

THE AUSTRALIAN GOVERNMENT'S 2011-12 SCIENCE, RESEARCH AND INNOVATION BUDGET TABLES

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Background and Explanatory Notes

(1) The Science, Research and Innovation Budget Tables provide an overview of whole-of-government support for science, research and innovation by the Australian Government over a 10 year period.

(2) The current tables generally retain the format used in earlier years, thus providing continuity and comparability with earlier budget tables. The groupings in Table 1 are classified according to sectors of the economy. This is consistent with the nomenclatural conventions recommended in the Frascati Manual (2002, OECD).

(3) The tables also conform as closely as possible with the standards for reporting government budget appropriations and outlays on research and development as recommended in the 2002 edition of the Frascati Manual published by the OECD. Accordingly, extramural expenditures report only current costs and capital expenditures. It is important to note that the expenditure categories reflect the funder's perspective, which are then aggregated according to the sectors of performance.

(4) The support for science, research and innovation programs, administered on behalf of the Australian Government, may be provided either through annual appropriations (see Table 3) or through special appropriations (see Table 4). All expenditures reported in these tables have been recorded in accordance with the principles of accrual accounting.

(5) Table 1 summarises the total Australian Government support by sector of performance. Tables 2, 3 and 4 provide a detailed disaggregation of the total expenditure identified in Table 1 by program, which can be identified by the reference numbers. Table 5 identifies the allocation of science, research and innovation support by socio-economic objectives. To assist with the use of the tables, definitions are provided below for key terms that are used in these tables.

(6) The financial data have been supplied by the departments and agencies responsible for administering the programs listed in the tables. Previous estimates are adjusted by departments and agencies as data becomes available on actual expenditure and R&D content of programs.

Definitions

Budget and Special Appropriations. Budget appropriations refer to funding appropriated annually, in particular, under *Appropriation Act No.1* and *No.2* of a given financial year (additional funding is appropriated under *Appropriation Acts No.3* and *No.4*). Special appropriations refer to funding appropriated through provisions in other legislation such as the *Higher Education Support Act (2003)*, the *Income Tax Assessment Act (1936)*, the *Industry Research and Development Act (1986)* and the *Nation-building Funds Act (2008)*.

Intramural Expenditure. Intramural expenditures are all expenditures for R&D performed within a statistical unit or sector of the economy during a specific period, whatever the source of funds (Frascati Manual, 2002, OECD). For the purposes of these tables, Intramural expenditure is expenditure on R&D performed within the Government sector.

Extramural Expenditure. Extramural expenditures are sums that a unit, organisation or sector reports having paid or committed to pay to another unit, organisation or sector for the performance of R&D during a specific period. This includes acquisition or R&D performed by other units and grants given to others for performing R&D (Frascati Manual, 2002, OECD).



TABLE 1. SUMMARY OF AUSTRALIAN GOVERNMENT SUPPORT FOR SCIENCE, RESEARCH AND INNOVATION THROUGH THE BUDGET AND OTHER APPROPRIATIONS - ACTUAL COST IN YEAR INCURRED ^{a,b}

Ref. no. ^a										Estimated	Budget
	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Actual	Estimate
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
INTRAMURAL EXPENDITURE ON SCIENCE, RESEARCH AND INNOVATION ^c											
Australian Government Research Activities											
· CSIRO	1	532.1	568.6	577.1	593.9	610.1	663.1	675.8	714.8	730.3	724.9
· Defence Science and Technology Organisation	2	283.4	293.9	314.4	349.1	406.0	401.0	374.9	403.2	444.4	433.7
· Other R&D Activities	3	451.2	574.8	498.3	480.8	499.6	581.8	572.5	603.7	621.2	602.2
SUB-TOTAL		1,266.7	1,437.4	1,389.8	1,423.9	1,515.7	1,645.9	1,623.2	1,721.7	1,796.0	1,760.8
EXTRAMURAL EXPENDITURE ON SCIENCE, RESEARCH AND INNOVATION ^c											
Business Enterprise Sector											
· Industry R&D Tax Incentives ^d	4	587.0	665.0	729.0	867.0	960.0	1,096.0	1,434.0	1,713.0	1,705.0	1,770.0
· Other R&D Support	5	148.3	219.5	175.0	191.1	212.2	233.8	179.0	63.5	35.0	6.0
· Other Innovation Support	6	264.7	266.9	223.7	242.4	255.1	267.3	285.4	568.4	433.2	482.6
SUB-TOTAL		999.9	1,151.4	1,127.7	1,300.5	1,427.3	1,597.1	1,898.4	2,344.9	2,173.2	2,258.6
Higher Education Sector											
· Australian Research Council	7	298.3	399.6	480.9	544.4	570.3	571.8	585.9	652.8	708.7	810.2
· Performance Based Block Funding ^e	8	1237.24	1322.48	1332.96	1383.25	1400.40	1391.68	1408.43	1513.96	1661.44	1775.30
· Other R&D Support ^e	9	437.7	445.1	3.1	132.3	2.8	4.2	9.6	192.7	213.0	153.2
SUB-TOTAL		1,973.2	2,167.1	1,816.9	2,060.0	1,973.5	1,967.7	2,004.0	2,359.5	2,583.2	2,738.7
Multisector ^f											
· National Health and Medical Research Council and Other Health	10	291.6	365.7	380.6	674.9	962.6	618.6	936.8	896.4	1,211.7	1,347.1
· Cooperative Research Centres	11	148.6	201.8	194.5	208.1	189.3	211.9	182.3	178.9	172.6	165.2
· Rural	12	204.5	226.3	225.7	234.0	238.5	241.4	245.7	228.8	265.0	240.7
· Energy and the Environment	13	33.1	62.3	40.7	46.0	75.6	87.6	192.4	257.9	292.1	436.8
· Other Science Support	14	49.5	61.6	74.8	95.8	174.9	178.2	185.4	384.3	583.5	436.0
SUB-TOTAL		727.3	917.7	916.2	1,258.8	1,640.9	1,337.8	1,742.6	1,946.2	2,525.0	2,625.9
TOTAL AUSTRALIAN GOVERNMENT SUPPORT		4,967.2	5,673.6	5,250.7	6,043.2	6,557.3	6,548.5	7,268.1	8,372.3	9,077.3	9,384.0

Notes:

a. The financial data presented in this table are an aggregate of the expenditure data sourced from Tables 2, 3 and 4. Reference numbers in Column 2 identify their respective disaggregated source data in Tables 2, 3 and 4.

b. A breakdown of the total expenditure by portfolio is summarised in the table below. Tax measures are included in the relevant policy portfolio rather than Treasury.

c. A definition of the expenditure categories is provided on page 1

d. The amounts indicated for Industry R&D Tax Incentives are estimates only

e. Following the original release funding has been recategorised from Higher Education Sector - Other R&D to Higher Education Sector - Performance Based Block Funding

f. 'Multisector' includes programs that may be accessed by several sectors, including Australian Government agencies.

Portfolio Summary

PORTFOLIO										Estimated	Budget
	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Actual	Estimate
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
AGRICULTURE, FISHERIES AND FORESTRY	217.2	247.3	250.3	262.9	264.4	265.4	264.5	255.9	290.0	255.8	255.8
ATTORNEY-GENERAL	5.9	6.2	6.0	5.6	7.3	9.6	9.5	8.8	9.4	7.9	7.9
BROADBAND, COMMUNICATIONS AND THE DIGITAL ECONOMY	10.3	11.3	17.2	23.5	24.0	26.8	27.3	25.4	25.9	25.0	25.0
CLIMATE CHANGE AND ENERGY EFFICIENCY	3.2	3.6	6.9	6.7	9.4	12.0	18.5	11.8	15.9	24.3	24.3
DEFENCE	283.4	293.9	314.7	349.4	406.3	403.5	386.0	417.2	463.1	456.3	456.3
EDUCATION, EMPLOYMENT AND WORKPLACE RELATIONS	585.0	585.0	154.9	165.2	166.6	167.7	170.1	171.1	174.2	178.9	178.9
FAMILIES, HOUSING, COMMUNITY SERVICES AND INDIGENOUS AFFAIRS	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.3	0.3	0.1	0.1
FOREIGN AFFAIRS AND TRADE	41.3	41.2	42.8	46.4	51.3	56.8	56.1	72.8	98.1	96.2	96.2
HEALTH AND AGEING	291.6	365.7	380.6	674.9	962.6	620.7	941.1	898.4	1,213.7	1,349.1	1,349.1
HUMAN SERVICES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
INFRASTRUCTURE AND TRANSPORT	1.8	1.9	1.9	2.2	7.1	9.1	7.0	3.4	5.0	4.2	4.2
INNOVATION, INDUSTRY, SCIENCE AND RESEARCH	3,297.5	3,852.7	3,827.4	4,238.0	4,335.5	4,615.5	4,939.6	5,983.1	6,253.4	6,413.1	6,413.1
PRIME MINISTER AND CABINET	1.0	1.2	1.8	3.0	3.0	6.5	6.2	5.6	5.1	3.9	3.9
RESOURCES, ENERGY AND TOURISM	88.8	96.9	102.6	113.6	131.5	168.2	250.7	328.7	349.0	392.3	392.3
SUSTAINABILITY, ENVIRONMENT, WATER, POPULATION AND COMMUNITIES	140.2	166.6	143.5	151.8	188.4	186.5	191.2	187.8	172.2	174.9	174.9
TOTAL	4,967.2	5,673.6	5,250.7	6,043.2	6,557.3	6,548.5	7,268.1	8,372.3	9,077.3	9,384.0	9,384.0

TABLE 2. AUSTRALIAN GOVERNMENT RESEARCH ACTIVITIES - BUDGET EXPENDITURES^a

PORTFOLIO / ACTIVITY	Ref. no. ^a	2002-03 \$m	2003-04 \$m	2004-05 \$m	2005-06 \$m	2006-07 \$m	2007-08 \$m	2008-09 \$m	2009-10 \$m	Estimated	Budget
										Actual	Estimate
										2010-11 \$m	2011-12 \$m
AGRICULTURE, FISHERIES AND FORESTRY											
Australian Animal Health Laboratory	3	6.1	6.2	6.8	6.9	7.0	7.2	7.1	7.2	7.3	7.4
DEFENCE											
Defence Science and Technology Organisation ^b	2	283.4	293.9	314.4	349.1	406.0	401.0	374.9	403.2	444.4	433.7
FOREIGN AFFAIRS AND TRADE											
Australian Centre for International Agricultural Research	3	41.3	41.2	42.8	46.4	51.3	56.8	56.1	72.8	98.1	96.2
HEALTH AND AGEING											
Australian Radiation Protection and Nuclear Safety Agency	3	0.0	0.0	0.0	0.0	0.0	2.1	4.3	2.0	2.0	2.0
INNOVATION, INDUSTRY, SCIENCE AND RESEARCH											
Australian Astronomical Observatory ^c	3	3.9	4.0	4.1	4.6	4.7	4.8	4.9	9.0	10.2	10.3
Australian Institute of Aboriginal and Torres Strait Islander Studies ^d	3	1.8	1.8	1.9	1.9	1.8	1.8	2.1	2.0	2.4	2.2
Australian Institute of Marine Science	3	24.3	22.1	22.5	23.1	24.5	26.6	27.6	30.4	30.9	31.2
Australian Nuclear Science and Technology Organisation ^e	3	173.2	290.4	196.4	158.5	141.6	185.7	174.7	175.2	189.7	173.1
CSIRO	1	532.1	568.6	577.1	593.9	610.1	663.1	675.8	714.8	730.3	724.9
RESOURCES, ENERGY AND TOURISM											
Geoscience Australia	3	88.8	96.9	100.9	107.4	125.4	145.0	139.0	130.6	116.2	112.9
SUSTAINABILITY, ENVIRONMENT, WATER, POPULATION AND COMMUNITIES											
Antarctic Divisor	3	84.6	85.5	86.5	94.6	99.6	105.5	104.6	116.9	101.6	102.4
Bureau of Meteorology Research Activities	3	9.7	10.1	11.0	11.7	12.8	12.6	19.9	22.6	27.8	31.3
Great Barrier Reef Marine Park Authority	3	4.1	3.9	4.0	4.9	4.8	4.8	3.4	3.0	2.6	2.6
Supervising Scientist Division ^f	3	8.0	7.1	7.8	7.5	11.1	11.2	11.0	12.4	11.8	11.7
TOTAL		1,261.2	1,431.8	1,376.2	1,410.6	1,500.7	1,628.3	1,605.5	1,702.1	1,775.3	1,741.9

Notes:

- a. The financial data have been supplied and confirmed by the departments and agencies responsible for administering the programs listed in the Table. Reference numbers in Column 2 reconcile agency expenditures with their respective sector aggregates in Table 1.
- b. DSTO expenditures shown here are for direct expenses on the research program and exclude costs associated with overheads and administrative support provided by other Defence Groups
- c. Reported separately prior to the 2011-12 Science, Research and Innovation Budget Tables as the Anglo-Australian Observatory and the Anglo-Australian Telescope Board.
- d. In the 2011-12 tables, AIATSIS figures for all years have been re-cast to exclude overheads and other non-appropriation figures
- e. The fluctuations in the years 2007-08 onwards are timing issues relating to several large equity projects and two special purpose expense areas: disposition of spent fuel and ANSTO's decommissioning program.
- f. Formerly referred to as the Environmental Research Institute of the Supervising Scientist. From 2006-07, total Divisional expenses have been assessed as supporting research and innovation.

Figure 1. Percentage breakdown of Australian Government support for science, research and innovation by sector of performance in 2011-12

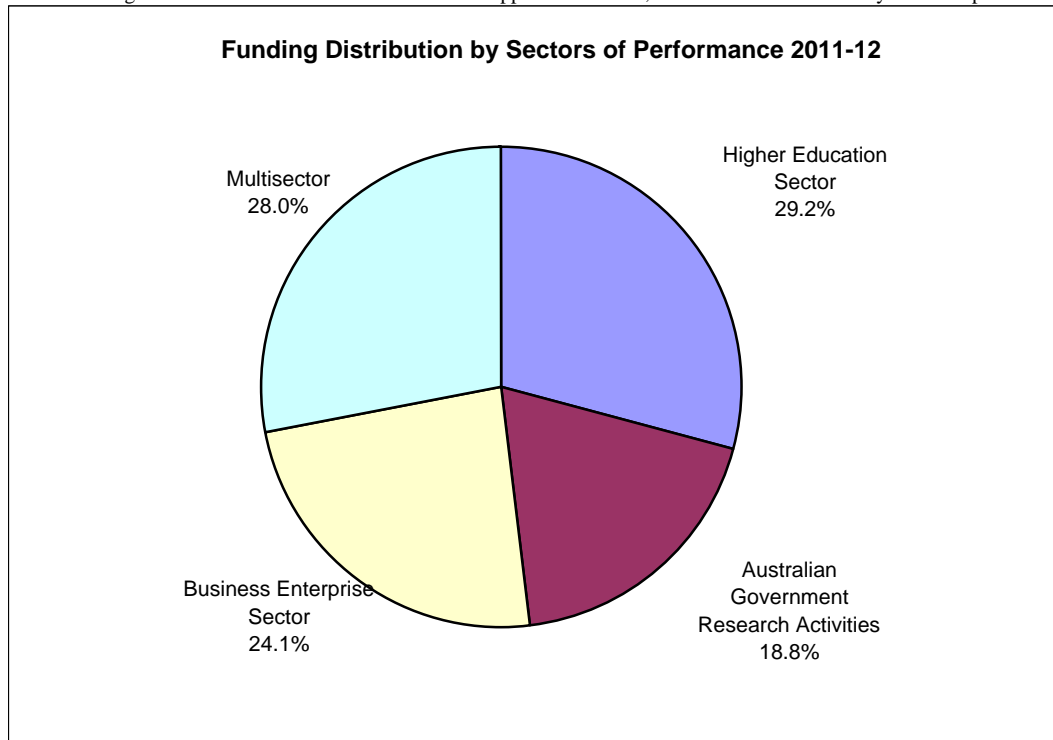


TABLE 3. R&D GRANTING PROGRAMS AND OTHER SUPPORT FOR SCIENCE, RESEARCH AND INNOVATION THROUGH THE BUDGET ^a

PROGRAM	Ref. no. ^a									Estimated	Budget
		2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Actual 2010-11	Estimate 2011-12
		\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
AGRICULTURE, FISHERIES AND FORESTRY											
Carbon Farming Initiative	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.3
Centres of Excellence - Biosecurity Risk Analysis and Research	14	0.0	0.0	0.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Centres of Excellence - National Food Industry Strategy	6	0.9	3.0	3.4	2.4	2.3	0.0	0.0	0.0	0.0	0.0
Climate Change Research Program	13	0.0	0.0	0.0	0.0	0.0	0.0	10.0	15.0	15.0	6.2
Food Innovation Grants - National Food Industry Strategy	6	1.9	8.9	10.8	15.4	13.1	13.1	0.0	0.0	0.0	0.0
Forest Industry Climate Change Research Fund	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	1.3	0.0
Land and Water Research	12	11.9	12.2	12.5	12.5	12.8	13.0	13.0	6.7	0.0	0.0
National Weeds and Productivity Research Program	12	0.0	0.0	0.0	0.0	0.0	0.0	3.1	4.1	4.0	4.0
New Industries Development Program	6	4.0	3.2	3.5	2.6	2.0	2.3	0.2	0.0	0.0	0.0
Regional Food Producers/Seafood Industry Innovation and Productivity	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	5.5	5.8
Rural Industries R&D Corporation	12	14.9	14.8	14.6	14.9	14.9	13.4	13.3	14.0	13.7	13.8
ATTORNEY-GENERAL											
Australian Institute of Criminology Research Program	3	5.5	5.6	5.4	4.9	6.7	9.0	9.0	8.4	9.0	7.4
BROADBAND, COMMUNICATIONS AND THE DIGITAL ECONOMY											
ICT Centre of Excellence	14	10.3	11.3	17.2	23.5	24.0	26.8	27.3	25.4	25.9	25.0
CLIMATE CHANGE AND ENERGY EFFICIENCY											
Australian Climate Change Science Program	13	0.0	0.0	6.7	6.6	8.3	8.3	8.8	7.8	7.8	7.8
Bilateral Climate Change Partnerships Program ^b	13	0.0	0.0	0.2	0.1	1.1	1.2	6.5	0.0	0.0	0.0
Carbon Farming Initiative	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	12.5
National Carbon Accounting System	13	3.2	3.6	0.0	0.0	0.0	2.5	3.2	0.0	0.0	0.0
National Carbon Accounting Toolbox	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0	4.0
DEFENCE											
Asia Pacific Civil Military Centre of Excellence Research and Lessons Learnt	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.1	1.2
Defence Materiel Organisation - Capability Technology Demonstrator - Extension Program	14	0.0	0.0	0.0	0.0	0.0	2.2	10.9	10.4	10.5	10.6
Defence Materiel Organisation - Defence Industry Innovation Centre	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	4.6	4.8
Jet Fuel Exposure Syndrome Study	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.9
EDUCATION, EMPLOYMENT AND WORKPLACE RELATIONS											
Bond University - Grant for Clinical Education and Research Centre Building	9	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0
Bond University - Grant for Health Science and Medicine Building	9	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
FAMILIES, HOUSING, COMMUNITY SERVICES AND INDIGENOUS AFFAIRS											
ARC Linkage Grants - FaHCSIA Cash Contributions	9	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.3	0.3	0.1
HEALTH AND AGEING											
Adult Stem Cell Research Centre	10	0.0	0.0	0.0	0.0	5.0	5.0	5.0	5.0	0.0	0.0
Attacking Lung Cancer	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.4	1.5
Australian National Preventive Health Agency Research Fund	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8
Cancer Clinical Trials	10	0.0	0.0	0.0	0.0	5.2	5.4	5.5	5.5	5.5	5.6
Cancer Data	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
Cancer Research	10	0.0	0.0	0.0	3.0	5.1	5.7	5.9	4.4	4.4	4.4
Cooperative Research Centre for Aboriginal and Torres Strait Islander Health	10	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Health Sciences - Australian Longitudinal Study on Women's Health ^c	10	0.9	1.7	1.1	1.4	1.4	1.4	1.4	1.3	2.4	3.1
Indigenous Public Health Workforce Capacity Building Project, Uni of Melbourne (ONEMDA) and Deakin University Institute of Koori Education	10	0.0	0.0	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
Investing in Hearing Research ^d	10	0.0	0.0	0.0	0.0	0.0	0.5	1.2	1.4	3.0	2.3
Jigsaw Foundation - Support for Craniofacial Surgery	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0
Medical Research Infrastructure Projects	10	0.0	31.2	0.0	215.0	435.8	0.0	64.8	100.7	223.8	201.5
National Cancer Plan - Boost Cancer Research	10	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.2	5.0	0.0
National Centre for Immunisation Research and Surveillance	10	0.2	0.2	0.2	0.3	0.3	0.3	0.7	0.7	0.8	0.8
National Illicit Drug Strategy Research	10	0.0	0.0	0.2	0.2	0.7	0.5	0.3	0.5	0.0	0.0
National Public Health Communicable Disease Control - Research Centre	10	0.0	0.0	0.0	8.2	8.2	8.5	8.9	9.0	9.2	9.2
NHMRC Research Grants ^e	10	290.5	332.4	378.2	424.6	471.7	560.7	699.3	707.1	766.3	791.7
Pandemic Vaccine Accelerated Development	10	0.0	0.0	0.0	2.0	2.5	2.5	0.0	0.0	0.0	0.0
Primary Care Policy, Innovation and Research	10	0.0	0.0	0.0	14.6	14.2	16.4	14.6	16.3	15.5	15.8
Priority Medical Research	10	0.0	0.0	0.0	0.0	5.0	5.0	5.0	5.9	0.9	0.9
Support for Diabetes Research	10	0.0	0.0	0.2	4.9	6.8	6.0	9.8	4.4	0.0	0.0
Two Dedicated Prostate Cancer Research Centres	10	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.0	3.0	3.5
University of Melbourne's ONEMDA VicHealth Koori Health Unit	10	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
HUMAN SERVICES											
Human Services Delivery Research Alliance	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0
INFRASTRUCTURE AND TRANSPORT											
Air Cargo X-Ray Trials	14	0.0	0.0	0.0	0.0	4.9	3.8	0.0	0.0	0.0	0.0
Funding to Transport Certification Australia - Intelligent Access Program	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.7
Joint Liquids, Aerosols and Gels Trial	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
Liquids, Aerosols and Gels Screening Technology Trials	14	0.0	0.0	0.0	0.0	0.0	0.9	3.5	0.0	0.0	0.0
Low Volume Roads Research	14	0.0	0.0	0.0	0.0	0.0	1.6	0.6	0.3	0.1	0.0
Payments to Austroads/ARRB Transport Research Ltd.	14	1.8	1.9	1.9	2.2	2.2	2.8	2.9	3.1	3.2	3.4
INNOVATION, INDUSTRY, SCIENCE AND RESEARCH											
Australia-China Science and Research Fund	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Australian National University Research Infrastructure Projects	9	0.0	0.0	0.0	125.0	0.0	0.0	0.0	0.0	0.0	0.0
Australian Space Science Program	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.2	12.2
Australian National Stem Cell Centre	5	3.6	4.6	5.8	7.1	6.5	6.0	5.5	5.0	4.5	0.0
Australian Synchrotron Contribution	14	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0
Automotive Competitiveness Investment Scheme	6	134.8	128.7	130.4	145.7	168.9	178.4	202.4	233.8	108.0	0.0
Automotive Transformation Scheme	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.8	185.3
Biotechnology Innovation Fund ^f	6	11.9	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Building Information Technology Strengths - Advanced Networks Program	6	8.8	6.6	8.0	7.0	5.0	0.0	0.0	0.0	0.0	0.0
Building Information Technology Strengths - Incubators	6	16.1	11.6	12.6	10.6	5.0	3.5	0.0	0.0	0.0	0.0
Clean Business Australia - Climate Ready Program	6	0.0	0.0	0.0	0.0	0.0	0.0	15.9	37.6	16.3	8.5
Collaborative Research Network Program	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	18.6
Commercial Ready Program ^f	5	0.0	0.0	152.1	163.4	172.1	186.0	132.3	41.3	5.7	2.0

TABLE 3 - CONTINUED

PROGRAM	Ref. no. ^a	2002-03 \$m	2003-04 \$m	2004-05 \$m	2005-06 \$m	2006-07 \$m	2007-08 \$m	2008-09 \$m	2009-10 \$m	Estimated	Budget
										Actual 2010-11 \$m	Estimate 2011-12 \$m
Commercialisation Australia ^g	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	25.0	56.2
Commercialising Emerging Technologies (COMET)	6	11.4	8.7	7.9	8.4	9.7	14.0	13.5	11.2	6.1	0.0
Commonwealth Serum Laboratories (CSL) - Commonwealth assistance	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	10.6
Commonwealth Strategic Relationship with ANU											
· Australian National Institute for Public Policy	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.5
· Building the Centre on China in the World	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	8.0
· Building the National Security College	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
· Centre on China in the World	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.0	0.0
· National Security College	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
· Sir Roland Wilson Foundation	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0
Cooperative Research Centres (CRC)	11	148.6	201.8	194.5	208.1	189.3	211.9	182.3	178.9	172.6	165.2
European Molecular Biology Laboratory Partner Facility	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0
Enterprise Connect	6	0.0	0.0	0.0	0.0	0.0	0.2	0.3	1.0	1.1	1.1
Establishment of an ICT-enabled Research Laboratory - Commonwealth Assistance	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.3
Green Car Innovation Fund	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	108.1	62.9	136.4
Industry Cooperative Innovation Program	6	0.0	0.0	0.0	1.9	3.7	4.5	5.2	4.2	1.4	0.0
Industry Innovation Program (includes R&D Start Grants) ^f	5	115.5	132.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Information Technology Online (ITOL)	6	2.3	2.2	1.9	2.2	1.3	0.0	0.0	0.0	0.0	0.0
Innovation Access Program – Industry (IAcCP) ^f	5	5.0	11.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Innovation Investment Fund including Innovation Investment Follow-on Fund ^g	6	24.7	17.6	19.6	14.7	12.3	12.1	8.1	121.8	99.3	34.5
Intermediary Access Program (Pilot)	6	0.0	0.0	0.0	0.0	1.0	3.0	0.0	0.0	0.0	0.0
International Education and Training (Australia-India Strategic Research Fund)	6	0.0	0.0	0.0	0.0	0.0	2.1	6.9	5.6	7.4	11.1
International Science Linkages	14	7.6	7.6	9.3	10.2	11.1	11.4	11.7	10.1	12.3	0.0
Cairns Institute Tropical Innovation Hub - Contribution	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	4.5
Major National Research Facilities ^h	14	25.0	38.5	42.3	42.2	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Producer R&D Scheme	5	0.0	0.0	0.0	6.7	12.0	15.0	15.9	12.7	22.5	0.0
National Collaborative Research Infrastructure Strategy ⁱ	14	0.0	0.0	0.0	13.1	78.2	120.6	102.8	104.1	107.1	0.0
National Enabling Technologies Strategy	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.4	0.4
National Measurement Institute	3	0.0	0.0	8.0	8.0	8.0	8.5	8.5	9.0	9.5	9.5
Pharmaceutical Industry Investment Program	5	16.4	59.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pharmaceutical Partnerships Program	5	0.0	0.0	4.2	12.4	21.6	26.9	25.3	0.0	0.0	0.0
Competitive Pre-Seed Fund ^g	6	4.2	6.4	6.7	12.5	8.8	11.1	6.9	13.1	10.6	0.0
R&D Start Loans program	5	7.8	11.8	10.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
Shipbuilding Innovation Scheme	6	8.7	7.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small-Scale Mammalian Cell Production Facility	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	4.0
Société Internationale de Télécommunications Aéronautiques	6	1.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Software-Engineering Australia	6	2.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Technology Diffusion Program	6	12.9	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Test-It	6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PRIME MINISTER AND CABINET											
Anti-Doping Research Program (ADRP)	14	0.8	0.9	0.6	0.5	0.6	1.2	1.3	0.8	0.7	0.9
Australia Council - Synapse Program	14	0.0	0.1	0.0	0.3	0.1	0.1	0.2	0.2	0.1	0.1
Research Support for Counter Terrorism	14	0.0	0.0	1.0	2.0	2.1	4.0	4.4	4.0	3.3	1.9
US Department of Homeland Security Collaborative Research	14	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.3	0.4
US Technical Support Working Group (TSWG) Collaborative Research	14	0.0	0.0	0.0	0.0	0.0	0.9	0.3	0.3	0.4	0.5
REGIONAL AUSTRALIA, REGIONAL DEVELOPMENT AND LOCAL GOVERNMENT											
Regional and Rural Development Grant	12	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Regional and Rural Research and Development Grants	12	0.0	0.0	0.0	0.2	0.2	0.2	0.1	0.2	0.2	0.2
Regional and Rural Research and Information and Data Program	12	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RESOURCES, ENERGY AND TOURISM											
Advanced Electricity Storage Technologies	13	0.0	0.0	0.0	0.2	0.8	2.5	8.7	0.0	0.0	0.0
Clean Energy Initiative											
· Australian Centre for Renewable Energy	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.5	34.6	72.6
· Australian Solar Institute	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.8	30.0	32.7
· National Low Emissions Coal Initiative	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.3	67.8	48.7
Energy Innovation Fund	13	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0
Global Carbon Capture and Storage Institute	13	0.0	0.0	0.0	0.0	0.0	0.0	82.3	100.0	100.0	25.0
Low Emissions Technology Demonstration Fund	13	0.0	0.0	0.8	1.5	1.3	1.0	0.0	0.0	0.5	100.5
National Clean Coal Initiative	13	0.0	0.0	0.0	0.0	0.0	14.0	8.7	0.0	0.0	0.0
Otway Basin Pilot Project	13	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.6	0.0	0.0
Renewable Energy Fund	13	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0
Wind Forecasting Capability	13	0.0	0.0	0.9	4.5	4.0	3.2	1.3	0.0	0.0	0.0
SUSTAINABILITY, ENVIRONMENT, WATER, POPULATION AND COMMUNITIES											
Australian Biological Resources Study	13	3.7	3.1	3.0	3.0	1.9	2.0	2.0	2.0	2.0	2.0
Emissions Measurement and Analysis ^b	13	0.0	0.0	7.7	6.8	6.3	6.1	6.6	0.0	0.0	0.0
Greenhouse Gas Abatement Program	13	11.2	38.9	15.4	13.3	17.7	7.9	1.5	0.0	0.0	0.0
Greenhouse Research (NGRP)	13	3.9	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Low Emissions Technology and Abatement	13	0.0	0.0	0.9	2.0	6.7	3.1	1.7	0.0	0.0	0.0
Marine and Biodiversity Research	13	0.0	0.0	1.8	2.1	9.6	8.5	13.9	6.4	2.9	2.9
National Environmental Research Program	13	0.0	0.0	0.0	2.9	15.5	23.0	25.4	24.4	20.0	19.0
Reef Water Quality	13	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.1	3.4	3.0
Renewable Energy Commercialisation Program	13	9.2	9.2	2.9	1.7	1.5	0.0	0.0	0.0	0.0	0.0
Renewable Energy Equity Fund	13	1.9	3.4	0.4	1.3	0.8	1.8	0.0	0.0	0.0	0.0
VETERANS' AFFAIRS											
Australian War Memorial - Official Histories	3	0.0	0.0	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.0
TOTAL		946.4	1,165.3	1,112.2	1,609.6	1,890.6	1,618.9	1,861.7	2,130.5	2,256.3	2,156.9

Notes:

a. The financial information has been supplied and confirmed by the departments and agencies responsible for administering the programs listed in the Table. Reference numbers in Column 2 reconcile program expenditures with their respective sector aggregates in Table 1. Departmental expenses attributable to the administration of programs are excluded from the data in accordance with the recommendations of the Frascati Manual (2002, OECD).

b. Funding for this item is not reported in 2009-10 as it does not have a separate funding allocation.

TABLE 3 - CONTINUED

- c. The Australian Longitudinal Study on Women's Health was originally funded from within the Women's Health Program and then through existing resources of the health portfolio until 2003. From 2005, funding for the study was provided by a new measure called Australian Longitudinal Study on Women's Health. The \$1.7m in 2003-04 includes \$0.8m from the Office for the Status of Women. In December 2010 an additional \$5.3 million over the next three years in funding was announced to support the Australian Longitudinal Study on Women's Health that will help continue to build the evidence base on women's health. The additional funding will enable a new younger cohort of women to be added to the study, providing valuable information on the changes and challenges to women's health over time across a broader range of age groups.
- d. This item includes contributions from the Department of Human Services.
- e. Following a review of the comparability of historical data before and after NHMRC's separation from the Department of Health and Ageing in 2006, NHMRC has revised its reported grant payments to improve the consistency and accuracy of reported payments for health and medical research, as reported in NHMRC's Annual Report Financial Statements note on 'Special Accounts' net of GST.
- f. From 1 July 2004, funding for Biotechnology Innovation Fund, R&D Start Grants and part of the IAP - Industry were combined with the new Commercial Ready funding to form a single program.
- g. Programs provide support for commercialisation activities, including proof of concept activities.
- h. The National Collaborative Research Infrastructure Strategy (NCRIS) Program is a successor to the Major National Research Facilities (MNRF).
- i. The National Collaborative Research Infrastructure Strategy (NCRIS) Program is a successor to the Systemic Infrastructure Initiative.

TABLE 4 - CONTINUED

PROGRAM	Ref. no. ^a	2002-03 \$m	2003-04 \$m	2004-05 \$m	2005-06 \$m	2006-07 \$m	2007-08 \$m	2008-09 \$m	2009-10 \$m	Estimated	Budget
										Actual	Estimate
										2010-11 \$m	2011-12 \$m
VETERANS' AFFAIRS											
Australian Centre for Post-Traumatic Mental Health	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
Centre for Military and Veterans' Health	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Department of Veterans' Affairs Applied Research Program	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
Family Study Research	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
TOTAL		2,759.6	3,076.5	2,762.4	3,022.9	3,166.1	3,301.4	3,800.9	4,539.6	5,045.7	5,485.2

Notes:

- a. The financial information has been provided and confirmed by the departments responsible for administering the programs listed in the table. Reference numbers in Column 2 reconcile program expenditures with their respective sector aggregates in Table 1. Departmental expenses attributable to the administration of programs are excluded from the data in accordance with the recommendations of the Frascati Manual (2002, OECD).
- b. The R&D expenditures for wool, meat, other rural research, fish, horticulture and grains sectors exclude that component of Australian Government outlays funded from industry levies. Industry Contributions - Rural Research Levies (estimated proportion of levies attributable to research purposes - \$m) are presented in the table below.
- c. Prior to 2011-12, this program was funded from Budget appropriations.
- d. Following the 2002 Review of Higher Education, the Australian Government announced a package of new higher education policies, to be implemented between 2004 and 2008. The legislation to give effect to the reform package, the Higher Education Support Act 2003 (HESA), was passed by Parliament on 5 December 2003. As a result, this estimate is no longer consistent with the implementation of the new funding arrangements for higher education institutions under the provisions of the HESA and has not been included from 2004-05 onwards.
- e. This item refers to funds for research and research training provided to the Institute of Advanced Studies (IAS) of the Australian National University (ANU) through the ANU's operating grant. This was initially referred to as the ANU Institute of Advanced Studies Block Funding. The name has been updated to reflect the current DEEWR program name.
- f. This includes funding for nuclear science facilities which are the responsibility of the Australian Nuclear Science Technology Organisation.
- g. This includes funding for tropical marine research facilities which are the responsibility of the Australian Institute of Marine Science, as well as funding for the replacement of the National Marine Research Facility, which is the responsibility of CSIRO.
- h. Includes all supplementary funding to the Learned Academies
- i. The Systemic Infrastructure Initiative has been replaced by the National Collaborative Research Infrastructure Strategy. For an explanation on the disaggregation of the Research Infrastructure Block Grants program and the Research Training Scheme reported in this table, see notes on p.37, *Portfolio Budget Statements 2008-09 - Budget Related Paper No. 1.14 - Innovation, Industry, Science & Research Portfolio*.
- j. This data is based on estimates of revenue forgone as published in the Taxation Expenditures Statement 2010 (TES) and earlier issues. The TES estimates, particularly in later years, are revised each year as more data come to hand. Thus, the series here will be revised in the future. The data relates to the financial year when companies undertake the activity for which they subsequently claim a concession or deduction, i.e. they are the estimated costs to revenue that would have occurred if companies had made the tax claim in the same financial year in which the expenditure was incurred. Thus, the data presented in this table are brought forward by one year with respect to that published in the TES, since the TES data series reports data in the year in which revenue is forgone by the Government (normally, the year after expenditure is undertaken by companies). This will bring the time series into alignment with (1) business expenditure on R&D as reported by the Australian Bureau of Statistics, (2) R&D expenditure data as reported by companies registered for the 125% rate, and (3) times series for R&D program data in Tables 2 and 3 above.
- k. The PDF, VCLP and ESVCLP programs are venture capital tax concession programs. The funds are registered under the respective legislation and the fund manager has responsibility for raising funds from the capital markets (both domestic and overseas). These fund managers use commercial decisions to make eligible investments - normally to Australian investee companies. The investments are normally held for several years and depending on the program and the sale of investments can result in profits being made. Any associated returns for profits are reflected in either the PDF being provided with concessional tax rate of 15% tax rate or there is flow through tax treatment of the ESVCLP/VCLP to the respective manager and the fund manager is taxed on capital account. Caution needs to be exercised when analysing these figures with investments made by PDFs in any given year.
- l. Treasury has advised that '...the calculation of the R&D Tax Offset given in the table is the sum of the ATO's administered payments for the Offset and the calculation of the tax expenditure in the 2010 Tax Expenditure Statement produced by the Treasury. This calculation is only a proxy for the benefit provided to taxpayers by this measure rather than an exact representation. An exact calculation cannot be constructed as taxpayers future tax positions cannot be calculated at this point. The future tax positions is integral to calculating the value of deductions forgone by receiving the Offset.'
- m. Supplementing the pre-existing 125% tax concession for Industrial R&D and with effect from 1 July 2001. A 175% incremental (Premium) R&D Tax Concession for companies undertaking addition R&D was introduced.
- n. This program has been administered as part of the Marine Research program since 2004-05

Industry Contributions - Rural Research Levies

SECTOR	2002-03 \$m	2003-04 \$m	2004-05 \$m	2005-06 \$m	2006-07 \$m	2007-08 \$m	2008-09 \$m	2009-10 \$m	Estimated	Budget	
									Actual	Estimate	
									2010-11 \$m	2011-12 \$m	
Fish	5.0	6.1	2.0	5.7	5.7	0.8	0.2	0.8	0.2	0.2	
Grains											
· Wheat	39.4	41.4	41.5	41.5	27.6	40.4	31.1	45.2	46.3	49.2	
· Other Grains	25.6	28.2	25.7	25.9	23.2	36.4	30.8	30.2	36.4	35.6	
Horticulture	22.4	25.3	26.5	26.5	16.8	18.8	18.7	21.4	21.5	20.1	
Meat	19.4	20.5	21.1	21.8	22.1	30.6	34.8	35.5	36.2	35.2	
Wool	62.6	40.4	40.4	42.0	46.5	45.1	41.7	35.3	40.5	42.5	
Other Rural Research											
· Chicken Meat	1.1	1.1	1.1	1.1	1.4	1.0	1.1	1.5	1.3	1.3	
· Cotton	7.2	3.4	3.5	4.1	4.2	2.0	2.2	3.4	6.2	7.3	
· Dairying	12.9	16.3	31.0	31.0	31.0	28.0	27.3	28.3	29.5	28.7	
· Dried Fruit ^a	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
· Egg Industry	0.5	5.3	4.4	4.4	4.1	0.8	0.9	1.1	1.5	2.1	
· Forestry	3.0	3.8	3.8	3.8	3.6	4.6	5.2	5.1	5.5	5.2	
· Grape and Wine	7.8	7.7	7.9	7.9	13.2	9.9	12.5	12.1	12.8	11.9	
· Honey	0.2	0.2	0.2	0.2	0.5	0.3	0.3	0.4	0.3	0.3	
· Pig Industry	13.3	13.3	13.5	13.5	12.1	3.2	4.0	3.7	4.7	4.9	
· Sugar	5.3	5.5	5.5	5.5	5.1	4.8	4.5	4.1	3.8	3.8	
Rural Industries R&D Corporation	0.0	0.0	2.6	3.0	4.9	0.8	0.4	1.8	2.4	4.2	
TOTAL	226.3	218.5	230.8	237.9	222.0	227.4	215.8	230.0	249.0	252.6	

Notes:

- a. This levy is now combined with the Horticulture levy.

TABLE 5. AUSTRALIAN GOVERNMENT SUPPORT FOR SCIENCE, RESEARCH AND INNOVATION BY SOCIO-ECONOMIC OBJECTIVE^a

<i>SOCIO-ECONOMIC OBJECTIVE^{b,c}</i>	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	% of
	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>Expenditure</i>
									<i>Estimated Actual</i>	<i>Budget Estimate</i>	<i>2011-12</i>
											<i>%</i>
01. Exploration and exploitation of the earth	299.6	317.6	330.8	354.6	385.9	419.6	439.2	534.2	472.1	496.6	5.3
02. Environment	141.0	188.1	172.5	184.4	205.7	233.1	234.5	387.8	397.7	395.1	4.2
03. Exploration and exploitation of space	4.7	5.7	5.1	4.9	4.7	4.8	6.2	53.8	48.3	46.7	0.5
04. Transport, telecommunication and other infrastructure	71.6	89.8	103.4	118.8	121.5	126.6	141.1	193.0	308.2	345.3	3.7
05. Energy	120.4	133.0	151.1	191.6	213.5	255.8	385.2	463.7	510.8	544.4	5.8
06. Industrial production and technology	1,090.0	1,260.1	1,235.0	1,353.6	1,446.6	1,583.6	1,698.1	1,956.8	1,790.3	1,923.0	20.5
07. Health	408.7	511.2	521.9	833.3	1,123.3	833.6	1,148.3	1,138.0	1,484.1	1,627.4	17.3
08. Agriculture	377.5	436.6	444.8	480.1	491.6	514.6	535.0	553.5	602.8	552.7	5.9
09. Education ^d	10.6	13.9	15.9	16.6	17.5	19.3	20.4	21.4	23.2	27.0	0.3
10. Culture, recreation, religion and mass media ^d	77.7	72.7	72.5	86.3	107.9	121.1	148.5	184.3	93.2	104.5	1.1
11. Political and social systems, structures and processes ^d	88.7	106.1	121.5	128.1	132.3	149.2	179.4	229.9	267.3	315.5	3.4
12. General advancement of knowledge: R&D financed from General University Funds (GUF)	1,520.8	1,606.9	1,178.0	1,347.5	1,233.8	1,224.0	1,240.9	1,342.9	1,542.2	1,607.1	17.1
13. General advancement of knowledge: R&D financed from other sources than GUF	448.2	611.6	553.8	558.9	628.8	617.9	652.7	828.5	1,029.6	905.1	9.6
14. Defence	307.7	320.3	344.4	384.4	444.0	445.5	438.6	484.3	507.5	493.6	5.3
TOTAL	4,967.2	5,673.6	5,250.7	6,043.2	6,557.3	6,548.5	7,268.1	8,372.3	9,077.3	9,384.0	100.0

Notes:

a. Table 5 represents the total Commonwealth support for science, research and innovation through the Budget and other appropriations allocated by broad socio-economic objective (SEO) categories, classified according to the Nomenclature for the Analysis of Science Budgets (NABS) 2007 SEO classification. The allocation of Budget funds corresponds to the primary intention of the funder. Hence, the allocation according to the SEO categories may vary from that reported in the R&D surveys of the Australian Bureau of Statistics (ABS).

b. The socio-economic objective (SEO) nomenclature is in accordance with the OECD's Nomenclature for the Analysis and Comparison of Scientific programs and Budgets (NABS) 2007 for reporting Government Budget Appropriations or Outlays on R&D (GBOARD), and reflects the recommendations of the Frascati Manual (6th edition, 2002, OECD).

c. Figures previously reported against the NABS 1992 SEO category of 'Other civil research' prior to 2006-07 have been allocated across NABS 2007 categories 01-13

d. Under the NABS 1992 SEO classification, these socio-economic objectives were combined as 'Social structures and relationships'.