
D Emergency management sector overview

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Attachment tables

Attachment tables are identified in references throughout this sector overview by a 'DA' prefix (for example, table DA.1). A full list of attachment tables is provided at the end of this sector overview, and the attachment tables are available from the website at www.pc.gov.au/rogs/2016.

D.1 Introduction

This sector overview provides an introduction to and the policy context for government services reported in 'Fire and ambulance services' (chapter 9). It provides an overview of the emergency management sector, presenting both contextual information and high level performance information.

All abbreviations used in this Report are available in a complete list in Volume A: Approach to performance reporting.

Policy context

The *Natural Disaster Resilience Statement* (COAG 2009) highlights that a national, coordinated and cooperative effort is needed to enhance Australia's capacity to withstand and recover from emergencies and disasters. In 2011, the Council of Australian Governments (COAG) adopted the *National Strategy for Disaster Resilience* (COAG 2011) which promotes a 'resilience' based approach to natural disaster policy and programs. The strategy recognises that disaster resilience is a shared responsibility for individuals, businesses and communities, and involves activities as diverse as risk assessment, legislation, community development, emergency response, urban development and land use management, and community recovery. In 2014, the Law, Crime and Community Safety Council (LCCSC) tasked the Australia-New Zealand Emergency Management Committee (ANZEMC) to review the implementation of the strategy including to conduct a critical evaluation of progress and to identify future priority areas of focus (COAG 2015).

ANZEMC is Australia's national consultative emergency management forum and reports to the LCCSC (LCCSC 2014). ANZEMC works to strengthen disaster resilience by providing strategic leadership on emergency management policy and supporting related capability and capacity development activities.

Sector scope

Emergency management is the practice of managing the impact from emergency events (box D.1) to individuals, communities and the environment (EMA 1998).

Box D.1 **Emergency events**

An emergency event is an event that endangers or threatens to endanger life, property and/or the environment, and which requires a significant and coordinated response (EMA 1998). It encompasses:

- structure fires
- rescues — including road crash rescues and marine rescues
- medical emergencies and transport
- natural disaster events — bushfire (landscape fire), earthquake, flood, storm, cyclone, storm surge, landslide, tsunami, meteorite strike, and tornado
- consequences of acts of terrorism
- other natural events — such as drought, frost, heatwave, or epidemic
- disaster events resulting from poor environmental planning, commercial development, or personal intervention
- technological and hazardous material incidents — such as chemical spills, harmful gas leaks, radiological contamination, explosions, and spills of petroleum products
- quarantine and control of diseases and biological contaminants.

Source: AEM (2015a).

Emergency management organisations in Australia have adopted an approach that aims to be:

- *comprehensive* — encompassing all hazards and recognising that dealing with the risks to community safety requires a range of activities to prevent, prepare for, respond to and recover from any emergency
- *integrated* — ensuring the involvement of governments, all relevant agencies and organisations, private sector and the community.

Emergency events vary in size and intensity, affecting individuals (such as in medical emergencies), household/business assets (such as in building fires), or community, economy and the environment (such as in natural disasters).

Events of considerable magnitude or duration, such as earthquakes, cyclones and bushfires, can involve international, interstate and other cooperation and support. Jurisdictions are increasingly contributing to operational responses across Australia and to a number of significant emergency events around the Pacific and Indian Ocean rim.

State and Territory governments

State and Territory governments are responsible for regulatory arrangements that protect life, property and the environment. They have primary responsibility for delivering emergency services directly to the community through emergency service organisations.

Emergency service organisations include government departments, statutory authorities, and smaller branches, agencies or services within larger departments or authorities (table DA.1). They also include non-government organisations, supported by State and Territory government funding and legislation, which provide emergency management services on behalf of the state, such as St John Ambulance in WA and the NT.

The range of emergency service organisations encompasses:

- *Fire service organisations* — work to minimise the impact of fire and other emergencies on the community, in cooperation with other government departments and agencies (SES, police, ambulance services and community service organisations) (chapter 9)
- *Ambulance service organisations* — work within the health system providing emergency and non-emergency patient care and transport. Ambulance services provide a critical link between health care and disaster management systems (CAA 2013). They are responsible for providing responsive, high quality specialised medical care in emergencies. This includes working with other emergency services organisations to provide pre-hospital care, rescue, retrieval, and medical transport to tertiary health care facilities by road, air and water
- *State and Territory Emergency Service organisations (SES)* — help communities prepare for, respond to, and recover from unexpected events and play a major role in each State and Territory for hazards as diverse as:
 - road crash rescue incidents and extrications (other than in the ACT, where ACT Fire and Rescue is responsible for all road crash rescue services)
 - flood, earthquake, tsunami, tropical cyclone and marine search and rescue
 - search and rescue services (table DA.14)
- *Marine rescue and coast guard organisations* — marine rescue and boating safety and communication services
- *Lifesaving organisations* — water safety, drowning prevention and rescue services.

Australian Government

The primary role of the Australian Government is to support the development, through State and Territory governments, of a national emergency management capability. Australian Government assistance takes the form of:

- financial, physical and technical assistance in large scale emergency events
- financial assistance for natural disaster resilience, mitigation and preparedness
- support for emergency relief and community recovery
- support for risk management and comprehensive risk assessment programs

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- contracting Telstra to provide the national Triple zero (000) emergency call operator service, and regulating the provision of this service
 - support for community awareness activities.

Australian Government agencies also have specific emergency management responsibilities, including: the control of exotic animal and plant diseases; aviation and maritime search and rescue; the management of major marine pollution (beyond coastal waters); the prediction of meteorological and geological hazards; the provision of firefighting services at some airports and some defence installations; human quarantine; and research and development. The Australian Government also manages the Crisis Coordination Centre, which maintains a 24-hour a day situational awareness, analysis and reporting capability and an emergency management planning capability.

The Australian Government is also responsible for reporting against Australia's progress in implementing the United Nations' Sendai Framework for Disaster Risk Reduction 2015-2030 (UNISDR 2015).

State and Territory governments may seek non-financial assistance for response and recovery activities. This assistance is usually provided under the Defence Assistance to the Civil Community (DACC) program. Under the DACC, the Department of Defence may be called upon to provide personnel, equipment and expertise to assist in the civil response to an emergency event. DACC recorded 275 emergency tasks from 2005-06 to 2012-13 (ANAO 2014).

Local governments

Local governments in some states and territories are involved to varying degrees in emergency management. Their roles and responsibilities may include:

- considering community safety in regional and urban planning by assessing risks, and developing emergency event mitigation measures and prevention plans
- improving community preparedness through local emergency planning
- issuing hazard reduction notices to private land holders and clearing vegetation in high risk public areas
- collecting statutory levies to fund fire and other emergency services
- allocating resources for response and recovery activities
- providing financial and operational assistance to voluntary emergency services.

Profile of the emergency management sector

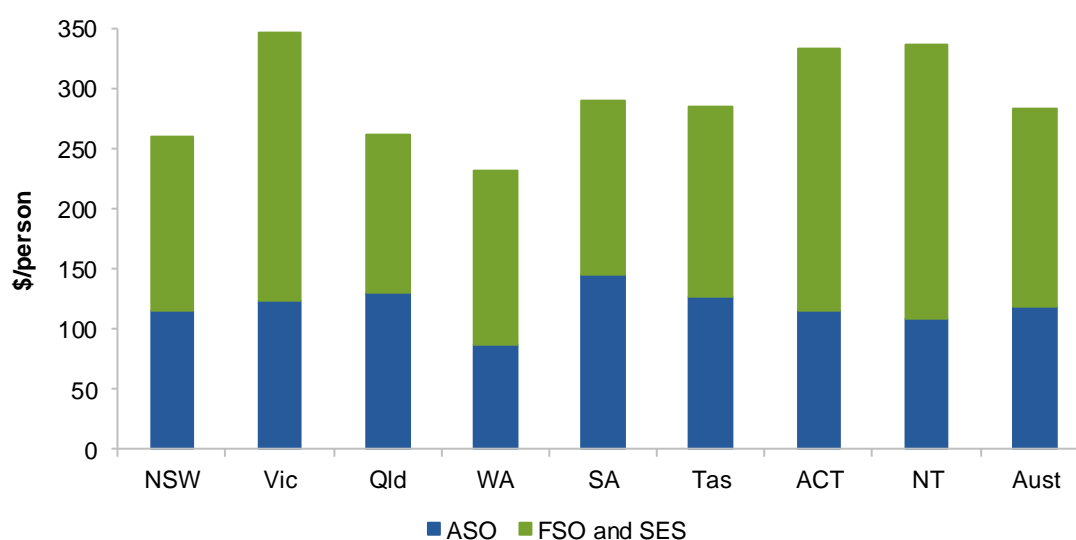
Detailed profiles for fire events and ambulance events within the emergency management sector are reported in chapter 9, including size and scope of the individual service types

and associated expenditure. Descriptive statistics for SES organisations are presented, by jurisdiction, in tables DA.14–DA.19.

Emergency service organisation costs

Nationally in 2014-15, total expenditure across ambulance, fire and emergency service organisations was \$6.7 billion, or \$283.82 per person in the population, although some caution should be taken when comparing these data across service areas and jurisdictions (figure D.1 and table DA.3).

Figure D.1 **Expenditure of emergency service organisations, per person in the population 2014-15^a**



ASO = Ambulance service organisation; **FSO** = Fire service organisation; **SES** = State/Territory emergency service organisation. ^a See table DA.3 for detailed footnotes and caveats.

Source: State and Territory governments; table DA.3.

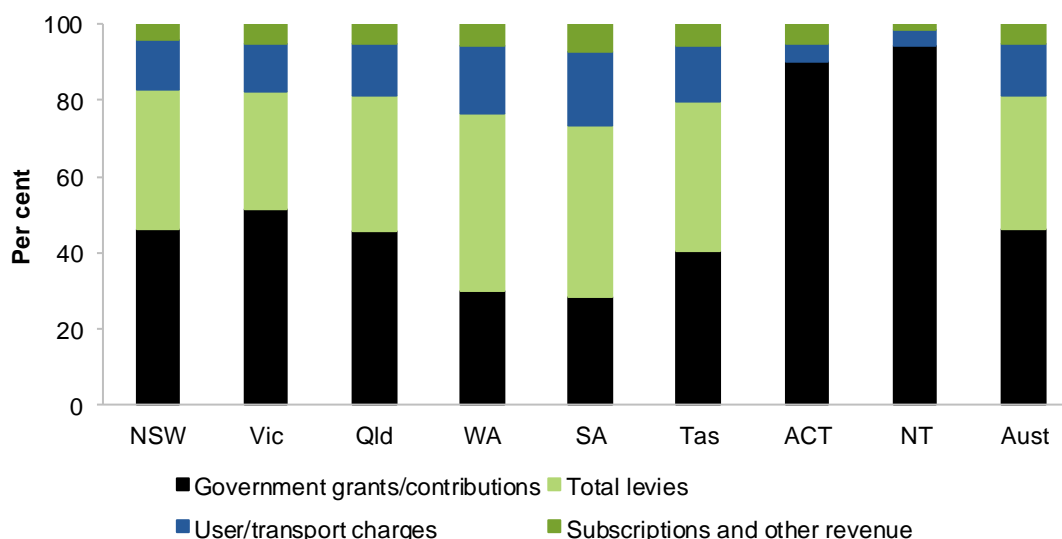
The cross-cutting and interface issues section of this overview (section D.3) highlights that a range of other government agencies, such as police and health services, also fund emergency management. In addition, governments also incur costs for government disaster coordination agencies and volunteer marine rescue and lifesaving organisations (these costs are not available for this Report).

Funding emergency service organisations

The funding of emergency services organisations varies by service and jurisdiction (figure D.2). Funding occurs through a mix of:

- government grants — provided to emergency services organisations from State and Territory governments
- fire and emergency service levies — governments usually provide the legislative framework for the imposition of levies on property owners or, in some jurisdictions, from levies on both insurance companies and property owners
- ambulance user/transport charges — from government, hospitals, private citizens and insurance companies
- subscriptions and other revenue — subscriptions, other fees, donations and miscellaneous revenue.

Figure D.2 **Emergency service organisations funding sources, 2014-15^{a, b}**



^a See table DA.2 for detailed footnotes and caveats. ^b Total levies in the ACT and the NT are nil.

Source: State and Territory governments; table DA.2.

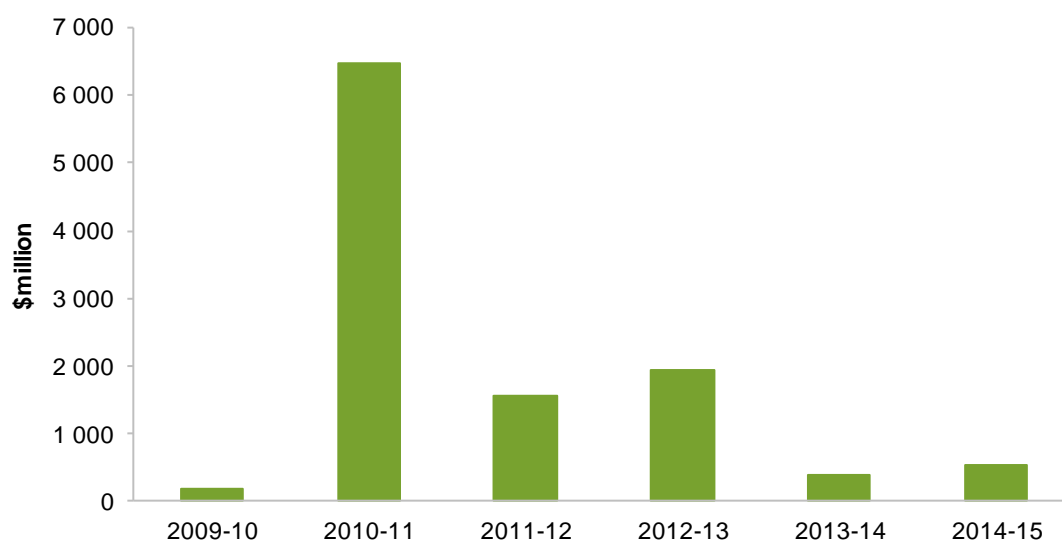
Australian Government funding

The Australian Government provides emergency management funding to State and Territory governments through a range of programs.

The *Natural Disaster Relief and Recovery Arrangements* provide financial assistance to support State and Territory governments with relief and recovery efforts following an eligible natural disaster event. The Australian Government calculated that it contributed \$521.8 million to the States and Territories for natural disaster events in 2014-15. Allocations to State and Territory governments vary across jurisdictions and over time depending on the timing and nature of natural disaster events (figure D.3 and table DA.6).

Under the *National Bushfire Mitigation Programme*, the Australian Government is providing \$15 million from 2015-16 to 2017-18 in support of state and territory efforts to reduce long term bushfire risks. The programme is aimed at strengthening community resilience, as well as building the ability to prevent bushfires. Examples of state-based bushfire mitigation work supported under the programme include improved bushfire risk mapping, extending fire trails and better coordinated prescribed burns with private landholders. The programme also includes \$2.2 million in support for the National Burning Project and a \$1.5 million mechanical fuel load reduction trial.

Figure D.3 **Natural Disaster Relief and Recovery Arrangements expenses (2014-15 dollars)^a**



^a See table DA.6 for detailed footnotes and caveats.

Source: Australian Government (unpublished); table DA.6, table DA.20.

The *Natural Disaster Resilience Program* provides funding to the State and Territory governments to strengthen community resilience to natural disasters, consistent with the *National Strategy for Disaster Resilience*. In 2014-15, funding was \$25.7 million (table DA.5). Allocations to State and Territory government are included in table DA.5. Other initiatives include the *National Emergency Management Projects* program (\$3.7 million in 2014-15) (AEM 2015b).

The Australian Government also provides financial support to eligible individuals affected by a disaster. In 2014-15, the Australian Government made payments of \$107.6 million in financial assistance via programs such as the Australian Government Disaster Recovery Payment (table DA.7).

A Productivity Commission report into Natural Disaster Funding Arrangements published in 2015 included a recommendation that funding arrangements be examined by

governments with a view to ensuring a better balance between mitigation and recovery (Productivity Commission 2015). At its November 2015 meeting, the LCCSC agreed to continue to investigate a new model where the Australian Government would provide recovery funding to states for the reconstruction of essential public assets based on upfront damage assessments and pre-determined reconstruction costs (LCCSC 2015).

Emergency service organisations human resources

Nationally in 2014-15, 35 406 full time equivalent (FTE) people were employed by emergency service organisations. Over half (54.9 per cent) were employed in fire and emergency service organisations, while the remainder were employed by ambulance service organisations (table D.1).

Table D.1 Full time equivalent salaried personnel in ambulance, fire and SES organisations, 2014-15^a

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
Total ambulance, fire and emergency service organisations									
Ambulance service organisations									
	4 481	4 030	4 029	1 392	1 276	367	240	161	15 976
Fire and emergency service organisations (FSO and SES)									
FSOs	5 368	6 625	3 044	1 505	1 066	482	456	307	18 853
SES	297	184	na	na	44	25	8	19	na
Total	5 665	6 809	3 044	1 505	1 110	507	464	326	19 430
Total	10 146	10 839	7 073	2 897	2 386	874	704	487	35 406

^a See tables DA.4 and DA.17 for detailed footnotes and caveats. **na** Not available.

Source: State and Territory governments (unpublished); table DA.4.

In 2014-15, 256 655 fire, ambulance and emergency service volunteers (and another 1122 community first response ambulance volunteers) were on the records of emergency service organisations (table DA.4). Emergency services volunteers play a significant role in the provision of emergency services in Australia, particularly in rural and remote areas, by providing:

- response services in the event of an emergency
- community education, cadet schemes and national accredited emergency training
- emergency event support and administrative roles
- community prevention, preparedness and recovery programs.

Although volunteers are not paid wages and salaries, they provide a valuable service to communities (box D.2). However, the government and community do bear some costs of this service, including:

This page has been changed since an earlier version of the Report. See errata at

<http://www.pc.gov.au/research/ongoing/report-on-government-services/2016/emergency-management#errata>

- governments — who provide funds and support through infrastructure, training, uniforms, personal protective equipment, operational equipment and support for other operating costs
- employers of volunteers — particularly self-employed volunteers, who incur costs in supporting volunteer services such as in-kind contributions, lost wages and productivity, and provision of equipment.

Volunteer activity has implications for the interpretation of financial and non-financial performance indicators. Notional wage costs for volunteers are not reflected in monetary estimates of inputs or outputs, which means that data for some performance indicators may be misleading where the input of volunteers is not counted but affects outputs and outcomes.

A study by the Australian Council of State Emergency Services for selected jurisdictions estimated the value of volunteer time for community preparedness services, operational response, training and unit management (without stand by time) from 1994-95 to 2004-05 averaged around \$52 million (NSW), \$19 million (Victoria) and \$12 million (SA) per year. The total time volunteers made available including stand by time is estimated to be more than \$86 million and \$41 million a year to NSW and Victoria respectively (Ganewatta and Handmer 2007).

Emergency service organisations' activity

Nationally in 2014-15, emergency service organisations attended a wide range of emergency events, including:

- 3.4 million emergency incidents attended by ambulance service organisations. Ambulance service organisations also attended approximately 1 032 190 urgent incidents and 916 643 non-emergency incidents (chapter 9 and table D.2)
- 385 118 emergency incidents attended by fire service organisations to a range of emergency events, including structure fires, landscape fires and road crash rescue events (chapter 9 and table D.2)
- 82 382 emergency incidents attended by SES organisations to a range of emergency events, predominantly storm and cyclone events (67 430 incidents), followed by flood events (3759 incidents) and road crash rescue events (2411 incidents) (table DA.18). SES staff and volunteers contributed 354 515 hours of service (table DA.19).

This page has been changed since an earlier version of the Report. See errata at <http://www.pc.gov.au/research/ongoing/report-on-government-services/2016/emergency-management#errata>

Table D.2 Emergency incidents that emergency service organisations attended, 2014-15^a

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
Ambulance service organisations									
'000	894.1	833.4	946.4	262.7	274.1	74.1	47.0	38.1	3 369.8
Fire service organisations									
'000	148.0	77.0	71.5	30.8	29.2	10.8	10.3	7.4	385.1
SES organisations									
'000	40.1	21.7	12.7	0.5	5.2	1.2	0.7	0.2	82.4

^a See tables DA.3 and DA.18 for detailed footnotes and caveats. **na** Not available.

Source: State and Territory governments; table 9A.13; table 9A.33; table DA.18.

Social and economic factors affecting demand for services

The size, severity, timing, location and impacts of emergencies are difficult to predict. However, many known factors increase vulnerability to emergency events (COAG 2011). Work-life patterns, lifestyle expectations, demographic changes, domestic migration, and community fragmentation are increasing community susceptibility and demand for emergency management services (COAG 2009).

Within individual communities, certain members may be more vulnerable or become vulnerable over time and may need tailored advice and support. Factors that can influence vulnerability include:

- *socioeconomic status* — research shows socially-disadvantaged communities are more heavily impacted by emergency events. For example, the fire death and injury rates of Australia's most disadvantaged areas (as defined by the 2001 Socio-Economic Indexes for Areas) are 3.6 times that of the least disadvantaged areas respectively (Dawson and Morris 2008)
- *English as a second language* — research in WA has been found that culturally and linguistically diverse communities are more vulnerable to fire events (FESA 2010)
- *remoteness and population density* — population growth has been experienced across Australian regional centres, coastal areas, rural areas around major cities, alpine areas and along inland river systems. Such areas are more susceptible to emergency events and require greater resources when an emergency event occurs (Victorian Bushfires Royal Commission 2010)

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- *ageing populations* — population change is expected to lead to an increased proportion of older Australians living in the community (Australian Government 2010). As more people fall into the older age groups their need to call for assistance in an emergency generally increases — such as individual medical emergencies requiring an ambulance, or assistance in preparing for and/or responding to a community wide emergency (for example, a natural disaster)
 - *population mobility and access to services.*

Service-sector objectives

The framework of performance indicators in this sector overview is based on objectives for emergency management established in the *National Strategy for Disaster Resilience* and are common to all Australian emergency services organisations (box D.2).

Box D.2 Objectives for emergency management

Emergency management services aim to build disaster resilient communities that work together to understand and manage the risks that they confront. Emergency management services provide highly effective, efficient and accessible services that:

- reduce the adverse effects of emergencies and disasters on the community (including people, property, infrastructure, economy and environment)
- contribute to the management of risks to the community
- contribute to community recovery
- enhance public safety.

To meet the objectives of emergency management, emergency service organisations classify their key functions in managing emergency events to the prevention/mitigation, preparedness, response and recovery framework. The framework uses the following widely accepted ‘comprehensive approach’.

- *Prevention/mitigation* — the results of measures taken in advance of an emergency aimed at decreasing or eliminating its impact on the community and the environment. Activities that contribute to prevention and mitigation include: advice on land management practice and planning; the inspection of property and buildings for hazards, compliance with standards and building codes, and levels of safe practices; the preparation of risk assessment and emergency management plans; risk categorisation for public information campaigns; and public information campaigns and educational programs to promote safe practices in the community
- *Preparedness* — the results of activities to ensure, if an emergency occurs, that communities, resources and services are capable of responding to, and coping with, the effects. Activities that contribute to preparedness include: public education and training; emergency detection and response planning (including the installation of

smoke alarms and/or sprinklers); hazardous chemicals and material certification, and the inspection of storage and handling arrangements; exercising, training and testing emergency service personnel; and standby and resource deployment and maintenance. Preparedness also involves establishing equipment standards and monitoring adherence to those standards

- *Response* — The results of strategies and services to control, limit or modify the emergency to reduce its consequences. Activities that contribute to response include: implementing emergency plans and procedures; issuing emergency warnings; mobilisation of resources in response to emergency incidents; suppression of hazards (for example, fire containment); provision of immediate medical assistance and relief; and search and rescue
- *Recovery (community)* — The results of strategies and services to support affected individuals and communities in their reconstruction of physical infrastructure and their restoration of emotional, social, economic and physical wellbeing within their changed environment. Activities that contribute to community recovery include: restoring essential services; counselling programs; temporary housing; long-term medical care; restoration of community confidence and economic viability; and public health and safety information
- *Recovery (emergency services organisations)* — The results of strategies and services to return agencies to a state of preparedness after emergency situations. Activities that contribute to emergency services recovery include: critical incident stress debriefing; and the return of emergency services organisations resources to the state of readiness specified in response plans.

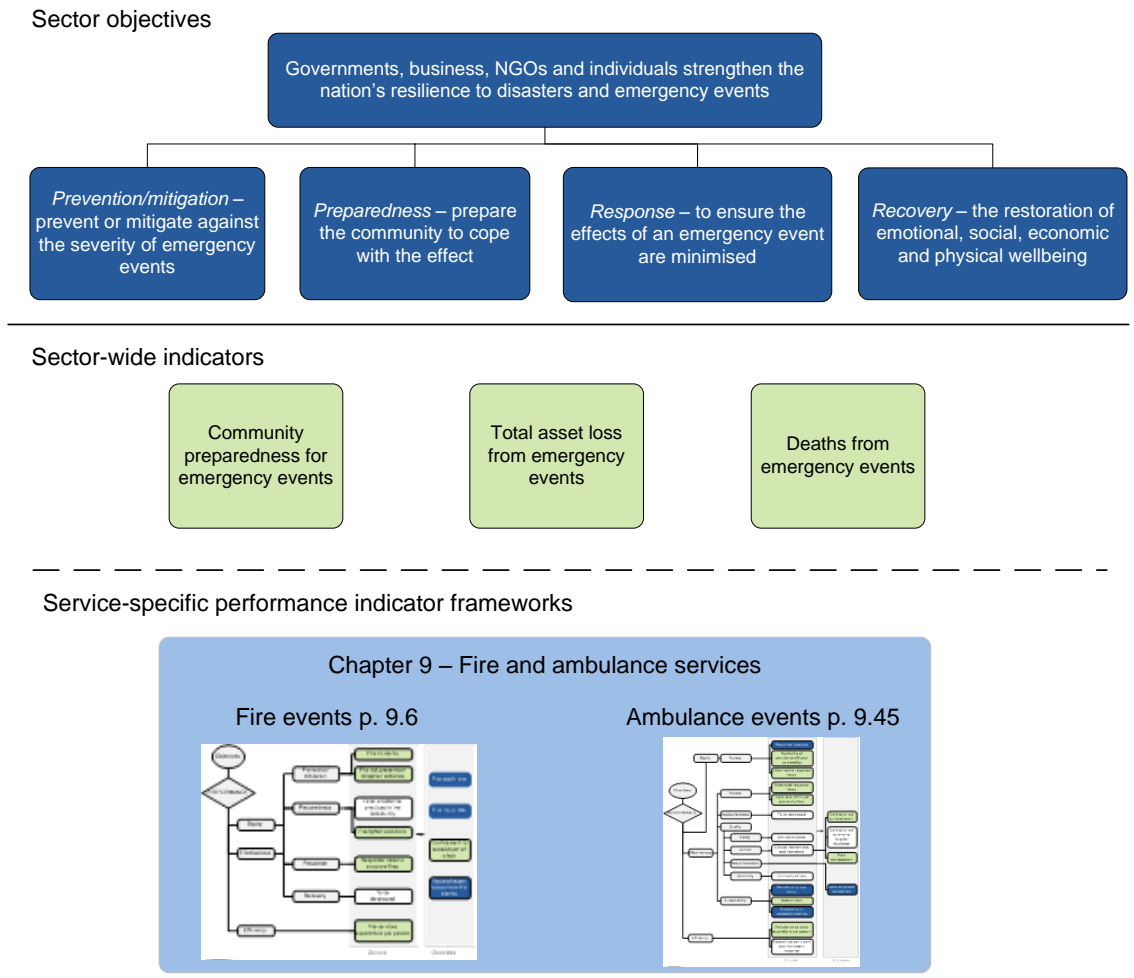
D.2 Sector performance indicator framework

This sector overview is based on a sector performance indicator framework (figure D.4). This framework is made up of the following elements:

- sector objectives — five sector objectives reflect the key objectives of emergency management (box D.3)
- sector-wide indicators — three sector-wide indicators relate to the overarching service sector objectives identified (box D.3)
- information from the service-specific performance indicator frameworks that relate to emergency services. Discussed in more detail in chapter 9, the service-specific frameworks provide comprehensive information on the equity, effectiveness and efficiency of these services.

This sector overview provides an overview of relevant performance information. Chapter 9 and its associated attachment tables provide more detailed information.

Figure D.4 Emergency management sector performance indicator framework



Sector-wide indicators

This section includes high level indicators of emergency management outcomes. Many factors are likely to influence these outcomes — not just the performance of government services. However, these outcomes inform the development of appropriate policies and the delivery of government services.

Data quality information (DQI) is being progressively introduced for all indicators in the Report. The purpose of DQI is to provide structured and consistent information about quality aspects of data used to report on performance indicators, in addition to material in the chapter or sector overview and attachment tables. All DQI for the 2016 Report can be found at www.pc.gov.au/rogs/2016.

Community preparedness for emergency events

‘Community preparedness for emergency events’ is an indicator of the objectives of governments to reduce the adverse effects of emergencies and disasters on the community (including people, property, infrastructure, economy and environment) and to contribute to the management of risks to the community (box D.3).

Box D.3 Community preparedness for emergency events

‘Community preparedness for emergency events’ is defined as the number of people who know what to do to prepare for an emergency and/or have developed an emergency plan (evacuations/meeting places, etc), divided by the total population.

The higher the proportion of the population with emergency management practices followed, the more likely the impact of emergency events will be minimised.

Data reported for this measure are:

- comparable (subject to caveats) across jurisdictions but are only available for one reporting period
- complete (subject to caveats) for the 2011-12 reporting period. All required 2011-12 data are available for all jurisdictions.

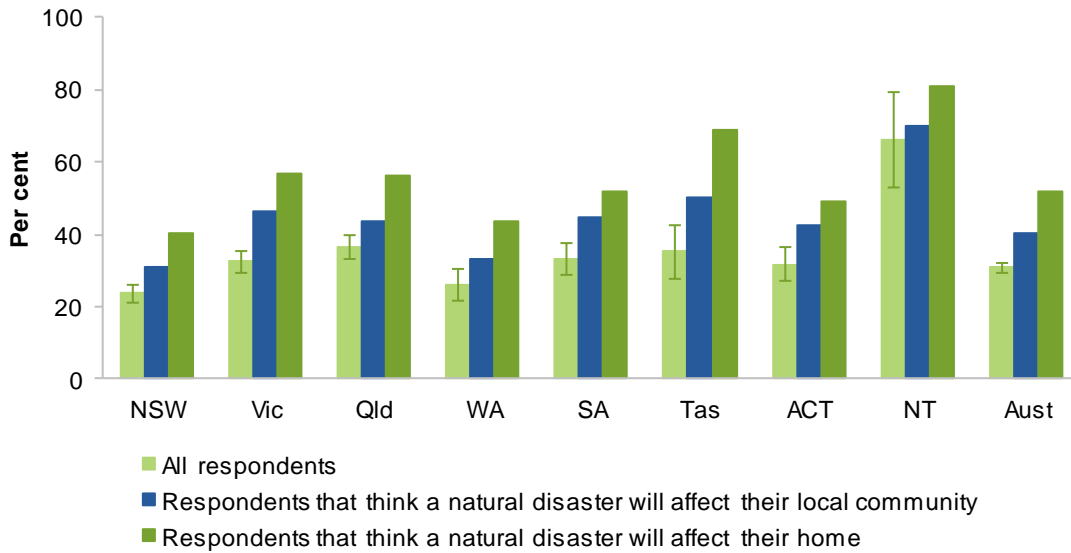
Data quality information for this indicator is at www.pc.gov.au/rogs/2016.

In 2011-12, the Australian Research Council Centre of Excellence in Policing and Security (CEPS) and the Institute for Social Science Research (ISSR) conducted the National Security and Preparedness Survey (NSPS). The NSPS found that nationally in 2011-12, 30.7 per cent of respondents reported that they had developed emergency plans in the event of a natural disaster, while 29.9 per cent of respondents stated that they had ‘a fair bit’ or ‘a lot’ of knowledge of what to do to prepare for natural disasters (table DA.8).

The NSPS results indicate that people were more likely to feel personally prepared for future disasters, where:

- people reported that they perceived it was more likely a natural disaster would affect their home or community. Across jurisdictions in 2011-12, people were more likely to have developed an emergency plan where they perceived that a natural disaster was likely to occur in their community (40.5 per cent nationally) or if they perceived that a natural disaster was likely to affect their home (51.6 per cent nationally) (figure D.5)
- people reported they had a more cohesive community
- people had been present in a previous natural disaster (Ramirez et al. 2013).

Figure D.5 **Proportion of people that have developed emergency plans in the event of a natural disaster, 2011-12^a**



^a See table DA.8 for detailed footnotes and caveats.

Source: Western, M., Mazerolle, L., and Boreham, P. (2012), *National Security and Preparedness Survey 2011-12*; table DA.8.

Total asset loss from emergency events

‘Total asset loss from emergency events’ is an indicator of the objectives of governments to reduce the adverse effects of emergencies and disasters on the community (including people, property, infrastructure, economy and environment) and to contribute to the management of risks to the community (box D.4).

Box D.4 **Total asset loss from emergency events**

'Total asset loss from emergency events' is defined as the insured asset losses incurred by the community following disaster events divided by the total population. Insured asset losses are derived from the submissions of general insurance companies following large events incurring cost to the community and insurers. It does not represent the entire cost of the event. Events are only recorded where there is a potential for the insured loss to exceed \$10 million. Additionally, many large single losses occur on a day to day basis in Australia that are not part of a larger emergency event. Costs not currently taken into account include the expenses of:

- emergency response by emergency services
- for all levels of government — uninsurable assets such as roads, bridges, and recreational facilities are not considered. This is of greatest significance in rural and remote areas
- non-government organisations
- local government clean-up
- remedial and environmental damage costs (including pollution of foreshores and riverbanks and beach erosion)
- community dislocation; loss of jobs; rehabilitation/recovery services
- basic medical and funeral costs associated with injuries and deaths.

The prevention/mitigation, preparedness, and response activities of government contribute to reduce the value of total asset loss from emergency events. A low or decreasing value of total asset loss from emergency events is desirable.

Data for these measures are:

- comparable (subject to caveats) across jurisdictions and over time
- complete (subject to caveats) for the current reporting period. All required 2014-15 data are available for all jurisdictions.

Data quality information for this indicator is at www.pc.gov.au/rogs/2016.

Source: ICA (2014); AEM (2014a).

Nationally in 2014-15, the insured asset loss from emergency events was \$3.6 billion, equating to \$151.85 per person in the population (tables DA.9-10).

Annual insured asset losses need to be interpreted with caution. They can be particularly volatile over time because of the influence of large irregular emergency events such as bushfires (chapter 9) and extreme weather events (box D.5). For most jurisdictions, the value of asset losses can be very low (or zero) in most years, punctuated by large natural disaster events (table DA.10).

In real terms, insured asset losses in 2014-15 were the highest since 2010-11 (table DA.9-10 and figure D.6). Other than in 2008-09 — the year of the Victorian bushfires — insured asset losses are mostly related to flood and storm damage (table DA.9).

Box D.5 Extreme weather events

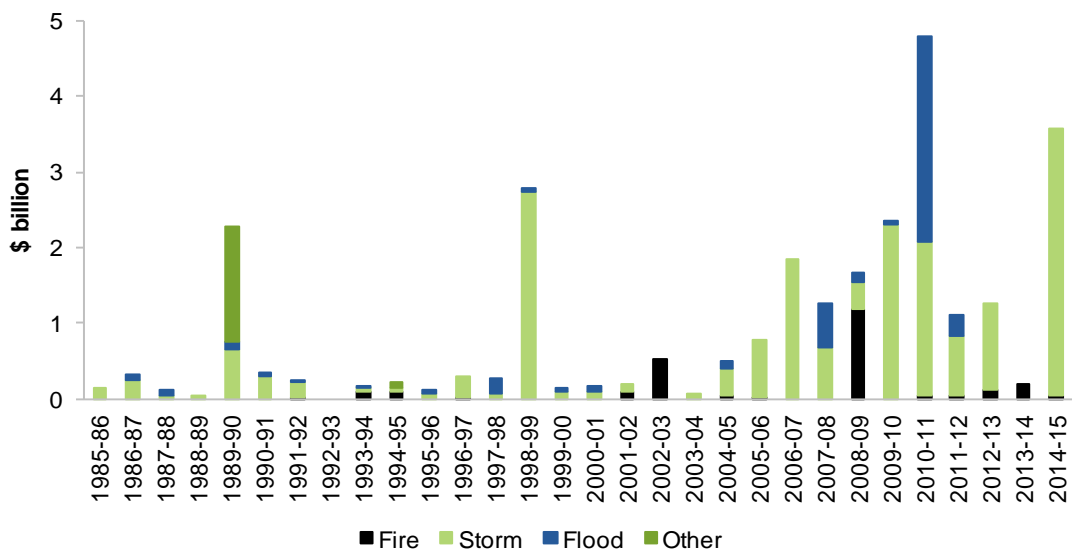
In Australia, extreme weather events can bring high winds and coastal storm surges (such as cyclones), torrential rain, frosts and hail storms. The Commonwealth Scientific and Industrial Research Organisation (CSIRO) predicts that weather events in Australia are likely to be more intense resulting in more severe flooding as a result of climate change (CSIRO 2012).

Natural disasters can have a substantial social and economic cost. Recent examples of extreme weather events leading to insured damages greater than \$1 billion include:

- *Cyclone Oswald* — Tropical Cyclone Oswald formed in the Gulf of Carpentaria on 21 January 2013 and brought with it a heavy monsoonal rainfall system that lasted for approximately one week. Over the course of the week, six people were killed, thousands evacuated, 2000 people were isolated by floodwaters for days (requiring emergency supply drops) and around 40 water rescues took place. The Insurance Council of Australia (ICA) estimated the January 2013 cost at \$119 million for NSW and \$971 million for Queensland.
- *Queensland floods* — Extensive rainfall over large areas of Queensland, led to flooding of historic proportions during December 2010-January 2011. Thirty-three people died in these floods; three remain missing. Some 29 000 homes and businesses suffered some form of inundation. The Queensland Reconstruction Authority has estimated that the cost of flooding events will be in excess of \$5 billion. (The ICA reports insured asset losses of \$2.4 billion.)
- *WA severe thunderstorms* — Severe thunderstorms occurred on 22 March 2010 in the south-west regions of WA. Heavy rain, severe winds and hail, caused considerable damage. The ICA estimated the damage at \$1.1 billion.

Source: CSIRO (2012); AEM (2015a); Queensland Government (unpublished).

Figure D.6 Asset loss from emergency events (2014-15 dollars)^a



^a See table DA.9 for detailed footnotes and caveats.

Source: ICA (2014), AEM (2014a); table DA.9.

Deaths from emergency events

‘Deaths from emergency events’ is an indicator of governments’ objectives to reduce the adverse effects of emergencies and disasters on the community (including people, property, infrastructure, economy and environment) and to enhance public safety (box D.7).

Box D.6 Deaths from emergency events

‘Deaths from emergency events’ is defined as the number of deaths from emergency events per million people in a calendar year. Three categories are presented:

- road traffic deaths — deaths primarily caused by accidents involving road transport vehicles
- fire deaths — deaths primarily caused by exposure to smoke, fire or flames
- deaths from exposure to forces of nature — including exposure to excessive natural heat or cold, exposure to sunlight, victim of lightning, victim of earthquake, victim of volcanic eruption, victim of avalanche, landslide and other earth movements, victim of cataclysmic storm, and victim of flood.

A low or decreasing number of deaths from emergency events is desirable.

Data for these measures are:

- comparable (subject to caveats) across jurisdictions and over time
- complete (subject to caveats) for the current reporting period. All required 2013 data are available for all jurisdictions.

Data quality information for this indicator is under development.

Nationally in 2013, there were 57.9 deaths per million people from emergency events, a decrease from 64.3 deaths per million people in 2012 (table DA.13).

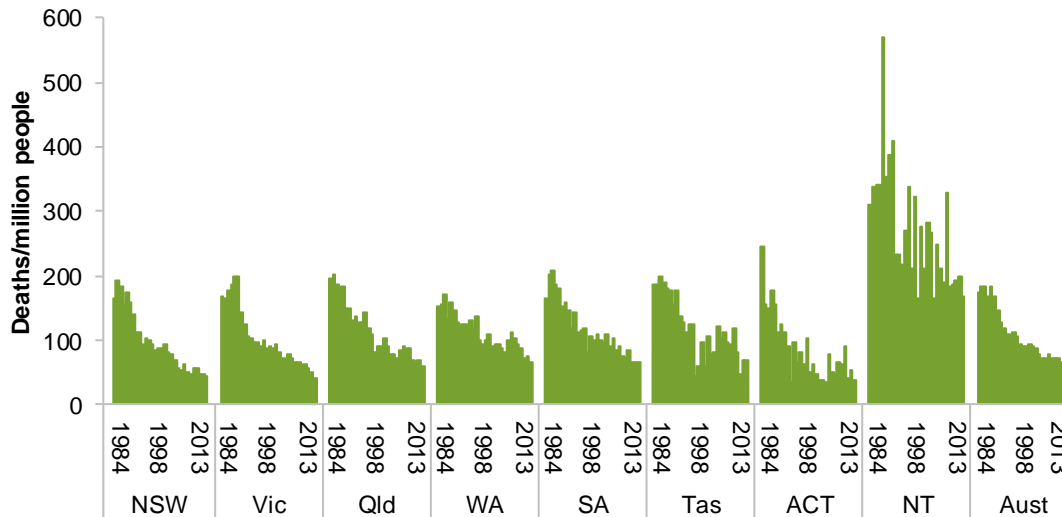
Road traffic deaths

Road crash incidents are the single largest contributor to deaths from emergency events reported, making up over 90 per cent of these deaths (tables DA.11 and DA.13).

A primary aim of governments is to reduce death and injury and the personal suffering and economic costs of road crashes (box D.8). Nationally, over 20 emergency service organisations contribute to this through the provision of effective and efficient medical and road crash rescue services (table DA.1).

From 1984 to 2013, road traffic deaths declined from 172.8 to 52.3 deaths per million people (figure D.7). Road safety gains have been achieved through a range of community and government efforts including: road infrastructure improvements; safer vehicles; lower speed limits; graduated licensing; and behavioural programs targeting drink driving, seatbelt usage and speeding (ATC 2011).

Figure D.7 Road traffic deaths, by State and Territory, 1984 to 2013^a



^a See table DA.11 for detailed footnotes and caveats..

Source: ABS (2015) *Causes of Death, Australia*, Cat. no. 3303.0; table DA.11.

This sector overview provides data on the number of road traffic deaths only, with 1228 deaths recorded in 2013. However, the impact of over 40 000 traffic injuries and traumas in 2013-14 is both ongoing and costly (box D.7 and chapter 6). Information on the role of police services in maximising road safety is provided in the Police services chapter (chapter 6). The number of road crash rescue incidents attended to by emergency service organisations is presented in the Fire and ambulance services chapter (chapter 9).

Box D.7 Road safety in Australia

The cost of road crashes

An evaluation report from the Bureau of Infrastructure, Transport and Regional Economics estimated the cost of road crashes in 2006 at \$17.9 billion (1.7 per cent of GDP). This was a real decrease of 7.5 per cent compared to 1996 (2006 dollars). Estimated human losses were approximately \$2.4 million per fatality, losses for a hospitalised injury were approximately \$214 000 per injury, and losses for non-hospitalised injury were approximately \$2200 per injury.

National Road Safety Strategy 2011–2020

On 20 May 2011, the Standing Council on Transport and Infrastructure released an updated *National Road Safety Strategy 2011–2020*. This strategy aims to elevate Australia’s road safety ambitions through the coming decade and beyond. It is based on Safe System principles and is framed by the guiding vision that no person should be killed or seriously injured on Australia’s roads.

(continued next page)

Box D.7 (continued)

The framework includes 10-year targets for governments to reduce the annual number of road crash fatalities and reduce the annual number of serious road crash injuries by at least 30 per cent in each jurisdiction.

Achieving this aim requires a range of activities, including design and maintenance of vehicles and roads, driver training, road user education, enforcement of road rules, emergency response and health care in the event of an incident.

Source: BITRE (2009); ATC (2011).

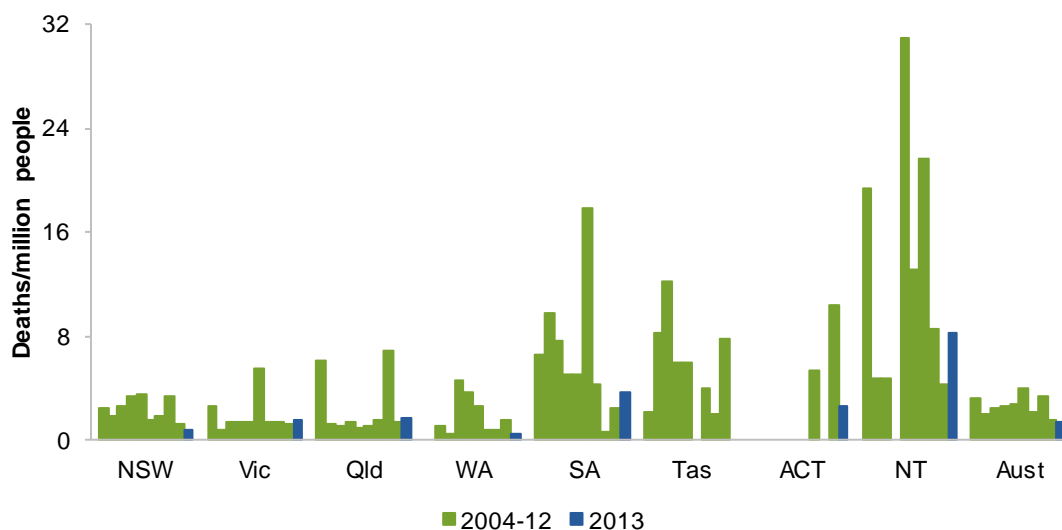
Deaths from exposure to forces of nature

Relatively few deaths (34 deaths in 2013 nationally, or 1.4 deaths per million people in the population) are recorded as being caused by exposure to forces of nature (table DA.12 and figure D.8). Of these deaths:

- 15 people died from exposure to excessive natural cold
- 14 people died from exposure to excessive natural heat (ABS 2015).

(Caution should be taken when interpreting these results as the ABS have randomly assigned values in categories where the number of deaths are low, to protect confidentiality).

Figure D.8 Deaths from exposure to forces of nature, 2004 to 2013^a



^a See table DA.12 for detailed footnotes and caveats..

Source: ABS (2015) *Causes of Death, Australia*, Cat. no. 3303.0; table DA.12.

Research indicates that extremely cold weather conditions and intense and long heatwaves can exceed the capacity of some sections of the community to cope. The impact of these events are likely to be understated in the ABS cause of death statistics, as heat related deaths tend to exacerbate existing medical conditions, particularly in the frail and elderly (Nairn and Fawcett 2013) (box D.8).

Box D.8 Heatwaves in Australia

The Centre for Australian Weather and Climate Research has defined a heatwave as:

A period of at least three days where the combined effect of excess heat and heat stress is unusual with respect to the local climate. Both maximum and minimum temperatures are used in this assessment (Nairn and Fawcett 2013).

Recent heatwave events include:

- January 2014 — In the second week of January 2014, the extreme heat in WA that saw record breaking temperatures of up to 48°C, moved eastwards into SA and Victoria.
 - The Victorian Government estimated that there were 167 deaths in excess of the average expected between 12 and 18 January (AEM 2014a). In Melbourne, 8359 ambulances were dispatched and 621 people presented to emergency departments with heat-related symptoms
 - In SA, the heatwave resulted in 275 people being admitted to hospital for heat-related conditions.
- January 2009 — From 27 January until 8 February a heatwave affected parts of south-eastern Australia.
 - The Victorian Government estimated that there were 374 excess deaths during the week of the heatwave (DHS 2009). Ambulance Victoria metropolitan emergency case load recorded a 25 per cent increase in emergency cases and a 2.8 fold increase in cardiac arrest cases
 - SA similarly recorded increased demand during the heatwave where SA Ambulance Service daily call-outs increased by 16 per cent when compared to previous heatwaves (Nitschke et al. 2011).

Source: AEM (2014a); DHS (2009); Nairn and Fawcett (2013); Nitschke et al. (2011).

Fire deaths

The number of fire deaths varies from year to year, often impacted by large bushfires. In 2013 there were 99 fire deaths nationally (details in chapter 9).

Service-specific performance indicator frameworks

This section summarises information from the ‘fire events’ and ‘ambulance events’ service-specific indicator frameworks in chapter 9. At present it is not possible to report on government services for ‘all-hazards’ (box D.9).

Box D.9 Reporting on all-hazards

While the sector covers a broader array of events, data on all hazards are limited. Many hazards are sporadic in nature (for example floods, cyclones and acts of terrorism) and do not lend themselves to annual, comparative reporting. Resource constraints and data availability also restrict reporting.

Jurisdictions have held inquiries to review and compare government performance following significant emergency events. A review by the Monash Injury Research Institute (2012) of recent disaster inquiries recognised knowledge management (databases, research and evaluation) as a key theme identified in these reports. Recent inquiries include the Tasmanian Bushfires Inquiry (2013), Victorian Bushfires Royal Commission (2009), Perth Hills Bushfire February 2011 Review (Keelty 2011), and the Queensland Floods Commission of Inquiry (2012).

Source: Monash Injury Research Institute (2012).

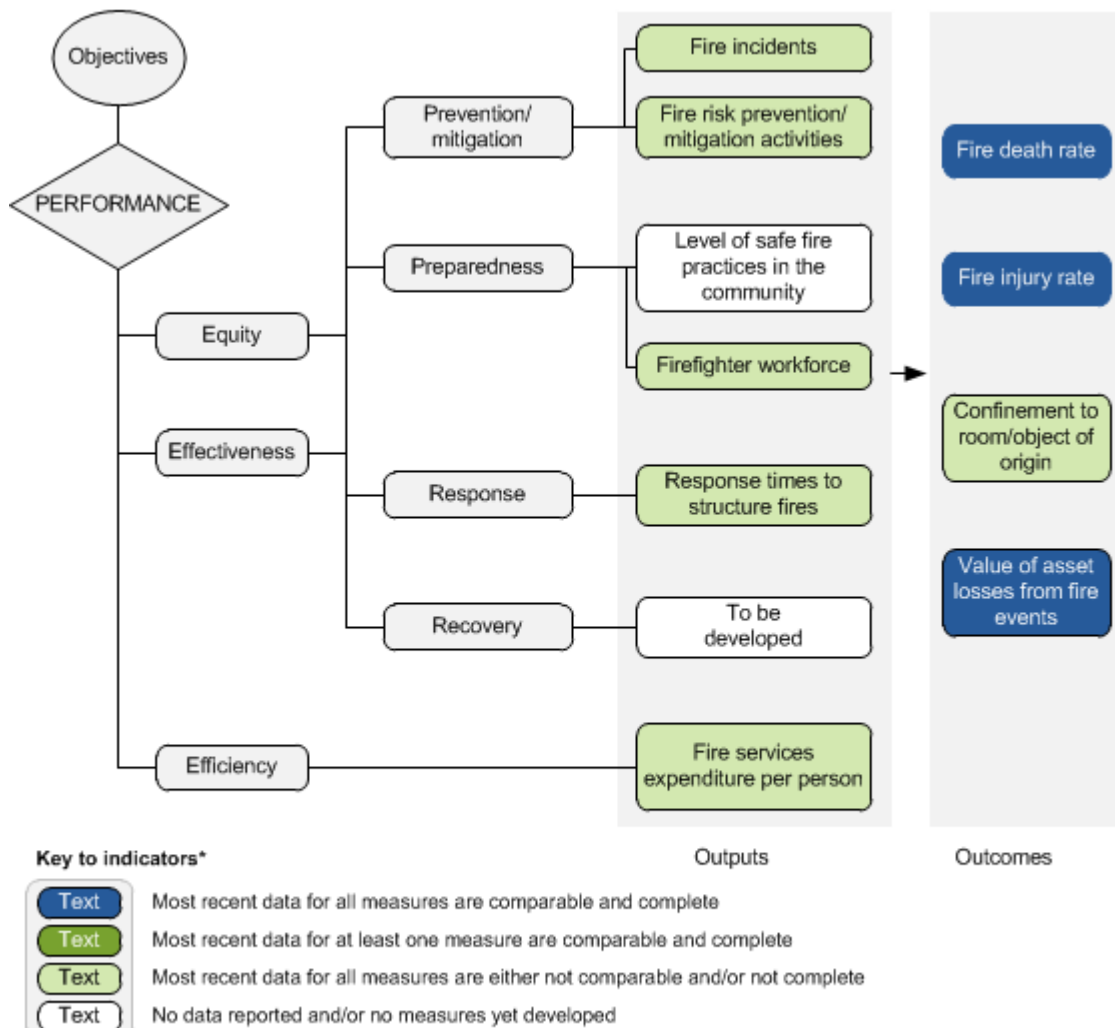
Each performance indicator framework provides comprehensive information on the equity, effectiveness and efficiency of specific government services.

Additional information is available in each chapter and associated attachment tables to assist the interpretation of these results.

Fire events

The performance indicator framework for fire events is presented in figure D.9. An overview of the fire events indicator results are presented in table D.3.

Figure D.9 Fire events performance indicator framework



* A description of the comparability and completeness of each measure is provided in indicator interpretation boxes within the chapter

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Table D.3 Performance indicator results for fire events^{a, b}

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
<u>Equity and effectiveness — prevention/mitigation indicators</u>									
Fire incidents									
Fire incidents attended by fire service organisations per 100 000 people, 2014-15									
Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)									
no.	408	373	400	443	422	669	220	1 154	413
<i>Source:</i> Attachment table 9A.14									
Accidental residential structure fires per 100 000 households, 2014-15									
Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)									
no.	95.2	113.4	46.9	60.2	73.6	112.9	89.1	51.4	84.5
<i>Source:</i> Attachment table 9A.15									
Level of safe fire practices in the community									
Estimated percentage of households with a smoke alarm/detector, 2014-15									
Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)									
%	94.4	97.2	94.9	na	na	na	na	80.0	na
<i>Source:</i> Attachment table 9A.23									
<u>Equity and effectiveness — preparedness indicators</u>									
Firefighter workforce									
Number of firefighting personnel (FTE) per 100 000 people, 2014-15									
Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)									
no.	54.4	80.4	52.9	42.7	52.3	59.4	90.5	115.9	60.5
<i>Source:</i> Attachment table 9A.24									
<u>Equity and effectiveness — response indicators</u>									
Response times to structure fires									
State-wide response times to structure fires, 2014-15									
Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)									
Including call taking time, 90th percentile									
min.	14.1	10.9	12.3	15.2	11.7	17.7	11.0	23.2	na
Excluding call taking time, 90th percentile									
min.	13.2	9.5	11.6	13.6	14.0	16.3	9.0	15.1	na
<i>Source:</i> Attachment tables 9A.27									
<u>Efficiency indicators</u>									
Fire services expenditure per person									
Fire service organisations' expenditure per person, 2014-15									
Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)									
\$	131.63	214.31	129.96	145.61	134.85	157.24	211.64	220.13	156.42
<i>Source:</i> Attachment table 9A.29									

(continued next page)

Table D.3 (continued)

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
Outcome indicators									
Fire death rate									
Fire death rate, per million people, 2013									
Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)									
no.	4.5	4.0	4.9	2.8	4.8	–	2.6	4.2	4.3
<i>Source:</i> Attachment table 9A.6									
Fire injury rate									
Rate of hospital admissions due to fire injury, per 100 000 people, 2013-14									
Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)									
no.	15.1	12.0	19.2	19.3	28.6	15.4	9.6	78.3	17.2
<i>Source:</i> Attachment table 9A.9									
Confinement to room/object of origin									
Proportion of building fires confined to room of origin, all ignition types, 2014-15									
Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)									
%	68.3	71.8	69.5	65.9	66.2	60.4	73.4	94.0	na
<i>Source:</i> Attachment table 9A.10									
Proportion of building and other structure fires confined to room of origin, all ignition types, 2014-15									
Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)									
%	80.4	78.8	83.9	73.6	72.7	72.2	85.7	94.0	na
<i>Source:</i> Attachment table 9A.11									
Value of property losses from fire events									
Value of fire event household insurance claims per person, 2014-15									
Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)									
\$	17.44	20.21	21.52	13.27	31.41	63.11	12.21	15.73	20.38
<i>Source:</i> Attachment table 9A.12									

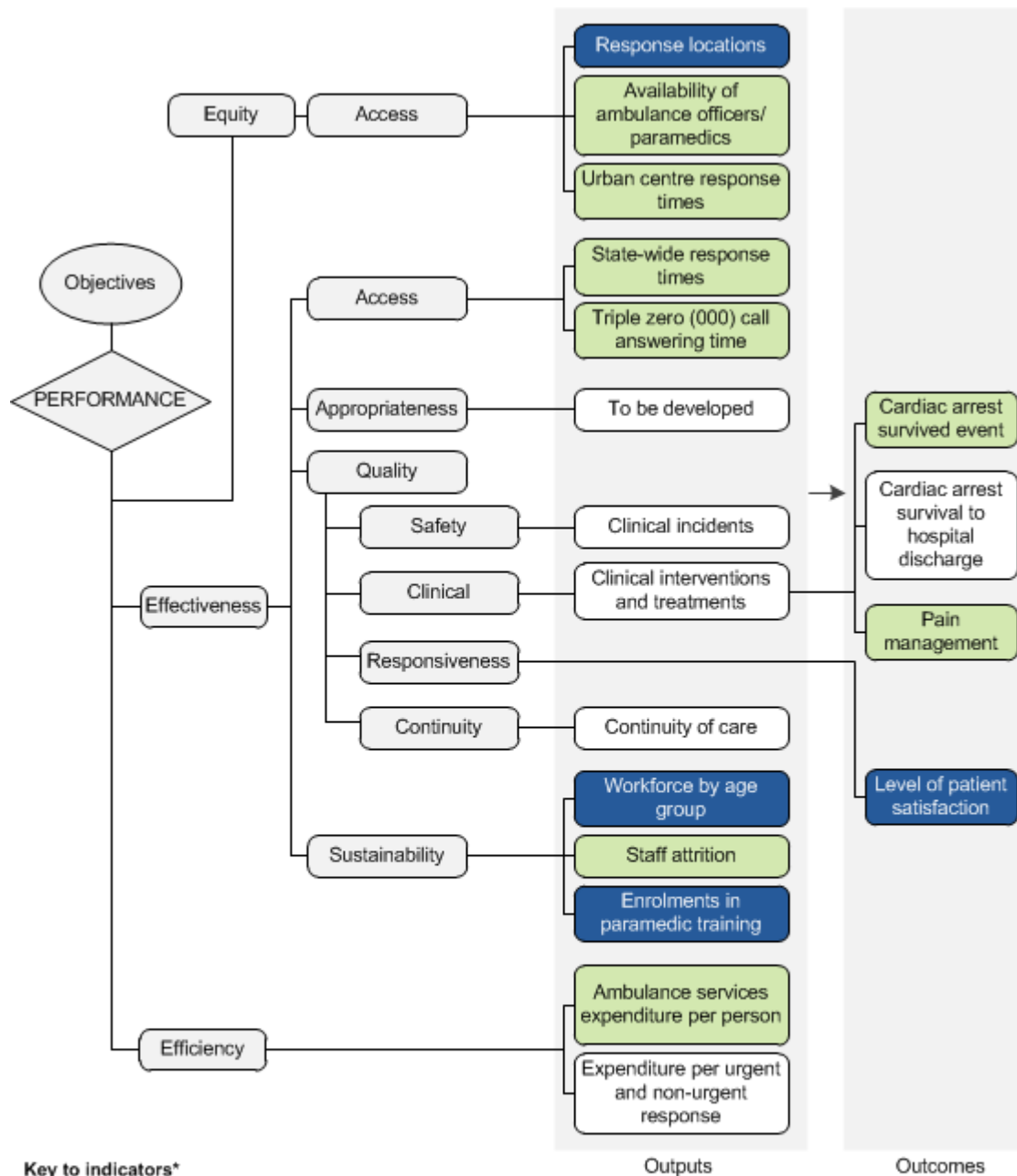
^a Caveats for these data are available in chapter 9 and attachment 9A. Refer to the indicator interpretation boxes in chapter 9 for information to assist with the interpretation of data presented in this table. ^b Some data are derived from detailed data in chapter 9 and attachment 9A. **na** Not available. – Nil or rounded to zero.

Source: Chapter 9 and attachment 9A.

Ambulance events

The performance indicator framework for ambulance events is presented in figure D.10. An overview of the ambulance events indicator results are presented in table D.4.

Figure D.10 Ambulance events performance indicator framework



Key to indicators*

- Text Most recent data for all measures are comparable and complete
- Text Most recent data for at least one measure are comparable and complete
- Text Most recent data for all measures are either not comparable and/or not complete
- Text No data reported and/or no measures yet developed

* A description of the comparability and completeness of each measure is provided in indicator interpretation boxes within the chapter

Table D.4 Performance indicator results for ambulance events^{a, b, c}

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
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Equity — Access indicators

Response locations

Paid, mixed and volunteer locations per 100 000 people, 2014-15

Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)

no.	3.2	4.5	5.6	7.6	6.6	9.7	2.1	3.7	4.9
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Source: Attachment table 9A.38

Availability of ambulance officers/paramedics

Number of full time equivalent ambulance officers/paramedics per 100 000 people, 2014-15

Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)

no.	42.1	50.0	61.5	28.8	45.0	47.7	36.0	37.7	46.7
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Source: Attachment table 9A.35

Urban centre response times

Capital city centre response times, 90th percentile, 2014-15

Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)

min.	21.2	18.3	15.1	14.3	14.7	17.5	12.5	18.2	na
------	------	------	------	------	------	------	------	------	----

Source: Attachment table 9A.44

Effectiveness — Access indicators

State-wide response times

State-wide response times, 90th percentile, 2014-15

Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)

min.	22.9	22.1	16.4	16.8	16.8	24.0	12.5	17.5	na
------	------	------	------	------	------	------	------	------	----

Source: Attachment table 9A.44

Triple zero call answering time

Proportion of calls from the emergency call service answered by ambulance service communication centre staff in a time equal to or less than 10 seconds, 2014-15

Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)

%	86.1	93.8	91.2	94.4	92.3	96.8	95.8	93.4	89.5
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Source: Attachment table 9A.45

Effectiveness — Sustainability indicators

Workforce by age group

Operational workforce under 50 years of age, 2014-15

Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)

%	75.6	77.3	80.0	79.8	75.5	74.5	80.3	85.0	75.2
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Source: Attachment table 9A.36

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Table D.4 (continued)

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
<u>Effectiveness — Sustainability indicators</u>									
Staff attrition									
Staff attrition rate, 2014-15									
Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)									
%	4.0	4.3	2.6	3.3	2.6	6.2	2.8	na	3.6
<i>Source:</i> Attachment table 9A.36									
Paramedics in training									
Enrolments in accredited paramedic training courses, per million people, 2014									
Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)									
no.	106.9	381.6	419.1	295.7	207.0	174.8	414.5	..	271.3
<i>Source:</i> Attachment table 9A.37									
<u>Efficiency indicators</u>									
Expenditure per person									
Ambulance services expenditure per person, 2014-15									
Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)									
\$	115.47	123.26	129.84	86.41	145.65	127.27	114.94	108.90	119.45
<i>Source:</i> Attachment table 9A.47									
<u>Outcome indicators</u>									
Cardiac arrest survived event									
Adult cardiac arrest survival rate — where resuscitation attempted (excluding paramedic witnessed), 2014-15									
Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)									
%	31.1	29.8	25.0	24.5	23.4	29.1	36.9	26.1	28.4
<i>Source:</i> Attachment table 9A.41									
Pain management									
Proportion of patients who report a clinically meaningful pain reduction, 2014-15									
Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)									
%	86.4	90.3	88.7	82.3	64.6	88.3	93.4	86.7	86.5
<i>Source:</i> Attachment table 9A.42									
Level of patient satisfaction									
Overall satisfaction rate, 2015 ^c									
Most recent data for this measure are comparable and complete, subject to caveats (chapter 9)									
%	99	97	98	97	98	98	98	97	98
	± 1.1	± 1.4	± 1.3	± 1.7	± 1.3	± 1.3	± 1.3	± 2.6	± 0.5
<i>Source:</i> Attachment table 9A.43									

^a Caveats for these data are available in chapter 9 and attachment 9A. Refer to the indicator interpretation boxes in chapter 9 for information to assist with the interpretation of data presented in this table. ^b Some data are derived from detailed data in chapter 9 and attachment 9A. ^c The percentages reported for this indicator include 95 per cent confidence intervals. **na** Not available. **..** Not applicable.

Source: Chapter 9 and attachment 9A.

D.3 Cross-cutting and interface issues

The effective development of a ‘resilient community’ — one that works together to understand and manage the risks that it confronts (COAG 2011) — requires the support and input of a range of community stakeholders, including from other government services:

- *Police services* have a critical role in effective emergency management within each jurisdiction. They generally assume critical roles in a jurisdiction’s disaster management plans and coordination authorities (Victorian Bushfires Royal Commission 2010; Queensland Floods Commission of Inquiry 2012).

Police services (and the justice system) have a critical role in implementing the prevention strategies of a jurisdiction — such as enforcing road laws.

- *Health services*, in particular emergency departments of public hospitals, have an important role in the preparation and response to emergency events.

Similarly, ambulance services are an integral part of a jurisdiction’s health service providing emergency as well as non-emergency patient care and transport.

- In large scale emergencies, a range of agencies may be called upon to provide assistance. For example, through Australian Government arrangements for the provision of assistance to states and territories, the Australian Defence Force has been called upon to assist emergency services organisations in responding to emergencies such as the 2011 Queensland floods (Queensland Floods Commission of Inquiry 2012).

Emergency services, police and public hospitals are also key services involved in preventing and dealing with acts of terrorism as set out in Australia’s National Counter Terrorism Plan (NCTC 2012). While this Report does not explicitly include the details of these government activities, such activities need to be kept in mind when interpreting performance results.

Emergency management policies need to consider how government services address populations and communities with special needs. The National Strategy for Disaster Resilience recognises that the needs of vulnerable communities should be considered in developing emergency management plans and programmes. ANZEMC has also identified the resilience of vulnerable sections of society (including Aboriginal and Torres Strait Islander Australians, culturally and linguistically diverse communities, children and youth, the elderly and people with disability) as a priority area for action (COAG 2012).

Remote Indigenous communities face complex emergency management risks and challenges. The 2007 *Keeping Our Mob Safe: The National Emergency Management Strategy For Remote Indigenous Communities* provides a framework for coordinated and cooperative approaches to emergency management in remote indigenous communities (AEM 2007). The strategy is currently under review to ensure that it remains up-to-date and continues to meet the needs of Indigenous communities. The capacity of remote Indigenous communities to improve their disaster resilience is also supported by a pilot of

community based and community led emergency management training across central, northern and north-west Australia. This training will build local capacity, help communities refine local emergency management plans and improve service delivery by emergency management organisations.

D.4 Future directions in performance reporting

This emergency management sector overview will continue to be developed in future reports. There are several important national initiatives currently underway. These include:

- development of risk registers that assess the likelihood and potential impacts of particular emergency events
- development of a database and report on the economic costs of natural disasters
- development of measures and indicators to assess communities' resilience to natural disasters
- development of a national reporting framework against the UN *Sendai Framework for Disaster Risk Reduction, 2015-2030*, once indicators are agreed at the international level.

The Fire and ambulance services chapter (chapter 9) contains a service-specific section on future directions in performance reporting.

D.5 List of attachment tables

Attachment tables are identified in references throughout this sector overview by a 'DA' prefix (for example, table DA.1). Attachment tables are available on the website (www.pc.gov.au/rogs/2016).

Emergency management

Table DA.1	Summary of emergency management organisations by event type
Table DA.2	Major sources of emergency service organisations' revenue, 2014-15
Table DA.3	Emergency service organisations' costs, 2014-15
Table DA.4	Emergency services human resources, 2014-15
Table DA.5	Australian Government Natural Disaster Resilience Program, funding to State and Territory governments (\$ million) (2014-15 dollars)
Table DA.6	Australian Government Natural Disaster Relief and Recovery Arrangements expenses, funding to State and Territory governments (\$ million) (2014-15 dollars)
Table DA.7	Australian Government disaster recovery payments to eligible communities, business, families and individuals by state or territory of the declared natural disaster event (\$ million) (2014-15 dollars)
Table DA.8	National security and preparedness survey, 2011-12
Table DA.9	Asset loss from emergency events (\$ million) (2014-15 dollars)
Table DA.10	Asset loss from emergency events, per person (2014-15 dollars)
Table DA.11	Road traffic death rate
Table DA.12	Exposure to forces of nature death rate
Table DA.13	Total selected emergency events death rate

State and Territory Emergency Services

Table DA.14	All activities of State and Territory Emergency Services
Table DA.15	Major sources of State and Territory Emergency Service organisations' revenue (2014-15 dollars)
Table DA.16	State and Territory Emergency Service organisations' costs (\$'000) (2014-15 dollars)
Table DA.17	State and Territory Emergency Service organisations' human resources
Table DA.18	State and Territory Emergency Service incidents
Table DA.19	State and Territory Emergency Service hours in attendance

D.6 References

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DA Emergency management — attachment

Un sourced information was obtained from the Australian, State and Territory governments, with the assistance of the Australasian Fire and Emergency Service Authorities Council and the Council of Ambulance Authorities.

Data in this Report are examined by the Emergency Management Working Group, but have not been formally audited by the Secretariat.

Data reported in the attachment tables are the most accurate available at the time of data collection. Historical data may have been updated since the last edition of RoGS.

This file is available on the Review web page (www.pc.gov.au/gsp).

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TABLE DA.1

Table DA.1 **Summary of emergency management organisations by event type (a), (b)**

<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aus Gov (c)</i>
Fires								
Fire and Rescue NSW	Metropolitan Fire Brigade	Queensland Fire and Emergency Services	Department of Fire and Emergency Services	Country Fire Service	Tasmania Fire Service	ACT Emergency Services Agency	NT Fire and Rescue Service	Airservices Australia (Rescue and Fire Fighting Service)
NSW Rural Fire Service	Country Fire Authority	Qld Police Service		Metropolitan Fire Service	Forestry Tasmania	ACT Fire and Rescue	Bushfires NT	Department of Defence
NSW Police Force	Department of Environment Land Water & Planning	Department of Natural Resources and Mines	Department of Parks and Wildlife		Parks and Wildlife			
NSW Ambulance		Department of National Parks, Recreation, Sport and Racing	Forest Products Commission			ACT Rural Fire Service	Aviation Rescue and Fire Fighting Authority	Attorney-General's Department
Office of Environment and Heritage	Parks Victoria	Department of Agriculture, Fisheries and Forestry	Department for Child Protection and Family Support			Canberra Urban Parks and Places		Bureau of Meteorology
	Gas distribution companies	Local government	WA Police Service			Territory and Municipal Services Directorate	Parks and Wildlife	Australian Building Codes Board
		Qld Ambulance Service	Local governments					Department of Infrastructure and Regional Development
		Queensland Government Air rescue service (QGAir), Public Safety Business Agency (PSBA)						

TABLE DA.1

Table DA.1 **Summary of emergency management organisations by event type (a), (b)**

<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aus Gov (c)</i>
Ambulance attendances/services								
NSW Ambulance	Ambulance Victoria	Qld Ambulance Service	St John Ambulance Department of Fire and Emergency Services	SA Ambulance Service	Ambulance Tasmania	ACT Emergency Services Agency	St John Ambulance	Department of Health — National Incident Room
NSW Health Helicopter Rescue Services (under ambulance control)	Metropolitan Fire Brigade	Queensland Government Air rescue service (QGAir), Public Safety Business Agency (PSBA)	Royal Flying Doctor Service Department of Fire and Emergency Services/St John Ambulance - Rescue Helicopter Service			ACT Ambulance Service	Royal Flying Doctor Service Territory Health Service	Attorney-General's Department (Australian Medical Transport Coordination Group)
Road crash rescues								
Fire and Rescue NSW	Metropolitan Fire Brigade	Queensland Fire and Emergency Services	WA Police Service	State Emergency Service	Tasmania Fire Service	ACT Fire and Rescue	NT Fire and Rescue Service	
NSW Police Force		Qld SES	Department of Fire and Emergency Services	Metropolitan Fire Service	State Emergency Service		NT Emergency Services	
NSW Ambulance	Country Fire Authority	Qld Ambulance Service						
NSW SES Volunteer Rescue Association	Victoria SES	Qld Police Service	St John Ambulance	Country Fire Service				

TABLE DA.1

Table DA.1 **Summary of emergency management organisations by event type (a), (b)**

<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aus Gov (c)</i>
Rescues (other)								
Fire and Rescue NSW	Metropolitan Fire Brigade	Queensland Fire and Emergency Services	WA Police Service	State Emergency Service	Tasmania Police	ACT Emergency Services Agency	NT Fire and Rescue Service	Australian Maritime Safety Authority
NSW Police Force	Country Fire Authority	Qld SES	Department of Fire and Emergency Services	Metropolitan Fire Service	State Emergency Service	ACT Fire and Rescue	NT Emergency Services	Department of Defence
NSW Ambulance	Victoria SES	Qld Ambulance Service		Country Fire Service	Tasmania Fire Service	Australian Federal Police	NT Police	Australian Customs and Border Protection Service
NSW SES	Victoria Police	Qld Police Service	St John Ambulance	SA Police		ACT State Emergency Service		
Volunteer Rescue Association	Ambulance Victoria		Department of Fire and Emergency Services/St John Ambulance - Rescue Helicopter Service	SA Ambulance Service	Ambulance Tasmania			
Mines Rescue Service	Municipal councils	Queensland Government Air rescue service (QGAir), Public Safety Business Agency (PSBA)		State Rescue Helicopter Service				
Marine Rescue NSW	Victorian Building Authority							
Natural events								
State Emergency Service	Victoria State Emergency Service	Local government Qld Police Service	Department of Fire and Emergency Services	Functional Services and Hazard Leader's as per State Emergency Management Plan	State Emergency Service	ACT State Emergency Service	NT Emergency Service	Attorney-General's Department
NSW Police Force	Victoria Police	Qld SES			Department of Police and Public Safety		NT Police	Department of Infrastructure and Regional Development
Fire and Rescue NSW	Metropolitan Fire Brigade	Queensland Fire and Emergency Services	WA Police Service		Tasmania Fire Service	Australian Federal Police	NT Fire and Rescue Service	
NSW Rural Fire Service	Country Fire Authority	Qld Ambulance Service	Department for Child Protection and Family Support			ACT Fire and Rescue	Parks and Wildlife	Geoscience Australia
NSW Ambulance	Municipal councils	Department of the Premier and Cabinet	Department of Mineral and Petroleum Resources		Ambulance Tasmania	ACT Emergency Service	Local Councils	Bureau of Meteorology
		Department of Natural Resources and Mines	Department of Agriculture		Local government authorities	Territory and Municipal Services		Department of Defence

TABLE DA.1

Table DA.1 Summary of emergency management organisations by event type (a), (b)

<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aus Gov (c)</i>
Natural events (continued)								
Volunteer Rescue Association		Department of Communities, Child Safety and Disability Services	Department of Health		Department of Health and Human Services	ACT Ambulance Service		Australian Building Codes Board
Department of Finance and Services		Department of Health	Department of Water Water Corporation			ACT Rural Fire Service		All Australian Government Agencies under the Australian Government Crisis Management Framework
Department of Primary Industry		Department of Transport and Main Roads	Department for Planning and Infrastructure		Department of Primary Industries, Water and Environment			
NSW Environment Protection Authority			Local governments		Tasmania Police			
Transport for NSW		Department of Agriculture, Fisheries and Forestry	Bureau of Meteorology		Department of Premier and Cabinet			
Department of Premier and Cabinet		Department of Environment and Heritage Protection	Main Roads WA					
NSW Treasury			Department of Parks and Wildlife					
Department of Family and Community Services		Department of State Development, Infrastructure and Planning	Port Authorities					
Mines Rescue Service		Department of Housing and Public Works						
NSW Health								
Local government authorities		Department of Energy and Water Supply						
Ministry for Police and Emergency Services								

TABLE DA.1

Table DA.1 Summary of emergency management organisations by event type (a), (b)

NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Aus Gov (c)
Technological and hazardous material incidents								
Fire and Rescue NSW	Metropolitan Fire Brigade	Queensland Fire and Emergency Services	Department of Fire and Emergency Services	Functional Services and Hazard Leader's as per State Emergency Management Plan	Department of Primary Industries, Water and Environment	ACT Fire and Rescue	NT Fire and Rescue Service	Australian Maritime Safety Authority
NSW Rural Fire Service	Country Fire Authority	Department of Justice and Attorney-General, Hazardous Industries and Chemicals Branch	WA Police Service			Australian Federal Police	NT Police	Department of Infrastructure and Regional Development
NSW Environment Protection Authority	Victoria Police		Department of Health		Tasmania SES	Environment Protection Authority	Department of Health	
NSW Police Force	Ambulance Victoria	Department of Transport and Main Roads	Department for Planning and Infrastructure	SA Ambulance Service			St John Ambulance	Attorney-General's Department
NSW Health	Department of Health and Human Services	Department of Health			Department of Police and Public Safety	Health Directorate	MBT	Airservices Australia
NSW Ambulance		Qld Ambulance Service Qld Police Service	Department of Mineral and Petroleum Resources				Northern Territory Emergency Service	Civil Aviation Safety Authority
National Oil Spill Committee	Vic Workcover Authority	Department of Environment and Heritage Protection	Department of Environment Regulation		Ambulance Tasmania			Australian Transport Safety Bureau
Port Corporations Oil Companies	Environmental Protection Authority	Department of Agriculture, Fisheries and Forestry	St John Ambulance		Department of Health and Human Services		WorkSafe NT	Department of Defence
Department of Environment and Climate Change NSW	Marine Board (Vic Channels, Local Ports Operators)		Water Corporation Alinta Gas Port Authorities Industry Emergency Response Groups		Local government authorities			Department of Health
	Department of Environment Land Water & Planning				Department of Infrastructure, Energy and Resources			Australian Radiation Protection and Nuclear Safety Agency
	Parks Victoria				Tasmania Police			Australian Customs and Border Protection Service
								Department of

TABLE DA.1

Table DA.1 **Summary of emergency management organisations by event type (a), (b)**

<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aus Gov (c)</i> Agriculture
Quarantine and disease control								
NSW Health	Department of Environment Land Water & Planning	Department of Health	Department of Health	Functional Services and Hazard Leader's as per State Emergency Management Plan	Department of Primary Industries, Water and Environment (Quarantine)	Health Directorate Environment ACT	NT Emergency Service	Department of Health
Department of Primary Industry		Queensland Fire and Emergency Services	Department of Agriculture				Territory Health Service	Biosecurity Australia
Water Authorities	(Water Agencies and Agriculture)	Department of National Parks, Recreation, Sport and Racing	Water Corporation			ACT Electricity and Water		
NSW Police Force	Municipal councils		Department of Fire and Emergency Services				NT Police	Australian Customs and Border Protection Service
NSW Environment Protection Authority					Department of Health and Human Services		Transport and Works Department	
Fire and Rescue NSW	Department of Health & Human Services (Public Health)						Department Primary Industry and Fisheries	Attorney-General's Department
		Department of Transport and Main Roads						Department of Agriculture
		Local government						
		Department of Energy and Water Supply						Department of Foreign Affairs and Trade
		Department of Environment and Heritage Protection						
		Qld Police Service						

TABLE DA.1

Table DA.1 **Summary of emergency management organisations by event type (a), (b)**

<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aus Gov (c)</i>
Emergency relief and recovery								
State Emergency Management Committee	Municipal councils	Local government Queensland Reconstruction Authority	Department for Child Protection and Family Support	Functional Services and Hazard Leader's as per State Emergency Management Plan	Department of Health and Human Services (Community and Rural Health)	ACT Emergency Services Agency	Northern Territory Emergency Service	Department of Social Services
NSW Police Force	Department of Health & Human Services (Public Health)	Department of Communities, Child Safety and Disability Services	Utility agencies Department of Health			Community Services Directorate	Department of Health	Centrelink Department of Infrastructure and Regional Development
Department of Finance and Services	Church/ charitable organisations		Department of the Premier and Cabinet		Department of Infrastructure Energy and Resources	Territory and Municipal Services Directorate	Government departments	
Department of Family and Community Services	Victoria SES	Department of Housing and Public Works	Local governments					Attorney-General's Department
Department of Premier and Cabinet	Victoria Police		Insurance Council of Australia		Local government Tasmania SES	ACT State Emergency Service		
NSW Treasury	Department of Environment Land Water & Planning	Department of State Development, Infrastructure and Planning	Department of Treasury		Tasmania Police			
NSW Health								
Department of Primary Industry	Vic Roads	Department of Transport and Main Roads	Department Agriculture and Food		Department of Premier and Cabinet			
Ministry for Police and Emergency Services	Utility companies	Department of Energy and Water Supply	Department of Water			Department of Primary Industries, Parks, Water and Environment		
Department of Transport		Department of Agriculture, Fisheries and Forestry	Department Mineral and Petroleum Resources					
Department of Education and Communities		Department of Environment and Heritage Protection	Department for Planning and Infrastructure		Department of Economic Development			

Table DA.1 **Summary of emergency management organisations by event type (a), (b)**

<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aus Gov (c)</i>
Community Relations Commission		Queensland Fire and Emergency Services						
Emergency relief and recovery (continued)								
Ministry for Police and Emergency Services		Qld SES Department of Health						
Local government authorities		Queensland Police Service Utility agencies						

- (a) The scope of this table is primary response agency or agencies (that is government agencies with legislative responsibility). Non-government agencies that provide support, but do not have a direct legislative responsibility, are not included.
- (b) Organisations are ordered by level of involvement in each event type, except for the column under the heading of Australian Government. That is, the first mentioned organisation for each jurisdiction under each event type is the most involved combating organisation, the second mentioned is the second main combating organisation, through to the last mentioned, which is the most minor combating organisation listed (and there may be other organisations with a role, more minor again which are not listed).
- (c) Emergency Management Australia, within the Attorney-Generals Department, is the central coordinating Australian Government agency for any hazard, at the request of the jurisdictions. Deployment of interstate SES volunteers is managed by the Australian Council of SES (ACSES).

Source: Australian, State and Territory governments (unpublished).

Table DA.2 Major sources of emergency service organisations revenue, 2014-15 (a), (b)

	<i>Unit</i>	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
Total ambulance, fire and emergency service organisations										
Revenue										
Government grants/contributions (c)	\$m	903.8	990.0	561.3	182.9	133.1	55.0	102.1	64.9	2 993.1
Total levies	\$m	719.6	590.0	435.5	289.7	212.9	53.9	–	–	2 301.6
User/Transport charges	\$m	263.7	238.2	167.9	109.8	91.7	20.4	5.5	2.8	900.0
Subscriptions and other income (d)	\$m	75.9	100.3	62.3	34.2	34.3	7.5	5.8	1.2	321.5
Total	\$m	1 963.0	1 918.5	1 227.0	616.6	472.0	136.7	113.5	68.9	6 516.3
Total revenue per person	\$	259.47	325.91	258.30	238.89	279.06	265.32	292.81	281.99	275.82
Ambulance service organisations										
Revenue										
Government grants/contributions (c)	\$m	590.7	475.9	471.5	120.8	127.2	48.0	36.8	23.3	1 894.2
Total levies	\$m	–	–	–	–	–	–	–	–	–
User/Transport charges	\$m	223.1	170.8	114.2	100.4	86.0	9.3	5.5	2.8	712.2
Subscriptions and other income (d)	\$m	24.3	78.5	10.0	30.3	30.9	–	0.8	1.2	175.9
Total	\$m	838.1	725.1	595.7	251.5	244.1	57.3	43.2	27.3	2 782.3
Total revenue per person	\$	110.77	123.19	125.40	97.42	144.32	111.23	111.40	111.94	117.77
Fire and emergency service organisations (Fire and SES)										
Revenue										
Government grants/contributions (c)	\$m	313.1	514.1	89.8	62.2	5.9	7.0	65.3	41.5	1 098.9
Total levies	\$m	719.6	590.0	435.5	289.7	212.9	53.9	–	–	2 301.6
User/Transport charges	\$m	40.6	67.4	53.7	9.4	5.6	11.1	–	–	187.8
Subscriptions and other income (d)	\$m	51.6	21.8	52.4	3.9	3.4	7.5	5.0	–	145.6
Total	\$m	1 124.9	1 193.3	631.3	365.2	227.9	79.4	70.3	41.5	3 733.9
Total revenue per person	\$	148.69	202.73	132.89	141.48	134.74	154.09	181.41	170.05	158.05
State/Territory emergency service (SES) organisations (e)										

Table DA.2 Major sources of emergency service organisations revenue, 2014-15 (a), (b)

	Unit	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Aust
Revenue										
Government grants/contributions (c)	\$m	37.0	50.8	9.1	na	0.9	0.7	2.0	2.8	103.2
Total levies	\$m	66.4	–	–	na	14.8	–	–	–	81.2
User/Transport charges	\$m	..	..	..	..	..	..	..	..	..
Subscriptions and other income (d)	\$m	2.7	3.9	0.2	na	0.2	4.8	0.2	–	11.9
Total	\$m	106.0	54.8	9.3	na	15.8	5.5	2.1	2.8	196.3
Total revenue per person	\$	14.01	9.30	1.95	na	9.36	10.68	5.52	11.51	8.31
Fire service organisations										
Revenue										
Government grants/contributions (c)	\$m	276.1	463.3	80.7	62.2	5.0	6.3	63.4	38.7	995.7
Total levies	\$m	653.3	590.0	435.5	289.7	198.1	53.9	–	–	2 220.4
User/Transport charges	\$m	40.6	67.4	53.7	9.4	5.6	11.1	–	na	187.8
Subscriptions and other income (d)	\$m	49.0	17.9	52.1	3.9	3.3	2.7	4.8	na	133.7
Total	\$m	1 019.0	1 138.6	622.1	365.2	212.1	73.9	68.2	38.7	3 537.7
Total revenue per person	\$	134.68	193.43	130.95	141.48	125.37	143.41	175.88	158.54	149.74

(a) Population data used to derive rates are as at 31 December. Estimated Resident Population (ERP) data are on the 2011 Census of Population and Housing. Estimates for 2013 are preliminary. See chapter 2 (table 2A.2) for details.

(b) Other income is equal to the sum of subscriptions, donations and miscellaneous revenue.

(c) Government grants/contributions includes Australian Government grants, Local government grants, and indirect government funding.

(d) Caveats for the fire service organisation and ambulance service organisation funding data are available in chapter 9 and attachment 9A. Caveats for the SES organisation data are available in table DA.15.

(e) WA: The DFES provides a wide range of emergency services under an integrated management structure. Data cannot be segregated by service. State Emergency Service financial data are consolidated and included in the financial data reported for the WA fire service organisation.

na Not available. – Nil or rounded to zero. .. Not applicable.

Source: State and Territory governments; ABS (unpublished), *Australian Demographic Statistics*, Cat. no. 3101.0 (table 2A.2).

ABS (Australian Bureau of Statistics) 2015, Australian National Accounts: National Income, Expenditure and Product, June 2015, Cat. no. 5206.0, Canberra.

Table DA.3 **Emergency service organisations costs, 2014-15 (a), (b), (c)**

	<i>Unit</i>	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Total</i>
Total ambulance, fire and emergency service organisations										
Labour costs - Salaries and payments in the nature of salaries	\$m	1 232.7	1 052.5	752.7	321.2	297.0	93.0	81.8	51.8	3 882.8
Capital costs (d)										
Depreciation	\$m	70.7	107.6	37.6	29.9	27.7	9.2	6.9	5.2	294.8
User cost of capital - Other	\$m	57.3	209.6	27.1	27.9	31.3	8.8	7.2	6.0	375.3
Other costs (e)	\$m	604.9	671.1	426.0	219.9	134.1	40.8	33.7	21.1	2 151.7
Total costs (f)	\$m	1 965.6	2 040.8	1 243.4	598.9	490.2	151.9	129.5	84.2	6 704.5
Total costs per person	\$	259.81	346.70	261.74	232.03	289.81	294.78	334.16	344.71	283.82
Other expenses										
Labour costs - Payroll tax	\$m	30.2	27.0	–	–	6.0	2.6	–	1.6	67.4
User cost of capital - Land	\$m	22.3	127.3	8.4	10.4	6.5	2.0	1.9	0.7	179.4
Interest on borrowings	\$m	–	–	–	2.9	–	–	–	–	3.4
Ambulance service organisations										
Labour costs - Salaries and payments in the nature of salaries	\$m	599.2	465.0	425.1	136.6	166.8	45.3	29.0	19.0	1 885.9
Capital costs (d)										
Depreciation	\$m	18.0	25.9	32.8	14.3	9.2	2.7	1.3	1.4	105.7
User cost of capital - Other	\$m	15.8	19.5	25.5	9.0	4.6	2.0	0.9	–	77.5
Other costs (e)	\$m	240.5	215.2	133.4	63.2	65.8	15.6	13.4	6.0	753.1
Total costs (f)	\$m	873.6	725.6	616.8	223.1	246.4	65.6	44.6	26.6	2 822.1
Total costs per person	\$	115.47	123.26	129.84	86.41	145.65	127.27	114.94	108.90	119.47
Other costs										
Labour costs - Payroll tax	\$m	–	–	–	–	–	–	–	–	–
User cost of capital - Land	\$m	9.9	6.2	8.4	2.6	1.4	0.6	0.6	–	29.6
Interest on borrowings	\$m	–	–	–	–	–	–	–	–	–

Table DA.3 **Emergency service organisations costs, 2014-15 (a), (b), (c)**

	<i>Unit</i>	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Total</i>
Fire and emergency service organisations (FSO and SES)										
Labour costs - Salaries and payments in the nature of salaries	\$m	633.5	587.6	327.6	184.6	130.2	47.7	52.8	32.8	1 996.9
Capital costs (d)										
Depreciation	\$m	52.7	81.7	4.8	15.6	18.5	6.5	5.6	3.9	189.2
User cost of capital - Other	\$m	41.4	190.1	1.6	19.0	26.7	6.8	6.3	5.8	297.7
Other costs (e)	\$m	364.4	455.9	292.6	156.7	68.4	25.2	20.4	15.1	1 398.6
Total costs (f)	\$m	1 091.9	1 315.2	626.6	375.9	243.8	86.3	85.0	57.6	3 882.4
Total costs per person	\$	144.33	223.44	131.91	145.61	144.16	167.51	219.23	235.81	164.35
Other expenses										
<i>Labour costs - Payroll tax</i>	\$m	30.2	27.0	–	–	6.0	2.6	–	1.6	67.4
<i>User cost of capital - Land</i>	\$m	12.4	121.1	–	7.8	5.1	1.4	1.3	0.7	149.8
<i>Interest on borrowings</i>	\$m	–	–	–	2.9	–	–	–	–	3.4
State/Territory emergency service (SES) organisations										
Labour costs - Salaries and payments in the nature of salaries	\$m	31.7	19.6	1.6	na	4.4	2.4	1.1	1.7	62.6
Capital costs (d)										
Depreciation	\$m	4.0	6.4	–	na	1.5	–	–	0.6	12.9
User cost of capital - Other	\$m	2.1	4.9	na	na	2.6	–	–	–	10.5
Other costs (e)	\$m	58.3	22.8	7.6	na	7.3	2.9	1.0	1.0	101.0
Total costs (f)	\$m	96.1	53.7	9.3	na	15.7	5.3	2.9	3.8	186.9
Total costs per person	\$	12.70	9.13	1.95	na	9.31	10.27	7.58	15.68	7.91
Other expenses										
<i>Labour costs - Payroll tax</i>	\$m	1.7	0.9	–	na	–	–	–	–	2.7
<i>User cost of capital - Land</i>	\$m	..	0.7	–	na	–	–	–	–	1.3
<i>Interest on borrowings</i>	\$m	–	–	–	na	–	–	–	–	–

Table DA.3 **Emergency service organisations costs, 2014-15 (a), (b), (c)**

	<i>Unit</i>	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Total</i>
Fire service organisations (FSO)										
Labour costs - Salaries and payments in the nature of salaries	\$m	601.8	567.9	326.0	184.6	125.8	45.4	51.7	31.1	1 934.3
Capital costs (d)										
Depreciation	\$m	48.7	75.3	4.8	15.6	17.1	6.5	5.1	3.2	176.3
User cost of capital - Other	\$m	39.4	185.2	1.6	19.0	24.1	6.8	5.8	5.4	287.3
Other costs (e)	\$m	306.0	433.1	284.9	156.7	61.1	22.3	19.4	14.1	1 297.6
Total costs (f)	\$m	995.8	1 261.5	617.4	375.9	228.1	81.0	82.0	53.8	3 695.5
Total costs per person	\$	131.63	214.31	129.96	145.61	134.85	157.24	211.64	220.13	156.42
Other expenses										
<i>Labour costs - Payroll tax</i>	\$m	28.5	26.1	..	–	5.8	2.6	–	1.6	64.6
<i>User cost of capital - Land</i>	\$m	12.4	120.4	–	7.8	4.8	1.4	1.1	–	148.5
<i>Interest on borrowings</i>	\$m	–	–	–	2.9	–	–	–	–	3.1

- (a) Population data used to derive rates are as at 31 December. Estimated Resident Population (ERP) data are on the 2011 Census of Population and Housing. Estimates for 2013 are preliminary. See chapter 2 (table 2A.2) for details.
- (b) Caveats for the fire service organisation data and ambulance service organisation expenditure data are available in chapter 9 and attachment 9A. Caveats for the SES organisation data are available in table DA.16.
- (c) Figures vary from year to year as a result of abnormal expenditure related to response to specific major emergencies.
- (d) The user cost of capital is partly dependent on depreciation and asset revaluation methods employed. Details of the treatment of assets by emergency management agencies across jurisdictions are outlined in table 9A.50.
- (e) Includes the running, training, maintenance, communications, provisions for losses and other recurrent costs.
- (f) Total costs excludes payroll tax, the user cost of capital associated with land, and interest on borrowings.

na Not available. – Nil or rounded to zero.

Source: State and Territory governments; ABS (unpublished), *Australian Demographic Statistics*, Cat. no. 3101.0 (table 2A.2).

Table DA.4 **Emergency services human resources, 2014-15 (a), (b), (c), (d)**

		<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
Total ambulance, fire and emergency service organisations										
Salaried personnel										
Operational	FTE	na	7 881	6 052	2 034	1 887	608	538	417	na
Support personnel	FTE	na	2 958	1 021	863	499	267	166	70	na
Total	FTE	10 146	10 839	7 073	2 897	2 386	874	704	487	35 406
Per 100 000 people		134.1	184.1	148.9	112.2	141.1	169.7	181.5	199.4	149.9
Volunteers										
Operational	no.	122	41 102	176	32 790	1 251	568	1 817	537	5 990
Support volunteers	no.	28	21 265	1	1 152	192	–	–	859	221
Total	no.	92 648	62 367	41 077	33 942	16 947	6 142	1 817	1 715	256 655
Community first responders (ambulance)	no.	256	404	171	200	44	47	–	–	1 122
Ambulance service organisations										
Salaried personnel										
Operational	FTE	3 809	3 092	3 540	932	970	292	179	121	12 935
Support personnel	FTE	672	938	489	460	306	76	61	40	3 041
Total	FTE	4 481	4 030	4 029	1 392	1 276	367	240	161	15 976
Per 100 000 people		59.2	68.5	84.8	53.9	75.4	71.3	61.8	65.9	67.6
Volunteers										
Operational	no.	122	905	176	2 968	1 251	568	–	–	5 990
Support volunteers	no.	28	–	1	na	192	na	na	na	221
Total	no.	150	905	177	2 968	1 443	568	–	–	6 211
Community first responders	no.	256	404	171	200	44	47	na	na	1 122
Fire and emergency service organisations (Fire and SES)										
Salaried personnel										
Operational	FTE	na	4 789	2 512	1 102	917	316	359	296	na

Table DA.4 **Emergency services human resources, 2014-15 (a), (b), (c), (d)**

		<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
Support personnel	FTE	na	2 020	532	403	193	191	105	30	na
Total	FTE	5 665	6 809	3 044	1 505	1 110	507	464	326	19 430
Per 100 000 people		74.9	115.7	64.1	58.3	65.6	98.4	119.7	133.5	82.2
Volunteers										
Operational	no.	na	40 197	na	29 822	na	na	1 817	537	na
Support volunteers	no.	na	21 265	na	1 152	na	na	–	859	na
Total	no.	92 498	61 462	40 900	30 974	15 504	5 574	1 817	1 715	250 444
State/Territory emergency service (SES) organisations										
Salaried personnel										
Operational	FTE	na	57	na	na	33	10	8	13	na
Support personnel	FTE	na	127	na	na	11	15	–	6	na
Total	FTE	297	184	na	na	44	25	8	19	na
Per 100 000 people		3.9	3.1	na	na	2.6	4.9	2.1	7.8	na
Volunteers										
Operational	no.	na	3 374	na	1 977	na	na	279	na	na
Support volunteers	no.	na	627	na	56	na	na	–	na	na
Total	no.	9 663	4 001	5 900	2 033	1 668	529	279	319	24 392
Fire service organisations										
Salaried personnel										
Operational	FTE	4 114	4 732	2 512	1 102	884	306	351	283	14 284
Support personnel	FTE	1 254	1 893	532	403	182	176	105	24	4 569
Total	FTE	5 368	6 625	3 044	1 505	1 066	482	456	307	18 853
Per 100 000 people		71.0	112.5	64.1	58.3	63.0	93.5	117.6	125.7	79.8
Volunteers										
Operational	no.	72 511	36 823	na	27 845	10 734	4 003	1 538	537	na
Support volunteers	no.	10 324	20 638	na	1 096	3 102	1 042	–	859	na

Table DA.4 **Emergency services human resources, 2014-15 (a), (b), (c), (d)**

		<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
Total	no.	82 835	57 461	35 000	28 941	13 836	5 045	1 538	1 396	226 052

- (a) Population data used to derive rates are as at 31 December. Estimated Resident Population (ERP) data are on the 2011 Census of Population and Housing. Estimates for 2013 are preliminary. See chapter 2 (table 2A.2) for details.
- (b) Caveats for the fire service organisation data and ambulance service organisation human resource data are available in chapter 9 and attachment 9A. Caveats for the SES organisation data are available in table DA.17.
- (c) In Qld and WA fire and emergency service salaried personnel have cross hazard responsibilities and are not broken down between fire and SES roles. For Australian totals, salaried personnel is provided for Fire and emergency services, but not for fire service organisations and SES organisations separately.
- (d) NSW, Qld, SA and the NT report total volunteers, but are unable to separately identify operational and support volunteers. For Australian totals, data are not available for operational and support volunteers.

na Not available. – Nil or rounded to zero.

Source: State and Territory governments; ABS (unpublished), *Australian Demographic Statistics*, Cat. no. 3101.0 (table 2A.2); Chapter 9.

Table DA.5 **Australian Government National Partnership Agreement on Natural Disaster Resilience, funding to State and Territory governments (\$ million) (2014-15 dollars) (a), (b), (c), (d)**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas (e)</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
2014-15	6.8	4.2	6.0	3.1	1.0	1.3	1.3	2.0	25.7
2013-14	3.5	2.1	6.1	3.2	1.1	0.7	0.7	0.7	17.9
2012-13	7.0	4.3	3.1	1.6	2.2	3.9	1.3	1.3	24.8
2011-12	6.9	4.3	6.2	3.2	2.2	5.7	1.4	1.4	31.3
2010-11	7.3	4.2	6.5	3.3	3.1	1.6	1.6	0.4	28.0
2009-10	12.2	3.8	7.4	3.5	5.0	1.2	1.6	2.5	38.2

(a) Time series financial data are adjusted to 2014-15 dollars using the General Government Final Consumption Expenditure (GGFCE) chain price deflator (2014-15 = 100) (table DA.20). See table 2A.48 and chapter 2 (sections 2.5-6) for more information.

(b) Data presented are the accrual expenses.

(c) Totals may not sum as a result of rounding.

(d) The National Partnership Agreement began in the 2009-10 financial year, replacing the Bushfire Mitigation and Natural Disaster Mitigation programs. Data for the 2009-10 financial year is the net position for these three programs.

(e) The amounts for Tasmania in the 2011-12 and 2012-13 financial years include funding for the Launceston Flood Levee, which was funded under the National Disaster Resilience Program.

Source: Australian Government (unpublished); ABS 2015, Australian National Accounts: National Income, Expenditure and Product, June 2015, Cat. no. 5206.0 (table 2A.48).

Table DA.6 **Australian Government Natural Disaster Relief and Recovery Arrangements, funding to State and Territory governments (\$ million) (2014-15 dollars) (a), (b), (c), (d)**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
2014-15	5.2	3.4	422.8	3.3	0.5	–	–	86.7	521.8
2013-14	58.9	5.3	315.7	2.2	0.2	0.3	–	1.3	383.9
2012-13	108.5	50.7	1 780.9	2.8	0.1	7.6	–	0.5	1 951.0
2011-12	56.1	47.7	1 432.3	12.0	–	0.2	–	4.8	1 553.1
2010-11	243.9	288.0	5 778.0	157.8	3.3	3.7	–	17.6	6 492.3
2009-10	6.9	4.8	103.1	–	–	0.7	–	3.0	178.7

(a) Time series financial data are adjusted to 2014-15 dollars using the General Government Final Consumption Expenditure (GGFCE) chain price deflator (2014-15 = 100) (table DA.20). See table 2A.48 and chapter 2 (sections 2.5-6) for more information.

(b) Totals may not sum as a result of rounding.

(c) State and Territory expenditure on eligible events under the Natural Disaster Relief and Recovery Arrangements can be made within 24 months after the end of the financial year in which the relevant disaster occurred unless an extension is granted. Therefore, costs reported for any given financial year may include payments for events that occurred in the previous years. Costs for specific events are not finalised until the claim period has passed. For accounting purposes, the Australian Government budget paper calculates expenditure as the present value of future payments expected to be made to the States and Territories governments under the Natural Disaster Relief and Recovery Arrangements.

(d) Data from 2011–12 are accrual figures sourced from Final Budget Outcome papers.

– Nil or rounded to zero.

Source: Australian Government (2014 and previous), Final budget outcome, Commonwealth of Australia, Canberra; ABS 2015, Australian National Accounts: National Income, Expenditure and Product, June 2015, Cat. no. 5206.0 (table 2A.48).

Table DA.7 Australian Government disaster recovery payments to eligible individuals by State or Territory of the declared major disaster (\$ million) (2014-15 dollars) (a), (b), (c), (d), (e), (f), (g), (h), (i)

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
2014-15	93.6	–	10.5	0.3	0.5	–	–	2.8	107.6
2013-14	1.1	–	–	0.4	–	–	–	–	1.6
2012-13	19.1	–	151.4	–	–	8.4	–	–	179.0
2011-12	54.3	9.0	13.3	–	–	–	–	–	76.5
2010-11	16.5	45.3	921.8	9.5	–	–	–	–	993.1
2009-10	–	5.0	12.0	0.5	–	–	–	–	17.5

(a) Time series financial data are adjusted to 2014-15 dollars using the General Government Final Consumption Expenditure (GGFCE) chain price deflator (2014-15 = 100) (table DA.20). See table 2A.48 and chapter 2 (sections 2.5-6) for more information.

(b) Data presented are the total cash payments.

(c) Payments relate to the overall administered expenditure for a disaster event from 2008-09 to 2013-14. Included are payments under the Australian Government disaster recovery payment (AGDRP), New Zealand ex gratia payment (ex gratia), the Disaster Income Recovery Subsidy (DIRS), and the Disaster Recovery Allowance (DRA). For a summary of eligible disaster events see www.disasterassist.gov.au.

(d) Data have been allocated to the state/territory where the disaster event occurred. This may differ from the state of residence of the recipients.

(e) Data have been allocated to the financial year in which the disaster event occurred. This may differ from the financial year in which payment were made.

(f) Data exclude events where there are fewer than 20 claimants or where there is less than \$20 000 of total claims paid.

(g) Figures are based on the 2008-09 to 2009-10 data that have been extracted from the end of financial year report and the summary of AGDRP and Ex-Gratia Assistance, 2010-11 data have been extracted from the end of financial year report, the Summary of AGDRP and Ex-Gratia Assistance table and Closed events summary due to appeal payments for 2008-09 & 2009-10 events, 2011-12, 2012-13, 2013-14 has been extracted from the end of financial year reports provided by the Department of Human Services.

(h) Prior to 2010 disaster assistance payments were administered by FaHCSIA (now known as DSS).

(i) The appropriation for DRA was administered by DSS until March 2014.

– Nil or rounded to zero.

Source: Australian Government (unpublished); ABS 2015, Australian National Accounts: National Income, Expenditure and Product, June 2015, Cat. no. 5206.0 (table 2A.48).

Table DA.8 National security and preparedness survey, 2011-12 (a), (b), (c)

	<i>Unit</i>	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
Number of respondents	no.	1 122	885	791	390	431	159	378	50	4 257
Proportion of people that think that a natural disaster is likely to occur in the next 6 months:										
Somewhere in the local community	%	49.2	47.1	63.5	55.6	43.4	45.3	41.3	66.0	50.7
That will affect their own home	%	18.7	20.8	30.6	25.4	18.8	18.2	15.1	52.0	22.1
Precautions in the event of a natural disaster										
Proportion of people that have undertaken the following precautions in the event of a natural disaster:										
Developed emergency plans (evacuations/meeting places)	%	23.7	32.4	36.3	25.9	33.2	35.2	31.7	66.0	30.7
95% confidence interval (d)	±	2.5	3.1	3.4	4.3	4.4	7.4	4.7	13.1	1.4
Stockpiled supplies	%	11.9	12.4	42.7	16.7	12.3	15.1	13.8	54.0	19.0
Purchased things to make you (or your home) safer	%	11.1	12.5	28.3	14.6	11.4	13.2	19.6	50.0	16.2
At least one of the above	%	31.2	37.2	56.3	34.1	37.1	42.1	39.9	74.0	39.6
Proportion of people that have developed emergency plans and think that a natural disaster is likely to occur in the next six months:										
Somewhere in the local community	%	31.2	46.5	43.6	33.0	44.9	50.0	42.3	69.7	40.5
That will affect their own home	%	40.5	56.5	56.2	43.4	51.9	69.0	49.1	80.8	51.6
Knowledge of what to do in the event of a natural disaster										
Proportion of people that have 'a fair bit' or 'a lot' of knowledge of:										
The different kinds of natural disasters in Australia	%	50.6	52.9	58.2	47.7	48.0	47.8	57.1	70.0	52.4
What the government has done to prepare for natural disasters	%	13.3	15.3	20.0	13.1	13.0	11.9	18.3	30.0	15.5
What to do to prepare for natural disasters	%	25.0	29.4	41.0	26.2	25.8	23.3	31.2	58.0	29.9
Where to get information about preparing for natural disasters	%	20.7	25.8	33.2	20.8	21.8	16.4	32.5	52.0	25.3
Where to get information when a warning is issued for a natural disaster	%	23.8	29.0	41.8	25.4	24.8	27.0	35.2	64.0	30.0
What the government recommends you do to protect yourself against a natural disaster	%	17.3	23.1	35.5	16.2	19.3	22.0	30.2	54.0	23.6
Proportion of people that have 'a fair bit' or 'a lot' of knowledge what to do to prepare for a natural disasters and think that a natural disaster is likely to occur in the next six months:										

Table DA.8 **National security and preparedness survey, 2011-12 (a), (b), (c)**

	<i>Unit</i>	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
Somewhere in the local community	%	30.6	37.4	46.6	31.8	31.6	23.6	39.1	66.7	36.7
That will affect their own home	%	31.4	39.1	54.1	28.3	37.0	24.1	40.4	76.9	40.2

- (a) The National Security and Preparedness Survey (NSPS) aims to benchmark attitudes and perceptions of Australians towards national security policy and seeks to better understand citizen preparedness for potential terrorist and natural disasters.
- (b) The NSPS was conducted between November 2011 and May 2012. A series of floods in northern New South Wales and southern Queensland in January and February 2012 may have influenced respondent perceptions about, and/or actions around, disaster preparedness.
- (c) The survey was designed to produce descriptive statistics and these may not be representative of the population.
- (d) The percentages reported for the Proportion of people that have developed emergency plans (evacuations/meeting places) include 95 per cent confidence intervals (for example, 40.0 per cent \pm 2.7 per cent) (in the form of error bars in figures and percentages in tables). Confidence intervals have been calculated for this Report on the assumption that a random sample of the population was selected.

Source: Western, M., Mazerolle, L., & Boreham, P. (2012), *National Security and Preparedness Survey 2011-2012*, Brisbane: Institute for Social Science Research and the Australian Research Council Centre of Excellence in Policing and Security, The University of Queensland, 2012.

Table DA.9 **Asset loss from emergency events (\$ million) (2014-15 dollars) (a), (b), (c)**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
2014-15									
Fire	–	–	–	–	36.6	–	–	–	36.6
Storm	1 689.0	–	1 862.0	–	–	–	–	–	3 551.0
Flood	–	–	–	–	–	–	–	–	–
Other	–	–	–	–	–	–	–	–	–
Total	1 689.0	–	1 862.0	–	36.6	–	–	–	3 587.6
2013-14									
Fire	186.6	–	–	15.3	–	–	–	–	201.9
Storm	–	–	–	–	–	–	–	–	–
Flood	–	–	–	–	–	–	–	–	–
Other	–	–	–	–	–	–	–	–	–
Total	186.6	–	–	15.3	–	–	–	–	201.9
2012-13									
Fire	36.5	–	–	–	–	92.7	–	–	129.2
Storm	126.4	–	1 018.0	–	–	–	–	–	1 144.4
Flood	–	–	–	–	–	–	–	–	–
Other	–	–	–	–	–	–	–	–	–
Total	162.9	–	1 018.0	–	–	92.7	–	–	1 273.6
2011-12									
Fire	–	–	–	56.9	–	–	–	–	56.9
Storm	–	774.7	–	–	–	–	–	–	774.7
Flood	120.4	19.8	139.7	–	–	–	–	–	280.0
Other	–	–	–	–	–	–	–	–	–
Total	120.4	794.5	139.7	56.9	–	–	–	–	1 111.6
2010-11									
Fire	–	–	–	37.9	–	–	–	–	37.9
Storm	–	526.5	1 524.9	–	–	–	–	–	2 051.4
Flood	–	136.6	2 578.1	–	–	–	–	–	2 714.7
Other	–	–	–	–	–	–	–	–	–
Total	–	663.1	4 103.1	37.9	–	–	–	–	4 804.1
2009-10									
Fire	–	–	–	–	–	–	–	–	–
Storm	–	1 149.9	–	1 159.9	–	–	–	–	2 309.8
Flood	–	–	51.4	–	–	–	–	–	51.4
Other	–	–	–	–	–	–	–	–	–
Total	–	1 149.9	51.4	1 159.9	–	–	–	–	2 361.2
2008-09									
Fire	–	1 198.9	–	–	–	–	–	–	1 198.9
Storm	–	–	346.2	–	–	–	–	–	346.2
Flood	95.2	–	21.3	–	–	–	–	–	116.5
Other	–	–	–	–	–	–	–	–	–
Total	95.2	1 198.9	367.5	–	–	–	–	–	1 661.6
2007-08									
Fire	–	–	–	–	–	–	–	–	–

Table DA.9 **Asset loss from emergency events (\$ million) (2014-15 dollars) (a), (b), (c)**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
Storm	554.8	54.2	42.6	–	16.5	5.2	–	–	673.3
Flood	10.9	17.5	566.7	–	–	–	–	–	595.1
Other	–	–	–	–	–	–	–	–	–
Total	565.7	71.7	609.3	–	16.5	5.2	–	–	1 268.4
2006-07									
Fire	–	–	–	–	–	–	–	–	–
Storm	1 844.3	–	–	9.6	–	–	–	–	1 853.9
Flood	–	–	–	–	–	–	–	–	–
Other	–	–	–	–	–	–	–	–	–
Total	1 844.3	–	–	9.6	–	–	–	–	1 853.9
2005-06									
Fire	–	27.9	–	–	–	–	–	–	27.9
Storm	–	–	747.3	–	–	–	–	–	747.3
Flood	–	–	–	–	–	–	–	–	–
Other	–	–	–	–	–	–	–	–	–
Total	–	27.9	747.3	–	–	–	–	–	775.2
2004-05									
Fire	–	–	–	–	35.5	–	–	–	35.5
Storm	132.6	98.5	22.6	68.2	30.5	9.6	6.5	–	368.5
Flood	32.0	–	69.1	–	–	–	–	–	101.1
Other	–	–	–	–	–	–	–	–	–
Total	164.6	98.5	91.6	68.2	66.0	9.6	6.5	–	505.1
2003-04									
Fire	–	–	–	–	–	–	–	–	–
Storm	17.7	13.1	37.5	–	–	1.3	0.9	–	70.4
Flood	–	–	–	–	–	–	–	–	–
Other	–	–	–	–	–	–	–	–	–
Total	17.7	13.1	37.5	–	–	1.3	0.9	–	70.4
2002-03									
Fire	33.4	16.1	–	–	–	–	468.2	–	517.7
Storm	–	–	–	–	–	–	–	–	–
Flood	–	–	–	–	–	–	–	–	–
Other	–	–	–	–	–	–	–	–	–
Total	33.4	16.1	–	–	–	–	468.2	–	517.7
2001-02									
Fire	47.3	–	–	–	–	–	47.3	–	94.6
Storm	109.7	–	–	–	–	–	–	–	109.7
Flood	–	–	–	–	–	–	–	–	–
Other	–	–	–	–	–	–	–	–	–
Total	157.0	–	–	–	–	–	47.3	–	204.3
2000-01									
Fire	–	–	–	–	–	–	–	–	–
Storm	87.2	–	–	–	–	–	–	–	87.2
Flood	35.2	–	52.0	–	–	–	–	–	87.2

Table DA.9 **Asset loss from emergency events (\$ million) (2014-15 dollars) (a), (b), (c)**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
Other	–	–	–	–	–	–	–	–	–
Total	122.3	–	52.0	–	–	–	–	–	174.4
1999-00									
Fire	–	–	–	–	–	–	–	–	–
Storm	66.3	–	38.3	–	–	–	–	–	104.6
Flood	–	14.7	17.7	–	–	–	–	–	32.4
Other	–	–	–	–	–	–	–	–	–
Total	66.3	14.7	56.0	–	–	–	–	–	137.1
1998-99									
Fire	–	–	–	–	–	–	–	–	–
Storm	2 541.5	–	148.0	52.3	–	–	–	–	2 741.8
Flood	59.8	–	–	–	–	–	–	–	59.8
Other	–	–	–	–	–	–	–	–	–
Total	2 601.3	–	148.0	52.3	–	–	–	–	2 801.6
1997-98									
Fire	–	–	–	–	–	–	–	–	–
Storm	69.9	–	–	–	–	–	–	–	69.9
Flood	–	–	107.8	–	–	–	–	106.3	214.2
Other	–	–	–	–	–	–	–	–	–
Total	69.9	–	107.8	–	–	–	–	106.3	284.0
1996-97									
Fire	–	15.4	–	–	–	–	–	–	15.4
Storm	297.1	–	–	–	–	–	–	–	297.1
Flood	–	–	–	–	–	–	–	–	–
Other	–	–	–	–	–	–	–	–	–
Total	297.1	15.4	–	–	–	–	–	–	312.4
1995-96									
Fire	–	–	–	–	–	–	–	–	–
Storm	15.5	–	62.0	–	–	–	–	–	77.5
Flood	24.0	–	24.0	–	–	–	–	–	48.1
Other	–	–	–	–	–	–	–	–	–
Total	39.5	–	86.1	–	–	–	–	–	125.6
1994-95									
Fire	–	–	93.6	–	–	–	–	–	93.6
Storm	45.9	–	–	17.4	–	–	–	–	63.3
Flood	–	–	–	–	–	–	–	–	–
Other	58.9	–	–	–	–	–	–	–	58.9
Total	104.8	–	93.6	17.4	–	–	–	–	215.8
1993-94									
Fire	94.9	–	–	–	–	–	–	–	94.9
Storm	–	–	–	59.5	–	–	–	–	59.5
Flood	–	19.3	–	–	–	–	–	–	19.3
Other	–	–	–	–	–	–	–	–	–
Total	94.9	19.3	–	59.5	–	–	–	–	173.7

Table DA.9 **Asset loss from emergency events (\$ million) (2014-15 dollars) (a), (b), (c)**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
1992-93									
Fire	-	-	-	-	-	-	-	-	-
Storm	-	-	-	-	-	-	-	-	-
Flood	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
1991-92									
Fire	19.9	-	-	-	-	-	-	-	19.9
Storm	195.8	-	-	-	-	-	-	-	195.8
Flood	-	39.8	-	-	-	-	-	-	39.8
Other	-	-	-	-	-	-	-	-	-
Total	215.7	39.8	-	-	-	-	-	-	255.5
1990-91									
Fire	-	-	-	-	-	-	-	-	-
Storm	234.5	20.3	-	-	50.8	-	-	-	305.7
Flood	-	-	54.2	-	-	-	-	-	54.2
Other	-	-	-	-	-	-	-	-	-
Total	234.5	20.3	54.2	-	50.8	-	-	-	359.9
1989-90									
Fire	-	-	-	-	-	-	-	-	-
Storm	563.4	35.3	58.3	-	-	-	-	-	657.0
Flood	17.7	17.7	70.6	-	-	-	-	-	106.0
Other	1 522.4	-	-	-	-	-	-	-	1 522.4
Total	2 103.4	53.0	128.9	-	-	-	-	-	2 285.3
1988-89									
Fire	-	-	-	-	-	-	-	-	-
Storm	4.9	-	43.9	-	-	-	-	-	48.7
Flood	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	4.9	-	43.9	-	-	-	-	-	48.7
1987-88									
Fire	-	-	-	-	-	-	-	-	-
Storm	-	-	-	39.9	-	-	-	-	39.9
Flood	49.9	-	-	-	-	-	-	20.0	69.9
Other	-	-	-	-	-	-	-	-	-
Total	49.9	-	-	39.9	-	-	-	20.0	109.8
1986-87									
Fire	-	-	-	-	-	-	-	-	-
Storm	219.8	-	-	-	21.1	-	-	-	240.9
Flood	74.0	-	-	-	-	-	-	-	74.0
Other	-	-	-	-	-	-	-	-	-
Total	293.8	-	-	-	21.1	-	-	-	314.9
1985-86									
Fire	-	-	-	-	-	-	-	-	-

Table DA.9 **Asset loss from emergency events (\$ million) (2014-15 dollars) (a), (b), (c)**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
Storm	57.1	–	91.4	–	–	–	–	–	148.5
Flood	–	–	–	–	–	–	–	–	–
Other	–	–	–	–	–	–	–	–	–
Total	57.1	–	91.4	–	–	–	–	–	148.5

(a) Time series financial data are adjusted to 2014-15 dollars using the Domestic Final Demand (DFD) deflator (2014-15 = 100) (table DA.20). The DFD deflator is preferred to the General Government Final Consumption Expenditure deflator for this table, as asset losses are more closely aligned to the range of consumption and capital goods rather than general government consumption. (The index has been modelled for 1984-85 and 1985-86 using the DFD implicit price deflator.)

(b) Costs not taken into account: emergency response by emergency services; local, State, Territory and Commonwealth governments; non-government organisations; local government clean-up; remedial and environmental damage costs (including pollution of foreshores and riverbanks and beach erosion); community dislocation; loss of jobs; rehabilitation/recovery services; and basic medical and funeral costs associated with injuries and deaths.

(c) Total Asset Loss: all insurance losses (claims by policy holders, based on figures from the Insurance Council of Australia). The data are derived from the submissions of general insurance companies following large events incurring cost to the community and insurers. Events are only recorded where there is a potential for the insured loss to exceed \$10 million.

– Nil or rounded to zero.

Source: Insurance Council of Australia 2015, *Historical & current disaster statistics*, <http://www.insurancecouncil.com.au/statistics> (accessed 14 October 2015); Australian Emergency Management 2015, *Knowledge Hub*, <http://www.emknowledge.gov.au/> (accessed 14 October 2015); ABS 2015, *Australian National Accounts: National Income, Expenditure and Product, June 2015*, Cat. no. 5206.0.

TABLE DA.10

Table DA.10 **Asset loss from emergency events, per person (2014-15 dollars) (a), (b), (c), (d)**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aus</i>
Annual rate									
2014-15	223.25	–	391.96	–	21.64	–	–	–	151.85
2013-14	25.00	–	–	5.98	–	–	–	–	8.66
2012-13	22.16	–	220.79	–	–	180.98	–	–	55.60
2011-12	16.62	142.53	30.97	23.83	–	–	–	–	49.44
2010-11	–	120.66	924.76	16.36	–	–	–	–	216.67
2009-10	–	212.20	11.78	512.36	–	–	–	–	107.99
2008-09	13.60	225.63	85.95	–	–	–	–	–	77.37
2007-08	82.18	13.79	146.47	–	10.43	10.43	–	–	60.35
2006-07	271.77	–	–	4.64	–	–	–	–	89.88
2005-06	–	5.54	188.51	–	–	–	–	–	38.16
2004-05	24.68	19.88	23.67	34.19	43.04	19.88	19.88	–	25.20
2003-04	2.66	2.66	9.90	–	–	2.66	2.66	–	3.55
2002-03	5.07	3.31	–	–	–	–	1 436.31	–	26.40
2001-02	23.94	–	–	–	–	–	146.50	–	10.54
2000-01	18.86	–	14.71	–	–	–	–	–	9.11
1999-00	10.35	3.15	16.09	–	–	–	–	–	7.24
1998-99	410.37	–	43.18	28.44	–	–	–	–	149.77
1997-98	11.13	–	31.90	–	–	–	–	555.93	15.35
1996-97	47.80	3.38	–	–	–	–	–	–	17.05
1995-96	6.44	–	26.30	–	–	–	–	–	6.93
1994-95	17.27	–	29.26	10.14	–	–	–	–	12.06
1993-94	15.76	4.32	–	35.20	–	–	–	–	9.80
1992-93	–	–	–	–	–	–	–	–	–
1991-92	36.39	8.98	–	–	–	–	–	–	14.70
1990-91	40.00	4.62	18.51	–	35.33	–	–	–	20.96

Table DA.10 **Asset loss from emergency events, per person (2014-15 dollars) (a), (b), (c), (d)**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aus</i>
1989-90	362.47	12.18	45.02	–	–	–	–	–	134.93
1988-89	0.85	–	15.77	–	–	–	–	–	2.92
1987-88	8.81	–	–	26.38	–	–	–	125.51	6.70
1986-87	52.70	–	–	–	15.23	–	–	–	19.51
1985-86	10.39	–	35.19	–	–	–	–	–	9.34
Annual rate (3 year average)									
2012-13 to 2014-15	91.1	–	205.0	2.0	7.3	60.2	–	–	72.5
2011-12 to 2013-14	21.3	46.6	83.8	9.7	–	60.3	–	–	37.7
2010-11 to 2012-13	13.0	87.0	387.9	13.2	–	60.4	–	–	106.4
2009-10 to 2011-12	5.6	158.1	322.5	180.0	–	–	–	–	124.4
2008-09 to 2010-11	4.5	185.6	345.7	176.4	–	–	–	–	134.7
2007-08 to 2009-10	31.5	151.9	80.3	175.5	3.4	3.4	–	–	82.2
2006-07 to 2008-09	121.2	81.4	78.2	1.5	3.5	3.5	–	–	75.8
2005-06 to 2007-08	118.2	6.5	111.4	1.5	3.5	3.5	–	–	62.9
2004-05 to 2006-07	99.6	8.4	70.5	12.8	14.2	6.6	6.5	–	51.4
2003-04 to 2005-06	9.1	9.4	75.4	11.4	14.3	7.5	7.5	–	22.4
2002-03 to 2004-05	10.8	8.7	11.4	11.6	14.4	7.6	483.8	–	18.4
2001-02 to 2003-04	10.5	2.0	3.4	–	–	0.9	528.8	–	13.5
2000-01 to 2002-03	15.9	1.1	4.8	–	–	–	532.6	–	15.4
1999-00 to 2001-02	17.8	1.0	10.2	–	–	–	49.4	–	9.0
1998-99 to 2000-01	145.1	1.0	24.5	9.3	–	–	–	–	54.8
1997-98 to 1999-00	143.9	1.1	30.3	9.5	–	–	–	182.3	57.4
1996-97 to 1998-99	157.6	1.1	25.2	9.6	–	–	–	185.6	61.2
1995-96 to 1997-98	21.8	1.1	19.4	–	–	–	–	189.4	13.1
1994-95 to 1996-97	24.0	1.1	18.3	3.3	–	–	–	–	12.0
1993-94 to 1995-96	13.1	1.4	18.7	14.9	–	–	–	–	9.6

Table DA.10 **Asset loss from emergency events, per person (2014-15 dollars) (a), (b), (c), (d)**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aus</i>
1992-93 to 1994-95	11.1	1.4	10.0	15.1	–	–	–	–	7.3
1991-92 to 1993-94	17.3	4.4	–	11.9	–	–	–	–	8.2
1990-91 to 1992-93	25.3	4.5	6.0	–	11.7	–	–	–	11.8
1989-90 to 1991-92	145.1	8.6	20.9	–	11.8	–	–	–	56.3
1988-89 to 1990-91	134.5	5.6	26.5	–	11.9	–	–	–	53.0
1987-88 to 1989-90	125.3	4.1	20.7	8.6	–	–	–	41.4	48.9
1986-87 to 1988-89	20.5	–	5.4	8.8	5.0	–	–	41.9	9.6
1985-86 to 1987-88	23.9	–	11.5	9.0	5.1	–	–	42.7	11.8

- (a) Time series financial data are adjusted to 2014-15 dollars using the Domestic Final Demand (DFD) deflator (2014-15 = 100) (table DA.20). The DFD deflator is preferred to the General Government Final Consumption Expenditure deflator for this table, as asset losses are more closely aligned to the range of consumption and capital goods rather than general government consumption. (The index has been modelled for 1984-85 and 1985-86 using the DFD implicit price deflator.)
- (b) Population data used to derive rates are as at 31 December. Estimated Resident Population (ERP) data for 1984 to 2010 are final, based on the 2011 Census of Population and Housing. Estimates for 2012 onwards are preliminary. See chapter 2 (table 2A.2) for details.
- (c) Costs not taken into account: emergency response by emergency services; local, State, Territory and Commonwealth governments; non-government organisations; local government clean-up; remedial and environmental damage costs (including pollution of foreshores and riverbanks and beach erosion); community dislocation; loss of jobs; rehabilitation/recovery services; and basic medical and funeral costs associated with injuries and deaths.
- (d) Total Asset Loss: all insurance losses (claims by policy holders, based on figures from the Insurance Council of Australia). The data are derived from the submissions of general insurance companies following large events incurring cost to the community and insurers. Events are only recorded where there is a potential for the insured loss to exceed \$10 million.

– Nil or rounded to zero.

Source: Insurance Council of Australia 2015, *Historical & current disaster statistics*, <http://www.insurancecouncil.com.au/statistics> (accessed 14 October 2015); Australian Emergency Management 2015, *Knowledge Hub*, <http://www.emknowledge.gov.au/> (accessed 14 October 2015); ABS 2015, *Australian National Accounts: National Income, Expenditure and Product, June 2015*, Cat. no. 5206.0; ABS (unpublished), *Australian Demographic Statistics*, Cat. no. 3101.0 (table 2A.2)

Table DA.11 Road traffic death rate (a), (b), (c), (d), (e)

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust (f)</i>
Road traffic deaths									
Annual rate	per million people								
2013	44.0	40.9	60.8	65.7	65.8	69.9	38.9	167.3	52.3
2012	49.9	50.2	70.2	75.1	65.2	62.4	52.2	200.4	59.4
2011	49.2	57.3	70.0	73.2	67.1	46.9	45.4	183.1	60.0
2010	55.7	62.8	68.4	88.4	85.4	82.1	89.7	185.9	67.0
2009	57.7	61.2	87.2	92.5	71.3	117.9	63.6	182.8	71.3
2008	47.8	65.9	89.2	102.2	74.0	95.2	64.8	327.4	71.7
2007	50.0	64.9	90.5	113.3	90.0	96.3	48.8	191.0	73.2
2006	62.5	71.2	85.9	98.8	86.0	113.5	49.6	210.5	77.0
2005	54.0	76.9	71.4	82.4	101.8	102.2	77.6	248.7	73.1
2004	58.3	69.1	78.3	89.0	91.6	121.3	36.2	165.1	72.7
2003	68.0	71.8	77.8	93.0	109.9	82.8	39.5	266.5	78.4
2002	79.0	82.7	91.1	94.7	98.0	77.3	39.7	282.6	86.7
2001	81.6	92.4	102.1	90.7	100.6	105.5	46.2	212.6	91.8
2000	93.0	88.6	89.6	109.1	110.4	61.2	62.2	277.6	94.8
1999	89.2	91.2	90.3	99.5	101.5	97.2	50.4	165.7	92.2
1998	88.3	87.9	81.9	93.9	106.6	59.2	101.9	321.4	91.0
1997	85.3	99.8	109.0	101.3	82.9	44.4	64.2	212.5	94.5
1996	94.6	90.4	117.1	135.7	119.3	124.2	80.5	337.3	106.7
1995	101.5	98.1	143.5	118.8	114.4	126.2	64.6	271.0	112.7
1994	102.2	96.5	127.0	130.8	111.2	113.8	98.1	217.1	110.1
1993	93.1	103.5	127.3	125.0	143.5	128.8	36.4	234.4	110.4
1992	112.4	105.3	137.6	125.1	119.3	137.7	90.1	233.0	118.3
1991	112.8	125.8	131.6	125.4	147.0	176.6	111.9	409.4	128.0
1990	139.9	142.5	150.3	126.5	157.6	154.2	124.4	386.7	145.0
1989	158.9	197.6	150.7	145.1	151.5	177.4	113.4	354.2	167.1
1988	173.6	198.4	182.1	158.4	179.7	180.1	155.6	570.8	184.2
1987	157.0	185.8	166.4	134.8	187.2	188.4	176.4	339.6	169.4
1986	182.8	177.4	187.3	170.4	206.8	198.1	150.7	341.3	184.5
1985	191.4	163.4	200.8	157.0	201.8	185.9	154.5	336.7	184.1
1984	164.3	168.2	196.4	153.0	164.1	187.4	246.6	309.7	172.8
Annual rate (3 year average)	per million people								
2011 to 2013	47.7	49.4	66.9	71.3	66.1	59.7	45.5	183.5	57.2
2010 to 2012	51.6	56.7	69.5	78.8	72.5	63.8	62.2	189.9	62.1
2009 to 2011	54.2	60.4	75.1	84.5	74.6	82.2	66.1	183.9	66.0
2008 to 2010	53.7	63.3	81.5	94.3	76.9	98.4	72.8	231.4	70.0
2007 to 2009	51.8	64.0	88.9	102.5	78.3	103.2	59.2	233.8	72.0
2006 to 2008	53.3	67.3	88.6	104.8	83.3	101.6	54.5	244.1	73.9
2005 to 2007	55.5	70.9	82.7	98.4	92.5	104.0	58.5	216.3	74.4
2004 to 2006	58.3	72.4	78.6	90.1	93.1	112.3	54.5	208.4	74.3
2003 to 2005	60.0	72.6	75.8	88.1	101.1	102.1	51.2	226.7	74.7

Table DA.11 Road traffic death rate (a), (b), (c), (d), (e)

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust (f)</i>
2002 to 2004	68.4	74.5	82.3	92.2	99.8	93.9	38.5	237.6	79.2
2001 to 2003	76.2	82.2	90.1	92.8	102.8	88.4	41.8	253.9	85.6
2000 to 2002	84.5	87.9	94.3	98.1	103.0	81.3	49.3	257.5	91.1
1999 to 2001	87.9	90.7	94.1	99.8	104.2	88.0	52.9	218.9	93.0
1998 to 2000	90.2	89.2	87.3	100.9	106.2	72.5	71.4	254.6	92.7
1997 to 1999	87.6	93.0	93.7	98.2	97.1	66.9	72.1	233.0	92.6
1996 to 1998	89.4	92.7	102.5	110.1	102.9	76.0	82.2	290.3	97.3
1995 to 1997	93.8	96.1	123.0	118.5	105.5	98.3	69.8	273.3	104.6
1994 to 1996	99.4	95.0	129.1	128.4	115.0	121.4	81.0	276.2	109.8
1993 to 1995	99.0	99.4	132.7	124.8	123.0	122.9	66.5	241.2	111.1
1992 to 1994	102.6	101.8	130.5	127.0	124.7	126.8	74.9	228.0	112.9
1991 to 1993	106.1	111.5	132.1	125.2	136.6	147.7	79.2	291.2	118.8
1990 to 1992	121.6	124.5	139.8	125.7	141.3	156.2	108.6	342.1	130.3
1989 to 1991	137.0	155.1	144.1	132.2	152.1	169.4	116.6	383.7	146.6
1988 to 1990	157.3	179.3	160.8	143.1	162.9	170.5	130.9	436.4	165.3
1987 to 1989	163.2	194.0	166.3	146.2	172.7	181.9	148.1	421.5	173.6
1986 to 1988	171.1	187.3	178.6	154.5	191.1	188.8	160.9	418.1	179.4
1985 to 1987	176.9	175.6	184.6	153.9	198.6	190.8	160.7	339.2	179.3
1984 to 1986	179.6	169.7	194.8	160.3	191.0	190.5	183.0	329.6	180.5
Annual road traffic deaths					number				
2013	331	239	287	169	111	36	15	41	1 228
2012	370	288	327	189	109	32	20	48	1 375
2011	359	322	319	178	111	24	17	43	1 361
2010	402	348	306	208	140	42	33	43	1 497
2009	412	334	384	212	116	60	23	42	1 571
2008	337	354	386	229	119	48	23	74	1 555
2007	347	341	382	246	143	48	17	42	1 555
2006	427	367	353	208	135	56	17	45	1 603
2005	364	389	286	169	158	50	26	52	1 494
2004	390	345	307	179	141	59	12	34	1 467
2003	452	354	298	184	168	40	13	54	1 563
2002	523	403	341	185	149	37	13	57	1 709
2001	537	445	373	175	152	50	15	43	1 790
2000	607	422	320	208	166	29	20	56	1 828
1999	575	429	317	187	152	46	16	33	1 755
1998	563	409	283	174	159	28	32	63	1 711
1997	538	460	371	185	123	21	20	41	1 759
1996	591	413	393	244	176	59	25	64	1 966
1995	627	445	474	210	168	60	20	50	2 054
1994	624	434	411	227	163	54	30	39	1 983

Table DA.11 Road traffic death rate (a), (b), (c), (d), (e)

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust (f)</i>
1993	563	463	403	213	210	61	11	41	1 966
1992	674	470	426	210	174	65	27	40	2 086
1991	672	560	398	208	214	83	33	69	2 237
1990	825	630	445	207	228	72	36	64	2 507
1989	927	865	437	234	217	82	32	58	2 852
1988	1 003	857	515	250	255	82	43	92	3 097
1987	896	792	456	207	263	85	48	54	2 801
1986	1 027	747	501	255	288	89	40	54	3 001
1985	1 059	680	527	229	279	83	40	52	2 949
1984	898	693	505	217	225	83	62	46	2 729

- (a) Data for 2013 are preliminary and subject to a revisions process. Data for 2012 and 2011 have been subject to revisions. See Causes of Death, Australia (Cat. no. 3303.0) Technical Note: Causes of Death Revisions. Cells in this table have been randomly adjusted to avoid the release of confidential data. Where necessary, totals have been adjusted separately to the component cells and totals are not necessarily the sum of the component cells.
- (b) Road traffic deaths include ICD codes Road traffic accidents (V01-V79), Intentional self-harm by crashing of motor vehicle (X82), Assault by crashing of motor vehicle (Y03), and Crashing of motor vehicle, undetermined intent (Y32). Deaths data are reported by the State or Territory of the deceased's usual residence, and by the year the death was registered.
- (c) Population data used to derive rates are as at 30 June. Estimated Resident Population (ERP) data for 1983 to 2011 are final, based on the 2011 Census of Population and Housing. Estimates for 2012 onwards are preliminary. See chapter 2 (table 2A.1) for details.
- (d) The number of road traffic deaths provided in Causes of Death (ABS Cat. no. 3303.0) is different to the number of 'Road fatalities' presented in chapter 9. ABS data are sourced from death registrations. 'Road fatalities' in chapter 9 provides more recent data sourced by the Australian Road Deaths Database as reported by the police each month to road safety authorities.
- (e) The small number of deaths means it is difficult to establish patterns and provide detailed analysis.
- (f) Includes Other Territories.

Source: ABS 2015, *Causes of Death, Australia*, Cat. no. 3303.0; ABS 2015, *Australian Demographic Statistics*, Cat. no. 3101.0 (table 2A.1).

Table DA.12 Exposure to forces of nature death rate (a), (b), (c), (d)

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust (e)</i>
Exposure to forces of nature deaths									
Annual rate	per million people								
2013	0.8	1.5	1.7	0.4	3.6	–	2.6	8.2	1.4
2012	1.2	1.2	1.3	1.6	2.4	7.8	10.4	4.2	1.5
2011	3.4	1.4	6.8	0.8	0.6	2.0	–	8.5	3.4
2010	1.9	1.3	1.6	0.8	4.3	3.9	5.4	21.6	2.1
2009	1.5	5.5	1.1	2.6	17.8	–	–	13.1	3.9
2008	3.5	1.3	0.9	3.6	5.0	5.9	–	31.0	2.8
2007	3.3	1.3	1.4	4.6	5.0	6.0	–	–	2.6
2006	2.6	1.4	1.0	0.5	7.6	12.2	–	4.7	2.4
2005	1.8	0.8	1.2	1.0	9.7	8.2	–	4.8	2.0
2004	2.4	2.6	6.1	–	6.5	2.1	–	19.4	3.2
2003	1.5	1.4	1.0	0.5	3.3	8.3	–	–	1.4
2002	1.4	0.2	1.6	2.0	2.0	–	–	–	1.2
2001	1.7	0.4	0.8	0.5	0.7	2.1	–	–	1.2
2000	1.4	3.6	2.0	1.0	4.0	–	–	19.8	2.3
1999	1.7	1.1	2.8	1.6	1.3	–	12.6	–	1.6
1998	1.3	1.3	0.3	1.1	3.4	–	3.2	20.4	1.3
1997	3.6	2.2	2.1	1.1	3.4	–	–	–	2.5
1996	1.0	2.8	1.8	2.2	2.7	–	–	–	1.9
1995	2.6	0.9	2.4	3.4	2.7	–	–	16.3	2.2
1994	2.5	1.1	0.9	1.7	3.4	–	9.8	16.7	1.9
1993	1.3	1.8	0.9	–	14.4	–	–	17.2	2.5
1992	1.8	1.3	2.3	1.8	4.8	–	–	–	2.0
1991	1.0	1.1	4.3	2.4	4.8	–	–	29.7	2.3
1990	5.6	1.4	1.4	2.4	3.5	6.4	–	–	3.2
1989	2.6	0.7	3.1	4.3	4.2	–	–	–	2.4
1988	2.1	0.7	3.5	–	–	–	–	–	1.7
1987	0.9	0.7	2.9	–	2.8	6.6	–	–	1.6
1986	0.9	–	2.6	–	3.6	–	–	–	1.2
1985	2.0	1.4	2.3	–	2.2	–	–	19.4	1.9
1984	0.5	1.0	1.6	2.1	3.6	–	–	20.2	1.4
Annual rate (3 year average)	per million people								
2011 to 2013	1.8	1.4	3.2	0.9	2.2	3.2	4.4	7.0	2.1
2010 to 2012	2.2	1.3	3.2	1.1	2.4	4.6	5.3	11.3	2.3
2009 to 2011	2.3	2.7	3.2	1.4	7.5	2.0	1.8	14.4	3.1
2008 to 2010	2.3	2.7	1.2	2.3	9.0	3.3	1.8	21.8	2.9
2007 to 2009	2.8	2.7	1.2	3.6	9.3	4.0	–	14.8	3.1
2006 to 2008	3.2	1.3	1.1	2.9	5.9	8.0	–	12.1	2.6
2005 to 2007	2.6	1.2	1.2	2.1	7.4	8.8	–	3.1	2.3
2004 to 2006	2.3	1.6	2.7	0.5	7.9	7.5	–	9.5	2.5

Table DA.12 Exposure to forces of nature death rate (a), (b), (c), (d)

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust (e)</i>
2003 to 2005	1.9	1.6	2.8	0.5	6.5	6.2	–	8.1	2.2
2002 to 2004	1.8	1.4	3.0	0.8	3.9	3.5	–	6.6	1.9
2001 to 2003	1.5	0.7	1.2	1.0	2.0	3.5	–	–	1.3
2000 to 2002	1.5	1.4	1.5	1.2	2.2	0.7	–	6.6	1.5
1999 to 2001	1.6	1.7	1.9	1.1	2.0	0.7	4.2	6.6	1.7
1998 to 2000	1.4	2.0	1.7	1.2	2.9	–	5.2	13.4	1.8
1997 to 1999	2.2	1.5	1.7	1.3	2.7	–	5.3	6.8	1.8
1996 to 1998	2.0	2.1	1.4	1.5	3.1	–	1.1	6.9	1.9
1995 to 1997	2.4	2.0	2.1	2.2	2.9	–	–	5.3	2.2
1994 to 1996	2.0	1.6	1.7	2.5	2.9	–	3.2	10.8	2.0
1993 to 1995	2.1	1.3	1.4	1.7	6.8	–	3.3	16.7	2.2
1992 to 1994	1.9	1.4	1.4	1.2	7.5	–	3.3	11.4	2.2
1991 to 1993	1.4	1.4	2.5	1.4	8.0	–	–	15.5	2.3
1990 to 1992	2.8	1.3	2.6	2.2	4.4	2.1	–	9.9	2.5
1989 to 1991	3.1	1.1	2.9	3.1	4.2	2.1	–	10.0	2.6
1988 to 1990	3.4	0.9	2.6	2.3	2.6	2.2	–	–	2.5
1987 to 1989	1.8	0.7	3.2	1.5	2.3	2.2	–	–	1.9
1986 to 1988	1.3	0.5	3.0	–	2.1	2.2	–	–	1.5
1985 to 1987	1.2	0.7	2.6	–	2.9	2.2	–	6.4	1.5
1984 to 1986	1.1	0.8	2.2	0.7	3.1	–	–	13.0	1.5
Annual exposure to forces of nature deaths									
									<i>number</i>
2013	6	9	8	1	6	–	1	2	34
2012	9	7	6	4	4	4	4	1	34
2011	25	8	31	2	1	1	–	2	77
2010	14	7	7	2	7	2	2	5	46
2009	11	30	5	6	29	–	–	3	85
2008	25	7	4	8	8	3	–	7	60
2007	23	7	6	10	8	3	–	–	55
2006	18	7	4	1	12	6	–	1	50
2005	12	4	5	2	15	4	–	1	40
2004	16	13	24	–	10	1	–	4	65
2003	10	7	4	1	5	4	–	–	28
2002	9	1	6	4	3	–	–	–	23
2001	11	2	3	1	1	1	–	–	23
2000	9	17	7	2	6	–	–	4	44
1999	11	5	10	3	2	–	4	–	31
1998	8	6	1	2	5	–	1	4	25
1997	23	10	7	2	5	–	–	–	47
1996	6	13	6	4	4	–	–	–	35
1995	16	4	8	6	4	–	–	3	41

Table DA.12 Exposure to forces of nature death rate (a), (b), (c), (d)

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust (e)</i>
1994	15	5	3	3	5	–	3	3	35
1993	8	8	3	–	21	–	–	3	45
1992	11	6	7	3	7	–	–	–	35
1991	6	5	13	4	7	–	–	5	40
1990	33	6	4	4	5	3	–	–	56
1989	15	3	9	7	6	–	–	–	41
1988	12	3	10	–	–	–	–	–	29
1987	5	3	8	–	4	3	–	–	26
1986	5	–	7	–	5	–	–	–	19
1985	11	6	6	–	3	–	–	3	30
1984	3	4	4	3	5	–	–	3	22

- (a) Data for 2013 are preliminary and subject to a revisions process. Data for 2012 and 2011 have been subject to revisions. See Causes of Death, Australia (Cat. no. 3303.0) Technical Note: Causes of Death Revisions. Cells in this table have been randomly adjusted to avoid the release of confidential data. Where necessary, totals have been adjusted separately to the component cells and totals are not necessarily the sum of the component cells.
- (b) Exposure to forces of nature includes ICD codes X30-X39. Deaths data are reported by the State or Territory of the deceased's usual residence, and by the year the death was registered.
- (c) Population data used to derive rates are as at 30 June. Estimated Resident Population (ERP) data for 1983 to 2011 are final, based on the 2011 Census of Population and Housing. Estimates for 2012 onwards are preliminary. See chapter 2 (table 2A.1) for details.
- (d) The small number of deaths means it is difficult to establish patterns and provide detailed analysis.
- (e) Includes Other Territories.
– Nil or rounded to zero.

Source: ABS 2015, *Causes of Death, Australia*, Cat. no. 3303.0; ABS 2015, *Australian Demographic Statistics*, Cat. no. 3101.0 (table 2A.1).

Table DA.13 Total selected emergency events death rate (a), (b), (c), (d)

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust (e)</i>
Total emergency event deaths									
Annual rate	<i>per million people</i>								
2013	49.2	46.4	67.3	68.8	74.2	69.9	44.0	179.5	57.9
2012	52.8	55.1	74.5	85.8	74.8	81.9	60.0	246.3	64.3
2011	56.1	63.0	80.0	80.2	71.9	62.5	56.1	238.5	68.2
2010	62.3	68.8	74.2	94.8	91.5	88.0	95.1	224.8	73.5
2009	64.0	102.7	91.9	100.0	97.7	137.6	74.6	213.2	87.4
2008	55.6	73.7	94.9	113.4	88.3	119.0	64.8	362.8	80.0
2007	56.7	71.9	97.9	123.9	102.0	110.3	54.5	222.9	81.1
2006	70.1	77.8	92.4	104.5	105.1	127.7	52.5	215.2	84.4
2005	65.0	83.0	77.1	86.8	119.8	120.6	86.5	263.1	81.8
2004	66.5	76.4	88.3	92.0	105.9	146.0	39.2	189.4	81.4
2003	76.4	79.2	83.6	103.6	123.7	105.6	42.6	271.4	87.0
2002	87.8	89.9	99.1	101.9	107.9	94.0	42.8	292.5	95.0
2001	87.4	96.1	107.6	98.0	111.8	126.5	55.4	217.6	98.3
2000	102.8	98.5	101.1	113.8	120.4	63.3	74.6	302.4	104.7
1999	96.6	97.8	102.6	103.8	113.5	103.6	72.5	185.8	100.4
1998	98.4	95.9	90.3	101.9	117.4	84.6	105.0	346.9	100.5
1997	95.3	108.7	120.4	111.7	97.8	61.3	73.8	233.3	105.0
1996	106.8	102.0	125.5	142.4	132.1	130.6	80.5	358.4	117.5
1995	113.5	107.2	158.6	128.4	131.4	138.8	64.6	287.2	124.7
1994	112.8	106.7	138.7	138.2	129.7	128.6	127.5	233.9	121.6
1993	104.7	114.0	134.8	132.0	168.1	135.2	46.3	268.7	121.7
1992	124.3	117.9	145.7	131.1	141.9	152.5	90.1	262.1	130.2
1991	127.2	137.3	143.6	132.0	166.3	187.2	111.9	456.8	140.7
1990	151.4	152.0	158.4	140.6	170.1	171.4	124.4	404.9	155.9
1989	172.1	208.3	166.6	152.5	167.6	183.9	131.1	354.2	179.8
1988	185.2	210.2	191.3	165.4	191.7	193.3	155.6	589.4	195.3
1987	170.5	198.5	175.2	141.4	196.5	201.7	176.4	358.4	181.0
1986	195.1	188.4	199.6	179.1	219.0	209.2	150.7	360.3	196.1
1985	206.5	178.1	213.7	164.5	215.5	185.9	166.1	356.2	197.7
1984	174.8	177.9	208.1	169.9	175.8	201.0	246.6	329.9	184.1
Annual rate (3 year average)	<i>per million people</i>								
2011 to 2013	52.7	54.7	73.9	78.2	73.6	71.4	53.3	221.0	63.4
2010 to 2012	57.0	62.2	76.2	86.8	79.4	77.4	70.2	236.7	68.6
2009 to 2011	60.8	78.0	82.0	91.5	87.0	95.9	75.2	225.6	76.2
2008 to 2010	60.7	81.7	86.9	102.5	92.5	114.8	78.4	266.3	80.2
2007 to 2009	58.8	83.0	94.9	112.2	96.0	122.4	64.8	266.4	82.9
2006 to 2008	60.7	74.5	95.1	114.0	98.4	119.0	57.4	268.3	81.8
2005 to 2007	63.9	77.5	89.3	105.4	108.9	119.5	64.3	233.4	82.4
2004 to 2006	67.2	79.1	86.0	94.5	110.3	131.4	59.5	222.7	82.5

Table DA.13 Total selected emergency events death rate (a), (b), (c), (d)

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust (e)</i>
2003 to 2005	69.3	79.5	82.9	94.0	116.5	124.1	56.3	241.2	83.4
2002 to 2004	76.8	81.7	90.2	99.1	112.5	115.3	41.5	250.7	87.7
2001 to 2003	83.8	88.3	96.6	101.2	114.5	108.6	46.9	260.5	93.4
2000 to 2002	92.6	94.8	102.6	104.5	113.3	94.6	57.5	270.8	99.3
1999 to 2001	95.6	97.4	103.8	105.2	115.2	97.8	67.5	235.4	101.1
1998 to 2000	99.3	97.4	98.1	106.6	117.1	83.8	84.0	278.1	101.9
1997 to 1999	96.8	100.8	104.4	105.8	109.6	83.1	83.8	255.1	102.0
1996 to 1998	100.1	102.2	111.9	118.5	115.7	92.2	86.5	312.8	107.6
1995 to 1997	105.1	106.0	134.7	127.4	120.4	110.3	73.0	292.7	115.6
1994 to 1996	111.0	105.3	140.9	136.3	131.1	132.6	90.7	294.3	121.3
1993 to 1995	110.4	109.3	144.2	132.8	143.0	134.2	79.6	263.4	122.7
1992 to 1994	113.9	112.9	139.7	133.8	146.6	138.7	88.1	254.6	124.5
1991 to 1993	118.7	123.0	141.3	131.7	158.8	158.3	82.5	328.1	130.8
1990 to 1992	134.2	135.7	149.1	134.5	159.4	170.4	108.6	373.7	142.2
1989 to 1991	150.1	165.7	156.0	141.6	168.0	180.8	122.3	405.8	158.7
1988 to 1990	169.5	190.0	171.8	152.7	176.4	182.8	136.8	448.6	176.8
1987 to 1989	175.9	205.7	177.6	153.2	185.2	192.9	154.1	433.9	185.4
1986 to 1988	183.6	199.1	188.7	161.8	202.3	201.4	160.9	436.9	190.8
1985 to 1987	190.5	188.4	195.9	161.5	210.3	199.0	164.5	358.3	191.5
1984 to 1986	192.2	181.5	207.1	171.2	203.5	198.7	186.9	349.1	192.7
Annual emergency event deaths					<i>number</i>				
2013	370	271	318	177	125	36	17	44	1 361
2012	391	316	347	216	125	42	23	59	1 487
2011	409	354	365	195	119	32	21	56	1 546
2010	450	381	332	223	150	45	35	52	1 641
2009	457	561	405	229	159	70	27	49	1 925
2008	392	396	411	254	142	60	23	82	1 735
2007	394	378	413	269	162	55	19	49	1 723
2006	479	401	380	220	165	63	18	46	1 757
2005	438	420	309	178	186	59	29	55	1 672
2004	445	381	346	185	163	71	13	39	1 642
2003	508	390	320	205	189	51	14	55	1 734
2002	581	438	371	199	164	45	14	59	1 873
2001	575	463	393	189	169	60	18	44	1 917
2000	671	469	361	217	181	30	24	61	2 018
1999	623	460	360	195	170	49	23	37	1 911
1998	627	446	312	189	175	40	33	68	1 891
1997	601	501	410	204	145	29	23	45	1 953
1996	667	466	421	256	195	62	25	68	2 164
1995	701	486	524	227	193	66	20	53	2 273

Table DA.13 Total selected emergency events death rate (a), (b), (c), (d)

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust (e)</i>
1994	689	480	449	240	190	61	39	42	2 190
1993	633	510	427	225	246	64	14	47	2 167
1992	745	526	451	220	207	72	27	45	2 296
1991	758	611	434	219	242	88	33	77	2 460
1990	893	672	469	230	246	80	36	67	2 695
1989	1 004	912	483	246	240	85	37	58	3 068
1988	1 070	908	541	261	272	88	43	95	3 284
1987	973	846	480	217	276	91	48	57	2 992
1986	1 096	793	534	268	305	94	40	57	3 190
1985	1 142	741	561	240	298	83	43	55	3 167
1984	955	733	535	241	241	89	62	49	2 906

- (a) Data for 2013 are preliminary and subject to a revisions process. Data for 2012 and 2011 have been subject to revisions. See Causes of Death, Australia (Cat. no. 3303.0) Technical Note: Causes of Death Revisions. Cells in this table have been randomly adjusted to avoid the release of confidential data. Where necessary, totals have been adjusted separately to the component cells and totals are not necessarily the sum of the component cells.
- (b) Deaths are coded according to the ICD and Related Health Problems Revision 10 (ICD-10). Deaths data are reported by the year the death was registered. Road traffic deaths includes ICD codes V01-V79, X82, Y03 and Y32. Exposure to forces of nature includes ICD codes X30-X39. Fire deaths include ICD fire death codes X00-X09 plus X76, X97 and Y26. Data are reported by the State or Territory of the deceased's usual residence, and by the year the death was registered.
- (c) Population data used to derive rates are as at 30 June. Estimated Resident Population (ERP) data for 1983 to 2011 are final, based on the 2011 Census of Population and Housing. Estimates for 2012 onwards are preliminary. See chapter 2 (table 2A.1) for details.
- (c) See chapter 9 for fire deaths data.
- (d) The small number of deaths means it is difficult to establish patterns and provide detailed analysis.
- (e) Includes Other Territories.

Source: ABS 2015, *Causes of Death, Australia*, Cat. no. 3303.0; ABS 2015, *Australian Demographic Statistics*, Cat. no. 3101.0 (table 2A.1); table 9A.6; tables DA.8-9.

All jurisdictions — State and Territory emergency services

Table DA.14 All activities of State and Territory Emergency Services

	NSW	Vic	Qld	WA	SA	Tas	ACT	NT
Floods, storm and tempest and other natural disasters								
Tropical cyclone response	x	x	✓	✓	x	x	x	✓
Storm damage	✓	✓	✓	✓	✓	✓	✓	✓
Flood response	✓	✓	✓	✓	✓	✓	✓	✓
Earthquakes	✓(a)	✓	✓	✓	✓	✓	✓(a)	✓
Tsunami response	✓	✓	✓	✓	x	✓(a)	x	✓
Search and rescue and emergency medical service								
Road crash rescue	✓	✓	✓	✓	✓	✓	x	✓
Vertical rescue	✓	✓	✓	✓	✓	✓(a)	x	✓
Land search and rescue	✓(a)	✓(a)	✓(a)	✓(a)	✓	✓(a)	✓(a)	✓
Urban search and rescue	✓(a)	✓	✓(a)	✓(a)	✓	✓(a)	✓(a)	✓(a)
Inland marine search and rescue	✓(a)	✓(a)	✓(a)	✓(a)	✓	✓(a)	x	✓
Offshore marine search and rescue	x	✓(a)	x	✓(b)	✓	x	✓(b)	✓
Other emergency incidents								
Hazardous conditions				✓				
Civil defence	✓	x	✓	✓	✓	✓	✓	✓
National security support	✓(a)	✓	✓(a)	✓	✓	✓(a)	✓	✓(a)
Support to emergency service organisations	✓	✓	✓	✓	✓	✓	✓	✓
Support services								
Conduct of emergency management courses	x	✓	✓	✓	✓	✓	x	✓
Public safety awareness and education	✓	✓	✓	✓	✓	✓	✓	✓
Assistance for municipal planning	✓	✓	✓	✓	✓	✓	x	✓
Air observer (b)	✓(a)	✓(a)	✓(a)	✓(a)	✓	✓(a)	✓	✓

(a) This role is to provide support to another agency in this activity.

(b) WASES and ACTSES undertake air observer duties only, offshore. They do not participate in sea rescue.

Source: State and Territory governments (unpublished).

Table DA.15 Major sources of State and Territory Emergency Service organisations' revenue (2014-15 dollars) (a), (b)

		NSW	Vic	Qld (c)	WA (c)	SA (c)	Tas	ACT	NT	Aust (c)	Total (c)
2014-15											
Government grants and appropriations	\$'000	36 958	50 828	9 050	na	860	727	1 968	2 811	na	103 202
Total levies	\$'000	66 385	–	–	na	14 807	–	–	–	na	81 192
Other revenue	\$'000	2 654	3 923	205	na	168	4 774	172	–	na	11 896
Total	\$'000	105 997	54 751	9 255	na	15 835	5 501	2 140	2 811	na	196 290
Government grants and appropriations											
Australian	%	–	–	–	na	–	0.2	–	–	na	–
State/Territory	%	23.0	92.8	97.8	na	5.4	13.0	91.5	100.0	na	46.2
Local	%	11.8	–	–	na	–	–	na	–	na	6.4
Levies	%	62.6	–	–	na	93.5	–	–	–	na	41.4
Other revenue	%	2.5	7.2	2.2	na	1.1	86.8	8.0	–	na	6.1
Total	%	100.0	100.0	100.0	na	100.0	100.0	100.0	100.0	na	100.0
2013-14											
Government grants and appropriations	\$'000	22 882	51 684	10 247	na	na	3 084	1 930	3 198	na	93 025
Total levies	\$'000	63 895	–	–	na	14 872	–	–	–	na	78 767
Other revenue	\$'000	3 101	4 868	162	na	339	1 920	80	–	na	10 469
Total	\$'000	89 878	56 551	10 409	–	15 545	5 004	2 010	3 198	na	182 596
Government grants and appropriations											
Australian	%	–	–	–	na	na	2.1	3.1	–	na	–
State/Territory	%	14.3	91.2	98.4	na	2.2	59.5	92.9	100.0	na	45.5
Local	%	11.3	–	–	na	na	–	–	–	na	5.6
Levies	%	71.1	–	–	na	95.7	–	–	–	na	43.1
Other revenue	%	3.4	8.6	1.6	na	2.2	38.4	4.0	–	na	5.7
Total	%	100.0	100.0	100.0	na	100.0	100.0	100.0	100.0	na	100.0

Table DA.15 Major sources of State and Territory Emergency Service organisations' revenue (2014-15 dollars) (a), (b)

		NSW	Vic	Qld (c)	WA (c)	SA (c)	Tas	ACT	NT	Aust (c)	Total (c)
2012-13											
Government grants and appropriations	\$'000	31 120	54 226	12 482	na	–	3 093	2 136	3 636	na	106 693
Total levies	\$'000	62 487	–	na	na	15 411	–	–	–	na	77 898
Other revenue	\$'000	3 364	4 561	na	na	319	2 809	90	1	na	11 143
Total	\$'000	96 970	58 787	na	na	15 730	5 902	2 226	3 637	na	183 252
Government grants and appropriations											
Australian	%	9.7	0.3	na	na	–	1.8	7.4	–	na	5.4
State/Territory	%	12.3	92.0	100.0	na	–	50.6	88.6	100.0	na	47.5
Local	%	10.1	–	na	na	–	–	–	–	na	5.4
Levies	%	64.4	–	na	na	98.0	–	–	–	na	42.5
Other revenue	%	3.5	7.8	na	na	2.0	47.6	4.0	0.0	na	6.1
Total	%	100.0	100.0	na	na	100.0	100.0	100.0	100.0	na	106.8
2011-12											
Total government grants	\$'000	14 285	46 495	na	na	–	3 241	1 859	3 729	na	69 610
Total levies	\$'000	55 200	–	na	na	14 040	–	–	–	na	69 239
Other revenue	\$'000	3 599	7 054	na	na	2 246	3 945	15	2	na	16 860
Total	\$'000	73 084	53 550	na	na	16 285	7 186	1 874	3 731	na	155 710
Government grants											
Australian	%	0.3	–	na	na	–	–	0.9	–	na	–
State/Territory	%	8.5	86.8	na	na	–	45.1	98.3	99.9	na	39.5
Local	%	10.7	–	na	na	–	–	–	–	na	5.0
Levies	%	75.5	–	na	na	86.2	–	–	–	na	44.5
Other revenue	%	4.9	13.2	na	na	13.8	54.9	0.8	0.1	na	10.8
Total	%	100.0	100.0	na	na	100.0	100.0	100.0	100.0	na	100.0

Table DA.15 Major sources of State and Territory Emergency Service organisations' revenue (2014-15 dollars) (a), (b)

	<i>NSW</i>	<i>Vic</i>	<i>Qld (c)</i>	<i>WA (c)</i>	<i>SA (c)</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust (c)</i>	<i>Total (c)</i>
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(a) Time series financial data are adjusted to 2014-15 dollars using the General Government Final Consumption Expenditure (GGFCE) chain price deflator (2014-15 = 100) (table DA.20). See table 2A.48 and chapter 2 (sections 2.5-6) for more information.

(b) Figures vary from year to year as a result of abnormal expenditure related to the response to specific major emergencies.

(c) Jurisdiction notes:

Qld: The 2013-14 revenue represents State Emergency Service costs for the former Emergency Management Queensland (EMQ) for the period 1 July 2013 to 31 October 2013 and Queensland Fire and Emergency Services (QFES) for the period 1 November 2013 to 30 June 2014. In addition, some functions and assets previously held by the former EMQ were transferred to the Public Safety Business Agency on 1 November 2013. The 2013-14 results are therefore not comparable to prior years.

WA: DFES provides a wide range of emergency services under an integrated management structure. Data cannot be segregated for the the State Emergency Service. Financial data for the fire service organisation include data related to the fire service agency, SES and volunteer marine rescue — see chapter 9.

SA: Other revenue includes revenue from fees and charges, interest income, donations and volunteer unit fundraising income. The significant decrease from 2011-12 is partly due to property transferred into the control of the Minister, which was recognised as resources received free of charge in 2011-12 (\$0.644 million). Also contributing to the significant variance is the gain on revaluation of property, plant and equipment in 2011-12 (\$1.402 million).

Tas: Tasmania SES financial data have been subject to revisions in all years.

Aust: SES totals for financial data exclude WA.

Total: Total of jurisdictions where data are available. In 2011-12, SES total excludes Queensland and WA.

na Not available. – Nil or rounded to zero.

Source: State and Territory Governments (unpublished); ABS 2015, Australian National Accounts: National Income, Expenditure and Product, June 2015, Cat. no. 5206.0, Canberra (table 2A.48).

Table DA.16 State and Territory Emergency Service organisations' costs (\$'000) (2014-15 dollars) (a), (b)

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>	<i>Total</i>
	(f)	(f)	(f)	(f)		(f)	(f)		(f)	(f)
2014-15										
Labour costs - Salaries and payments in the nature of salaries	31 729	19 627	1 620	na	4 420	2 384	1 082	1 727	na	62 589
Capital costs (c)										
Depreciation	3 971	6 382	14	na	1 450	–	431	629	na	12 877
User cost of capital - Other	2 059	4 906	na	na	2 623	–	429	452	na	10 468
Other costs (d)	58 337	22 831	7 622	na	7 250	2 909	998	1 023	na	100 970
Total costs (e)	96 096	53 746	9 255	na	15 743	5 293	2 940	3 831	na	186 904
Other expenses										
<i>Labour costs - Payroll tax</i>	1 655	869	–	na	188	–	–	na	na	2 712
<i>User cost of capital - Land</i>	..	704	–	na	284	–	192	160	na	1 340
<i>Interest on borrowings</i>	na	284	–	na	–	–	–	na	na	284
2013-14										
Labour costs - Salaries and payments in the nature of salaries	31 889	19 267	1 953	na	4 583	2 459	1 017	1 813	na	62 981
Capital costs (c)										
Depreciation	5 032	5 915	118	na	2 252	–	467	435	na	14 219
User cost of capital - Other	4 070	4 927	na	na	2 482	–	486	506	na	12 471
Other costs (d)	47 485	25 721	8 338	na	8 148	2 255	916	998	na	93 861
Total costs (e)	88 476	55 829	10 409	na	17 465	4 714	2 886	3 752	na	183 531
Other expenses										
<i>Payroll tax</i>	1 624	917	90	na	189	–	–	90	na	2 909
<i>User cost of capital - Land</i>	..	746	na	na	289	–	196	163	na	1 393
<i>Interest on borrowings</i>	–	332	na	na	–	–	–	–	na	332
2012-13										
Labour costs - Salaries and payments in the nature of salaries	28 699	18 323	2 164	na	3 176	2 290	1 063	1 778	na	57 493

Table DA.16 State and Territory Emergency Service organisations' costs (\$'000) (2014-15 dollars) (a), (b)

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>	<i>Total</i>
	(f)	(f)	(f)	(f)		(f)	(f)		(f)	(f)
Capital costs (c)										
Depreciation	4 224	5 695	269	na	2 330	–	520	627	na	13 663
User cost of capital - Other	3 625	4 553	na	na	2 660	–	543	502	na	11 883
Other costs (d)	56 281	26 476	10 051	na	7 334	2 704	875	1 107	na	104 829
Total costs (e)	92 830	55 047	12 483	na	15 500	4 994	3 001	4 014	na	187 868
Other expenses										
<i>Payroll tax</i>	1 454	749	137	na	137	–	–	96	na	2 573
<i>User cost of capital - Land</i>	–	756	na	na	232	–	198	210	na	1 396
<i>Interest on borrowings</i>	–	371	–	na	–	–	–	–	na	371
2011-12										
Labour costs - Salaries and payments in the nature of salaries	27 506	17 683	na	na	3 667	2 226	1 100	2 032	na	54 214
Capital costs (c)										
Depreciation	4 499	4 653	na	na	2 043	na	315	466	na	11 976
User cost of capital - Other	2 853	4 337	na	na	2 741	na	520	507	na	10 958
Other costs (d)	66 162	28 803	na	na	7 496	6 186	719	1 433	na	110 798
Total costs (e)	101 020	55 476	na	na	15 947	8 412	2 654	4 438	na	187 946
Other										
<i>Payroll tax</i>	7 100	740	na	na	154	6	–	96	na	8 096
<i>User cost of capital - Land</i>	173	9 582	na	na	2 933	na	2 511	2 665	na	17 864
<i>Interest on borrowings</i>	–	- 393	na	na	–	–	–	–	na	- 393

(a) Time series financial data are adjusted to 2014-15 dollars using the General Government Final Consumption Expenditure (GGFCE) chain price deflator (2014-15 = 100) (table DA.20). See table 2A.48 and chapter 2 (sections 2.5-6) for more information.

(b) Figures vary from year to year as a result of abnormal expenditure related to response to specific major emergencies.

(c) The user cost of capital is partly dependent on depreciation and asset revaluation methods employed. Details of the treatment of assets by emergency management agencies across jurisdictions are outlined in table 9A.51.

(d) Includes the running, training, maintenance, communications, provisions for losses and other recurrent costs.

Table DA.16 **State and Territory Emergency Service organisations' costs (\$'000) (2014-15 dollars) (a), (b)**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>	<i>Total</i>
	(f)	(f)	(f)	(f)		(f)	(f)		(f)	(f)

(e) Total costs excludes payroll tax, the user cost of capital associated with land, and interest on borrowings.

(f) Jurisdiction notes:

Qld: The user cost of capital is unable to be calculated as many State Emergency Service (SES) non-current physical assets are owned by local governments therefore Queensland Fire and Emergency Services (QFES) is not able to provide asset values required to calculate cost of capital.

The operating costs represents State Emergency Service costs following the transfer of some functions and assets to the Public Safety Business Agency on 1 November 2013. The 2014-15 results reflect the first full year following the transfers and are therefore not comparable to prior years.

WA: DFES provides a wide range of emergency services under an integrated management structure. Data cannot be segregated for the the State Emergency Service. Financial data for the fire service organisation include data related to the fire service agency, SES and volunteer marine rescue — see chapter 9.

Tas: Tasmania SES financial data have been subject to revisions in all years.

Many SES non-physical assets are owned by Local Governments therefore Tasmania is not able to provide asset values required to calculate cost of capital.

SA: Other costs include the Government Radio Network, repairs and maintenance, and travel and training.

Aust: Australian totals for SES financial data exclude WA.

Total: Total of jurisdictions where data are available.

na Not available. – Nil or rounded to zero.

Source: State and Territory Governments (unpublished); ABS 2015, Australian National Accounts: National Income, Expenditure and Product, June 2015, Cat. no. 5206.0, Canberra (table 2A.48).

TABLE DA.17

Table DA.17 State and Territory Emergency Service organisations' human resources (a)

		<i>NSW</i>	<i>Vic</i> (b)	<i>Qld</i> (b)	<i>WA</i> (b)	<i>SA</i> (b)	<i>Tas</i>	<i>ACT</i>	<i>NT</i> (b)	<i>Aust</i>	<i>Total</i>
2014-15											
Paid staff											
Operational	FTE	na	57	na	na	33	10	8	13	na	na
Support personnel	FTE	na	127	na	na	11	15	–	6	na	na
Total	FTE	297	184	na	na	44	25	8	19	na	577
Volunteers											
Operational	no.	na	3 374	na	1 977	1 668	na	279	na	na	na
Support personnel	no.	na	627	na	56	na	na	–	na	na	na
Total	no.	9 663	4 001	5 900	2 033	1 668	529	279	319	24 392	24 392
2013-14											
Paid staff											
Operational	FTE	na	57	na	na	33	10	8	13	na	na
Support personnel	FTE	na	124	na	na	10	16	–	6	na	na
Total	FTE	292	181	na	na	43	26	8	19	na	569
Volunteers											
Operational	no.	na	3 377	na	1 986	na	na	na	344	na	na
Support personnel	no.	na	626	na	57	na	na	na	–	na	na
Total	no.	7 282	4 003	5 700	2 043	1 711	548	257	344	21 888	21 888
2012-13											
Paid staff											
Operational	FTE	254	42	na	na	31	10	8	13	na	na
Support personnel	FTE	–	131	na	na	10	16	–	6	na	na
Total	FTE	254	173	na	na	41	26	8	19	na	521
Volunteers											
Operational	no.	7 454	3 317	na	1 971	na	na	243	na	na	na
Support personnel	no.	–	367	na	53	na	na	–	na	na	na
Total	no.	7 454	3 684	6 000	2 024	1 617	531	243	324	21 877	21 877

Table DA.17 State and Territory Emergency Service organisations' human resources (a)

		<i>NSW</i>	<i>Vic</i> (b)	<i>Qld</i> (b)	<i>WA</i> (b)	<i>SA</i> (b)	<i>Tas</i>	<i>ACT</i>	<i>NT</i> (b)	<i>Aust</i>	<i>Total</i>
2011-12											
Paid staff	FTE	311	210	na	na	44	24	8	19	na	na
Operational	FTE	na	48	na	na	21	14	8	18	na	na
Support personnel	FTE	na	162	na	na	23	10	–	1	na	na
Total	FTE	311	210	na	na	44	24	8	19	na	na
Volunteers											
Operational	no.	na	4 730	na	1 881	na	na	262	309	na	na
Support personnel	no.	na	770	na	46	na	na	–	35	na	na
Total	no.	7 312	5 500	5 400	1 927	1 674	559	262	344	22 978	22 978
2010-11											
Paid staff	FTE	273	na	na	na	na	24	na	na	na	297
Operational	FTE	273	na	na	na	na	14	na	na	na	287
Support personnel	FTE	na	na	na	na	na	10	na	na	na	10
Total	FTE	273	na	na	na	na	24	na	na	na	297
Volunteers											
Operational	no.	na	3 273	na	1 950	na	na	na	na	na	na
Support personnel	no.	na	1 898	na	44	na	na	na	na	na	na
Total	no.	10 828	5 171	7 000	1 994	1 701	615	240	377	27 926	27 926
2009-10											
Paid staff	FTE	na	na	na	na	na	na	na	na	na	na
Operational	FTE	na	na	na	na	na	na	na	na	na	na
Support personnel	FTE	na	na	na	na	na	na	na	na	na	–
Total	FTE	na	na	na	na	na	na	na	na	na	na
Volunteers											
Operational	no.	na	4 028	na	1 898	na	na	na	na	na	na
Support personnel	no.	na	1 193	na	16	na	na	na	na	na	na
Total	no.	10 356	5 221	6 800	1 914	1 532	537	229	335	26 924	26 924

Table DA.17 **State and Territory Emergency Service organisations' human resources (a)**

		<i>NSW</i>	<i>Vic</i> (b)	<i>Qld</i> (b)	<i>WA</i> (b)	<i>SA</i> (b)	<i>Tas</i>	<i>ACT</i>	<i>NT</i> (b)	<i>Aust</i>	<i>Total</i>
2008-09											
Paid staff	FTE	na	na	na	na	na	na	na	na	na	na
Operational	FTE	na	na	na	na	na	na	na	na	na	na
Support personnel	FTE	na	na	na	na	na	na	na	na	na	–
Total	FTE	na	na	na	na	na	na	na	na	na	na
Volunteers											
Operational	no.	na	3 691	na	1 886	na	552	na	na	na	na
Support personnel	no.	na	1 809	na	14	na	32	na	na	na	na
Total	no.	10 954	5 500	6 300	1 900	1 613	584	247	299	27 397	27 397

Table DA.17 State and Territory Emergency Service organisations' human resources (a)

		<i>NSW</i>	<i>Vic</i> (b)	<i>Qld</i> (b)	<i>WA</i> (b)	<i>SA</i> (b)	<i>Tas</i>	<i>ACT</i>	<i>NT</i> (b)	<i>Aust</i>	<i>Total</i>
2007-08											
Paid staff	FTE	na	na	na	na	na	na	na	na	na	na
Operational	FTE	na	na	na	na	na	na	na	na	na	na
Support personnel	FTE	na	na	na	na	na	na	na	na	na	–
Total	FTE	na	na	na	na	na	na	na	na	na	na
Volunteers											
Operational	no.	na	3 691	na	na	na	530	na	na	na	na
Support personnel	no.	na	1 142	na	na	na	30	na	na	na	na
Total	no.	10 114	4 833	6 430	1 827	1 828	560	205	293	26 090	26 090
2006-07											
Paid staff	FTE	na	na	na	na	na	na	na	na	na	na
Operational	FTE	na	na	na	na	na	na	na	na	na	na
Support personnel	FTE	na	na	na	na	na	na	na	na	na	–
Total	FTE	na	na	na	na	na	na	na	na	na	na
Volunteers											
Operational	no.	na	3 101	na	na	na	na	na	na	na	na
Support personnel	no.	na	1 310	na	na	na	na	na	na	na	na
Total	no.	10 331	4 411	7 000	1 854	1 821	525	191	347	26 480	26 480
2005-06											
Paid staff	FTE	na	na	na	na	na	na	na	na	na	na
Operational	FTE	na	na	na	na	na	na	na	na	na	na
Support personnel	FTE	na	na	na	na	na	na	na	na	na	–
Total	FTE	na	na	na	na	na	na	na	na	na	na
Volunteers											
Operational	no.	na	na	na	na	na	na	na	na	na	na
Support personnel	no.	na	na	na	na	na	na	na	na	na	na
Total	no.	10 302	4 437	9 394	1 863	1 896	577	168	392	29 029	29 029

Table DA.17 **State and Territory Emergency Service organisations' human resources (a)**

	<i>NSW</i>	<i>Vic</i> (b)	<i>Qld</i> (b)	<i>WA</i> (b)	<i>SA</i> (b)	<i>Tas</i>	<i>ACT</i>	<i>NT</i> (b)	<i>Aust</i>	<i>Total</i>
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(a) Data on SES paid staff were not collected prior to 2011-12.

(b) Jurisdiction notes:

Vic: 2012-13 volunteer numbers are less due to cleansing of volunteer records. Data exclude volunteers on leave and associates.

Qld: Volunteer numbers may fluctuate as members leave the service, new members are recruited and data cleansing occurs.

For 2013-14, paid staff who contribute to the SES function have been included within fire service organisation data (chapter 9).

Prior to 2013-14, the SES formed part of Emergency Management Queensland within the former Department of Community Safety. Effective 1 November 2013, Queensland Fire and Emergency Services (QFES) was established as an independent department encompassing fire and rescue, emergency management, SES and the Rural Fire Service.

WA: Data exclude volunteer emergency service members who may also undertake an SES role (560 in 2014-15).

Salaried personnel of the Department of Fire and Emergency Services have cross hazard responsibilities and are not broken down by service.

SA: Data refer to active, operational members.

NT: Transient people in the NT result in fluctuations in the numbers of volunteers.

na Not available. – Nil or rounded to zero.

Source: State and Territory governments (unpublished).

Table DA.18 State and Territory Emergency Service incidents

	<i>NSW</i>	<i>Vic</i>	<i>Qld (e)</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>	<i>Total</i>
2014-15										
Floods, storm and tempest and other natural disasters										
Storms and cyclones	35 488	17 587	9 591	150	3 201	721	642	50	67 430	67 430
Flood	2 365	970	–	5	276	37	32	74	3 759	3 759
Other natural disasters (a)	na	1	–	14	4	–	–	–	na	19
Total	37 853	18 558	9 591	169	3 481	758	674	124	71 208	71 208
Search and rescue and emergency medical service										
Road crash rescue	431	993	137	69	402	371	–	8	2 411	2 411
Vertical rescue	30	30	38	13	28	–	–	5	144	144
Other search and rescue (b)	616	480	1 667	112	1 012	35	8	49	3 979	3 979
Community first response (c)	414	..	1 226	69	14	–	–	na	na	1 723
Total	1 491	1 503	3 068	263	1 456	406	8	62	8 257	8 257
Other emergency incidents (d)	722	1 627	–	104	299	52	49	64	2 917	2 917
Total	40 066	21 688	12 659	536	5 236	1 216	731	250	82 382	82 382
2013-14										
Floods, storm and tempest and other natural disasters										
Storms and cyclones	16 618	26 349	na	151	6 734	358	1 398	15	na	51 623
Flood	109	851	na	22	1 012	344	19	5	na	2 362
Other natural disasters (a)	870	–	na	1	1 391	–	–	–	na	2 262
Total	17 597	27 200	na	174	9 137	702	1 417	20	na	56 247
Search and rescue and emergency medical service										
Road crash rescue	597	1 032	na	20	791	421	..	10	na	2 871
Vertical rescue	26	40	na	10	23	–	..	6	na	105
Other search and rescue (b)	624	472	na	101	338	25	9	16	na	1 585
Community first response (c)	430	..	na	..	7	..	..	..	na	437
Total	1 677	1 544	na	131	1 159	446	9	32	na	4 998
Other emergency incidents (d)	34	na	na	224	..	63	64	90	na	475

Table DA.18 **State and Territory Emergency Service incidents**

	<i>NSW</i>	<i>Vic</i>	<i>Qld (e)</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>	<i>Total</i>
Total	19 308	28 744	na	529	10 296	1 211	1 490	142	na	61 720

(a) Other natural disasters includes landscape fire (bushfire and wildfire) support.

(b) Other search and rescue includes land, air and marine searches.

(c) Community first responders are trained volunteers that provide an emergency response to medical emergencies (with no transport capacity) and provide first aid care before ambulance arrival. Community first response programs are provided by the SES in NSW and SA.

(d) Other emergency incidents includes metropolitan firefighting support, ambulance support, miscellaneous support, and temporary building repairs.

(e) Jurisdiction notes:

Qld: Estimates of the number of incidents that the Queensland SES attended in 2013-14 are not available.

na Not available. .. Not applicable. – Nil or rounded to zero.

Source: State and Territory governments (unpublished).

Table DA.19 State and Territory Emergency Service hours in attendance (a)

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
2014-15									
Floods, storm and tempest and other natural disasters									
Storms and cyclones	na	98 744	66 451	15 197	26 408	3 621	2 965	3 388	na
Flood	na	4 999	–	–	1 352	385	136	389	na
Other natural disasters (b)	na	1	–	1	129	–	–	–	131
Total	na	103 744	66 451	15 198	27 889	4 006	3 101	3 777	na
Search and rescue and emergency medical service									
Road crash rescue	na	10 692	526	349	4 402	2 315	–	144	na
Vertical rescue	na	444	240	147	416	–	–	391	na
Other search and rescue (c)	na	2 171	12 288	5 801	33 380	1 319	702	1 057	na
Community first response (d)	na	–	7 499	324	251	–	–	na	na
Total	na	13 307	20 553	6 621	38 449	3 634	702	1 592	na
Other emergency incidents (e)	na	25 852	–	10 063	5 980	587	1 923	1 086	45 491
Total	na	142 903	87 004	31 882	72 318	8 227	5 726	6 455	354 515
2013-14									
Floods, storm and tempest and other natural disasters									
Storms and cyclones	173 960	168 041	17 848	6 476	55 610	1 706	6 990	133	430 764
Flood	1 282	3 486	1 031	112	4 966	1 538	95	16	12 526
Other natural disasters (b)	19 190	–	na	–	34 423	–	–	–	53 613
Total	194 432	171 527	18 879	6 588	94 999	3 244	7 085	148	496 902
Search and rescue and emergency medical service									
Road crash rescue	3 920	11 889	1 047	299	8 665	2 702	..	111	28 633
Vertical rescue	349	859	101	210	342	–	..	220	2 081
Other search and rescue (c)	14 872	2 103	26 042	7 072	10 268	687	998	644	62 686
Community first response (d)	1 315	..	..	..	136	..	..	..	1 451
Total	20 456	14 851	27 190	7 581	19 411	3 389	998	975	94 851
Other emergency incidents (e)	153	na	21 957	3 318	na	860	1 807	1 000	29 095

Table DA.19 **State and Territory Emergency Service hours in attendance (a)**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
Total	215 041	186 378	68 026	17 487	114 410	7 493	9 890	2 123	620 848

- (a) Totals may not sum due to rounding.
- (b) Other natural disasters includes landscape fire (bushfire and wildfire) support.
- (c) Other search and rescue includes land, air and marine searches.
- (d) Community first responders are trained volunteers that provide an emergency response to medical emergencies (with no transport capacity) and provide first aid care before ambulance arrival. Community first response programs are provided by the SES in NSW and SA.
- (e) Other emergency incidents includes metropolitan firefighting support, ambulance support, miscellaneous support, and temporary building repairs.

na Not available. .. Not applicable. – Nil or rounded to zero.

Source: State and Territory governments (unpublished).

Table DA.20 **Deflators (a), (b), (c)**

	General Government Final Consumption Expenditure (GGFCE) price deflator	Domestic final demand (DFD) chain price index
	<i>2014-15 dollars (2014-15=100)</i>	<i>2014-15 dollars (2014-15=100)</i>
<i>Nominal dollars (year)</i>		
1985-86		43.8
1986-87		47.3
1987-88		50.1
1988-89		53.4
1989-90		56.6
1990-91		59.0
1991-92		60.3
1992-93		61.2
1993-94		62.2
1994-95		63.1
1995-96		64.5
1996-97		65.0
1997-98		65.8
1998-99		66.9
1999-00		67.9
2000-01		71.1
2001-02		72.9
2002-03		74.8
2003-04		76.0
2004-05		78.0
2005-06	77.8	80.4
2006-07	80.7	83.0
2007-08	83.9	85.7
2008-09	87.2	89.3
2009-10	89.6	90.8
2010-11	94.2	92.6
2011-12	95.7	94.0
2012-13	97.0	96.0
2013-14	98.3	98.3
2014-15	100.0	100.0

(a) Data are sourced from table 36, Expenditure on Gross Domestic Product (GDP), Chain volume measures and current prices, Annual (Series ID: A2304687R – GGFCE and A2304685K – DFD) (ABS 2015). See Statistical context, section 2.6 Statistical concepts used in the Report for information on how these gross domestic product deflators were calculated using data from that source.

Table DA.20 **Deflators (a), (b), (c)**

	General Government Final Consumption Expenditure (GGFCE) price deflator	Domestic final demand (DFD) chain price index
	<i>2014-15 dollars (2014-15=100)</i>	<i>2014-15 dollars (2014-15=100)</i>

- (b) Estimates used to calculate the GGFCE Chain price indexes are subject to annual re-referencing by the Australian Bureau of Statistics (ABS) and also reflect any revisions inherent in source data which are aggregated up to the GGFCE level. These processes can cause volatility in deflator values from year to year. In addition to changes caused by re-referencing and source data revisions, starting from the 2013-14 deflator, the deflator in this table will differ in future reports due to the introduction by the ABS of updated supply-use benchmarks, which will be backcast, causing revisions throughout the time series.
- (c) To convert nominal dollars to real dollars, divide the amount in nominal dollars by the GGFCE Chain price indexes for the applicable financial year and multiply by 100. For example: to convert 2005-06 dollars to 2014-15 dollars, divide by 77.8 and multiply by 100; to convert 2008-09 dollars to 2013-14 dollars, divide by 88.7 and multiply by 100. For further information, see Statistical context, table 2.2, p. 2.14.

Source: Review calculations based on ABS (2015) *Australian National Accounts: National Income, Expenditure and Product, June 2015*, Cat. no. 5206.0, Canberra.

Data quality information — Emergency management sector overview (sector overview D)

Data quality information

Data quality information (DQI) provides information against the seven ABS data quality framework dimensions, for performance indicators and/or measures in the Emergency management sector overview.

Technical DQI has been supplied or agreed by relevant data providers. Additional Steering Committee commentary does not necessarily reflect the views of data providers.

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Community preparedness for emergency events	2
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Community preparedness for emergency events

Data quality information for this indicator has been drafted by the Emergency Management Working Group in consultation with the Emergency Management Working Group (EMWG), with additional Steering Committee comments.

Indicator definition and description

Element	Emergency management sector performance indicator framework – Sector wide indicators
Indicator	Total asset loss from emergency events
Measure (computation)	'Proportion of Australians that have developed emergency plans for natural disasters' is defined as the proportion of Australians that developed emergency plans (evacuations/meeting places) for natural disasters.
Data source	Western, M., Mazerolle, L., & Boreham, P. (2012), National Security and Preparedness Survey 2011-2012. Brisbane: Institute for Social Science Research and the Australian Research Council Centre of Excellence in Policing and Security, The University of Queensland, 2012.

Data Quality Framework dimensions

Institutional environment	<p>The study is funded by:</p> <ul style="list-style-type: none">• the Australian Research Council Centre of Excellence in Policing and Security (CEPS) — CEPS is a complex research enterprise consisting of multiple collaborating researchers, and university and partner organisations. CEPS is administered by Griffith University in Brisbane and operates across four University Nodes• the University of Queensland — the study is led by researchers from the Institute for Social Science Research (ISSR) at the University of Queensland. ISSR is a division of The University of Queensland. The institute provides research and postgraduate research training for the social sciences.• the Queensland Government. <p>In kind support to the study is provided by the University of Queensland, the Queensland Government, and the Australian Institute of Criminology.</p>
Relevance	<p>Data are available nationally and by state and territory for the 2011-12 financial year.</p> <p>The questionnaire covers a range of issues, including the following topics:</p> <ul style="list-style-type: none">• confidence and attitudes towards national security and policing measures• confidence and attitudes towards policing and national security agencies• relationships and interactions with national security and policing agencies• perceptions of personal security and national security• self-reported impact on individual behaviours• emergency preparedness• community resilience.
Timeliness	<p>The project gathered cross-sectional indicators of economic, social and cultural wellbeing to assess community perceptions of community preparedness, resilience, vulnerability and their attitudes to key policing and security policies, laws and programs. Future surveys will also collect panel and longitudinal information.</p> <p>The National Security and Preparedness Survey (NSPS) began survey recruitment in November 2011 and concluded in May 2012.</p>

Accuracy	<p>A final random sample of survey respondents (N= 4258) was recruited from all six states and two territories.</p> <p>The survey was designed to produce descriptive statistics and these may not be representative of the population. Confidence intervals have been prepared for this Report on the assumption that a random sample of the population was selected.</p> <p>The NSPS was implemented via Computer Assisted Telephone Interview (CATI) recruitment, followed by mail out/online surveys in November 2011.</p> <p>Summary statistics (minimum, maximum, mean, median, and standard deviation) are available for most variables collected in the survey.</p> <p>A series of floods in northern New South Wales and southern Queensland in January and February 2012 may have influenced respondent perceptions about, and/or actions around, disaster preparedness.</p>
Coherence	<p>The results of the survey, in concert with a similar survey simultaneously being conducted in the US and possibly other countries that are part of the START consortium, will be useful to the range of government agencies involved in anti-and counter-terrorism initiatives.</p>
Accessibility	<p>The ISSR research team will conduct analysis of the data from the National Survey. There are currently no papers published, but a number in preparation.</p> <p>For selected results from the survey please contact the ISSR research team or CEPS.</p>
Interpretability	<p>A Technical Report on the survey methodology, survey question wording, and collection instruments are available from the ISSR or CEPS on request.</p>

Data Gaps/Issues Analysis

Key data gaps/issues	<p>The Steering Committee notes the following issue:</p> <ul style="list-style-type: none"> • The NSPS has been conducted as a one-off collection at the University of Queensland. Further work to repeat the survey in the future (or the development of time series data) would be welcomed.
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Deaths from emergency events

Data quality information for this indicator has been drafted by the Secretariat in consultation with the ABS, with additional Steering Committee comments.

Indicator definition and description

Element Emergency management sector performance indicator framework – Sector wide indicators

Indicator Deaths from emergency events

Measure/s (computation) Deaths from emergency events' is defined as the number of deaths per calendar year in three categories:

- *Road traffic deaths* — deaths primarily caused by accidents involving transport vehicles (mainly cars)
- *Fire deaths* — deaths primarily caused by exposure to smoke, fire or flames
- *Deaths from exposure to forces of nature* — deaths primarily caused by exposure to forces of nature, such as natural disasters, or extreme climatic or weather conditions.

Numerator/s

The following International Classification of Diseases (ICD) codes are aggregated to define the data set:

- *Road traffic deaths* — include ICD codes Road traffic accidents (V01–V79), Intentional self-harm by crashing of motor vehicle (X82), Assault by crashing of motor vehicle (Y03), and Crashing of motor vehicle, undetermined intent (Y32).
- *Fire deaths* — include ICD codes Exposure to smoke, fire and flames (X00–X09), Intentional self-harm by smoke, fire and flames (X76), Assault by smoke, fire and flames (X97), and Exposure to smoke, fire and flames, undetermined intent (Y26).
- *Deaths from exposure to forces of nature* — includes ICD codes Exposure to excessive natural heat (X30), Exposure to excessive natural cold (X31), Exposure to sunlight (X32), Victim of lightning (X33), Victim of earthquake (X34), Victim of volcanic eruption (X35), Victim of avalanche, landslide and other earth movements (X36), Victim of cataclysmic storm (X37), Victim of flood (X38), and Exposure to other and unspecified forces of nature (X39).

Denominator

Population by State and Territory and Australian total

The measure is expressed by State and Territory and Australian total, by ICD code detail and total, as an annual, and a three year rolling weighted average rate per million people.

Data source/s

Numerator

ABS *Causes of Death, Australia*, Cat. no. 3303.0 (Underlying causes of death, State and Territory tables, published and unpublished data).

Denominator

ABS *Estimated Residential Population*, Cat. no. 3101.0 (for more detail about the population data used in the Report see RoGS Statistical context (chapter 2)).

Data Quality Framework Dimensions

Institutional environment

The Causes of Death collection is published by the Australian Bureau of Statistics (ABS), with data sourced from deaths registrations administered by the various State and Territory Registrars of Births, Deaths and Marriages. It is a legal requirement of each State and Territory that all deaths are registered.

The ABS operates within a framework of the Census and Statistics Act 1905 and the Australian Bureau of Statistics Act 1975. These Acts ensure the confidentiality of respondents and ABS' independence and impartiality from political influence. For more information on the institutional environment of the ABS, including the legislative obligations of the ABS, financing and governance arrangements, and mechanisms for scrutiny of ABS operations, please see ABS Institutional Environment.

Relevance	<p>The ABS Causes of Death collection includes all deaths that occurred and were registered in Australia, including deaths of persons whose usual residence is overseas. Deaths of Australian residents that occurred outside Australia may be registered by individual Registrars, but are not included in ABS deaths or causes of death statistics.</p> <p>Data in the Causes of Death collection include demographic items, as well as Causes of Death information coded according to the International Classification of Diseases (ICD). The ICD is the international standard classification for epidemiological purposes and is designed to promote international comparability in the collection, processing, classification, and presentation of cause of death statistics. The classification is used to classify diseases and causes of disease or injury as recorded on many types of medical records as well as death records. The ICD has been revised periodically to incorporate changes in the medical field. The 10th revision of ICD (ICD-10) has been used since 1997.</p>
Timeliness	<p>Causes of Death data are published on an annual basis.</p> <p>Death records are provided electronically to the ABS by individual Registrars on a monthly basis for compilation into aggregate statistics on a quarterly and annual basis. One dimension of timeliness in death registrations data is the interval between the occurrence and registration of a death. As a result, a small number of deaths occurring in one year are not registered until the following year or later.</p> <p>Preliminary Estimated Residential Population (ERP) data are compiled and published quarterly and are generally made available five to six months after the end of each reference quarter. Commencing with data for September quarter 2006, revised estimates are released annually and made available 21 months after the end of the reference period for the previous financial year, once more accurate births, deaths and net overseas migration data becomes available. In the case of births and deaths, the revised data are compiled on a date of occurrence basis. In the case of net overseas migration, final data are based on actual traveller behaviour. Final estimates are made available every 5 years after a census and revisions are made to the previous inter-censal period. ERP data are not changed once finalised. Releasing preliminary, revised and final ERP involves a balance between timeliness and accuracy.</p>
Accuracy	<p>All ERP data sources are subject to non-sampling error. Non-sampling error can arise from inaccuracies in collecting, recording and processing the data. In the case of Census and Post Enumeration Survey (PES) data, every effort is made to minimise reporting error by the careful design of questionnaires, intensive training and supervision of interviewers, and efficient data processing procedures.</p> <p>For the Causes of Death collection, which constitutes a complete census of the population, non-sample errors are most likely to influence accuracy. Non-sample error arises from inaccuracies in collecting, recording and processing the data. The most significant of these errors are: misreported data items; deficiencies in coverage; incomplete records; and processing errors. Every effort is made to minimise non-sample error by working closely with data providers, running quality checks throughout the data processing cycle, training of processing staff, and efficient data processing procedures.</p> <p>The ABS has implemented a new revisions process that applies to all coroner certified deaths registered after 1 January 2006. This is a change from previous years where all ABS processing of causes of death data for a particular reference period was finalised approximately 13 months after the end of the reference period. The revisions process enables the use of additional information relating to coroner certified deaths as it becomes available over time, resulting in increased specificity of the assigned ICD-10 codes. See Explanatory Notes 29-33 and Technical Notes, Causes of Death Revisions, 2006 in <i>Causes of Death, Australia, 2010</i> (cat. no. 3303.0) and Causes of Death Revisions, 2010 and 2011 in <i>Causes of Death, Australia, 2012</i> (cat. no. 3303.0), for further information on the revision process.</p> <p>Some rates are unreliable due to small numbers of deaths over the reference period. All rates in this indicator must be used with caution.</p>
Coherence	<p>The ABS provide source data for the numerator and denominator for this indicator.</p> <p>The number of road traffic deaths provided in <i>Causes of Death</i> (ABS Cat. no. 3303.0) is different to the number of 'Road fatalities' presented in Police services (chapter 6). The ABS source their data from death registrations recorded by the State and Territory</p>

	<p>Registrars of Births, Deaths and Marriages (where each death must be certified by either a doctor using the Medical Certificate of Cause of Death, or by a coroner). 'Road fatalities' in chapter 6 provides more recent data sourced by the Australian Road Deaths Databases reported by the police each month to the State and Territory road safety authorities.</p>
Accessibility	<p>Causes of Death data are available in a variety of formats on the ABS website, www.abs.gov.au, under Causes of Death, Australia (Cat. no 3303.0).</p> <p>ERP data are available in a variety of formats on the ABS website, www.abs.gov.au, under the 3101.0 and 3201.0 product families.</p> <p>Further information on deaths and mortality may be available on request. The ABS observes strict confidentiality protocols as required by the Census and Statistics Act (1905). This may restrict access to data at a very detailed level.</p>
Interpretability	<p>Data for this indicator are presented as crude rates, per million estimated resident population, and as three year rolling averages due to volatility of the small numbers involved.</p> <p>Information on how to interpret and use the cause of death data is available from the Explanatory Notes in Causes of Death, Australia (Cat. no 3303.0).</p> <p>Small value data are randomly adjusted to avoid the release of confidential data.</p> <p>Causes of death statistics for states and territories have been compiled in respect of the state or territory of usual residence of the deceased, regardless of where in Australia the death occurred and was registered.</p> <p>The ERP is Australia's population reported by state and territory and by place of usual residence.</p>

Data Gaps/Issues Analysis

Key data gaps /issues	<p>The Steering Committee notes the following key data gaps/issues:</p> <ul style="list-style-type: none"> • Timeliness — data available for the Report on Government Services are delayed by one reference year. This is due to a tradeoff between accuracy and timeliness. • Volatility — due to the small numbers of emergency event deaths annually, there is a high level of volatility in reported indicator rates. It is important therefore to assess longer term trends where data are available.
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Total asset loss from emergency events

Data quality information for this indicator has been drafted by the Secretariat in consultation with the Australian Government, with additional Steering Committee comments.

Indicator definition and description

Element	Emergency management sector performance indicator framework – Sector wide indicators
Indicator	Total asset loss from emergency events
Measure/s (computation)	<p><u>Insured losses from disaster events</u></p> <p>‘Insured losses from disaster events’ data are defined as the insured asset losses incurred by the community following disaster event.</p> <p>Estimates of asset losses are derived from the submissions of general insurance companies following large events incurring cost to the community and insurers.</p> <p>To be included as a disaster event, natural, technological and human-caused events must meet at least one of the following criteria:</p> <ul style="list-style-type: none">• three or more deaths• 20 injuries or illnesses• significant damage to property, infrastructure, agriculture or the environment; or disruption to essential services, commerce or industry; or trauma or dislocation of the community at an estimated total cost of \$10 million or more at the time the event occurred. <p>For the <i>Report on Government Services</i> the following event types are in scope:</p> <ul style="list-style-type: none">• Bushfire• Cyclone• Earthquake• Environmental• Flood• Hail• Landslide• Severe Storm• Tornado• Tsunami• Urban fire. <p><u>Deflator</u></p> <p>Time series financial data are adjusted to real dollars using the General Government Final Consumption Expenditure (GGFCE) chain price deflator.</p>
Data source/s	<p><u>Numerator</u></p> <p>Australian Government 2013, <i>Australian Emergency Management: Knowledge Hub</i>, maintained by the Australian Emergency Management Institute, http://www.emknowledge.gov.au (accessed 23 April 2013)</p> <p><u>Denominator</u></p> <p>ABS 2013, Australian National Accounts: National Income, Expenditure and Product, June 2013, Cat. no. 5206.0</p>

Data Quality Framework Dimensions

Institutional environment	<p><u>Data Collector: Insurance Council of Australia (ICA)</u></p> <p>Collection authority: Data are derived from the submissions of ICA member general insurance companies following large events incurring cost to the community and insurers.</p> <p>The Insurance Council of Australia is the representative body of the general insurance industry in Australia. Its members represent more than 90 per cent of total premium income written by private sector general insurers.</p> <p><u>Data Compiler: The Australian Emergency Management Institute (AEMI)</u></p> <p>The AEMI hosts the Australian Emergency Management Knowledge Hub. The Knowledge Hub provides research, resources and news relevant to emergency</p>
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management and includes statistics and information, photos, video and media about past disaster events.

The AEMI is a centre of excellence for knowledge and skills development in the national emergency management sector. As a part of the Attorney-General's Department, AEMI provides a range of education, training, professional development, information, research and community awareness services to the nation and our region.

Relevance Data topic: Estimates of asset losses are derived from the submissions of general insurance companies following large events incurring cost to the community and insurers.

Level of geography: The incurred cost of claims is available for each declared emergency event can be coded to state/territory locations.

Key Data Items: The incurred cost of claims is available for each declared emergency event by disaster/event type, Catastrophe Number (if declared), date, location, state, original cost and normalised cost.

Additional information: Value of asset loss is a measure of the economic cost of emergency events. The prevention/mitigation, preparedness, and response activities of government contribute to reduce the value of total asset loss from emergency events. A low or decreasing value of total asset loss from emergency events is desirable.

Timeliness Data collected: Data are available for individual emergency events, allowing for the creation of financial year and/or calendar year data.

Data available: Reports are available approximately four months after the reference period.

Additional information: The final loss figure for an event can take many years to resolve.

Accuracy The asset loss data do not represent the entire cost of the event, it is only an approximation of the insured loss based upon reported data.

- The final loss figure for an event can take many years to resolve.
- Events are only recorded where there is a potential for the insured loss to exceed \$10 million. Many large single losses occur on a day to day basis in Australia that are not part of a larger catastrophe event.
- Other costs not taken into account include:
 - the losses of insurance companies that are not a member of the Insurance Council.
 - costs incurred by emergency services; local, State, Territory and Commonwealth governments; non-government organisations; and by local governments during clean-up
 - remedial and environmental damage costs (including pollution of foreshores and riverbanks and beach erosion)
 - costs associated with community dislocation
 - costs associated with job losses
 - costs associated with rehabilitation/recovery
 - medical and funeral costs associated with injuries and deaths.

Coherence Insurance companies must adhere to common accounting practices for insurance companies, and provide data according to an agreed classification system.

Accessibility The Attorney-General's Department aims to make information on the Knowledge Hub website accessible to all users. Data are available in a variety of formats on the website, www.emknowledge.gov.au.

Interpretability Insurance Statistics Australia publishes an Operations Guidebook, which documents the key collection processes, standards and classifications. The guidebook is available at:

- <http://www.insurancestats.com.au/objectives.html>

Data Gaps/Issues Analysis

Key data gaps /issues The Steering Committee notes the following key data gaps/issues:

- Volatility — due to the sporadic nature of emergency events, there is a high level of volatility in reported asset loss data. It is important therefore to assess longer term trends where data are available.