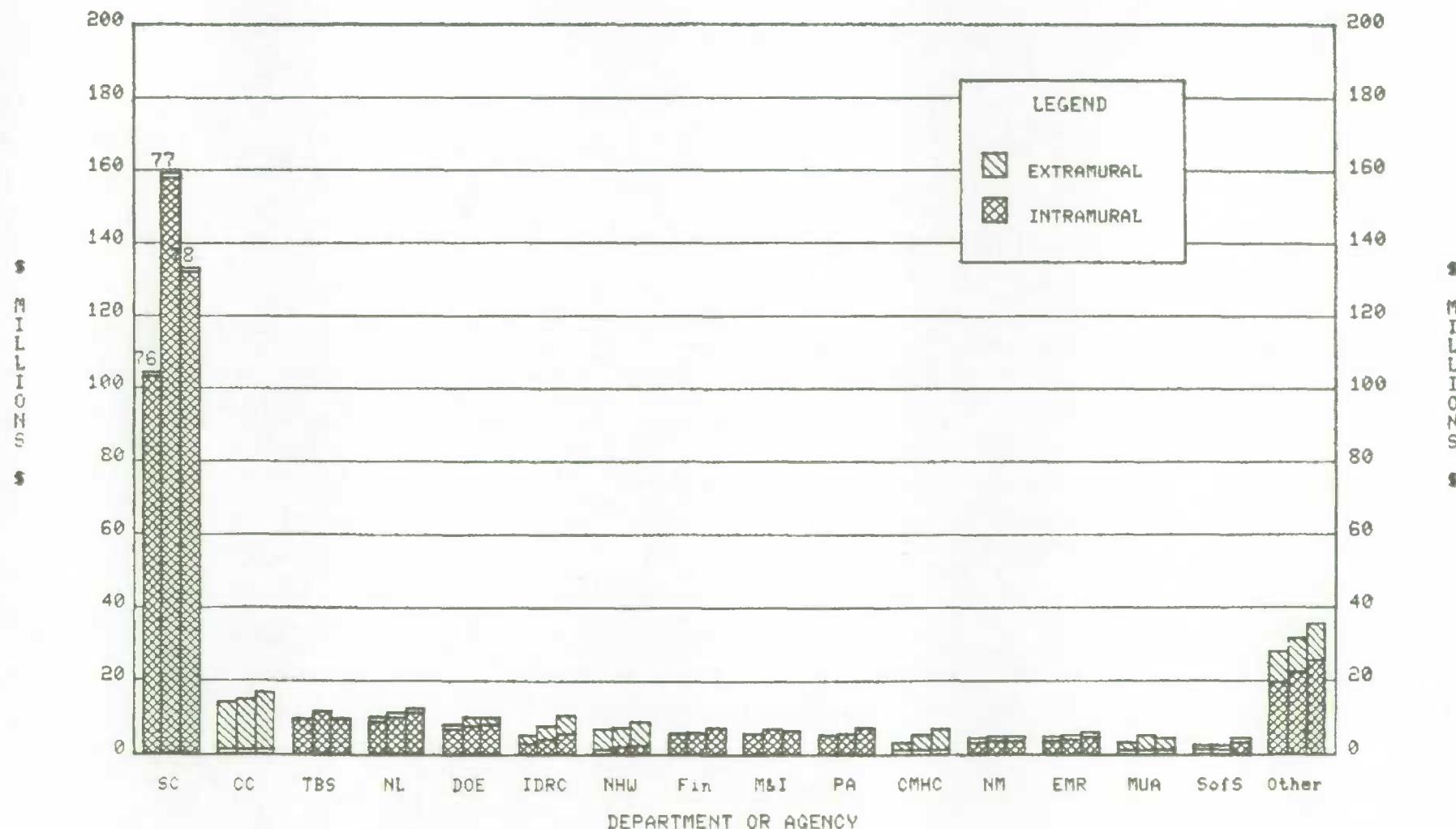
(\$ MILLIONS)

DEPARTMENT OR AGENCY	1975-76			1976-77			1977-78		
	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
SC	103.2	--	103.2	158.4	--	158.4	132.3	--	132.3
CC	0.7	13.1	13.8	1.0	14.0	15.0	1.1	15.9	17.0
TBS	10.0	---	10.0	11.8	---	11.8	9.8	---	9.8
NL	8.9	--	8.9	10.3	--	10.3	11.5	--	11.5
DOE	7.0	0.8	7.9	7.9	2.5	10.4	8.3	2.0	10.4
IDRC	2.8	2.6	5.4	4.3	3.7	8.0	5.7	5.0	10.7
NHW	1.8	5.8	7.6	2.3	4.9	7.2	2.6	6.2	8.8
Fin	5.7	---	5.7	6.4	--	6.4	7.2	--	7.2
M&I	5.9	---	5.9	6.9	---	6.9	6.5	---	6.5
PA	5.4	---	5.4	5.6	---	5.6	7.5	---	7.5
CMHC	1.4	2.1	3.5	1.9	4.4	6.3	1.9	5.9	7.9
NM	3.5	1.0	4.5	3.7	1.1	4.7	4.0	1.2	5.1
EMR	3.9	0.1	4.0	4.3	0.1	4.4	4.9	0.1	5.0
MUA	0.9	2.4	3.3	1.1	4.0	5.1	1.4	3.4	4.8
SofS	1.4	1.5	2.9	1.9	1.8	3.7	3.2	2.0	5.2
EA	2.6	1.6	4.2	1.7	1.2	2.9	1.9	1.4	3.3
MSST	2.3	0.3	2.6	3.2	0.4	3.6	3.7	0.4	4.1
DOC	2.0	0.7	2.7	2.5	0.8	3.3	2.6	0.9	3.4
MOT	0.5	0.9	1.4	1.8	1.7	3.5	1.8	2.0	3.7
CIDA	0.6	1.7	2.2	0.6	1.6	2.3	0.7	1.8	2.6
CBC	0.7	0.9	1.7	0.8	1.2	1.9	0.9	1.2	2.1
NR	1.3	--	1.3	1.8	--	1.8	2.2	--	2.2
INA	1.0	0.3	1.3	1.3	0.5	1.8	1.6	0.6	2.2
Lab	1.7	---	1.7	1.5	---	1.5	1.8	---	1.8
Jus	1.1	0.1	1.3	1.2	0.2	1.3	1.4	0.2	1.6
Scc	1.0	---	1.0	1.0	---	1.0	1.2	---	1.2
CTC	0.4	0.4	0.7	0.4	0.3	0.7	0.4	0.4	0.8
FIRA	0.7	---	0.7	0.6	---	0.6	0.8	---	0.8
DND	0.6	---	0.6	0.7	---	0.7	0.8	---	0.8
COL	0.5	---	0.5	0.7	---	0.7	0.8	---	0.8
Other	2.8	1.5	4.3	2.8	1.4	4.2	3.2	1.5	4.6
TOTAL	182.4	37.8	220.2	250.5	45.7	296.2	233.7	51.9	285.6

*** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

HISTOGRAM 45
HUMAN SCIENCES

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES
BY DEPARTMENT OR AGENCY, 1975-1978



** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

TABLE 46
HUMAN SCIENCES

FEDERAL CURRENT EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES

BY ACTIVITY, BY DEPARTMENT OR AGENCY, 1975-1978

(\$ MILLIONS)

ACTIVITY	DEPT. OR AGENCY	1975-76		1976-77		1977-78	
		\$	%	\$	%	\$	%
GENERAL PURPOSE DATA COLLECTION	SC	97.6	(81.5)	148.5	(86.8)	122.0	(81.6)
	DOE	3.5	(2.9)	3.1	(1.8)	3.9	(2.6)
	NM	2.4	(2.0)	2.4	(1.4)	2.7	(1.8)
	M&I	1.7	(1.4)	2.1	(1.2)	2.0	(1.3)
	CBC	1.7	(1.4)	1.9	(1.1)	2.1	(1.4)
	EA	2.4	(2.0)	1.4	(0.8)	1.6	(1.1)
	Lab	1.7	(1.4)	1.5	(0.9)	1.8	(1.2)
	SofS	0.8	(0.6)	1.4	(0.8)	2.5	(1.7)
	NHW	1.4	(1.2)	1.1	(0.6)	1.4	(0.9)
	TBS	1.1	(0.9)	1.2	(0.7)	1.0	(0.7)
	Other	5.5	(4.6)	6.6	(3.8)	8.6	(5.7)
TOTAL		119.8	(100.0)	171.2	(100.0)	149.6	(100.0)
INFORMATION SERVICES	NL	8.8	(25.4)	10.3	(24.7)	11.5	(23.8)
	PA	5.3	(15.3)	5.6	(13.5)	7.1	(14.8)
	SC	3.9	(11.2)	6.5	(15.6)	7.0	(14.6)
	IDRC	2.3	(6.5)	3.5	(8.5)	4.9	(10.2)
	CC	2.8	(8.1)	3.0	(7.3)	3.5	(7.2)
	DOE	2.9	(8.2)	3.6	(8.7)	2.7	(5.5)
	NM	2.0	(5.8)	2.2	(5.3)	2.3	(4.9)
	NHW	0.9	(2.6)	1.1	(2.7)	1.7	(3.6)
	Other	5.9	(17.0)	5.7	(13.8)	7.3	(15.2)
	TOTAL	34.8	(100.0)	41.5	(100.0)	48.1	(100.0)
ECONOMIC & FEASIBILITY STUDIES	MUA	1.0	(17.3)	1.5	(16.1)	1.4	(12.8)
	DOE	0.2	(3.9)	1.2	(12.9)	2.0	(17.4)
	MOT	0.6	(11.1)	1.2	(12.4)	1.4	(12.8)
	NHW	1.1	(20.9)	0.9	(9.0)	1.1	(9.8)
	SC	---	(---)	1.0	(10.6)	1.1	(9.8)
	EMR	0.6	(11.1)	0.7	(7.1)	0.8	(6.8)
	M&I	0.5	(8.9)	0.6	(6.2)	0.6	(4.9)
	CMHC	0.3	(5.3)	0.5	(5.2)	0.6	(5.4)
	Other	1.2	(21.5)	2.0	(20.5)	2.3	(20.3)
TOTAL		5.5	(100.0)	9.6	(100.0)	11.3	(100.0)

OPERATIONS & POLICY STUDIES	TBS	8.7	(24.1)	9.8	(20.9)	8.4	(17.6)
	Fin	4.2	(11.6)	4.7	(10.0)	5.4	(11.4)
	M&I	3.3	(9.3)	3.9	(8.3)	3.7	(7.7)
	MSST	2.2	(6.1)	2.9	(6.3)	3.5	(7.4)
	DOC	2.3	(6.4)	2.9	(6.1)	3.0	(6.3)
	EMR	1.9	(5.2)	2.1	(4.5)	2.4	(5.0)
	MUA	1.7	(4.6)	2.6	(5.6)	1.5	(3.1)
	DOE	1.2	(3.2)	2.4	(5.1)	1.7	(3.7)
	Other	10.7	(29.5)	15.6	(33.2)	18.0	(37.9)
	TOTAL	36.1	(100.0)	47.0	(100.0)	47.5	(100.0)

EDUCATION SUPPORT	CC	9.9	(52.2)	10.8	(54.7)	12.3	(58.1)
	NHW	2.7	(14.1)	2.4	(12.0)	2.5	(11.7)
	CIDA	1.7	(8.9)	1.6	(8.3)	1.8	(8.5)
	EA	1.6	(8.6)	1.2	(6.1)	1.4	(6.8)
	SofS	1.4	(7.1)	1.2	(6.2)	1.1	(5.0)
	CMHC	0.9	(4.8)	1.1	(5.6)	1.2	(5.7)
	MUA	0.3	(1.6)	0.8	(4.0)	--	(--)
	IDRC	0.2	(1.1)	0.2	(1.2)	0.4	(1.8)
	Other	0.3	(1.6)	0.4	(1.9)	0.5	(2.2)
	TOTAL	19.0	(100.0)	19.8	(100.0)	21.1	(100.0)

ADMIN. OF EXTRAMURAL PROGRAMS	IDRC	1.9	(50.9)	3.1	(54.4)	4.0	(60.3)
	CMHC	0.6	(15.4)	1.0	(17.2)	1.0	(15.0)
	CC	0.6	(16.5)	0.9	(15.1)	1.0	(14.8)
	MOT	0.3	(7.4)	0.3	(5.8)	0.2	(2.5)
	Other	0.4	(9.7)	0.4	(7.5)	0.5	(7.4)
	TOTAL	3.8	(100.0)	5.6	(100.0)	6.6	(100.0)

CAPITAL EXPENSES	SC	0.7	(55.7)	1.0	(69.7)	0.7	(48.2)
	PA	0.1	(5.4)	--	(--)	0.4	(29.3)
	DOE	0.2	(12.2)	0.1	(7.8)	0.1	(6.1)
	NM	0.1	(6.3)	0.1	(6.9)	0.1	(6.0)
	Other	0.3	(20.3)	0.2	(14.2)	0.1	(10.3)
	TOTAL	1.2	(100.0)	1.5	(100.0)	1.4	(100.0)

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

I SCOPE AND LIMITATIONS OF DATA

The figures reported in this document are federal budgetary expenditure on scientific activities as reported by departments in surveys at Main Estimates and Program Forecast time. While it is known that there are other indirect or "non-program" costs incurred in the conduct of these activities they are not normally part of the specific departmental program to which the "scientific" expenditures refer. These "non-program" costs may be services provided by other departments, accomodation costs, or the portion of overall administration program costs that are attributable to scientific activities.

Depending on the purposes of one's analysis, these non-program costs can be included or not. Especially in the areas of budgetary analysis it may be preferable to deal with direct program expenditures only. This is necessary to facilitate the comparison on a consistent base of expenditures in scientific and technological (S&T) activities with other types of expenditures in the federal sector. The application of non-program costs from administration programs for example, if done for S&T activities, would necessitate parallel adjustments to the other areas as reported in the budgetary process. For the purpose of these sorts of analyses this publication presents expenditures that do not include non-program costs.

If one's purpose is to determine the magnitude of federal S&T activities and relate this information to that of other sectors or other countries then it is preferable to include non-program costs. In this context the sum of direct expenditures plus non-program costs represents the "total" cost of the federal scientific and technological effort. With appropriate caution, this figure may be compared to the total spent in industry where all costs direct and indirect may be reported. For just such analyses, among others, Statistics Canada publishes expenditure data that include non-program costs in their publications: "Federal Government Activities in the Natural Sciences" (Cat. No. 13-20 and "Federal Government Activities in the Human Sciences" (Cat. No. 13-205). The intramural expenditures reported in these will thus be greater than in this publication by the amount of non-program costs. The extramural expenditures are not affected and will be the same in both sets of publications. The total figure for intramural plus extramural expenditures naturally will differ in these two series of publications by the amount of non-program costs.

II DEFINITIONS

Departments are requested to make separate submissions for the natural science and for the human science content of their Main Estimates submissions.

The natural sciences encompasses all the disciplines grouped under the life, physical, environmental, mathematical and engineering sciences. The LIFE SCIENCES include the biological sciences, which deal with the origin, development, structure, function and interaction of living things, and the clinical medical sciences, which are concerned with the use of scientific knowledge for the identification, treatment and cure of disease. The PHYSICAL SCIENCES are concerned with the understanding of the material universe and its phenomena. They include the subfields of astronomy, chemistry, physics and other physical sciences. The ENVIRONMENTAL SCIENCES are concerned with the properties of the solar system that affect man's survival and welfare. They include the fields of atmospheric sciences, geological sciences, oceanography, and other environmental sciences. The MATHEMATICAL SCIENCES employ logical reasoning with the aid of symbols and are concerned with the development of methods of operation employing such symbols. The ENGINEERING SCIENCES are concerned with studies directed towards developing engineering principles or towards making specific principles usable in engineering practice.

The term human sciences is synonymous with social sciences and humanities and thus embraces all disciplines involving the study of human actions and conditions and the social, economic and institutional mechanisms affecting humans. Human sciences include such disciplines as:

Anthropology	Library science
Business administration and commerce	Philosophy
Communications	Political science
Criminology	Psychology
Demography	Religious studies
Economics	Social work
Geography	Sociology
History	Urban and regional studies
Languages, literature and linguistics	
Law	

For some programs it will be difficult to distinguish between the natural and human sciences. However, some allocation must be made and in determining this allocation, the respondent is advised to consider the dominant orientation of the projects and the area of expertise of the personnel involved.

SCIENTIFIC ACTIVITIES

NATURAL SCIENCE ACTIVITIES:

Research and experimental development is creative work undertaken on a systematic basis to increase the stock of scientific and technical knowledge or to discover new applications for existing knowledge. The central characteristic of R&D is an appreciable element of novelty. Its end products are new knowledge, products or processes.

1. Routine autopsy on the causes of death is not research but special investigation of a particular mortality in order to establish the side effects of certain treatments is research. Similarly, routine tests, such as blood and bacteriological tests, are not research but a special program of blood tests in connection with the introduction of a new drug is applied research.
2. The keeping of daily records of temperature or of atmospheric pressure is data collection and not research. The investigation of new methods of measuring temperature is research as is the study and development of new systems and techniques for interpreting the data.

In-house R&D – R&D performed by personnel of the reporting program. It may include R&D carried out on behalf of another program on a cost recovery basis.

R&D contracts – Payments to organizations or individuals outside the federal complex for the conduct of R&D intended to directly benefit the reporting program. An R&D contract is considered as being intramural when the activity is performed within facilities provided by the reporting program.

R&D grants — awards to organizations or individuals for the conduct of R&D intended to benefit the recipient of the grant. These funds are normally budgeted as "grants and contributions".

Research fellowships — awards to individuals for advanced research training and experience. Awards intended primarily to support the education of the recipients should be reported as "education support".

Scientific data collection — is the gathering, processing collating and analyzing of data on natural phenomena.

These data are normally the results of surveys, routine laboratory analyses or compilations of operating records. The collection of specimens for museums, zoological and botanical displays is also included. Data collected primarily for internal administrative purposes are excluded.

Data collected as part of an existing or proposed research project are costed against research. Similarly the costs of analyzing existing data as part of a research project are R&D costs, even when the data were originally collected for some other purpose. The development of new techniques for data collection is also to be considered a research activity.

Examples of scientific data collection are routine geological, hydrographic, oceanographic and topographic surveys; routine astronomical observations; maintenance of meteorological records; and wildlife and fisheries surveys.

Scientific information. The costs attributable to this activity are those for the operation of scientific and technical libraries and for the dissemination of information and knowledge by means of scientific and technical journals, books, newsletters, computer tapes, exhibits, films, scientific conferences and symposia.

Testing and standardization is work directed towards the establishment of national standards for materials, devices, products and processes, the calibration of secondary standards and non-routine quality testing. The development of new measures for standards, or of new methods of measuring or testing, is R&D and should be reported as such.

Feasibility studies are technical investigations of proposed innovative engineering projects to provide necessary additional information for decisions on implementation.

Education support consists of grants to individuals or institutions intended to support the education of students in technology and the natural sciences. Grants intended primarily to support the research activities of individuals are reported as either R&D grants or research fellowships.

Administration of extramural programs — the costs of identifiable units engaged in the administration of grants and contracts for scientific activities that are to be performed outside the federal government.

HUMAN SCIENCE ACTIVITIES:

Research and experimental development is creative work undertaken on a systematic basis towards the acquisition of new knowledge about man, his actions and his institutions and the application of this knowledge in new ways. New knowledge involves the integration of newly acquired information into existing hypotheses, the formulation and testing of new hypotheses or the reevaluation of existing observations.

Examples:

1. Investigation of the factors determining regional variations in economic growth.
2. Studies of the effects of an urban development scheme on family group cohesiveness.
3. Investigation of the variables affecting the educational performance of children drawn from different social and ethnic groups.
4. Development of reward systems which take into account the differing motives, attitudes and perception of management and workers.
5. Elaboration of personnel selection techniques, management development programs and industrial training and retraining programs.

General purpose data collection is the routine gathering, processing, collating, analysis and publication of information on human phenomena using surveys, regular and special investigations and compilations of existing records. It excludes data collected primarily for internal administrative purposes (e.g. departmental personnel statistics) as well as the collection of data as part of an R&D project. Examples are the quinquennial censuses, and surveys of employment and production.

Information Services include all services intended to provide information which is of potential use in any other scientific activity. They include library, archival, abstraction, translation and specialized information retrieval services; referral, advisory and clearing house services; conferences, publications and films for general scientific information dissemination.

Economic and feasibility studies are investigations of the socio-economic characteristics and implications of specific situations (e.g. study of the viability of a petro-chemical complex in the Prairie region, cost-benefit study of a proposed paper manufacturing center in Manitoba). Such studies are generally limited to a specific problem and involve the application of established human science techniques and methodologies.

Operations and policy studies involve the analysis and assessment of departmental programs, policies and operations, the activities of units concerned with the continuing analysis and monitoring of external phenomena (e.g. foreign economic statistics, defence and security information) as well as studies to provide an information base for policy development. The work of government royal commissions and task forces frequently falls within this category.

PERFORMERS

The performer is the sector in which the planned scientific activity will be conducted. The basic distinction is between intramural and extramural performance.

Intramural performance is work carried out by the reporting program using personnel assigned to the program and usually in facilities provided for the program. Expenditures on equipment, supplies or facilities are costed against the reporting unit that will use them in the conduct of its scientific activities. The costs of administering intramural and extramural scientific programs are also to be included.

The intramural expenditures reported for scientific activities are those direct costs associated with scientific programs. Non-program ("indirect") costs, such as the value of services provided by other departments without charge and accommodation provided by the reporting agency are to be excluded.

Intramural expenditures are to be divided into current and capital expenditures. Capital expenditures are expenditures on construction, acquisition or preparation of land, buildings, machinery and equipment. All other expenditures are current expenditures.

Extramural payments are classified on the bases of the section to which they are made. Five extramural performers have been selected.

Canadian industry (Canadian business enterprise) — business and government enterprises including public utilities and government-owned firms. Industrial research institutes located at Canadian universities are considered to be in the university sector.

Canadian universities — including affiliated institutes owned, administered or staffed by universities.

Canadian non-profit institutions — charitable foundations, voluntary health organizations, scientific and professional societies, and other organizations not established to earn profits. Non-profit institutions primarily serving or controlled by another sector should be included in that sector.

Foreign — composed of all foreign governments, companies (including foreign subsidiaries of Canadian firms), non-resident foreign nationals and Canadians studying or teaching abroad.

Other performers — any individual or organization not belonging to any of the above sectors. This includes provincial or municipal governments, provincial research councils and foundations.

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Ministry of State Ministère d'État

**Science and
Technology**

**Sciences et
Technologie**

**Research and
Information
Services**

**Services de
recherche et
d'information**

DÉPENSES FÉDÉRALES

EN SCIENCE

1975/76 - 1977/78*

**report no. 100-3
rapport n°.**

L MARS 1977

*Nota Bene: Dépenses intra-muros ne comprennent pas les coûts non liés aux programmes.

This report is also available in English
(MOSST 100-3E)

**prepared for
préparé pour Référence Générale**

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REMERCIEMENT

Le présent rapport donne un instantané des statistiques scientifiques, dans le contexte de la préparation du budget qui s'est récemment terminée par la présentation du Budget principal des dépenses de 1977-1978.

Beaucoup de personnes de nombreux ministères et organismes ont contribué à la préparation de ce rapport. Nous tenons à remercier tout spécialement les membres du Comité interministériel des dépenses scientifiques pour avoir aidé à dégager les données sur les dépenses scientifiques passées et futures sur lesquelles le présent rapport est fondé. Grâce au concours du Secrétariat du Conseil du Trésor, ces statistiques ont été tirées du processus budgétaire avec l'apport du programme des statistiques scientifiques du gouvernement fédéral de Statistique Canada et du MEST annexé au Budget principal des dépenses et aux Prévisions sur les programmes.

Le Centre de la statistique des sciences, bureau satellite de Statistique Canada récemment créé et situé dans les locaux du MEST, a travaillé en très étroite collaboration avec le personnel du MEST et a établi des communications avec d'autres ministères, afin de s'assurer que les données obtenues de cette façon soient exactes, uniformes et, évidemment, fournies à temps. Nous tenons à remercier le personnel du Centre d'avoir bien voulu subir les inconvenients de cette tâche gigantesque exécutée dans des locaux de fortune.

INTRODUCTION

Le présent rapport renferme des tableaux qui font état des déboursés du gouvernement fédéral en matière de sciences humaines et naturelles. Ayant été élaboré à l'intention de personnes qui connaissent déjà la nature des activités scientifiques gouvernementales, il ne présente donc que peu de texte d'explication.

Le rapport comprend trois parties principales et une annexe. Ces trois parties traitent tout à tour des données en matière de sciences humaines et de sciences naturelles, des données en matière de sciences naturelles et des données en matière de sciences humaines. L'annexe donne la définition des expressions et les limites de l'étude. Les lecteurs sont priés de consulter cette annexe avant de tirer des conclusions d'après les données.

Outre la table des matières, le rapport fournit deux index afin d'aider l'utilisateur à repérer les tableaux qu'il désire consulter. Le premier regroupe les tableaux qui présentent des données sur trois domaines d'activité: le total des activités scientifiques, les travaux de recherche-développement et les activités para-scientifiques, et il fournit pour chacun une liste des variables employées. Le deuxième index donne une liste de toutes les variables et pour chacune d'elle, il comprend les variables de référence. Ainsi, les utilisateurs qui s'intéressent à un domaine comme la recherche-développement, ou à l'une des variables, par exemple, pourront retrouver rapidement tous les tableaux pertinents.

La présente publication est une mise à jour du Rapport 100-2F du MEST. Les données utilisées pour la mise à jour sont puisées dans l'enquête sur les dépenses en sciences naturelles et humaines du Budget principal des dépenses de 1977-1978. Les chiffres correspondant à chacune des années financières 1975-1976, 1976-1977 et 1977-1978 sont donc respectivement des données réelles des prévisions et des estimations.

Veuillez noter que les coûts "non liés aux programmes" sont exclus. Vous consulterez l'annexe afin d'avoir l'explication de cette exclusion. Vous pouvez obtenir des données semblables qui renferment les coûts "non liés aux programmes" dans les publications de Statistique Canada intitulées Activités de l'administration fédérale en sciences naturelles (N° de catalogue 13-202) et Activités de l'administration fédérale en sciences humaines (N° de catalogue 13-205).

Vous pouvez obtenir sur demande des relevés détaillés ou différents à partir de ces tableaux.

This publication is also available in English (MOSST Report 100-3E).

ABRÉVIATIONS

AE	Min. des Affaires extérieures	DN	Min. de la Défense nationale
AAC	Min. des Affaires des anciens combattants	EACL	L'Energie atomique du Can. Ltée
ACDI	Agence canadienne de développement international	EER	Min. de l'Expansion économique régionale
ACL	Les Arsenaux canadiens ltée	EMR	Min. de l'Energie, des mines et ressources
AE	Min. des Affaires extérieures	Fin	Ministère des Finances
AEIE	Agence d'examen de l'investissement étranger	IC	Information Canada
Agr	Ministère de l'Agriculture	I & C	Min. de l'Industrie et du Commerce
AIN	Min. des Affaires indiennes et du Nord	Jus	Ministère de la Justice
AP	Archives publiques	MDC	Ministère des Communications
ASC	Min. des Approvisionnements et Services	MDE	Ministère de l'Environnement
BduC	Banque du Canada	MDT	Ministère des Transports
BCP	Bureau du Conseil privé	MEAU	Min. d'Etat des Affaires urbaines
BN	Bibliothèque nationale	MEST	Ministère d'Etat aux Sciences et à la Technologie
CCan	Conseil des arts du Canada	M & I	Ministère de la Main-d'oeuvre et de l'immigration
CAC	Commission d'assurance-chômage	MN	Musées nationaux
C&C	Min. de la Consommation et des Corporations	MP	Ministère des Postes
CCEA	Commission de contrôle de l'énergie atomique	MRN	Ministère du Revenu national
CCL	Comm. canadienne du lait	MSG	Min. du Solliciteur général
CCN	Comm. de la Capitale nationale	MTP	Ministère des Travaux publics
CCT	Comm. canadienne des transports	OCP	Office canadien des provendes
CEC	Conseil économique du Canada	ONE	Office national de l'énergie
CFP	Comm. de la Fonction publique	ONF	Office national du film
CLCI	Comm. de lutte contre l'inflation	R-C	Radio-Canada
CLO	Commissaire aux langues officielles	SC	Statistique Canada
CNR	Conseil national de recherches	SCBEL	Société canadienne des brevets et d'exploitation Limitée
CPN	Conseil des Ports nationaux	SCHL	Société centrale d'hypothèques et de logement
CRDI	Centre de recherches pour le développement international	SCT	Secrétariat du Conseil du trésor
CRM	Conseil de recherches médical	SE	Secrétariat d'Etat
CRTC	Conseil de la Radio-Télévision canadienne	SNBS	Ministère de la Santé nationale et du Bien-être social
CSc	Conseil des sciences	Trav	Ministère du Travail
CSPA	Comm. de surveillance du prix des produits alimentaires	VMSL	Administration de la Voie maritime du Saint-Laurent

SIGNES CONVENTIONNELS

--- néant ou zéro

-- nombres infimes n'ayant pas lieu de figurer

NOTA BENE

1. Les chiffres ayant été arrondis, certains totaux ne correspondent pas exactement à la somme des éléments. Les pourcentages sont calculés à partir des chiffres exacts.
2. L'année de référence est l'année financière du gouvernement fédéral, qui commence le 1er avril d'une année pour se terminer le 31 mars de l'année suivante.
3. Sauf indication contraire, Statistique Canada est la source de toutes les données.

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par dépenses intra-muros et extra-muros.....	AS	7	22	20	50	35	82
	R-D	11	30	24	58	39	49
	ASC	16	40	30	70	45	102
par exécutant.....	AS	8	24	21	52	36	34
	R-D	12	32	25	60	40	92
par activité.....	ASC	-		31	72	46	104
dans les universités et institution à but non lucratif, par type de financement.....	R-D	13	34	26	62	41	94
dans l'industrie, par type de financement.....	R-D	14	36	27	64	42	96

1. AS - Activité scientifique = R-D et ASC
 R-D - Recherche-développement expérimental
 ASC - Activités scientifiques connexes

1

Sciences naturelles et humaines

TABLEAU 1

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES

SCIENCES NATURELLES ET HUMAINES, EN 1975-1978

(\$ MILLIONS)

	1975-76		1976-77		1977-78		TAUX D'ACCROIS. ANNUEL MOYEN
	\$	%	\$	%	\$	%	
SCIENCES NATURELLES	1,048.3	(76.6)	1,167.8	(74.0)	1,247.5	(75.0)	9.1 %
SCIENCES HUMAINES	319.5	(23.4)	409.7	(26.0)	416.7	(25.0)	14.2 %
TOTAL	1,367.8	(100.0)	1,577.4	(100.0)	1,664.1	(100.0)	10.3 %

** N'Y SONT PAS COMPRIS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 2

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES
PAR ACTIVITE, EN 1975-1978

(\$ MILLIONS)

ACTIVITE	1975-76		1976-77		1977-78		TAUX D'ACCROIS. ANNUEL MOYEN
	\$	%	\$	%	\$	%	
RECHERCHE-DEVELOPPEMENT	890.0	(65.1)	999.5	(63.4)	1,078.1	(64.8)	10.1 %
ACT. SCIENTIF. CONNEXES	477.8	(34.9)	577.9	(36.6)	586.0	(35.2)	10.7 %
TOTAL	1,367.8	(100.0)	1,577.4	(100.0)	1,664.1	(100.0)	10.3 %

** N'Y SONT PAS COMPRIS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 3

SCIENCES NATURELLES ET HUMAINES

DEFENSES FEDERALES EN ACTIVITES SCIENTIFIQUES

PAR MINISTÈRE OU ORGANISME, SCIENCES NATURELLES ET HUMAINES, EN 1975-1978

(\$ MILLIONS)

MINISTÈRE OU ORGANISME	1975-76			1976-77			1977-78		
	NATURELLES	HUMAINES	TOTAL	NATURELLES	HUMAINES	TOTAL	NATURELLES	HUMAINES	TOTAL
NDE	248.6	9.6	258.2	262.6	12.7	275.3	277.9	13.7	291.5
CNR	193.6	—	193.6	243.1	—	243.1	272.7	—	272.7
SC	—	105.7	105.7	—	161.7	161.7	—	136.1	136.1
Agir	104.3	1.7	106.0	107.9	2.1	110.0	117.1	2.3	119.4
I&C	97.5	2.1	99.6	115.9	1.0	116.9	82.0	1.1	83.1
EMP	72.6	5.0	77.6	85.4	5.1	90.4	104.7	6.4	111.1
EACI	80.0	—	80.0	94.0	—	94.0	95.8	—	95.8
DH	59.2	1.5	60.6	64.0	1.6	65.6	80.2	1.8	82.1
CRM	48.4	—	48.4	52.1	—	52.1	58.1	—	58.1
SNBS	21.1	21.1	42.2	26.5	23.8	50.3	28.9	27.4	56.3
ACDI	21.1	12.6	33.7	23.1	14.7	37.8	27.1	17.2	44.3
CRDI	15.5	14.6	30.1	17.3	16.9	34.2	17.8	20.3	38.1
MDC	29.5	2.7	32.2	23.3	3.3	26.6	27.4	3.4	30.8
CCan	—	26.7	26.7	—	28.6	28.6	—	32.1	32.1
MDT	12.1	3.3	15.4	16.8	6.4	23.2	17.4	8.9	26.3
Schl	1.6	5.0	6.7	3.4	9.4	12.7	4.8	13.3	18.1
C&C	7.0	2.2	10.2	8.4	3.2	11.6	9.8	3.5	13.3
AIN	2.7	7.3	10.0	2.5	9.4	11.9	2.8	10.3	13.1
ASC	9.3	0.5	9.9	10.6	0.5	11.1	12.2	0.6	12.9
SCT	—	10.1	10.1	—	11.9	11.9	—	9.9	9.9
MN	3.1	6.6	9.7	3.5	6.9	10.5	3.9	7.5	11.3
BN	—	8.9	8.9	—	10.3	10.3	—	11.5	11.5
M&I	—	8.3	8.3	—	9.9	9.9	—	9.4	9.4
MEAU	—	8.5	8.5	—	8.6	8.6	—	8.1	8.1
Fin	—	5.7	5.7	—	6.4	6.4	—	7.2	7.2
AP	—	5.4	5.4	—	5.6	5.6	—	7.5	7.5
Jus	—	4.6	4.6	—	5.0	5.0	—	6.8	6.8
SE	—	3.9	3.9	—	4.2	4.2	—	6.5	6.5
CEC	—	4.2	4.2	—	5.0	5.0	—	5.3	5.3
CFP	—	3.7	3.7	—	4.1	4.1	—	4.7	4.7
MEST	—	2.7	2.7	—	3.9	3.9	—	4.5	4.5
AE	—	4.2	4.2	—	2.9	2.9	—	3.3	3.3
CCEA	9.0	—	9.0	0.6	—	0.6	0.6	—	0.6
MIF	2.7	—	2.7	3.6	—	3.6	3.3	—	3.3
CCT	—	2.5	2.5	—	2.7	2.7	—	2.9	2.9
MSG	—	1.3	1.3	—	3.1	3.1	—	3.3	3.3
BCP	—	3.0	3.0	—	2.7	2.7	—	2.0	2.0
R-C	0.3	1.7	2.0	0.3	1.9	2.3	0.4	2.1	2.4
CSC	—	2.0	2.0	—	2.2	2.2	—	2.4	2.4
Trav	—	2.1	2.1	—	1.9	1.9	—	2.2	2.2
CAC	—	1.6	1.6	—	1.9	1.9	—	2.2	2.2
EER	0.2	0.9	1.1	1.0	1.2	2.2	1.0	1.2	2.2
RC	—	1.4	1.4	—	1.9	1.9	—	2.3	2.3
ONE	1.1	—	1.1	1.2	—	1.3	1.2	—	1.2
CCN	—	0.9	0.3	—	0.9	0.9	—	0.9	0.9
CRTC	—	0.7	0.7	—	0.8	0.8	—	0.8	0.8
REIE	—	0.7	0.7	—	0.6	0.6	—	0.8	0.8
CLO	—	0.5	0.5	—	0.7	0.7	—	0.8	0.8
CLCI	—	—	—	—	0.8	0.8	—	0.9	0.9
GMF	0.4	0.2	0.6	0.5	—	0.5	0.5	—	0.5
MP	—	0.3	0.3	—	0.4	0.4	—	0.4	0.4
CPN	—	0.2	0.2	—	0.3	0.3	—	0.3	0.3
AAC	0.4	0.1	0.4	—	—	—	—	—	—
ACL	0.1	—	0.1	0.1	—	0.1	0.1	—	0.1
OCP	—	0.1	0.1	—	0.1	0.1	—	0.1	0.1
Autres	—	—	—	—	—	—	—	—	—
TOTAL	1,048.3	319.5	1,367.8	1,167.8	409.7	1,577.4	1,247.5	418.7	1,664.1

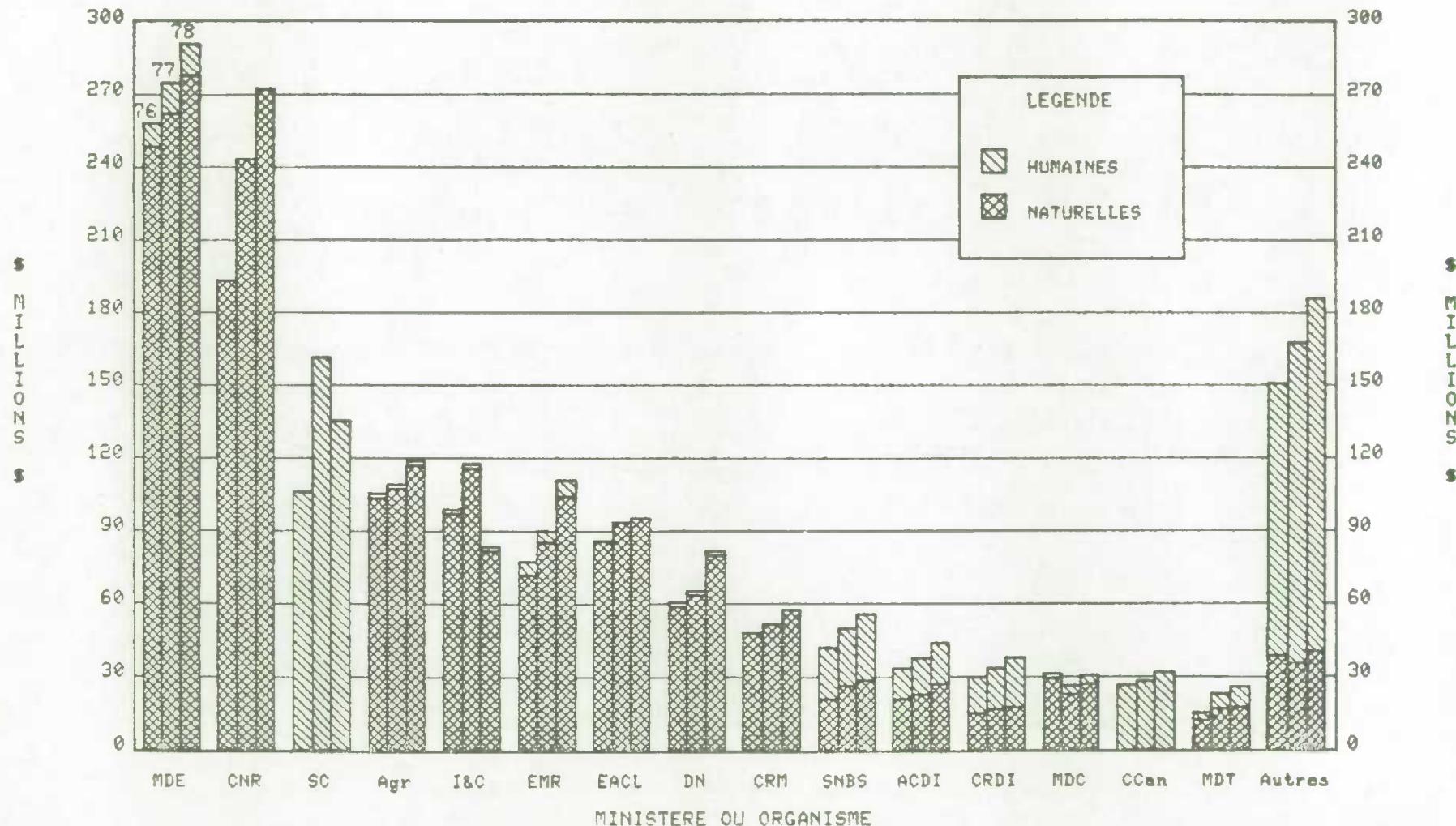
** DEFENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

HISTOGRAMME 3

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES

PAR MINISTERE OU ORGANISME, SCIENCES NATURELLES ET HUMAINES, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 4

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES
PAR EXECUTANT, EN 1975-1978

(\$ MILLIONS)

EXECUTANT	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
INTRA-MUROS	875.8	(64.0)	1,005.7	(63.8)	1,051.7	(63.2)
INDUSTRIE	215.1	(15.7)	267.6	(17.0)	263.7	(15.8)
UNIVERSITES	187.9	(13.7)	202.7	(12.8)	229.1	(13.8)
INSTITUTIONS A BUT NON-LUC.	13.5	(1.0)	18.6	(1.2)	15.3	(0.9)
ETRANGERS	49.0	(3.6)	50.5	(3.2)	53.7	(3.2)
AUTRES CANADIENS	26.7	(1.9)	32.3	(2.0)	50.5	(3.0)
TOTAL	1,367.8	(100.0)	1,577.4	(100.0)	1,664.1	(100.0)

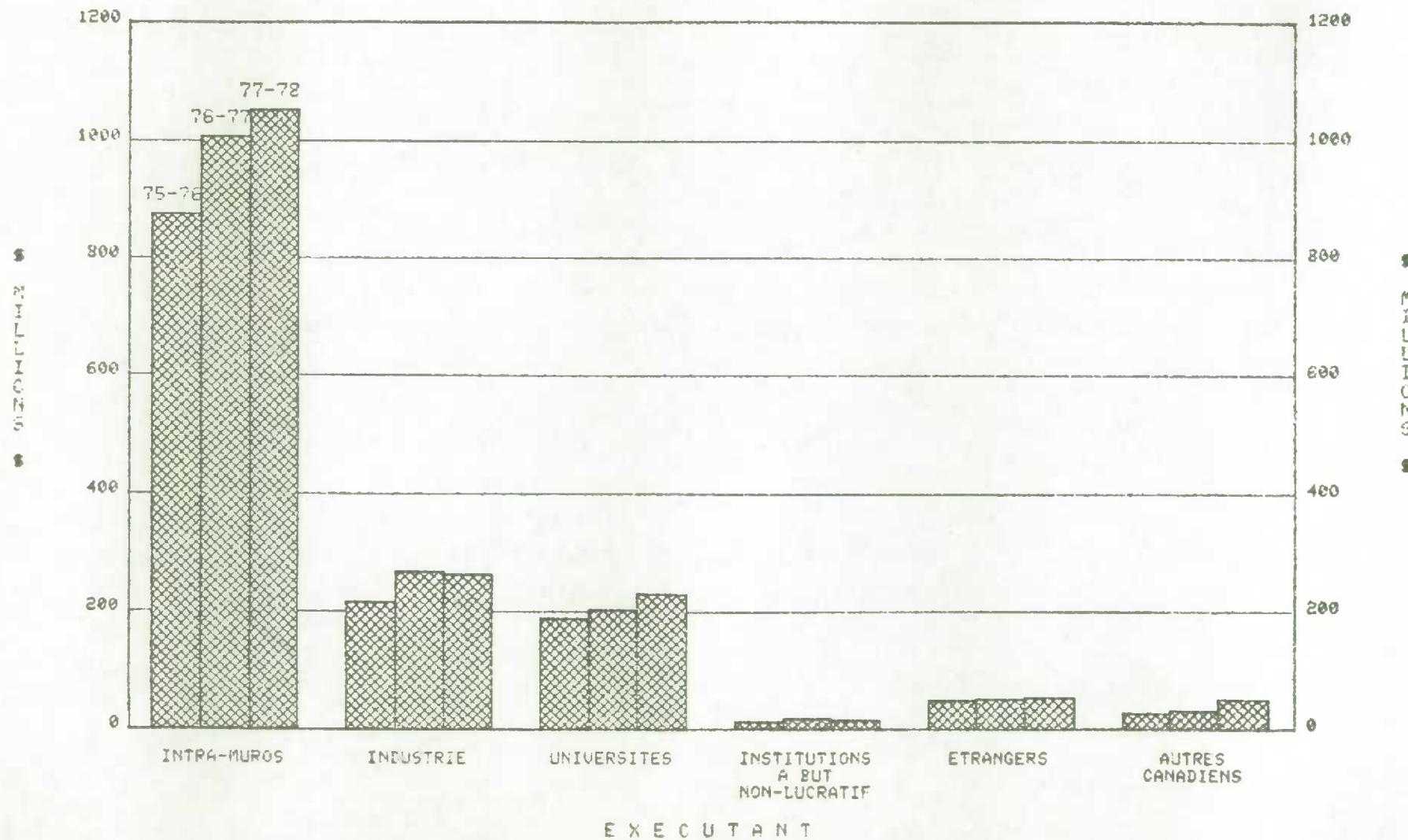
** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRE QUE LES PROGRAMMES

HISTOGRAMME 4

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES

PAR EXECUTANT, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 5

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES

PAR EXECUTANT, PAR ACTIVITE, EN 1975-1978

(\$ MILLIONS)

EXECUTANT	1975-76			1976-77			1977-78		
	R-D	ASC	TOTAL	R-D	ASC	TOTAL	R-D	ASC	TOTAL
INTRA-MUROS	478.8	397.0	875.8	521.8	484.0	1,005.7	570.0	481.7	1,051.7
INDUSTRIE	183.6	31.5	215.1	227.5	40.1	267.6	220.3	43.4	263.7
UNIVERSITES	159.2	28.7	187.9	172.7	30.0	202.7	194.9	34.3	229.1
INSTITUTIONS A BUT NON-LUC.	8.2	5.2	13.5	13.6	5.0	18.6	10.1	5.2	15.3
ETRANGERS	42.3	6.7	49.0	42.4	8.1	50.5	44.4	9.3	53.7
AUTRES CANADIENS	17.8	8.8	26.7	21.6	10.8	32.3	38.5	12.0	50.5
TOTAL	890.0	477.8	1,367.8	999.5	577.9	1,577.4	1,078.1	586.0	1,664.1

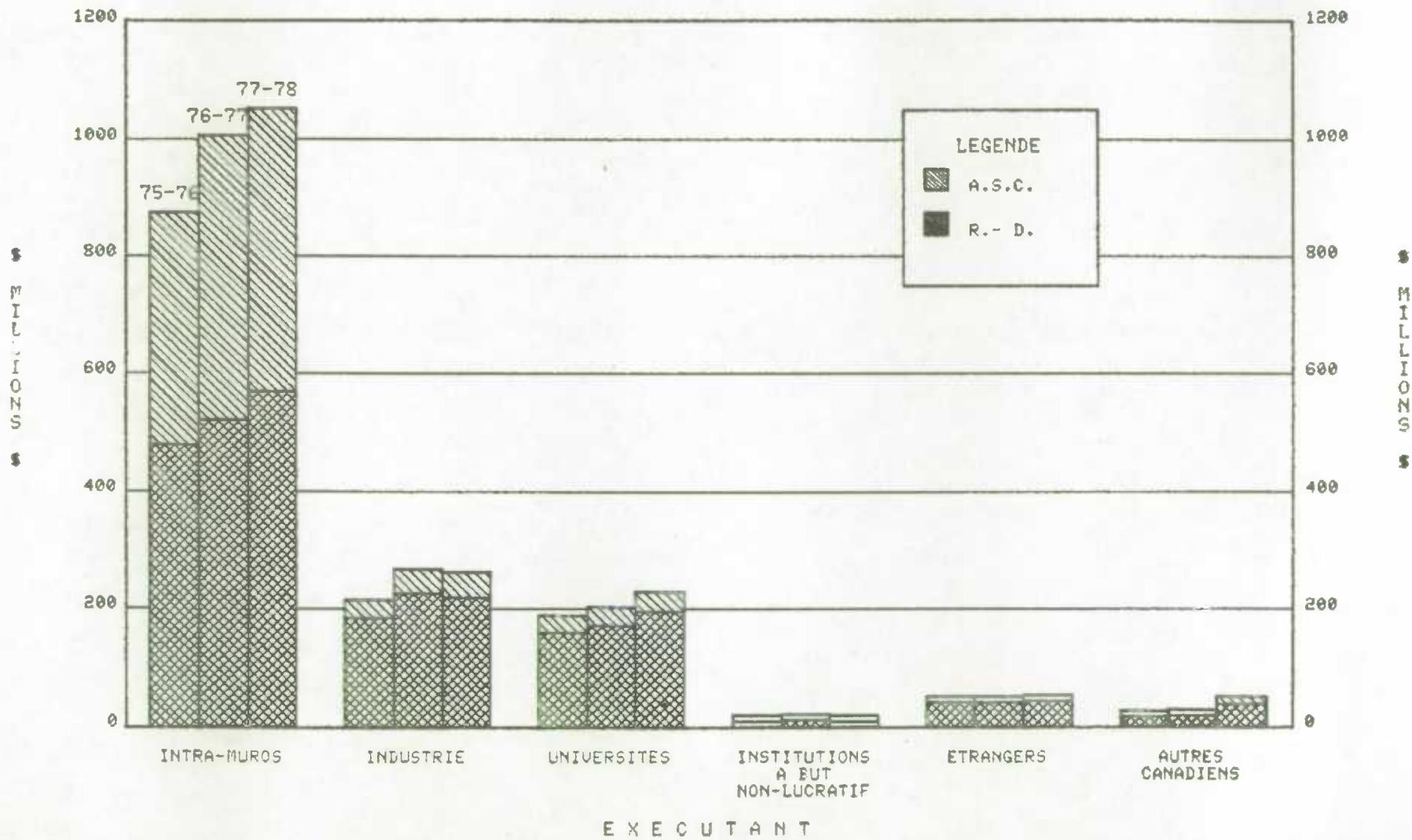
** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRE QUE LES PROGRAMMES

HISTOGRAMME 5

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES

PAR EXECUTANT, PAR ACTIVITE, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COÛTS AUTRES QUE LES PROGRAMMES

TABLEAU 6

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES

PAR MINISTÈRE OU ORGANISME, PAR ACTIVITE, EN 1975-1978

(\$ MILLIONS)

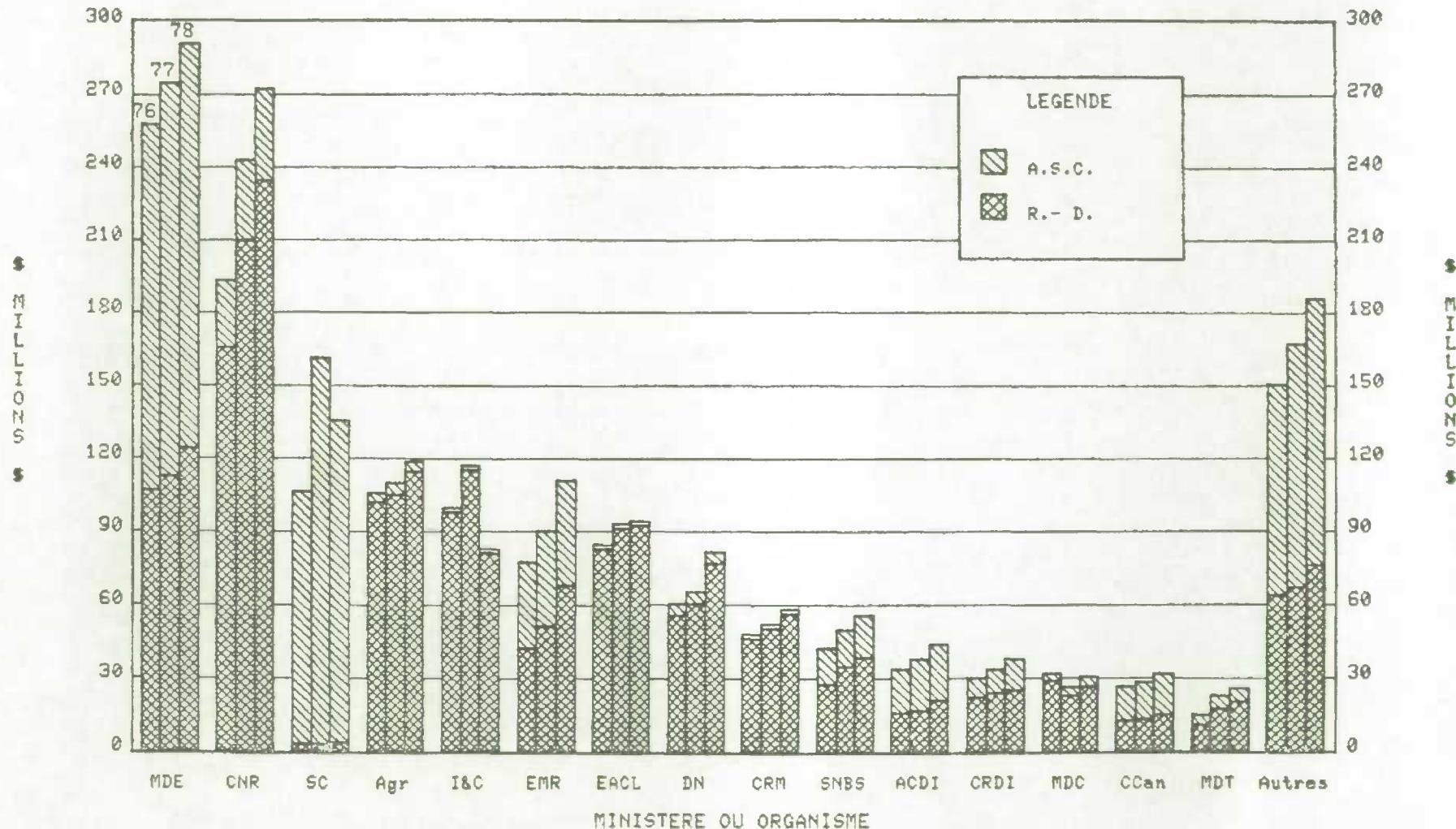
MINISTÈRE OU ORGANISME	1975-76			1976-77			1977-78		
	R-D	ASC	TOTAL	R-D	ASC	TOTAL	R-D	ASC	TOTAL
MDE	107.4	150.8	258.2	113.2	162.1	275.3	124.7	166.8	291.5
CNR	166.0	27.6	193.6	210.2	32.9	243.1	234.7	38.0	272.7
SC	3.4	103.2	106.7	3.2	158.4	161.7	3.8	132.3	136.1
Agr	102.1	3.9	106.0	105.5	4.5	110.0	114.7	4.6	119.4
I&C	98.0	1.6	99.6	115.3	1.7	116.9	81.3	1.8	83.1
EMR	42.3	35.4	77.6	51.0	39.4	90.4	68.4	42.7	111.1
EACL	83.3	2.6	86.0	91.3	2.7	94.0	92.9	2.9	95.8
DN	56.3	4.3	60.6	61.2	4.4	65.6	77.1	4.9	82.1
CRM	46.8	1.7	48.4	50.6	1.4	52.1	56.4	1.6	58.1
SNBS	28.1	14.1	42.2	35.0	15.3	50.3	38.5	17.8	56.3
ACDI	16.2	17.5	33.7	16.9	20.9	37.8	21.2	23.1	44.3
CRDI	22.8	7.3	30.1	24.2	10.0	34.2	25.4	12.8	38.1
MDC	29.0	3.2	32.2	22.8	3.8	26.6	26.9	3.9	30.8
CCan	12.9	13.8	26.7	13.6	15.0	28.6	15.1	17.0	32.1
MDT	10.9	4.5	15.4	17.8	5.4	23.2	20.6	5.7	26.3
SCHL	2.3	4.3	6.7	5.8	7.0	12.7	9.4	8.7	18.1
C&C	2.2	8.0	10.2	2.7	8.9	11.6	3.0	10.3	13.3
AIN	8.5	1.5	10.0	9.9	2.1	11.9	10.3	2.7	13.1
ASC	7.4	2.4	9.9	7.8	3.3	11.1	9.1	3.8	12.9
SCT	0.1	10.0	10.1	0.1	11.8	11.9	0.1	9.8	9.9
MN	3.4	6.3	9.7	3.6	6.8	10.5	4.0	7.4	11.3
BN	---	8.9	8.9	---	10.3	10.3	---	11.5	11.5
M&I	2.5	5.9	8.3	3.0	6.9	9.9	2.9	6.5	9.4
MEAU	5.1	3.3	8.5	3.5	5.1	8.6	3.4	4.8	8.1
Fin	---	5.7	5.7	---	6.4	6.4	---	7.2	7.2
AP	---	5.4	5.4	---	5.6	5.6	---	7.5	7.5
Jus	3.4	1.3	4.6	3.7	1.3	5.0	5.2	1.6	6.8
SE	0.9	2.9	3.9	1.0	3.7	4.7	1.3	5.2	6.5
CEC	4.2	---	4.2	5.0	---	5.0	5.3	---	5.3
CFP	3.7	---	3.7	4.1	---	4.1	4.7	---	4.7
Autres	21.0	20.3	41.2	17.6	20.6	38.2	17.8	22.9	40.7
TOTAL	890.0	477.8	1,367.8	999.5	577.9	1,577.4	1,078.1	586.0	1,664.1

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

HISTOGRAMME 6

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES
PAR MINISTERE OU ORGANISME, PAR ACTIVITE, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 7

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES INTRA-MUROS ET EXTRA-MUROS EN ACTIVITES SCIENTIFIQUES

PAR MINISTÈRE OU ORGANISME, EN 1975-1978

(\$ MILLIONS)

MINISTÈRE OU ORGANISME	1975-76			1976-77			1977-78		
	INTRA- MUROS	EXTRA- MUROS	TOTAL	INTRA- MUROS	EXTRA- MUROS	TOTAL	INTRA- MUROS	EXTRA- MUROS	TOTAL
MDE	243.5	14.7	258.2	256.6	18.7	275.3	270.7	20.8	291.5
CNR	85.3	108.2	193.6	103.0	140.1	243.1	115.1	157.6	272.7
SC	106.6	-	106.7	161.6	-	161.7	136.1	-	136.1
Agr	103.7	2.3	106.0	105.4	4.6	110.0	113.9	5.4	119.4
I&C	3.5	96.1	99.6	3.5	113.4	116.9	3.8	79.2	83.1
EMR	66.1	11.5	77.6	75.4	15.0	90.4	78.3	32.8	111.1
EACL	60.7	25.3	86.0	65.1	28.9	94.0	64.0	31.8	95.8
DN	43.2	17.5	60.6	48.4	17.2	65.6	61.1	20.9	82.1
CRM	1.0	47.4	48.4	1.2	50.8	52.1	1.3	56.7	58.1
SNBS	19.3	22.9	42.2	22.8	27.5	50.3	25.2	31.1	56.3
ACDI	1.2	32.5	33.7	1.3	36.5	37.8	1.6	42.7	44.3
CRDI	10.4	19.7	30.1	12.5	21.7	34.2	14.7	23.4	38.1
MDC	20.4	11.8	32.2	21.2	5.4	26.6	25.1	5.7	30.8
CCan	1.5	25.2	26.7	1.9	26.6	28.6	2.2	29.8	32.1
MDT	5.8	9.6	15.4	7.9	15.3	23.2	9.2	17.1	26.3
SCHL	3.2	3.5	6.7	4.9	7.9	12.7	5.4	12.7	18.1
C&C	9.8	0.4	10.2	11.0	0.6	11.6	12.7	0.6	13.3
AIN	6.5	3.5	10.0	8.2	3.7	11.9	9.3	3.8	13.1
ASC	0.6	9.3	9.9	0.6	10.5	11.1	0.9	12.0	12.9
SCT	10.0	0.1	10.1	11.8	0.1	11.9	9.8	0.1	9.9
MN	7.9	1.9	9.7	8.5	2.0	10.5	9.2	2.1	11.3
BN	8.9	-	8.9	10.3	-	10.3	11.5	-	11.5
M&I	7.2	1.1	8.3	8.5	1.4	9.9	8.1	1.3	9.4
MEAU	2.7	5.8	8.5	2.8	5.9	8.6	1.9	6.2	8.1
Fin	5.7	---	5.7	6.4	---	6.4	7.2	---	7.2
AP	5.4	---	5.4	5.6	---	5.6	7.5	---	7.5
Jus	3.5	1.1	4.6	3.7	1.3	5.0	4.9	1.9	6.8
SE	1.4	2.4	3.9	2.1	2.6	4.7	3.7	2.9	6.5
CEC	4.0	0.2	4.2	4.8	0.2	5.0	5.1	0.2	5.3
CFP	3.7	---	3.7	4.1	---	4.1	4.7	---	4.7
Autres	23.2	18.1	41.2	24.7	13.6	38.2	27.2	13.5	40.7
TOTAL	875.8	492.0	1,367.8	1,005.7	571.7	1,577.4	1,051.7	612.4	1,664.1

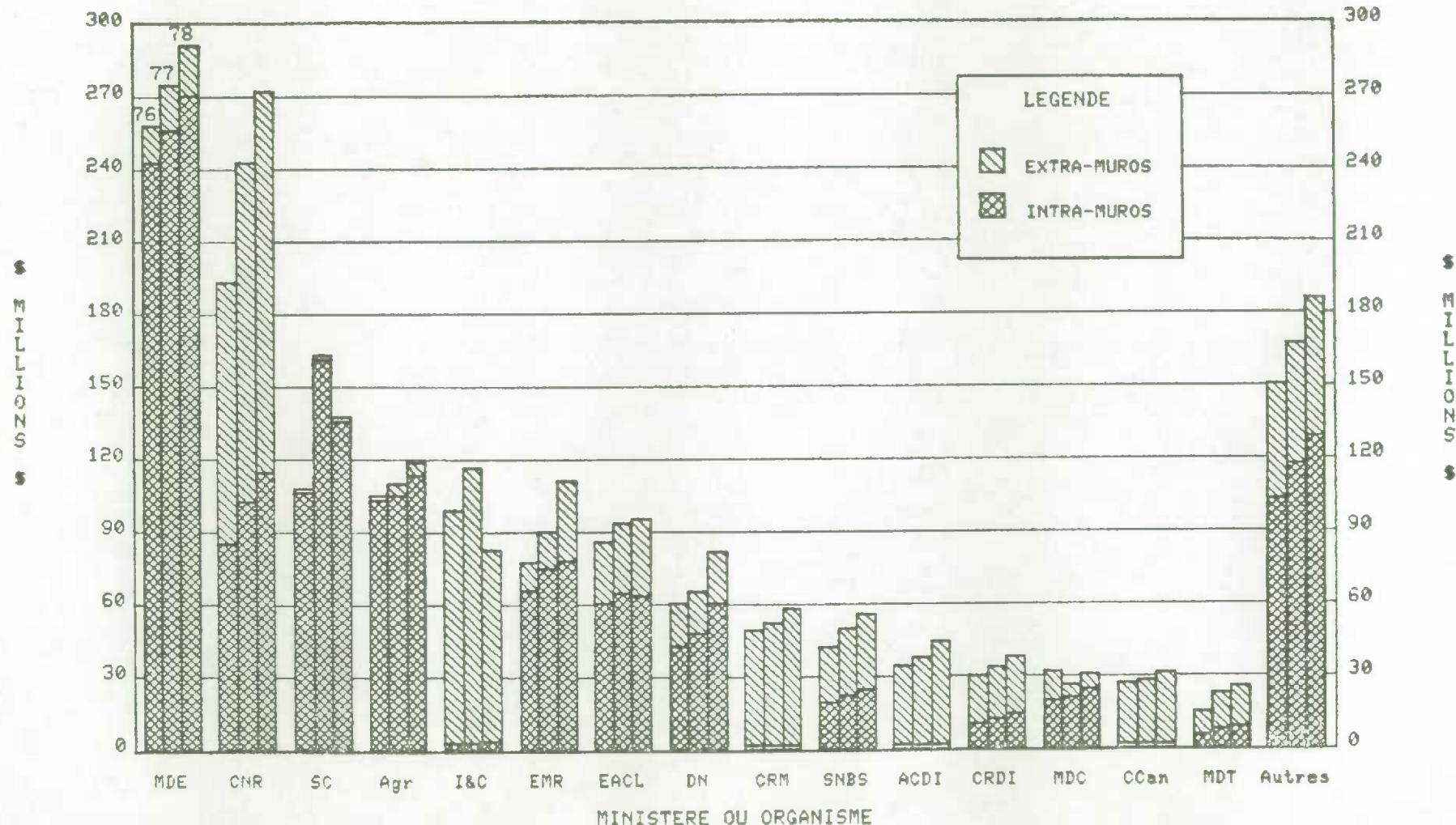
** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

HISTOGRAMME 7

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES INTRA-MUROS ET EXTRA-MUROS EN ACTIVITES SCIENTIFIQUES

PAR MINISTERE OU ORGANISME, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 8

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES

PAR EXECUTANT, PAR ORIGINE DES FONDS, EN 1975-1978

(\$ MILLIONS)

EXECUTANT	MINISTERE OU ORGANISME	1975-76		1976-77		1977-78	
		\$	%	\$	%	\$	%
INTRA-MUROS	MDE	243.5	(27.8)	256.6	(25.5)	270.7	(25.7)
*****	SC	106.6	(12.2)	161.6	(16.1)	136.1	(12.9)
	Agr	103.7	(11.8)	105.4	(10.5)	113.9	(10.8)
	CNR	85.3	(9.7)	103.0	(10.2)	115.1	(10.9)
	EMR	66.1	(7.6)	75.4	(7.5)	78.3	(7.4)
	EACL	60.7	(6.9)	65.1	(6.5)	64.0	(6.1)
	DN	43.2	(4.9)	48.4	(4.8)	61.1	(5.8)
	SNBS	19.3	(2.2)	22.8	(2.3)	25.2	(2.4)
	MDC	20.4	(2.3)	21.2	(2.1)	25.1	(2.4)
	CRDI	10.4	(1.2)	12.5	(1.2)	14.7	(1.4)
	C&C	9.8	(1.1)	11.0	(1.1)	12.7	(1.2)
	SCT	10.0	(1.1)	11.8	(1.2)	9.8	(0.9)
	BN	8.9	(1.0)	10.3	(1.0)	11.5	(1.1)
	MN	7.9	(0.9)	8.5	(0.8)	9.2	(0.9)
	AIN	6.5	(0.7)	8.2	(0.8)	9.3	(0.9)
	Autres	73.5	(8.4)	84.0	(8.4)	94.8	(9.0)
	TOTAL	875.8	(100.0)	1,005.7	(100.0)	1,051.7	(100.0)
EXTRA-MUROS	I&C	92.6	(43.1)	106.6	(39.8)	75.5	(28.6)
*****	CNR	23.1	(10.8)	42.0	(15.7)	50.3	(19.1)
INDUSTRIE	EACL	24.2	(11.3)	28.2	(10.5)	30.8	(11.7)
	ACDI	14.0	(6.5)	17.4	(6.5)	19.1	(7.3)
	DN	13.1	(6.1)	14.2	(5.3)	17.1	(6.5)
	EMR	7.0	(3.3)	10.1	(3.8)	15.5	(5.9)
	MDE	7.6	(3.5)	9.2	(3.4)	10.4	(3.9)
	ASC	7.6	(3.5)	8.7	(3.2)	9.9	(3.7)
	MDT	4.9	(2.3)	9.7	(3.6)	9.9	(3.8)
	MDC	9.2	(4.3)	3.5	(1.3)	3.5	(1.3)
	SCHL	1.1	(0.5)	4.8	(1.8)	8.0	(3.0)
	MN	1.4	(0.7)	1.6	(0.6)	1.7	(0.6)
	MEAU	2.0	(0.9)	1.5	(0.5)	0.8	(0.3)
	R-C	0.9	(0.4)	1.2	(0.4)	1.2	(0.5)
	CAC	0.9	(0.4)	1.1	(0.4)	1.2	(0.5)
	Autres	5.2	(2.4)	8.0	(3.0)	8.6	(3.3)
	TOTAL	215.1	(100.0)	267.6	(100.0)	263.7	(100.0)

UNIVERSITES	CNR	75.6	(40.2)	89.8	(44.3)	101.5	(44.3)
	CRM	45.0	(23.9)	48.6	(24.0)	54.2	(23.6)
	CCan	20.1	(10.7)	20.9	(10.3)	23.4	(10.2)
	SNBS	11.9	(6.3)	15.6	(7.7)	17.6	(7.7)
	MDE	4.2	(2.2)	4.9	(2.4)	5.5	(2.4)
	CCEA	8.9	(4.7)	0.5	(0.2)	0.3	(0.1)
	ACDI	3.0	(1.6)	2.8	(1.4)	3.1	(1.3)
	Agr	1.7	(0.9)	3.1	(1.5)	3.5	(1.5)
	Autres	17.7	(9.4)	16.5	(8.1)	20.1	(8.8)
	TOTAL	187.9	(100.0)	202.7	(100.0)	229.1	(100.0)

INSTITUTIONS A BUT NON-LUCRATIF	SNBS	2.3	(17.1)	2.5	(13.4)	3.2	(20.7)
	I&C	1.2	(8.6)	4.9	(26.6)	1.8	(11.8)
	CCan	2.2	(16.2)	2.3	(12.4)	2.7	(17.3)
	BCP	1.5	(11.1)	2.3	(12.3)	1.6	(10.5)
	CNR	1.5	(11.1)	1.3	(6.9)	1.3	(8.8)
	MDE	1.0	(7.7)	1.5	(8.1)	1.5	(9.9)
	MEAU	1.6	(12.0)	1.1	(5.7)	0.5	(3.0)
	AIN	0.8	(5.7)	0.8	(4.1)	0.7	(4.6)
	Autres	1.4	(10.7)	1.9	(10.4)	2.0	(13.3)
	TOTAL	13.5	(100.0)	18.6	(100.0)	15.3	(100.0)

ETRANGERS	CRDI	17.4	(35.6)	19.0	(37.6)	20.2	(37.6)
	ACDI	15.5	(31.6)	16.3	(32.3)	20.5	(38.2)
	CNR	7.5	(15.2)	6.5	(12.8)	3.6	(6.8)
	CCan	3.0	(6.1)	3.4	(6.7)	3.8	(7.1)
	CRM	2.4	(4.8)	2.2	(4.3)	2.5	(4.6)
	DN	1.4	(2.9)	1.5	(3.0)	2.1	(3.9)
	MEST	0.2	(0.4)	0.3	(0.7)	0.3	(0.6)
	SNBS	0.3	(0.6)	0.2	(0.5)	0.3	(0.5)
	Autres	1.3	(2.7)	1.1	(2.2)	0.4	(0.7)
	TOTAL	49.0	(100.0)	50.5	(100.0)	53.7	(100.0)

AUTRES CANADIENS	SNBS	8.1	(30.5)	9.0	(27.9)	9.8	(19.4)
	EMR	2.3	(8.6)	3.0	(9.3)	14.8	(29.3)
	MDT	2.7	(10.1)	3.1	(9.6)	4.4	(8.8)
	MDE	1.8	(6.6)	2.9	(8.9)	3.2	(6.4)
	MEAU	1.1	(4.2)	2.0	(6.3)	3.1	(6.2)
	SCHL	1.2	(4.4)	1.6	(5.0)	2.9	(5.8)
	CRDI	1.4	(5.2)	1.6	(5.1)	2.0	(4.0)
	MDC	1.2	(4.5)	1.3	(4.1)	1.6	(3.1)
	Autres	6.9	(25.9)	7.7	(23.8)	8.7	(17.2)
	TOTAL	26.7	(100.0)	32.3	(100.0)	50.5	(100.0)

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 9

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES EN RECHERCHE-DEVELOPPEMENT
PAR EXECUTANT, EN 1975-1978

(\$ MILLIONS)

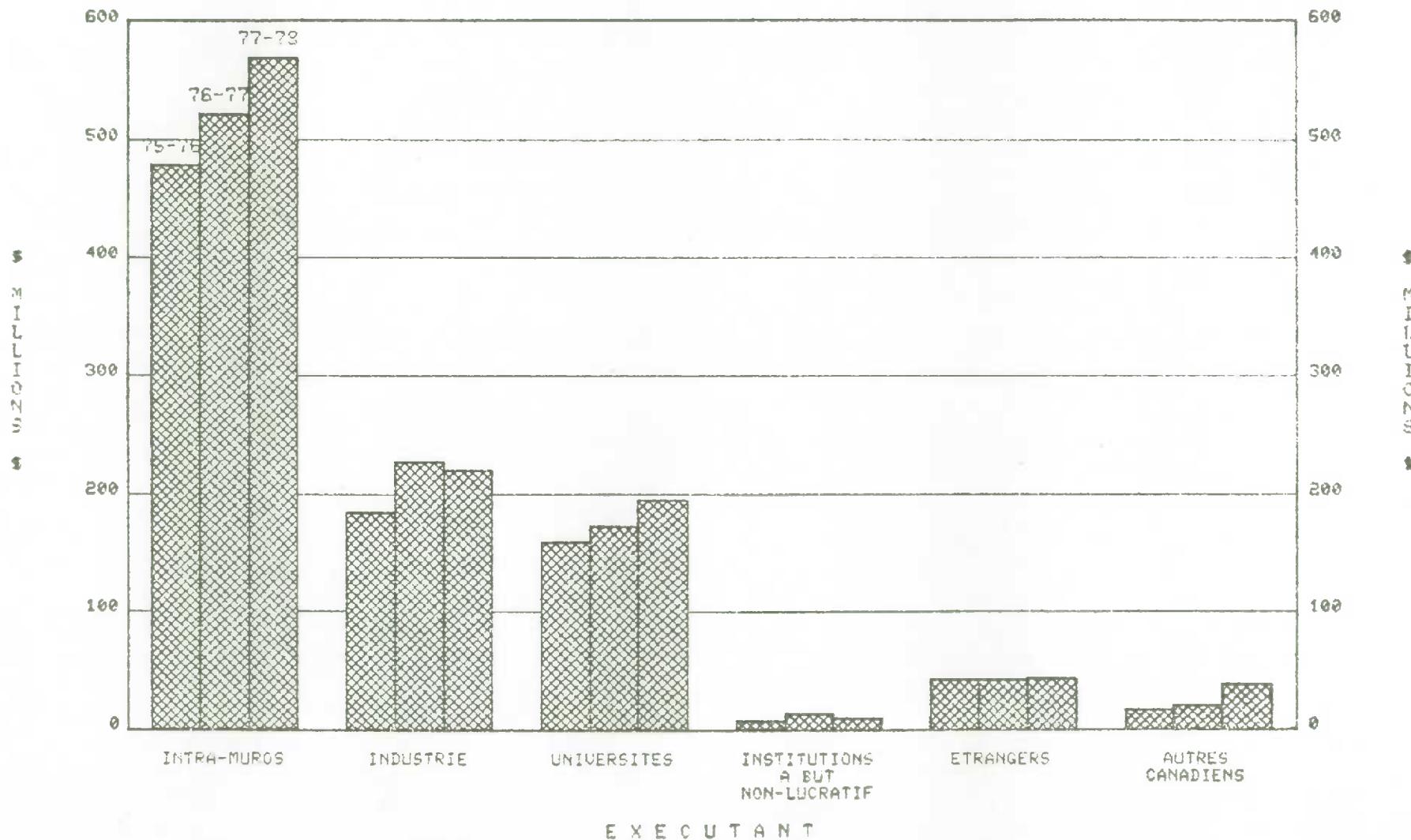
EXECUTANT	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
INTRA-MUROS	478.8	(53.8)	521.8	(52.2)	570.0	(52.9)
INDUSTRIE	183.6	(20.6)	227.5	(22.8)	220.3	(20.4)
UNIVERSITES	159.2	(17.9)	172.7	(17.3)	194.9	(18.1)
INSTITUTIONS A BUT NON-LUC.	8.2	(0.9)	13.6	(1.4)	10.1	(0.9)
ETRANGERS	42.3	(4.8)	42.4	(4.2)	44.4	(4.1)
AUTRES CANADIENS	17.8	(2.0)	21.6	(2.2)	38.5	(3.6)
TOTAL	890.0	(100.0)	999.5	(100.0)	1,078.1	(100.0)

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRE QUE LES PROGRAMMES

HISTOGRAMME 9

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES EN RECHERCHE-DEVELOPPEMENT
PAR EXECUTANT, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 10

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES EN RECHERCHE-DEVELOPPEMENT

PAR TYPE DE FINANCEMENT, EN 1975-1978

(\$ MILLIONS)

TYPE DE FINANCE.	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
DEPENSES COURANTES	828.7	(93.1)	943.5	(94.4)	1,014.5	(94.1)
RECHERCHES INTRA-MUROS	393.4	(44.2)	437.6	(43.8)	475.3	(44.1)
CONTRATS DE RECHERCHE	95.1	(10.7)	124.5	(12.5)	149.4	(13.9)
SUBVENTIONS DE RECHERCHE	304.1	(34.2)	341.7	(34.2)	346.6	(32.1)
BOURSES DE RECHERCHE	14.7	(1.7)	14.2	(1.4)	15.3	(1.4)
ADMIN. DE PROG. EXTRA-MUROS	21.3	(2.4)	25.4	(2.5)	27.8	(2.6)
DEPENSES EN CAPITAL	61.2	(6.9)	56.0	(5.6)	63.7	(5.9)
TOTAL	890.0	(100.0)	999.5	(100.0)	1,078.1	(100.0)

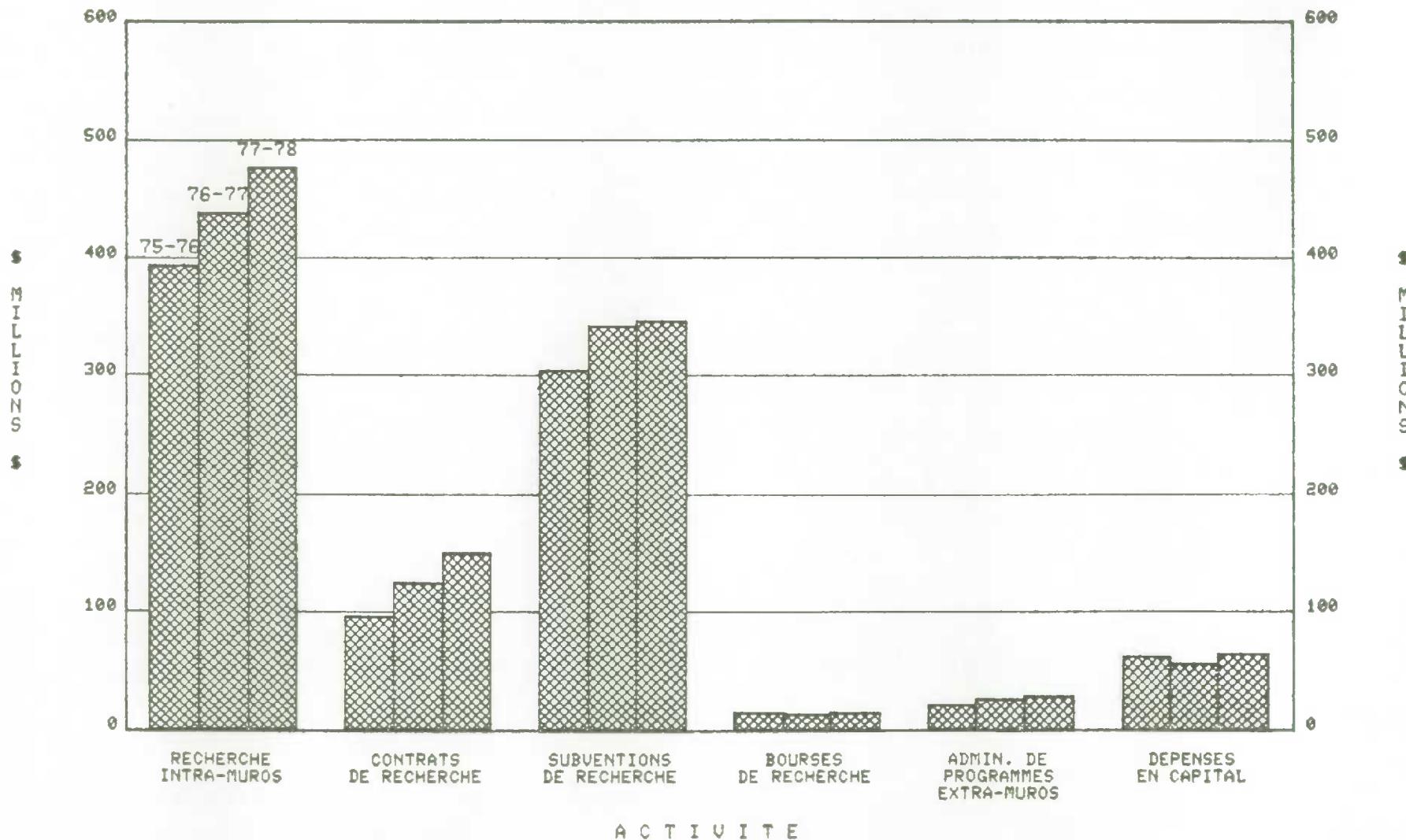
** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRE QUE LES PROGRAMMES

HISTOGRAMME 10

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES EN RECHERCHE-DEVELOPPEMENT

PAR TYPE DE FINANCEMENT, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 11

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES INTRA-MUROS ET EXTRA-MUROS EN RECHERCHE-DEVELOPPEMENT

PAR MINISTÈRE OU ORGANISME, EN 1975-1978

(\$ MILLIONS)

MINISTÈRE OU ORGANISME	1975-76			1976-77			1977-78		
	INTRA- MUROS	EXTRA- MUROS	TOTAL	INTRA- MUROS	EXTRA- MUROS	TOTAL	INTRA- MUROS	EXTRA- MUROS	TOTAL
CNR	67.3	98.7	166.0	80.5	129.7	210.2	88.6	146.1	234.7
MDE	95.9	11.5	107.4	99.0	14.2	113.2	108.0	16.7	124.7
Agr	99.8	2.3	102.1	100.9	4.6	105.5	109.3	5.4	114.7
I&C	3.1	94.9	98.0	3.1	112.2	115.3	3.4	77.9	81.3
EACL	58.1	25.3	83.3	62.4	28.9	91.3	61.1	31.8	92.9
DN	38.8	17.5	56.3	44.0	17.2	61.2	56.2	20.9	77.1
EMR	35.9	6.3	42.3	42.2	8.8	51.0	42.2	26.1	68.4
CRM	0.9	45.9	46.8	1.1	49.5	50.6	1.2	55.2	56.4
SNBS	12.2	15.9	28.1	14.2	20.9	35.0	15.6	22.9	38.5
MDC	18.2	10.8	29.0	18.5	4.4	22.8	22.3	4.6	26.9
CRDI	7.1	15.6	22.8	7.7	16.5	24.2	8.5	16.9	25.4
ACDI	0.4	15.8	16.2	0.4	16.5	16.9	0.5	20.7	21.2
MDT	4.7	6.2	10.9	5.6	12.1	17.8	6.9	13.7	20.6
CCan	0.7	12.1	12.9	1.0	12.6	13.6	1.1	14.0	15.1
AIN	5.3	3.2	8.5	6.7	3.2	9.9	7.2	3.2	10.3
ASC	0.5	6.9	7.4	0.5	7.3	7.8	0.7	8.3	9.1
SCHL	1.2	1.2	2.3	2.4	3.4	5.8	2.8	6.6	9.4
CEC	4.0	0.2	4.2	4.8	0.2	5.0	5.1	0.2	5.3
CFP	3.7	---	3.7	4.1	---	4.1	4.7	---	4.7
Jus	2.4	1.0	3.4	2.6	1.1	3.7	3.5	1.7	5.2
MEAU	1.8	3.4	5.1	1.7	1.9	3.5	0.5	2.8	3.4
MN	2.9	0.5	3.4	3.2	0.5	3.6	3.5	0.5	4.0
SC	3.4	---	3.4	3.2	---	3.2	3.8	---	3.8
CCEA	---	9.0	9.0	---	0.6	0.6	0.1	0.5	0.6
M&I	1.3	1.1	2.5	1.6	1.4	3.0	1.6	1.3	2.9
C&C	1.8	0.4	2.2	2.1	0.6	2.7	2.4	0.6	3.0
MSG	0.5	0.6	1.1	1.1	1.7	2.8	1.0	1.8	2.8
BCP	0.3	0.9	1.2	0.4	2.3	2.7	0.4	1.6	2.0
CCT	1.0	0.8	1.8	1.1	0.9	1.9	1.3	0.9	2.1
CAC	0.6	0.9	1.5	0.7	1.0	1.7	0.8	1.1	2.0
Autres	5.0	2.3	7.4	5.2	3.8	8.9	5.6	4.0	9.6
TOTAL	478.8	411.2	890.0	521.8	477.8	999.5	570.0	508.1	1,078.1

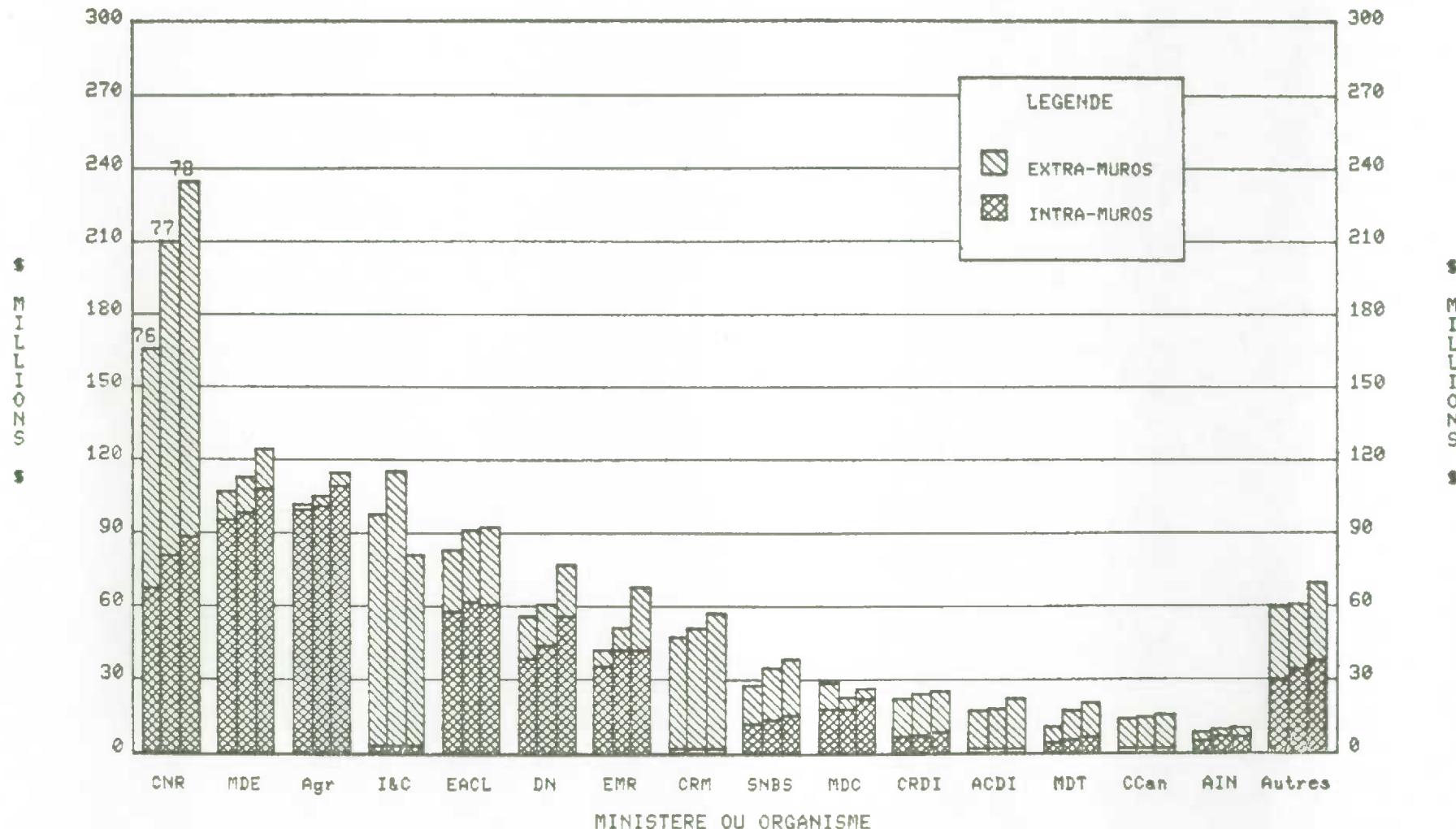
** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

HISTOGRAMME 11

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES INTRA-MUROS ET EXTRA-MUROS EN RECHERCHE-DEVELOPPEMENT

PAR MINISTERE OU ORGANISME, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 12

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES EN RECHERCHE-DEVELOPPEMENT

PAR EXECUTANT, PAR ORIGINE DES FONDS, EN 1975-1978

(\$ MILLIONS)

EXECUTANT	MINISTÈRE OU ORGANISME	1975-76		1976-77		1977-78	
		\$	%	\$	%	\$	%
INTRA-MUROS	Agr	99.8	(20.8)	100.9	(19.3)	109.3	(19.2)
*****	MDE	95.9	(20.0)	99.0	(19.0)	108.0	(19.0)
	CNR	67.3	(14.1)	80.5	(15.4)	88.6	(15.5)
	EACL	58.1	(12.1)	62.4	(12.0)	61.1	(10.7)
	DN	38.8	(8.1)	44.0	(8.4)	56.2	(9.9)
	EMR	35.9	(7.5)	42.2	(8.1)	42.2	(7.4)
	MDC	18.2	(3.8)	18.5	(3.5)	22.3	(3.9)
	SNBS	12.2	(2.5)	14.2	(2.7)	15.6	(2.7)
	CRDI	7.1	(1.5)	7.7	(1.5)	8.5	(1.5)
	AIN	5.3	(1.1)	6.7	(1.3)	7.2	(1.3)
	MDT	4.7	(1.0)	5.6	(1.1)	6.9	(1.2)
	CEC	4.0	(0.8)	4.8	(0.9)	5.1	(0.9)
	CFP	3.7	(0.8)	4.1	(0.8)	4.7	(0.8)
	SC	3.4	(0.7)	3.2	(0.6)	3.8	(0.7)
	MN	2.9	(0.6)	3.2	(0.6)	3.5	(0.6)
	Autres	21.5	(4.5)	24.8	(4.8)	26.9	(4.7)
	TOTAL	478.8	(100.0)	521.8	(100.0)	570.0	(100.0)
EXTRA-MUROS	I&C	92.2	(50.2)	106.4	(46.8)	75.3	(34.2)
*****	CNR	23.1	(12.6)	41.7	(18.3)	49.8	(22.6)
INDUSTRIE	EACL	24.2	(13.2)	28.2	(12.4)	30.8	(14.0)
	DN	13.1	(7.1)	14.2	(6.3)	17.1	(7.8)
	MDE	5.3	(2.9)	6.4	(2.8)	8.2	(3.7)
	ASC	5.5	(3.0)	6.1	(2.7)	6.9	(3.1)
	MDT	3.6	(2.0)	7.7	(3.4)	7.1	(3.2)
	EMR	2.3	(1.2)	4.3	(1.9)	9.2	(4.2)
	MDC	8.5	(4.7)	2.8	(1.2)	2.8	(1.3)
	SCHL	0.4	(0.2)	2.4	(1.1)	5.1	(2.3)
	CAC	0.9	(0.5)	1.0	(0.4)	1.1	(0.5)
	M&I	0.8	(0.5)	1.0	(0.5)	1.0	(0.4)
	EER	0.3	(0.1)	1.2	(0.5)	1.2	(0.5)
	CCT	0.7	(0.4)	0.8	(0.3)	0.8	(0.4)
	Agr	0.2	(0.1)	0.6	(0.3)	0.8	(0.4)
	Autres	2.5	(1.4)	2.8	(1.2)	3.0	(1.4)
	TOTAL	183.6	(100.0)	227.5	(100.0)	220.3	(100.0)

UNIVERSITES	CNR	67.8	(42.6)	81.3	(47.1)	92.5	(47.5)
	CRM	43.5	(27.3)	47.3	(27.4)	52.8	(27.1)
	CCan	12.1	(7.6)	12.6	(7.3)	14.0	(7.2)
	SNBS	8.8	(5.5)	12.4	(7.2)	13.7	(7.0)
	MDE	4.0	(2.5)	4.5	(2.6)	5.0	(2.6)
	CCEA	8.9	(5.6)	0.5	(0.3)	0.3	(0.1)
	Agr	1.7	(1.1)	3.1	(1.8)	3.5	(1.8)
	MDT	1.6	(1.0)	2.0	(1.1)	2.5	(1.3)
	Autres	10.8	(6.8)	9.0	(5.2)	10.7	(5.5)
	TOTAL	159.2	(100.0)	172.7	(100.0)	194.9	(100.0)

INSTITUTIONS À BUT NON-LUCRATIF	I&C	0.9	(11.4)	4.6	(34.1)	1.5	(14.6)
	SNBS	1.2	(14.5)	1.8	(13.5)	2.3	(22.5)
	BCP	0.9	(11.4)	2.3	(16.8)	1.6	(15.9)
	MDE	1.0	(11.6)	1.4	(10.4)	1.4	(14.2)
	MEAU	1.4	(16.9)	0.6	(4.1)	0.4	(4.3)
	CNR	0.8	(10.3)	0.7	(5.3)	0.8	(7.5)
	AIN	0.8	(9.4)	0.8	(5.6)	0.7	(6.9)
	EMR	0.4	(5.1)	0.2	(1.8)	0.2	(2.3)
	Autres	0.8	(9.5)	1.1	(8.4)	1.2	(11.8)
	TOTAL	8.2	(100.0)	13.6	(100.0)	10.1	(100.0)

ETRANGERS	ACDI	15.5	(36.6)	16.3	(38.4)	20.5	(46.2)
	CRDI	14.7	(34.7)	15.2	(36.0)	15.6	(35.1)
	CNR	6.9	(16.4)	5.9	(13.9)	3.1	(6.9)
	CRM	2.3	(5.5)	2.2	(5.1)	2.4	(5.5)
	DN	1.4	(3.4)	1.5	(3.6)	2.1	(4.7)
	SNBS	0.3	(0.7)	0.2	(0.5)	0.3	(0.6)
	MDC	0.8	(1.8)	--	(---)	--	(---)
	MDE	0.2	(0.4)	0.2	(0.5)	0.2	(0.5)
	Autres	0.2	(0.6)	0.8	(1.8)	0.2	(0.4)
	TOTAL	42.3	(100.0)	42.4	(100.0)	44.4	(100.0)

AUTRES CANADIENS	EMR	2.2	(12.1)	2.9	(13.3)	14.6	(38.0)
	SNBS	5.5	(30.7)	6.3	(29.2)	6.5	(16.9)
	MDT	1.0	(5.3)	1.9	(8.8)	4.0	(10.3)
	MDE	1.1	(6.4)	1.7	(7.9)	1.8	(4.8)
	AIN	1.1	(6.3)	1.2	(5.4)	1.2	(3.1)
	Jus	0.9	(4.8)	1.0	(4.7)	1.6	(4.1)
	MDC	0.9	(4.9)	1.0	(4.6)	1.2	(3.1)
	MEAU	0.7	(4.0)	0.4	(2.0)	1.7	(4.4)
	Autres	4.5	(25.4)	5.2	(24.0)	5.9	(15.3)
	TOTAL	17.8	(100.0)	21.6	(100.0)	38.5	(100.0)

*** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 13

SCIENCES NATURELLES ET HUMAINES

AIDE FEDERALE A LA RECHERCHE-DEVELOPPEMENT
 DANS LES UNIVERSITES ET LES INSTITUTIONS A BUT NON-LUCRATIF
 PAR MINISTERE OU ORGANISME, EN 1975-1978

(\$ MILLIONS)

MINISTERE OU ORGANISME	1975-76		1976-77		1977-78	
	SUBVENT.	CONTRATS	SUBVENT.	CONTRATS	SUBVENT.	CONTRATS
CNR	66.7	0.2	80.2	0.4	91.7	0.5
CRM	41.4	---	45.4	---	50.7	---
SNBS	9.6	0.1	13.7	0.1	15.4	0.2
CCan	8.2	---	8.7	---	9.6	---
MDE	2.6	2.3	3.6	2.2	4.0	2.4
CCEA	8.8	0.1	---	0.5	---	0.3
I&C	1.5	-	5.1	---	1.9	---
Agr	1.1	0.5	1.9	1.2	1.8	1.7
DN	2.4	0.6	0.6	0.8	0.6	1.1
EMR	1.5	0.3	1.3	0.3	1.5	0.8
MDT	0.5	0.9	0.7	1.1	0.9	1.4
BCP	0.9	0.1	2.0	0.3	1.0	0.6
AIN	0.3	1.2	0.3	1.2	0.3	1.1
MEAU	1.4	0.4	0.8	0.3	0.6	0.3
ASC	---	1.1	---	1.1	---	1.3
SE	0.7	0.1	0.7	-	0.9	---
CRDI	0.6	---	0.8	---	0.8	---
MSG	0.1	0.2	0.2	0.7	0.2	0.7
MDC	---	0.7	---	0.6	---	0.6
EACL	---	0.6	---	0.4	---	0.6
Autres	0.5	0.6	0.3	0.6	0.4	0.7
TOTAL	149.0	9.9	166.3	11.9	182.2	14.2

HISTOGRAMME 13

SCIENCES NATURELLES ET HUMAINES

AIDE FEDERALE A LA RECHERCHE-DEVELOPPEMENT
DANS LES UNIVERSITES ET LES INSTITUTIONS A BUT NON-LUCRATIF
PAR MINISTERE OU ORGANISME, EN 1975-1978

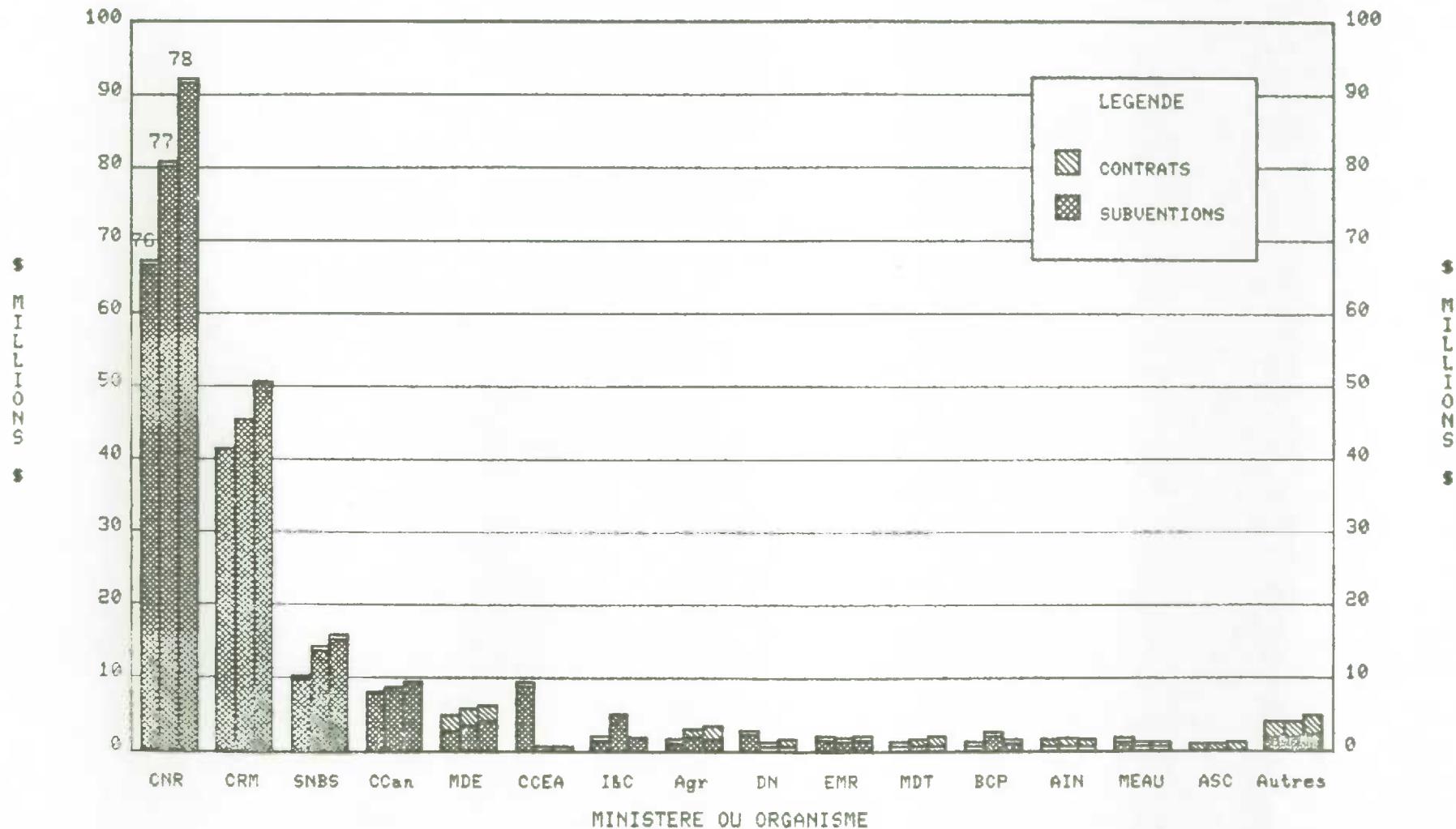


TABLEAU 14

SCIENCES NATURELLES ET HUMAINES

AIDE FEDERALE A LA RECHERCHE-DEVELOPPEMENT

DANS L' INDUSTRIE

PAR MINISTERE OU ORGANISME, EN 1975-1978

(\$ MILLIONS)

MINISTÈRE OU ORGANISME	1975-76		1976-77		1977-78	
	SUBVENT.	CONTRATS	SUBVENT.	CONTRATS	SUBVENT.	CONTRATS
I&C	91.9	0.2	106.3	0.1	75.2	0.1
CNR	14.1	8.2	15.2	25.6	16.6	32.1
EACL	---	24.2	---	28.2	---	30.8
DN	1.7	11.4	---	14.2	---	17.1
MDE	---	5.3	---	6.4	---	8.2
ASC	---	5.5	---	6.1	---	6.9
MDT	---	3.6	---	7.7	---	7.1
EMR	---	2.3	---	4.3	---	9.2
MDC	---	8.5	---	2.8	---	2.8
SCHL	---	0.3	2.3	0.1	4.8	0.3
CAC	---	0.9	---	1.0	---	1.1
M&I	---	0.8	---	1.0	---	1.0
EER	0.2	0.1	1.0	0.2	1.0	0.2
CCT	---	0.7	---	0.8	---	0.8
Agr	---	0.2	0.1	0.5	0.1	0.7
AİN	---	0.6	---	0.5	---	0.6
MEAU	---	0.9	---	0.4	---	0.3
MSG	---	0.1	---	0.4	---	0.5
MTP	---	0.2	---	0.4	---	0.4
C&C	---	0.1	---	0.2	---	0.3
Autres	0.2	0.5	0.2	0.7	0.2	0.8
TOTAL	108.2	74.7	125.1	101.5	98.0	121.3

HISTOGRAMME 14

SCIENCES NATURELLES ET HUMAINES

AIDE FEDERALE A LA RECHERCHE-DEVELOPPEMENT

DANS L'INDUSTRIE

PAR MINISTERE OU ORGANISME, EN 1975-1978

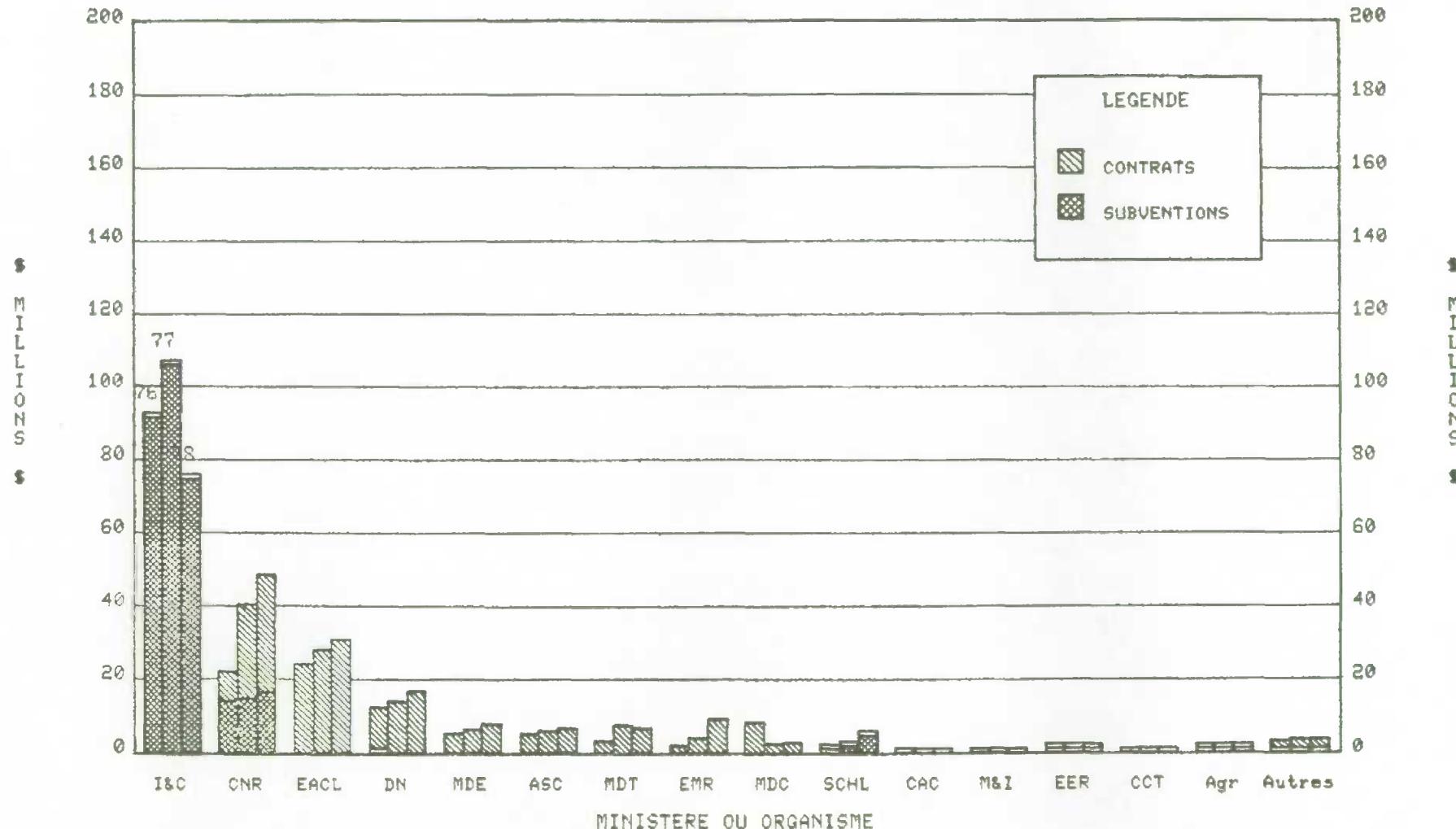


TABLEAU 15

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES CONNEXES
PAR EXECUTANT, EN 1975-1978

(\$ MILLIONS)

EXECUTANT	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
INTRA-MUROS	397.0	(83.1)	484.0	(83.7)	481.7	(82.2)
INDUSTRIE	31.5	(6.6)	40.1	(6.9)	43.4	(7.4)
UNIVERSITES	28.7	(6.0)	30.0	(5.2)	34.3	(5.9)
INSTITUTIONS A BUT NON-LUC.	5.2	(1.1)	5.0	(0.9)	5.2	(0.9)
ETRANGERS	6.7	(1.4)	8.1	(1.4)	9.3	(1.6)
AUTRES CANADIENS	8.8	(1.8)	10.8	(1.9)	12.0	(2.1)
TOTAL	477.8	(100.0)	577.9	(100.0)	586.0	(100.0)

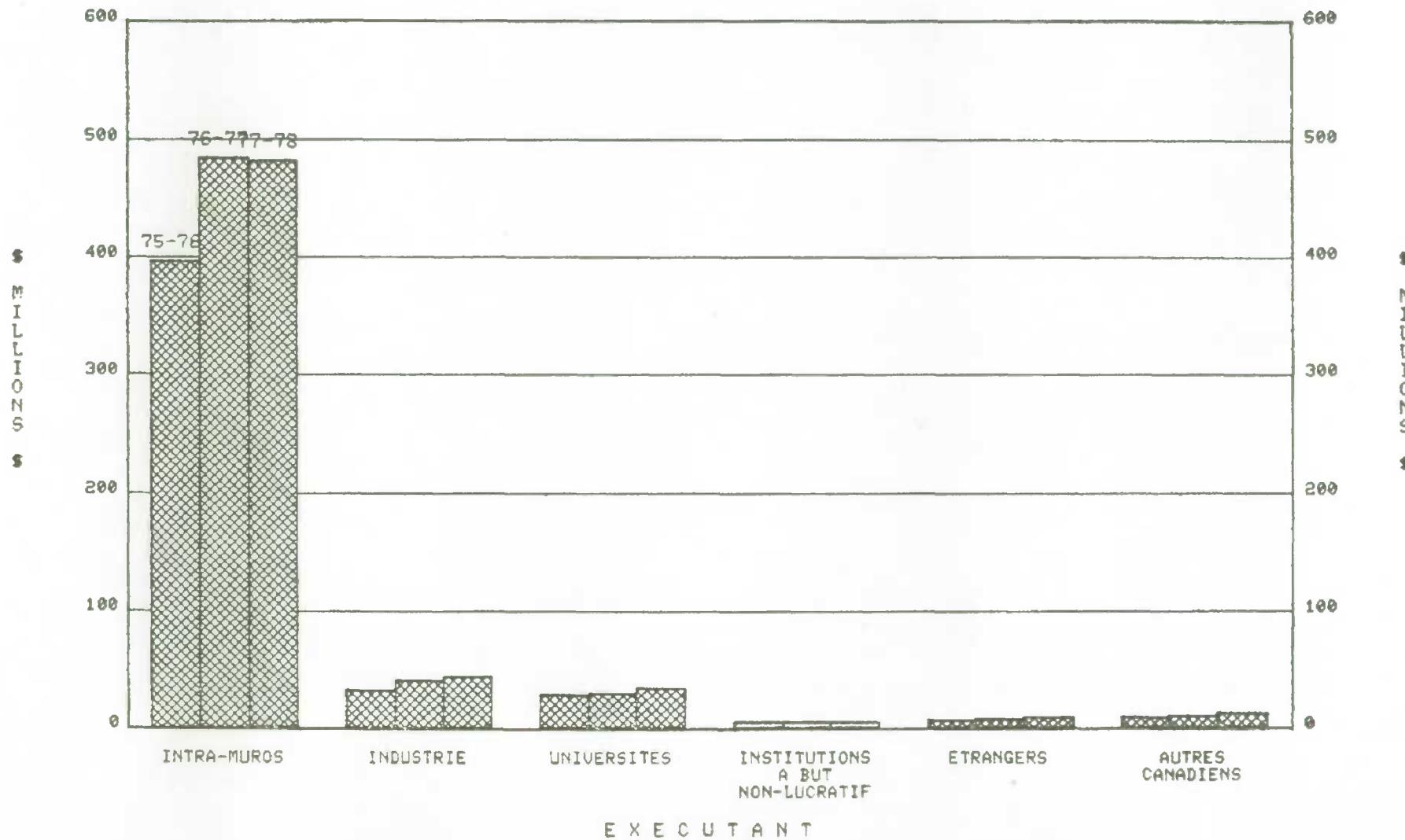
** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRE QUE LES PROGRAMMES

HISTOGRAMME 15

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES CONNEXES

PAR EXECUTANT, EN 1975-1978



** DEPENSES ENTRA-MUROS NE COMPRENNENT PAS LES COÛTS AUTRES QUE LES PROGRAMMES

TABLEAU 16

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES INTRA-MUROS ET EXTRA-MUROS EN ACTIVITES SCIENTIFIQUES CONNEXES

PAR MINISTÈRE OU ORGANISME, EN 1975-1978

(\$ MILLIONS)

MINISTÈRE OU ORGANISME	1975-76			1976-77			1977-78		
	INTRA- MUROS	EXTRA- MUROS	TOTAL	INTRA- MUROS	EXTRA- MUROS	TOTAL	INTRA- MUROS	EXTRA- MUROS	TOTAL
MDE	147.6	3.2	150.8	157.6	4.5	162.1	162.7	4.1	166.8
SC	103.2	--	103.2	158.4	--	158.4	132.3	--	132.3
EMR	30.2	5.2	35.4	33.2	6.2	39.4	36.1	6.6	42.7
CNR	18.0	9.6	27.6	22.4	10.5	32.9	26.5	11.5	38.0
ACDI	0.8	16.7	17.5	0.9	20.0	20.9	1.1	22.0	23.1
SNBS	7.1	7.0	14.1	8.6	6.7	15.3	9.6	8.2	17.8
CCan	0.7	13.1	13.8	1.0	14.0	15.0	1.1	15.9	17.0
SCT	10.0	--	10.0	11.8	--	11.8	9.8	--	9.8
BN	8.9	--	8.9	10.3	--	10.3	11.5	--	11.5
CRDI	3.3	4.1	7.3	4.8	5.2	10.0	6.3	6.5	12.8
C&C	8.0	--	8.0	8.9	--	8.9	10.3	--	10.3
MN	4.9	1.4	6.3	5.3	1.5	6.8	5.7	1.7	7.4
SCHL	2.0	2.3	4.3	2.5	4.5	7.0	2.6	6.1	8.7
Fin	5.7	--	5.7	6.4	--	6.4	7.2	--	7.2
M&I	5.9	--	5.9	6.9	--	6.9	6.5	--	6.5
AP	5.4	--	5.4	5.6	--	5.6	7.5	--	7.5
MDT	1.1	3.4	4.5	2.2	3.2	5.4	2.3	3.4	5.7
DN	4.3	--	4.3	4.4	--	4.4	4.9	--	4.9
MEAU	0.9	2.4	3.3	1.1	4.0	5.1	1.4	3.4	4.8
Agr	3.9	--	3.9	4.5	--	4.5	4.6	--	4.6
SE	1.4	1.5	2.9	1.9	1.8	3.7	3.2	2.0	5.2
MDC	2.2	1.0	3.2	2.7	1.1	3.8	2.8	1.1	3.9
AE	2.6	1.6	4.2	1.7	1.2	2.9	1.9	1.4	3.3
MEST	2.3	0.3	2.6	3.2	0.4	3.6	3.7	0.4	4.1
ASC	0.1	2.3	2.4	0.1	3.2	3.3	0.2	3.7	3.8
EACL	2.6	--	2.6	2.7	--	2.7	2.9	--	2.9
AIN	1.2	0.3	1.5	1.6	0.5	2.1	2.2	0.6	2.7
R-C	0.7	0.9	1.7	0.8	1.2	1.9	0.9	1.2	2.1
RC	1.3	--	1.3	1.8	--	1.8	2.2	--	2.2
I&C	0.4	1.2	1.6	0.4	1.2	1.7	0.5	1.3	1.8
Autres	10.1	3.4	13.5	10.2	3.0	13.2	11.2	3.2	14.4
TOTAL	397.0	80.9	477.8	484.0	93.9	577.9	481.7	104.3	586.0

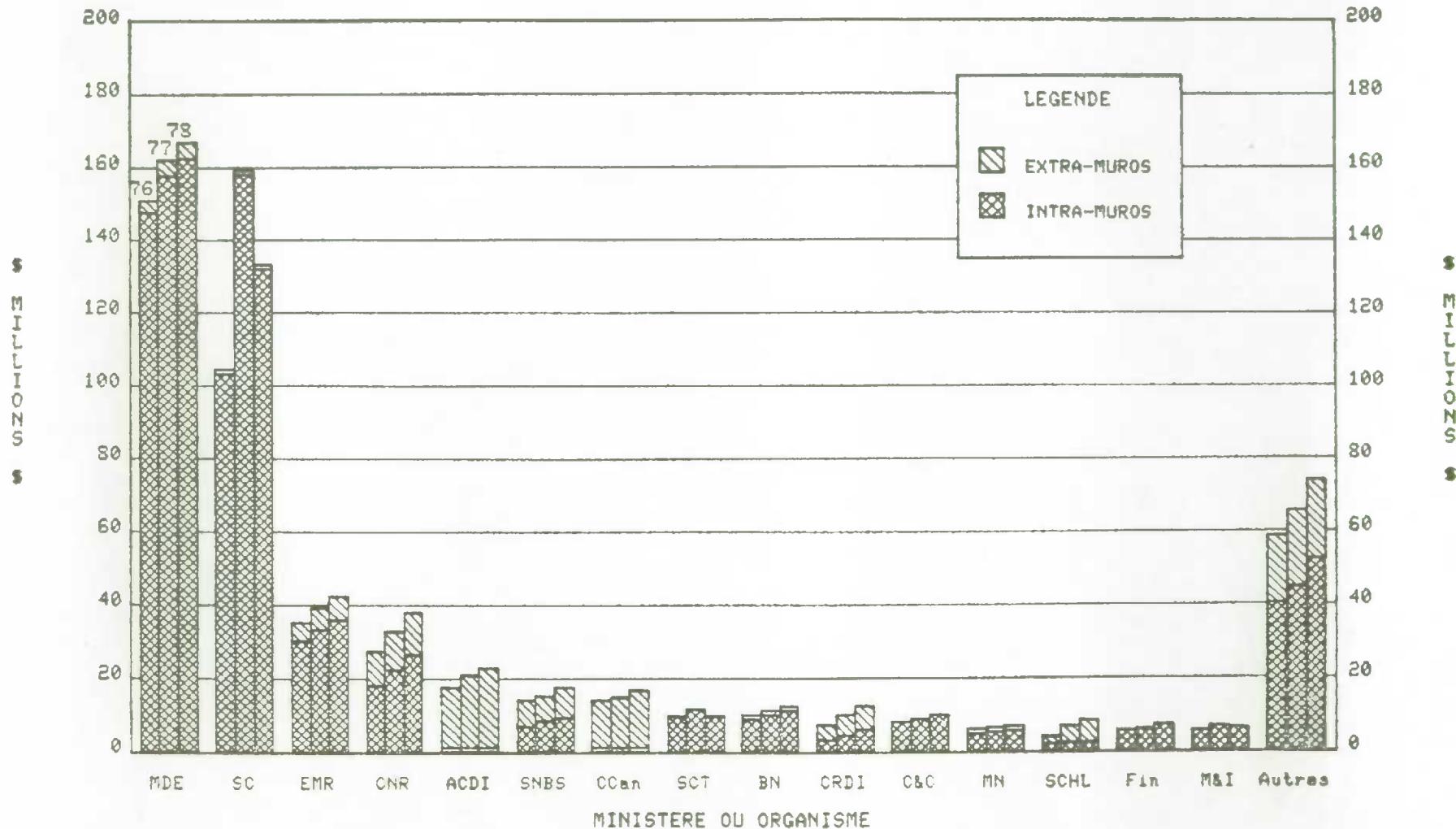
** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

HISTOGRAMME 16

SCIENCES NATURELLES ET HUMAINES

DEPENSES FEDERALES INTRA-MUROS ET EXTRA-MUROS EN ACTIVITES SCIENTIFIQUES CONNEXES

PAR MINISTERE OU ORGANISME, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COÛTS AUTRES QUE LES PROGRAMMES



2

Sciences naturelles

TABLEAU 17

SCIENCES NATURELLES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES
PAR EXECUTANT, EN 1975-1978

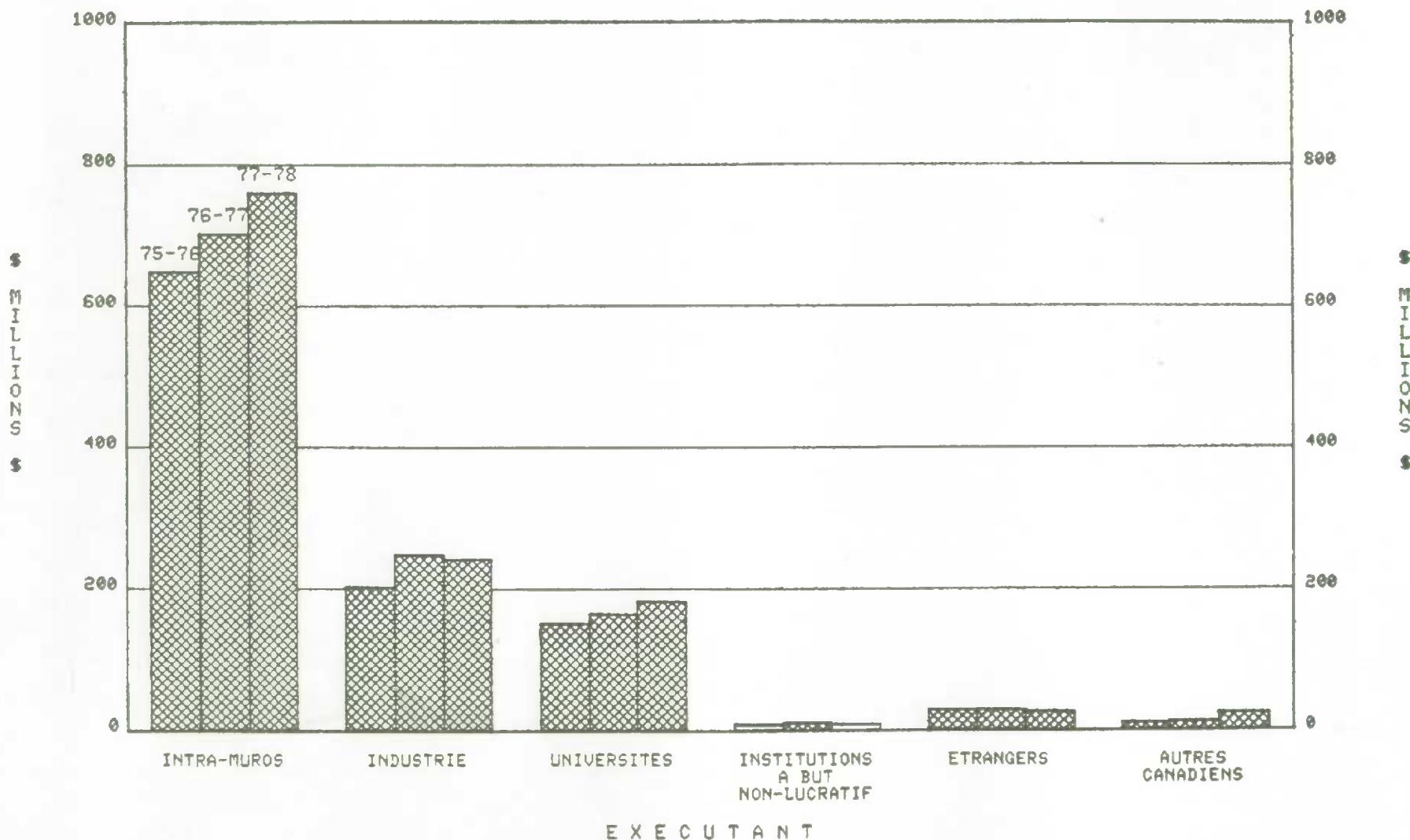
(\$ MILLIONS)

EXECUTANT	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
INTRA-MUROS	648.4	(61.9)	703.9	(60.3)	761.4	(61.0)
INDUSTRIE	202.6	(19.3)	249.1	(21.3)	243.4	(19.5)
UNIVERSITES	151.6	(14.5)	164.2	(14.1)	183.4	(14.7)
INSTITUTIONS A BUT NON-LUC.	6.0	(0.6)	10.3	(0.9)	7.8	(0.6)
ETRANGERS	29.4	(2.8)	28.1	(2.4)	27.3	(2.2)
AUTRES CANADIENS	10.3	(1.0)	12.2	(1.0)	24.1	(1.9)
TOTAL	1,048.3	(100.0)	1,167.8	(100.0)	1,247.5	(100.0)

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRE QUE LES PROGRAMMES

HISTOGRAMME 17
SCIENCES NATURELLES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES
PAR EXECUTANT, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 18

SCIENCES NATURELLES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES

PAR EXECUTANT, PAR ACTIVITE, EN 1975-1978

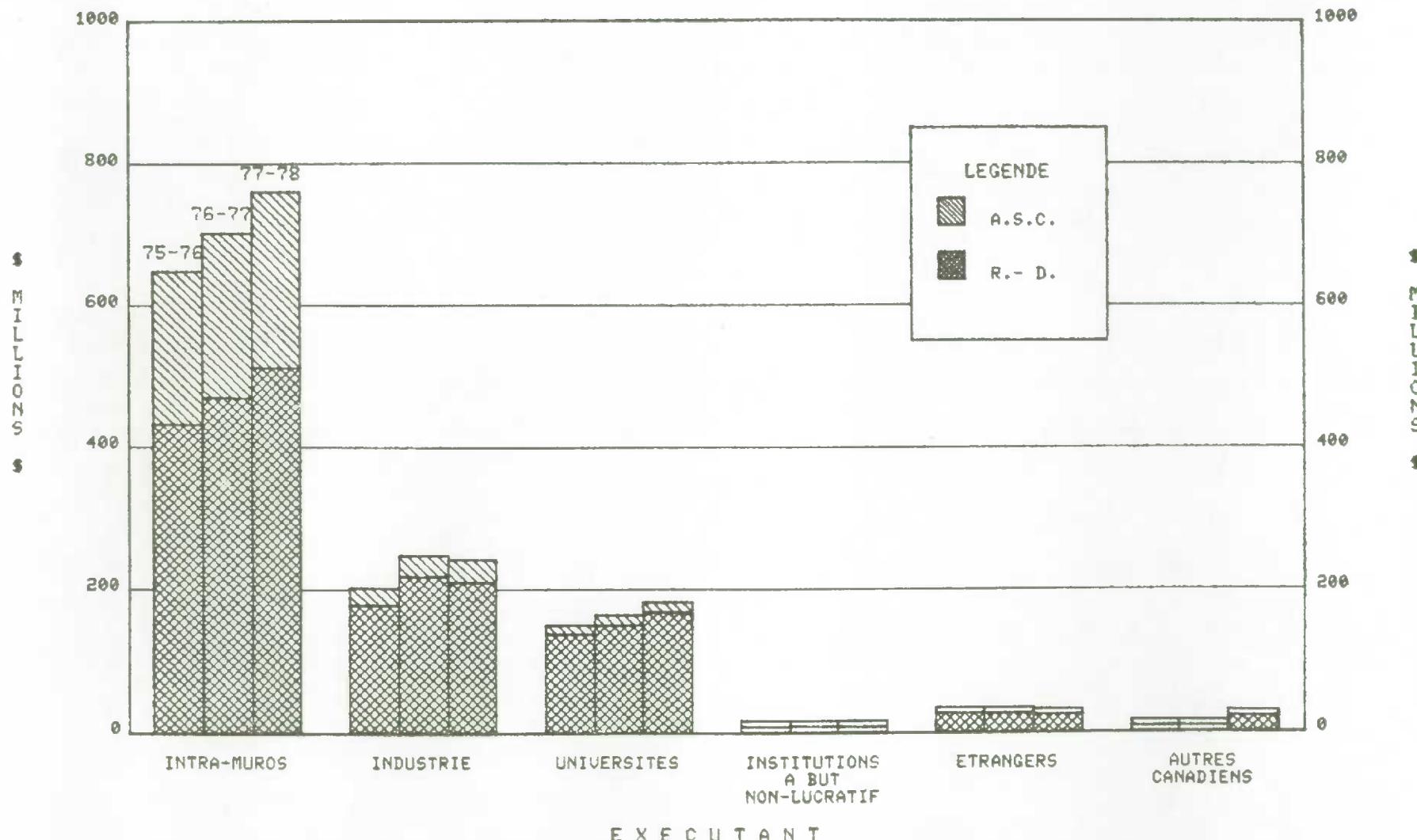
(\$ MILLIONS)

EXECUTANT	1975-76			1976-77			1977-78		
	R-D	ASC	TOTAL	R-D	ASC	TOTAL	R-D	ASC	TOTAL
INTRA-MUROS	433.9	214.6	648.4	470.4	233.5	703.9	513.4	248.0	761.4
INDUSTRIE	178.2	24.4	202.6	219.7	29.4	249.1	210.5	32.9	243.4
UNIVERSITES	139.6	12.0	151.6	151.6	12.7	164.2	169.6	13.9	183.4
INSTITUTIONS A BUT NON-LUC.	4.7	1.3	6.0	8.9	1.4	10.3	6.2	1.6	7.8
ETRANGERS	27.4	2.0	29.4	26.0	2.1	28.1	25.2	2.1	27.3
AUTRES CANADIENS	6.9	3.4	10.3	9.5	2.7	12.2	22.2	2.0	24.1
TOTAL	790.7	257.6	1,048.3	886.1	281.7	1,167.8	947.1	300.4	1,247.5

*** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRE QUE LES PROGRAMMES

HISTOGRAMME 18
SCIENCES NATURELLES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES
PAR EXECUTANT, PAR ACTIVITE, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 19

SCIENCES NATURELLES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES

PAR MINISTÈRE OU ORGANISME, PAR ACTIVITE, EN 1975-1978

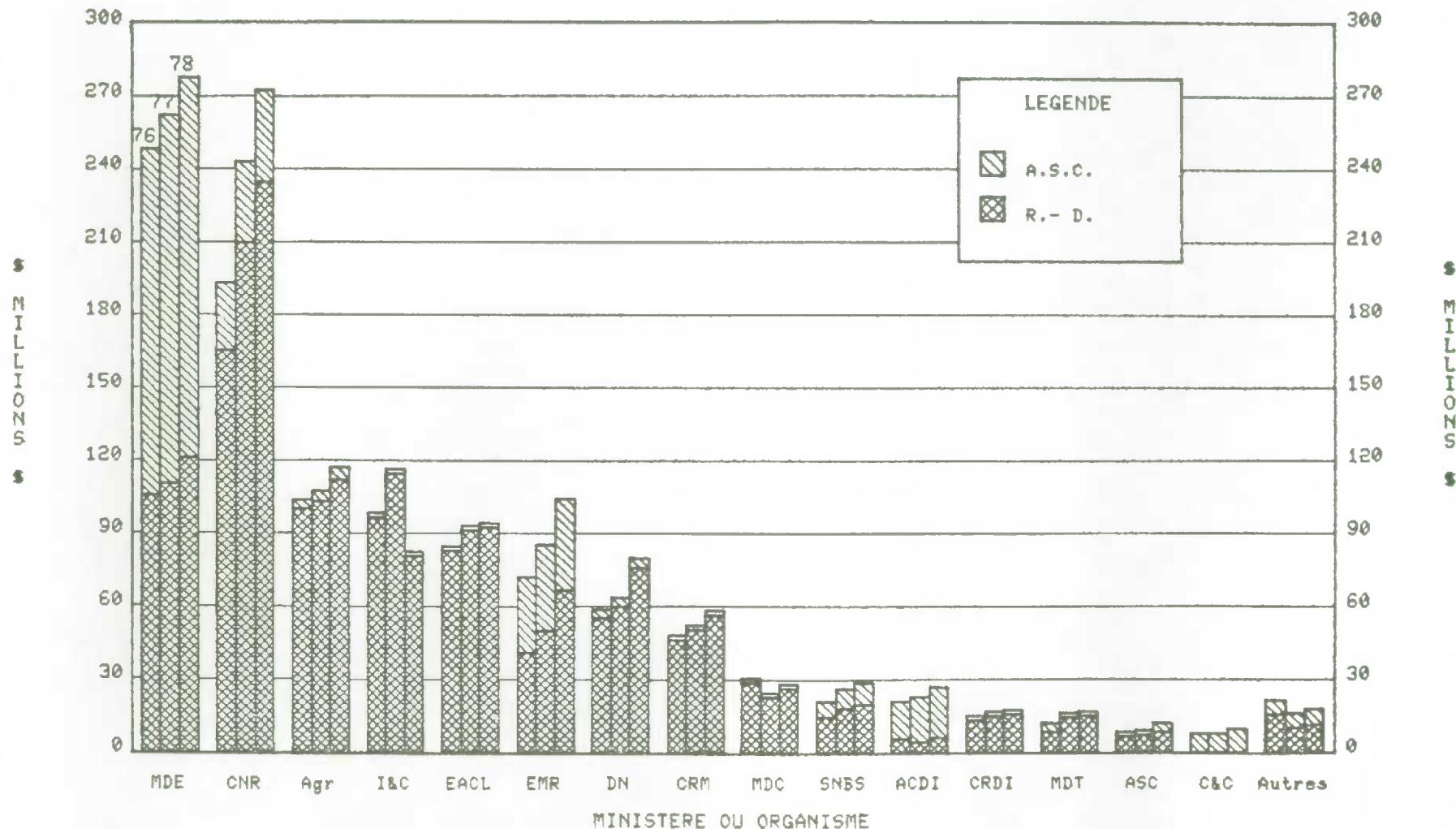
(\$ MILLIONS)

MINISTÈRE OU ORGANISME	1975-76			1976-77			1977-78		
	R-D	ASC	TOTAL	R-D	ASC	TOTAL	R-D	ASC	TOTAL
MDE	105.7	143.0	248.6	110.9	151.7	262.6	121.4	156.5	277.9
CNR	166.0	27.6	193.6	210.2	32.9	243.1	234.7	38.0	272.7
Agr	100.4	3.9	104.3	103.4	4.5	107.9	112.5	4.6	117.1
I&C	96.7	0.8	97.5	114.8	1.1	115.9	80.8	1.2	82.0
EACL	83.3	2.6	86.0	91.3	2.7	94.0	92.9	2.9	95.8
EMR	41.2	31.4	72.6	50.4	35.0	85.4	66.9	37.7	104.7
DN	55.5	3.7	59.2	60.3	3.7	64.0	76.1	4.1	80.2
CRM	46.8	1.7	48.4	50.6	1.4	52.1	56.4	1.6	58.1
MDC	29.0	0.5	29.5	22.8	0.5	23.3	26.9	0.5	27.4
SNBS	14.6	6.5	21.1	18.5	8.1	26.5	19.9	8.9	28.9
ACDI	5.8	15.3	21.1	4.5	18.6	23.1	6.5	20.5	27.1
CRDI	13.6	1.9	15.5	15.3	2.0	17.3	15.7	2.1	17.8
MDT	9.0	3.1	12.1	14.9	1.9	16.8	15.5	1.9	17.4
ASC	7.1	2.2	9.3	7.7	2.9	10.6	8.9	3.3	12.2
C&C	---	7.9	7.9	---	8.4	8.4	---	9.8	9.8
MN	1.2	1.9	3.1	1.4	2.1	3.5	1.6	2.2	3.9
CCEA	9.0	---	9.0	0.6	---	0.6	0.6	---	0.6
SCHL	0.8	0.8	1.6	2.6	0.7	3.4	3.9	0.8	4.8
MTP	1.3	1.4	2.7	1.9	1.7	3.6	1.7	1.5	3.3
AIN	2.5	0.2	2.7	2.2	0.3	2.5	2.2	0.6	2.8
ONE	---	1.1	1.1	---	1.2	1.2	---	1.2	1.2
EER	0.2	---	0.2	1.0	---	1.0	1.0	---	1.0
ONF	0.3	0.1	0.4	0.3	0.2	0.5	0.4	0.1	0.5
R-C	0.3	---	0.3	0.3	---	0.3	0.4	---	0.4
AAC	0.4	---	0.4	---	---	---	---	---	---
Autres	0.1	---	0.1	0.1	---	0.1	0.1	---	0.1
TOTAL	790.7	257.6	1,048.3	886.1	281.7	1,167.8	947.1	300.4	1,247.5

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

HISTOGRAMME 19
SCIENCES NATURELLES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES
PAR MINISTERE OU ORGANISME, PAR ACTIVITE, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 20

SCIENCES NATURELLES

DEPENSES FEDERALES INTRA-MUROS ET EXTRA-MUROS EN ACTIVITES SCIENTIFIQUES

PAR MINISTÈRE OU ORGANISME, EN 1975-1978

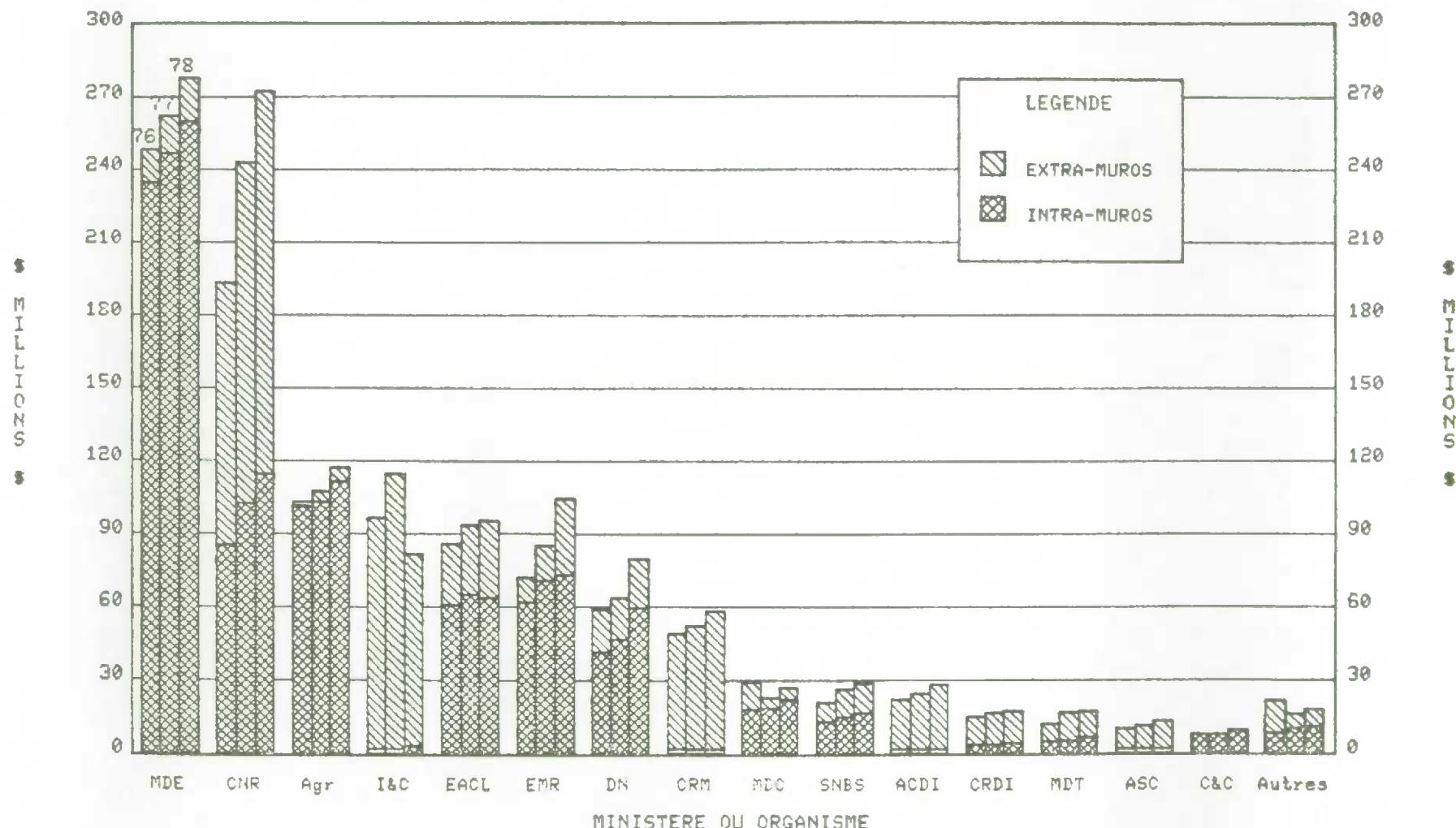
(\$ MILLIONS)

MINISTÈRE OU ORGANISME	1975-76			1976-77			1977-78		
	INTRA- MUROS	EXTRA- MUROS	TOTAL	INTRA- MUROS	EXTRA- MUROS	TOTAL	INTRA- MUROS	EXTRA- MUROS	TOTAL
MDE	234.9	13.7	248.6	246.8	15.8	262.6	260.1	17.8	277.9
CNR	85.3	108.2	193.6	103.0	140.1	243.1	115.1	157.6	272.7
Agr	102.0	2.3	104.3	103.3	4.5	107.9	111.7	5.4	117.1
I&C	2.7	94.8	97.5	3.0	113.0	115.9	3.2	78.8	82.0
EACL	60.7	25.3	86.0	65.1	28.9	94.0	64.0	31.8	95.8
EMR	62.1	10.5	72.6	70.9	14.5	85.4	73.2	31.4	104.7
DN	41.9	17.3	59.2	46.9	17.0	64.0	59.5	20.7	80.2
CRM	1.0	47.4	48.4	1.2	50.8	52.1	1.3	56.7	58.1
MDC	18.4	11.1	29.5	18.7	4.7	23.3	22.5	4.9	27.4
SNBS	13.4	7.7	21.1	15.5	11.1	26.5	17.0	11.9	28.9
ACDI	0.3	20.8	21.1	0.3	22.8	23.1	0.4	26.6	27.1
CRDI	3.6	11.9	15.5	4.1	13.2	17.3	4.7	13.1	17.8
MDT	4.9	7.2	12.1	5.7	11.1	16.8	6.7	10.7	17.4
ASC	0.6	8.8	9.3	0.6	10.0	10.6	0.8	11.4	12.2
C&C	7.9	---	7.9	8.4	---	8.4	9.8	---	9.8
MN	2.6	0.5	3.1	3.0	0.5	3.5	3.3	0.6	3.9
CCEA	---	9.0	9.0	---	0.6	0.6	0.1	0.5	0.6
SCHL	0.9	0.7	1.6	1.6	1.8	3.4	1.7	3.0	4.8
MTP	2.1	0.6	2.7	2.7	0.8	3.6	2.5	0.7	3.3
AIN	0.8	1.8	2.7	0.9	1.6	2.5	1.3	1.5	2.8
ONE	1.1	---	1.1	1.2	---	1.2	1.2	---	1.2
EER	---	0.2	0.2	---	1.0	1.0	---	1.0	1.0
ONF	0.4	---	0.4	0.5	---	0.5	0.5	---	0.5
R-C	0.3	---	0.3	0.3	---	0.3	0.4	---	0.4
AAC	0.4	---	0.4	---	---	---	---	---	---
Autres	0.1	---	0.1	0.1	---	0.1	0.1	---	0.1
TOTAL	648.4	399.8	1.048.3	703.9	463.9	1.167.8	761.4	486.1	1.247.5

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

HISTOGRAMME 20
SCIENCES NATURELLES

DEPENSES FEDERALES INTRA-MUROS ET EXTRA-MUROS EN ACTIVITES SCIENTIFIQUES
PAR MINISTERE OU ORGANISME, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 21
 SCIENCES NATURELLES
 DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES
 PAR EXECUTANT, PAR ORIGINE DES FONDS, EN 1975-1978
 (\$ MILLIONS)

EXECUTANT	MINISTERE OU ORGANISME	1975-76		1976-77		1977-78	
		\$	%	\$	%	\$	%
INTRA-MUROS *****	MDE	234.9	(36.2)	246.8	(35.1)	260.1	(34.2)
	Agr	102.0	(15.7)	103.3	(14.7)	111.7	(14.7)
	CNR	85.3	(13.2)	103.0	(14.6)	115.1	(15.1)
	EMR	62.1	(9.6)	70.9	(10.1)	73.2	(9.6)
	EACL	60.7	(9.4)	65.1	(9.2)	64.0	(8.4)
	DN	41.9	(6.5)	46.9	(6.7)	59.5	(7.8)
	MDC	18.4	(2.8)	18.7	(2.7)	22.5	(3.0)
	SNBS	13.4	(2.1)	15.5	(2.2)	17.0	(2.2)
	Autres	29.8	(4.6)	33.7	(4.8)	38.2	(5.0)
TOTAL		648.4	(100.0)	703.9	(100.0)	761.4	(100.0)
EXTRA-MUROS *****	I&C	92.2	(45.5)	106.5	(42.8)	75.4	(31.0)
	CNR	23.1	(11.4)	42.0	(16.9)	50.3	(20.7)
	INDUSTRIE	24.2	(12.0)	28.2	(11.3)	30.8	(12.7)
	ACDI	14.0	(6.9)	17.4	(7.0)	19.1	(7.9)
	DN	13.1	(6.4)	14.2	(5.7)	17.0	(7.0)
	EMR	7.0	(3.5)	10.1	(4.0)	15.4	(6.3)
	ASC	7.3	(3.6)	8.5	(3.4)	9.7	(4.0)
	MDE	6.9	(3.4)	7.5	(3.0)	9.4	(3.9)
	Autres	14.8	(7.3)	14.8	(5.9)	16.2	(6.6)
TOTAL		202.6	(100.0)	249.1	(100.0)	243.4	(100.0)
UNIVERSITES	CNR	75.6	(49.9)	89.8	(54.6)	101.5	(55.3)
	CRM	45.0	(29.7)	48.6	(29.6)	54.2	(29.5)
	SNBS	6.1	(4.1)	9.4	(5.7)	9.8	(5.3)
	MDE	3.9	(2.6)	4.3	(2.6)	4.4	(2.4)
	CCEA	8.9	(5.9)	0.5	(0.3)	0.3	(0.2)
	Agr	1.7	(1.1)	3.1	(1.9)	3.4	(1.9)
	DN	2.8	(1.8)	1.2	(0.8)	1.4	(0.8)
	EMR	1.4	(0.9)	1.3	(0.8)	2.0	(1.1)
	Autres	6.3	(4.1)	6.1	(3.7)	6.5	(3.5)
TOTAL		151.6	(100.0)	164.2	(100.0)	183.4	(100.0)

INSTITUTIONS A BUT NON-LUCRATIF	I&C	1.2	(19.3)	4.9	(48.1)	1.8	(23.2)
	SNBS	1.1	(19.2)	1.4	(13.9)	1.8	(23.4)
	CNR	1.5	(25.0)	1.3	(12.5)	1.3	(17.3)
	MDE	1.0	(16.4)	1.4	(13.8)	1.4	(18.5)
	AIN	0.5	(8.4)	0.4	(3.8)	0.3	(3.9)
	EMR	0.5	(8.9)	0.3	(3.2)	0.3	(4.2)
	ASC	---	(---)	0.3	(3.0)	0.4	(4.6)
	DN	0.1	(1.2)	0.1	(1.0)	0.2	(2.2)
	Autres	0.1	(1.6)	0.1	(0.7)	0.2	(2.7)
	TOTAL	6.0	(100.0)	10.3	(100.0)	7.8	(100.0)

ETRANGERS	CRDI	11.3	(38.5)	12.6	(44.7)	12.4	(45.2)
	CNR	7.5	(25.4)	6.5	(23.0)	3.6	(13.3)
	ACDI	5.7	(19.5)	4.5	(15.9)	6.4	(23.6)
	CRM	2.4	(8.0)	2.2	(7.8)	2.5	(9.0)
	DN	1.4	(4.8)	1.5	(5.4)	2.1	(7.5)
	MDC	0.8	(2.5)	---	(---)	---	(---)
	MDE	0.2	(0.6)	0.2	(0.8)	0.2	(0.8)
	MDT	---	(- -)	0.5	(1.8)	---	(- -)
	Autres	0.1	(0.5)	0.2	(0.8)	0.1	(0.5)
	TOTAL	29.4	(100.0)	28.1	(100.0)	27.3	(100.0)

AUTRES CANADIENS	EMR	1.6	(15.3)	2.7	(22.4)	13.7	(56.9)
	MDE	1.8	(17.1)	2.3	(19.1)	2.4	(9.8)
	MDT	2.1	(20.3)	1.6	(13.0)	1.6	(6.7)
	MDC	0.9	(8.5)	1.0	(8.2)	1.2	(5.0)
	I&C	1.0	(9.6)	0.9	(7.4)	0.9	(3.9)
	SCHL	0.4	(4.3)	0.9	(7.7)	1.1	(4.5)
	Agr	0.4	(3.8)	0.8	(6.3)	1.1	(4.8)
	CNR	0.5	(5.2)	0.7	(5.6)	0.7	(3.0)
	Autres	1.6	(15.8)	1.2	(10.3)	1.3	(5.6)
	TOTAL	10.3	(100.0)	12.2	(100.0)	24.1	(100.0)

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 22

SCIENCES NATURELLES

DEPENSES FEDERALES EN RECHERCHE-DEVELOPPEMENT
PAR EXECUTANT, EN 1975-1978

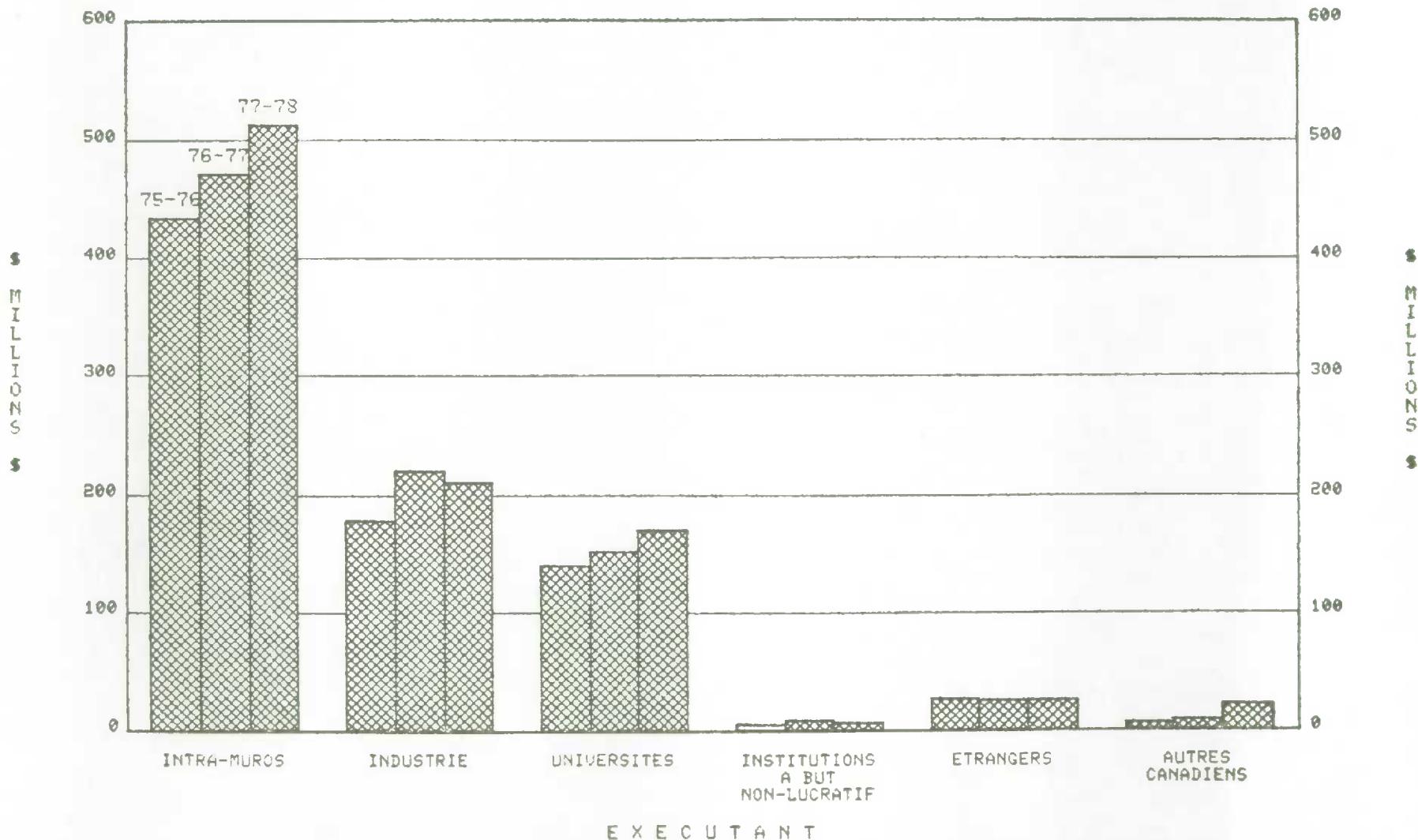
(\$ MILLIONS)

EXECUTANT	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
INTRA-MUROS	433.9	(54.9)	470.4	(53.1)	513.4	(54.2)
INDUSTRIE	178.2	(22.5)	219.7	(24.8)	210.5	(22.2)
UNIVERSITES	139.6	(17.7)	151.6	(17.1)	169.6	(17.9)
INSTITUTIONS A BUT NON-LUC.	4.7	(0.6)	8.9	(1.0)	6.2	(0.7)
ETRANGERS	27.4	(3.5)	26.0	(2.9)	25.2	(2.7)
AUTRES CANADIENS	6.9	(0.9)	9.5	(1.1)	22.2	(2.3)
TOTAL	790.7	(100.0)	886.1	(100.0)	947.1	(100.0)

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRE QUE LES PROGRAMMES

HISTOGRAMME 22
SCIENCES NATURELLES

DEPENSES FEDERALES EN RECHERCHE-DEVELOPPEMENT
PAR EXECUTANT, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 23

SCIENCES NATURELLES

DEPENSES FEDERALES EN RECHERCHE-DEVELOPPEMENT
PAR TYPE DE FINANCEMENT, EN 1975-1978

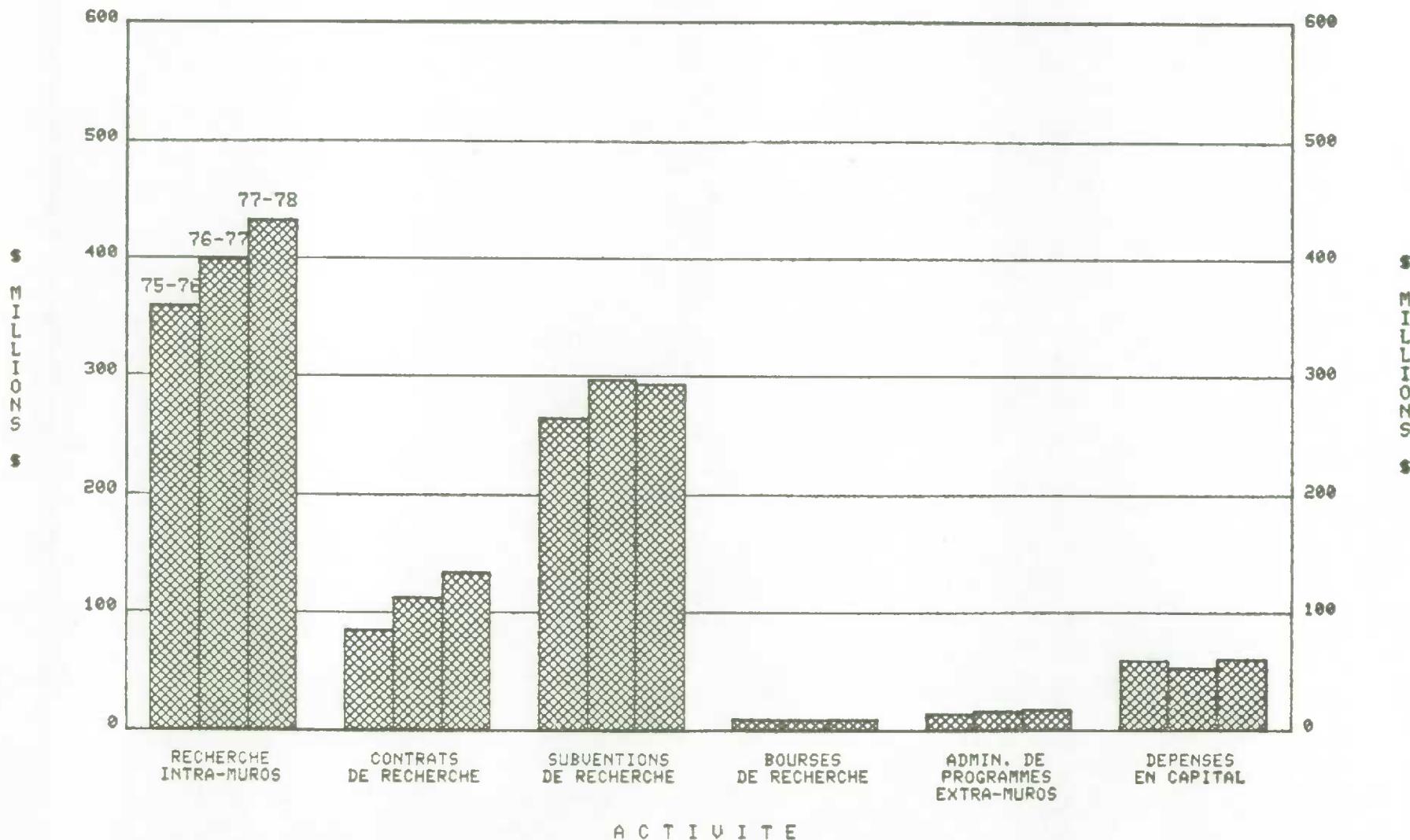
(\$ MILLIONS)

TYPE DE FINANCE.	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
DEPENSES COURANTES	731.6	(92.5)	832.7	(94.0)	886.4	(93.6)
RECHERCHES INTRA-MUROS	359.7	(45.5)	398.9	(45.0)	433.1	(45.7)
CONTRATS DE RECHERCHE	84.2	(10.6)	112.1	(12.6)	133.5	(14.1)
SUBVENTIONS DE RECHERCHE	265.0	(33.5)	296.5	(33.5)	293.1	(30.9)
BOURSES DE RECHERCHE	9.4	(1.2)	8.9	(1.0)	9.0	(1.0)
ADMIN. DE PROG. EXTRA-MUROS	13.3	(1.7)	16.4	(1.8)	17.7	(1.9)
DEPENSES EN CAPITAL	59.1	(7.5)	53.3	(6.0)	60.6	(6.4)
TOTAL	790.7	(100.0)	886.1	(100.0)	947.1	(100.0)

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRE QUE LES PROGRAMMES

HISTOGRAMME 23
SCIENCES NATURELLES

DEPENSES FEDERALES EN RECHERCHE-DEVELOPPEMENT
PAR TYPE DE FINANCEMENT, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 24

SCIENCES NATURELLES

DEPENSES FEDERALES INTRA-MUROS ET EXTRA-MUROS EN RECHERCHE-DEVELOPPEMENT

PAR MINISTÈRE OU ORGANISME, EN 1975-1978

(\$ MILLIONS)

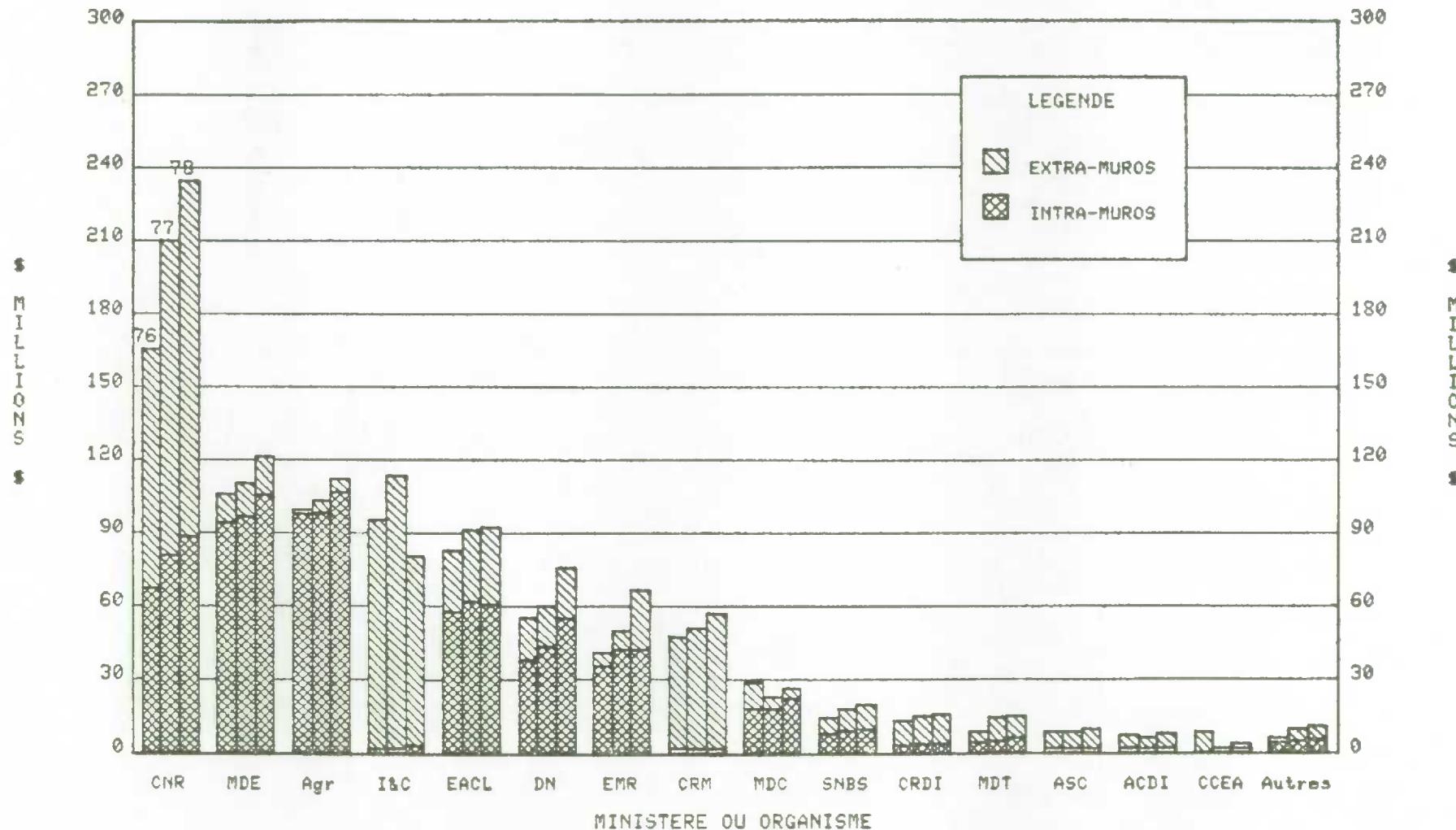
MINISTÈRE OU ORGANISME	1975-76			1976-77			1977-78		
	INTRA- MUROS	EXTRA- MUROS	TOTAL	INTRA- MUROS	EXTRA- MUROS	TOTAL	INTRA- MUROS	EXTRA- MUROS	TOTAL
CNR	67.3	98.7	166.0	80.5	129.7	210.2	88.6	146.1	234.7
MDE	94.3	11.4	105.7	97.1	13.7	110.9	105.7	15.7	121.4
Agr	98.1	2.3	100.4	98.9	4.5	103.4	107.1	5.4	112.5
I&C	2.7	94.0	96.7	3.0	111.9	114.8	3.2	77.6	80.8
EACL	58.1	25.3	83.3	62.4	28.9	91.3	61.1	31.8	92.9
DN	38.2	17.3	55.5	43.2	17.0	60.3	55.4	20.7	76.1
EMR	35.8	5.4	41.2	42.0	8.4	50.4	42.0	24.9	66.9
CRM	0.9	45.9	46.8	1.1	49.5	50.6	1.2	55.2	56.4
MDC	18.2	10.8	29.0	18.5	4.4	22.8	22.3	4.6	26.9
SNBS	8.1	6.5	14.6	9.2	9.3	18.5	10.1	9.9	19.9
CRDI	3.2	10.4	13.6	3.6	11.7	15.3	4.2	11.5	15.7
MDT	4.3	4.6	9.0	5.3	9.6	14.9	6.2	9.3	15.5
ASC	0.5	6.6	7.1	0.5	7.2	7.7	0.7	8.2	8.9
ACDI	0.1	5.7	5.8	0.1	4.5	4.5	0.1	6.4	6.5
OCEA	---	9.0	9.0	---	0.6	0.6	0.1	0.5	0.6
Schl	0.4	0.5	0.8	1.0	1.6	2.6	1.0	2.9	3.9
AIN	0.6	1.8	2.5	0.6	1.6	2.2	0.7	1.5	2.2
MTP	1.1	0.2	1.3	1.4	0.5	1.9	1.3	0.4	1.7
MN	1.1	0.1	1.2	1.4	0.1	1.4	1.5	0.1	1.6
EER	---	0.2	0.2	---	1.0	1.0	---	1.0	1.0
R-C	0.3	---	0.3	0.3	---	0.3	0.4	---	0.4
ONF	0.3	---	0.3	0.3	---	0.3	0.3	---	0.4
AAC	0.4	---	0.4	---	---	---	---	---	---
ACL	0.1	---	0.1	0.1	---	0.1	0.1	---	0.1
Autres	---	---	---	---	---	---	---	---	---
TOTAL	433.9	356.8	790.7	470.4	415.6	886.1	513.4	433.7	947.1

*** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

HISTOGRAMME 24

SCIENCES NATURELLES

DEPENSES FEDERALES INTRA-MUROS ET EXTRA-MUROS EN RECHERCHE-DEVELOPPEMENT
PAR MINISTERE OU ORGANISME, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 25
SCIENCES NATURELLES

DEPENSES FEDERALES EN RECHERCHE-DEVELOPPEMENT
PAR EXECUTANT, PAR ORIGINE DES FONDS, EN 1975-1978
(\$ MILLIONS)

EXECUTANT	MINISTÈRE OU ORGANISME	1975-76		1976-77		1977-78	
		\$	%	\$	%	\$	%
INTRA-MUROS	Agr	98.1	(22.6)	98.9	(21.0)	107.1	(20.9)
*****	MDE	94.3	(21.7)	97.1	(20.6)	105.7	(20.6)
	CNR	67.3	(15.5)	80.5	(17.1)	88.6	(17.3)
	EACL	58.1	(13.4)	62.4	(13.3)	61.1	(11.9)
	DN	38.2	(8.8)	43.2	(9.2)	55.4	(10.8)
	EMR	35.8	(8.2)	42.0	(8.9)	42.0	(8.2)
	MDC	18.2	(4.2)	18.5	(3.9)	22.3	(4.3)
	SNBS	8.1	(1.9)	9.2	(2.0)	10.1	(2.0)
	Autres	15.9	(3.7)	18.7	(4.0)	21.1	(4.1)
	TOTAL	433.9	(100.0)	470.4	(100.0)	513.4	(100.0)
EXTRA-MUROS	I&C	91.9	(51.6)	106.3	(48.4)	75.2	(35.7)
*****	CNR	23.1	(13.0)	41.7	(19.0)	49.8	(23.6)
INDUSTRIE	EACL	24.2	(13.6)	28.2	(12.8)	30.8	(14.6)
	DN	13.1	(7.3)	14.2	(6.5)	17.0	(8.1)
	MDE	5.2	(2.9)	6.1	(2.8)	8.0	(3.8)
	ASC	5.4	(3.0)	6.0	(2.7)	6.8	(3.2)
	MDT	3.0	(1.7)	7.0	(3.2)	6.3	(3.0)
	EMR	2.3	(1.3)	4.3	(1.9)	9.2	(4.4)
	Autres	10.0	(5.6)	6.0	(2.7)	7.4	(3.5)
	TOTAL	178.2	(100.0)	219.7	(100.0)	210.5	(100.0)
UNIVERSITES	CNR	67.8	(48.6)	81.3	(53.6)	92.5	(54.5)
	CRM	43.5	(31.1)	47.3	(31.2)	52.8	(31.1)
	SNBS	5.3	(3.8)	8.1	(5.3)	8.3	(4.9)
	MDE	3.8	(2.8)	4.2	(2.8)	4.3	(2.5)
	CCEA	8.9	(6.4)	0.5	(0.3)	0.3	(0.2)
	Agr	1.7	(1.2)	3.1	(2.0)	3.4	(2.0)
	DN	2.8	(2.0)	1.2	(0.8)	1.4	(0.8)
	EMR	1.3	(0.9)	1.2	(0.8)	1.8	(1.1)
	Autres	4.5	(3.3)	4.6	(3.0)	4.8	(2.8)
	TOTAL	139.6	(100.0)	151.6	(100.0)	169.6	(100.0)

INSTITUTIONS A BUT NON-LUCRATIF	I&C	0.9	(20.1)	4.6	(52.3)	1.5	(23.7)
	MDE	1.0	(20.5)	1.4	(15.9)	1.4	(23.1)
	SNBS	0.9	(19.7)	1.1	(12.8)	1.4	(23.2)
	CNR	0.8	(18.1)	0.7	(8.2)	0.8	(12.3)
	AIN	0.5	(10.7)	0.4	(4.4)	0.3	(4.9)
	EMR	0.4	(9.0)	0.2	(2.7)	0.2	(3.8)
	ASC	---	(---)	0.2	(2.6)	0.3	(4.2)
	DN	0.1	(1.5)	0.1	(1.1)	0.2	(2.7)
	Autres	--	(--)	--	(---)	0.1	(2.1)
	TOTAL	4.7	(100.0)	8.9	(100.0)	6.2	(100.0)

ETRANGERS	CRDI	9.9	(36.1)	11.0	(42.4)	10.9	(43.1)
	ACDI	5.7	(21.0)	4.5	(17.1)	6.4	(25.5)
	CNR	6.9	(25.3)	5.9	(22.7)	3.1	(12.2)
	CRM	2.3	(8.5)	2.2	(8.4)	2.4	(9.6)
	DN	1.4	(5.1)	1.5	(5.8)	2.1	(8.2)
	MDC	0.8	(2.7)	---	(---)	---	(---)
	MDE	0.2	(0.6)	0.2	(0.8)	0.2	(0.9)
	MDT	--	(--)	0.5	(1.9)	--	(--)
	Autres	0.1	(0.4)	0.2	(0.8)	0.1	(0.4)
	TOTAL	27.4	(100.0)	26.0	(100.0)	25.2	(100.0)

AUTRES CANADIENS	EMR	1.4	(20.9)	2.6	(27.3)	13.6	(61.2)
	MDE	1.1	(16.5)	1.7	(18.0)	1.7	(7.9)
	MDC	0.9	(12.7)	1.0	(10.5)	1.2	(5.4)
	MDT	0.5	(7.1)	0.7	(6.9)	1.5	(7.0)
	Agr	0.4	(5.7)	0.8	(8.1)	1.1	(5.2)
	I&C	0.8	(12.1)	0.7	(7.4)	0.7	(3.3)
	SCHL	0.2	(3.3)	0.9	(9.9)	1.1	(4.8)
	AIN	0.4	(6.3)	0.4	(4.4)	0.4	(1.8)
	Autres	1.0	(15.2)	0.7	(7.4)	0.8	(3.5)
	TOTAL	6.9	(100.0)	9.5	(100.0)	22.2	(100.0)

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 26

SCIENCES NATURELLES

AIDE FEDERALE A LA RECHERCHE-DEVELOPPEMENT
 DANS LES UNIVERSITES ET LES INSTITUTIONS A BUT NON-LUCRATIF
 PAR MINISTERE OU ORGANISME, EN 1975-1978

(\$ MILLIONS)

MINISTÈRE OU ORGANISME	1975-76		1976-77		1977-78	
	SUBVENT.	CONTRATS	SUBVENT.	CONTRATS	SUBVENT.	CONTRATS
CNR	66.7	0.2	80.2	0.4	91.7	0.5
CRM	41.4	---	45.4	---	50.7	---
SNBS	6.2	--	9.1	--	9.6	--
MDE	2.5	2.3	3.5	2.1	3.5	2.2
CCEA	8.8	0.1	---	0.5	---	0.3
Agr	1.1	0.5	1.9	1.2	1.8	1.6
I&C	1.2	---	4.9	---	1.7	---
DN	2.4	0.5	0.6	0.7	0.6	1.0
EMR	1.4	0.3	1.2	0.3	1.3	0.8
MDT	0.3	0.7	0.3	1.0	0.4	0.9
ASC	---	0.9	---	1.1	---	1.2
AIN	0.2	0.8	0.2	0.7	0.2	0.6
MDC	---	0.7	---	0.6	---	0.6
EACL	---	0.6	---	0.4	---	0.6
CRDI	0.4	---	0.5	---	0.6	---
Autres	--	--	---	--	---	--
TOTAL	132.6	7.7	147.9	9.1	162.0	10.3

HISTOGRAMME 26
SCIENCES NATURELLES

AIDE FEDERALE A LA RECHERCHE-DEVELOPPEMENT
DANS LES UNIVERSITES ET LES INSTITUTIONS A BUT NON-LUCRATIF
PAR MINISTERE OU ORGANISME, EN 1975-1978

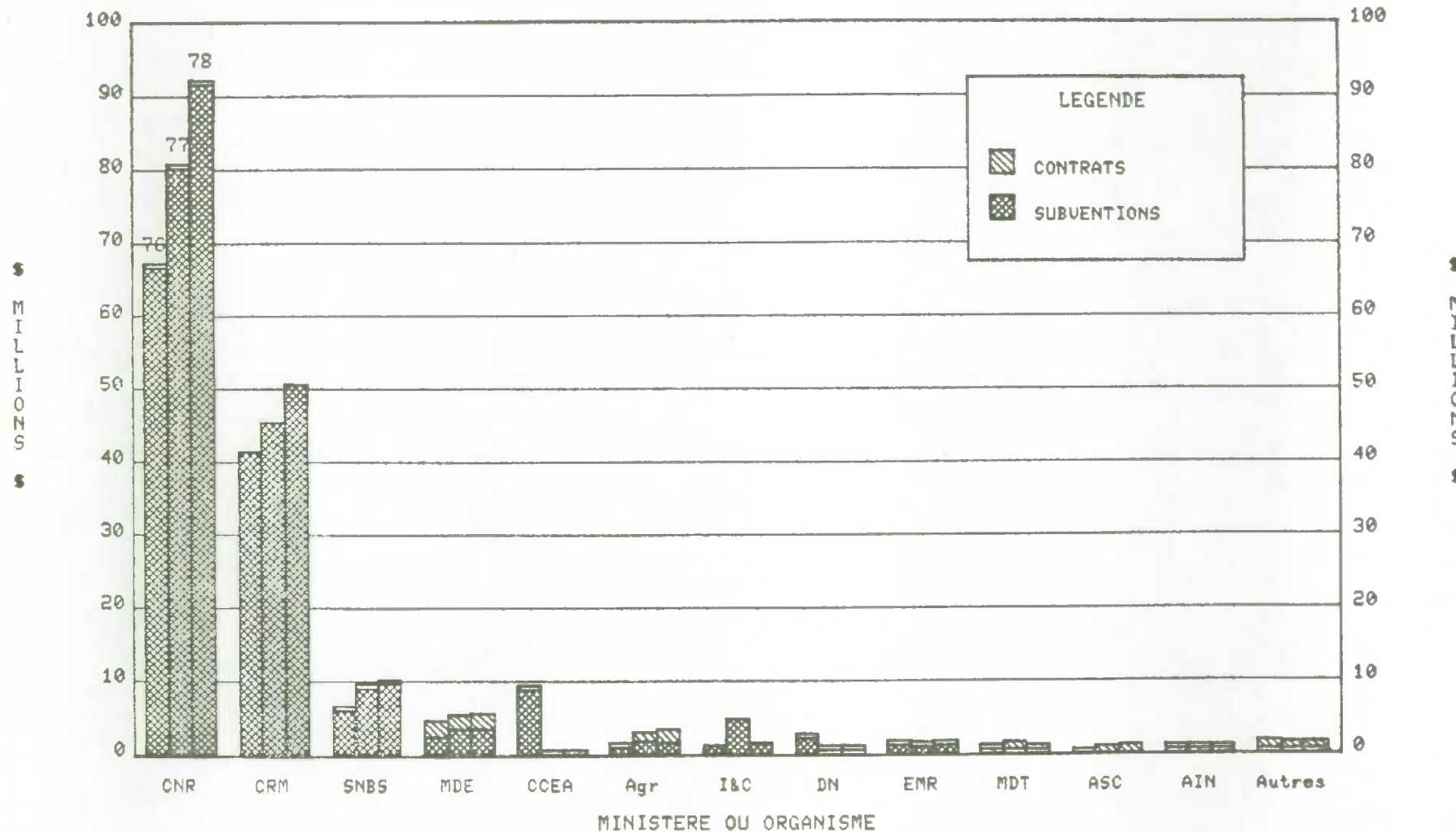


TABLEAU 27

SCIENCES NATURELLES

AIDE FEDERALE A LA RECHERCHE-DEVELOPPEMENT
DANS L'INDUSTRIE
PAR MINISTÈRE OU ORGANISME, EN 1975-1978

(\$ MILLIONS)

MINISTÈRE OU ORGANISME	1975-76		1976-77		1977-78	
	SUBVENT.	CONTRATS	SUBVENT.	CONTRATS	SUBVENT.	CONTRATS
I&C	91.9	---	106.3	---	75.2	---
CNR	14.1	8.2	15.2	25.6	16.6	32.1
EACL	---	24.2	---	28.2	---	30.8
DN	1.7	11.3	---	14.2	---	17.0
MDE	---	5.2	---	6.1	---	8.0
ASC	---	5.4	---	6.0	---	6.8
MDT	---	3.0	---	7.0	---	6.3
EMR	---	2.3	---	4.3	---	9.2
MDC	---	8.5	---	2.8	---	2.8
SCHL	--	0.2	0.7	---	1.8	---
EER	0.2	---	1.0	---	1.0	---
Agr	--	0.2	0.1	0.5	0.1	0.7
AIN	---	0.4	---	0.3	---	0.3
MTP	---	0.2	---	0.4	---	0.4
CCEA	---	0.1	---	0.2	---	0.2
Autres	0.1	--	0.1	---	0.1	--
TOTAL	108.0	69.4	123.3	95.4	94.8	114.7

HISTOGRAMME 27
SCIENCES NATURELLES

AIDE FEDERALE A LA RECHERCHE-DEVELOPPEMENT
DANS L'INDUSTRIE
PAR MINISTERE OU ORGANISME, EN 1975-1978

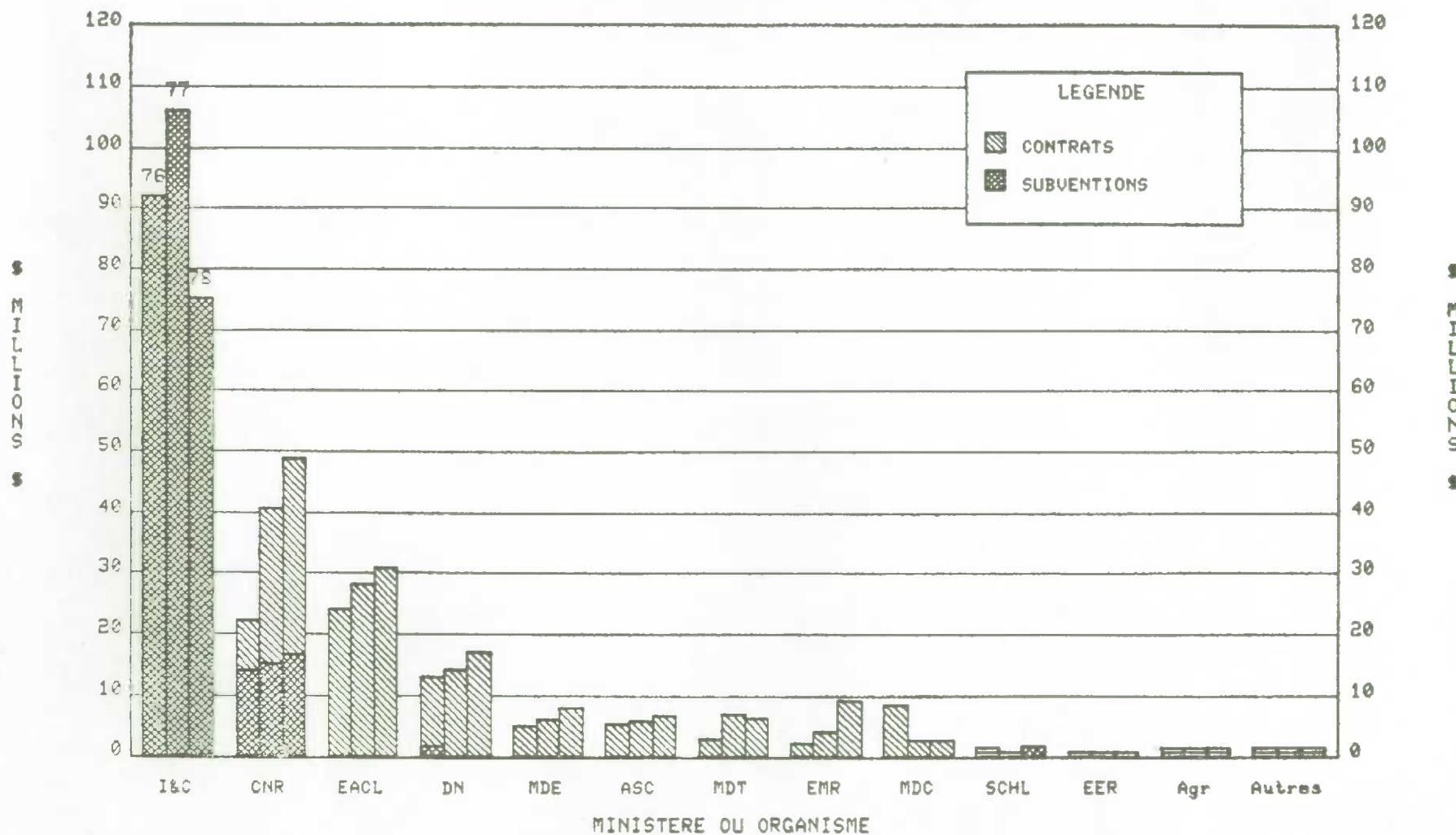


TABLEAU 28

SCIENCES NATURELLES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES CONNEXES

PAR EXECUTANT, EN 1975-1978

(\$ MILLIONS)

EXECUTANT	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
INTRA-MUROS	214.6	(83.3)	233.5	(82.9)	248.0	(82.6)
INDUSTRIE	24.4	(9.5)	29.4	(10.4)	32.9	(10.9)
UNIVERSITES	12.0	(4.7)	12.7	(4.5)	13.9	(4.6)
INSTITUTIONS A BUT NON-LUC.	1.3	(0.5)	1.4	(0.5)	1.6	(0.5)
ETRANGERS	2.0	(0.8)	2.1	(0.7)	2.1	(0.7)
AUTRES CANADIENS	3.4	(1.3)	2.7	(1.0)	2.0	(0.7)
TOTAL	257.6	(100.0)	281.7	(100.0)	300.4	(100.0)

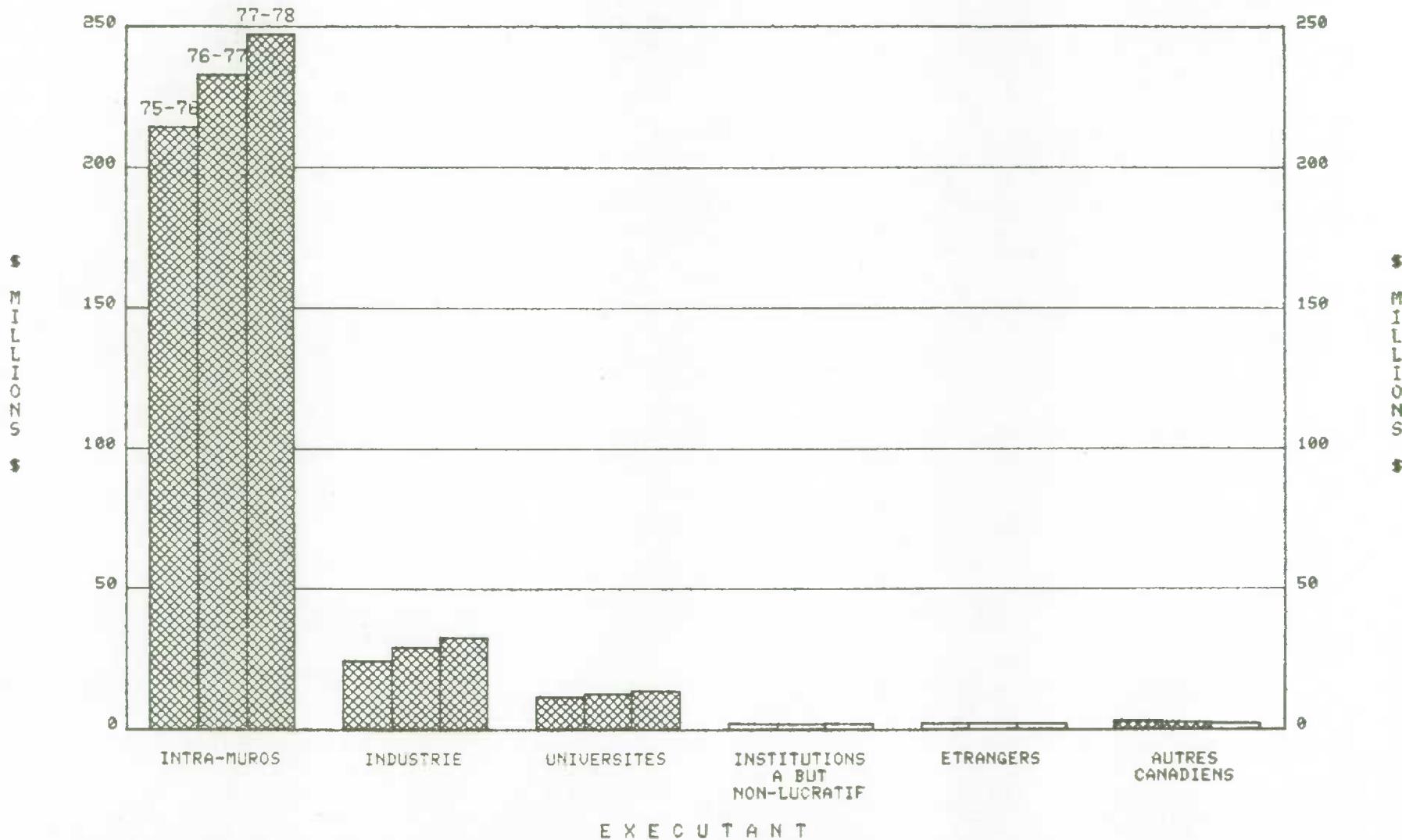
** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRE QUE LES PROGRAMMES

HISTOGRAMME 28

SCIENCES NATURELLES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES CONNEXES

PAR EXECUTANT, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 29

SCIENCES NATURELLES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES CONNEXES
PAR ACTIVITE, EN 1975-1978

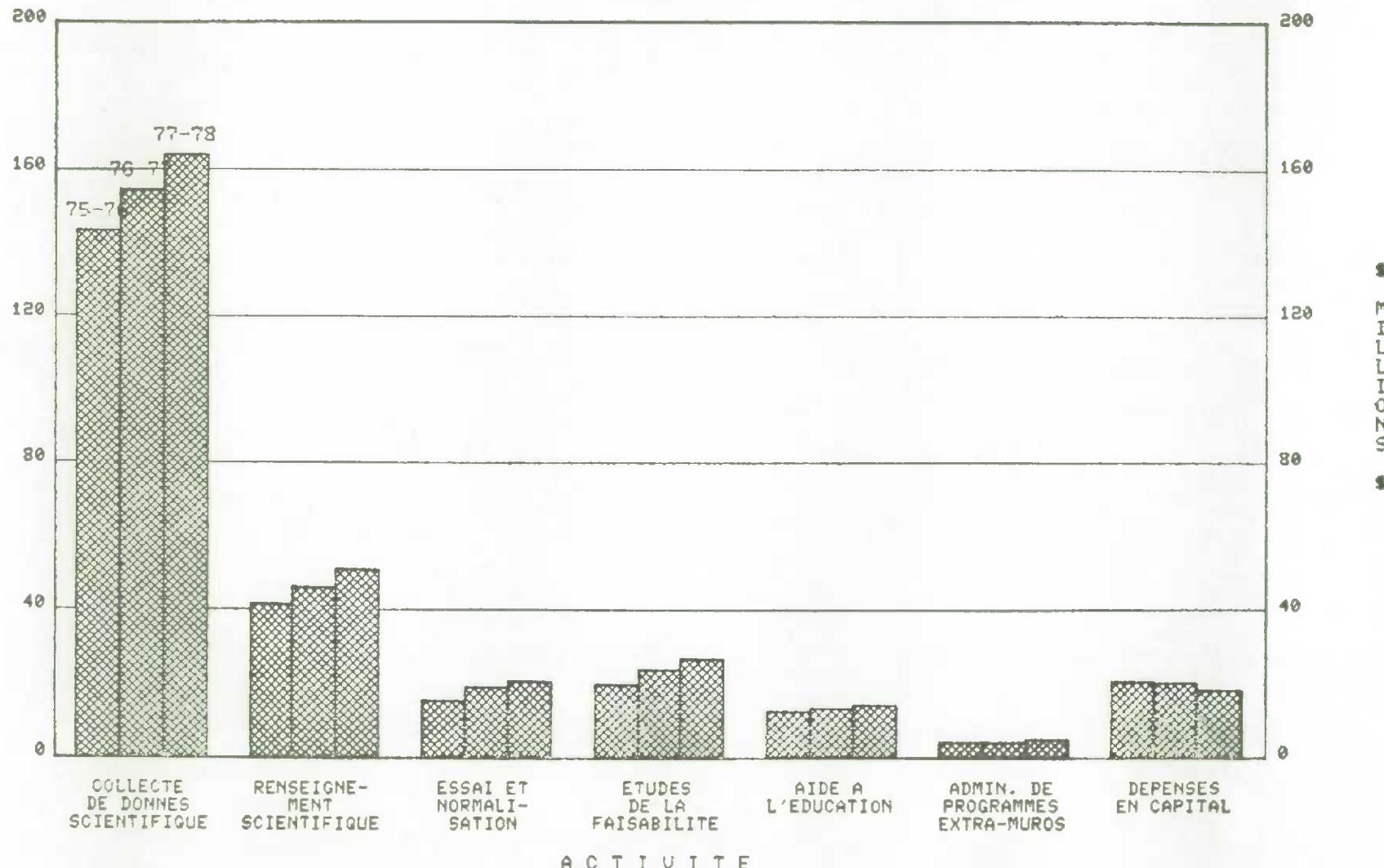
(\$ MILLIONS)

ACTIVITE	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
DEPENSES COURANTES	236.9	(92.0)	261.4	(92.8)	282.0	(93.9)
COL. DE DONNEES SCIENTIFIQUES	143.4	(55.7)	154.6	(54.9)	164.3	(54.7)
RENSEIGNEMENT SCIENTIFIQUES	41.5	(16.1)	46.3	(16.5)	50.9	(16.9)
ESSAI ET NORMALISATION	15.5	(6.0)	18.9	(6.7)	20.6	(6.9)
ETUDES DE FAISABILITE	19.9	(7.7)	23.9	(8.5)	26.7	(8.9)
AIDE A L'EDUCATION	12.5	(4.8)	13.3	(4.7)	14.3	(4.8)
ADMIN. DE PROG. EXTRA-MUROS	4.1	(1.6)	4.4	(1.6)	5.2	(1.7)
DEPENSES EN CAPITAL	20.7	(8.0)	20.3	(7.2)	18.4	(6.1)
TOTAL	257.6	(100.0)	281.7	(100.0)	300.4	(100.0)

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRE QUE LES PROGRAMMES

HISTOGRAMME 29
SCIENCES NATURELLES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES CONNEXES
PAR ACTIVITE, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 30

SCIENCES NATURELLES

DEPENSES FEDERALES INTRA-MUROS ET EXTRA-MUROS EN ACTIVITES SCIENTIFIQUES CONNEXES

PAR MINISTÈRE OU ORGANISME, EN 1975-1978

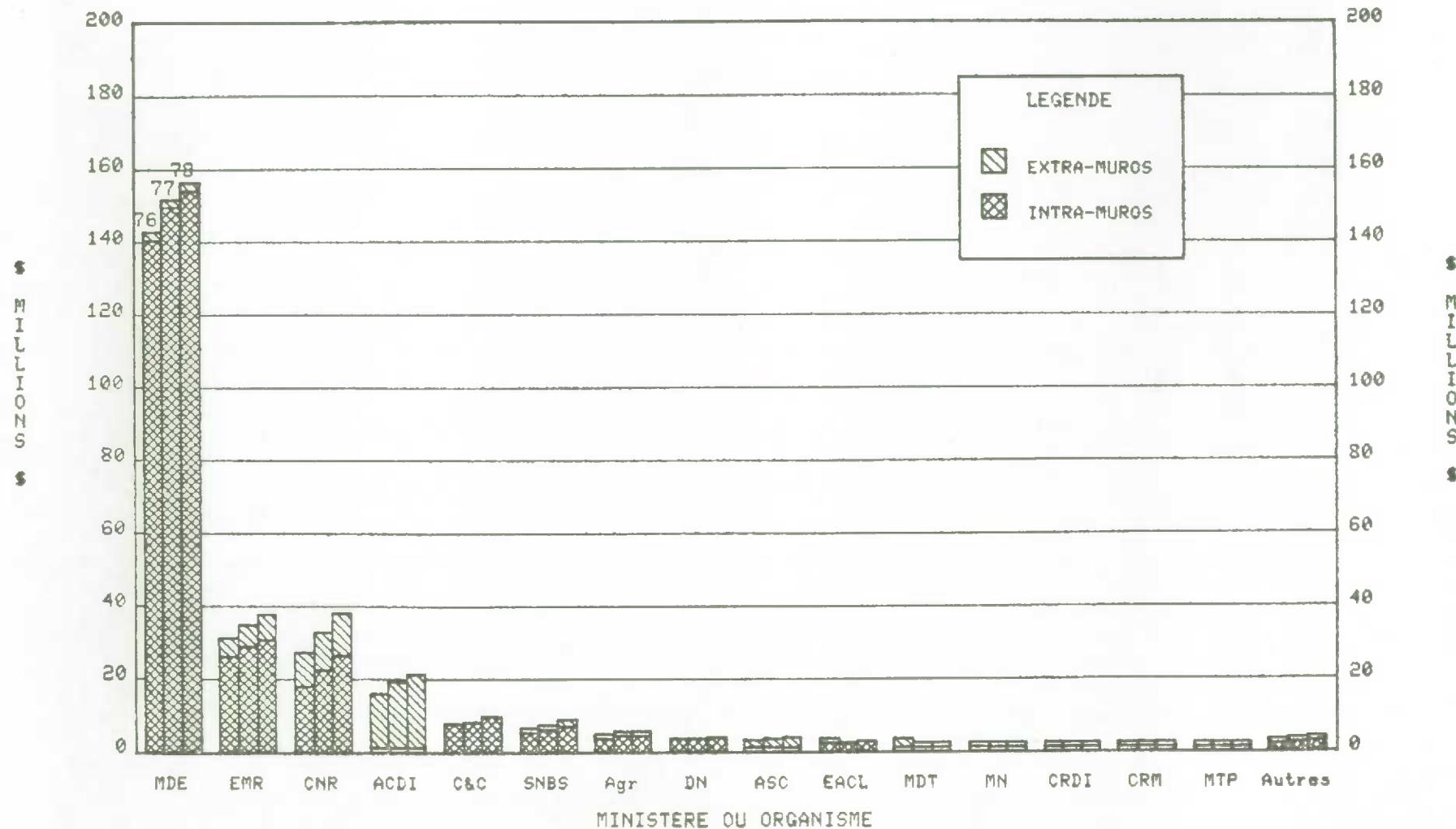
(\$ MILLIONS)

MINISTÈRE OU ORGANISME	1975-76			1976-77			1977-78		
	INTRA- MUROS	EXTRA- MUROS	TOTAL	INTRA- MUROS	EXTRA- MUROS	TOTAL	INTRA- MUROS	EXTRA- MUROS	TOTAL
MDE	140.6	2.4	143.0	149.7	2.1	151.7	154.4	2.1	156.5
EMR	26.3	5.1	31.4	28.9	6.1	35.0	31.2	6.6	37.7
CNR	18.0	9.6	27.6	22.4	10.5	32.9	26.5	11.5	38.0
ACDI	0.3	15.0	15.3	0.3	18.4	18.6	0.3	20.2	20.5
C&C	7.9	---	7.9	8.4	---	8.4	9.8	---	9.8
SNBS	5.3	1.2	6.5	6.3	1.8	8.1	6.9	2.0	8.9
Agr	3.9	---	3.9	4.5	---	4.5	4.6	---	4.6
DN	3.7	---	3.7	3.7	---	3.7	4.1	---	4.1
ASC	0.1	2.1	2.2	0.1	2.8	2.9	0.2	3.2	3.3
EACL	2.6	---	2.6	2.7	---	2.7	2.9	---	2.9
MDT	0.6	2.5	3.1	0.4	1.5	1.9	0.5	1.4	1.9
MN	1.5	0.4	1.9	1.6	0.5	2.1	1.7	0.5	2.2
CRDI	0.4	1.4	1.9	0.5	1.5	2.0	0.6	1.5	2.1
CRM	0.1	1.6	1.7	0.1	1.3	1.4	0.1	1.5	1.6
MTP	1.0	0.4	1.4	1.4	0.3	1.7	1.2	0.3	1.5
ONE	1.1	---	1.1	1.2	---	1.2	1.2	---	1.2
I&C	---	0.8	0.8	---	1.1	1.1	---	1.2	1.2
SCHL	0.6	0.2	0.8	0.6	0.1	0.7	0.7	0.1	0.8
MDC	0.2	0.3	0.5	0.2	0.3	0.5	0.2	0.3	0.5
AIN	0.2	---	0.2	0.3	---	0.3	0.6	---	0.6
ONF	0.1	---	0.1	0.2	---	0.2	0.1	---	0.1
Autres	---	---	---	---	---	---	---	---	---
TOTAL	214.6	43.0	257.6	233.5	48.3	281.7	248.0	52.4	300.4

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

HISTOGRAMME 30
SCIENCES NATURELLES

DEPENSES FEDERALES INTRA-MUROS ET EXTRA-MUROS EN ACTIVITES SCIENTIFIQUES CONNEXES
PAR MINISTERE OU ORGANISME, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COÛTS AUTRES QUE LES PROGRAMMES

TABLEAU 31

SCIENCES NATURELLES

DEPENSES COURANTES FEDERALES EN ACTIVITES SCIENTIFIQUES CONNEXES

PAR ACTIVITE, PAR MINISTERE OU ORGANISME, EN 1975-1978

(\$ MILLIONS)

ACTIVITE	MINISTERE OU ORGANISME	1975-76		1976-77		1977-78	
		\$	%	\$	%	\$	%
COLLECTE DE DONNES SCIENTIFIQUE	MDE	109.4	(76.3)	117.4	(76.0)	124.2	(75.6)
	EMR	24.3	(16.9)	27.1	(17.5)	29.2	(17.8)
	ASC	1.7	(1.2)	2.2	(1.5)	2.6	(1.6)
	SNBS	1.7	(1.2)	2.2	(1.5)	2.5	(1.5)
	MN	1.5	(1.1)	1.6	(1.1)	1.8	(1.1)
	MDT	1.9	(1.4)	0.7	(0.5)	0.3	(0.2)
	EACL	0.8	(0.6)	0.9	(0.6)	0.9	(0.6)
	Agr	0.6	(0.4)	0.8	(0.5)	0.8	(0.5)
	Autres	1.4	(1.0)	1.5	(1.0)	2.0	(1.2)
	TOTAL	143.4	(100.0)	154.6	(100.0)	164.3	(100.0)
RENSEIGNE- MENT SCIENTIFIQUE	CNR	10.3	(24.8)	12.9	(27.9)	15.2	(29.8)
	MDE	11.8	(28.4)	12.3	(26.6)	12.5	(24.5)
	C&C	6.5	(15.7)	6.6	(14.3)	8.0	(15.7)
	EMR	3.1	(7.5)	3.9	(8.3)	4.1	(8.0)
	Agr	3.0	(7.2)	3.3	(7.2)	3.6	(7.1)
	EACL	1.8	(4.2)	1.9	(4.0)	2.0	(3.9)
	DN	1.6	(4.0)	1.6	(3.4)	1.7	(3.4)
	CRDI	1.0	(2.5)	1.1	(2.4)	1.1	(2.2)
	Autres	2.4	(5.8)	2.7	(5.8)	2.7	(5.4)
	TOTAL	41.5	(100.0)	46.3	(100.0)	50.9	(100.0)
ESSAI ET NORMALI- SATION	CNR	6.1	(39.5)	7.5	(39.8)	8.6	(41.5)
	SNBS	3.6	(23.4)	4.5	(23.5)	4.9	(23.7)
	MDE	1.9	(12.4)	2.1	(10.9)	2.1	(10.4)
	C&C	1.2	(7.8)	1.3	(7.1)	1.6	(7.6)
	MTP	0.7	(4.8)	1.0	(5.0)	0.8	(4.0)
	EMR	0.7	(4.5)	0.7	(4.0)	0.9	(4.1)
	MDT	0.3	(1.8)	0.8	(4.3)	0.7	(3.2)
	SCHL	0.4	(2.8)	0.4	(2.3)	0.5	(2.6)
	Autres	0.5	(3.0)	0.6	(3.1)	0.6	(2.9)
	TOTAL	15.5	(100.0)	18.9	(100.0)	20.6	(100.0)

ETUDES DE LA FAISABILITE	ACDI	14.0	(70.7)	17.4	(72.8)	19.1	(71.5)
	DN	1.8	(9.0)	1.9	(7.9)	2.1	(7.7)
	EMR	1.2	(6.2)	1.4	(5.9)	1.5	(5.7)
	MDE	1.2	(5.8)	1.3	(5.6)	1.4	(5.1)
	MDT	0.5	(2.7)	0.1	(0.4)	0.5	(1.9)
	ASC	0.3	(1.3)	0.4	(1.5)	0.4	(1.5)
	CRDI	0.3	(1.6)	0.3	(1.3)	0.3	(1.2)
	CNR	0.1	(0.3)	0.3	(1.3)	0.6	(2.1)
	Autres	0.5	(2.4)	0.8	(3.4)	0.9	(3.3)

TOTAL 19.9 (100.0) 23.9 (100.0) 26.7 (100.0)

AIDE A L'EDUCATION	CNR	8.3	(66.6)	9.0	(67.6)	9.6	(67.3)
	MDE	1.1	(8.5)	1.1	(8.0)	1.2	(8.1)
	CRM	1.2	(9.5)	1.0	(7.4)	1.1	(7.7)
	I&C	0.8	(6.5)	1.1	(8.4)	1.2	(8.1)
	ACDI	1.0	(8.0)	1.0	(7.3)	1.1	(7.5)
	CRDI	0.1	(0.8)	0.1	(0.8)	0.1	(0.8)
	Autres	--	(---)	0.1	(0.4)	0.1	(0.5)

TOTAL 12.5 (100.0) 13.3 (100.0) 14.3 (100.0)

ADMIN. DE PROGRAMMES EXTRA-MUROS	CNR	2.0	(49.4)	2.3	(52.7)	2.8	(53.6)
	EMR	0.6	(14.7)	0.6	(14.5)	0.7	(13.4)
	CRDI	0.4	(10.5)	0.5	(11.3)	0.6	(10.9)
	MDT	0.3	(8.4)	0.3	(5.8)	0.4	(7.0)
	ACDI	0.3	(6.1)	0.3	(6.2)	0.3	(6.5)
	ASC	0.1	(2.4)	0.1	(2.4)	0.2	(2.9)
	SNBS	0.1	(2.4)	0.1	(2.3)	0.1	(1.9)
	MTP	0.1	(2.2)	0.1	(1.8)	0.1	(1.5)
	Autres	0.2	(3.9)	0.1	(3.0)	0.1	(2.2)

TOTAL 4.1 (100.0) 4.4 (100.0) 5.2 (100.0)

DEPENSES EN CAPITAL	MDE	17.7	(85.4)	17.5	(86.2)	15.2	(82.6)
	EMR	1.5	(7.1)	1.2	(6.0)	1.4	(7.8)
	CNR	0.3	(1.6)	0.4	(2.2)	0.9	(4.7)
	SNBS	0.7	(3.2)	0.3	(1.6)	0.4	(1.9)
	C&C	0.1	(0.7)	0.4	(1.9)	0.2	(1.2)
	Agr	0.1	(0.6)	0.2	(1.1)	--	(--)
	DN	0.1	(0.4)	0.1	(0.3)	0.2	(0.9)
	MTP	0.1	(0.4)	0.1	(0.4)	0.1	(0.3)
	Autres	0.1	(0.5)	0.1	(0.4)	0.1	(0.3)

TOTAL 20.7 (100.0) 20.3 (100.0) 18.4 (100.0)

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

3

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TABLEAU 32

SCIENCES HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES
PAR EXECUTANT, EN 1975-1978

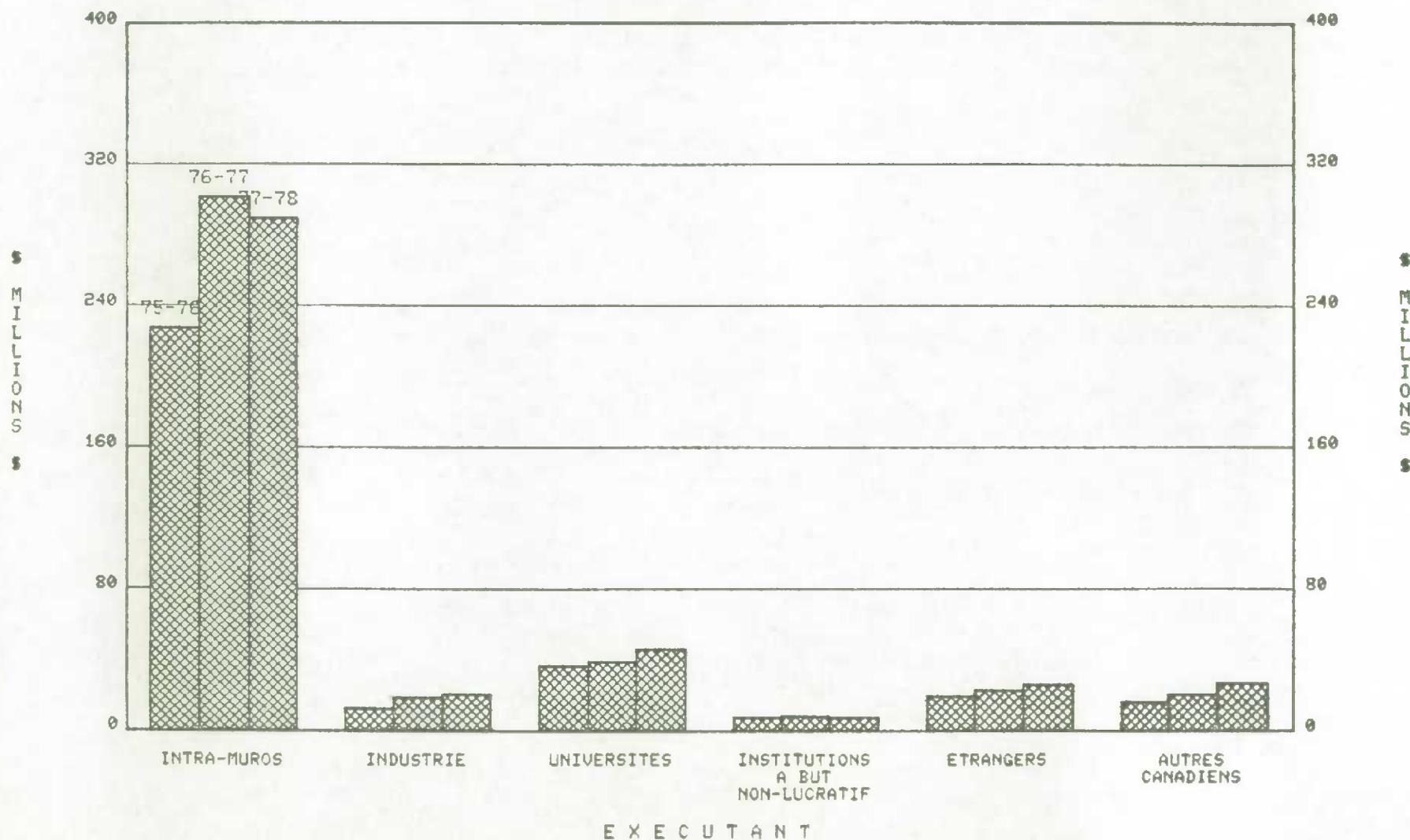
(\$ MILLIONS)

EXECUTANT	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
INTRA-MUROS	227.3	(71.1)	301.8	(73.7)	290.4	(69.7)
INDUSTRIE	12.5	(3.9)	18.6	(4.5)	20.3	(4.9)
UNIVERSITES	36.3	(11.4)	38.4	(9.4)	45.7	(11.0)
INSTITUTIONS A BUT NON-LUC.	7.5	(2.3)	8.3	(2.0)	7.5	(1.8)
ETRANGERS	19.6	(6.1)	22.4	(5.5)	26.4	(6.3)
AUTRES CANADIENS	16.4	(5.1)	20.2	(4.9)	26.4	(6.3)
TOTAL	319.5	(100.0)	409.7	(100.0)	416.7	(100.0)

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRE QUE LES PROGRAMMES

HISTOGRAMME 32
SCIENCES HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES
PAR EXECUTANT, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 33

SCIENCES HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES
PAR EXECUTANT, PAR ACTIVITE, EN 1975-1978

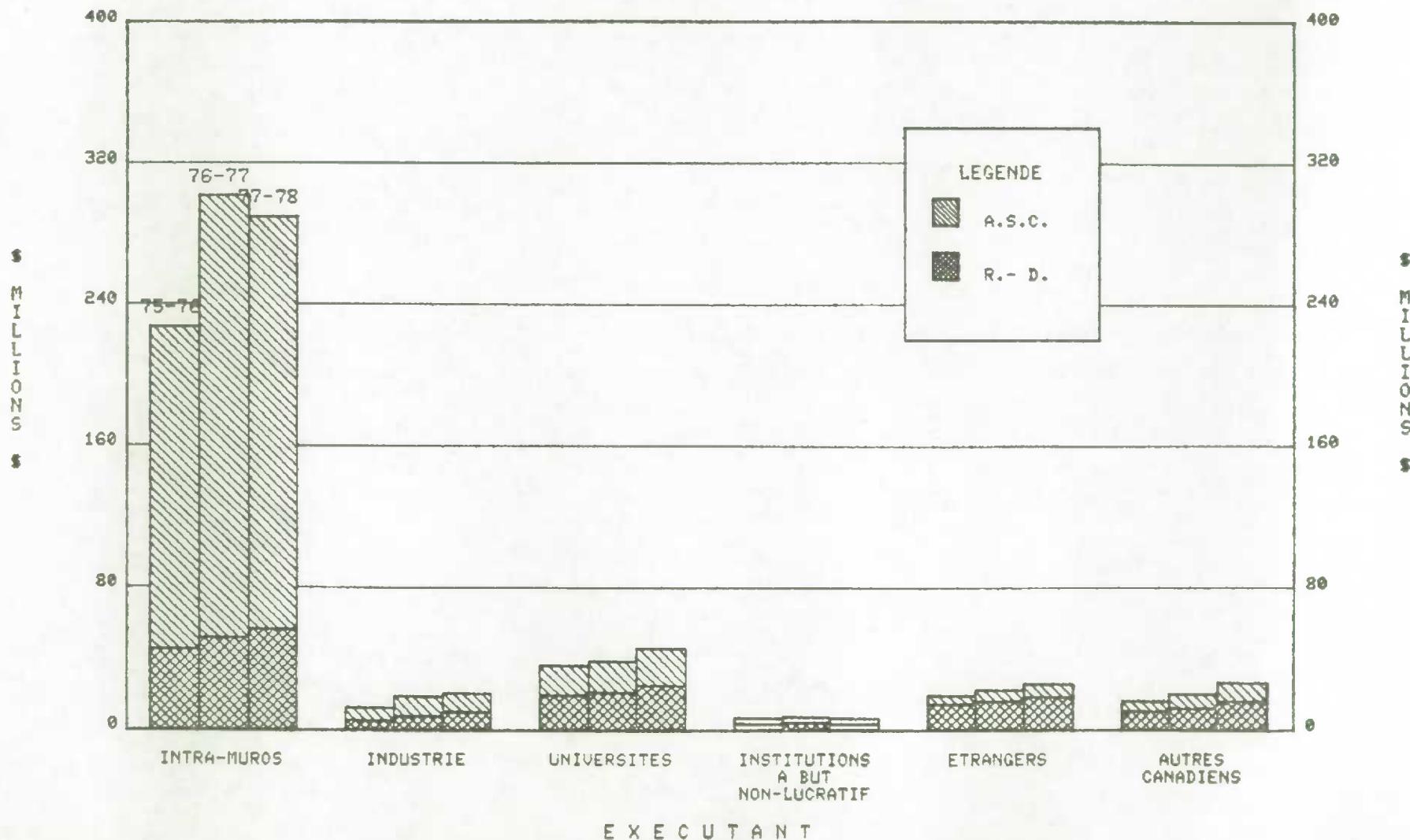
(\$ MILLIONS)

EXECUTANT	1975-76			1976-77			1977-78		
	R-D	ASC	TOTAL	R-D	ASC	TOTAL	R-D	ASC	TOTAL
INTRA-MUROS	44.9	182.4	227.3	51.3	250.5	301.8	56.6	233.7	290.4
INDUSTRIE	5.4	7.1	12.5	7.8	10.7	18.6	9.8	10.5	20.3
UNIVERSITES	19.6	16.7	36.3	21.1	17.3	38.4	25.3	20.4	45.7
INSTITUTIONS À BUT NON-LUC.	3.6	3.9	7.5	4.7	3.5	8.3	3.9	3.6	7.5
ETRANGERS	14.9	4.7	19.6	16.4	6.0	22.4	19.1	7.2	26.4
AUTRES CANADIENS	10.9	5.4	16.4	12.1	8.1	20.2	16.3	10.1	26.4
TOTAL	99.3	220.2	319.5	113.5	296.2	409.7	131.0	285.6	416.7

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRE QUE LES PROGRAMMES

HISTOGRAMME 33
SCIENCES HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES
PAR EXECUTANT, PAR ACTIVITE, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COÛTS AUTRES QUE LES PROGRAMMES

TABLEAU 34

SCIENCES HUMAINES

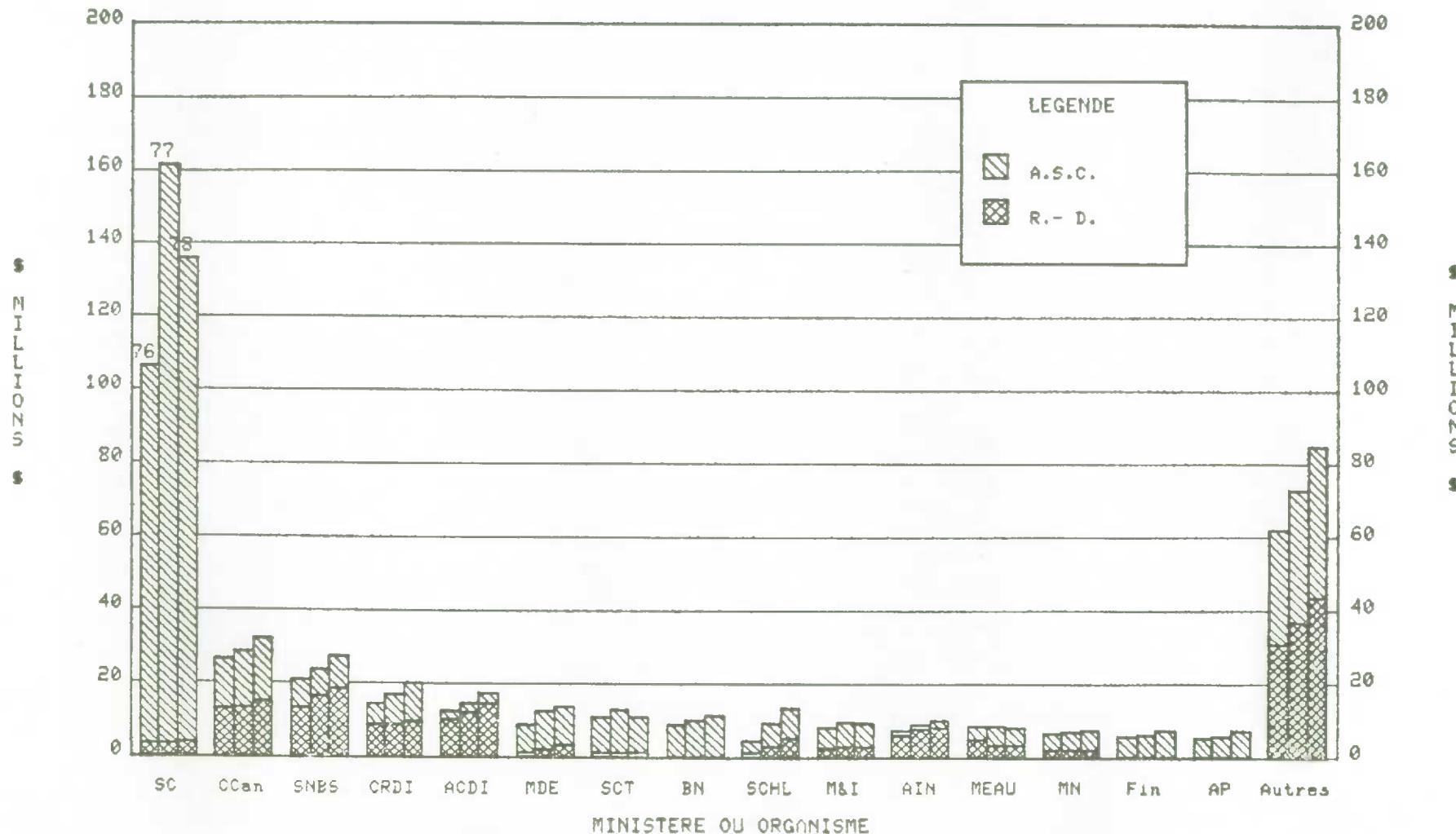
DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES
PAR MINISTERE OU ORGANISME, PAR ACTIVITE, EN 1975-1978
(\$ MILLIONS)

MINISTÈRE OU ORGANISME	1975-76			1976-77			1977-78		
	R-D	ASC	TOTAL	R-D	ASC	TOTAL	R-D	ASC	TOTAL
SC	3.4	103.2	106.7	3.2	158.4	161.7	3.8	132.3	136.1
CCan	12.9	13.8	26.7	13.6	15.0	28.6	15.1	17.0	32.1
SNBS	13.5	7.6	21.1	16.6	7.2	23.8	18.6	8.8	27.4
CRDI	9.1	5.4	14.6	8.9	8.0	16.9	9.7	10.7	20.3
ACDI	10.3	2.2	12.6	12.4	2.3	14.7	14.7	2.6	17.2
MDE	1.7	7.9	9.6	2.3	10.4	12.7	3.3	10.4	13.7
SCT	0.1	10.0	10.1	0.1	11.8	11.9	0.1	9.8	9.9
BN	---	8.9	8.9	---	10.3	10.3	---	11.5	11.5
SCHL	1.5	3.5	5.0	3.1	6.3	9.4	5.5	7.9	13.3
M&I	2.5	5.9	8.3	3.0	6.9	9.9	2.9	6.5	9.4
AIN	6.0	1.3	7.3	7.6	1.8	9.4	8.1	2.2	10.3
MEAU	5.1	3.3	8.5	3.5	5.1	8.6	3.4	4.8	8.1
MN	2.2	4.5	6.6	2.2	4.7	6.9	2.4	5.1	7.5
Fin	---	5.7	5.7	---	6.4	6.4	---	7.2	7.2
AP	---	5.4	5.4	---	5.6	5.6	---	7.5	7.5
MDT	1.9	1.4	3.3	2.9	3.5	6.4	5.2	3.7	8.9
EMR	1.1	4.0	5.0	0.6	4.4	5.1	1.5	5.0	6.4
Jus	3.4	1.3	4.6	3.7	1.3	5.0	5.2	1.6	6.8
SE	0.9	2.9	3.9	1.0	3.7	4.7	1.3	5.2	6.5
CEC	4.2	---	4.2	5.0	---	5.0	5.3	---	5.3
CFP	3.7	---	3.7	4.1	---	4.1	4.7	---	4.7
MEST	0.1	2.6	2.7	0.3	3.6	3.9	0.4	4.1	4.5
AE	---	4.2	4.2	---	2.9	2.9	---	3.3	3.3
MDC	---	2.7	2.7	---	3.3	3.3	---	3.4	3.4
C&C	2.2	0.1	2.2	2.7	0.6	3.2	3.0	0.5	3.5
CCT	1.8	0.7	2.5	1.9	0.7	2.7	2.1	0.8	2.9
MSG	1.1	0.1	1.3	2.8	0.4	3.1	2.8	0.5	3.3
BCP	1.2	1.7	3.0	2.7	---	2.7	2.0	---	2.0
CSc	1.0	1.0	2.0	1.1	1.0	2.2	1.2	1.2	2.4
Trav	0.5	1.7	2.1	0.4	1.5	1.9	0.4	1.8	2.2
Autres	7.8	7.2	15.0	7.7	9.1	16.8	8.5	10.2	18.7
TOTAL	99.3	220.2	319.5	113.5	296.2	409.7	131.0	285.6	416.7

*** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

HISTOGRAMME 34
SCIENCES HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES
PAR MINISTERE OU ORGANISME, PAR ACTIVITE, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 35

SCIENCES HUMAINES

DEPENSES FEDERALES INTRA-MUROS ET EXTRA-MUROS EN ACTIVITES SCIENTIFIQUES

PAR MINISTÈRE OU ORGANISME, EN 1975-1978

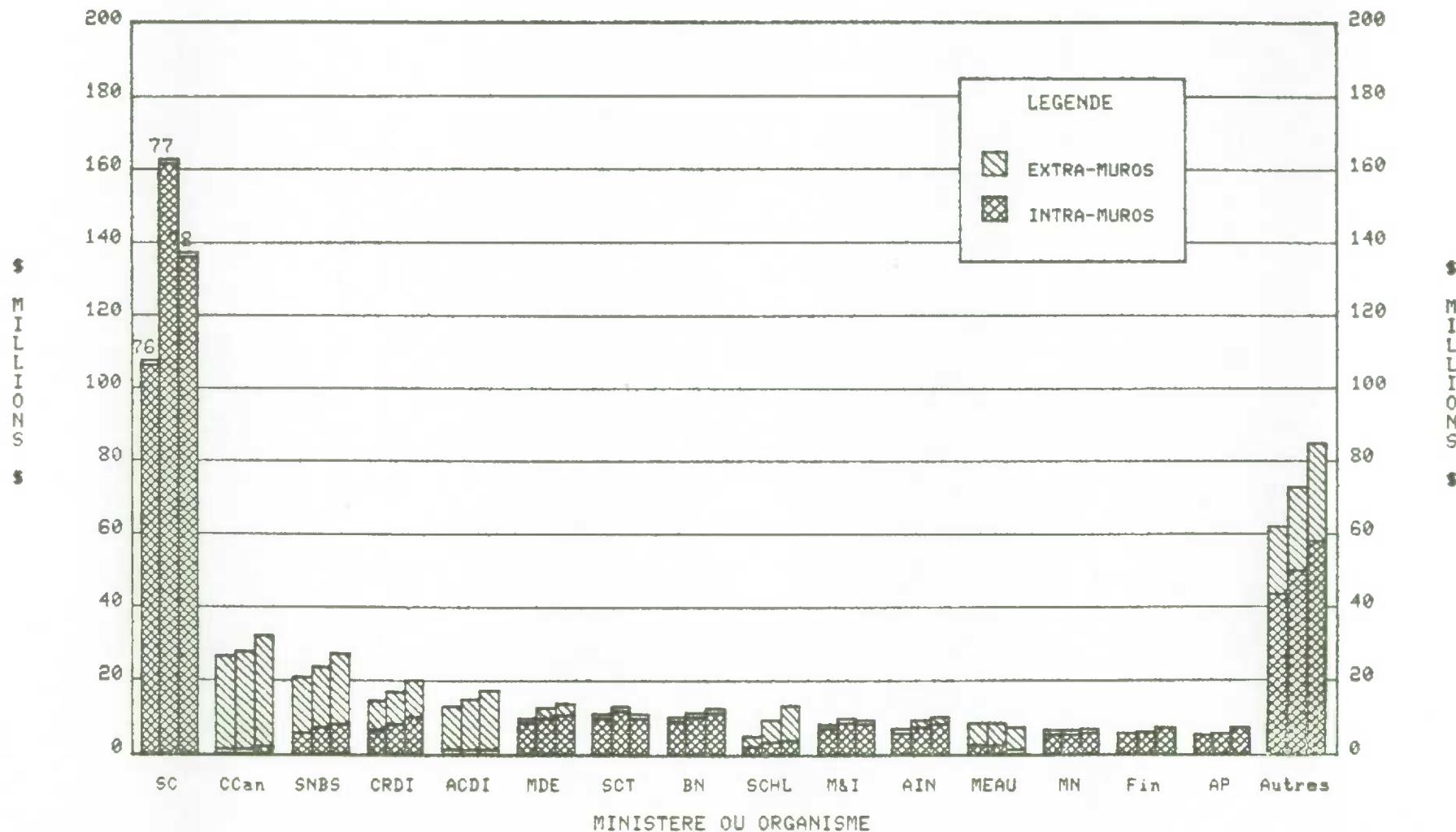
(\$ MILLIONS)

MINISTÈRE OU ORGANISME	1975-76			1976-77			1977-78		
	INTRA- MUROS	EXTRA- MUROS	TOTAL	INTRA- MUROS	EXTRA- MUROS	TOTAL	INTRA- MUROS	EXTRA- MUROS	TOTAL
SC	106.6	--	106.7	161.6	--	161.7	136.1	--	136.1
CCan	1.5	25.2	26.7	1.9	26.6	28.6	2.2	29.8	32.1
SNBS	5.9	15.2	21.1	7.3	16.5	23.8	8.2	19.2	27.4
CRDI	6.7	7.8	14.6	8.3	8.5	16.9	10.0	10.3	20.3
ACDI	0.9	11.7	12.6	1.0	13.7	14.7	1.2	16.1	17.2
MDE	8.6	1.0	9.6	9.8	3.0	12.7	10.7	3.0	13.7
SCT	10.0	0.1	10.1	11.8	0.1	11.9	9.8	0.1	9.9
BN	8.9	--	8.9	10.3	--	10.3	11.5	--	11.5
SCHL	2.2	2.8	5.0	3.3	6.1	9.4	3.7	9.7	13.3
M&I	7.2	1.1	8.3	8.5	1.4	9.9	8.1	1.3	9.4
AIN	5.7	1.7	7.3	7.3	2.1	9.4	8.0	2.3	10.3
MEAU	2.7	5.8	8.5	2.8	5.9	8.6	1.9	6.2	8.1
MN	5.3	1.3	6.6	5.5	1.4	6.9	5.9	1.5	7.5
Fin	5.7	--	5.7	6.4	--	6.4	7.2	--	7.2
AP	5.4	--	5.4	5.6	--	5.6	7.5	--	7.5
MDT	0.9	2.4	3.3	2.2	4.2	6.4	2.5	6.4	8.9
EMR	4.1	1.0	5.0	4.5	0.6	5.1	5.1	1.3	6.4
Jus	3.5	1.1	4.6	3.7	1.3	5.0	4.9	1.9	6.8
SE	1.4	2.4	3.9	2.1	2.6	4.7	3.7	2.9	6.5
CEC	4.0	0.2	4.2	4.8	0.2	5.0	5.1	0.2	5.3
CFF	3.7	--	3.7	4.1	--	4.1	4.7	--	4.7
MEST	2.3	0.4	2.7	3.3	0.6	3.9	3.7	0.8	4.5
AE	2.6	1.6	4.2	1.7	1.2	2.9	1.9	1.4	3.3
MDC	2.0	0.7	2.7	2.5	0.8	3.3	2.6	0.9	3.4
C&C	1.9	0.4	2.2	2.6	0.6	3.2	2.9	0.6	3.5
CCT	1.3	1.2	2.5	1.5	1.2	2.7	1.7	1.2	2.9
MSG	0.6	0.7	1.3	1.2	2.0	3.1	1.1	2.2	3.3
BCP	1.5	1.5	3.0	0.4	2.3	2.7	0.4	1.6	2.0
CSc	1.6	0.4	2.0	1.7	0.5	2.2	1.9	0.5	2.4
Trav	2.1	0.1	2.1	1.8	0.1	1.9	2.2	0.1	2.2
Autres	10.6	4.4	15.0	12.3	4.5	16.8	13.9	4.7	18.7
TOTAL	227.3	92.2	319.5	301.8	107.8	409.7	290.4	126.3	416.7

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

HISTOGRAMME 35
SCIENCES HUMAINES

DEPENSES FEDERALES INTRA-MUROS ET EXTRA-MUROS EN ACTIVITES SCIENTIFIQUES
PAR MINISTERE OU ORGANISME, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 36
SCIENCES HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES

PAR EXECUTANT, PAR ORIGINE DES FONDS, EN 1975-1978

(\$ MILLIONS)

EXECUTANT	MINISTERE OU ORGANISME	1975-76		1976-77		1977-78	
		\$	%	\$	%	\$	%
INTRA-MUROS	SC	106.6	(46.9)	161.6	(53.6)	136.1	(46.9)
*****	SCT	10.0	(4.4)	11.8	(3.9)	9.8	(3.4)
	BN	8.9	(3.9)	10.3	(3.4)	11.5	(4.0)
	MDE	8.6	(3.8)	9.8	(3.2)	10.7	(3.7)
	CRDI	6.7	(3.0)	8.3	(2.8)	10.0	(3.4)
	M&I	7.2	(3.2)	8.5	(2.8)	8.1	(2.8)
	SNBS	5.9	(2.6)	7.3	(2.4)	8.2	(2.8)
	AIN	5.7	(2.5)	7.3	(2.4)	8.0	(2.8)
	Fin	5.7	(2.5)	6.4	(2.1)	7.2	(2.5)
	AP	5.4	(2.4)	5.6	(1.9)	7.5	(2.6)
	MN	5.3	(2.3)	5.5	(1.8)	5.9	(2.0)
	CEC	4.0	(1.8)	4.8	(1.6)	5.1	(1.8)
	EMR	4.1	(1.8)	4.5	(1.5)	5.1	(1.8)
	CFP	3.7	(1.6)	4.1	(1.4)	4.7	(1.6)
	Jus	3.5	(1.5)	3.7	(1.2)	4.9	(1.7)
	Autres	36.0	(15.8)	42.1	(14.0)	47.4	(16.3)
	TOTAL	227.3	(100.0)	301.8	(100.0)	290.4	(100.0)
EXTRA-MUROS	SCHL	0.8	(6.6)	4.0	(21.5)	6.1	(29.9)
*****	MDT	1.3	(10.1)	2.2	(11.7)	2.4	(11.6)
INDUSTRIE	MEAU	2.0	(15.9)	1.5	(7.9)	0.8	(4.0)
	MDE	0.7	(5.7)	1.7	(9.1)	1.0	(4.8)
	MN	1.0	(8.2)	1.1	(5.9)	1.2	(5.9)
	R-C	0.9	(7.5)	1.2	(6.2)	1.2	(6.0)
	CAC	0.9	(7.5)	1.1	(5.9)	1.2	(6.1)
	CCT	1.1	(8.5)	1.1	(5.8)	1.1	(5.4)
	Autres	3.8	(30.1)	4.9	(26.2)	5.3	(26.3)
	TOTAL	12.5	(100.0)	18.6	(100.0)	20.3	(100.0)

UNIVERSITES	CCan	20.1	(55.3)	20.9	(54.4)	23.4	(51.2)
	SNBS	5.8	(15.9)	6.2	(16.2)	7.8	(17.1)
	SE	2.1	(5.7)	1.8	(4.8)	2.4	(5.3)
	ACDI	2.0	(5.4)	1.8	(4.8)	2.0	(4.4)
	AE	1.6	(4.5)	1.2	(3.1)	1.4	(3.2)
	SCHL	1.0	(2.9)	1.4	(3.7)	1.8	(3.9)
	MEAU	1.0	(2.8)	1.3	(3.4)	1.9	(4.1)
	MDT	0.5	(1.5)	0.6	(1.5)	1.2	(2.6)
	Autres	2.2	(6.2)	3.1	(8.1)	3.8	(8.3)
	TOTAL	36.3	(100.0)	38.4	(100.0)	45.7	(100.0)

INSTITUTIONS A BUT NON-LUCRATIF	CCan	2.2	(29.1)	2.3	(27.8)	2.7	(35.3)
	BCP	1.5	(19.9)	2.3	(27.7)	1.6	(21.3)
	SNBS	1.1	(15.4)	1.1	(12.7)	1.3	(17.9)
	MEAU	1.6	(21.5)	1.1	(12.8)	0.5	(6.1)
	AIN	0.3	(3.6)	0.4	(4.5)	0.4	(5.3)
	ASC	---	(---)	0.3	(3.6)	0.3	(4.5)
	CRDI	0.1	(1.5)	0.3	(3.0)	0.2	(3.0)
	MSG	--	(--)	0.2	(2.2)	0.2	(2.7)
	Autres	0.7	(8.8)	0.5	(5.7)	0.3	(3.8)
	TOTAL	7.5	(100.0)	8.3	(100.0)	7.5	(100.0)

ETRANGERS	ACDI	9.8	(49.8)	11.8	(52.8)	14.1	(53.3)
	CRDI	6.1	(31.3)	6.4	(28.7)	7.8	(29.7)
	CCan	3.0	(15.3)	3.4	(15.1)	3.8	(14.4)
	MEST	0.2	(1.1)	0.3	(1.5)	0.3	(1.3)
	SNBS	0.3	(1.5)	0.2	(1.0)	0.3	(1.1)
	EMR	0.1	(0.3)	0.1	(0.3)	---	(---)
	DN	--	(--)	--	(--)	--	(--)
	Trav	--	(--)	--	(--)	--	(--)
	Autres	0.1	(0.6)	0.1	(0.3)	--	(--)
	TOTAL	19.6	(100.0)	22.4	(100.0)	26.4	(100.0)

AUTRES CANADIENS	SNBS	7.8	(47.5)	8.8	(43.7)	9.5	(36.1)
	MEAU	1.1	(6.9)	2.0	(10.2)	3.1	(11.8)
	CRDI	1.4	(8.3)	1.6	(7.9)	2.0	(7.5)
	MDT	0.6	(3.7)	1.5	(7.5)	2.8	(10.7)
	Jus	1.0	(6.1)	1.2	(5.8)	1.8	(6.7)
	SCHL	0.7	(4.5)	0.7	(3.3)	1.8	(7.0)
	AIN	0.7	(4.4)	0.8	(3.9)	0.9	(3.3)
	EMR	0.7	(4.4)	0.3	(1.4)	1.1	(4.1)
	Autres	2.4	(14.4)	3.3	(16.2)	3.4	(12.9)
	TOTAL	16.4	(100.0)	20.2	(100.0)	26.4	(100.0)

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 37

SCIENCES HUMAINES

DEPENSES FEDERALES EN RECHERCHE-DEVELOPPEMENT
PAR EXECUTANT, EN 1975-1978

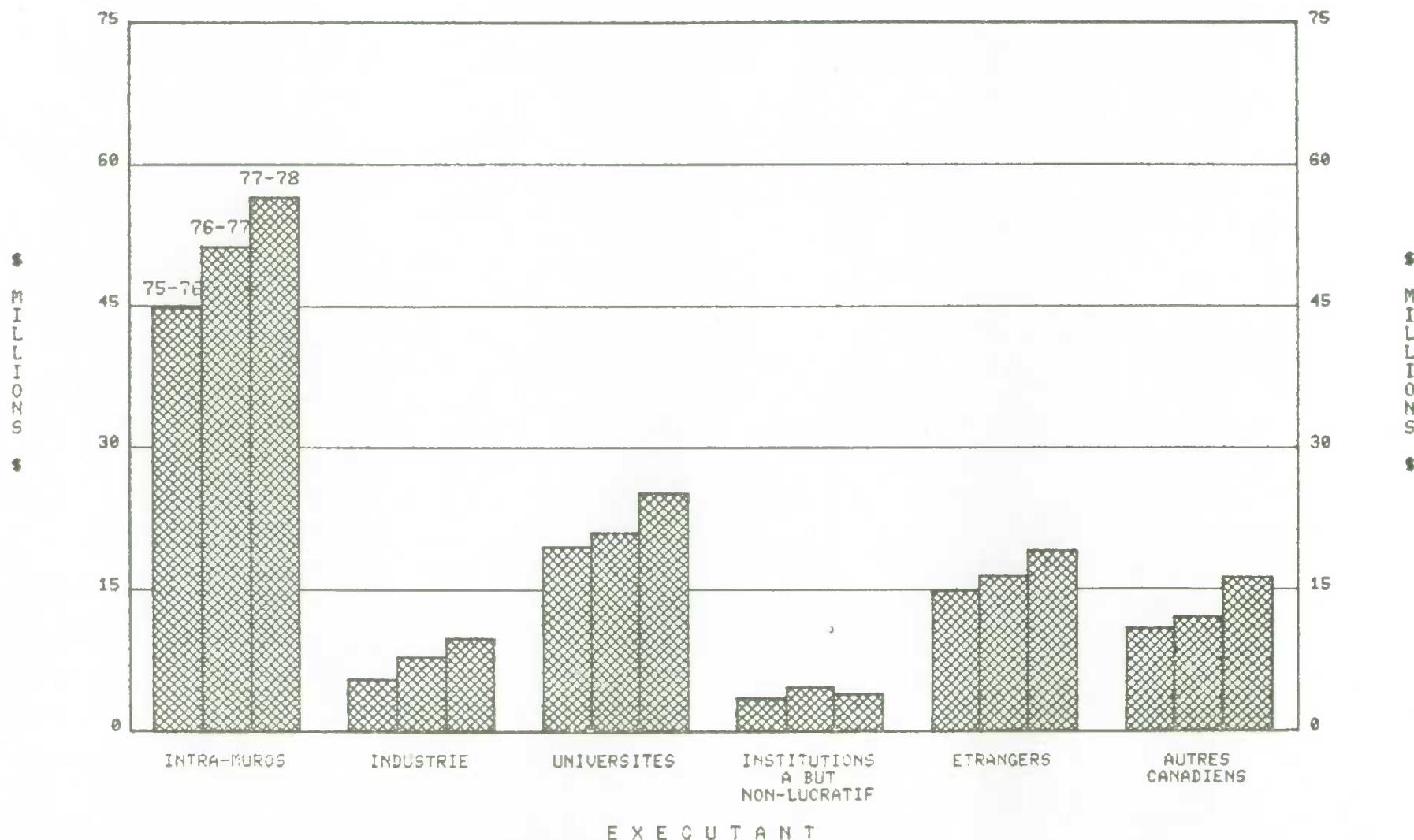
(\$ MILLIONS)

EXECUTANT	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
INTRA-MUROS	44.9	(45.2)	51.3	(45.2)	56.6	(43.2)
INDUSTRIE	5.4	(5.4)	7.8	(6.9)	9.8	(7.5)
UNIVERSITES	19.6	(19.7)	21.1	(18.6)	25.3	(19.3)
INSTITUTIONS A BUT NON-LUC.	3.6	(3.6)	4.7	(4.2)	3.9	(3.0)
ETRANGERS	14.9	(15.0)	16.4	(14.4)	19.1	(14.6)
AUTRES CANADIENS	10.9	(11.0)	12.1	(10.7)	16.3	(12.5)
TOTAL	99.3	(100.0)	113.5	(100.0)	131.0	(100.0)

*** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRE QUE LES PROGRAMMES

HISTOGRAMME 37
SCIENCES HUMAINES

DEPENSES FEDERALES EN RECHERCHE-DEVELOPPEMENT
PAR EXECUTANT, EN 1975-1978



** DEPENSES EN INTRA-MUROS NE COMPRENNENT PAS LES COÛTS AUTRES QUE LES PROGRAMMES

TABLEAU 38

SCIENCES HUMAINES

DEPENSES FEDERALES EN RECHERCHE-DEVELOPPEMENT

PAR TYPE DE FINANCEMENT, EN 1975-1978

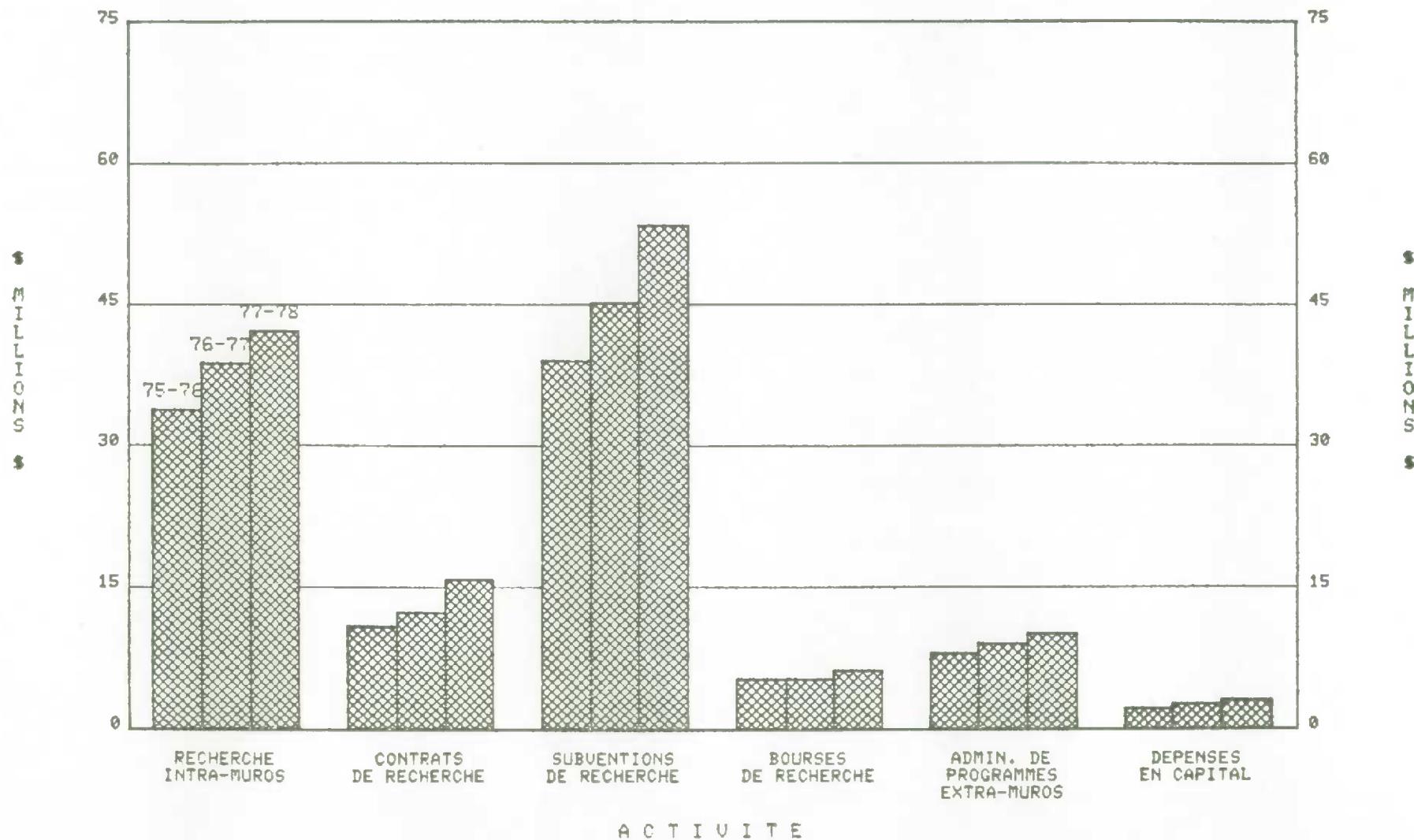
(\$ MILLIONS)

TYPE DE FINANCE.	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
DEPENSES COURANTES	97.1	(97.8)	110.8	(97.6)	128.0	(97.7)
RECHERCHES INTRA-MUROS	33.8	(34.0)	38.8	(34.1)	42.2	(32.2)
CONTRATS DE RECHERCHE	10.9	(11.0)	12.4	(11.0)	15.9	(12.1)
SUBVENTIONS DE RECHERCHE	39.1	(39.3)	45.2	(39.8)	53.5	(40.8)
BOURSES DE RECHERCHE	5.3	(5.4)	5.3	(4.7)	6.3	(4.8)
ADMIN. DE PROG. EXTRA-MUROS	8.0	(8.1)	9.1	(8.0)	10.2	(7.8)
DEPENSES EN CAPITAL	2.2	(2.2)	2.7	(2.4)	3.0	(2.3)
TOTAL	99.3	(100.0)	113.5	(100.0)	131.0	(100.0)

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRE QUE LES PROGRAMMES

HISTOGRAMME 38
SCIENCES HUMAINES

DEPENSES FEDERALES EN RECHERCHE-DEVELOPPEMENT
PAR TYPE DE FINANCEMENT, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 39

SCIENCES HUMAINES

DEPENSES FEDERALES INTRA-MUROS ET EXTRA-MUROS EN RECHERCHE-DEVELOPPEMENT

PAR MINISTÈRE OU ORGANISME, EN 1975-1978

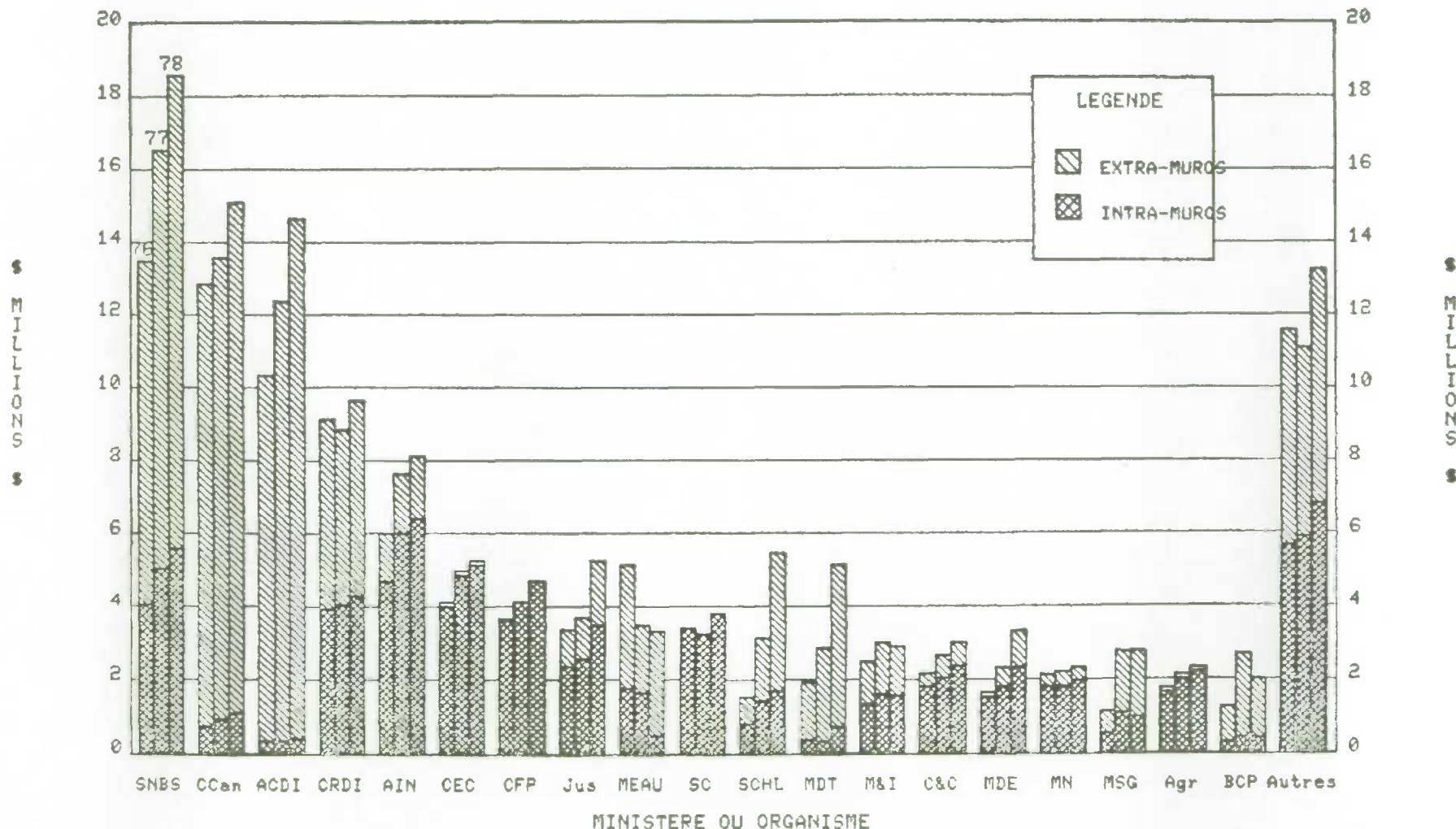
(\$ MILLIONS)

MINISTÈRE OU ORGANISME	1975-76			1976-77			1977-78		
	INTRA- MUROS	EXTRA- MUROS	TOTAL	INTRA- MUROS	EXTRA- MUROS	TOTAL	INTRA- MUROS	EXTRA- MUROS	TOTAL
SNBS	4.1	9.4	13.5	5.0	11.6	16.6	5.6	13.0	18.6
CCan	0.7	12.1	12.8	1.0	12.6	13.6	1.1	14.0	15.1
ACDI	0.3	10.0	10.3	0.3	12.0	12.4	0.4	14.3	14.7
CRDI	3.9	5.2	9.1	4.1	4.8	8.9	4.3	5.4	9.7
AIN	4.7	1.3	6.0	6.0	1.6	7.6	6.4	1.7	8.1
CEC	4.0	0.2	4.2	4.8	0.2	5.0	5.1	0.2	5.3
CFP	3.7	--	3.7	4.1	--	4.1	4.7	--	4.7
JUS	2.4	1.0	3.4	2.6	1.1	3.7	3.5	1.7	5.2
MEAU	1.8	3.4	5.1	1.7	1.9	3.5	0.5	2.8	3.4
SC	3.4	--	3.4	3.2	--	3.2	3.8	--	3.8
SCHL	0.8	0.7	1.5	1.4	1.7	3.1	1.7	3.7	5.5
MDT	0.4	1.5	1.9	0.3	2.5	2.9	0.7	4.4	5.2
M&I	1.3	1.1	2.5	1.6	1.4	3.0	1.6	1.3	2.9
C&C	1.8	0.4	2.2	2.1	0.6	2.7	2.4	0.6	3.0
MDE	1.5	0.2	1.7	1.8	0.5	2.3	2.3	1.0	3.3
MN	1.8	0.3	2.2	1.8	0.4	2.2	2.0	0.4	2.4
MSG	0.5	0.6	1.1	1.1	1.7	2.8	1.0	1.8	2.8
Agr	1.7	--	1.7	2.0	0.1	2.1	2.2	0.1	2.3
BCP	0.3	0.9	1.2	0.4	2.3	2.7	0.4	1.6	2.0
CCT	1.0	0.8	1.8	1.1	0.9	1.9	1.3	0.9	2.1
CAC	0.6	0.9	1.5	0.7	1.0	1.7	0.8	1.1	2.0
CSC	0.6	0.4	1.0	0.7	0.5	1.1	0.8	0.5	1.2
SE	0.1	0.9	0.9	0.2	0.8	1.0	0.4	0.9	1.3
EMR	0.2	0.9	1.1	0.2	0.5	0.6	0.2	1.3	1.5
DN	0.7	0.2	0.8	0.8	0.2	0.9	0.8	0.2	1.0
EER	0.6	0.2	0.7	0.6	0.3	0.9	0.6	0.3	0.9
CRTC	0.6	0.1	0.7	0.5	0.2	0.8	0.6	0.2	0.8
I&C	0.4	0.9	1.3	0.1	0.4	0.5	0.1	0.3	0.5
CCN	0.6	--	0.6	0.5	--	0.5	0.6	--	0.6
Trav	0.4	0.1	0.5	0.3	0.1	0.4	0.4	0.1	0.4
Autres	0.2	0.6	0.8	0.2	0.5	0.7	0.2	0.6	0.8
TOTAL	44.9	54.4	99.3	51.3	62.2	113.5	56.6	74.4	131.0

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

HISTOGRAMME 39
SCIENCES HUMAINES

DEPENSES FEDERALES INTRA-MUROS ET EXTRA-MUROS EN RECHERCHE-DEVELOPPEMENT
PAR MINISTÈRE OU ORGANISME, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COÛTS AUTRES QUE LES PROGRAMMES

TABLEAU 40
SCIENCES HUMAINES

DEPENSES FEDERALES EN RECHERCHE-DEVELOPPEMENT

PAR EXECUTANT, PAR ORIGINE DES FONDS, EN 1975-1978

(\$ MILLIONS)

EXECUTANT	MINISTERE OU ORGANISME	1975-76		1976-77		1977-78	
		\$	%	\$	%	\$	%
INTRA-MUROS	AIN	4.7	(10.4)	6.0	(11.7)	6.4	(11.4)
*****	SNBS	4.1	(9.1)	5.0	(9.7)	5.6	(9.8)
	CEC	4.0	(9.0)	4.8	(9.4)	5.1	(9.1)
	CFP	3.7	(8.2)	4.1	(8.0)	4.7	(8.3)
	CRDI	3.9	(8.7)	4.1	(7.9)	4.3	(7.6)
	SC	3.4	(7.6)	3.2	(6.3)	3.8	(6.8)
	Jus	2.4	(5.3)	2.6	(5.0)	3.5	(6.2)
	C&C	1.8	(4.0)	2.1	(4.0)	2.4	(4.2)
	Agr	1.7	(3.7)	2.0	(3.9)	2.2	(3.9)
	MDE	1.5	(3.4)	1.8	(3.6)	2.3	(4.1)
	MN	1.8	(4.0)	1.8	(3.6)	2.0	(3.5)
	M&I	1.3	(3.0)	1.6	(3.2)	1.6	(2.8)
	Schl	0.8	(1.8)	1.4	(2.8)	1.7	(3.0)
	MEAU	1.8	(3.9)	1.7	(3.2)	0.5	(0.9)
	CCT	1.0	(2.1)	1.1	(2.1)	1.3	(2.2)
	Autres	7.0	(15.6)	8.0	(15.5)	9.2	(16.2)
	TOTAL	44.9	(100.0)	51.3	(100.0)	56.6	(100.0)
EXTRA-MUROS	Schl	0.2	(3.2)	1.7	(21.8)	3.3	(34.1)
*****	CAC	0.9	(16.3)	1.0	(12.4)	1.1	(11.7)
INDUSTRIE	M&I	0.8	(15.6)	1.0	(13.3)	1.0	(10.1)
	CCT	0.7	(13.8)	0.8	(10.1)	0.8	(8.1)
	MDT	0.6	(10.7)	0.7	(9.4)	0.8	(8.6)
	MEAU	0.9	(16.2)	0.4	(4.5)	0.3	(3.2)
	MSG	0.1	(2.7)	0.4	(5.5)	0.5	(4.8)
	AIN	0.2	(2.8)	0.2	(2.8)	0.2	(2.3)
	Autres	1.0	(18.8)	1.6	(20.2)	1.7	(17.1)
	TOTAL	5.4	(100.0)	7.8	(100.0)	9.8	(100.0)
UNIVERSITES	CCan	12.1	(62.0)	12.6	(59.8)	14.0	(55.3)
	SNBS	3.5	(18.0)	4.3	(20.5)	5.4	(21.3)
	Autres	3.9	(20.0)	4.2	(19.7)	5.9	(23.4)
	TOTAL	19.6	(100.0)	21.1	(100.0)	25.3	(100.0)

INSTITUTIONS A BUT NON-LUCRATIF	BCP	0.9	(26.4)	2.3	(48.4)	1.6	(41.2)
	MEAU	1.4	(39.1)	0.6	(11.8)	0.4	(11.1)
	SNBS	0.3	(7.6)	0.7	(14.8)	0.8	(21.4)
	AIN	0.3	(7.6)	0.4	(7.8)	0.4	(10.2)
	CRDI	0.1	(3.2)	0.3	(5.3)	0.2	(5.8)
	MSG	--	(--)	0.2	(3.8)	0.2	(4.6)
	SE	0.2	(4.3)	0.2	(3.6)	---	(---)
	SCT	0.1	(2.5)	0.1	(1.9)	0.1	(2.5)
	Autres	0.3	(8.8)	0.1	(2.6)	0.1	(3.1)
	TOTAL	3.6	(100.0)	4.7	(100.0)	3.9	(100.0)

ETRANGERS	ACDI	9.8	(65.3)	11.8	(72.3)	14.1	(73.4)
	CRDI	4.8	(32.0)	4.2	(25.7)	4.7	(24.6)
	SNBS	0.3	(1.9)	0.2	(1.4)	0.3	(1.5)
	Autres	0.1	(0.7)	0.1	(0.7)	0.1	(0.4)
	TOTAL	14.9	(100.0)	16.4	(100.0)	19.1	(100.0)

AUTRES CANADIENS	SNBS	5.2	(47.6)	6.2	(51.2)	6.4	(39.0)
	MDT	0.5	(4.2)	1.3	(10.4)	2.4	(14.8)
	Jus	0.9	(7.8)	1.0	(8.4)	1.6	(9.6)
	MEAU	0.7	(6.5)	0.4	(3.6)	1.7	(10.4)
	AIN	0.7	(6.4)	0.7	(6.2)	0.8	(4.8)
	EMR	0.7	(6.6)	0.3	(2.3)	1.1	(6.6)
	CRDI	0.2	(2.2)	0.4	(2.9)	0.4	(2.6)
	C&C	0.3	(2.4)	0.4	(3.1)	0.4	(2.2)
	Autres	1.8	(16.3)	1.4	(11.9)	1.6	(10.0)
	TOTAL	10.9	(100.0)	12.1	(100.0)	16.3	(100.0)

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 41

SCIENCES HUMAINES

AIDE FEDERALE A LA RECHERCHE-DEVELOPPEMENT
 DANS LES UNIVERSITES ET LES INSTITUTIONS A BUT NON-LUCRATIF
 PAR MINISTERE OU ORGANISME, EN 1975-1978

(\$ MILLIONS)

MINISTERE OU ORGANISME	1975-76		1976-77		1977-78	
	SUBVENT.	CONTRATS	SUBVENT.	CONTRATS	SUBVENT.	CONTRATS
CCan	8.2	---	8.7	---	9.6	---
SNBS	3.5	0.1	4.6	0.1	5.7	0.1
BCP	0.9	0.1	2.0	0.3	1.0	0.6
MEAU	1.4	0.4	0.8	0.3	0.6	0.3
SE	0.7	0.1	0.7	--	0.9	--
MSG	0.1	0.2	0.2	0.7	0.2	0.7
MDT	0.3	0.2	0.3	0.1	0.5	0.6
AIN	0.1	0.4	0.1	0.5	0.1	0.6
MDE	0.1	--	0.1	0.1	0.6	0.1
I&C	0.2	--	0.3	--	0.2	--
CRDI	0.2	--	0.3	--	0.2	--
Schl	0.3	0.1	--	--	0.1	0.1
EMR	0.2	--	0.2	--	0.2	--
M&I	--	0.1	0.1	0.1	--	0.1
DN	--	0.1	--	0.1	--	0.1
SCT	0.1	--	0.1	--	0.1	--
MN	--	0.1	--	0.1	--	0.1
Jus	--	0.1	--	0.1	--	0.1
CSc	--	0.1	--	0.1	--	0.1
CRTC	0.1	--	0.1	--	0.1	--
Autres	0.1	0.3	--	0.2	--	0.2
TOTAL	16.3	2.2	18.4	2.8	20.2	3.8

HISTOGRAMME 41
SCIENCES HUMAINES

AIDE FEDERALE A LA RECHERCHE-DEVELOPPEMENT
DANS LES UNIVERSITES ET LES INSTITUTIONS A BUT NON-LUCRATIF
PAR MINISTERE OU ORGANISME, EN 1975-1978

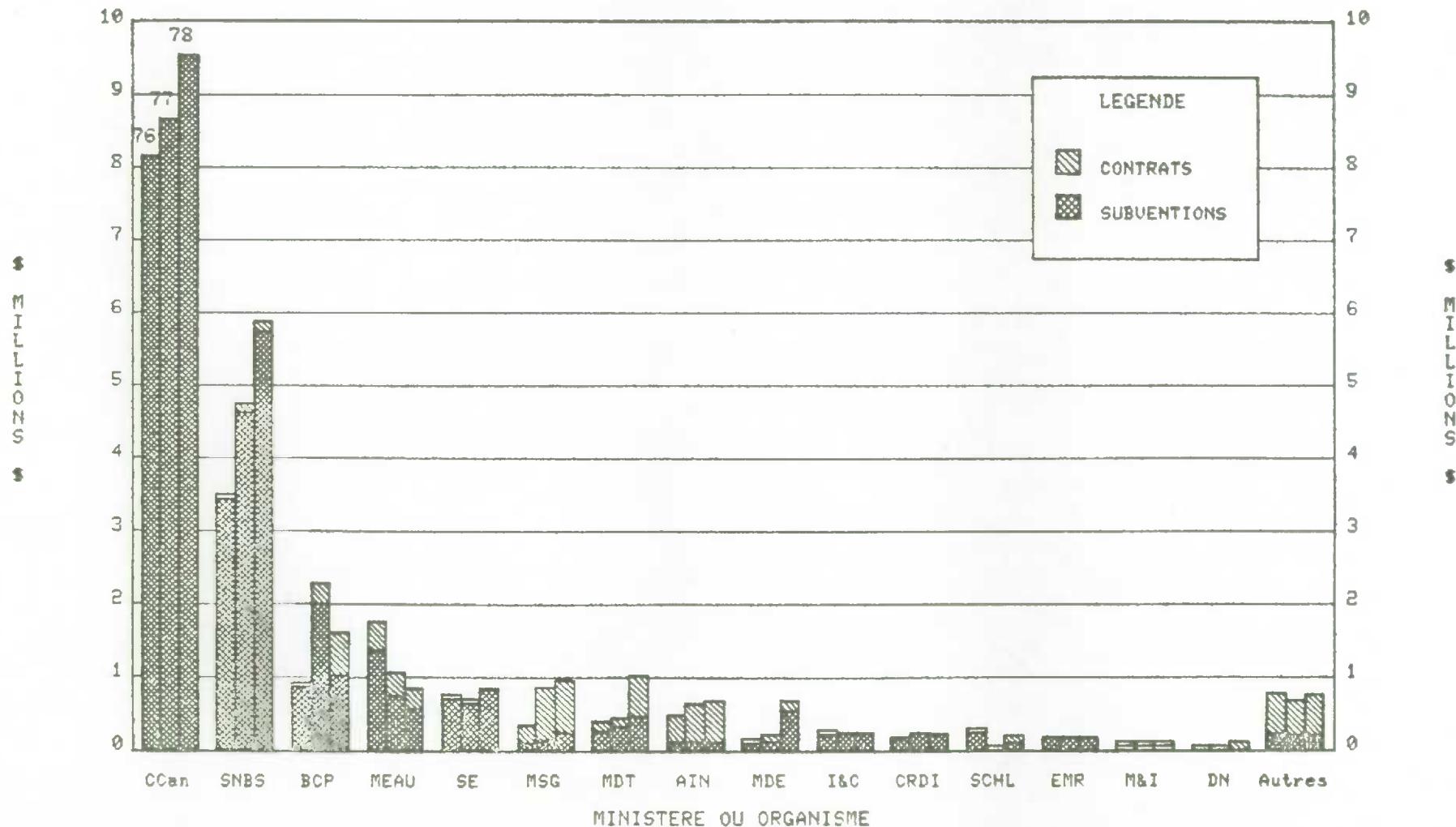


TABLEAU 42

SCIENCES HUMAINES

AIDE FEDERALE A LA RECHERCHE-DEVELOPPEMENT
DANS L'INDUSTRIE
PAR MINISTÈRE OU ORGANISME, EN 1975-1978

(\$ MILLIONS)

MINISTÈRE OU ORGANISME	1975-76		1976-77		1977-78	
	SUBVENT.	CONTRATS	SUBVENT.	CONTRATS	SUBVENT.	CONTRATS
Schl	---	0.1	1.6	0.1	3.0	0.3
CAC	---	0.9	---	1.0	---	1.1
M&I	---	0.8	---	1.0	---	1.0
CCT	---	0.7	---	0.8	---	0.8
MDT	---	0.6	---	0.7	---	0.8
MEAU	---	0.9	---	0.4	---	0.3
MSG	---	0.1	---	0.4	---	0.5
AIN	---	0.2	---	0.2	---	0.2
C&C	---	0.1	---	0.2	---	0.3
CSC	---	0.2	---	0.2	---	0.2
MDE	---	--	---	0.3	---	0.2
EER	---	0.1	---	0.2	---	0.2
MEST	---	0.1	---	0.1	---	0.3
I&C	---	0.2	---	0.1	---	0.1
SNBS	0.1	--	0.1	--	0.1	--
ASC	---	0.1	---	0.1	---	0.1
CRTC	---	--	---	0.1	---	0.1
Jus	---	0.1	---	--	---	0.1
DN	---	--	---	--	---	0.1
MN	---	--	---	--	---	--
Autres	---	--	---	--	---	--
TOTAL	0.1	5.3	1.7	6.1	3.1	6.6

HISTOGRAMME 42
SCIENCES HUMAINES

AIDE FEDERALE A LA RECHERCHE-DEVELOPPEMENT
DANS L'INDUSTRIE
PAR MINISTERE OU ORGANISME, EN 1975-1978

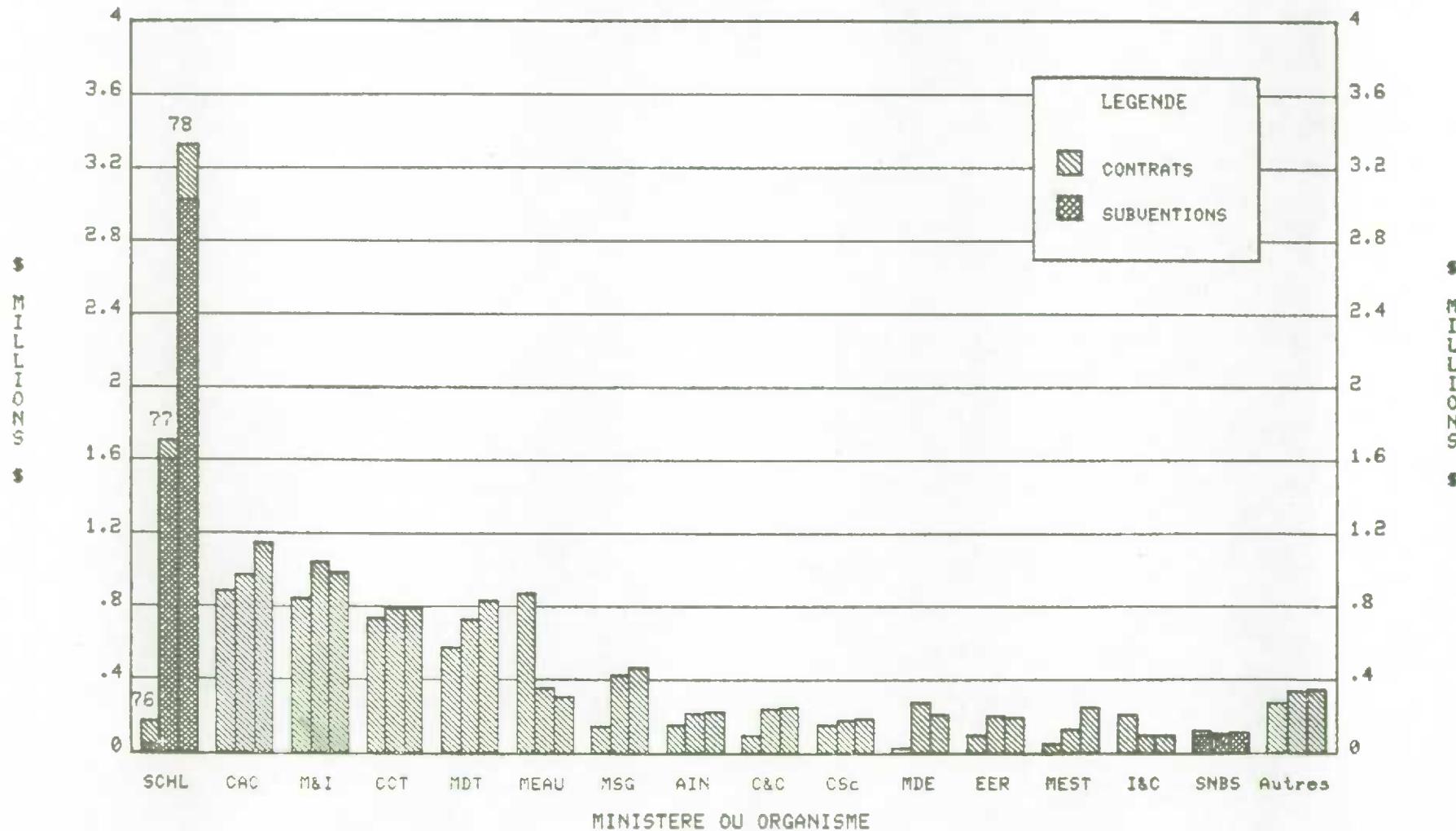


TABLEAU 43

SCIENCES HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES CONNEXES
PAR EXECUTANT, EN 1975-1978

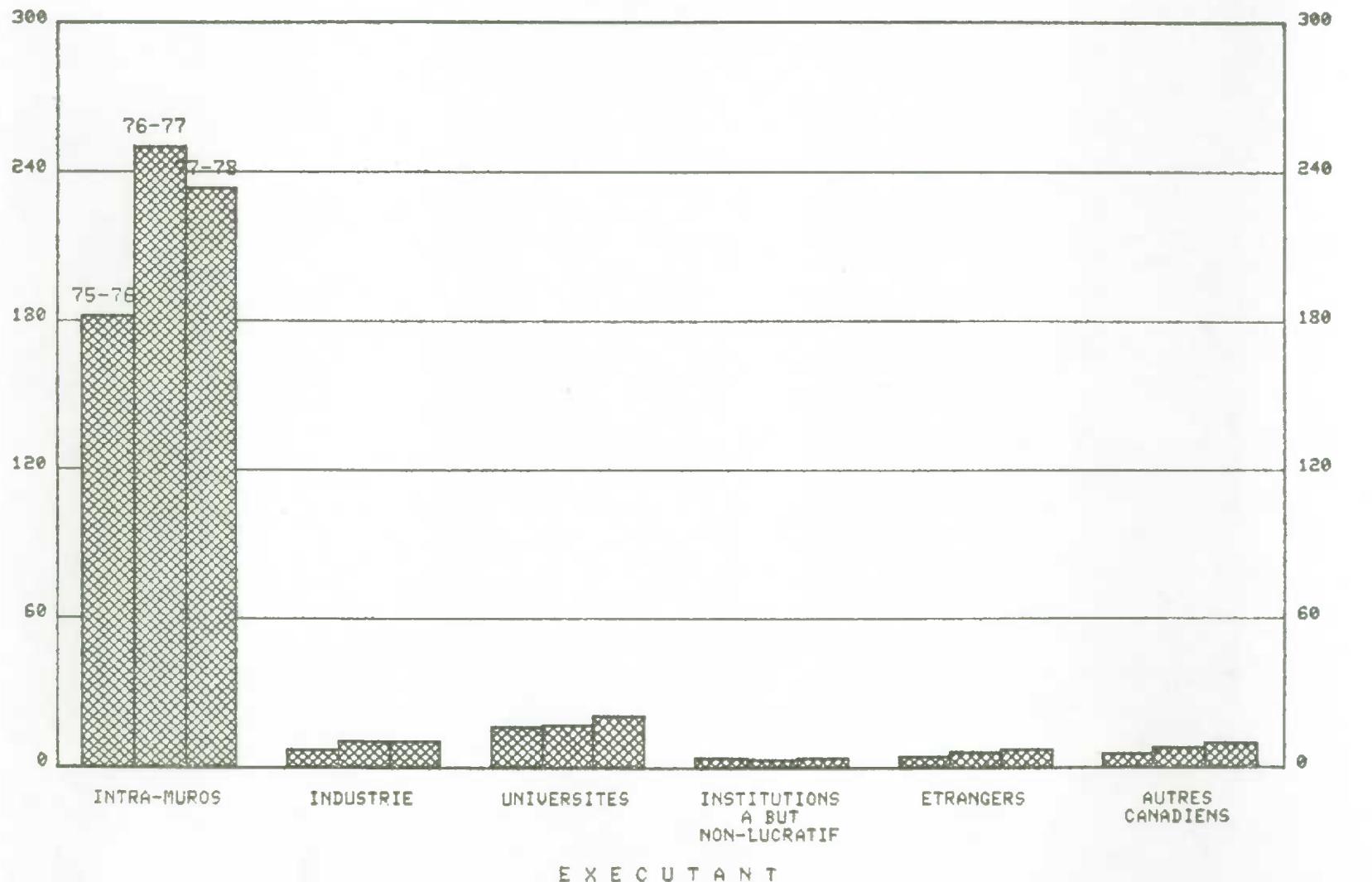
(\$ MILLIONS)

EXECUTANT	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
INTRA-MUROS	182.4	(82.8)	250.5	(84.6)	233.7	(81.8)
INDUSTRIE	7.1	(3.2)	10.7	(3.6)	10.5	(3.7)
UNIVERSITES	16.7	(7.6)	17.3	(5.8)	20.4	(7.1)
INSTITUTIONS A BUT NON-LUC.	3.9	(1.8)	3.5	(1.2)	3.6	(1.3)
ETRANGERS	4.7	(2.1)	6.0	(2.0)	7.2	(2.5)
AUTRES CANADIENS	5.4	(2.5)	8.1	(2.7)	10.1	(3.5)
TOTAL	220.2	(100.0)	296.2	(100.0)	285.6	(100.0)

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRE QUE LES PROGRAMMES

HISTOGRAMME 43
SCIENCES HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES CONNEXES
PAR EXECUTANT, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 44

SCIENCES HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES CONNEXES
PAR ACTIVITE, EN 1975-1978

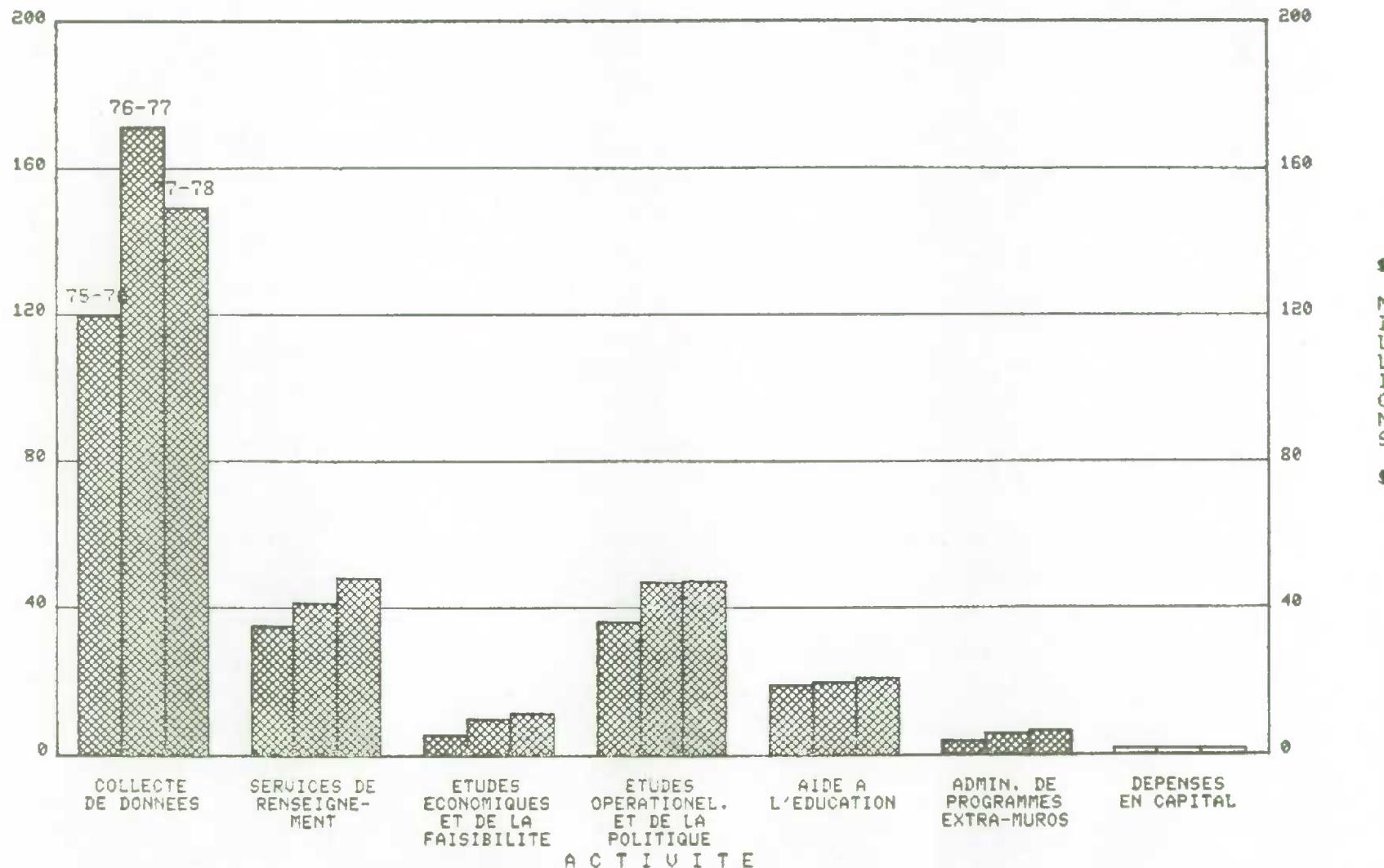
(\$ MILLIONS)

ACTIVITE	1975-76		1976-77		1977-78	
	\$	%	\$	%	\$	%
DEPENSES COURANTES	219.0	(99.4)	294.7	(99.5)	284.2	(99.5)
COLLECTE DE DONNEES	119.8	(54.4)	171.2	(57.8)	149.6	(52.4)
SERVICES DE RENSEIGNEMENT	34.8	(15.8)	41.5	(14.0)	48.1	(16.8)
ETUDES ECONOMIQUE, FAISABILITE	5.5	(2.5)	9.6	(3.2)	11.3	(4.0)
ETUDES D'OPERATION, POLITIQUE	36.1	(16.4)	47.0	(15.9)	47.5	(16.6)
AIDE A L'EDUCATION	19.0	(8.6)	19.8	(6.7)	21.1	(7.4)
ADMIN. DE PROG. EXTRA-MUROS	3.8	(1.7)	5.6	(1.9)	6.6	(2.3)
DEPENSES EN CAPITAL	1.2	(0.6)	1.5	(0.5)	1.4	(0.5)
TOTAL	220.2	(100.0)	296.2	(100.0)	285.6	(100.0)

** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRE QUE LES PROGRAMMES

HISTOGRAMME 44
SCIENCES HUMAINES

DEPENSES FEDERALES EN ACTIVITES SCIENTIFIQUES CONNEXES
PAR ACTIVITE, EN 1975-1978



** DEPENSES INTRA-MURS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

TABLEAU 45

SCIENCES HUMAINES

DEPENSES FEDERALES INTRA-MUROS ET EXTRA-MUROS EN ACTIVITES SCIENTIFIQUES CONNESES

PAR MINISTÈRE OU ORGANISME, EN 1975-1978

(\$ MILLIONS)

MINISTÈRE OU ORGANISME	1975-76			1976-77			1977-78		
	INTRA- MUROS	EXTRA- MUROS	TOTAL	INTRA- MUROS	EXTRA- MUROS	TOTAL	INTRA- MUROS	EXTRA- MUROS	TOTAL
SC	103.2	--	103.2	158.4	--	158.4	132.3	--	132.3
CCan	0.7	13.1	13.8	1.0	14.0	15.0	1.1	15.9	17.0
SCT	10.0	--	10.0	11.8	--	11.8	9.8	--	9.8
BN	8.9	--	8.9	10.3	--	10.3	11.5	--	11.5
MDE	7.0	0.8	7.9	7.9	2.5	10.4	8.3	2.0	10.4
CRDI	2.8	2.6	5.4	4.3	3.7	8.0	5.7	5.0	10.7
SNBS	1.8	5.8	7.6	2.3	4.9	7.2	2.6	6.2	8.8
Fin	5.7	--	5.7	6.4	--	6.4	7.2	--	7.2
M&I	5.9	--	5.9	6.9	--	6.9	6.5	--	6.5
AP	5.4	--	5.4	5.6	--	5.6	7.5	--	7.5
SCHL	1.4	2.1	3.5	1.9	4.4	6.3	1.9	5.9	7.9
MN	3.5	1.0	4.5	3.7	1.1	4.7	4.0	1.2	5.1
EMR	3.9	0.1	4.0	4.3	0.1	4.4	4.9	0.1	5.0
MEAU	0.9	2.4	3.3	1.1	4.0	5.1	1.4	3.4	4.8
SE	1.4	1.5	2.9	1.9	1.8	3.7	3.2	2.0	5.2
AE	2.6	1.6	4.2	1.7	1.2	2.9	1.9	1.4	3.3
MEST	2.3	0.3	2.6	3.2	0.4	3.6	3.7	0.4	4.1
MDC	2.0	0.7	2.7	2.5	0.8	3.3	2.6	0.9	3.4
MDT	0.5	0.9	1.4	1.8	1.7	3.5	1.8	2.0	3.7
ACDI	0.6	1.7	2.2	0.6	1.6	2.3	0.7	1.8	2.6
R-C	0.7	0.9	1.7	0.8	1.2	1.9	0.9	1.2	2.1
RC	1.3	--	1.3	1.8	--	1.8	2.2	--	2.2
AIN	1.0	0.3	1.3	1.3	0.5	1.8	1.6	0.6	2.2
Trav	1.7	--	1.7	1.5	--	1.5	1.8	--	1.8
Jus	1.1	0.1	1.3	1.2	0.2	1.3	1.4	0.2	1.6
CSC	1.0	--	1.0	1.0	--	1.0	1.2	--	1.2
CCT	0.4	0.4	0.7	0.4	0.3	0.7	0.4	0.4	0.8
AEIE	0.7	--	0.7	0.6	--	0.6	0.8	--	0.8
DN	0.6	--	0.6	0.7	--	0.7	0.8	--	0.8
CLO	0.5	--	0.5	0.7	--	0.7	0.8	--	0.8
Autres	2.8	1.5	4.3	2.8	1.4	4.2	3.2	1.5	4.6
TOTAL	182.4	37.8	220.2	250.5	45.7	296.2	233.7	51.9	285.6

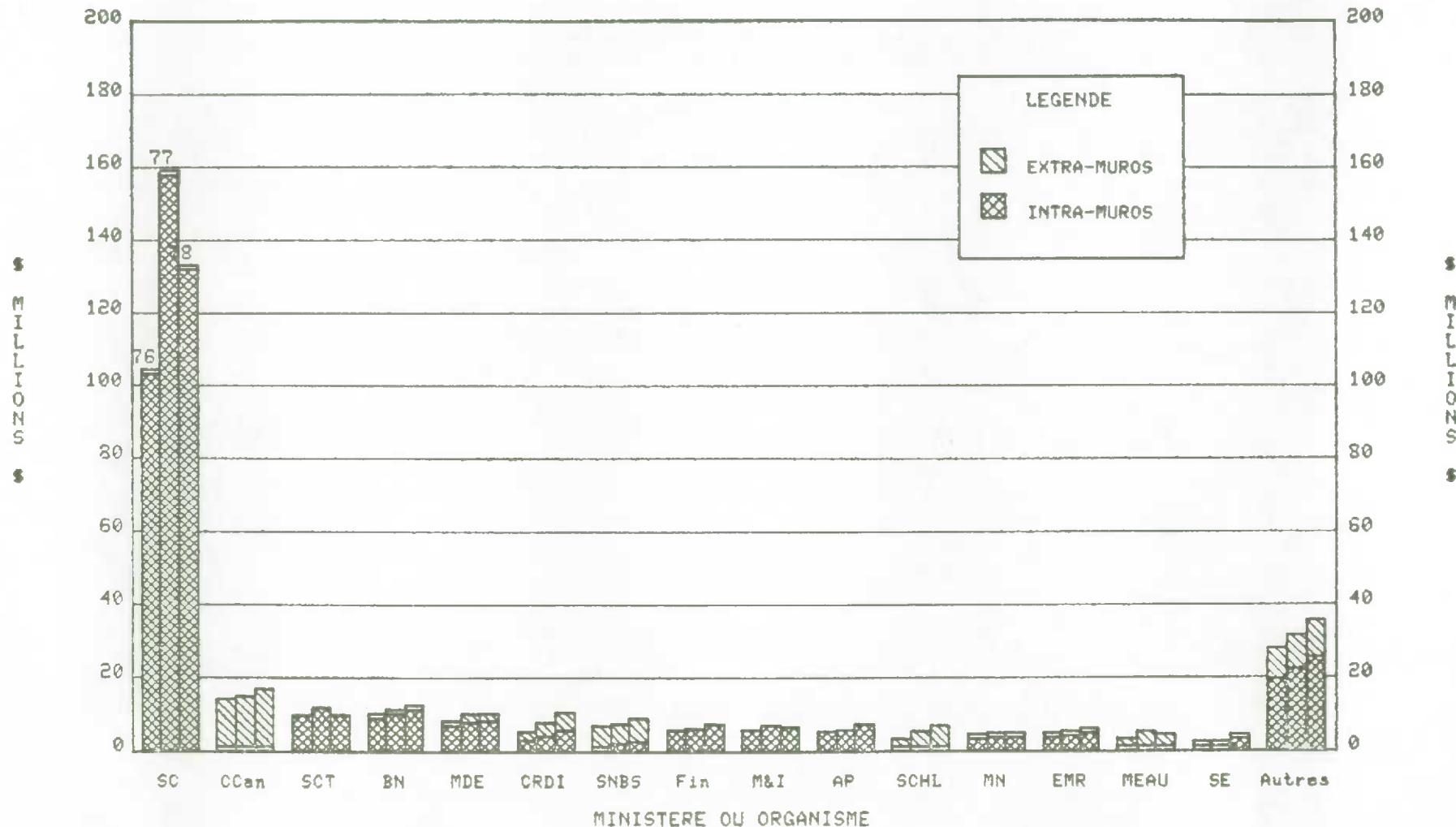
** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

HISTOGRAMME 45

SCIENCES HUMAINES

DEPENSES FEDERALES INTRA-MUROS ET EXTRA-MUROS EN ACTIVITES SCIENTIFIQUES CONNEXES

PAR MINISTERE OU ORGANISME, EN 1975-1978



** DEPENSES INTRA-MUROS NE COMPRENNENT PAS LES COÛTS AUTRES QUE LES PROGRAMMES

TABLEAU 46
SCIENCES HUMAINES

DEPENSES COURANTES FEDERALES EN ACTIVITES SCIENTIFIQUES CONNEXES

PAR ACTIVITE, PAR MINISTERE OU ORGANISME, EN 1975-1978

(\$ MILLIONS)

ACTIVITE	MINISTRE OU ORGANISME	1975-76		1976-77		1977-78	
		\$	%	\$	%	\$	%
COLLECTE DE DONNEES	SC	97.6	(81.5)	148.5	(86.8)	122.0	(81.6)
	MDE	3.5	(2.9)	3.1	(1.8)	3.9	(2.6)
	MN	2.4	(2.0)	2.4	(1.4)	2.7	(1.8)
	M&I	1.7	(1.4)	2.1	(1.2)	2.0	(1.3)
	R-C	1.7	(1.4)	1.9	(1.1)	2.1	(1.4)
	AE	2.4	(2.0)	1.4	(0.8)	1.6	(1.1)
	Trav	1.7	(1.4)	1.5	(0.9)	1.8	(1.2)
	SE	0.8	(0.6)	1.4	(0.8)	2.5	(1.7)
	SNBS	1.4	(1.2)	1.1	(0.6)	1.4	(0.9)
	SCT	1.1	(0.9)	1.2	(0.7)	1.0	(0.7)
	Autres	5.5	(4.6)	6.6	(3.8)	8.6	(5.7)
TOTAL		119.8	(100.0)	171.2	(100.0)	149.6	(100.0)
SERVICES DE RENSEIGNE- MENT	BN	8.8	(25.4)	10.3	(24.7)	11.5	(23.8)
	AP	5.3	(15.3)	5.6	(13.5)	7.1	(14.8)
	SC	3.9	(11.2)	6.5	(15.6)	7.0	(14.6)
	CRDI	2.3	(6.5)	3.5	(8.5)	4.9	(10.2)
	CCan	2.8	(8.1)	3.0	(7.3)	3.5	(7.2)
	MDE	2.9	(8.2)	3.6	(8.7)	2.7	(5.5)
	MN	2.0	(5.8)	2.2	(5.3)	2.3	(4.9)
	SNBS	0.9	(2.6)	1.1	(2.7)	1.7	(3.6)
	Autres	5.9	(17.0)	5.7	(13.8)	7.3	(15.2)
	TOTAL	34.8	(100.0)	41.5	(100.0)	48.1	(100.0)
ETUDES ECONOMIQUES ET DE LA FAISIBILITE	MEAU	1.0	(17.3)	1.5	(16.1)	1.4	(12.8)
	MDE	0.2	(3.9)	1.2	(12.9)	2.0	(17.4)
	MDT	0.6	(11.1)	1.2	(12.4)	1.4	(12.8)
	SNBS	1.1	(20.9)	0.9	(9.0)	1.1	(9.8)
	SC	---	(---)	1.0	(10.6)	1.1	(9.8)
	EMR	0.6	(11.1)	0.7	(7.1)	0.8	(6.8)
	M&I	0.5	(8.9)	0.6	(6.2)	0.6	(4.9)
	SCHL	0.3	(5.3)	0.5	(5.2)	0.6	(5.4)
	Autres	1.2	(21.5)	2.0	(20.5)	2.3	(20.3)
	TOTAL	5.5	(100.0)	9.6	(100.0)	11.3	(100.0)

ETUDES OPERATIONEL. ET DE LA POLITIQUE	SCT	8.7	(24.1)	9.8	(20.9)	8.4	(17.6)
	Fin	4.2	(11.6)	4.7	(10.0)	5.4	(11.4)
	M&I	3.3	(9.3)	3.9	(8.3)	3.7	(7.7)
	MEST	2.2	(6.1)	2.9	(6.3)	3.5	(7.4)
	MDC	2.3	(6.4)	2.9	(6.1)	3.0	(6.3)
	EMR	1.9	(5.2)	2.1	(4.5)	2.4	(5.0)
	MEAU	1.7	(4.6)	2.6	(5.6)	1.5	(3.1)
	MDE	1.2	(3.2)	2.4	(5.1)	1.7	(3.7)
	Autres	10.7	(29.5)	15.6	(33.2)	18.0	(37.9)
	TOTAL	36.1	(100.0)	47.0	(100.0)	47.5	(100.0)

AIDE A L'EDUCATION	CCan	9.9	(52.2)	10.8	(54.7)	12.3	(58.1)
	SNBS	2.7	(14.1)	2.4	(12.0)	2.5	(11.7)
	ACDI	1.7	(8.9)	1.6	(8.3)	1.8	(8.5)
	AE	1.6	(8.6)	1.2	(6.1)	1.4	(6.8)
	SE	1.4	(7.1)	1.2	(6.2)	1.1	(5.0)
	SCHL	0.9	(4.8)	1.1	(5.6)	1.2	(5.7)
	MEAU	0.3	(1.6)	0.8	(4.0)	--	(--)
	CRDI	0.2	(1.1)	0.2	(1.2)	0.4	(1.8)
	Autres	0.3	(1.6)	0.4	(1.9)	0.5	(2.2)
	TOTAL	19.0	(100.0)	19.8	(100.0)	21.1	(100.0)

ADMIN. DE PROGRAMMES EXTRA-MURS	CRDI	1.9	(50.9)	3.1	(54.4)	4.0	(60.3)
	SCHL	0.6	(15.4)	1.0	(17.2)	1.0	(15.0)
	CCan	0.6	(16.5)	0.9	(15.1)	1.0	(14.8)
	MDT	0.3	(7.4)	0.3	(5.8)	0.2	(2.5)
	Autres	0.4	(9.7)	0.4	(7.5)	0.5	(7.4)
	TOTAL	3.8	(100.0)	5.6	(100.0)	6.6	(100.0)

DEPENSES EN CAPITAL	SC	0.7	(55.7)	1.0	(69.7)	0.7	(48.2)
	AP	0.1	(5.4)	--	(--)	0.4	(29.3)
	MDE	0.2	(12.2)	0.1	(7.8)	0.1	(6.1)
	MN	0.1	(6.3)	0.1	(6.9)	0.1	(6.0)
	Autres	0.3	(20.3)	0.2	(14.2)	0.1	(10.3)
	TOTAL	1.2	(100.0)	1.5	(100.0)	1.4	(100.0)

** DEPENSES INTRA-MURS NE COMPRENNENT PAS LES COUTS AUTRES QUE LES PROGRAMMES

I PORTÉE ET LIMITES DES DONNÉES

Les chiffres que renferme le présent document sont ceux des dépenses décrites dans le budget fédéral aux postes des activités scientifiques déclarées par les ministères lors des enquêtes en vue de la préparation du Budget principal des dépenses et des prévisions sur les programmes. Même si ces activités entraînent d'autres coûts indirects ou "non liés aux programmes", ils ne font pas habituellement partie du programme ministériel particulier auquel se rapportent les dépenses "scientifiques". Ces coûts "non liés aux programmes" peuvent comprendre des services offerts à d'autres ministères, des frais d'installation ou la partie des coûts de l'administration générale des programmes qui se rapporte aux activités scientifiques.

Ces coûts non liés aux programmes peuvent être inclus ou non, tout dépend des buts que s'est fixé l'auteur de l'analyse. Il peut être préférable de ne traiter que des dépenses directement liées aux programmes, particulièrement dans les domaines de l'analyse budgétaire. Cet élément est nécessaire afin de faciliter la comparaison permanente entre les dépenses pour les activités scientifiques et technologiques et les autres genres de dépenses dans le secteur fédéral. Par exemple, si on applique aux activités scientifiques et technologiques, les coûts non liés des programmes d'administration, il est nécessaire de faire des rajustements parallèles pour les autres domaines mentionnés au cours de la préparation du budget. La présente publication renferme des dépenses qui excluent les coûts non liés aux programmes, afin de permettre d'effectuer ces genres d'analyses.

Si l'on veut déterminer l'importance des activités scientifiques et technologiques du gouvernement fédéral et comparer ces renseignements avec ceux d'autres secteurs ou d'autres pays, il serait alors préférable d'inclure les coûts non liés aux programmes. Dans ce contexte, la somme des dépenses directes et des coûts non liés aux programmes représente le coût "total" des travaux scientifiques et technologiques du gouvernement fédéral. Si l'on prend les précautions nécessaires, ces chiffres peuvent être comparés avec le total dépensé par l'industrie pour laquelle tous les coûts directs et indirects peuvent être déclarés. A des fins de telles analyses, Statistique Canada, entre autres, fournit dans ses publications, des données sur les dépenses qui comprennent les coûts non liés aux programmes, notamment celles intitulées Activités de l'administration fédérale en sciences naturelles (Nº de catalogue 13-202) et Activités de l'administration fédérale en sciences humaines (Nº de catalogue 13-205). Les dépenses intra-muros que renferment ces publications seront donc plus élevées que celles de la présente publication et la différence sera celle du montant des coûts non liés aux programmes. Les dépenses extra-muros ne sont pas touchées et seront les mêmes dans les deux genres de publications. Le montant total pour les dépenses intra-muros et extra-muros variera naturellement selon ces deux séries de publications et la différence sera celle du montant des coûts non liés aux programmes.

II DÉFINITIONS

Les ministères sont priés de faire des soumissions distinctes pour les éléments des sciences naturelles et des sciences humaines contenus dans leurs soumissions relatives au budget des dépenses.

Les sciences naturelles englobent toutes les disciplines appartenant aux sciences physiques, mathématiques, de la vie, de l'environnement et du génie. Les SCIENCES DE LA VIE comprennent les sciences biologiques qui étudient l'origine, le développement, la structure, la fonction et l'interaction entre les organismes vivants et les sciences cliniques médicales qui se concentrent sur l'usage du savoir scientifique aux fins d'identification, de traitement et de guérison de maladies. Les SCIENCES PHYSIQUES visent à une compréhension de l'univers matériel et de ses phénomènes. Y sont compris l'astronomie, la chimie, la physique et les autres sciences physiques. Les SCIENCES DE L'ENVIRONNEMENT étudient les propriétés du système solaire affectant la survie et le bien-être de l'homme. Y sont compris les sciences atmosphériques et géologiques, l'océanographie et les autres sciences de l'environnement. Les SCIENCES MATHÉMATIQUES utilisent un raisonnement logique à l'aide de symboles et visent le développement de méthodes d'opération utilisant de tels symboles. Les SCIENCES DU GÉNIE se concentrent sur des études visant l'élaboration de principes en génie ou l'utilisation pratique de principes scientifiques particuliers.

Le terme sciences humaines est synonyme de sciences sociales et humanités et englobent donc ainsi toutes les disciplines qui comprennent l'étude des actions et des conditions humaines ainsi que les mécanismes sociaux, économiques et institutionnels touchant les humains. Les sciences humaines comprennent des disciplines telles que:

Anthropologie	Bibliothéconomie
Administration des entreprises et commerce	Philosophie
Communications	Sciences politiques
Criminologie	Psychologie
Démographie	Sciences religieuses
Économie	Service social
Géographie	Sociologie
Histoire	Études urbaines et régionales
Langues, littérature et linguistique	
Droit	

Pour certains programmes, il est difficile de faire la distinction entre les sciences humaines et les sciences naturelles. Il faut cependant identifier l'affectation précise des fonds selon l'orientation prépondérante des projets et le domaine de spécialisation du personnel employé.

ACTIVITÉS SCIENTIFIQUES

SCIENCES NATURELLES:

Recherche et développement expérimental: la recherche et le développement expérimental (R-D) sont considérés comme un travail systématique de création qui a pour objet d'accroître les connaissances scientifiques et techniques et de leur trouver de nouvelles applications. La principale caractéristique de toute R-D est un élément appréciable de nouveauté - nouvelles connaissances (nouvelles données en rapport avec des hypothèses existantes; nouvelles hypothèses découlant de nouvelles données: réévaluation de données connues) ou nouveaux produits ou procédés. Cela ne comprend pas le travail de routine de rassemblement de renseignements pour fins administratives

Le concept de recherche et développement expérimental comprend un très large éventail d'activités: depuis le chercheur indépendant qui tente de satisfaire sa curiosité personnelle jusqu'à la vaste équipe pluri-disciplinaire qui travaille à la construction d'un prototype.

R-D intra-muros: R-D effectuée par le personnel du programme. Ce poste peut comprendre la R-D effectuée pour un autre programme, contre remboursement des frais.

Contrats de R-D: Paiements à des organismes ou à des particuliers hors du gouvernement fédéral pour des travaux de R-D qui bénéficieront directement au programme. Un contrat de R-D est dit « intra-muros » lorsque l'activité se déroule dans des locaux que fournit le programme.

Subventions à la R-D: Subventions à des organismes ou à des particuliers pour des travaux de R-D qui profiteront au bénéficiaire de la subvention. Ces fonds figurent habituellement sous la désignation « Subventions et contributions » dans les prévisions budgétaires.

Bourses de recherche: Subventions à des particuliers pour une formation avancée en recherche et pour l'acquisition d'expérience. Les sommes qui visent principalement à défrayer les bénéficiaires du coût des études doivent être inscrites comme « aide à l'éducation ».

Activités scientifiques connexes: elles sont reliées à la recherche-développement et comprennent la collecte de données scientifiques, les renseignements scientifiques, l'essai et la normalisation, les études de faisabilité et l'aide à l'éducation.

Collecte de données scientifiques: c'est le rassemblement, le traitement et l'analyse de données sur les phénomènes naturels. Ces données proviennent généralement d'enquêtes, d'analyses routinières de laboratoire ou de simples rassemblements de fiches opérationnelles. Cela comprend aussi la collecte de spécimens pour les musées et les jardins zoologiques ou botaniques. Les données recueillies surtout à des fins d'administration interne sont exclues.

Les données recueillies dans le cadre d'un programme de recherche en cours ou proposé n'entrent pas en compte; elles font plutôt partie du travail de recherche. De même, on considère comme R-D toute mise au point quantifiable de nouvelles techniques de collecte de données.

Les relevés géologiques, hydrographiques, océanographiques et topographiques font partie de ces collectes de données scientifiques de routine, tout comme l'entretien des appareils météorologiques et les relevés sur la faune et les poissons.

Renseignements scientifiques: toute information ou connaissance résultant d'activités scientifiques. On y inclut les coûts du fonctionnement des bibliothèques scientifiques et techniques et de la diffusion d'information ou de connaissances scientifiques dans des revues techniques et scientifiques, livres, bulletins, bandes magnétiques, expositions et films et à l'aide de conférences et de réunions scientifiques.

Essai et normalisation: ce sont les travaux réalisés dans le but d'établir des normes nationales pour les matériaux, appareils, produits et procédés, ou dans le but de définir des normes secondaires et de préparer les tests de qualité non routiniers nécessaires à la détermination des caractéristiques des matériaux, appareils, produits et procédés. La mise au point quantifiable de toute nouvelle mesure pour les normes, ou les nouvelles méthodes pour mesurer ou faire des tests, font partie de la R-D.

Études de faisabilité: ce sont des études techniques faites sur des projets de génie envisagés, afin de fournir les renseignements supplémentaires nécessaires avant que la décision de les réaliser ne soit prise.

Aide à l'éducation: ils couvrent les subventions versées à des particuliers ou à des institutions dans le but de favoriser la formation d'étudiants en technologie et en sciences naturelles. Les sommes accordées pour aider le bénéficiaire dans ses travaux de recherche sont considérées comme des fonds de R-D (subventions ou bourses de recherche).

Administration des programmes extra-muros: les frais des services définis qui gèrent subventions et contrats destinés au champ d'activités scientifiques effectués en dehors du cadre du gouvernement fédéral.

SCIENCES HUMAINES:

Recherche: dans le contexte des sciences humaines, ce mot signifie un travail d'innovation et d'explication effectué de manière méthodique en vue de l'acquisition de connaissances nouvelles sur l'homme, ses actions et ses institutions, et d'une nouvelle application de ces connaissances. L'objectivité, la vérification des observations et des évaluations et l'analyse logique sont les caractéristiques de la recherche. Pour faire l'objet d'une recherche, le projet doit comporter dans une large mesure des éléments de nouveauté, d'incertitude et d'innovation, suivre un plan bien défini d'exécution et donner lieu à un rapport écrit sur les résultats obtenus et les méthodes employées. La recherche couvre un vaste champ d'activités qui peuvent avoir de grandes dissemblances du point de vue de la conception théorique, des méthodes d'approche, des fonctions et des objectifs.

Activités scientifiques connexes: les activités scientifiques connexes précédent, complètent et prolongent le travail de recherche et comprennent la collecte de données scientifiques, les services de renseignements, les études sur l'économie et la faisabilité, les études sur les opérations et la politique et l'aide à l'éducation.

La collecte de données scientifiques consiste dans la compilation de traitement, la comparaison et l'analyse de renseignements sur les phénomènes sociaux et humains. Ces renseignements peuvent être rassemblés grâce à des études courantes et à des enquêtes ordinaires et spéciales ou à la compilation spéciale de dossiers existants. Cet article de dépense comprend le coût de la publication habituelle de ces données mais non celui du rassemblement de données destinées essentiellement aux fins de la gestion interne. Le rassemblement de données dans le cadre d'un travail de recherche est considéré comme de la recherche, tout comme les projets visant l'élaboration de nouvelles méthodes de rassemblement. D'autre part, les études de méthodes et de programmes de rassemblement de données, menées pour en évaluer l'efficacité et la rentabilité, sont considérées comme des études opérationnelles. Ainsi, le rassemblement de données scientifiques comprend les recensements quinquennaux, les enquêtes sur l'emploi et la production et l'analyse ordinaire de données économiques venant de l'étranger.

Les services de renseignements comprennent le stockage, le classement et la diffusion de renseignements et de connaissances résultant des activités scientifiques en sciences humaines. Les coûts attribuables à cette activité comprennent l'aide aux revues scientifiques (sous forme de subventions et d'abonnements), les subventions pour la publication de thèses de doctorat et d'autres documents de recherche, l'aide aux sociétés scientifiques et professionnelles, expositions scientifiques, films, conférences, colloques et bibliothèques scientifiques.

Les études sur l'économie et la faisabilité sont l'objet d'une étude des caractéristiques socio-économiques et des incidences d'une situation donnée (ex. étude de viabilité d'un complexe pétrochimique dans la région des Prairies, analyse des coûts-avantages d'un éventuel centre de pâtes et papier au Manitoba). Ces études se limitent généralement à un problème particulier et exigent l'application de techniques et de méthodes établies en sciences humaines.

Les études sur les opérations et la politique impliquent l'analyse et l'évaluation des programmes, principes directeurs et opérations des ministères ainsi que des champs d'activités des services chargés de l'analyse et de la surveillance constantes des événements extérieurs (ex. statistiques économiques à l'étranger, renseignements sur la défense et la sécurité) ainsi que les études destinées à fournir un fichier central de données pour l'élaboration de politiques. Les travaux des Commissions royales d'enquêtes du gouvernement ainsi que ceux de ses groupes de travail entrent souvent dans cette catégorie.

L'aide à l'éducation, qui consiste en des subventions à des personnes ou à des institutions, est particulièrement destinée à appuyer l'enseignement des sciences humaines. Les subventions accordées principalement au titre des activités de recherche sont assimilées à l'aide à la recherche; c'est le cas, par exemple, des bourses de perfectionnement postdoctoral.

Les conditions qui régissent les subventions de recherche et développement, les contrats intra-muros de R-D, les bourses de recherche, l'aide à l'éducation et l'administration des programmes extra-muros font l'objet de définitions dans le précédent chapitre sur les sciences naturelles. On peut appliquer des concepts similaires aux secteurs des sciences humaines. On trouvera une description plus détaillée du champ d'activité scientifique dans les guides du questionnaire des enquêtes de Statistique Canada intitulés "Activités de l'administration fédérale en sciences humaines" et "Activités de l'administration fédérale en science naturelles". On peut se procurer un exemplaire de ces guides auprès de Mlle L. Lynch, Division de l'éducation, des sciences et de la culture, Statistique Canada, au numéro 995-9692.

EXÉCUTANTS

L'exécutant désigne l'institution qui effectue l'activité scientifique. La distinction fondamentale a trait à l'exécution intra-muros et extra-muros.

- a) **Les exécutants intra-muros** sont les ministères et les organismes fédéraux qui effectuent des travaux scientifiques dans leurs propres établissements en faisant appel à leur propre personnel. L'exécution intra-muros comprend les dépenses en matériel et en approvisionnements qui sont utilisés dans ces établissements, ainsi que le coût de la gestion des programmes scientifiques intra-muros et extra-muros.
- b) **Les exécutants extra-muros** sont:

L'industrie canadienne c'est-à-dire les entreprises commerciales et publiques. Cette catégorie comprend les services publics, les entreprises appartenant à l'État (par exemple, la société Polymer), ainsi que les institutions et les associations à but non lucratif principalement au service de l'industrie, qui ne sont pas dirigées par une autre institution de ce secteur (par exemple, l'Institut de recherches sur les pâtes et papier). Les instituts de recherche industrielle affiliés à une université appartiennent au secteur des universités canadiennes.

Les universités canadiennes: comprennent les instituts affiliés à ces établissements, dirigés ou dotés en personnel par des universités.

Les institutions canadiennes à but non lucratif: c'est-à-dire les fondations charitables, les organismes volontaires de santé, les sociétés scientifiques et professionnelles et d'autres organismes établis à des fins non lucratives. Les institutions à but non lucratif desservant un autre secteur ou sous son contrôle sont compris dans ce secteur.

Autres exécutants canadiens: les fondations et conseils de recherche provinciaux, les gouvernements provinciaux et municipaux, et les particuliers ne travaillant pas dans un autre secteur.

Étranger: les gouvernements et sociétés étrangers (y compris les filiales d'entreprises canadiennes à l'étranger) et les étrangers non-résidents et les Canadiens étudiant ou enseignant à l'étranger.