



COMMUNITY PREPAREDNESS FOR EMERGENCIES

**WESTERN
AUSTRALIA**

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I N Q U I R I E S

For further information about these and related statistics, contact the National Information and Referral Service on 1300 135 070 or Fiona Manson on (08) 9360 5213.

NOTES

ABOUT THIS PUBLICATION This publication presents statistics from the State Supplementary Survey, *Community Preparedness for Emergencies, Western Australia, 2011*. The survey collected information from Western Australian households about their experience of emergencies, emergency evacuation and existing preparations for future emergencies.

ABOUT THE SURVEY State Supplementary Surveys are ad hoc surveys, which aim to provide state and territory government agencies with an opportunity to gain detailed information about specific aspects of the region's economic or social life. This information can assist in the formulation of policy strategies.

This survey was conducted as a supplement to the ABS *Labour Force Survey (LFS)* in October 2011. Data items were collected from Any Responsible Adult (ARA), on behalf of the household. A list of data items collected is available in the Appendix.

SAMPLE ERRORS Estimates, including Relative Standard Errors (RSEs), are available in spreadsheet format (data cubes) on the ABS website <www.abs.gov.au>. See the Downloads page of this release (cat. no. 4818.5).

DATA QUALITY When interpreting the results in this release, it is important to take into account factors that may affect the reliability of estimates. These factors are described in the Technical Note.

Users are advised to exercise caution if comparing estimates over different iterations of this State Supplementary Survey topic. Factors impacting on the comparability of estimates over time are detailed in Explanatory Notes 9 to 11.

ACKNOWLEDGMENT ABS publications draw extensively on information provided freely by individuals, businesses, governments and other organisations. Their continued cooperation is very much appreciated. Without it, the wide range of statistics published by the ABS would not be available. Information received by the ABS is treated in strict confidence as required by the *Census and Statistics Act, 1905*.



ABBREVIATIONS

- '000 thousand
- ABS Australian Bureau of Statistics
- ARA any responsible adult
- ASGC Australian Standard Geographical Classification
- LFS Labour Force Survey
- MSR major statistical region
- RSE relative standard error
- SE standard error
- SR statistical region
- WA Western Australia

Jacky Hodges
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SUMMARY OF FINDINGS

INTRODUCTION

Preparedness activities help to build community resilience to disasters because they build the capacity of the community to withstand, recover from and respond positively to an emergency or crisis (*Community Engagement Framework, 2011*, Fire and Emergency Services Authority, Government of Western Australia).

This survey collected information on the types of assistance required by households to evacuate in an emergency and indicators of household preparedness for an emergency. This survey also provides insights into household experiences with major emergencies.

Approximately 75% (665,900) of the estimated 883,100 households in WA are located in the Perth Major Statistical Region (MSR; Table 2), an area that is equivalent to the Perth metropolitan area. Approximately 217,200 households are located in the Balance of WA MSR, outside of the Perth MSR.

Within the Perth MSR, approximately one third of households (33.4%; based on Table 1) are located in the Northern Metropolitan Statistical Region (SR), and approximately one fifth of households are located in each of the South West and South East Metropolitan SRs (21.7% and 20.6% respectively). The Eastern Metropolitan SR (15.9%) and the Central Metropolitan SR (8.4%) contain the smallest proportion of households in the Perth MSR.

Within the Balance of WA MSR, the Lower Western WA SR contains approximately two thirds of households (67.1%), while the Remainder-Balance of WA SR contains approximately one third of households (32.9%), based on Table 2.

EMERGENCY EVACUATION

The level of success in the management of major emergencies is dependent on a number of important factors, including the characteristics of affected households. Some households have specific needs such as assistance to exit a dwelling, transport to a safe area, access to alternative accommodation, or have pets that need to be evacuated.

Other factors that may impact on emergency management include household members providing unpaid care to a non-household member, households with members who do not speak or understand English, and households who are unwilling to evacuate.

Requiring assistance to evacuate

Evacuation of households during an emergency can require the assistance of emergency services, such as Police or the State Emergency Services (SES).

Across WA, 20.9% of households indicated they would require assistance to exit a dwelling (Table 2), while one quarter (25.0%) of households indicated they would require transport assistance to a safe area.

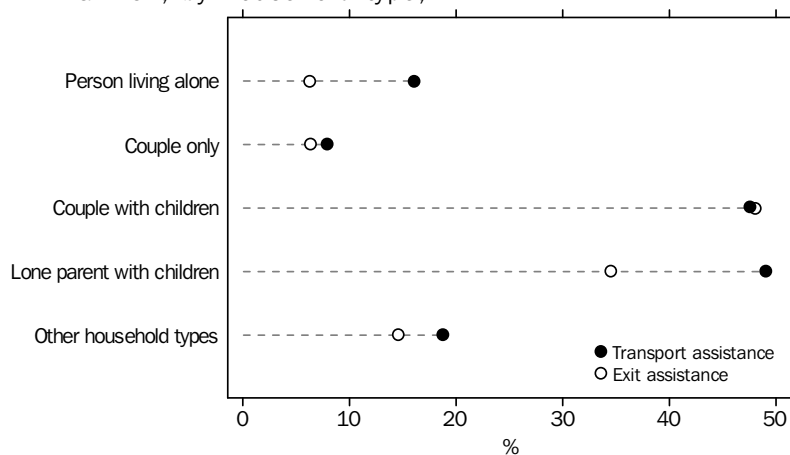
For both of these evacuation indicators, households with children represented the highest proportion of households indicating they would require assistance in an emergency (Table 5). Just under half (48.1%) of couple with children households and approximately one third (34.5%) of lone parent with children households indicated they would require assistance to exit a dwelling. Similarly, just under half of couple with children (47.6%) and lone parent (49.1%) households indicated they would require assistance with transport to a safe area.

SUMMARY OF FINDINGS *continued*

Requiring assistance to evacuate *continued*

In comparison, the proportion of households without children indicating they would require assistance to exit a dwelling was lower than for households with children (14.6% of other household types, 6.4% of couple only households and 6.3% of persons living alone). Similarly, the proportion of households without children who indicated they would require transport assistance was lower than for households with children (18.8% of other household types, 16.1% of persons living alone and 7.9% of couple only households).

HOUSEHOLDS REQUIRING ASSISTANCE TO EVACUATE IN AN EMERGENCY, by Household type, WA



Non-English speaking households

Households with at least one member who doesn't speak or understand English may require specialist assistance during an emergency evacuation. Across WA, a small proportion of households (Table 2) indicated they have at least one member who is unable to speak English (3.0%), unable to understand English (2.7%), or is unable to understand emergency instructions in English (1.0%).

Access to alternative accommodation

Households with access to alternative accommodation potentially reduce the demand on emergency accommodation, such as evacuation centres. Most households in WA (90.9%; Table 2) reported access to alternative accommodation. The proportions of households in Perth MSR (91.0%) and the balance of WA MSR (90.4%) who reported having access to alternative accommodation, were similar.

PREPAREDNESS FOR EMERGENCIES

When an emergency occurs, preparedness helps to ensure that households and communities are able to respond to, and cope with, its effects. Indicators of preparedness include plans for exiting a dwelling, identification of an agreed meeting place, adequate stores of food and water, access to the latest information, as well as the ability to communicate throughout the emergency. Insurance cover is another indicator of preparedness, as it assists households with the financial burden of replacing or repairing property that may be damaged or lost in an emergency.

Exit plan from dwelling

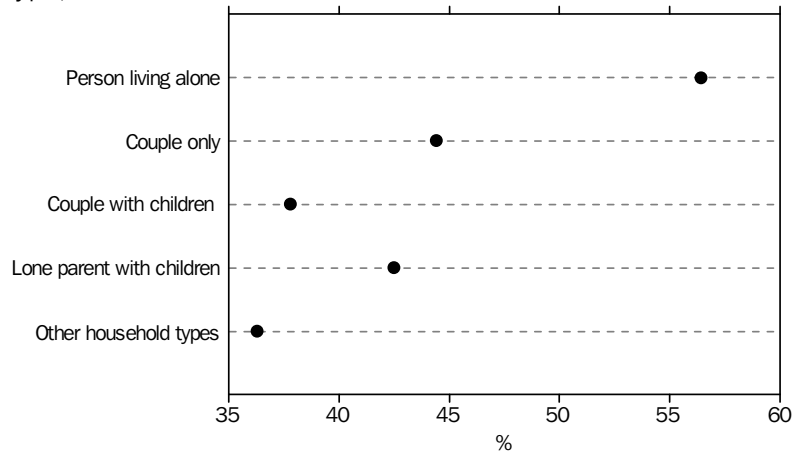
Householders were asked whether they have a plan to exit their dwelling, should an emergency evacuation occur. In terms of household type (Table 11), the highest proportion of households who reported having an exit plan were persons living alone (56.4%). In contrast, the lowest proportion of households who reported having an exit

SUMMARY OF FINDINGS *continued*

Exit plan from dwelling continued

plan was for other household types (36.3%) and couple with children households (37.8%).

HOUSEHOLDS WITH AN EXIT PLAN FROM DWELLING, by Household type, WA



Communication

LANDLINE TELEPHONE

Almost one quarter (22.9%) of WA households indicated they do not have a landline telephone (Table 9). There was little difference in the proportion of households who indicated they do not have a landline telephone in the Perth MSR (22.7%) and the Balance of WA MSR (23.6%).

Across household types (Table 11), the highest proportion of households who indicated they do not have a landline telephone was lone parent with children households (43.9%). Couple households with (16.5%) and without (15.6%) children, had the lowest proportion of households who indicated they do not have a landline telephone.

INTERNET ACCESS

More than three quarters (82.9%) of households in WA reported having internet access, as shown in Table 9. The proportion of households in Perth MSR (84.2%) who reported having internet access was higher than the for the Balance of WA MSR (78.9%).

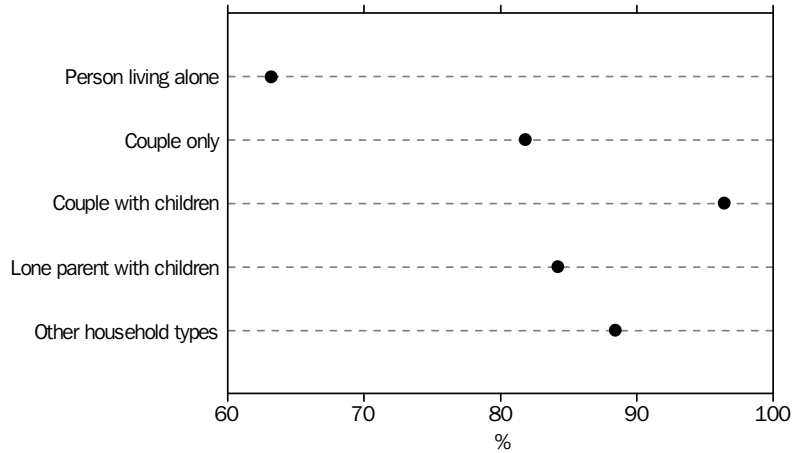
Across household types (Table 11), couples with children (96.4%) had the highest proportion of households who reported internet access. In comparison, persons living alone (63.2%) had the lowest proportion of households who reported internet access, as shown in the graph below.

SUMMARY OF FINDINGS *continued*

Communication continued

INTERNET ACCESS *continued*

HOUSEHOLDS WITH INTERNET ACCESS, by Household type, WA



Insurance cover

Most households living in dwellings that are fully owned or being purchased reported to have comprehensive (i.e. building and contents) insurance cover (92.4%; Table 14). For households who are renting, or other tenure types, the proportion of households who reported contents insurance cover (47.6%) was similar to those who reported no contents insurance cover (47.7%).

Sources of information during an emergency

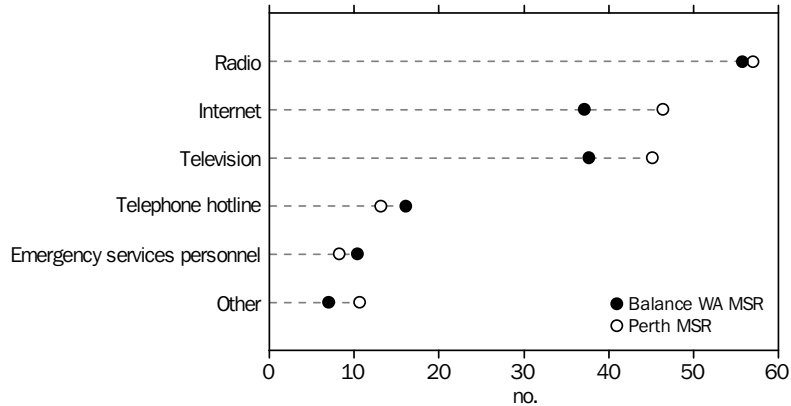
In an emergency, more WA households indicated they would seek emergency information from the radio (56.7%; Table 16), internet (44.1%) or television (43.3%), than other sources such as a telephone hotline (13.9%), emergency services personnel (8.8%), or police contacts (6.4%). Note that households were able to provide multiple responses to this question.

The proportion of households who indicated they would seek emergency information from the radio (Table 16) was similar for Perth MSR (57.0%) and Balance of WA MSR (55.7%). However, the proportion of households who indicated they would seek emergency information from the internet and the television was higher for Perth MSR (46.4% and 45.1% respectively) than for Balance of WA MSR (37.1% and 37.6% respectively), as shown in the graph below.

SUMMARY OF FINDINGS *continued*

Sources of information during an emergency *continued*

SELECTED SOURCES OF EMERGENCY INFORMATION, by Major Statistical Region, WA (a)



(a) Households were able to provide multiple responses to this question.

EXPERIENCED ANY MAJOR EMERGENCIES

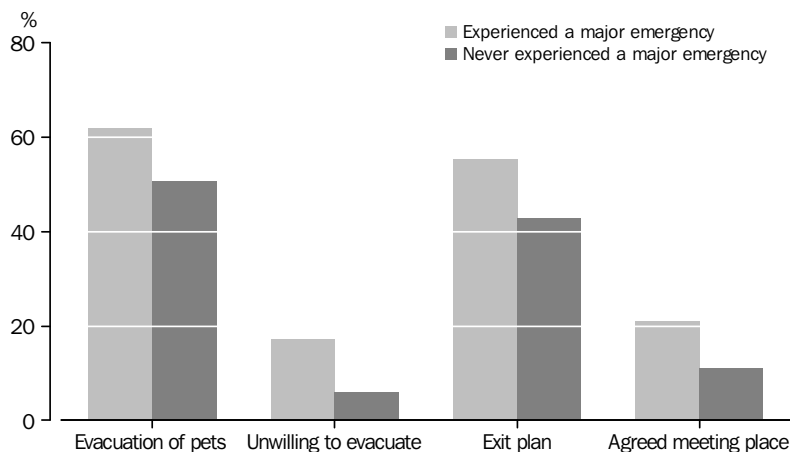
In WA, 7.5% (66,000) of households reported having experienced a major emergency. The proportion of households in the Balance of WA MSR who reported experience of major emergencies (11.5%) is almost twice the proportion of households in the Perth MSR who reported experience of major emergencies (6.2%), as shown in Table 2.

In an emergency where evacuation was required (Table 3) households who indicated they had experienced a major emergency also reported a higher proportion of households with pets needing evacuation (61.9%) than households who reported no experience of a major emergency (50.7%).

Similarly, households who indicated they had experienced a major emergency also reported a higher proportion of households who were unwilling to evacuate (17.2%), compared to those who had not reported experience of a major emergency (6.0%; Table 3).

In terms of preparedness indicators (Table 10), the proportion of households who reported having experience of a major emergency, who also reported having an exit plan (55.4%) or an agreed meeting place (21.0%), is higher than for households who indicated they have not experienced a major emergency (42.9% and 11.2% respectively).

SELECTED INDICATORS OF COMMUNITY PREPAREDNESS, by Experience in major emergencies, WA



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STATISTICAL REGION

	Central Metropolitan	Eastern Metropolitan	Northern Metropolitan	South West Metropolitan	South East Metropolitan	Perth MSR
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HOUSEHOLDS ('000)

Experienced any major emergencies	*3.5	*13.7	*5.9	*9.7	8.2	41.1
Require assistance to exit dwelling	10.9	20.0	47.8	31.9	26.0	136.5
Require transport assistance	15.2	24.2	62.0	38.0	29.8	169.2
Have access to alternate accommodation	51.9	94.7	203.5	134.8	121.4	606.3
Pets needing evacuation	19.7	59.3	109.9	74.5	65.7	329.1
Provide unpaid care to non-household member	*4.8	*2.5	15.9	9.6	*5.1	37.9
Unable to understand English	np	*3.1	6.8	np	*8.5	22.1
Unable to speak English	**1.4	*3.9	6.7	*3.3	9.2	24.5
Unable to understand emergency instructions in English	np	**1.4	*3.0	np	*3.7	np
Not willing to evacuate	*2.2	*8.1	8.7	11.1	10.6	40.8
Total households	56.1	105.8	222.3	144.3	137.4	665.9

PROPORTION (%)

Experienced any major emergencies	*6.3	*12.9	*2.7	*6.7	6.0	6.2
Require assistance to exit dwelling	19.5	18.9	21.5	22.1	18.9	20.5
Require transport assistance	27.1	22.8	27.9	26.3	21.7	25.4
Have access to alternate accommodation	92.5	89.5	91.6	93.4	88.3	91.0
Pets needing evacuation	35.2	56.0	49.4	51.6	47.8	49.4
Provide unpaid care to non-household member	8.6	*2.4	7.2	6.6	*3.7	5.7
Unable to understand English	np	*2.9	3.1	np	6.2	3.3
Unable to speak English	**2.5	*3.6	3.0	*2.3	6.7	3.7
Unable to understand emergency instructions in English	np	**1.3	*1.3	np	*2.7	np
Not willing to evacuate	*4.0	*7.7	3.9	7.7	7.7	6.1
Total households	100.0	100.0	100.0	100.0	100.0	100.0

* estimate has a relative standard error of 25% to 50% and should be used with caution

** estimate has a relative standard error greater than 50% and is considered too unreliable for general use

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) For details regarding Comparability of estimates over time, see Explanatory Notes 9 to 11.

(b) Based on the 2010 edition of ASGC. See Explanatory Note 8 for details.

STATISTICAL REGION

	<i>Lower Western WA</i>	<i>Remainder-Balance of WA</i>	<i>Balance of WA MSR</i>	<i>Perth MSR</i>	<i>WA</i>
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HOUSEHOLDS ('000)

Experienced any major emergencies	*6.9	*18.0	25.0	41.1	66.0
Require assistance to exit dwelling	33.3	*15.1	48.4	136.5	185.0
Require transport assistance	36.2	15.1	51.2	169.2	220.4
Have access to alternate accommodation	134.4	61.9	196.3	606.3	802.6
Pets needing evacuation	85.7	40.7	126.4	329.1	455.5
Provide unpaid care to non-household member	*6.1	*3.8	9.9	37.9	47.8
Unable to understand English	np	np	*2.0	22.1	24.1
Unable to speak English	np	np	*2.0	24.5	26.5
Unable to understand emergency instructions in English	—	np	np	np	9.0
Not willing to evacuate	15.1	*4.5	19.6	40.8	60.4
Total households	145.8	71.5	217.2	665.9	883.1

PROPORTION (%)

Experienced any major emergencies	*4.7	25.2	11.5	6.2	7.5
Require assistance to exit dwelling	22.9	21.1	22.3	20.5	20.9
Require transport assistance	24.8	21.1	23.6	25.4	25.0
Have access to alternate accommodation	92.2	86.6	90.4	91.0	90.9
Pets needing evacuation	58.8	56.9	58.2	49.4	51.6
Provide unpaid care to non-household member	*4.2	*5.3	4.5	5.7	5.4
Unable to understand English	np	np	*0.9	3.3	2.7
Unable to speak English	np	np	*0.9	3.7	3.0
Unable to understand emergency instructions in English	—	np	np	np	1.0
Not willing to evacuate	10.3	*6.4	9.0	6.1	6.8
Total households	100.0	100.0	100.0	100.0	100.0

* estimate has a relative standard error of 25% to 50% and should be used with caution

— nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) For details regarding Comparability of estimates over time, see Explanatory Notes 9 to 11.

(b) Based on the 2010 edition of ASGC. See Explanatory Note 8 for details.

EVACUATION AND SELECTED HOUSEHOLD CHARACTERISTICS(a), by experience in major emergencies—WA

	<i>Experienced a major emergency</i>	<i>Never experienced a major emergency(b)</i>	<i>Total</i>
HOUSEHOLDS ('000)			
Require assistance to exit dwelling	12.5	172.4	185.0
Require transport assistance	15.9	204.5	220.4
Have access to alternate accommodation	61.0	741.6	802.6
Pets needing evacuation	40.9	414.6	455.5
Provide unpaid care to non-household member	3.8	44.0	47.8
Unable to understand English	np	np	24.1
Unable to speak English	np	np	26.5
Unable to understand emergency instructions in English	np	np	9.0
Not willing to evacuate	*11.3	49.0	60.4
Total households	66.0	817.1	883.1
PROPORTION (%)			
Require assistance to exit dwelling	19.0	21.1	20.9
Require transport assistance	24.1	25.0	25.0
Have access to alternate accommodation	92.3	90.8	90.9
Pets needing evacuation	61.9	50.7	51.6
Provide unpaid care to non-household member	*5.7	5.4	5.4
Unable to understand English	np	np	2.7
Unable to speak English	np	np	3.0
Unable to understand emergency instructions in English	np	np	1.0
Not willing to evacuate	17.2	6.0	6.8
Total households	100.0	100.0	100.0

* estimate has a relative standard error of 25% to 50% and should be used with caution

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) For details regarding Comparability of estimates over time, see Explanatory Notes 9 to 11.

(b) Includes households who responded Don't know.

	<i>Has exit plan</i>	<i>Does not have exit plan</i>	<i>Total</i>
.....			
HOUSEHOLDS ('000)			
Experienced any major emergencies	36.6	29.5	66.0
Require assistance to exit dwelling	70.9	114.0	185.0
Require transport assistance	82.9	137.5	220.4
Have access to alternate accommodation	355.2	447.4	802.6
Pets needing evacuation	196.1	259.4	455.5
Provide unpaid care to non-household member	22.7	25.1	47.8
Unable to understand English	7.1	17.0	24.1
Unable to speak English	8.5	18.0	26.5
Unable to understand emergency instructions in English	*2.4	6.7	9.0
Not willing to evacuate	26.8	33.6	60.4
Total households	386.8	496.3	883.1
.....			
PROPORTION (%)			
Experienced any major emergencies	9.5	5.9	7.5
Require assistance to exit dwelling	18.3	23.0	20.9
Require transport assistance	21.4	27.7	25.0
Have access to alternate accommodation	91.8	90.1	90.9
Pets needing evacuation	50.7	52.3	51.6
Provide unpaid care to non-household member	5.9	5.1	5.4
Unable to understand English	1.8	3.4	2.7
Unable to speak English	2.2	3.6	3.0
Unable to understand emergency instructions in English	*0.6	1.3	1.0
Not willing to evacuate	6.9	6.8	6.8
Total households	100.0	100.0	100.0

* estimate has a relative standard error of 25% to 50% and should be used with caution

(a) For details regarding Comparability of estimates over time, see Explanatory Notes 9 to 11.

EVACUATION AND SELECTED HOUSEHOLD CHARACTERISTICS(a), by household type—WA

	<i>Person living alone</i>	<i>Couple only</i>	<i>Couple with children(b)</i>	<i>Lone parent with children(b)</i>	<i>Other household types(c)</i>	<i>Total</i>
HOUSEHOLDS ('000)						
Experienced any major emergencies	12.4	19.2	18.2	*3.7	12.5	66.0
Require assistance to exit dwelling	12.6	15.0	118.7	16.3	22.3	185.0
Require transport assistance	32.6	18.6	117.4	23.2	28.7	220.4
Have access to alternate accommodation	183.2	215.3	224.0	41.9	138.2	802.6
Pets needing evacuation	68.8	118.1	162.1	29.8	76.6	455.5
Provide unpaid care to non-household member	13.3	15.8	10.6	*1.3	*6.8	47.8
Unable to understand English	—	4.3	9.8	*1.8	8.2	24.1
Unable to speak English	—	5.2	10.2	*2.2	8.9	26.5
Unable to understand emergency instructions in English	—	**1.0	*4.3	**1.0	*2.8	9.0
Not willing to evacuate	20.6	15.5	12.8	**1.5	10.0	60.4
Total households	201.8	235.0	246.6	47.3	152.4	883.1
PROPORTION (%)						
Experienced any major emergencies	6.2	8.2	7.4	*7.9	8.2	7.5
Require assistance to exit dwelling	6.3	6.4	48.1	34.5	14.6	20.9
Require transport assistance	16.1	7.9	47.6	49.1	18.8	25.0
Have access to alternate accommodation	90.8	91.6	90.8	88.6	90.7	90.9
Pets needing evacuation	34.1	50.3	65.7	63.0	50.3	51.6
Provide unpaid care to non-household member	6.6	6.7	4.3	*2.7	*4.4	5.4
Unable to understand English	—	1.8	4.0	*3.8	5.4	2.7
Unable to speak English	—	2.2	4.2	*4.6	5.8	3.0
Unable to understand emergency instructions in English	—	**0.4	*1.7	**2.2	*1.8	1.0
Not willing to evacuate	10.2	6.6	5.2	**3.1	6.6	6.8
Total households	100.0	100.0	100.0	100.0	100.0	100.0

* estimate has a relative standard error of 25% to 50% and should be used with caution (a) For details regarding Comparability of estimates over time, see Explanatory Notes 9 to 11.

** estimate has a relative standard error greater than 50% and is considered too unreliable for general use (b) May include children under 15 years, dependent students and non-dependent children.

— nil or rounded to zero (including null cells) (c) The definition of Other household types is provided in the Glossary.

EVACUATION AND SELECTED HOUSEHOLD CHARACTERISTICS(a), by tenure type—WA

	Fully owned, or being purchased	Rented, or Other tenure types(b)	Total
HOUSEHOLDS ('000)			
Experienced any major emergencies	54.4	11.7	66.0
Require assistance to exit dwelling	125.3	59.7	185.0
Require transport assistance	145.1	75.3	220.4
Have access to alternate accommodation	576.7	225.9	802.6
Pets needing evacuation	351.1	104.4	455.5
Provide unpaid care to non-household member	40.2	7.6	47.8
Unable to understand English	12.7	11.4	24.1
Unable to speak English	15.1	11.5	26.5
Unable to understand emergency instructions in English	4.8	4.3	9.0
Not willing to evacuate	48.1	12.3	60.4
Total households	624.3	258.8	883.1
PROPORTION (%)			
Experienced any major emergencies	8.7	4.5	7.5
Require assistance to exit dwelling	20.1	23.1	20.9
Require transport assistance	23.2	29.1	25.0
Have access to alternate accommodation	92.4	87.3	90.9
Pets needing evacuation	56.2	40.3	51.6
Provide unpaid care to non-household member	6.4	2.9	5.4
Unable to understand English	2.0	4.4	2.7
Unable to speak English	2.4	4.4	3.0
Unable to understand emergency instructions in English	0.8	1.6	1.0
Not willing to evacuate	7.7	4.7	6.8
Total households	100.0	100.0	100.0

(a) For details regarding Comparability of estimates over time, see Explanatory Notes 9 to 11.

(b) The definition of Other tenure types is provided in the Glossary.

EVACUATION AND SELECTED HOUSEHOLD CHARACTERISTICS (a), by dwelling type—WA

	Separate house	Semi-detached, row or terrace house, townhouse, etc.	Flat, unit, apartment, or Other dwelling(b)	Total
HOUSEHOLDS ('000)				
Experienced any major emergencies	62.1	np	np	66.0
Require assistance to exit dwelling	160.5	13.9	10.6	185.0
Require transport assistance	180.7	22.2	17.5	220.4
Have access to alternate accommodation	669.7	70.5	62.3	802.6
Pets needing evacuation	422.8	21.4	11.2	455.5
Provide unpaid care to non-household member	42.7	*3.8	*1.3	47.8
Unable to understand English	19.3	*2.5	*2.3	24.1
Unable to speak English	21.4	*2.5	*2.7	26.5
Unable to understand emergency instructions in English	7.3	np	np	9.0
Not willing to evacuate	54.0	*3.3	*3.1	60.4
Total households	731.4	80.2	71.6	883.1

	PROPORTION (%)			
Experienced any major emergencies	8.5	np	np	7.5
Require assistance to exit dwelling	21.9	17.3	14.8	20.9
Require transport assistance	24.7	27.7	24.5	25.0
Have access to alternate accommodation	91.6	88.0	87.1	90.9
Pets needing evacuation	57.8	26.7	15.7	51.6
Provide unpaid care to non-household member	5.8	*4.7	*1.8	5.4
Unable to understand English	2.6	*3.1	*3.3	2.7
Unable to speak English	2.9	*3.1	*3.8	3.0
Unable to understand emergency instructions in English	1.0	np	np	1.0
Not willing to evacuate	7.4	*4.1	*4.3	6.8
Total households	100.0	100.0	100.0	100.0

* estimate has a relative standard error of 25% to 50% and should be used with caution

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) For details regarding Comparability of estimates over time, see Explanatory Notes 9 to 11.

(b) The definition of Other dwelling is provided in the Glossary.

STATISTICAL REGION

Central Metropolitan Eastern Metropolitan Northern Metropolitan South West Metropolitan South East Metropolitan Perth MSR

HOUSEHOLDS ('000)

Exit plan from dwelling	23.3	44.4	93.6	63.0	62.5	286.8
Agreed meeting place	7.1	15.1	21.3	15.5	14.0	73.1
Available stored drinking water						
Does not have stored drinking water	21.8	38.3	65.3	48.9	48.3	222.6
Less than 1 litre	*2.6	*4.4	7.0	*1.6	*3.8	19.4
1 to less than 5 litres	16.9	25.7	80.7	44.8	46.1	214.1
5 to less than 10 litres	*8.9	14.8	31.7	21.0	14.6	91.0
10 to less than 20 litres	*3.2	7.3	15.6	8.2	9.8	44.2
20 litres or more	*2.0	*15.3	21.0	19.0	13.1	70.3
Food that does not require cooking or refrigeration						
Does not have food of this type	6.4	7.6	19.6	10.7	13.5	57.9
1 to 3 days of food	29.3	44.0	89.3	56.9	51.7	271.2
4 to 6 days of food	15.6	26.6	54.4	34.0	31.7	162.4
7 to 14 days of food	*3.8	21.7	46.0	31.7	31.8	135.0
More than 14 days of food	**0.9	5.9	np	np	*7.3	35.1
Portable radio with working batteries						
Does not have portable radio with working batteries	np	np	120.4	64.6	57.5	331.7
Has portable radio with working batteries	24.0	47.0	99.8	77.8	78.5	327.2
Landline telephone						
Does not have landline telephone connection	12.9	16.9	56.6	32.8	31.7	151.0
Cordless handset	21.5	47.4	90.1	60.0	45.1	264.1
Fixed handset	7.5	13.0	20.4	np	np	np
Both cordless and fixed handsets	14.3	28.5	55.1	35.4	39.7	173.0
Internet access						
Does not have internet access	7.6	20.1	np	20.9	26.2	np
Has access to the internet	48.4	85.8	191.7	123.5	111.2	560.6
First aid qualification						
Qualification not obtained or renewed in last three years	8.4	18.1	39.0	24.7	17.6	107.9
Qualification obtained or renewed in last three years	21.2	39.1	84.2	59.6	48.3	252.5
List of medications kept for long term condition(d)	8.7	25.5	46.4	27.0	27.1	134.6
Keeps medication together(d)	22.2	48.2	100.0	61.3	53.0	284.6
Keeps important documents together	40.5	88.5	181.5	120.1	113.0	543.6
Torch ready for use						
Does not have torch for ready use	np	np	25.3	14.5	np	np
Has torch ready for use	48.0	95.7	195.7	128.1	124.0	591.4
Total households	56.1	105.8	222.3	144.3	137.4	665.9

* estimate has a relative standard error of 25% to 50% and should be used with caution

** estimate has a relative standard error greater than 50% and is considered too unreliable for general use

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) For details regarding Comparability of estimates over time, see Explanatory Notes 9 to 11.

(b) Based on the 2010 edition of ASGC. See Explanatory Note 8 for details.

(c) Cells containing a small number of households are not shown but are included in Total Households.

(d) Includes households with at least one member on medication for a long term medical condition.

STATISTICAL REGION

	Central Metropolitan	Eastern Metropolitan	Northern Metropolitan	South West Metropolitan	South East Metropolitan	Perth MSR
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PROPORTION (%)

Exit plan from dwelling	41.6	41.9	42.1	43.7	45.5	43.1
Agreed meeting place	12.7	14.3	9.6	10.8	10.2	11.0
Available stored drinking water						
Does not have stored drinking water	38.9	36.2	29.4	33.9	35.1	33.4
Less than 1 litre	*4.7	*4.1	3.1	*1.1	*2.8	2.9
1 to less than 5 litres	30.0	24.3	36.3	31.0	33.5	32.2
5 to less than 10 litres	15.9	14.0	14.2	14.5	10.6	13.7
10 to less than 20 litres	*5.7	6.9	7.0	5.7	7.2	6.6
20 litres or more	*3.5	14.4	9.4	13.2	9.6	10.6
Food that does not require cooking or refrigeration						
Does not have food of this type	11.5	7.2	8.8	7.4	9.8	8.7
1 to 3 days of food	52.2	41.6	40.2	39.4	37.7	40.7
4 to 6 days of food	27.8	25.1	24.5	23.6	23.1	24.4
7 to 14 days of food	*6.8	20.5	20.7	21.9	23.2	20.3
More than 14 days of food	**1.6	5.5	np	np	*5.3	5.3
Portable radio with working batteries						
Does not have portable radio with working batteries	np	np	54.2	44.8	41.8	49.8
Has portable radio with working batteries	42.9	44.4	44.9	53.9	57.2	49.1
Landline telephone						
Does not have landline telephone connection	23.0	16.0	25.5	22.8	23.1	22.7
Cordless handset	38.3	44.8	40.6	41.5	32.8	39.7
Fixed handset	13.3	12.3	9.2	np	np	np
Both cordless and fixed handsets	25.5	26.9	24.8	24.5	28.9	26.0
Internet access						
Does not have internet access	13.6	18.9	np	14.4	19.1	np
Has access to the internet	86.4	81.1	86.3	85.6	80.9	84.2
First aid qualification						
Qualification not obtained or renewed in last three years	15.0	17.1	17.6	17.1	12.8	16.2
Qualification obtained or renewed in last three years	37.9	37.0	37.9	41.3	35.1	37.9
List of medications kept for long term condition(d)	15.5	24.1	20.9	18.7	19.7	20.2
Keeps medication together(d)	39.5	45.5	45.0	42.5	38.6	42.7
Keeps important documents together	72.1	83.6	81.7	83.2	82.3	81.6
Torch ready for use						
Does not have torch for ready use	np	np	11.4	10.0	np	np
Has torch ready for use	85.5	90.4	88.0	88.8	90.2	88.8
Total households	100.0	100.0	100.0	100.0	100.0	100.0

* estimate has a relative standard error of 25% to 50% and should be used with caution

** estimate has a relative standard error greater than 50% and is considered too unreliable for general use

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) For details regarding Comparability of estimates over time, see Explanatory Notes 9 to 11.

(b) Based on the 2010 edition of ASGC. See Explanatory Note 8 for details.

(c) Cells containing a small number of households are not shown but are included in Total Households.

(d) Includes households with at least one member on medication for a long term medical condition.

STATISTICAL REGION

	Lower Western WA	Remainder-Balance of WA	Balance of WA MSR	Perth MSR	WA
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HOUSEHOLDS ('000)

Exit plan from dwelling	69.7	30.3	100.0	286.8	386.8
Agreed meeting place	21.1	*10.9	32.0	73.1	105.1
Available stored drinking water					
Does not have stored drinking water	52.4	*13.9	66.3	222.6	288.9
Less than 1 litre	np	np	**2.5	19.4	21.9
1 to less than 5 litres	32.8	*13.5	46.3	214.1	260.5
5 to less than 10 litres	14.1	*4.6	18.6	91.0	109.6
10 to less than 20 litres	*9.0	*7.6	16.6	44.2	60.8
20 litres or more	35.9	*29.7	65.6	70.3	135.9
Food that does not require cooking or refrigeration					
Does not have food of this type	np	np	11.6	57.9	69.5
1 to 3 days of food	44.0	*18.4	62.4	271.2	333.6
4 to 6 days of food	35.2	*20.3	55.5	162.4	217.9
7 to 14 days of food	46.9	19.4	66.4	135.0	201.4
More than 14 days of food	13.4	*5.7	19.1	35.1	54.2
Portable radio with working batteries					
Does not have portable radio with working batteries	77.2	35.3	112.5	331.7	444.3
Has portable radio with working batteries	np	np	103.7	327.2	430.9
Landline telephone					
Does not have landline telephone connection	36.4	14.9	51.4	151.0	202.3
Cordless handset	58.5	29.3	87.9	264.1	351.9
Fixed handset	16.0	*11.1	27.2	np	np
Both cordless and fixed handsets	34.7	*16.1	50.8	173.0	223.8
Internet access					
Does not have internet access	30.7	np	np	np	np
Has access to the internet	115.0	56.3	171.3	560.6	732.0
First aid qualification					
Qualification not obtained or renewed in last three years	np	np	33.4	107.9	141.3
Qualification obtained or renewed in last three years	60.9	29.5	90.4	252.5	342.9
List of medications kept for long term condition(d)	28.9	*15.8	44.6	134.6	179.3
Keeps medication together(d)	np	np	98.3	284.6	383.0
Keeps important documents together	122.0	54.6	176.6	543.6	720.3
Torch ready for use					
Does not have torch for ready use	np	np	np	np	86.9
Has torch ready for use	134.0	65.1	199.0	591.4	790.5
Total households	145.8	71.5	217.2	665.9	883.1

* estimate has a relative standard error of 25% to 50% and should be used with caution

** estimate has a relative standard error greater than 50% and is considered too unreliable for general use

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) For details regarding Comparability of estimates over time, see Explanatory Notes 9 to 11.

(b) Based on the 2010 edition of ASGC. See Explanatory Note 8 for details.

(c) Cells containing a small number of households are not shown but are included in Total Households.

(d) Includes households with at least one member on medication for a long term medical condition.

	STATISTICAL REGION				
	Lower Western WA	Remainder-Balance of WA	Balance of WA MSR	Perth MSR	WA
PROPORTION (%)					
Exit plan from dwelling	47.8	42.4	46.0	43.1	43.8
Agreed meeting place	14.4	*15.3	14.7	11.0	11.9
Available stored drinking water					
Does not have stored drinking water	35.9	19.5	30.5	33.4	32.7
Less than 1 litre	np	np	**1.2	2.9	2.5
1 to less than 5 litres	22.5	18.9	21.3	32.2	29.5
5 to less than 10 litres	9.6	*6.4	8.6	13.7	12.4
10 to less than 20 litres	6.1	10.7	7.6	6.6	6.9
20 litres or more	24.6	41.5	30.2	10.6	15.4
Food that does not require cooking or refrigeration					
Does not have food of this type	np	np	5.4	8.7	7.9
1 to 3 days of food	30.2	25.8	28.7	40.7	37.8
4 to 6 days of food	24.2	28.4	25.6	24.4	24.7
7 to 14 days of food	32.2	27.2	30.6	20.3	22.8
More than 14 days of food	9.2	*7.9	8.8	5.3	6.1
Portable radio with working batteries					
Does not have portable radio with working batteries	53.0	49.4	51.8	49.8	50.3
Has portable radio with working batteries	np	np	47.7	49.1	48.8
Landline telephone					
Does not have landline telephone connection	25.0	20.9	23.6	22.7	22.9
Cordless handset	40.2	41.0	40.5	39.7	39.9
Fixed handset	11.0	15.6	12.5	np	np
Both cordless and fixed handsets	23.8	22.5	23.4	26.0	25.3
Internet access					
Does not have internet access	21.1	np	np	np	np
Has access to the internet	78.9	78.8	78.9	84.2	82.9
First aid qualification					
Qualification not obtained or renewed in last three years	np	np	15.4	16.2	16.0
Qualification obtained or renewed in last three years	41.8	41.3	41.6	37.9	38.8
List of medications kept for long term condition(d)	19.8	22.0	20.6	20.2	20.3
Keeps medication together(d)	np	np	45.3	42.7	43.4
Keeps important documents together	83.7	76.4	81.3	81.6	81.6
Torch ready for use					
Does not have torch for ready use	np	np	np	np	9.8
Has torch ready for use	91.9	91.1	91.6	88.8	89.5
Total households	100.0	100.0	100.0	100.0	100.0

* estimate has a relative standard error of 25% to 50% and should be used with caution

** estimate has a relative standard error greater than 50% and is considered too unreliable for general use

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) For details regarding Comparability of estimates over time, see Explanatory Notes 9 to 11.

(b) Based on the 2010 edition of ASGC. See Explanatory Note 8 for details.

(c) Cells containing a small number of households are not shown but are included in Total Households.

(d) Includes households with at least one member on medication for a long term medical condition.

	<i>Experienced a major emergency</i>	<i>Never experienced a major emergency(c)</i>	<i>Total</i>
HOUSEHOLDS ('000)			
Exit plan from dwelling	36.6	350.2	386.8
Agreed meeting place	13.9	91.2	105.1
Available stored drinking water			
Does not have stored drinking water	16.6	272.3	288.9
Less than 1 litre	np	np	21.9
1 to less than 5 litres	11.7	248.7	260.5
5 to less than 10 litres	6.8	102.8	109.6
10 to less than 20 litres	*5.0	55.8	60.8
20 litres or more	23.7	112.2	135.9
Food that does not require cooking or refrigeration			
Does not have food of this type	np	np	69.5
1 to 3 days of food	20.7	312.9	333.6
4 to 6 days of food	18.8	199.1	217.9
7 to 14 days of food	19.2	182.2	201.4
More than 14 days of food	*4.6	49.6	54.2
Portable radio with working batteries			
Does not have portable radio with working batteries	28.9	415.4	444.3
Has portable radio with working batteries	36.2	394.6	430.9
Landline telephone			
Does not have landline telephone connection	8.9	193.4	202.3
Cordless handset	27.6	324.4	351.9
Fixed handset	7.6	np	np
Both cordless and fixed handsets	22.0	201.8	223.8
Internet access			
Does not have internet access	8.6	np	np
Has access to the internet	57.5	674.5	732.0
First aid qualification			
Qualification not obtained or renewed in last three years	np	np	141.3
Qualification obtained or renewed in last three years	32.9	310.0	342.9
List of medications kept for long term condition(d)	13.7	165.6	179.3
Keeps medication together(d)	31.7	351.2	383.0
Keeps important documents together	52.8	667.4	720.3
Torch ready for use			
Does not have torch for ready use	*2.6	84.2	86.9
Has torch ready for use	63.4	727.1	790.5
Total households	66.0	817.1	883.1

* estimate has a relative standard error of 25% to 50% and should be used with caution

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) For details regarding Comparability of estimates over time, see Explanatory Notes 9 to 11.

(b) Cells containing a small number of households are not shown but are included in Total Households.

(c) Includes households who responded Don't know.

(d) Includes households with at least one member on medication for a long term medical condition.

	<i>Experienced a major emergency</i>	<i>Never experienced a major emergency(c)</i>	<i>Total</i>
..... PROPORTION (%)			
Exit plan from dwelling	55.4	42.9	43.8
Agreed meeting place	21.0	11.2	11.9
Available stored drinking water			
Does not have stored drinking water	25.1	33.3	32.7
Less than 1 litre	np	np	2.5
1 to less than 5 litres	17.7	30.4	29.5
5 to less than 10 litres	10.3	12.6	12.4
10 to less than 20 litres	*7.6	6.8	6.9
20 litres or more	35.8	13.7	15.4
Food that does not require cooking or refrigeration			
Does not have food of this type	np	np	7.9
1 to 3 days of food	31.3	38.3	37.8
4 to 6 days of food	28.5	24.4	24.7
7 to 14 days of food	29.0	22.3	22.8
More than 14 days of food	*6.9	6.1	6.1
Portable radio with working batteries			
Does not have portable radio with working batteries	43.8	50.8	50.3
Has portable radio with working batteries	54.8	48.3	48.8
Landline telephone			
Does not have landline telephone connection	13.5	23.7	22.9
Cordless handset	41.7	39.7	39.9
Fixed handset	11.4	np	np
Both cordless and fixed handsets	33.3	24.7	25.3
Internet access			
Does not have internet access	13.0	np	np
Has access to the internet	87.0	82.5	82.9
First aid qualification			
Qualification not obtained or renewed in last three years	np	np	16.0
Qualification obtained or renewed in last three years	49.8	37.9	38.8
List of medications kept for long term condition(d)	20.7	20.3	20.3
Keeps medication together(d)	48.1	43.0	43.4
Keeps important documents together	80.0	81.7	81.6
Torch ready for use			
Does not have torch for ready use	*4.0	10.3	9.8
Has torch ready for use	96.0	89.0	89.5
Total households	100.0	100.0	100.0

* estimate has a relative standard error of 25% to 50% and should be used with caution

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) For details regarding Comparability of estimates over time, see Explanatory Notes 9 to 11.

(b) Cells containing a small number of households are not shown but are included in Total Households.

(c) Includes households who responded Don't know.

(d) Includes households with at least one member on medication for a long term medical condition.

	<i>Person living alone</i>	<i>Couple only</i>	<i>Couple with children(c)</i>	<i>Lone parent with children(c)</i>	<i>Other household types(d)</i>	<i>Total</i>
HOUSEHOLDS ('000)						
Exit plan from dwelling	113.8	104.4	93.1	20.1	55.4	386.8
Agreed meeting place	—	38.1	34.6	7.5	24.8	105.1
Available stored drinking water						
Does not have stored drinking water	72.8	61.4	91.6	16.2	46.8	288.9
Less than 1 litre	np	np	5.1	**0.9	*3.4	21.9
1 to less than 5 litres	70.3	71.3	64.6	14.4	39.9	260.5
5 to less than 10 litres	16.2	33.0	28.9	*6.9	24.6	109.6
10 to less than 20 litres	9.3	15.1	20.2	*2.1	14.1	60.8
20 litres or more	23.3	49.5	34.7	6.1	22.2	135.9
Food that does not require cooking or refrigeration						
Does not have food of this type	28.2	11.4	13.0	*4.1	12.8	69.5
1 to 3 days of food	74.7	81.6	108.1	15.8	53.5	333.6
4 to 6 days of food	38.8	66.2	58.6	14.0	40.3	217.9
7 to 14 days of food	46.4	59.9	51.5	10.2	33.4	201.4
More than 14 days of food	np	np	13.6	*2.4	10.9	54.2
Portable radio with working batteries						
Does not have portable radio with working batteries	101.0	104.7	136.1	28.3	74.1	444.3
Has portable radio with working batteries	98.6	np	108.9	np	76.2	430.9
Landline telephone						
Does not have landline telephone connection	60.6	36.6	40.8	20.8	43.6	202.3
Cordless handset	59.8	92.9	129.4	16.7	53.2	351.9
Fixed handset	37.4	np	18.5	*4.3	np	np
Both cordless and fixed handsets	43.9	76.3	57.9	5.5	40.1	223.8
Internet access						
Does not have internet access	74.3	42.7	np	np	np	np
Has access to the internet	127.5	192.3	237.6	39.8	134.7	732.0
First aid qualification						
Qualification not obtained or renewed in last three years	np	42.6	42.9	np	25.8	141.3
Qualification obtained or renewed in last three years	45.3	79.7	131.8	17.9	68.2	342.9
List of medications kept for long term condition(e)	49.5	68.0	22.7	*3.8	35.3	179.3
Keeps medication together(e)	94.1	125.5	np	np	70.3	383.0
Keeps important documents together	162.0	202.5	200.5	33.2	122.0	720.3
Torch ready for use						
Does not have torch for ready use	np	12.1	20.0	np	19.4	86.9
Has torch ready for use	174.6	221.6	225.6	37.8	130.9	790.5
Total households	201.8	235.0	246.6	47.3	152.4	883.1

- * estimate has a relative standard error of 25% to 50% and should be used with caution
- ** estimate has a relative standard error greater than 50% and is considered too unreliable for general use
- nil or rounded to zero (including null cells)
- np not available for publication but included in totals where applicable, unless otherwise indicated
- (a) For details regarding Comparability of estimates over time, see Explanatory Notes 9 to 11.
- (b) Cells containing a small number of households are not shown but are included in Total Households.
- (c) May include children under 15 years, dependent students and non-dependent children.
- (d) The definition of Other household types is provided in the Glossary.
- (e) Includes households with at least one member on medication for a long term medical condition.

	<i>Person living alone</i>	<i>Couple only</i>	<i>Couple with children(c)</i>	<i>Lone parent with children(c)</i>	<i>Other household types(d)</i>	<i>Total</i>
PROPORTION (%)						
Exit plan from dwelling	56.4	44.4	37.8	42.5	36.3	43.8
Agreed meeting place	—	16.2	14.0	16.0	16.3	11.9
Available stored drinking water						
Does not have stored drinking water	36.1	26.1	37.1	34.3	30.7	32.7
Less than 1 litre	np	np	2.1	**1.9	*2.3	2.5
1 to less than 5 litres	34.9	30.3	26.2	30.4	26.2	29.5
5 to less than 10 litres	8.0	14.0	11.7	*14.7	16.1	12.4
10 to less than 20 litres	4.6	6.4	8.2	*4.3	9.3	6.9
20 litres or more	11.5	21.1	14.1	13.0	14.6	15.4
Food that does not require cooking or refrigeration						
Does not have food of this type	14.0	4.8	5.3	*8.7	8.4	7.9
1 to 3 days of food	37.0	34.7	43.8	33.4	35.1	37.8
4 to 6 days of food	19.2	28.2	23.8	29.5	26.5	24.7
7 to 14 days of food	23.0	25.5	20.9	21.5	21.9	22.8
More than 14 days of food	np	np	5.5	*5.0	7.2	6.1
Portable radio with working batteries						
Does not have portable radio with working batteries	50.1	44.6	55.2	59.9	48.6	50.3
Has portable radio with working batteries	48.9	np	44.1	np	50.0	48.8
Landline telephone						
Does not have landline telephone connection	30.0	15.6	16.5	43.9	28.6	22.9
Cordless handset	29.6	39.5	52.5	35.3	34.9	39.9
Fixed handset	18.6	np	7.5	9.2	np	np
Both cordless and fixed handsets	21.8	32.5	23.5	11.6	26.3	25.3
Internet access						
Does not have internet access	36.8	18.2	np	np	np	np
Has access to the internet	63.2	81.8	96.4	84.2	88.4	82.9
First aid qualification						
Qualification not obtained or renewed in last three years	np	18.1	17.4	np	16.9	16.0
Qualification obtained or renewed in last three years	22.5	33.9	53.4	37.8	44.8	38.8
List of medications kept for long term condition(e)	24.5	29.0	9.2	*7.9	23.2	20.3
Keeps medication together(e)	46.7	53.4	np	np	46.1	43.4
Keeps important documents together	80.3	86.2	81.3	70.3	80.0	81.6
Torch ready for use						
Does not have torch for ready use	np	5.1	8.1	np	12.8	9.8
Has torch ready for use	86.5	94.3	91.5	79.8	85.9	89.5
Total households	100.0	100.0	100.0	100.0	100.0	100.0

* estimate has a relative standard error of 25% to 50% and should be used with caution

** estimate has a relative standard error greater than 50% and is considered too unreliable for general use

— nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) For details regarding Comparability of estimates over time, see Explanatory Notes 9 to 11.

(b) Cells containing a small number of households are not shown but are included in Total Households.

(c) May include children under 15 years, dependent students and non-dependent children.

(d) The definition of Other household types is provided in the Glossary.

(e) Includes households with at least one member on medication for a long term medical condition.

	Fully owned, or being purchased	Rented, or Other tenure types(c)	Total
HOUSEHOLDS ('000)			
Exit plan from dwelling	283.1	103.7	386.8
Agreed meeting place	75.5	29.5	105.1
Available stored drinking water			
Does not have stored drinking water	198.3	90.6	288.9
Less than 1 litre	15.6	6.4	21.9
1 to less than 5 litres	178.8	81.7	260.5
5 to less than 10 litres	75.4	34.2	109.6
10 to less than 20 litres	42.3	18.5	60.8
20 litres or more	111.0	24.9	135.9
Food that does not require cooking or refrigeration			
Does not have food of this type	40.0	29.6	69.5
1 to 3 days of food	231.1	102.5	333.6
4 to 6 days of food	162.2	55.8	217.9
7 to 14 days of food	146.2	55.2	201.4
More than 14 days of food	42.1	12.0	54.2
Portable radio with working batteries			
Does not have portable radio with working batteries	296.0	148.3	444.3
Has portable radio with working batteries	321.9	108.9	430.9
Landline telephone			
Does not have landline telephone connection	80.4	121.9	202.3
Cordless handset	274.3	77.6	351.9
Fixed handset	np	29.4	np
Both cordless and fixed handsets	193.9	29.9	223.8
Internet access			
Does not have internet access	np	np	np
Has access to the internet	523.1	208.9	732.0
First aid qualification			
Qualification not obtained or renewed in last three years	104.7	36.6	141.3
Qualification obtained or renewed in last three years	245.8	97.0	342.9
List of medications kept for long term condition(d)	135.4	43.9	179.3
Keeps medication together(d)	296.6	86.4	383.0
Keeps important documents together	516.5	203.8	720.3
Torch ready for use			
Does not have torch for ready use	37.9	48.9	86.9
Has torch ready for use	582.7	207.8	790.5
Total households	624.3	258.8	883.1

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) For details regarding Comparability of estimates over time, see Explanatory Notes 9 to 11.

(b) Cells containing a small number of households are not shown but are included in Total Households.

(c) The definition of Other tenure types is provided in the Glossary.

(d) Includes households with at least one member on medication for a long term medical condition.

	Fully owned, or being purchased	Rented, or Other tenure types(c)	Total
..... PROPORTION (%)			
Exit plan from dwelling	45.3	40.1	43.8
Agreed meeting place	12.1	11.4	11.9
Available stored drinking water			
Does not have stored drinking water	31.8	35.0	32.7
Less than 1 litre	2.5	2.5	2.5
1 to less than 5 litres	28.6	31.6	29.5
5 to less than 10 litres	12.1	13.2	12.4
10 to less than 20 litres	6.8	7.1	6.9
20 litres or more	17.8	9.6	15.4
Food that does not require cooking or refrigeration			
Does not have food of this type	6.4	11.4	7.9
1 to 3 days of food	37.0	39.6	37.8
4 to 6 days of food	26.0	21.5	24.7
7 to 14 days of food	23.4	21.3	22.8
More than 14 days of food	6.7	4.7	6.1
Portable radio with working batteries			
Does not have portable radio with working batteries	47.4	57.3	50.3
Has portable radio with working batteries	51.6	42.1	48.8
Landline telephone			
Does not have landline telephone connection	12.9	47.1	22.9
Cordless handset	43.9	30.0	39.9
Fixed handset	np	11.4	np
Both cordless and fixed handsets	31.1	11.6	25.3
Internet access			
Does not have internet access	np	np	np
Has access to the internet	83.8	80.7	82.9
First aid qualification			
Qualification not obtained or renewed in last three years	16.8	14.1	16.0
Qualification obtained or renewed in last three years	39.4	37.5	38.8
List of medications kept for long term condition(d)	21.7	17.0	20.3
Keeps medication together(d)	47.5	33.4	43.4
Keeps important documents together	82.7	78.7	81.6
Torch ready for use			
Does not have torch for ready use	6.1	18.9	9.8
Has torch ready for use	93.3	80.3	89.5
Total households	100.0	100.0	100.0

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) For details regarding Comparability of estimates over time, see Explanatory Notes 9 to 11.

(b) Cells containing a small number of households are not shown but are included in Total Households.

(c) The definition of Other tenure types is provided in the Glossary.

(d) Includes households with at least one member on medication for a long term medical condition.

EMERGENCY PREPAREDNESS (a), by dwelling type—WA(b)

	Separate house	Semi-detached, row or terrace house, townhouse, etc.	Flat, unit, apartment, or Other dwelling(c)	Total
HOUSEHOLDS ('000)				
Exit plan from dwelling	317.9	28.7	40.2	386.8
Agreed meeting place	93.4	*4.3	7.4	105.1
Available stored drinking water				
Does not have stored drinking water	235.4	27.8	25.7	288.9
Less than 1 litre	np	*1.6	np	21.9
1 to less than 5 litres	202.4	31.6	26.4	260.5
5 to less than 10 litres	92.5	8.7	8.4	109.6
10 to less than 20 litres	54.8	*3.4	*2.6	60.8
20 litres or more	126.4	5.8	*3.7	135.9
Food that does not require cooking or refrigeration				
Does not have food of this type	47.9	10.4	11.2	69.5
1 to 3 days of food	269.0	33.2	31.4	333.6
4 to 6 days of food	183.9	19.7	14.3	217.9
7 to 14 days of food	174.9	13.5	13.0	201.4
More than 14 days of food	49.7	np	np	54.2
Portable radio with working batteries				
Does not have portable radio with working batteries	360.3	np	np	444.3
Has portable radio with working batteries	364.3	36.5	30.1	430.9
Landline telephone				
Does not have landline telephone connection	146.6	28.1	27.6	202.3
Cordless handset	308.2	22.6	21.1	351.9
Fixed handset	np	14.2	13.2	np
Both cordless and fixed handsets	198.8	15.3	9.7	223.8
Internet access				
Does not have internet access	np	np	21.6	np
Has access to the internet	620.9	61.0	50.0	732.0
First aid qualification				
Qualification not obtained or renewed in last three years	125.2	np	np	141.3
Qualification obtained or renewed in last three years	297.7	22.8	22.4	342.9
List of medications kept for long term condition(d)	143.8	19.3	16.1	179.3
Keeps medication together(d)	323.1	31.5	28.4	383.0
Keeps important documents together	599.6	60.4	60.3	720.3
Torch ready for use				
Does not have torch for ready use	59.0	np	np	86.9
Has torch ready for use	668.0	65.9	56.7	790.5
Total households	731.4	80.2	71.6	883.1

* estimate has a relative standard error of 25% to 50% and should be used with caution

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) For details regarding Comparability of estimates over time, see Explanatory Notes 9 to 11.

(b) Cells containing a small number of households are not shown but are included in Total Households.

(c) The definition of Other dwelling is provided in the Glossary.

(d) Includes households with at least one member on medication for a long term medical condition.

	Separate house	Semi-detached, row or terrace house, townhouse, etc.	Flat, unit, apartment, or Other dwelling(c)	Total
PROPORTION (%)				
Exit plan from dwelling	43.5	35.9	56.1	43.8
Agreed meeting place	12.8	*5.3	10.3	11.9
Available stored drinking water				
Does not have stored drinking water	32.2	34.6	35.9	32.7
Less than 1 litre	np	*2.0	np	2.5
1 to less than 5 litres	27.7	39.4	36.9	29.5
5 to less than 10 litres	12.7	10.8	11.8	12.4
10 to less than 20 litres	7.5	*4.2	*3.7	6.9
20 litres or more	17.3	7.2	*5.2	15.4
Food that does not require cooking or refrigeration				
Does not have food of this type	6.6	13.0	15.7	7.9
1 to 3 days of food	36.8	41.4	43.8	37.8
4 to 6 days of food	25.1	24.6	20.0	24.7
7 to 14 days of food	23.9	16.8	18.1	22.8
More than 14 days of food	6.8	np	np	6.1
Portable radio with working batteries				
Does not have portable radio with working batteries	49.3	np	np	50.3
Has portable radio with working batteries	49.8	45.5	42.0	48.8
Landline telephone				
Does not have landline telephone connection	20.0	35.1	38.5	22.9
Cordless handset	42.1	28.2	29.5	39.9
Fixed handset	np	17.7	18.4	np
Both cordless and fixed handsets	27.2	19.0	13.5	25.3
Internet access				
Does not have internet access	np	np	30.1	np
Has access to the internet	84.9	76.0	69.9	82.9
First aid qualification				
Qualification not obtained or renewed in last three years	17.1	np	np	16.0
Qualification obtained or renewed in last three years	40.7	28.4	31.3	38.8
List of medications kept for long term condition(d)	19.7	24.1	22.5	20.3
Keeps medication together(d)	44.2	39.2	39.7	43.4
Keeps important documents together	82.0	75.3	84.3	81.6
Torch ready for use				
Does not have torch for ready use	8.1	np	np	9.8
Has torch ready for use	91.3	82.2	79.1	89.5
Total households	100.0	100.0	100.0	100.0

* estimate has a relative standard error of 25% to 50% and should be used with caution

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) For details regarding Comparability of estimates over time, see Explanatory Notes 9 to 11.

(b) Cells containing a small number of households are not shown but are included in Total Households.

(c) The definition of Other dwelling is provided in the Glossary.

(d) Includes households with at least one member on medication for a long term medical condition.

	<i>Fully owned, or being purchased</i>	<i>Rented, or Other tenure types(a)</i>	<i>Total</i>
.....			
HOUSEHOLDS ('000)			
Comprehensive insurance cover(b)(c)	576.6	. .	576.6
Building insurance cover only(c)	30.4	. .	30.4
Contents insurance cover only	*1.7	123.1	124.8
Does not have insurance cover	*7.8	123.5	131.3
Don't know(d)	7.8	12.2	20.0
Total households	624.3	258.8	883.1

.....			
PROPORTION (%)			
Comprehensive insurance cover(b)(c)	92.4	. .	65.3
Building insurance cover only(c)	4.9	. .	3.4
Contents insurance cover only	*0.3	47.6	14.1
Does not have insurance cover	*1.3	47.7	14.9
Don't know(d)	1.3	4.7	2.3
Total households	100.0	100.0	100.0

- * estimate has a relative standard error of 25% to 50% and should be used with caution
- . . not applicable
- (a) The definition of Other tenure types is provided in the Glossary.
- (b) Includes households with both building and contents insurance cover.
- (c) Applicable only to dwellings which are fully owned or being purchased by a household member.
- (d) Includes households where either building or contents insurance cover, or both are unknown.

	STATISTICAL REGION					
	Central Metropolitan	Eastern Metropolitan	Northern Metropolitan	South West Metropolitan	South East Metropolitan	Perth MSR
HOUSEHOLDS ('000)						
Police contacts	*1.6	13.9	*6.6	*5.1	*14.4	41.6
Road Traffic Authority (RTA) contacts	np	*1.3	*1.6	**1.4	np	np
Telephone hotline	5.9	14.2	23.9	19.4	24.3	87.6
Internet	25.8	38.7	108.3	72.0	64.2	309.0
Radio	27.1	51.6	120.5	88.6	91.8	379.6
Television	21.4	37.6	93.7	76.0	71.7	300.5
Emergency services personnel	*3.1	*14.8	9.1	*10.2	18.2	55.4
Other	*3.9	11.5	24.4	18.8	12.9	71.5
Don't know	np	*2.7	*4.9	6.2	np	np
PROPORTION (%)						
Police contacts	*2.8	13.1	3.0	*3.5	*10.5	6.3
Road Traffic Authority (RTA) contacts	np	*1.3	*0.7	**0.9	np	np
Telephone hotline	10.4	13.4	10.7	13.5	17.7	13.2
Internet	46.0	36.6	48.7	49.9	46.7	46.4
Radio	48.3	48.7	54.2	61.4	66.8	57.0
Television	38.2	35.5	42.2	52.7	52.2	45.1
Emergency services personnel	*5.5	14.0	4.1	*7.1	13.2	8.3
Other	*6.9	10.9	11.0	13.1	9.4	10.7
Don't know	np	*2.5	*2.2	4.3	np	np

* estimate has a relative standard error of 25% to 50% and should be used with caution

** estimate has a relative standard error greater than 50% and is considered too unreliable for general use

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Households were able to provide multiple responses to this question. Therefore, components sum to the total number of responses, rather than the total number of households.

(b) Based on the 2010 edition of ASGC. See Explanatory Note 8 for details.

	STATISTICAL REGION				
	Lower Western WA	Remainder-Balance of WA	Balance of WA MSR	Perth MSR	WA
HOUSEHOLDS ('000)					
Police contacts	*6.3	**9.1	*15.3	41.6	56.9
Road Traffic Authority (RTA) contacts	np	—	np	np	*5.9
Telephone hotline	23.5	*11.4	34.9	87.6	122.5
Internet	60.1	20.4	80.5	309.0	389.5
Radio	78.9	42.1	120.9	379.6	500.5
Television	63.6	*18.1	81.7	300.5	382.2
Emergency services personnel	12.9	*9.7	22.6	55.4	78.0
Other	*9.3	*5.8	15.2	71.5	86.7
Don't know	np	*2.3	np	np	29.9
PROPORTION (%)					
Police contacts	*4.3	**12.7	*7.1	6.3	6.4
Road Traffic Authority (RTA) contacts	np	—	np	np	*0.7
Telephone hotline	16.1	16.0	16.1	13.2	13.9
Internet	41.2	28.6	37.1	46.4	44.1
Radio	54.1	58.8	55.7	57.0	56.7
Television	43.7	25.3	37.6	45.1	43.3
Emergency services personnel	8.8	*13.6	10.4	8.3	8.8
Other	*6.4	*8.2	7.0	10.7	9.8
Don't know	np	*3.2	np	np	3.4

* estimate has a relative standard error of 25% to 50% and should be used with caution

** estimate has a relative standard error greater than 50% and is considered too unreliable for general use

— nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Households were able to provide multiple responses to this question. Therefore, components sum to the total number of responses, rather than the total number of households.

(b) Based on the 2010 edition of ASGC. See Explanatory Note 8 for details.

EXPLANATORY NOTES

INTRODUCTION

1 This publication presents statistics collected from Western Australian households in the 2011 State Supplementary Survey, *Community Preparedness for Emergencies, Western Australia, 2011*, during the two weeks commencing Sunday 9 October 2011.

2 The survey was conducted as a supplement to the ABS *Labour Force Survey (LFS)*, by either telephone questionnaire or face to face interview, from any responsible adult in the household. This adult answered questions on behalf of the household. Information was sought from 2,867 households and data was obtained from 93.9% of these households.

3 All population estimates presented in the tables in this release have been rounded to the nearest 100.

DEFINITIONS

4 Preparedness refers to the results of measures to ensure that, should an emergency occur, communities, resources and services are capable of responding to, and coping with, the effects. Source: *Information paper: Emergency management information development plan, Australia, 2006* (cat. no. 1385.0)

5 A major emergency refers to an event that threatens or damages the dwelling or threatens or harms occupants of the dwelling. Principal categories include bush fires, floods, earthquakes, cyclones and other hazardous events.

SCOPE

6 The survey *Community Preparedness for Emergencies, Western Australia, 2011*, was conducted on a subset of the full sample of private dwellings in WA that were included in the LFS. The survey covered all persons who were usual residents of private dwellings except:

- members of the Australian permanent defence forces
- certain diplomatic personnel of overseas governments, customarily excluded from censuses and surveys
- overseas residents in Australia
- members of non–Australian defence forces (and their dependents) stationed in Australia
- households consisting entirely of visitors; and
- persons living in very remote areas of WA.

COVERAGE

7 Coverage rules were applied to ensure that each person was associated with only one dwelling and hence had only one chance of selection in the survey.

AUSTRALIAN STANDARD GEOGRAPHY CLASSIFICATION (ASGC)

8 Statistics in this release have been compiled based on the *Australian Standard Geography Classification (ASGC), July 2010*, (cat. no. 1216.0).

EXPLANATORY NOTES *continued*

COMPARABILITY OF ESTIMATES OVER TIME

Changes to data items

9 *Community Preparedness for Emergencies* was also the State Supplementary Survey topic in 2007. Factors that affect the comparability of 2011 estimates with those of 2007 are described below.

10 The 2011 survey incorporates the following changes:

- removal of the following:
 - whether any household members have a vocational/voluntary role requiring them to assist in an emergency
 - whether anyone in the household has a mobile phone
 - whether any of the mobile phones are used for text messaging, twitter, internet access, email
- addition of the following:
 - whether dwelling has house and contents insurance
 - means of obtaining emergency evacuation information
 - whether anyone in the household that does not speak English would understand instructions in English.

Implementation of the 2010 edition of the Australian Standard Geography Classification (ASGC)

11 The ASGC is amended and released annually; differences which exist between editions represent a break in series. Users should familiarise themselves with those differences by referring to the *Australian Standard Geography Classification (ASGC), July 2010*, (cat no. 1216.0).

RELATED PUBLICATIONS

12 Users may wish to refer to the following ABS publications:

Australian Standard Geographical Classification (ASGC), July 2010, (cat. no. 1216.0)

Community preparedness for Emergencies, WA, Oct. 2007, (cat. no. 4818.5)

Community preparedness for Emergencies, NSW, Oct. 2003, (cat. no. 4818.1)

Household preparedness for Emergencies: NSW, Vic., Qld and ACT, Oct. 2007, (cat no. 4818.0.55.001)

Information Paper: Emergency management information development plan, 2006, (cat. no. 1385.0)

Emergency management information development plan Matrix, 2006, (cat. no. 1385.0.55.001)

Labour Force Survey, (LFS, cat. no. 6202.0)

13 Users may also wish to refer to the following, related publications:

Community Engagement Framework, 2011, Fire and Emergency Services Authority (FESA), Government of Western Australia

The Directory of National Data Items and Questions for Evaluation of Household Preparedness for Fire and Natural Disaster Emergencies, 2010, ABS for the New South Wales Fire Brigade (NSWFB)

ABS WEBSITE

14 Other information relating to Western Australia can be found on the ABS website <www.abs.gov.au>. See the Western Australia theme page under Topics@ a Glance/Regional.

15 Previous State Supplementary Survey topics can be found on the Supplementary Surveys page, under the Services for State and Territory Government section of the Western Australia theme page under Topics@ a Glance/Regional.

EFFECTS OF ROUNDING

16 Estimates in this publication have been rounded and discrepancies may occur between sums of the component items and totals.

APPENDIX APPENDIX 1

ADDITIONAL DATA AVAILABLE

In addition to the statistics provided in this publication, the ABS can produce customised tabulations on request. Subject to confidentiality and sampling variability constraints, tabulations can be produced from the survey by cross-classifying any of the following data items for the relevant survey populations.

Some data items have changed from the previous iteration of this State Supplementary Survey topic. See Explanatory note 10 for details.

DATA ITEMS

Demographic

Region of usual residence

- Perth Major Statistical Region
- Balance of WA Major Statistical Region

Dissemination region

- Central metropolitan
- Eastern metropolitan
- Northern metropolitan
- South west metropolitan
- South east metropolitan
- Lower western WA
- Remainder-balance of WA

Family composition of household

- One family households
 - Couple family with dependent children
 - One parent family with dependent children
 - Couple only
 - Other one family households
- Multiple family households
- Non-family households
 - Lone person
 - Group household

Family composition

- Couple family
 - Couple family with children under 15
 - Couple family with no children under 15
- One parent family
 - One parent family with children under 15
 - One parent family with no children under 15
- Other family

Number of people in household

- Lone person
- Two persons
- Three persons
- Four or more persons

Elderly households

- Household with no persons aged 75 years and over
- Households with one person aged 75 years and over
- Households with two or more persons aged 75 years and over

Seniors households

- At least one person aged 60 years and over
- No persons aged 60 years and over

APPENDIX APPENDIX 1 *continued*

Demographic continued

- Number of persons aged 15 years and over
 - One person aged 15 years and over
 - Two persons aged 15 years and over
 - Three or more persons aged 15 years and over
 - No person aged 15 years and over
- Number of children aged 0 to 14 in the household
 - One child aged 0 to 14
 - Two or more children aged 0 to 14
 - No children aged 0 to 14
- Young and senior household members
 - No persons under 15 years nor over 59 years of age
 - At least one person under 15 years but no one over 59 years of age
 - At least one person over 59 years but no one under 15 years of age
 - At least one person under 15 years and one person over 59 years of age
- Age of youngest household member in household
 - Household with at least one member aged 0 to 4 years
 - Household with at least one member aged 5 to 9 but none less than 5 years
 - Household with at least one member aged 10 to 14 but none less than 10 years
 - Household with at least one member aged 15 to 19 but none less than 15 years
 - Household with no member aged less than 20 years

Evacuation and communication

- Whether household has experienced any major emergencies in their area
 - Have experienced a major emergency in area
 - Have not experienced a major emergency in area
 - Don't know
- Whether household has agreed place to meet if evacuated or unable to return home
 - Have agreed place to meet
 - Do not have agreed place to meet
 - Don't know
- Whether household member(s) have plans for how to get out of the dwelling if there was an emergency
 - Has plans to get out of dwelling
 - Does not have plans to get out of dwelling
 - Don't know
- Whether anyone in household would need help getting out of dwelling in an emergency
 - Need help to leave dwelling
 - Do not need help to leave dwelling
- Assistance required to leave dwelling
 - Young children or babies needing help
 - Mobility impaired
 - Visually impaired
 - Intellectual disability
 - Other
 - Do not need help
- Whether anyone in household would need help with transport to leave area in an emergency
 - Need transport help to leave area
 - Do not need transport help to leave area
- Whether household has anyone to stay with if had to leave home
 - Have someone to stay with
 - Do not have anyone to stay with

APPENDIX APPENDIX 1 *continued*

Evacuation and communication continued

- Whether household has pets needing evacuation in an emergency
 - Have pets needing evacuation
 - Do not have pets needing evacuation
- Reasons household members would not want to leave dwelling
 - Do not have reasons
 - Looters, security or vandalism
 - Stay and protect in a bush fire
 - Other
- Whether anyone in household cares for anyone outside the household (excluding paid care)
 - Someone in household cares for someone who lives elsewhere
 - No person caring for someone who lives elsewhere
- Whether household has persons who do not understand English
 - Someone in household does not understand English
 - All understand English
- Whether household has someone who does not speak English
 - Someone in household does not speak English
 - All speak English
- Whether person who does not understand or speak English would understand emergency instructions in English
 - Would understand emergency instructions in English
 - Would not understand emergency instructions in English

Preparedness

- Whether household has any drinking water in bottles or containers
 - Has water stored
 - Does not have stored drinking water
 - Don't know
- Available stored drinking water
 - Less than 1 litre
 - 1 to less than 5 litres
 - 5 to less than 10 litres
 - 10 to less than 20 litres
 - 20 litres or more
 - Have water stored but unknown volume
 - Don't know if there is stored water
 - No bottled water
- Whether household has food that does not require cooking or refrigeration
 - Has food that does not require cooking or refrigeration
 - Does not have food of this type
 - Don't know
- Amount of stored ready to eat food
 - 1 to 3 days of food
 - 4 to 6 days of food
 - 7 to 14 days of food
 - More than 14 days of food
 - Have food but unknown quantity
 - Don't know if there is stored food
 - None stored

APPENDIX APPENDIX 1 *continued*

Preparedness continued

- Whether household has a torch which is ready to use in your home
 - Torch ready to use
 - Does not have torch ready for use
 - Don't know
- Whether household has a portable radio with working batteries in it
 - Has portable radio with working batteries
 - Does not have portable radio with working batteries
 - Don't know
- Whether household has landline telephone
 - Has landline telephone connection
 - Does not have landline telephone connection
 - Don't know
- Landline telephones
 - Cordless handset only
 - Fixed handset only
 - Both cordless and fixed handsets
 - Don't know type of handset in use
 - Don't know if have landline phone
 - Does not have landline telephones
- Access to the internet
 - Has access to the internet
 - Does not have access to the internet
 - Don't know
- First aid qualification
 - Someone has first aid qualification
 - No-one has first aid qualification
 - Don't know
- First aid qualification and recency of qualification
 - Qualification obtained or renewed in last three years
 - Qualification not obtained or renewed in last three years
 - Don't know if qualification obtained or renewed in last three years
 - Don't know if anyone has first aid qualification
 - No first aid qualification
- Whether household keeps important documents together
 - Keeps important documents together
 - Does not keep important documents together
 - Don't know
- Medication for any long term medical conditions
 - Someone in household on medication for long term medical condition
 - No-one on medication for long term medical condition
 - Don't know
- Medications and whether medications kept together
 - Medications kept together
 - Medications not kept together
 - Has medication but don't know if kept together
 - Don't know if anyone is on medication for long term condition
 - No-one on medication for long term condition

APPENDIX APPENDIX 1 *continued*

Preparedness continued

Whether on medication for long term medical condition and whether list of medications kept

List of medications kept for long term condition

Does not have medication list kept for long term condition

Don't know if there's medication list but have medication for long term condition

Don't know if anyone on medication for long term condition

No-one on medication for long term condition

Awareness-Preparing

Awareness of how warnings are communicated

Police contacts

Road Traffic Authority (RTA) contacts

Telephone hotline

Internet

Radio

Television

Emergency services personnel

Other

Don't know

Dwelling characteristics

Dwelling structure

Separate house

Semi-detached, row or terrace house, townhouse, etc.

Flat, unit, or apartment

Other

Tenure type

Fully owned, or being purchased

Rented

Other

Whether dwelling is covered by building insurance

Covered by building insurance

Does not have building insurance cover

Don't know

Whether dwelling is covered by contents insurance

Covered by contents insurance

Does not have contents insurance cover

Don't know

Whether dwelling is covered by comprehensive insurance

Comprehensive - both building and contents

Building cover only

Contents cover only

Does not have any cover

Don't know

TECHNICAL NOTE DATA QUALITY

RELIABILITY OF ESTIMATES

SAMPLING ERROR

- 1 Estimates in this publication are subject to non-sampling and sampling errors.
- 2 As estimates in this publication are based on information obtained from a sample, they are subject to sampling variability. That is, they may differ from those estimates that would have been produced if all dwellings had been included in the survey.
- 3 One measure of the likely difference between the sample and population estimates is given by the standard error (SE), which indicates the extent to which an estimate might have varied by chance, because only a sample of dwellings (or occupants) was included.
- 4 There are about two chances in three (67%) that a sample estimate will differ by less than one SE from the number that would have been obtained if all dwellings had been included, and about 19 chances in 20 (95%) that the difference will be less than two SEs.
- 5 Another measure of the likely difference between the sample estimate and the population estimate is the relative standard error (RSE), which is obtained by expressing the SE as a percentage of the estimate:

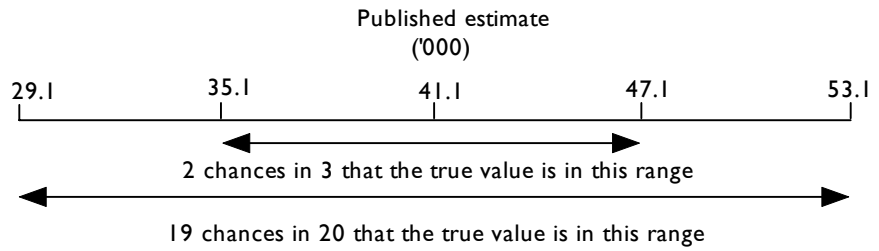
$$RSE\% = \frac{SE}{estimate} \times 100$$

- 6 RSEs for estimates from the survey of *Community Preparedness for Emergencies, WA, 2011* are published for each individual data cell. The Jackknife method of variance estimation is used for this process, which involves the calculation of 30 'replicate' estimates based on sub-samples of the original sample. The variability of estimates obtained from these sub-samples is used to estimate the sample variability surrounding the main estimate.
- 7 Limited publication space does not allow for the separate indication of the SEs and/or RSEs of all the estimates in this publication. However, RSEs for all these estimates are available free-of-charge on the ABS web site <www.abs.gov.au>.
- 8 In this publication, only estimates (numbers and proportions) with RSEs less than 25% are considered sufficiently reliable for most purposes. Estimates with RSEs between 25% and 50% have been included and are preceded by an asterisk (e.g. *3.4) to indicate they are subject to high uncertainty and should be used with caution.
- 9 Estimates with RSEs greater than 50% are preceded by a double asterisk (e.g. **2.1) to indicate that they are considered too unreliable for general use.
- 10 SEs can be calculated using the estimates (counts or proportions) and the corresponding RSEs. For example, Table 1 shows that the estimated number of households in Perth that have experienced any major emergencies was 41,100 (rounded to the nearest 100). The RSE table corresponding to the estimates in Table 1 (see Relative Standard Errors in the 'Relative Standard Error Table' section at the end of these Technical Notes) shows the RSE for this estimate is 14.6%. The SE is calculated by:

$$\begin{aligned} SE \text{ of estimate} &= \left(\frac{RSE}{100} \right) \times \text{estimate} \\ &= \left(\frac{14.6}{100} \right) \times 41,100 \\ &= 6,000 \text{ (rounded to nearest 100)} \end{aligned}$$

- 11 Therefore, there are about two chances in three that the actual number of Perth households that have experienced any major emergencies was in the range of 35,100 to 47,100 and about 19 chances in 20 that the value was in the range of 29,100 to 53,100. This example is illustrated in the diagram below.

SAMPLING ERROR *continued*



ESTIMATION PROCEDURE

12 The estimates in this publication were obtained using a post-stratification procedure. This procedure ensured that the survey estimates conformed to an independently estimated distribution of the population, by state, part of state, age and sex rather than the observed distribution among respondents.

PROPORTIONS AND PERCENTAGES

13 Proportions and percentages formed from the ratio of two estimates are also subject to sampling errors. The size of the error depends on the accuracy of both the numerator and the denominator. A formula to approximate the RSE of a proportion is given below. This formula is only valid when the numerator (x) is a subset of the denominator (y).

$$RSE\left(\frac{x}{y}\right) = \sqrt{[RSE(x)]^2 - [RSE(y)]^2}$$

14 As an example, using estimates from Table 1, of the approximately 665,900 households in Perth, 49.4%, that is approximately 329,100 households, will need to have their pets evacuated in a major emergency. The RSE for 329,100 is 2.5% and for 665,900 is 0.9% (see Relative Standard Errors in the 'Relative Standard Error Table' section at the end of these Technical Notes). Applying the above formula, the RSE for the proportion of households in Perth with pets needing evacuation in an emergency is:

$$RSE\left(\frac{x}{y}\right) = \sqrt{[2.5]^2 - [0.9]^2} = 2.3\%$$

15 Differences in the RSE calculated in the example above (2.3%) and the published RSE value (2.4%), are due to the use of rounded figures in the example above.

DIFFERENCES

16 Published estimates may also be used to calculate the difference between two survey estimates (of numbers or proportions). Such an estimate is also subject to sampling error. The sampling error of the difference between two estimates depends on their SEs and the relationship (correlation) between them. An approximate SE of the difference between two estimates (x-y) may be calculated by the following formula:

$$SE(x - y) = \sqrt{[SE(x)]^2 + [SE(y)]^2}$$

17 While this formula will only be exact for differences between separate and uncorrelated characteristics or subpopulations, it provides a good approximation for all differences likely to be of interest in this publication.

TECHNICAL NOTE DATA QUALITY *continued*

SIGNIFICANCE TESTING

18 A statistical significance test for any comparisons between estimates can be performed to determine whether it is likely that there is a difference between two corresponding population characteristics. The standard error of the difference between two corresponding estimates (x and y) can be calculated using the formula in paragraph 16, above. The standard error is then used to create the following test statistic:

$$\frac{|(x - y)|}{SE(x - y)}$$

19 If the value of this test statistic is greater than 1.96, then there is evidence, with a 95% level of confidence, of a statistically significant difference in the two populations with respect to that characteristic. Otherwise, it cannot be stated with confidence that there is a real difference between the populations with respect to that characteristic.

RELATIVE STANDARD ERROR TABLE

20 The RSE values for Table 1, used to calculate the figures in the examples described in paragraphs 10, 11 and 14, are given in the table below.

EVACUATION AND SELECTED HOUSEHOLD CHARACTERISTICS(a), by Perth Major Statistical Region(b)—WA

	STATISTICAL REGION					
	Central Metropolitan	Eastern Metropolitan	Northern Metropolitan	South West Metropolitan	South East Metropolitan	Perth MSR
	%	%	%	%	%	%
RSE OF HOUSEHOLDS						
Experienced any major emergencies	47.2	31.9	30.7	34.8	24.5	14.6
Require assistance to exit dwelling	19.5	12.3	9.4	12.7	10.1	3.3
Require transport assistance	17.0	15.4	9.7	11.3	11.1	4.0
Have access to alternate accommodation	12.1	8.7	5.0	8.1	7.3	1.3
Pets needing evacuation	16.6	11.3	6.8	9.5	8.9	2.5
Provide unpaid care to non-household member	26.6	35.3	13.6	21.1	26.4	9.1
Unable to understand English	np	35.3	20.3	np	25.3	12.5
Unable to speak English	59.5	37.1	21.5	38.0	24.4	11.8
Unable to understand emergency instructions in English	np	59.8	31.0	np	30.5	np
Not willing to evacuate	45.0	27.9	20.0	19.4	17.5	9.6
Total households	12.0	8.2	4.8	8.1	6.5	0.9

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) For details regarding Comparability of estimates over time, see Explanatory Notes 9 to 11.

(b) Based on the 2010 edition of ASGC. See Explanatory Note 8 for details.

NON-SAMPLING ERROR

21 Non-sampling errors may arise as a result of errors in the reporting, recording or processing of data. These errors can be introduced through inadequacies in the questionnaire, treatment of non-response, inaccurate reporting by data providers, errors in the application of survey procedures, incorrect recording of answers and errors in data capture and processing.

22 The extent to which non-sampling error affects the results is difficult to measure. Every effort is made to minimise non-sampling error by careful design and testing of the collection instrument, intensive training and supervision of interviewers and the use of efficient operating procedures and systems.

COMPARABILITY OF ESTIMATES OVER TIME

23 In addition to the non-sampling errors outlined in the Reliability of statistics section, other factors may affect the comparability of estimates over with earlier iterations of this State Supplementary Survey topic. These factors are described in Explanatory notes 9 to 11.

GLOSSARY

Any Responsible Adult (ARA)	Any adult member of a household who provides survey information on behalf of all household members.
Balance of Western Australia Major Statistical Region (MSR)	The <i>Australian Standard Geographical Classification (ASGC), 2010</i> divides Western Australia (WA) into two Major Statistical Regions (MSRs), the Perth MSR and the Balance of WA MSR. The Non-metropolitan Region of WA is represented by the Balance of Western Australia MSR, which can be further subdivided into two Statistical Regions (SRs): Lower Western Western Australia SR; and Remainder – Balance Western Australia SR. For further information refer to the <i>Australian Standard Geographical Classification, 2010</i> (cat. no. 1216.0).
Couple only	A couple relationship is defined as two people usually residing in the same household who share a social, economic and emotional bond usually associated with marriage and who consider their relationship to be a marriage or marriage-like union. This relationship is identified by the presence of a registered marriage or de facto marriage.
Couple with children	This is a couple family with children present. It can be expanded to elaborate on the characteristics of those children, such as their number, age and dependency status. This family may or may not include other related individuals.
Dwelling	A 'dwelling' is defined as a suite of rooms contained within a building which are self-contained and intended for long-term residential use. To be self-contained the suite of rooms must possess cooking and bathing facilities as building fixtures.
Emergency	An event that threatens or damages the dwelling, or threatens or harms occupants of the dwelling. Major categories include bush fires, floods, earthquakes, cyclones and other hazardous events.
Exit plan	An agreed plan for rapid exit from the household residence if there was an emergency.
Family	Two or more persons, one of whom is at least 15 years of age, who are related by blood, marriage (registered or de facto), adoption, step or fostering, and who are usually resident in the same household. The basis of a family is formed by identifying the presence of a couple relationship, lone parent-child relationship or other blood relationship. Some households will, therefore, contain more than one family.
Flat, unit or apartment	Flat, unit or apartment represents all dwellings in blocks of flats, units or apartments. These dwellings usually share a common entrance foyer or stairwell. This category also includes flats attached to houses such as granny flats and houses converted into two or more flats.
Household	A group of residents of a dwelling who share common facilities and meals or who consider themselves to be a household. It is possible for a dwelling to contain more than one household, for example, where regular provision is made for groups to take meals separately and where persons consider their household to be separate.
Life tenure scheme	In the case of life tenure scheme/s the person/s has/have a contract to live in the dwelling for the term of his/her life but without the full rights of ownership and usually has/have limited or no equity in the dwelling. This is a common arrangement in retirement villages.
Lone parent with children	<p>A family consisting of a lone parent with at least one dependent or non-dependent child (regardless of age) who is also usually resident in the family. This family type may or may not include other related individuals.</p> <p>The one parent family concept can be expanded to elaborate on the characteristics of the children, such as whether they are dependent children, or not, and for dependent children whether they are aged under 15 or are dependent students. Examples of one parent families include: a 25-year-old parent with dependent children; and an 80-year-old parent living with a 50-year-old child.</p>

GLOSSARY *continued*

Other dwelling	Other dwelling describes accommodation that may be classified as to include: caravan, tent, cabin, houseboat, improvised home, and house or flat attached to a shop, office, factory or storage facility.
Other household types	This category includes group households, as well as related individuals residing in the same household who do not form a couple or parent-child relationship with any other person in the household.
Other tenure types	This tenure category specifically excludes household residence that is either fully owned, being purchased or rented by the occupant. It includes life tenure scheme, participant of rent/buy (or shared equity) scheme, rent-free accommodation and any other household accommodation arrangement not described.
Perth Major Statistical Region (MSR)	The <i>Australian Standard Geographical Classification (ASGC), 2010</i> divides Western Australia (WA) into two Major Statistical Regions (MSRs), namely Perth MSR and the Balance of Western Australia MSR. Under the ASGC 2010, this region is equivalent to the Perth Metropolitan Area and is composed of the following Statistical regions: Central metropolitan, East metropolitan, North metropolitan, South west metropolitan and South east metropolitan. For further information refer to the <i>Australian Standard Geography Classification, 2010</i> (cat no. 1216.0).
Region of usual residence	A person's area of usual residence as classified by the Statistical Region structure in the <i>Australian Standard Geographical Classification, 2010</i> . The classification divides Western Australia into two Major Statistical Regions – the Perth Major Statistical Region and the Balance of WA (otherwise know as the non-metropolitan region.) Perth Major Statistical Region is further divided into Statistical Regions of – Central Metropolitan, East Metropolitan, North Metropolitan, South West Metropolitan and South East Metropolitan. For further information refer to <i>Australian Standard Geographical Classification, 2010</i> (cat. no. 1216.0) and <i>Information Paper: Regional Labour Force Statistics, September 1997</i> (cat. no. 6262.0).
Semi-detached, row or terrace house, townhouse, etc.	A dwelling that is either attached in some structural way to one or more dwellings or is separated from neighbouring dwellings by less than half a metre (includes duplexes). It has its own private grounds and no other dwelling above or below it.
Separate house	A house that stands alone in its own grounds separated from other dwellings by at least half a metre. It may have a flat attached to it, such as a granny flat or converted garage. The attached flat will be included in the 'Flat, unit or apartment' category.
Stored drinking water	Drinking water kept in bottles, containers, or tanks.

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