

# Appendix A: Additional tables

Table A1: Funding of public health expenditure, current prices, by source of fund, 1999–00 and 2000–01

Source of funds	1999–00		2000–01	
	Amount (\$ million)	Proportion of total government expenditure (%)	Amount (\$ million)	Proportion of total government expenditure (%)
<b>Funding by the Australian Government</b>				
Own expenditure	262.2	28.7	r293.2	29.0
Plus SPPs	r189.5	20.8	252.6	24.9
<i>Australian Government funding</i>	<i>r451.7</i>	<i>49.5</i>	<i>r545.8</i>	<i>53.9</i>
<b>Funding by states and territory governments</b>				
Gross expenditure	651.0	71.3	719.2	71.0
Less SPPs	189.5	20.8	252.6	24.9
<i>Net funding by the states and territories</i>	<i>461.5</i>	<i>50.5</i>	<i>466.7</i>	<i>46.1</i>
<b>Total funding of public health activities</b>	<b>r913.2</b>	<b>100.0</b>	<b>r1,012.4</b>	<b>100.0</b>

Note: Components may not add to totals due to rounding.

**Table A2: Total public health expenditure by the Australian Government and states and territories, current prices, by activity, 1999–00 (\$ million)**

Activity	Australian Government <sup>(a)</sup>	States and territories <sup>(b)</sup>	Total	Proportion of total public health expenditure (%)
Communicable disease control	20.9	130.5	151.4	16.6
Selected health promotion	19.7	r147.3	r167.0	18.3
Organised immunisation	49.1	101.6	150.7	16.5
Environmental health	14.0	43.6	57.6	6.3
Food standards and hygiene	11.1	13.7	24.8	2.7
Breast cancer screening	2.1	93.3	95.4	10.4
Cervical screening	59.5	23.2	82.7	9.1
Prevention of hazardous and harmful drug use	28.1	89.8	117.9	12.9
Public health research	r57.4	8.0	65.4	7.2
PHOFA administration <sup>(c)</sup>	0.3	..	0.3	..
<b>Total expenditure</b>	<b>r262.2</b>	<b>r651.0</b>	<b>r913.2</b>	<b>100.0</b>
Proportion of total public health expenditure (%)	28.7	71.3	100.0	..

(a) Australian Government expenditure does not include its funding of state/territory expenditures through SPPs to states and territories (see Glossary for an explanation of this term).

(b) Activity-specific, program-wide and agency-wide expenditures incurred by state and territory governments, including expenditures that are wholly or partly funded by the Australian Government through SPPs to states and territories (see Glossary for an explanation of these terms).

(c) Relates to expenditure incurred by the Australian Government in administering funding under the PHOFAs.

Note: Components may not add to totals due to rounding.

**Table A3: Total public health expenditure by the Australian Government and states and territories, current prices, by activity, 2000–01 (\$ million)**

Activity	Australian Government <sup>(a)</sup>	States and territories <sup>(b)</sup>	Total	Proportion of total public health expenditure (%)
Communicable disease control	21.3	r142.4	r163.7	16.2
Selected health promotion	30.9	r156.6	r187.5	18.5
Organised immunisation	50.9	118.1	169.0	16.7
Environmental health	14.5	50.7	65.2	6.4
Food standards and hygiene	16.6	18.4	35.0	3.5
Breast cancer screening	3.3	r92.5	r95.8	9.5
Cervical screening	61.8	26.4	88.2	8.7
Prevention of hazardous and harmful drug use	41.2	r101.4	r142.6	14.1
Public health research	r52.4	12.7	65.1	6.4
PHOFA administration <sup>(c)</sup>	0.3	..	0.3	0.0
<b>Total expenditure</b>	<b>r293.2</b>	<b>r719.2</b>	<b>r1,012.4</b>	<b>100</b>
Proportion of total public health expenditure (%)	29.0	71.0	100.0	..

(a) Australian Government expenditure does not include its funding of state/territory expenditures through SPPs to states and territories (see Glossary for an explanation of this term).

(b) Activity-specific, program-wide and agency-wide expenditures incurred by state and territory governments, including expenditures that are wholly or partly funded by the Australian Government through the SPPs to states and territories (see Glossary for an explanation of these terms).

(c) Relates to expenditure incurred by the Australian Government in administering funding under the PHOFAs.

Note: Components may not add to totals due to rounding.

**Table A4: Total government expenditure on public health activities, constant (2002–03) prices<sup>(a)(b)</sup> and change between 1999–00 and 2000–01**

Activity	1999–00 (\$ million)	2000–01 (\$ million)	Growth rate (%)
Communicable disease control	166.9	174.7	4.7
Selected health promotion	184.4	200.3	8.7
Organised immunisation	166.2	180.6	8.6
Environmental health	63.5	69.4	9.4
Food standards and hygiene	27.6	37.6	36.3
Breast cancer screening	105.0	102.3	–2.6
Cervical screening	91.4	94.2	3.1
Prevention of hazardous and harmful drug use	129.9	152.0	17.0
Public health research	72.3	69.4	–3.9
PHOFA administration <sup>(c)</sup>	0.3	0.3	—
<b>Total expenditure</b>	<b>1,007.5</b>	<b>1,080.9</b>	<b>7.3</b>

(a) Expenditure for 1999–00 is expressed in terms of 2002–03 prices using the ABS chain price index for 'Hospital and nursing home services' (see Section 11.1).

(b) Refer to the individual jurisdictional chapters for more information in relation to the changes in expenditures on the public health activities in this table.

(c) Relates to expenditure incurred by the Australian Government associated with the administration of PHOFAs.

**Table A5: Average total government expenditure per person<sup>(a)(b)</sup> on public health activities, current prices, by states and territories<sup>(b)</sup>, 2001–02 (\$)**

Activity	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Total
Communicable disease control	11.40	7.94	6.61	7.95	10.50	7.24	14.26	48.71	9.56
Selected health promotion	7.70	15.67	9.11	11.00	10.17	17.70	12.35	51.43	11.21
Organised immunisation	8.88	8.27	7.16	9.63	9.56	9.35	15.30	50.16	9.07
Environmental health	3.05	1.43	3.84	7.11	5.13	7.22	7.61	20.31	3.71
Food standards and hygiene	1.85	1.20	1.24	1.79	1.68	1.70	7.13	6.17	1.68
Breast cancer screening	5.16	4.17	5.82	4.54	4.90	5.86	5.69	4.58	4.98
Cervical screening	4.39	4.19	4.78	4.73	5.34	5.44	4.43	13.49	4.64
Prevention of hazardous and harmful drug use	3.75	6.80	7.55	10.11	10.44	13.78	21.09	22.86	7.08
Public health research	3.20	4.87	2.60	4.71	5.05	4.77	4.33	10.53	3.92
<b>Total for the nine activities</b>	<b>49.37</b>	<b>54.54</b>	<b>48.69</b>	<b>61.57</b>	<b>62.78</b>	<b>73.06</b>	<b>92.19</b>	<b>228.24</b>	<b>55.84</b>

(a) Includes expenditures incurred by state and territory governments that are wholly or partly funded by the Australian Government through SPPs to states and territories.

(b) Direct expenditure incurred by the Australian Government in supporting public health programs has been allocated across states and territories according to the allocation of SPPs except for *Cervical screening*, which has been allocated using Medicare benefits data.

(c) Estimates and comparisons across states and territories need to be interpreted with care. For further information see page 12 of this report. Also refer to the individual jurisdictions, chapters for more information on the expenditures incurred on the public health activities above.

**Table A6: Average total government expenditure per person<sup>(a)</sup> on public health activities, current prices, by states and territories<sup>(b)</sup>, 2002–03 (\$)**

Activity	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Total
Communicable disease control	11.68	8.26	7.10	7.99	11.47	8.42	12.39	71.94	10.15
Selected health promotion	7.53	15.54	9.24	11.32	10.18	16.35	24.06	13.99	10.78
Organised immunisation	11.14	14.50	11.35	13.37	14.28	13.44	19.79	41.73	12.92
Environmental health	2.87	1.52	4.14	6.99	5.03	7.32	10.77	23.50	3.75
Food standards and hygiene	1.82	1.21	1.45	1.70	1.89	1.47	2.17	4.92	1.71
Breast cancer screening	4.67	4.47	5.69	4.74	5.02	8.07	11.88	4.46	4.94
Cervical screening	3.81	3.98	4.48	4.81	5.24	5.13	7.55	11.85	4.31
Prevention of hazardous and harmful drug use	4.16	7.13	8.29	10.95	11.09	14.75	21.70	34.61	7.72
Public health research	3.59	5.46	3.28	5.40	5.90	4.76	7.00	9.17	4.44
<b>Total for the nine activities</b>	<b>51.26</b>	<b>62.06</b>	<b>55.03</b>	<b>67.26</b>	<b>70.10</b>	<b>79.72</b>	<b>117.33</b>	<b>219.50</b>	<b>60.75</b>

(a) Includes expenditures incurred by state and territory governments that are wholly or partly funded by the Australian Government through SPPs to states and territories.

(b) Direct expenditure incurred by the Australian Government in supporting public health programs has been allocated across states and territories according to the allocation of SPPs except for *Cervical screening*, which has been allocated using Medicare benefits data.

(c) Estimates and comparisons across states and territories need to be interpreted with care. For further information see page 12 of this report. Also refer to the individual jurisdictions' chapters for more information on the expenditures incurred on the public health activities above.

**Table A7: Average total government expenditure per person<sup>(a)</sup> on public health activities, constant (2002–03) prices<sup>(b)</sup>, by states and territories<sup>(c)</sup>, 2001–02 (\$)**

Activity	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Total
Communicable disease control	11.80	8.21	6.83	8.23	10.86	7.48	14.76	50.62	9.89
Selected health promotion	7.97	16.20	9.41	11.40	10.52	18.28	12.78	53.44	11.60
Organised immunisation	9.19	8.55	7.40	9.98	9.89	9.66	15.84	52.11	9.38
Environmental health	3.16	1.48	3.97	7.36	5.30	7.46	7.88	21.10	3.83
Food standards and hygiene	1.92	1.24	1.28	1.85	1.74	1.76	7.38	6.41	1.74
Breast cancer screening	5.34	4.32	6.02	4.71	5.07	6.05	5.89	4.76	5.15
Cervical screening	4.23	5.26	3.98	4.47	5.63	6.30	5.66	19.96	4.80
Prevention of hazardous and harmful drug use	3.88	7.04	7.80	10.47	10.79	14.23	21.84	23.74	7.33
Public health research	3.31	5.04	2.69	4.88	5.23	4.94	4.49	10.91	4.06
<b>Total for the nine activities</b>	<b>50.79</b>	<b>57.34</b>	<b>49.37</b>	<b>63.36</b>	<b>65.05</b>	<b>76.14</b>	<b>96.51</b>	<b>243.06</b>	<b>57.79</b>

(a) The per person expenditure estimate for each activity is based on the total population for the jurisdiction concerned.

(b) Expenditure for 2001–02 is expressed in terms of 2002–03 prices using the ABS chain price index for 'Hospital and nursing home services' (see Chapter 11, Section 11.1).

(c) Estimates and comparisons across states and territories need to be interpreted with care. For further information see page 12 of this report. Also refer to the individual jurisdictions' chapters for more information on the expenditures incurred on the public health activities above.

**Table A8: Average total government expenditure per person<sup>(a)</sup> on public health activities, constant (2002–03) prices, by states and territories<sup>(b)</sup>, 2002–03 (\$)**

Activity	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Total
Communicable disease control	11.68	8.26	7.10	7.99	11.47	8.42	13.85	71.94	10.15
Selected health promotion	7.53	15.54	9.24	11.32	10.18	16.35	12.97	13.99	10.78
Organised immunisation	11.14	14.50	11.35	13.37	14.28	13.44	16.47	41.73	12.92
Environmental health	2.87	1.52	4.14	6.99	5.03	7.32	8.23	23.50	3.75
Food standards and hygiene	1.82	1.21	1.45	1.70	1.89	1.47	7.84	4.92	1.71
Breast cancer screening	4.67	4.47	5.69	4.74	5.02	8.07	5.27	4.46	4.94
Cervical screening	3.57	4.99	3.98	4.05	4.83	5.13	4.30	15.18	4.31
Prevention of hazardous and harmful drug use	4.16	7.13	8.29	10.95	11.09	14.75	21.77	34.61	7.72
Public health research	3.59	5.46	3.28	5.40	5.90	4.76	4.18	9.17	4.44
<b>Total for the nine activities</b>	<b>51.02</b>	<b>63.07</b>	<b>54.53</b>	<b>66.50</b>	<b>69.68</b>	<b>79.72</b>	<b>94.88</b>	<b>219.50</b>	<b>60.71</b>

(a) The per person expenditure estimate for each activity is based on the total population for the jurisdiction concerned.

(b) Estimates and comparisons across states and territories need to be interpreted with care. For further information see page 12 of this report. Also refer to the individual jurisdictions' chapters for more information on the expenditures incurred on the public health activities above.

**Table A9: Average total government expenditure per person<sup>(a)</sup> on public health activities, constant (2002–03) prices<sup>(b)</sup>, by states and territories, 2003–04 (\$)**

Activity	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Total
Communicable disease control	9.88	9.33	7.10	8.10	11.45	6.58	14.47	79.78	9.84
Selected health promotion	7.54	14.61	8.24	11.30	10.29	14.92	13.65	15.78	10.36
Organised immunisation	14.60	10.87	11.60	12.42	11.29	11.69	19.05	43.89	12.92
Environmental health	2.72	1.86	4.16	6.96	4.61	9.13	12.89	27.20	3.91
Food standards and hygiene	1.81	1.32	1.41	1.72	1.61	1.17	8.95	5.00	1.72
Breast cancer screening	5.35	4.67	5.64	4.84	5.22	7.60	5.04	5.27	5.22
Cervical screening	3.60	5.23	3.69	3.91	4.53	4.94	5.00	16.52	4.30
Prevention of hazardous and harmful drug use	5.40	6.94	8.18	11.30	10.97	14.21	28.20	43.84	8.28
Public health research	3.71	5.70	3.09	5.34	5.89	4.73	4.79	9.20	4.50
<b>Total for the nine activities</b>	<b>54.60</b>	<b>60.50</b>	<b>53.11</b>	<b>65.89</b>	<b>65.87</b>	<b>74.98</b>	<b>112.05</b>	<b>246.47</b>	<b>61.07</b>

- (a) The per person expenditure estimate for each activity is based on the total population for the jurisdiction concerned.
- (b) Expenditure for 2003–04 is expressed in terms of 2002–03 prices using the ABS chain price index for 'Hospital and nursing home services' (see Chapter 11, Section 11.1).
- (c) Estimates and comparisons across states and territories need to be interpreted with care. For further information see page 12 of this report. Also refer to the individual jurisdictions' chapters for more information on the expenditures incurred on the public health activities above.

**Table A10: Total funding by the Australian Government for expenditure on public health activities, current prices, 1999–00 to 2000–01**

Activity	Funding (\$ million)			Proportion of total funding on public health(%)
	Direct expenditure	SPPs to states and territories	Total	
<b>Year 1999–00</b>				
Communicable disease control	20.9	4.9	25.8	5.7
Selected health promotion	19.7	r1.8	r21.5	4.8
Organised immunisation	49.1	r63.8	r112.9	25.0
Environmental health	14.0	..	14.0	3.1
Food standards and hygiene	11.1	..	11.1	2.5
Breast cancer screening	2.1	..	2.1	0.5
Cervical screening <sup>(a)</sup>	59.5	..	59.5	13.2
Prevention of hazardous and harmful drug use	28.1	2.7	30.8	6.8
Public health research	57.4	..	57.4	12.7
PHOFAs	<sup>(b)</sup> 0.3	<sup>(c)</sup> 116.3	116.6	25.8
<b>Total public health</b>	<b>262.2</b>	<b>r189.5</b>	<b>r451.7</b>	<b>100.0</b>
<b>Year 2000–01</b>				
Communicable disease control	21.3	13.7	35.0	6.4
Selected health promotion	30.9	..	30.9	5.7
Organised immunisation	50.9	96.1	147.0	26.9
Environmental health	14.5	..	14.5	2.7
Food standards and hygiene	16.6	..	16.6	3.0
Breast cancer screening	3.3	..	3.3	0.6
Cervical screening <sup>(b)</sup>	61.8	..	61.8	11.3
Prevention of hazardous and harmful drug use	41.2	21.0	62.2	11.4
Public health research	r52.4	0.2	r52.6	9.6
PHOFAs	<sup>(c)</sup> 0.3	<sup>(d)</sup> 121.6	121.9	22.3
<b>Total public health</b>	<b>r293.2</b>	<b>252.6</b>	<b>r545.8</b>	<b>100.0</b>

(a) Includes Medicare expenditure that has a public health purpose.

(b) Relates to expenditure incurred by the Australian Government associated with the administration of the PHOFAs.

(c) Excludes SPPs to states and territories of \$61.8 million, which have been included under the public health activity *Organised immunisation*.

(d) Excludes SPPs to states and territories of \$93.9 million, which have been included under the public health activity *Organised immunisation*.

Note: Sum of components may not add to totals due to rounding.

**Table A11: Direct expenditure incurred by the Australian Government on public health activities, current prices, 1999–00 to 2000–01**

Activity	Direct expenditure <sup>(a)</sup> (\$ million)			Proportion of total direct expenditure on public health(%)
	Administered expenses	Departmental expenses	Total	
<b>Year 1999–00</b>				
Communicable disease control	16.3	4.6	20.9	8.0
Selected health promotion <sup>(b)</sup>	14.1	5.6	19.7	7.5
Organised immunisation	47.2	1.8	49.1	18.7
Environmental health <sup>(c)</sup>	1.1	12.9	14.0	5.3
Food standards and hygiene <sup>(c)</sup>	1.5	9.7	11.1	4.2
Breast cancer screening	0.7	1.4	2.1	0.8
Cervical screening	58.2	1.3	59.5	22.7
Prevention of hazardous and harmful drug use <sup>(b)</sup>	22.7	5.3	28.1	10.7
Public health research	55.7	1.7	57.4	21.9
PHOFA administration <sup>(d)</sup>	—	0.3	0.3	0.1
<b>Total public health</b>	<b>217.5</b>	<b>44.6</b>	<b>262.2</b>	<b>100.0</b>
<b>Year 2000–01</b>				
Communicable disease control	16.0	5.3	21.3	7.3
Selected health promotion <sup>(b)</sup>	22.7	8.2	30.9	10.5
Organised immunisation	49.3	1.6	50.9	17.4
Environmental health <sup>(c)</sup>	1.5	13.0	14.5	4.9
Food standards and hygiene <sup>(c)</sup>	2.8	13.9	16.6	5.7
Breast cancer screening	2.6	0.7	3.3	1.1
Cervical screening	61.1	0.7	61.8	21.1
Prevention of hazardous and harmful drug use <sup>(b)</sup>	27.4	13.8	41.2	14.1
Public health research	r51.6	0.9	r52.4	17.9
PHOFA administration <sup>(d)</sup>	—	0.3	0.3	0.1
<b>Total public health</b>	<b>r235.0</b>	<b>58.4</b>	<b>r293.2</b>	<b>100.0</b>

(a) Does not include SPPs to states and territories.

(b) Departmental expenditures for *Selected health promotion* and *Prevention of hazardous and harmful drug use* are relatively higher than for other activities because they contain social marketing campaigns.

(c) Departmental expenditures on *Environmental health* and *Food standards and hygiene* are relatively higher than for other activities because they include operational expenditure for ARPANSA and FSANZ respectively.

(d) Relates to expenditure incurred by the Australian Government in administering the PHOFAs.

Note: Sum of components may not add through to totals due to rounding.



# Appendix B: Technical Advisory Group to the National Public Health Expenditure Project

Table B1: Membership of the Technical Advisory Group

Jurisdiction/organisation	Membership
Australian Government	Brian Harrison, Brett Rogers
New South Wales	David Su
Victoria	Barry Ingate
Queensland	Graham Jarvis
Western Australia	Clive Mulroy
South Australia	Tony Woollacott
Tasmania	Karen Shanahan
Australian Capital Territory	Linda Halliday
Northern Territory	Steve Guthridge
AIHW	Tony Hynes, Daniel Aherne

# Glossary

Accrual accounting	The method of accounting most commonly used by governments in Australia. Relates expenses, revenues and accruals to the period in which they are incurred regardless of when payment is made or received (see also <i>Cash accounting</i> ).
Activity-specific expenditures	Expenditures undertaken by cost centres that are specific to the public health activity categories. Examples include expenditure by the immunisation cost centre or the radiation safety cost centre. These expenditures include salary costs; staff on-costs; non-labour support costs such as office space, electricity, stationery, administrative and IT support; and program running costs such as travel, meetings, conferences and training.
Agency-wide expenditures	Expenditures of a corporate nature that support all the programs (core and non-public health programs) undertaken by the agency concerned. Includes human resource management, staff development, finance, legal and industrial relations activities.
Australian Government administered expenses	Expenses incurred by Department of Health and Ageing in administering resources on behalf of the government to contribute to the specified outcome (for example most grants in which the grantee has some control over how, when and to whom funds can be expended, including PHOFA payments and Specific Purpose Payments to state and territory governments) (see also <i>Australian Government departmental expenses</i> ).
Australian Government departmental expenses	Those expenses incurred by the Department of Health and Ageing in the production of the department's outputs (mostly consisting of the cost of employees but also including suppliers of goods and services, particularly those where the Australian Government retains full control of how, when and to whom funds are to be provided).
Australian Government direct expenditure	Total expenditure actually incurred by the Australian Government on its own public health programs. It does not include the funding provided by the Australian Government to the states and territories by way of grants under Section 96 of the Constitution (see <i>PHOFAs</i> and <i>Specific Purpose Payments</i> ).
Australian Government funding	The sum of Australian Government expenditure and Section 96 grants to states and territories.

Cash accounting	Relates receipts and payments to the period in which the cash transfer actually occurred. Does not have the capacity to reflect non-cash transactions, such as depreciation (see also <i>Accrual accounting</i> ).
Centralised corporate services	Includes human resource management, staff development, finance and industrial relations.
Collection manual	A document agreed to by all jurisdictions that provides guidance on what activities constitute the nine public health activities and the procedures to be adopted in collecting and compiling the associated expenditure information.
Public health activities	Nine types of activities undertaken or funded by the key jurisdictional health departments that address issues related to populations, rather than individuals. Does not include treatment services.
Current prices	The term 'current prices' is used to refer to expenditure amounts for a particular year which have not been adjusted for inflation.
Constant prices	The term 'constant prices' refers to expenditure amounts for a particular year which have been adjusted for inflation. In this publication, the values for all periods have been expressed in terms of prices in the reference year 2002-03.
Government final consumption expenditure	Net expenditure on goods and services by general government bodies for current purposes (that is, outlays which do not result in the creation of capital assets, or in the acquisition of land and existing buildings or second-hand capital goods).
General Practice Immunisation Incentive scheme	An Australian Government initiative designed to boost the level of childhood immunisation by emphasising the role of GPs.
Indirect expenditure	Includes public or population health program-wide services that are less specific, such as epidemiology units, or public health policy and strategy units. It also usually includes agency-wide services such as corporate services or the office of the Chief Health Officer. Public health program-wide services and agency-wide services need to be apportioned across categories to estimate the overall expenditure required to deliver a particular public health expenditure output.
Jurisdictions	Australian, state and territory governments.
PHOFA administration	This is expenditure incurred by the Australian Government in the administration of the PHOFAs.

PHOFAs	Payments made by the Australian Government to state and territory governments to support their public health programs through the Public Health Outcome Funding Agreements.
Program-wide expenditures	Public health expenditures associated with functions that support a number of public health activities. These include expenditure on information systems, disease surveillance and epidemiology, public health policy, program and legislation development, public health communication and advocacy, public and environmental health laboratory services, and public health research and development.
Public health	Organised response by society to protect and promote health, and to prevent illness, injury and disability. The starting point for identifying public health issues, problems and priorities, and for designing and implementing interventions is the population as a whole, or population subgroups (NPHP 1998).
Specific Purpose Payments (SPPs)	Australian Government payments to the states and territories under the provisions of Section 96 of the Constitution, to be used for purposes specified in agreements between the Australian Government and individual state and territory governments. Some are conditional on states and territories incurring a specified level or proportion of expenditure from their own resources.  PHOFA grants and grants to the states and territories for essential vaccines are examples of Specific Purpose Payments.
Recurrent expenditure	Expenditure incurred by organisations on a recurring basis, for the provision of health services, excluding capital expenditure but including indirect expenditure.

# References

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