9 Emergency services for fire and other events interpretative material

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The Emergency services for fire and other events interpretative material is supporting material and includes explanations of why indicators have been chosen, and wherever

possible, a link to the stated objectives of the service. It includes indicator definitions, technical details defining how the indicator is measured and guidance on how the indicator is to be interpreted, including caveats and the indicator's completeness and comparability status.

Further information on the Report on Government Services including other reported service areas, the glossary and list of abbreviations is available at https://www.pc.gov.au/research/ongoing/report-on-government-services.

9.1 Context

Detailed activities by jurisdiction for fire service organisations and state and territory emergency services organisations are available in tables 9.1 and 9.2 respectively. The scope of data reported for fire service organisations is presented in table 9.3

Each State and Territory government operates multiple emergency service agencies, which service different populations and geographic areas according to specified governance arrangements (table 9.4).

Table 9.1	Activities of fire service organisations
-----------	--

	NSW	Vic	Qld	WA	SA	Tas	ACT	NT
Fire prevention								
Advice on rural land management	\checkmark							
Preparation of risk assessment and emergency plans	\checkmark							
Inspection of property and building for fire hazards and fire standards compliance	\checkmark							
Inspection of storage and handling	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	x	\checkmark
Fire preparedness								
Preparation of response plans	\checkmark							
Public training and intervention	\checkmark							
Promotion of fire alerting systems	\checkmark							
Training of fire personnel	\checkmark							
Sale and maintenance of fire protection equipment	\checkmark	\checkmark	×	×	×	\checkmark	×	×
Hazardous chemicals and material certification	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	×	×	×
Non-fire preparedness								
Counter-terrorism	\checkmark							
Critical infrastructure protection	\checkmark							
National security support	\checkmark							

	NSW	Vic	Qld	WA	SA	Tas	ACT	NT
Fire response								
Structural fire suppression	\checkmark							
Wild fire suppression	\checkmark							
Response to incident involving hazardous substances	\checkmark							
Interagency response/incident management arrangements	\checkmark							
Non-fire response								
Hazardous materials incidents	\checkmark							
Chemical biological and radiological incidents	\checkmark							
Aircraft/airport incident response	\checkmark							
Medical emergencies	\checkmark	\checkmark	\checkmark	×	\checkmark	\checkmark	\checkmark	\checkmark
Road crash rescue	\checkmark							
Industrial rescue	\checkmark							
Other rescue	\checkmark							
Storm damage	\checkmark							
Natural events	\checkmark							
Marine response	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	×	\checkmark	\checkmark
Technological and hazardous materials incidents	\checkmark							
Emergency relief and recovery	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	×	x
Vertical rescue	\checkmark							
Urban search and rescue	\checkmark							

Table 9.1 Activities of fire service organisations (continued)

	J	(/					
	NSW	Vic	Qld	WA	SA	Tas	ACT	NT
Fire recovery								
Critical incident stress debriefing	\checkmark							
Salvage and restoration of the emergency event to a safe state	\checkmark							
Support for the community	\checkmark	×a						
Post incident analysis of events	\checkmark							

Table 9.1 Activities of fire service organisations (continued)

^a Bushfires NT (land management agency) provides post-incident community support.

	NSW	Vic	Qld	WA	SA	Tas	ACT	N7
Floods, storm and tempest and other natural disasters								
Tropical cyclone response	×	x	\checkmark	\checkmark	x	×	x	\checkmark
Storm damage	\checkmark							
Flood response	\checkmark							
Earthquakes	√a	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	√a	\checkmark
Tsunami response	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	√a	×	\checkmark
Search and rescue and emergency medical service								
Road crash rescue	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	×	\checkmark
Vertical rescue	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	√a	×	\checkmark
Land search and rescue	√a	√a	√a	√a	\checkmark	√a	√a	\checkmark
Urban search and rescue	√a	\checkmark	√a	√a	\checkmark	√a	√a	√a
Inland marine search and rescue	√a	√a	√a	√a	\checkmark	√a	×	\checkmark
Offshore marine search and rescue	×	√a	×	√b	\checkmark	x	√b	\checkmark
Other emergency incidents								
Hazardous conditions	\checkmark							
Civil defence	\checkmark	\checkmark	x	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
National security support	√a	\checkmark	√a	\checkmark	\checkmark	√a	\checkmark	√a
Support to emergency service organisations	\checkmark							
Support services								
Conduct of emergency management courses	×	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	×	\checkmark
Public safety awareness and education	\checkmark							
Assistance for municipal planning	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	x	\checkmark

Table 9.2 Activities of state and territory emergency services

	NSW	Vic	Qld	WA ^a	SA	Tas	ACT	NT	
Support services									
Air observer ^b	√a	√a	√a	√a	\checkmark	√a	\checkmark	\checkmark	
Landslip	x	√C	x	×	×	x	×	×	
Incident air monitoring	x	√C	x	×	×	x	×	x	

Table 9.2 Activities of state and territory emergency services (continued)

^a This role is to provide support to another agency in this activity. ^b WA and ACT SES undertake air observer duties offshore only. They do not participate in sea rescue. ^c New responsibilities for Victorian SES from 2016-17.

	NSW	Vic	Qld	WA	SA	Tas	ACT	N7
Fire service organisation financial data tables								
Table 9A.1 Major sources of fire service organisations revenue and	UD ×	UD ×	UD √	UD √	UD ×	UD ×	UD ×	UD ×
revenue per person	FSP √							
	LMA √	LMA √	LMA ×	LMA √	LMA ×	lma √	LMA ×	LMA √
Table 9A.3 Fire service organisations human resources	UD ×	UD ×	UD √	UD √	UD ×	UD ×	UD ×	UD ×
	FSP √							
	LMA √	LMA √	LMA ×	LMA √	LMA ×	LMA ×	LMA ×	LMA √
Table 9A.13 Fire service organisations' expenditure and	UD ×	UD ×	UD √	UD √	UD ×	UD ×	UD ×	UD ×
expenditure per person	FSP √							
	LMA √	LMA √	LMA ×	LMA √	LMA ×	LMA √	LMA ×	LMA √
Fire service organisation activity data tables								
Table 9A.6 Confinement of building fires to room of origin	UD	UD	UD √	UD	UD	UD	UD	UD
	FSP √							
	LMA √	LMA ×	LMA √					
Table 9A.8 Fire incidents attended by fire service organisations	UD	UD	UD √	UD	UD	UD	UD	UD
	FSP √							
	LMA √	LMA √	LMA ×	LMA √	LMA ×	LMA ×	LMA ×	LMA √
Table 9A.8 Landscape fires (bush and grass) incidents	UD	UD	UD √	UD	UD	UD	UD	UD
	FSP √							
	LMA ✓	LMA √	LMA ×	LMA √	LMA ×	LMA ×	LMA ×	LMA √

Table 9.3Scope of fire service organisation data provided by jurisdictions

UD = Umbrella department **FSP** = Fire service provider **LMA** = Land management agency

^a DFES provides a wide range of emergency services under an integrated management structure. Data cannot be segregated by service and includes State Emergency Service and volunteer marine services as well as fire. ^b Data provided for Bushfires NT, but not other land management agencies. .. Not applicable

Table 9.3Scope of 'fire service organisation' d	lata provide	d by juri	sdictions	(continued)			
	NSW	Vic	Qld	WA ^a	SA	Tas	ACT	NTb
Fire service organisation activity data tables								
Table 9A.8 Hazardous materials incidents	UD	UD	UD ✓	UD	UD	UD	UD	UD
	FSP ✓	FSP √	FSP ✓	FSP √	FSP ✓	FSP ✓	FSP ✓	FSP ✓
	LMA ✓	LMA ×	LMA ×	LMA ×	LMA ×	LMA ×	LMA ×	LMA ✓
Table 9A.8 Reported road crash rescue incidents and road crash rescue extrications	UD	UD	UD ✓	UD	UD	UD	UD	UD
	FSP ✓	FSP √	FSP ✓	FSP √	FSP ✓	FSP ✓	FSP ✓	FSP ✓
	LMA ✓	LMA ×	LMA ×	LMA ×	LMA ×	LMA ×	LMA ×	LMA ✓
Table 9A.9 Accidental structure fires per 100 000 households	UD	UD	UD ✓	UD	UD	UD	UD	UD
	FSP ✓	FSP √	FSP ✓	FSP √	FSP ✓	FSP ✓	FSP √	FSP √
	LMA ✓	LMA ×	LMA ×	LMA ×	LMA ×	LMA ×	LMA ×	LMA √
Tables 9A.11-12 Response times to structure fires, including and excluding call taking time, by remoteness area	UD	UD	UD ✓	UD	UD	UD	UD	UD
	FSP ✓	FSP √	FSP ✓	FSP √	FSP ✓	FSP ✓	FSP ✓	FSP √
	LMA ✓	LMA ×	LMA ×	LMA ×	LMA ×	LMA ×	LMA ×	LMA √

UD = Umbrella department **FSP** = Fire service provider **LMA** = Land management agency

^a DFES provides a wide range of emergency services under an integrated management structure. Data cannot be segregated by service and includes State Emergency Service and volunteer marine services as well as fire. ^b Data provided for Bushfires NT, but not other land management agencies. .. Not applicable

	Umbrella department	Fire service provider	Land management agency
NSW	 NSW Ministry for Police and Emergency Services NSW Office of Emergency Management 	 Fire & Rescue NSW: government department reports to the Minister for Police and Emergency Services directly. NSW Rural Fire Service: government department reports to the Minister for Police and Emergency Services directly. 	 NSW Department of Environment, Climate Change and Water NSW National Park and Wildlife Service Forests NSW NSW Lands Department NSW Water Authorities
Vic	 Department of Justice and Community Safety 	 Metropolitan Fire and Emergency Services Board: statutory authority reports to the Minister for Police and Emergency Services. Country Fire Authority: statutory authority reports to the Minister for Police and Emergency Services. 	 Department of Environment, Land, Water & Planning
Qld	 November 2013 bringing together a range of the former Department of Community Safety Queensland Fire and Rescue Service and Emer QFES is the primary provider of fire and rescue services throughout Queensland. The department disaster management services, Rural Fire Servic persons, property and the environment through preparedness, response and recovery activities including natural and human induced disasters. 	and emergency management programs and ent encompasses the Fire and Rescue Service, ice and State Emergency Service. QFES protects the provision of effective prevention, across a range of fire and emergency events Through service agreements, QFES also supports response to Queenslanders. The Commissioner	 Energy Department of Environment and Science

Table 9.4 Delivery and scope of activity of primary fire service organisations^a

^a Excludes brigades employed by large scale public and private land managers; port, mining and other infrastructure brigades; and land management departments and brigades operating under Australian jurisdiction (for example, airport and defence installations). .. Not applicable.

	Umbrella department	Fire service provider	Land management agency
Qld	 renaming of the Department of Community Queensland's public safety agencies: QFE Management and the Queensland Police S undertaken by the Public Service Commiss structure of PSBA to ensure it effectively s community. In line with the review recomm commencing 1 July 2016. With a range of functions reallocated from Capital Management; Strategic Services; a 1 July 2016, PSBA's core responsibilities a technology, financial, procurement, asset r 	A) was established on 1 November 2013 with the v Safety, to provide strategic and corporate services to S; Office of the Inspector-General Emergency Service. In 2015, an independent review of PSBA was sion. The review considered the scope, function and upported public safety service delivery to the endations a number of functions transitioned to QFES PSBA, QFES established directorates for Human and Executive, Ministerial and Corporate Services. From the to provide information and communication nanagement and human resource services to the public rvices by PSBA allows frontline agencies to focus their vices to the community.	 Department of Natural Resources, Mines and Energy Department of Environment and Science
WA	the umbrella organisation for fire and emer and emergency service in WA, DFES inclu State Emergency Service, Volunteer Fire a Rescue Services in its operational comma	es (DFES). DFES is both the fire service provider and gency services in Western Australia. As the primary fire des the Fire and Rescue Career and Volunteer Service, and Emergency Service Units and the Volunteer Marine nds. Bush Fire Brigades are administered by local and reserves the responsibility of the Department of	 Department of Biodiversity, Conservation and Tourism
SA	Fire and Emergency Services Commission	 South Australian Metropolitan Fire Service: body corporate reports to the SA Fire and Emergency Services Commission. South Australian Country Fire Service: body corporate reports to the SA Fire and Emergency Services Commission. 	Forestry SADepartment of Environment and Water

Table 94 Delivery and scope of activity of primary fire service organisations^a (continued)

brigades operating under Australian jurisdiction (for example, airport and defence installations). .. Not applicable.

	Umbrella department	Fire service provider	Land management agency
Tas	•	• Tasmania Fire Service: operational arm of the State Fire Commission, reports to the Minister for Police Fire and Emergency Management.	Sustainable Timber Tasmania
ACT	ACT Emergency Services Agency within the Justice and Community Safety Directorate	• ACT Fire and Rescue and ACT Rural Fire Service: services of the ACT Emergency Services Agency within the Justice and Community Safety Directorate, together report to the ACT Minister for Police and Emergency Services.	 Parks and Conservation Service
NT	 NT Fire, Rescue and Emergency Services Department of Environment and Natural Resources 	• The NT Fire and Rescue Service has amalgamated with the NT Emergency Service. One Executive Director exists across both services reporting to the Chief Executive Officer for Police, Fire and Emergency Services, who reports to the Minister for Police, Fire and Emergency Services.	 Bushfires NT is a division of the Department of Environment and Natural Resources and manages bushfires in all non-urban areas across the NT. The Executive Director, Bushfires NT, reports to the Chief Executive Officer of the Department of Environment and Natural Resources who reports directly to the Minister. Bushfires NT collaborates with independent volunteer bushfire brigades to provide this service. Parks and Wildlife Commission of the NT

Table 9.4 Delivery and scope of activity of primary fire service organisations^a (continued)

^a Excludes brigades employed by large scale public and private land managers; port, mining and other infrastructure brigades; and land management departments and brigades operating under Australian jurisdiction (for example, airport and defence installations). ... Not applicable.

9.2 Indicators

Different delivery contexts, locations and types of clients can affect the equity, effectiveness and efficiency of emergency services.

The comparability of performance indicator results are shaded in indicator interpretation boxes, figures and data tables as follows:

Data are comparable (subject to caveats) across jurisdictions and over time.

Data are either not comparable (subject to caveats) within jurisdictions over time or are not comparable across jurisdictions or both.

The completeness of performance indicator results are shaded in indicator interpretation boxes, figures and data tables as follows:

Data are complete (subject to caveats) for the current reporting period. All required data are available for all jurisdictions.

Data are incomplete for the current reporting period. At least some data were not available.

Outputs

Outputs are the services delivered (while outcomes are the impact of these services on the status of an individual or group) (see section 1). Output information is also critical for equitable, efficient and effective management of government services.

Equity

Access — Response times to structure fires by geographic area

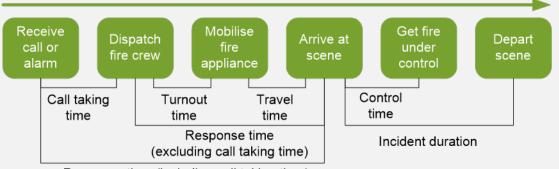
'Response times by geographic area' is a proxy indicator of governments' objective to provide fire services in an equitable manner (box 9.1).

Box 9.1 **Response times to structure fires by geographic area**

'Response times by geographic area' (as illustrated below) is defined as the time taken between the arrival of the first fire crew appliance at the scene of a structure fire and:

- initial receipt of the call at the communications centre (including call taking time), by remoteness area. Response time (*including* call taking time) reflects jurisdictions' overall responsiveness to the notification of a structure fire
- dispatch of the responding fire crew (excluding call taking time), by remoteness area. Response time (*excluding* call taking time) reflects service organisations' responsiveness to the notification of a structure fire.

Response times are calculated at the 50th and 90th percentile. (The time taken for 50 per cent of all responses to arrive at a structure fire is equal to or below the 50th percentile. The time taken for 90 per cent of all responses to arrive at a structure fire is equal to or below the 90th percentile). Calculations include responses by both permanent and volunteer brigades.



Response time (including call taking time)

Response time measures by geographic area are defined using the Australian Bureau of Statistics (ABS) Australian Statistical Geography Standard (ASGS) Remoteness structure for major cities, inner regional, outer regional, remote and very remote areas. There are no very remote areas in Victoria. There are no major cities in Tasmania (Hobart and Launceston are classified as inner regional areas). There are no outer regional, remote or very remote areas in the ACT (all areas are categorised as major city areas for this report). There are no major cities or inner regional areas in the NT (Darwin is classified as an outer regional area).

Many factors influence major city and remoteness area response times including:

- land area (which has particular impact across urban, rural and remote areas)
- population size and density (which has a particular impact in urban areas)
- the dispersion of the population (particularly rural/urban population proportions), topography, road/transport infrastructure and traffic densities
- crew configurations, response systems and processes, and travel distances for example, some jurisdictions include responses from volunteer stations (often in rural areas) where turnout times are generally longer because volunteers are on call as distinct from being on duty.

Similar response times across different geography suggest equitable access by area.

(continued next page)

Box 9.1 (continued)

Response times need to be interpreted with caution because the data are not directly comparable across jurisdictions. Differences between jurisdictions in definitions of response times, geography, personnel mix, and system type (manual or computer assisted dispatch) affect the comparability of response time data.

Data reported for these measures are:

not comparable across jurisdictions, but are comparable (subject to caveats) within jurisdictions over time

complete (subject to caveats) for the current reporting period. All required 2018-19 data are available for all jurisdictions.

Access — Access by special needs groups

'Access by special needs group' is an indicator of governments' objective to provide emergency services in an equitable manner (box 9.2).

Box 9.2 Access by special needs groups

'Access by special needs groups' measures the performance of agencies providing emergency services for identified special needs groups including Aboriginal and Torres Strait Islander people and people from culturally and linguistically diverse backgrounds.

Data are not yet available for reporting against this indicator.

Effectiveness

Response — Response times

'Response times' is an indicator of governments' objective to provide emergency services that are accessible and responsive (box 9.3).

Box 9.3 Response times

'Response times' is defined as the time taken between the arrival of the first fire crew appliance at the scene of a structure fire and:

- *initial receipt of the call at the communications centre*. Response time (*including* call taking time) reflects jurisdictions' overall responsiveness to the notification of a structure fire
- *dispatch of the responding fire crew.* Response time (*excluding* call taking time) reflects service organisations' responsiveness to the notification of a structure fire.

Shorter response times suggest that services are more accessible and responsive.

See box 9.2 for further information on the calculation of response times.

Data reported for these measures are:

not comparable across jurisdictions, but are comparable (subject to caveats) within jurisdictions over time

complete (subject to caveats) for the current reporting period. All required 2018-19 data are available for all jurisdictions.

Prevention/mitigation — Accidental residential structure fires per 100 000 households

'Accidental residential structure fires per 100 000 households' is an indicator of governments' objective to contribute to the community's management of risks through the promotion of risk reduction and mitigation activities (box 9.4).

Box 9.4 Accidental residential structure fires

'Accidental residential structure fires' is defined as the number of accidental residential structure fire incidents divided by the total number of households (multiplied by 100 000), where accidental residential structure fires are defined as fires that are not deliberately lit and could have been reduced or prevented with effective educational programs.

A low or decreasing incidence of accidental residential structural fire indicates greater community preparedness.

The rate of accidental residential structure fires per 100 000 households should be interpreted with caution. In particular, rates are affected by differences across jurisdiction in distinguishing accidental structure fires from structure fires resulting from other causes.

Data reported for this indicator are:

comparable (subject to caveats) across jurisdictions and over time

complete (subject to caveats) for the current reporting period. All required 2018-19 data are available for all jurisdictions.

Prevention/mitigation — Confinement to room/object of origin

'Confinement to room/object of origin' is an indicator of governments' objective to contribute to the community's management of risks through the promotion of risk reduction and mitigation activities (box 9.5).

Box 9.5 Confinement to room/object of origin

'Confinement to room/object of origin' is defined as the number of building fires confined to the object, part room and room of origin, divided by the number of building fires attributed to confinement. A building fire is a fire that has caused some damage to a building structure (such as a house).

A high or increasing proportion of structure fires confined to the object or room of origin is desirable.

Data reported for this indicator are:

comparable (subject to caveats) across jurisdictions and over time

complete (subject to caveats) for the current reporting period. All required 2018-19 data are available for all jurisdictions.

Preparedness — Households with a smoke alarm

'Households with a smoke alarm' is an indicator of governments' objective to contribute to the community's management of risks and its preparedness (box 9.6).

Box 9.6 Households with a smoke alarm

'Households with a smoke alarm' is defined by two measures:

- the number of households with a smoke alarm installed, divided by the total number of households
- the number of households with a smoke alarm/detector that is operational/has been tested (manually in the last 12 months), divided by the total number of households.

A high or increasing proportion of households with a smoke alarm that is installed and operational indicates greater community preparedness.

Data reported for this measure are:

not comparable across jurisdictions, but are comparable (subject to caveats) within jurisdictions over time

incomplete for the current reporting period. All required 2018-19 data are not available for NSW, SA, Tasmania, the ACT and the NT for the first measure, and for all jurisdictions except Queensland and WA for the second measure.

Sustainability — Firefighter workforce

'Firefighter workforce' is an indicator of governments' objective to provide emergency services that are sustainable (box 9.7).

Box 9.7 Firefighter workforce

'Firefighter workforce' is defined by two measures:

'workforce by age group' – the age profile of the workforce, measured by the proportion of the operational workforce (excludes support workforce) in 10 year age groups (under 30, 30–39, 40–49, 50–59 and 60 and over).

A low or decreasing proportion of the workforce who are in the younger age groups and/or a high or increasing proportion who are closer to retirement, suggests sustainability problems may arise in the coming decade as the older age group starts to retire.

 'workforce attrition' – the level of attrition in the operational workforce, calculated as the number of firefighting employees (headcount) who exit the organisation as a proportion of the total number of firefighting employees.

Low or decreasing levels of staff attrition are desirable.

Data reported for these measures are:

comparable (subject to caveats) across jurisdictions and over time

complete (subject to caveats) for the current reporting period. All required 2018-19 data are available for all jurisdictions.

Efficiency

Expenditure per person

'Expenditure per person' is a proxy indicator of governments' objective of providing emergency services in an efficient manner (box 9.8).

Box 9.8 Expenditure per person

'Expenditure per person' is defined as total fire service organisation expenditure per person in the population.

All else being equal, lower expenditure per person suggests greater efficiency. However, efficiency data should be interpreted with caution. High or increasing expenditure per person may reflect deteriorating efficiency. Alternatively, it may reflect changes in aspects of the service (such as improved response), increased resourcing for fire prevention or community preparedness, or the characteristics of fire events (such as more challenging fires). Low or declining expenditure per person may reflect improving efficiency. Alternatively, it may reflect lower quality responses or less challenging fires.

Expenditure per fire is not used as a measure of efficiency because an organisation that works to reduce the number of fire incidents could erroneously appear to be less efficient.

The role of volunteers needs to be considered when interpreting this indicator. Volunteer personnel provide a substantial proportion of fire services (and emergency services more generally). While costs such as the training and equipment associated with volunteers are included in the cost of fire service provision, the labour costs of providing fire services would be greater without volunteers (assuming these functions were still performed).

Data reported for this measure are:

not comparable across jurisdictions, but are comparable (subject to caveats) within jurisdictions over time

complete (subject to caveats) for the current reporting period. All required 2018-19 data are available for all jurisdictions.

Time series data for real recurrent expenditure and capital costs (including associated costs for the user cost of capital) for each jurisdiction are reported in table 6A.1. Information on treatment of assets by emergency management agencies is presented in table 9.5 in section 9.3.

Outcomes

Outcomes are the impact of services on the status of an individual or group (while outputs are the services delivered) (section 1).

Fire death rate

'Fire death rate' is an indicator of governments' objective to reduce the adverse effects of emergency events on the community (including people, property, infrastructure, economy and environment) (box 9.9).

Box 9.9 Fire death rate

'Fire death rate' is defined by two measures:

- 'annual fire death rate' all deaths, per million people, whose underlying cause of death is fire related to smoke, fire and flames, and including all (structure and landscape) fires
- 'landscape fire death rate' deaths resulting from landscape fires only, per million people. Landscape fire deaths include those that result from the fire, but whose primary cause may be related to other factors (except for self-harm deaths).

Annual fire death rates can be particularly volatile because of the small number of fire deaths and the influence of large irregular fire events.

No deaths or a decreasing rate of fire deaths 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 2018 data are available for all jurisdictions.

Fire injury rate

'Fire injury rate' is an indicator of governments' objective to reduce the adverse effects of events on the community (including people, property, infrastructure, economy and environment) (box 9.10).

Box 9.10 Fire injury rate

'Fire injury rate' is defined as the number of hospitalised fire injury cases per 100 000 people.

No fire injuries or a decreasing number and rate of fire injuries is desirable.

Estimates of fire injury cases are based on hospital separations data in the National Hospital Morbidity Database. Data exclude admitted patients transferred from another hospital, patients who died in hospital and patients admitted for rehabilitation. Data are reported by state of usual residence of the admitted patient. Deaths from fire injuries after hospitalisation are counted in the fire death rate data.

Data for this measure are:

comparable (subject to caveats) across jurisdictions and over time

complete (subject to caveats) for the current reporting period. All required 2017-18 data are available for all jurisdictions.

Value of asset losses from fire events

'Value of asset losses from fire events' is an indicator of governments' objective to reduce the adverse effects of events on the community (including people, property, infrastructure, economy and environment) (box 9.11).

Box 9.11 Value of asset losses from fire events

'Value of asset losses from fire events' is defined as the estimated monetary value of the damage to domestic property and contents caused by the fire and firefighting operations based on insurance claims. It does not include land value. The value of insurance claims from fire events is the sum of the incurred claims on insurance companies related to fires and explosions reported to Insurance Statistics Australia (ISA).

Data are presented as: average domestic insurance claims from fire events; total domestic insurance claims from fire events per person in the population; and total commercial insurance claims from fire events per person in the population.

The value of domestic insurance claims from fire events reflects efforts to reduce the likelihood, effect and consequences of emergencies on communities. Lower or decreasing asset losses from fire events is desirable.

Data need to be interpreted with caution as insurance claims may not reflect actual asset losses due to:

- under insurance insurance payouts are limited by the estimated value of assets a policy holder provides when taking out insurance
- new for old new for old policies replace an old asset for a new equivalent
- excess policy small fire incidents are not recorded where no insurance claim is made by the policy holders (due to requirement for policy holders to pay excess).

Data reported for this measure are:

comparable (subject to caveats) across jurisdictions and over time

complete (subject to caveats) for the current reporting period. All required 2018-19 data are available for all jurisdictions, noting ISA estimate that their data cover approximately 69 and 60 per cent of the potential domestic and commercial insurance markets respectively.

9.3	Treatment	of assets	by fire	service	organisations
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	NSW	Vic	Qld	WA	SA	Tas	ACT	NT
Depreciation method								
Depreciable assets	Straight-line	Straight-line	Straight-line	Straight-line	Straight-line	Straight-line	Straight-line	Straight-line
Revaluation method								
• Land	Fair or market value	Deprival or market value	Fair or market value	Combination of Market value and current use (Depreciated replacement cost)	Market value	Fair value or historical cost	Market value	na
Buildings	RFS: Fair or market value; FRNSW: Depreciated Replacement Cost for fire stations	Deprival or market value	Fair or market value	Combination of Market value and current use (Depreciated replacement cost)	Market value	Fair value or historical cost	Market value	na
• Other assets	RFS: Fair or market value; FRNSW: fire appliances: Depreciated Replacement Cost; Other P & E: Depreciated historical cost.	Deprival or market value	Fair or market value	na	Market value	na	na	na

	NSW ^b	Vic	Qla	WA	SA	Tas	АСТ ^С	NT
Frequency of revaluations (years)								
• Land, buildings	3	1-5	1-5	Annually	6	5	3	na
Other assets	5	1-5	Annually	Historical cost	6	na	na	na
Useful asset lives (years) ^d								
Buildings	40	12-66	15-80	40	40-50	33-100	30-40	40
 Specialist equipment 	RFS: 10; FRNSW: 15- 30	2-50	3-20	10-15	10-20	5-25	10	5-10
IT equipment	3-5	3-5	3-5	3	5	5-10	4	na
Other vehicles	RFS: 3-5; FRNSW: 2-15	2-20	2-10	5-20	15-20	5-10	7-15	5-15
Office equipment ^e	RFS: 5-10; FRNSW: 5-20	2-20	3-10	10-15	10	3-10	7	na
• Other equipment ^{f}	_	3-20	3-10	5-15	10	3-10 years	10	na
Threshold capitalisation levels (\$)								
Buildings	RFS: 10,000; FRNSW 3,000	All	10 000	5 000	10 000	10 000	5 000	na

^a Market value is the current (net) value market selling price or exchange value; deprival value may be either the depreciated replacement cost of an asset of a similar service potential or the stream of its future economic benefits.^b The assets used by the NSW Rural Fire Service are largely vested in Local Government. Accordingly, although issues such a asset depreciation and useful lives may be guided by Service policies, Local Government policies will prevail in other areas. ^c Treatment includes all four response agencies: the ACT Fire and Rescue, the ACT Rural Fire Service, the ACT State Emergency Service and the ACT Ambulance Service. Assets have been manually apportioned. Apportionment process varies from previous years. d Estimated as 1/depreciation rate. Asset lives for some assets have been grouped with other classifications. e For some jurisdictions, office equipment includes furniture and fittings. ^f For some jurisdictions, other equipment includes information technology. na Not available.

Table 9.5	i reatment of assets by emergend	cy manager	nent agenc	les ^a (continue	ed)			
	NSW	Vic	Qld	WA	SA	Tas	ACT	NT
Threshold capita	lisation levels (\$)							
• IT equipment	RFS: 10,000; FRNSW 3,000	1 000	5 000	5 000	10 000	10 000	5 000	na
Other assets	RFS: 10,000; FRNSW 3,000	1 000	5 000	5 000	10 000	10 000	5 000	na

Table 9.5 Treatment of assets by emergency management agencies^a (continued)

^a Market value is the current (net) value market selling price or exchange value; deprival value may be either the depreciated replacement cost of an asset of a similar service potential or the stream of its future economic benefits.^b The assets used by the NSW Rural Fire Service are largely vested in Local Government. Accordingly, although issues such a asset depreciation and useful lives may be guided by Service policies, Local Government policies will prevail in other areas. ^c Treatment includes all four response agencies: the ACT Fire and Rescue, the ACT Rural Fire Service, the ACT State Emergency Service and the ACT Ambulance Service. Assets have been manually apportioned. Apportionment process varies from previous years. ^d Estimated as 1/depreciation rate. Asset lives for some assets have been grouped with other classifications. ^e For some jurisdictions, office equipment includes furniture and fittings. ^f For some jurisdictions, other equipment includes information technology. **na** Not available.

9.4 Definitions of key terms

Expenditure	Includes:
	 salaries and payments in the nature of salaries to fire personnel
	 capital expenditure (such as the user cost of capital)
	 other operating expenditure (such as running expenditure, contract expenditure, training expenditure, maintenance expenditure, communications expenditure, provision for losses and other recurrent expenditure). Excludes interest on borrowings.
User cost of capital	The opportunity cost of funds tied up in the capital used to deliver services. Calculated as 8 per cent of the current value of non-current physical assets (including land, plant and equipment).
Human resources	 Human resources refers to any person delivering a service, or managing the delivery of this service, including: firefighters (qualified paid and volunteer firefighters) support personnel (any paid person or volunteer directly supporting operational providers, including administrative, technical and communications personnel).
Revenue	Revenue received directly or indirectly by fire service organisations on an accrual accounting basis, including:
Government grant funding	Grant funding, as established in legislation, from the Australian, State/Territory and Local governments.
Levies	Revenue from levies, as established in enabling legislation, raised on insurance companies and property owners.
User/transport charges	Revenue from fees and charges on individuals, private/public organisations and insurers.
Subscriptions and other income	Other revenue, including: subscriptions and benefit funds received from the community donations, industry contributions and fundraising received other income.
Indirect revenue	All revenue or funding received indirectly by the agency (for example, directly to Treasury or other such entity) that arises from the agency's actions.
Preparedness	Actions/programmes designed to strengthen the overall capacity and capability of a community to manage disasters; and procedures planned for during a non-disaster response period to be actioned during a disaster response period to minimise the loss of life, injury and damage to property when a disaster occurs.
Response	Actions taken in anticipation of, during and/or immediately after a disaster to ensure that its effects are minimised and that affected people are provided with immediate care, relief and support.
Volunteer firefighters	All personnel engaged on an unpaid casual basis by the emergency service organisation who deliver or manage a firefighting service directly to the community and who are formally trained and qualified to undertake firefighting duties, but do not receive remuneration other than reimbursement of 'out of pocket expenses'.
Volunteer support staff	All personnel engaged on an unpaid casual basis that are not remunerated and are principally involved in the provision of support services. For fire service organisations, this includes any staff whose immediate client is the firefighter. These can be people in operational support roles provided they do not receive payment for their services other than reimbursement of 'out of pocket expenses'.