



Australian Government

Department of Infrastructure, Transport, Cities and Regional Development

Bureau of Infrastructure, Transport and Regional Economics

Yearbook 2019

Progress in Australian Regions



Context 2: Transport and Infrastructure



Infrastructure is a key enabler of progress across regions. The right infrastructure can help regions capitalise on their comparative and competitive advantages, help people access work and other community services, and facilitate the movement of freight between locations. Infrastructure is also important in providing the basic services and utilities that Australians require to maintain and enhance their standard of living.

The infrastructure information in the Context section of this Yearbook can be used to provide background information to the progress that we see across regions, and how infrastructure capacity constraints may be hampering the development of regions. This information can inform decisions on strategic investment in transport infrastructure and the development of policies and programs across the regions of Australia.

Transport and Infrastructure			
Moving people		Moving freight	
Transport mode for journey to work	p. 262	Road freight activity	p. 283
Passengers through airports	p. 274	Volume of freight through ports	p. 284
Dwellings with no motor vehicle	p. 276	Value of international freight through ports	p. 287
Kilometres travelled by passenger vehicles	p. 281	Communication and utilities	
Road speed performance	p. 282	Dwellings with an internet connection	p. 288
		Residential water supply	p. 293
		Land use	
		Land area and land use	p. 294

C 2.1 Moving people

C 2.1.1 Transport mode for journey to work

Many commuters use more than one mode of transport to get to work. This indicator provides a summary of the primary mode used by commuters, prioritised in the order of public transport, private vehicle, active travel and working from home. Modes have been classified as:

- private vehicle (e.g. car as driver, car as passenger, truck or motorbike);
- public transport (e.g. bus, train, ferry, tram or taxi);
- active travel (e.g. exclusively walking or cycling);
- working from home; and
- other (all other forms of transport).

Table C 2.1.1.a Transport mode shares for journey to work by remoteness class

Remoteness Class	Public per cent	Private per cent	Active per cent	Other per cent	Work from home per cent
2006					
Major Cities	14.1	76.3	4.8	0.5	4.2
Inner Regional	2.2	83.8	6.3	0.7	7.1
Outer Regional	2.0	78.4	8.3	1.3	10.0
Remote	3.0	70.2	13.4	1.9	11.6
Very Remote	4.9	50.6	31.7	3.0	9.8
AUSTRALIA	10.7	77.5	5.8	0.7	5.4
2011					
Major Cities	15.7	74.7	4.8	0.6	4.1
Inner Regional	2.6	85.0	5.3	0.7	6.4
Outer Regional	2.2	80.8	7.2	1.3	8.5
Remote	3.8	73.0	11.8	1.9	9.6
Very Remote	9.7	52.2	26.3	4.0	7.7
AUSTRALIA	12.1	76.7	5.4	0.7	5.0
2016					
Major Cities	16.7	73.3	4.7	0.7	4.6
Inner Regional	2.5	85.7	4.6	0.7	6.5
Outer Regional	2.5	82.2	6.2	1.1	7.9
Remote	3.0	75.2	10.7	1.8	9.3
Very Remote	11.6	54.8	22.3	3.9	7.4
AUSTRALIA	13.1	75.9	5.0	0.8	5.3

Source: ABS 2018, Customised report, Census of Population and Housing, Australia

Geography is based on the 2016 ASGS.

Data based on place of usual residence.

Private vehicle includes car as driver, car as passenger, truck, motorbike/scooter.

Public transport includes train, bus, ferry, tram, taxi.

Active travel includes bicycle and walking.

Other includes all other forms of transport not listed above.

Calculation excludes Not Stated category from the denominator.

Figures in table may not sum to 100% due to rounding.

Table C 2.1.1.b Transport mode shares for journey to work by major urban area

Major Urban Area	Public per cent	Private per cent	Active per cent	Other per cent	Work from home per cent
2006					
Greater Sydney	20.8	68.9	5.4	0.5	4.4
Greater Melbourne	13.7	76.9	4.7	0.4	4.2
Greater Brisbane	13.3	77.0	4.5	0.5	4.7
Greater Perth	10.0	81.2	3.6	1.0	4.1
Greater Adelaide	9.7	81.5	4.5	0.6	3.7
Gold Coast - Tweed Heads	3.6	85.3	4.4	0.6	6.1
Newcastle - Maitland	3.6	88.0	4.4	0.4	3.6
Canberra - Queanbeyan	7.5	82.0	6.8	0.4	3.3
Sunshine Coast	2.5	84.0	5.0	0.6	7.9
Wollongong	6.5	85.5	4.2	0.4	3.3
Geelong	4.6	86.0	5.0	0.4	4.0
Greater Hobart	6.6	80.5	8.4	0.6	3.9
Townsville	2.6	85.9	7.2	1.5	2.7
Cairns	3.1	84.7	7.0	1.2	4.0
Greater Darwin	5.0	82.2	8.5	1.3	3.0
Toowoomba	1.4	88.3	5.7	0.6	4.0
Ballarat	2.5	87.6	5.9	0.4	3.6
Bendigo	1.8	87.3	6.6	0.4	3.9
Albury - Wodonga	1.3	88.2	6.7	0.4	3.3
Launceston	2.4	86.8	7.0	0.5	3.3
2011					
Greater Sydney	22.7	67.0	5.4	0.5	4.4
Greater Melbourne	15.9	74.7	4.8	0.5	4.1
Greater Brisbane	14.7	75.5	4.7	0.6	4.6
Greater Perth	12.4	78.5	3.9	1.3	3.9
Greater Adelaide	10.1	81.4	4.1	0.7	3.7
Gold Coast - Tweed Heads	4.5	84.6	4.2	0.7	6.0
Newcastle - Maitland	3.5	88.8	3.9	0.4	3.3
Canberra - Queanbeyan	7.5	82.0	7.0	0.5	3.0
Sunshine Coast	2.5	84.1	4.6	0.9	7.9
Wollongong	6.8	85.5	3.9	0.4	3.3
Geelong	6.0	85.0	4.4	0.4	4.1
Greater Hobart	6.7	81.2	7.4	0.6	4.1
Townsville	2.6	88.2	5.5	1.1	2.6
Cairns	3.2	84.6	6.6	1.4	4.2
Greater Darwin	4.9	82.3	8.4	1.3	3.0
Toowoomba	1.3	89.3	4.9	0.6	3.9
Ballarat	4.0	86.9	4.9	0.5	3.7
Bendigo	2.8	87.9	5.2	0.4	3.6
Albury - Wodonga	1.3	89.3	5.7	0.6	3.2
Launceston	2.8	86.9	6.2	0.6	3.5

(continued)

Transport mode shares for journey to work by major urban area (continued)

Major Urban Area	Public per cent	Private per cent	Active per cent	Other per cent	Work from home per cent
2016					
Greater Sydney	25.3	64.1	5.2	0.6	4.8
Greater Melbourne	17.6	72.4	4.9	0.5	4.6
Greater Brisbane	13.2	76.6	4.5	0.6	5.1
Greater Perth	11.8	79.0	3.5	1.4	4.3
Greater Adelaide	10.2	81.3	3.8	0.7	4.0
Gold Coast - Tweed Heads	4.6	84.2	3.8	0.8	6.6
Newcastle - Maitland	3.2	88.8	3.7	0.4	3.9
Canberra - Queanbeyan	7.7	80.9	7.5	0.6	3.3
Sunshine Coast	2.7	84.1	3.7	1.0	8.4
Wollongong	7.3	84.8	3.5	0.5	3.9
Geelong	6.3	84.6	3.9	0.5	4.7
Greater Hobart	6.4	80.8	7.6	0.6	4.5
Townsville	2.1	89.4	4.8	0.9	2.8
Cairns	3.1	85.7	5.8	1.3	4.1
Greater Darwin	8.9	80.7	6.7	1.1	2.7
Toowoomba	1.2	89.6	4.2	0.6	4.4
Ballarat	4.0	87.3	4.1	0.4	4.2
Bendigo	2.6	88.8	4.6	0.4	3.6
Albury - Wodonga	1.2	90.0	5.0	0.5	3.3
Launceston	2.5	87.3	6.1	0.6	3.5

Source: ABS 2017, Customised report, Census of Population and Housing, Australia

The major urban areas of Sydney, Melbourne, Brisbane, Adelaide, Perth, Hobart and Darwin are based on the 2016 ASGS Greater Capital City Statistical Area (GCCSA) classification. All other major urban areas are based on the 2016 ASGS Significant Urban Area (SUA) classification.

Data based on place of usual residence.

Private vehicle includes car as driver, car as passenger, truck, motorbike/scooter.

Public transport includes train, bus, ferry, tram, taxi.

Active travel includes bicycle and walking.

Other includes all other forms of transport not listed above.

Calculation excludes Not Stated category from the denominator.

Figures in table may not sum to 100% due to rounding.

Table C 2.1.1.c Transport mode shares for journey to work by sub-state region

<i>Sub-State Region</i>	<i>Public per cent</i>	<i>Private per cent</i>	<i>Active per cent</i>	<i>Other per cent</i>	<i>Work from home per cent</i>
2006					
New South Wales	14.5	73.7	5.8	0.6	5.4
Greater Sydney	20.8	68.9	5.4	0.5	4.4
Central Coast	10.5	80.8	3.0	0.5	5.3
Sydney - Baulkham Hills and Hawkesbury	10.0	80.6	2.0	0.4	7.0
Sydney - Blacktown	17.7	77.3	2.3	0.4	2.3
Sydney - City and Inner South	32.7	40.9	21.5	0.9	4.0
Sydney - Eastern Suburbs	30.3	54.3	9.0	0.7	5.6
Sydney - Inner South West	24.0	69.3	3.6	0.5	2.7
Sydney - Inner West	31.4	58.2	5.6	0.5	4.3
Sydney - North Sydney and Hornsby	29.8	55.4	7.4	0.5	6.9
Sydney - Northern Beaches	17.0	70.6	5.0	0.5	6.9
Sydney - Outer South West	14.4	79.9	2.1	0.4	3.2
Sydney - Outer West and Blue Mountains	11.5	80.4	3.3	0.5	4.2
Sydney - Parramatta	21.8	70.7	4.3	0.5	2.7
Sydney - Ryde	23.5	67.0	4.1	0.5	4.9
Sydney - South West	13.4	80.3	2.9	0.6	2.9
Sydney - Sutherland	15.6	76.5	3.2	0.4	4.3
Rest of New South Wales	2.2	83.2	6.5	0.7	7.4
Capital Region	1.5	82.8	6.8	0.8	8.1
Central West	1.2	80.6	7.7	0.9	9.6
Coffs Harbour - Grafton	1.1	83.1	7.2	0.7	7.9
Far West and Orana	1.2	77.5	10.1	1.2	10.1
Hunter Valley exc Newcastle	1.8	87.2	4.6	0.5	5.8
Illawarra	6.4	85.4	4.3	0.4	3.6
Mid North Coast	1.0	83.6	6.5	0.7	8.1
Murray	0.9	79.8	8.5	0.8	10.0
New England and North West	1.1	78.3	8.1	1.0	11.6
Newcastle and Lake Macquarie	4.0	87.2	4.7	0.4	3.7
Richmond - Tweed	1.3	83.0	6.3	0.6	8.7
Riverina	1.0	80.8	8.3	1.2	8.6
Southern Highlands and Shoalhaven	1.9	83.6	5.6	0.8	8.2
Victoria	10.9	78.0	5.3	0.5	5.3
Greater Melbourne	13.7	76.9	4.7	0.4	4.2
Melbourne - Inner	26.4	52.9	15.7	0.5	4.5
Melbourne - Inner East	17.3	72.4	4.2	0.4	5.7
Melbourne - Inner South	16.7	73.4	4.1	0.4	5.3
Melbourne - North East	11.9	81.2	2.8	0.4	3.6
Melbourne - North West	10.4	84.0	2.1	0.5	2.9
Melbourne - Outer East	8.7	83.9	2.4	0.4	4.7
Melbourne - South East	9.8	83.6	2.4	0.5	3.8
Melbourne - West	12.6	81.9	2.4	0.4	2.6
Mornington Peninsula	5.0	86.0	3.2	0.6	5.3
Rest of Victoria	1.9	81.5	7.3	0.7	8.6
Ballarat	2.3	85.2	5.6	0.6	6.4
Bendigo	2.2	83.5	6.6	0.5	7.2
Geelong	4.4	85.5	4.9	0.4	4.8
Hume	1.3	80.1	8.8	0.8	8.9

(continued)

Transport mode shares for journey to work by sub-state region (continued)

<i>Sub-State Region</i>	<i>Public per cent</i>	<i>Private per cent</i>	<i>Active per cent</i>	<i>Other per cent</i>	<i>Work from home per cent</i>
2006					
Latrobe - Gippsland	1.4	82.2	6.5	0.9	9.0
North West	1.0	76.6	9.7	1.1	11.6
Shepparton	0.6	79.3	8.9	0.7	10.4
Warrnambool and South West	0.8	76.4	9.0	0.9	13.0
Queensland	7.9	79.6	5.9	0.7	5.9
Greater Brisbane	13.3	77.0	4.5	0.5	4.7
Brisbane - East	9.7	81.8	2.9	0.5	5.0
Brisbane - North	16.9	75.2	3.6	0.5	3.8
Brisbane - South	17.2	74.2	3.7	0.4	4.4
Brisbane - West	17.9	70.9	5.1	0.5	5.7
Brisbane Inner City	21.6	60.1	12.9	0.5	4.9
Ipswich	8.2	83.6	3.1	0.5	4.6
Logan - Beaudesert	6.8	86.1	2.3	0.5	4.3
Moreton Bay - North	7.6	83.1	3.6	0.6	5.1
Moreton Bay - South	12.1	80.7	2.2	0.5	4.6
Rest of Queensland	2.6	82.2	7.1	1.0	7.0
Cairns	2.8	81.7	8.4	1.2	5.9
Darling Downs - Maranoa	1.0	72.7	9.4	1.2	15.7
Central Queensland	2.7	83.4	7.1	0.8	6.0
Gold Coast	3.7	85.0	4.4	0.6	6.3
Mackay - Isaac - Whitsunday	3.3	82.0	7.5	1.1	6.0
Queensland - Outback	2.2	61.5	24.0	2.3	10.0
<i>Far North</i>	1.8	48.7	38.8	2.6	8.2
<i>Outback - North</i>	3.6	71.9	15.8	2.0	6.7
<i>Outback - South</i>	0.6	61.9	18.1	2.5	16.9
Sunshine Coast	2.5	83.5	4.9	0.7	8.4
Toowoomba	1.4	88.0	5.5	0.6	4.5
Townsville	2.9	83.9	7.4	1.5	4.3
Wide Bay	1.5	82.6	6.9	0.8	8.1
South Australia	7.8	80.8	5.5	0.8	5.2
Greater Adelaide	9.7	81.5	4.5	0.6	3.7
Adelaide - Central and Hills	9.5	76.8	7.7	0.6	5.3
Adelaide - North	9.4	84.7	2.5	0.6	2.7
Adelaide - South	9.8	82.3	3.6	0.6	3.7
Adelaide - West	10.4	80.9	5.1	0.6	2.9
Rest of South Australia	1.2	78.5	8.8	1.2	10.4
Barossa - Yorke - Mid North	1.1	76.5	8.9	1.3	12.3
South Australia - Outback	2.1	77.9	11.6	1.1	7.3
<i>Eyre Peninsula and South West</i>	1.5	79.2	9.6	1.0	8.7
<i>Outback - North and East</i>	3.2	75.3	15.8	1.2	4.5
South Australia - South East	0.8	79.8	7.5	1.1	10.7
Western Australia	8.6	80.1	5.1	1.2	5.1
Greater Perth	10.0	81.2	3.6	1.0	4.1
Mandurah	3.2	87.1	3.3	1.3	5.0
Perth - Inner	14.1	68.5	10.6	0.7	6.0
Perth - North East	9.4	82.7	3.0	0.9	4.0

(continued)

Transport mode shares for journey to work by sub-state region (continued)

<i>Sub-State Region</i>	<i>Public</i>	<i>Private</i>	<i>Active</i>	<i>Other</i>	<i>Work from home</i>
	<i>per cent</i>	<i>per cent</i>	<i>per cent</i>	<i>per cent</i>	<i>per cent</i>
2006					
Perth - North West	10.6	82.4	2.3	0.9	3.8
Perth - South East	10.6	81.6	3.2	0.9	3.8
Perth - South West	8.1	83.2	3.4	1.4	3.9
Rest of Western Australia	3.3	76.5	10.0	1.5	8.7
Bunbury	1.8	85.0	5.1	0.9	7.3
Western Australia - Wheat Belt	1.5	71.6	9.8	2.0	15.1
Western Australia - Outback (North)	8.0	68.2	18.5	1.8	3.5
<i>Kimberley</i>	3.3	59.0	29.2	2.8	5.7
<i>East Pilbara</i>	6.8	74.8	15.2	1.3	1.9
<i>West Pilbara</i>	14.6	74.2	8.2	1.0	2.0
Western Australia - Outback (South)	4.1	76.8	10.8	1.6	6.6
<i>Esperance</i>	3.1	74.7	9.2	1.4	11.7
<i>Gascoyne</i>	3.2	63.5	22.4	2.2	8.7
<i>Goldfields</i>	6.3	79.1	10.9	1.2	2.4
<i>Mid West</i>	2.7	78.3	8.9	1.9	8.2
Tasmania	3.8	82.5	7.5	0.7	5.5
Greater Hobart	6.6	80.5	8.4	0.6	3.9
Rest of Tasmania	1.5	84.1	6.8	0.9	6.8
Launceston and North East	1.8	84.5	6.9	0.7	6.0
South East	1.7	79.0	6.7	1.2	11.4
West and North West	1.1	85.0	6.6	0.9	6.3
Northern Territory	5.1	73.2	16.8	1.4	3.5
Greater Darwin	5.0	82.2	8.5	1.3	3.0
Rest of Northern Territory	5.2	59.0	30.3	1.3	4.3
Northern Territory - Outback	5.2	59.0	30.3	1.3	4.3
<i>Alice Springs</i>	4.5	69.8	20.8	1.0	3.8
<i>Barkly</i>	3.1	47.8	40.5	3.1	5.4
<i>Daly - Tiwi - West Arnhem</i>	5.7	37.3	49.3	1.3	6.4
<i>East Arnhem</i>	12.6	49.0	34.9	1.0	2.5
<i>Katherine</i>	1.8	57.7	33.9	1.7	4.8
Australian Capital Territory	8.0	80.9	7.2	0.5	3.4
Australian Capital Cities	14.8	75.5	4.9	0.6	4.2
Australian Rest of States	2.3	81.6	7.5	0.9	7.7

(continued)

Transport mode shares for journey to work by sub-state region (continued)

<i>Sub-State Region</i>	<i>Public per cent</i>	<i>Private per cent</i>	<i>Active per cent</i>	<i>Other per cent</i>	<i>Work from home per cent</i>
2011					
New South Wales	15.9	73.0	5.4	0.6	5.1
Greater Sydney	22.7	67.0	5.4	0.5	4.4
Central Coast	10.4	81.3	2.5	0.5	5.2
Sydney - Baulkham Hills and Hawkesbury	12.9	78.0	1.8	0.5	6.8
Sydney - Blacktown	19.8	75.7	1.8	0.4	2.3
Sydney - City and Inner South	34.8	36.9	23.6	0.7	4.0
Sydney - Eastern Suburbs	31.3	52.7	9.5	0.6	5.8
Sydney - Inner South West	26.0	67.6	3.1	0.5	2.7
Sydney - Inner West	33.5	55.8	5.6	0.5	4.6
Sydney - North Sydney and Hornsby	32.2	53.0	7.3	0.6	6.9
Sydney - Northern Beaches	18.6	68.7	4.9	0.6	7.3
Sydney - Outer South West	14.3	80.6	1.7	0.4	3.0
Sydney - Outer West and Blue Mountains	11.9	80.7	2.8	0.4	4.2
Sydney - Parramatta	25.0	68.1	3.8	0.5	2.6
Sydney - Ryde	27.2	63.3	4.4	0.4	4.7
Sydney - South West	14.2	80.1	2.5	0.5	2.7
Sydney - Sutherland	16.8	75.5	2.8	0.4	4.5
Rest of New South Wales	2.3	84.9	5.5	0.7	6.6
Capital Region	1.5	84.7	5.6	0.8	7.3
Central West	1.5	83.3	6.2	0.9	8.2
Coffs Harbour - Grafton	1.1	84.6	6.4	0.7	7.2
Far West and Orana	1.2	80.5	8.4	1.0	8.9
Hunter Valley exc Newcastle	1.8	88.9	3.8	0.5	4.9
Illawarra	6.7	85.5	4.0	0.4	3.4
Mid North Coast	1.1	85.3	5.6	0.7	7.4
Murray	1.0	83.0	6.7	0.9	8.4
New England and North West	1.0	81.5	6.6	1.0	9.9
Newcastle and Lake Macquarie	3.9	87.8	4.3	0.4	3.6
Richmond - Tweed	1.5	83.5	5.9	0.8	8.3
Riverina	0.9	83.6	7.0	1.2	7.3
Southern Highlands and Shoalhaven	2.0	84.9	4.9	0.7	7.4
Victoria	12.9	76.6	5.1	0.6	4.9
Greater Melbourne	15.9	74.7	4.8	0.5	4.1
Melbourne - Inner	29.9	47.8	17.2	0.6	4.6
Melbourne - Inner East	20.0	69.3	4.5	0.5	5.7
Melbourne - Inner South	19.1	70.9	4.1	0.4	5.5
Melbourne - North East	14.0	79.2	2.7	0.5	3.6
Melbourne - North West	12.5	82.1	1.9	0.5	3.0
Melbourne - Outer East	9.9	83.0	2.0	0.4	4.6
Melbourne - South East	11.6	82.5	2.0	0.5	3.5
Melbourne - West	15.0	79.4	2.3	0.5	2.7
Mornington Peninsula	5.4	86.1	2.9	0.6	5.1
Rest of Victoria	2.7	83.0	6.1	0.8	7.3
Ballarat	3.6	85.0	4.8	0.6	5.9
Bendigo	3.8	83.8	5.5	0.5	6.5
Geelong	5.7	84.8	4.4	0.5	4.6
Hume	1.7	81.7	7.6	0.8	8.1
Latrobe - Gippsland	2.0	83.7	5.6	1.0	7.7

(continued)

Transport mode shares for journey to work by sub-state region (continued)

<i>Sub-State Region</i>	<i>Public per cent</i>	<i>Private per cent</i>	<i>Active per cent</i>	<i>Other per cent</i>	<i>Work from home per cent</i>
2011					
North West	1.1	80.2	8.2	1.2	9.3
Shepparton	0.9	83.7	6.7	0.6	8.0
Warrnambool and South West	1.0	79.5	8.0	1.0	10.6
Queensland	8.9	79.4	5.4	0.8	5.5
Greater Brisbane	14.7	75.5	4.7	0.6	4.6
Brisbane - East	10.7	81.1	2.5	0.6	5.1
Brisbane - North	19.0	73.0	3.7	0.5	3.8
Brisbane - South	19.6	71.6	4.1	0.5	4.2
Brisbane - West	19.8	68.0	5.8	0.5	5.9
Brisbane Inner City	23.6	56.6	14.2	0.6	5.0
Ipswich	8.9	83.7	2.6	0.6	4.1
Logan - Beaudesert	7.9	85.5	2.0	0.6	4.0
Moreton Bay - North	8.3	82.9	3.3	0.7	4.8
Moreton Bay - South	12.8	79.9	2.0	0.5	4.7
Rest of Queensland	3.1	83.3	6.1	1.0	6.5
Cairns	2.8	82.7	7.3	1.4	5.8
Darling Downs - Maranoa	0.9	76.6	8.3	1.2	13.0
Central Queensland	3.6	84.6	5.7	0.7	5.4
Gold Coast	4.6	84.3	4.2	0.7	6.2
Mackay - Isaac - Whitsunday	4.0	83.3	6.5	1.1	5.1
Queensland - Outback	2.6	65.2	20.5	2.3	9.3
<i>Far North</i>	3.3	54.1	31.9	2.1	8.5
<i>Outback - North</i>	3.5	74.2	14.3	2.4	5.6
<i>Outback - South</i>	0.6	64.0	17.2	2.4	15.8
Sunshine Coast	2.7	83.6	4.6	0.9	8.3
Toowoomba	1.3	89.1	4.8	0.6	4.3
Townsville	2.9	86.2	6.0	1.2	3.8
Wide Bay	1.7	84.3	5.8	0.9	7.3
South Australia	8.2	81.4	4.8	0.8	4.8
Greater Adelaide	10.1	81.4	4.1	0.7	3.7
Adelaide - Central and Hills	10.3	76.0	7.6	0.7	5.4
Adelaide - North	9.4	85.1	2.2	0.7	2.6
Adelaide - South	9.6	82.6	3.2	0.8	3.8
Adelaide - West	11.6	80.4	4.4	0.7	3.0
Rest of South Australia	1.5	81.2	7.3	1.2	8.8
Barossa - Yorke - Mid North	1.1	80.1	7.2	1.3	10.2
South Australia - Outback	3.3	79.5	9.6	1.4	6.3
<i>Eyre Peninsula and South West</i>	2.4	81.3	7.6	1.1	7.6
<i>Outback - North and East</i>	5.1	75.8	13.5	1.9	3.7
South Australia - South East	0.9	82.6	6.2	1.1	9.1
Western Australia	11.0	77.9	5.0	1.5	4.6
Greater Perth	12.4	78.5	3.9	1.3	3.9
Mandurah	8.4	81.9	3.2	2.0	4.5
Perth - Inner	17.7	63.7	12.2	1.0	5.4
Perth - North East	10.5	81.5	3.0	1.2	3.8
Perth - North West	12.1	80.4	2.5	1.3	3.8
Perth - South East	12.5	79.5	3.2	1.2	3.5
Perth - South West	12.1	79.2	3.4	1.4	3.8

(continued)

Transport mode shares for journey to work by sub-state region (continued)

<i>Sub-State Region</i>	<i>Public</i> <i>per cent</i>	<i>Private</i> <i>per cent</i>	<i>Active</i> <i>per cent</i>	<i>Other</i> <i>per cent</i>	<i>Work from</i> <i>home</i> <i>per cent</i>
2011					
Rest of Western Australia	5.9	76.2	8.7	2.3	6.9
Bunbury	3.7	83.9	4.8	1.2	6.4
Western Australia - Wheat Belt	2.4	74.2	8.6	2.3	12.6
Western Australia - Outback (North)	14.6	65.1	14.2	3.7	2.5
<i>Kimberley</i>	3.9	65.6	23.4	2.5	4.5
<i>East Pilbara</i>	16.0	67.5	10.4	4.7	1.5
<i>West Pilbara</i>	22.1	62.8	9.8	3.7	1.6
Western Australia - Outback (South)	5.1	77.8	9.3	2.4	5.5
<i>Esperance</i>	3.2	77.6	7.2	1.7	10.2
<i>Gascoyne</i>	3.9	65.8	18.6	2.4	9.3
<i>Goldfields</i>	7.2	79.7	9.2	2.0	2.0
<i>Mid West</i>	4.2	78.2	8.3	2.9	6.4
Tasmania	4.0	83.5	6.5	0.8	5.2
Greater Hobart	6.7	81.2	7.4	0.6	4.1
Rest of Tasmania	1.9	85.4	5.8	0.8	6.1
Launceston and North East	2.1	85.4	6.1	0.7	5.7
South East	2.2	81.6	5.3	1.1	9.8
West and North West	1.4	86.6	5.6	0.9	5.4
Northern Territory	4.9	75.1	15.4	1.5	3.1
Greater Darwin	4.9	82.3	8.4	1.3	3.0
Rest of Northern Territory	4.8	62.6	27.8	1.5	3.4
Northern Territory - Outback	4.8	62.6	27.8	1.5	3.4
<i>Alice Springs</i>	4.4	72.7	18.7	1.3	2.9
<i>Barkly</i>	1.1	55.8	37.0	1.9	4.1
<i>Daly - Tiwi - West Arnhem</i>	6.7	43.2	44.3	1.7	4.2
<i>East Arnhem</i>	9.7	51.7	35.2	1.6	1.8
<i>Katherine</i>	1.8	62.8	29.2	1.5	4.8
Australian Capital Territory	8.0	81.0	7.4	0.5	3.1
Australian Capital Cities	16.4	73.8	4.9	0.6	4.2
Australian Rest of States	2.9	83.0	6.4	1.0	6.8

(continued)

Transport mode shares for journey to work by sub-state region (continued)

<i>Sub-State Region</i>	<i>Public per cent</i>	<i>Private per cent</i>	<i>Active per cent</i>	<i>Other per cent</i>	<i>Work from home per cent</i>
2016					
New South Wales	18.0	71.0	5.1	0.6	5.3
Greater Sydney	25.3	64.1	5.2	0.6	4.8
Central Coast	10.1	81.4	2.2	0.5	5.8
Sydney - Baulkham Hills and Hawkesbury	16.1	74.8	1.6	0.5	7.0
Sydney - Blacktown	21.8	73.5	1.4	0.5	2.8
Sydney - City and Inner South	39.7	32.8	22.4	0.9	4.2
Sydney - Eastern Suburbs	33.3	49.9	9.7	0.7	6.4
Sydney - Inner South West	29.4	63.8	3.1	0.6	3.2
Sydney - Inner West	37.9	51.1	5.6	0.6	4.8
Sydney - North Sydney and Hornsby	36.3	49.1	6.9	0.6	7.2
Sydney - Northern Beaches	20.2	66.5	4.8	0.6	7.8
Sydney - Outer South West	14.7	80.0	1.4	0.4	3.5
Sydney - Outer West and Blue Mountains	12.2	80.6	2.3	0.5	4.4
Sydney - Parramatta	27.9	64.9	3.4	0.6	3.1
Sydney - Ryde	31.5	58.6	4.3	0.5	5.1
Sydney - South West	15.3	79.0	2.2	0.5	3.1
Sydney - Sutherland	19.0	72.8	2.8	0.4	5.0
Rest of New South Wales	2.3	85.7	4.7	0.7	6.6
Capital Region	1.5	85.6	5.0	0.9	7.1
Central West	1.1	85.0	5.4	0.7	7.9
Coffs Harbour - Grafton	0.9	86.4	5.1	0.8	6.9
Far West and Orana	1.0	83.0	6.9	1.0	8.1
Hunter Valley exc Newcastle	1.6	89.6	3.1	0.6	5.1
Illawarra	7.1	84.8	3.5	0.5	4.1
Mid North Coast	1.0	86.6	4.7	0.7	7.0
Murray	0.9	84.8	5.9	0.9	7.5
New England and North West	1.1	83.1	5.7	0.8	9.4
Newcastle and Lake Macquarie	3.6	87.6	4.1	0.5	4.2
Richmond - Tweed	1.4	83.9	5.0	0.8	8.8
Riverina	0.8	85.8	5.8	1.0	6.7
Southern Highlands and Shoalhaven	2.1	85.0	4.2	0.7	7.9
Victoria	14.3	75.0	5.0	0.6	5.2
Greater Melbourne	17.6	72.4	4.9	0.5	4.6
Melbourne - Inner	32.5	43.8	18.1	0.7	5.1
Melbourne - Inner East	21.7	66.9	4.5	0.5	6.4
Melbourne - Inner South	20.4	68.8	4.0	0.6	6.3
Melbourne - North East	15.9	77.0	2.5	0.5	4.1
Melbourne - North West	14.2	80.0	1.7	0.6	3.6
Melbourne - Outer East	11.0	81.9	1.8	0.4	4.9
Melbourne - South East	12.1	81.7	1.8	0.6	3.9
Melbourne - West	17.4	76.5	2.2	0.6	3.3
Mornington Peninsula	4.9	86.4	2.6	0.6	5.7
Rest of Victoria	2.8	84.2	5.3	0.7	7.1
Ballarat	3.7	85.5	4.2	0.5	6.1
Bendigo	3.7	84.6	4.8	0.5	6.4
Geelong	5.9	84.5	3.9	0.5	5.2
Hume	1.7	83.3	6.7	0.8	7.6
Latrobe - Gippsland	1.9	85.2	4.7	0.8	7.3

(continued)

Transport mode shares for journey to work by sub-state region (continued)

<i>Sub-State Region</i>	<i>Public</i>	<i>Private</i>	<i>Active</i>	<i>Other</i>	<i>Work from home</i>
	<i>per cent</i>	<i>per cent</i>	<i>per cent</i>	<i>per cent</i>	<i>per cent</i>
2016					
North West	0.8	82.6	7.1	1.0	8.5
Shepparton	0.8	85.4	5.8	0.7	7.3
Warrnambool and South West	0.9	81.3	7.0	0.9	9.9
Queensland	8.2	80.3	4.8	0.8	5.9
Greater Brisbane	13.2	76.6	4.5	0.6	5.1
Brisbane - East	9.5	81.9	2.3	0.7	5.6
Brisbane - North	17.5	74.2	3.3	0.6	4.4
Brisbane - South	17.8	72.8	4.1	0.6	4.8
Brisbane - West	17.4	69.3	5.9	0.6	6.8
Brisbane Inner City	21.7	57.2	14.5	0.8	5.8
Ipswich	8.1	84.8	2.1	0.6	4.3
Logan - Beaudesert	6.5	86.9	1.6	0.6	4.4
Moreton Bay - North	7.0	84.4	2.7	0.7	5.2
Moreton Bay - South	10.7	81.5	1.8	0.6	5.3
Rest of Queensland	3.1	84.0	5.2	1.0	6.7
Cairns	3.0	83.9	6.3	1.3	5.5
Darling Downs - Maranoa	0.8	78.2	7.1	1.2	12.7
Central Queensland	4.6	84.1	4.7	0.8	5.7
Gold Coast	4.8	83.9	3.8	0.8	6.7
Mackay - Isaac - Whitsunday	3.7	83.8	6.0	1.2	5.4
Queensland - Outback	1.8	69.7	17.4	2.1	8.9
<i>Far North</i>	2.4	63.0	24.2	2.8	7.7
<i>Outback - North</i>	2.3	77.7	13.0	1.5	5.4
<i>Outback - South</i>	0.5	65.3	15.9	2.3	16.1
Sunshine Coast	2.8	83.8	3.8	1.0	8.7
Toowoomba	1.1	89.6	4.1	0.6	4.6
Townsville	2.2	87.6	5.3	1.0	3.9
Wide Bay	1.6	85.5	4.9	0.8	7.2
South Australia	8.4	81.6	4.3	0.8	5.0
Greater Adelaide	10.2	81.3	3.8	0.7	4.0
Adelaide - Central and Hills	10.4	75.5	7.4	0.7	6.0
Adelaide - North	9.4	85.3	1.8	0.7	2.8
Adelaide - South	9.9	82.4	2.8	0.7	4.3
Adelaide - West	12.0	80.2	3.8	0.7	3.3
Rest of South Australia	1.4	83.0	6.1	1.1	8.4
Barossa - Yorke - Mid North	1.1	81.9	6.1	1.2	9.7
South Australia - Outback	2.8	81.3	8.3	1.2	6.3
<i>Eyre Peninsula and South West</i>	2.6	82.8	6.6	0.9	7.1
<i>Outback - North and East</i>	3.4	77.9	12.2	1.9	4.6
South Australia - South East	0.9	84.3	5.2	1.0	8.5
Western Australia	10.6	78.8	4.2	1.5	4.8
Greater Perth	11.8	79.0	3.5	1.4	4.3
Mandurah	8.3	82.1	2.5	2.3	4.8
Perth - Inner	17.6	62.9	12.2	1.1	6.3
Perth - North East	10.3	81.6	2.7	1.3	4.0
Perth - North West	11.5	80.8	2.1	1.3	4.3
Perth - South East	11.5	80.8	2.7	1.3	3.7
Perth - South West	11.8	79.4	3.0	1.6	4.3

(continued)

Transport mode shares for journey to work by sub-state region (continued)

<i>Sub-State Region</i>	<i>Public</i>	<i>Private</i>	<i>Active</i>	<i>Other</i>	<i>Work from home</i>
	<i>per cent</i>	<i>per cent</i>	<i>per cent</i>	<i>per cent</i>	<i>per cent</i>
2016					
Rest of Western Australia	5.8	78.2	7.3	2.1	6.7
Bunbury	2.8	84.8	4.4	1.4	6.5
Western Australia - Wheat Belt	2.0	76.9	7.7	1.9	11.5
Western Australia - Outback (North)	17.2	66.2	10.7	3.6	2.2
<i>Kimberley</i>	2.1	74.2	18.0	1.8	3.8
<i>East Pilbara</i>	14.9	69.7	8.4	5.8	1.3
<i>West Pilbara</i>	29.7	58.0	7.1	3.5	1.6
Western Australia - Outback (South)	4.6	80.4	7.8	1.8	5.4
<i>Esperance</i>	2.5	79.4	6.7	1.3	10.0
<i>Gascoyne</i>	2.7	68.5	18.9	2.2	7.7
<i>Goldfields</i>	7.2	82.5	6.8	1.5	1.9
<i>Mid West</i>	3.4	81.1	7.0	2.2	6.4
Tasmania	3.8	83.7	6.4	0.7	5.4
Greater Hobart	6.4	80.8	7.6	0.6	4.5
Rest of Tasmania	1.6	86.1	5.3	0.8	6.1
Launceston and North East	1.8	85.9	5.9	0.8	5.6
South East	1.9	82.2	4.9	1.0	10.0
West and North West	1.2	87.7	4.7	0.9	5.4
Northern Territory	7.4	76.5	12.0	1.3	2.8
Greater Darwin	8.9	80.7	6.7	1.1	2.7
Rest of Northern Territory	3.7	67.4	24.1	1.6	3.2
Northern Territory - Outback	3.7	67.4	24.1	1.6	3.2
<i>Alice Springs</i>	3.8	73.9	18.6	1.1	2.6
<i>Barkly</i>	1.1	56.3	35.0	2.3	5.3
<i>Daly - Tiwi - West Arnhem</i>	6.4	50.3	36.1	2.4	4.8
<i>East Arnhem</i>	5.4	60.7	31.8	1.0	1.2
<i>Katherine</i>	1.6	69.0	22.9	2.3	4.2
Australian Capital Territory	8.2	79.9	7.9	0.6	3.4
Australian Capital Cities	17.6	72.3	4.8	0.7	4.6
Australian Rest of States	2.8	84.1	5.4	0.9	6.7

Source: ABS 2017, Customised report, Census of Population and Housing, Australia

Sub-state regions are SA4 (2016 ASGS), italicised regions are SA3 (2016 ASGS).

Data based on place of usual residence.

Private vehicle includes car as driver, car as passenger, truck, motorbike/scooter.

Public transport includes train, bus, ferry, tram, taxi.

Active travel includes bicycle and walking.

Other includes all other forms of transport not listed above.

Calculation excludes Not Stated category from the denominator.

Figures in table may not sum to 100% due to rounding.

C 2.1.2 Passengers through airports

This indicator provides a measure of how many people are travelling through the top 50 airports, including both domestic and international travellers. Data reflects passengers travelling on regular public transport (RPT) services including both arrivals and departures. In this context, regular public transport refers to airline services open to the general public with fixed schedules over specific routes.

Table C 2.1.2.a Number of passengers through top 50 airports

Airport	Remoteness Class	Sub State Region	2008	2013	2018	2008-2018
			passengers ('000)	passengers ('000)	passengers ('000)	change in passengers ('000)
Sydney	Major Cities	Sydney - City and Inner South	32,901	38,151	44,430	11,529
Melbourne	Major Cities	Melbourne - North West	24,568	30,220	36,917	12,349
Brisbane	Major Cities	Brisbane - North	18,583	21,445	23,467	4,883
Perth	Major Cities	Perth - South East	9,238	12,902	12,478	3,240
Adelaide	Major Cities	Adelaide - West	6,750	7,374	8,346	1,596
Gold Coast	Major Cities	Richmond - Tweed	4,522	5,767	6,486	1,964
Cairns	Outer Regional	Cairns	3,749	4,246	4,946	1,197
Canberra	Major Cities	Australian Capital Territory	2,983	2,956	3,248	265
Hobart	Inner Regional	Hobart	1,831	2,092	2,677	846
Darwin	Outer Regional	Darwin	1,597	1,977	1,972	375
Townsville	Outer Regional	Townsville	1,412	1,557	1,610	199
Launceston	Inner Regional	Launceston and North East	1,127	1,257	1,382	254
Newcastle	Inner Regional	Hunter Valley exc Newcastle	1,147	1,207	1,254	107
Sunshine Coast	Major Cities	Sunshine Coast	951	867	1,235	284
Mackay	Inner Regional	Mackay - Isaac - Whitsunday	919	1,103	808	-111
Alice Springs	Remote	Northern Territory - Outback	651	655	621	-29
Rockhampton	Inner Regional	Central Queensland	710	697	552	-158
Ballina	Inner Regional	Richmond - Tweed	319	382	538	219
Proserpine	Outer Regional	Mackay - Isaac - Whitsunday	246	234	449	202
Karratha	Remote	Western Australia - Outback (North)	445	771	441	-4
Hamilton Island	Remote	Mackay - Isaac - Whitsunday	444	465	427	-17
Ayers Rock	Very Remote	Northern Territory - Outback	338	233	416	78
Broome	Remote	Western Australia - Outback (North)	378	414	416	38
Coffs Harbour	Inner Regional	Coffs Harbour - Grafton	331	387	403	72
Port Hedland	Remote	Western Australia - Outback (North)	206	484	380	174
Newman	Very Remote	Western Australia - Outback (North)	155	450	306	151
Kalgoorlie	Outer Regional	Western Australia - Outback (South)	265	241	289	24
Albury	Inner Regional	Murray	278	259	257	-21
Gladstone	Inner Regional	Central Queensland	198	495	253	55
Mildura	Outer Regional	North West	173	218	242	69
Wagga Wagga	Inner Regional	Riverina	220	209	216	-4
Port Macquarie	Inner Regional	Mid North Coast	170	228	215	45
Dubbo	Inner Regional	Far West and Orana	185	176	206	21
Mount Isa	Remote	Queensland - Outback	191	254	202	12
Emerald	Outer Regional	Central Queensland	118	283	195	77
Tamworth	Inner Regional	New England and North West	112	158	189	77
Paraburdoo	Very Remote	Western Australia - Outback (North)	130	232	178	49
Port Lincoln	Remote	South Australia - Outback	150	190	170	20
Hervey Bay	Inner Regional	Wide Bay	218	150	164	-54
Bundaberg	Inner Regional	Wide Bay	116	153	163	47
Devonport	Outer Regional	West and North West	110	128	147	37
Armidale	Inner Regional	New England and North West	95	108	129	34
Toowoomba Wellcamp	Inner Regional	Toowoomba	-	-	128	128
Geraldton	Outer Regional	Western Australia - Outback (South)	104	128	113	9
Moranbah	Outer Regional	Mackay - Isaac - Whitsunday	12	175	104	92
Thursday Island	Very Remote	Queensland - Outback	66	92	101	35
Learmonth	Very Remote	Western Australia - Outback (South)	46	92	88	43
Mount Gambier	Outer Regional	South Australia - South East	108	81	81	-28
Weipa	Very Remote	Queensland - Outback	60	70	80	20
Roma	Outer Regional	Darling Downs - Maranoa	36	215	78	42

Source: BITRE 2019, Airport Traffic Data, from <https://bitre.gov.au/publications/ongoing/airport_traffic_data.aspx>

Regular public transport (RPT) operations only.

Data is compiled for International and Domestic (including Regional) airline RPT services, and does not include charter or other non-scheduled activity. Data is presented on Australian airports with more than 7,000 revenue passenger movements during 2018, except for Avalon Airport which is excluded for commercial-in-confidence reasons.

Each of the top 50 airports has been classified into remoteness class and sub state class.

These geographies are based on 2016 ASGS Remoteness Areas and 2016 ASGS SA4 classifications.

C 2.1.3 Dwellings with no motor vehicle

This indicator measures the proportion of dwellings with no passenger vehicle (other than a motorbike or scooter). It can provide some indication of the extent to which households in a region may encounter access difficulties through a lack of private transport. This also provides an indication of the extent to which households in a region may rely on public transport, bicycle and footpath infrastructure for travel.

Table C 2.1.3.a Dwellings with no motor vehicle by remoteness class

Remoteness Class	2006 per cent	2011 per cent	2016 per cent	2006 - 2016 change percentage points
Major Cities	10.9	9.8	8.7	-2.2
Inner Regional	7.7	6.8	5.6	-2.1
Outer Regional	7.7	6.9	5.7	-2.0
Remote	8.6	8.1	7.2	-1.4
Very Remote	19.1	17.5	17.7	-1.4
AUSTRALIA	10.0	9.0	7.9	-2.1

Source: ABS 2018, Customised report, Census of Population and Housing, Australia

Geography is based on the 2016 ASGS.

Data based on place of enumeration.

Motor vehicles includes vans and company vehicles kept at home but excludes motorcycles and scooters.

Calculation excludes Unoccupied private dwellings and Non-private dwellings.

Calculation excludes Not stated category from the denominator.

Table C 2.1.3.b Dwellings with no motor vehicle by major urban area

Major Urban Area	2006 per cent	2011 per cent	2016 per cent	2006 - 2016 change percentage points
Greater Sydney	13.9	12.7	11.6	-2.3
Greater Melbourne	10.1	9.6	9.2	-0.9
Greater Brisbane	9.1	8.1	6.8	-2.3
Greater Perth	7.3	6.5	5.1	-2.2
Greater Adelaide	10.7	9.7	8.4	-2.3
Gold Coast - Tweed Heads	8.5	7.0	5.6	-2.9
Newcastle - Maitland	11.5	9.1	7.3	-4.2
Canberra - Queanbeyan	7.3	6.5	5.7	-1.6
Sunshine Coast	7.7	6.3	4.7	-3.0
Wollongong	12.3	10.6	8.4	-3.9
Geelong	8.5	7.4	6.3	-2.2
Greater Hobart	10.4	9.4	8.3	-2.1
Townsville	7.7	6.6	5.9	-1.8
Cairns	11.1	9.6	7.7	-3.4
Greater Darwin	8.4	7.3	5.9	-2.5
Toowoomba	8.6	7.9	6.5	-2.1
Ballarat	9.6	8.3	7.1	-2.5
Bendigo	9.2	7.9	6.4	-2.8
Albury - Wodonga	9.5	8.7	7.2	-2.3
Launceston	10.6	9.9	8.9	-1.7

Source: ABS 2017, Customised report, Census of Population and Housing, Australia

The major urban areas of Sydney, Melbourne, Brisbane, Adelaide, Perth, Hobart and Darwin are based on the 2016 ASGS Greater Capital City Statistical Area (GCCSA) classification. All other major urban areas are based on the 2016 ASGS Significant Urban Area (SUA) classification.

Data based on place of enumeration.

Motor vehicles includes vans and company vehicles kept at home but excludes motorcycles and scooters.

Calculation excludes Unoccupied private dwellings and Non-private dwellings.

Calculation excludes Not Stated category from the denominator.

Table C 2.1.3.c Dwellings with no motor vehicle by sub-state region

Sub-State Region	2006 per cent	2011 per cent	2016 per cent	2006 - 2016 change percentage points
New South Wales	12.2	10.9	9.7	-2.5
Greater Sydney	13.9	12.7	11.6	-2.3
Central Coast	11.1	9.4	7.3	-3.8
Sydney - Baulkham Hills and Hawkesbury	3.0	2.7	2.5	-0.5
Sydney - Blacktown	11.6	9.5	7.3	-4.3
Sydney - City and Inner South	33.9	34.0	34.3	0.4
Sydney - Eastern Suburbs	20.8	19.4	18.3	-2.5
Sydney - Inner South West	15.6	13.5	12.4	-3.2
Sydney - Inner West	17.3	15.5	14.8	-2.5
Sydney - North Sydney and Hornsby	11.8	11.0	10.6	-1.2
Sydney - Northern Beaches	9.3	8.1	6.9	-2.4
Sydney - Outer South West	9.1	7.3	5.8	-3.3
Sydney - Outer West and Blue Mountains	9.3	7.9	6.4	-2.9
Sydney - Parramatta	15.8	13.5	11.9	-3.9
Sydney - Ryde	11.9	11.4	10.3	-1.6
Sydney - South West	12.2	10.8	8.9	-3.3
Sydney - Sutherland	8.0	6.9	5.9	-2.1
Rest of New South Wales	9.6	8.1	6.5	-3.1
Capital Region	7.3	6.2	5.1	-2.2
Central West	9.6	8.0	6.5	-3.1
Coffs Harbour - Grafton	9.1	7.8	6.1	-3.0
Far West and Orana	11.8	10.1	8.4	-3.4
Hunter Valley exc Newcastle	7.9	6.2	4.9	-3.0
Illawarra	12.0	10.4	8.3	-3.7
Mid North Coast	9.5	8.2	6.4	-3.1
Murray	8.4	8.0	6.6	-1.8
New England and North West	9.5	8.1	6.6	-2.9
Newcastle and Lake Macquarie	11.8	9.4	7.6	-4.2
Richmond - Tweed	9.2	7.9	6.0	-3.2
Riverina	8.7	7.5	5.9	-2.8
Southern Highlands and Shoalhaven	7.4	6.3	4.7	-2.7
Victoria	9.4	8.9	8.3	-1.1
Greater Melbourne	10.1	9.6	9.2	-0.9
Melbourne - Inner	22.9	23.4	25.4	2.5
Melbourne - Inner East	8.5	8.2	7.8	-0.7
Melbourne - Inner South	10.1	9.0	7.8	-2.3
Melbourne - North East	8.2	7.4	6.4	-1.8
Melbourne - North West	7.7	7.1	6.0	-1.7
Melbourne - Outer East	5.3	4.8	4.1	-1.2
Melbourne - South East	7.3	6.6	5.6	-1.7
Melbourne - West	9.3	8.0	6.6	-2.7
Mornington Peninsula	7.3	6.2	5.2	-2.1
Rest of Victoria	7.5	6.8	5.7	-1.8
Ballarat	7.9	6.9	6.0	-1.9
Bendigo	7.8	6.8	5.5	-2.3

(continued)

Dwellings with no motor vehicle by sub-state region (continued)

Sub-State Region	2006 per cent	2011 per cent	2016 per cent	2006 - 2016 change percentage points
Geelong	8.0	6.9	5.9	-2.1
Hume	6.9	6.2	5.1	-1.8
Latrobe - Gippsland	7.4	6.7	5.6	-1.8
North West	8.2	8.0	6.5	-1.7
Shepparton	7.1	6.9	5.5	-1.6
Warrnambool and South West	6.7	6.2	5.2	-1.5
Queensland	8.6	7.5	6.3	-2.3
Greater Brisbane	9.1	8.1	6.8	-2.3
Brisbane - East	7.1	6.3	4.9	-2.2
Brisbane - North	10.3	9.2	7.8	-2.5
Brisbane - South	9.9	8.7	7.1	-2.8
Brisbane - West	7.6	7.3	6.4	-1.2
Brisbane Inner City	16.5	14.8	13.5	-3.0
Ipswich	8.0	6.9	5.5	-2.5
Logan - Beaudesert	6.7	6.1	5.1	-1.6
Moreton Bay - North	8.7	7.9	6.4	-2.3
Moreton Bay - South	4.0	3.7	3.2	-0.8
Rest of Queensland	8.2	7.0	5.8	-2.4
Cairns	10.5	8.8	7.2	-3.3
Darling Downs - Maranoa	6.7	5.8	4.9	-1.8
Central Queensland	7.4	6.3	5.4	-2.0
Gold Coast	8.1	6.6	5.3	-2.8
Mackay - Isaac - Whitsunday	6.9	5.6	5.3	-1.6
Queensland - Outback	15.2	14.6	13.2	-2.0
<i>Far North</i>	25.1	24.6	21.9	-3.2
<i>Outback - North</i>	11.3	10.9	9.8	-1.5
<i>Outback - South</i>	9.6	8.6	7.2	-2.4
Sunshine Coast	7.2	5.9	4.5	-2.7
Toowoomba	8.3	7.7	6.3	-2.0
Townsville	8.0	6.8	6.1	-1.9
Wide Bay	7.8	7.3	6.1	-1.7
South Australia	10.0	9.1	7.8	-2.2
Greater Adelaide	10.7	9.7	8.4	-2.3
Adelaide - Central and Hills	10.8	10.2	9.3	-1.5
Adelaide - North	9.9	9.1	7.7	-2.2
Adelaide - South	9.1	8.0	6.9	-2.2
Adelaide - West	14.5	12.6	10.5	-4.0
Rest of South Australia	7.5	7.1	6.1	-1.4
Barossa - Yorke - Mid North	6.2	6.0	5.0	-1.2
South Australia - Outback	10.9	10.2	9.4	-1.5
<i>Eyre Peninsula and South West</i>	10.3	9.6	8.8	-1.5
<i>Outback - North and East</i>	12.1	11.6	10.7	-1.4
South Australia - South East	6.7	6.3	5.3	-1.4
Western Australia	7.2	6.4	5.2	-2.0
Greater Perth	7.3	6.5	5.1	-2.2

(continued)

Dwellings with no motor vehicle by sub-state region (continued)

Sub-State Region	2006 per cent	2011 per cent	2016 per cent	2006 - 2016 change percentage points
Mandurah	5.9	5.7	4.4	-1.5
Perth - Inner	12.7	11.8	9.6	-3.1
Perth - North East	7.1	6.1	4.8	-2.3
Perth - North West	6.0	5.2	4.2	-1.8
Perth - South East	7.4	6.4	5.0	-2.4
Perth - South West	6.9	6.1	4.8	-2.1
Rest of Western Australia	6.9	6.4	5.5	-1.4
Bunbury	5.2	4.8	3.9	-1.3
Western Australia - Wheat Belt	5.6	5.1	4.2	-1.4
Western Australia - Outback (North)	11.2	10.8	10.6	-0.6
<i>Kimberley</i>	16.3	15.6	15.6	-0.7
<i>East Pilbara</i>	9.4	8.5	7.5	-1.9
<i>West Pilbara</i>	5.2	5.3	5.3	0.1
Western Australia - Outback (South)	7.8	7.0	6.1	-1.7
<i>Esperance</i>	5.8	5.3	5.2	-0.6
<i>Gascoyne</i>	8.6	6.7	6.8	-1.8
<i>Goldfields</i>	9.2	8.5	7.0	-2.2
<i>Mid West</i>	7.2	6.5	5.5	-1.7
Tasmania	9.0	8.2	7.3	-1.7
Greater Hobart	10.4	9.4	8.3	-2.1
Rest of Tasmania	8.1	7.2	6.5	-1.6
Launceston and North East	8.7	8.0	7.1	-1.6
South East	4.7	4.0	3.3	-1.4
West and North West	8.3	7.3	6.7	-1.6
Northern Territory	14.5	12.6	11.5	-3.0
Greater Darwin	8.4	7.3	5.9	-2.5
Rest of Northern Territory	24.1	21.0	21.3	-2.8
Northern Territory - Outback	24.1	21.0	21.3	-2.8
<i>Alice Springs</i>	17.4	14.2	15.8	-1.6
<i>Barkly</i>	27.0	26.6	24.0	-3.0
<i>Daly - Tiwi - West Arnhem</i>	36.0	33.7	31.4	-4.6
<i>East Arnhem</i>	34.4	28.6	32.9	-1.5
<i>Katherine</i>	24.3	19.8	18.8	-5.5
Australian Capital Territory	7.2	6.4	5.7	-1.5
Australian Capital Cities	10.8	9.8	8.8	-2.0
Australian Rest of States	8.6	7.5	6.2	-2.4

Source: ABS 2017, Customised report, Census of Population and Housing, Australia

Sub-state regions are SA4 (2016 ASGS), italicised regions are SA3 (2016 ASGS).

Data based on place of enumeration.

Motor vehicles includes vans and company vehicles kept at home but excludes motorcycles and scooters.

Calculation excludes Unoccupied private dwellings and Non-private dwellings.

Calculation excludes Not Stated category from the denominator.

C 2.1.4 Kilometres travelled by passenger vehicles

This indicator measures road passenger vehicle use within the vehicle's state of registration. Vehicle travel outside the vehicle's state of registration is not presented in the ABS *Survey of Motor Vehicle Use*, but was around 4 per cent of the total in 2011-12. This measure includes passenger vehicles, motorcycles, light commercial vehicles and buses.⁷¹

Passenger vehicle use is a major component of the total road transport task. Changes in passenger vehicle kilometres travelled over time (alongside trends in the freight task) are important for assessing the extent of growth in the overall transport task in a region.

Table C 2.1.4.a Passenger vehicle kilometres travelled (on road) by capital city/balance of state

Capital City / Balance of State	2007-08 billion kilometres	2012-13 billion kilometres	2017-18p billion kilometres	2007-08 - 2017-18 change billion kilometres
Greater Sydney	35.6	37.8	41.6	6.0
Rest of New South Wales	27.2	28.9	32.1	4.9
Greater Melbourne	34.8	37.2	41.5	6.8
Rest of Victoria	19.2	20.5	22.7	3.5
Greater Brisbane	19.4	20.9	23.3	3.9
Rest of Queensland	25.3	26.0	28.6	3.3
Greater Adelaide	9.5	9.6	10.5	1.1
Rest of South Australia	5.3	5.5	5.9	0.6
Greater Perth	15.1	16.4	18.2	3.1
Rest of Western Australia	7.6	8.3	8.6	1.1
Greater Hobart	1.9	1.9	2.0	0.1
Rest of Tasmania	3.0	3.1	3.2	0.2
Greater Darwin	0.9	1.0	1.1	0.2
Rest of Northern Territory	0.9	0.9	0.9	0.0
Australian Capital Territory	3.5	3.7	4.1	0.6
Australian Capital Cities	120.7	128.6	142.4	21.7
Australian Rest of States	88.6	93.2	102.1	13.5
AUSTRALIA	209.2	221.8	244.5	35.2

Source: BITRE 2019, Unpublished data, Road vehicle-kilometres travelled

Vehicle kilometres travelled (VKT) estimates are based on the ABS, Australian Statistical Geography Standard (ASGS) and have been aggregated to Greater Capital Cities geographical classifications.

The total for Australia, Australian capital cities and rest of states may differ from summations of GCCSA classifications due to rounding.

Includes cars, motorcycles, light commercial vehicles and buses. Excludes articulated trucks, rigid and other trucks.

Estimates are based on the location of the road, not the start point or destination of the driver or goods.

Change may vary from annual figures due to rounding.

BITRE estimates are based on the ABS Survey of Motor Vehicle Use and Census of Motor Vehicles by smoothing VKT values with relation to location and vehicle types, and adjusted using annual fuels sales volumes from the Australian Petroleum Statistics (Department of the Environment and Energy) and BITRE fleet fuel efficiency data. For more information see BTCE 1995, Report 88, Greenhouse Gas Emissions from Australian Transport: Long-term projections; Cosgrove & Mitchell 2001, Standardised Time Series for the Australian Road Transport Task; BTRE 2007, Working Paper 71, Estimating Urban Traffic and Congestion Cost Trends for Australian Cities; BITRE 2009, Working Paper 73, Greenhouse Gas Emissions from Australian Transport: Projections to 2020; and BITRE 2010, Long-term Projections of Australian Transport Emissions: Base Case 2010.

p Preliminary estimates.

⁷¹ BITRE 2012, Research Report 127, *Traffic Growth in Australia*, Canberra.

C 2.1.5 Road speed performance

This indicator measures the average Percentage of Speed Limit (POSL) for morning peak traffic on highways and arterial roads where speed limits are greater than 50km/h. As well as impacting productivity, longer travel times reduce accessibility. Higher figures for this indicator represent better road speed performance.

Table C 2.1.5.a Road speed performance by major urban area

Major Urban Area	2018 per cent
Greater Sydney	71.5
Greater Melbourne	69.7
Greater Brisbane	75.5
Greater Perth	75.4
Greater Adelaide	73.3
Gold Coast - Tweed Heads	76.2
Newcastle - Maitland	80.2
Australian Capital Territory*	76.6
Sunshine Coast	81.8
Wollongong	76.7
Geelong	80.7
Greater Hobart	80.4
Townsville	77.3
Cairns	76.5
Greater Darwin	76.2
Toowoomba	74.9
Ballarat	76.7
Bendigo	77.2
Albury - Wodonga	81.4
Launceston	77.1

Source: Houston Kemp Economics 2019, Customised report, Measuring road speed performance for Australian capital and major cities using Here Probe data

The major urban areas of Sydney, Melbourne, Brisbane, Adelaide, Perth, Australian Capital Territory, Hobart and Darwin are based on the 2016 ASGS Greater Capital City Statistical Area (GCCSA) classification. All other major urban areas are based on the 2016 ASGS Significant Urban Area (SUA) classification.

Figures are annual AM peak (6:00AM to 9:59AM) percentage of speed limit (POSL) for highways and arterial roads where speed limits are greater than 50 km/h.

* Figures for the Australian Capital Territory are based on the 2016 ASGS GCCSA definition for this indicator.

This is an experimental indicator and BITRE is working with Houston Kemp to improve the metric, possibly by traffic weighting the POSL measures.

C 2.2 Moving freight

C 2.2.1 Road freight activity

This indicator measures road freight activity by region. Freight use represents a major component of the total road transport task. Changes over time in road freight tonne kilometres (alongside trends in the passenger vehicle task) are important for assessing the extent of growth in the overall transport task in a region.⁷²

Table C 2.2.1.a Road freight tonne kilometres by capital city/balance of state

	2008-09	2013-14	2018-19p	2008-09 - 2018-19
Capital City / Balance of State	billion tonne kilometres	billion tonne kilometres	billion tonne kilometres	change billion tonne kilometres
Greater Sydney	11.2	12.4	13.6	2.4
Rest of New South Wales	17.1	22.3	23.9	6.8
Greater Melbourne	12.0	13.8	15.3	3.3
Rest of Victoria	9.5	9.5	13.8	4.3
Greater Brisbane	7.8	8.8	9.5	1.7
Rest of Queensland	18.0	24.1	24.8	6.8
Greater Adelaide	2.5	2.8	3.0	0.5
Rest of South Australia	4.1	5.0	4.8	0.7
Greater Perth	5.5	6.7	6.0	0.5
Rest of Western Australia	19.6	32.7	31.3	11.7
Greater Hobart	0.4	0.5	0.5	0.1
Rest of Tasmania	2.1	2.8	2.8	0.7
Greater Darwin	0.3	0.3	0.3	0.0
Rest of Northern Territory	1.0	1.5	1.4	0.4
Australian Capital Territory	0.3	0.3	0.3	0.0
Australian Capital Cities	39.9	45.5	48.4	8.5
Australian Rest of States	71.4	98.0	102.9	31.5
Australia Interstate	69.6	61.2	68.4	-1.2
AUSTRALIA#	180.9	204.7	219.7	38.8

Source: BITRE 2019, Statistical report, Australian Infrastructure Statistics - Yearbook 2019

Figures are road freight recorded within each region. Australian interstate figure represents road freight between states.

Geography is based on the 2016 ASGS.

BITRE road freight estimates are based on the ABS Survey of Motor Vehicle Use (SMVU).

Estimates are based on the location of the road, not the start point or destination of the driver or goods.

A detailed description of BITRE modelling techniques for freight estimation is provided in BTRE 2006, Freight Measurement and Modelling in Australia.

Change may vary from annual figures due to rounding.

Change in methodology may affect the comparability with previous reports.

p Preliminary estimates.

Combined Australian intrastate and interstate freight task.

⁷² BTRE 2006, Research Report 112, *Freight Measurement and Modelling in Australia*, Canberra.

C 2.2.2 Volume of freight through ports

This indicator measures the volume of freight, both international and domestic, being loaded and unloaded at sea ports. The indicator is only presented for those regions that contain a port with significant and ongoing freight activity. The volume of freight through ports is associated with freight infrastructure needs in the regions near ports, and employment at ports and related industries.

Table C 2.2.2.a Volume of freight through top 49 ports

Port	Remoteness Class	Sub State Region	2006-07	2011-12	2016-17	2006-07 - 2016-17
			tonne (million)	tonne (million)	tonne (million)	change tonne (million)
Port Hedland	Remote	Western Australia - Outback (North)	112.1	245.6	494.7	382.5
Port Walcott	Remote	Western Australia - Outback (North)	53.9	81.8	188.9	135.0
Newcastle	Major Cities	Newcastle and Lake Macquarie	86.0	129.7	171.5	85.6
Dampier	Very Remote	Western Australia - Outback (North)	128.6	174.9	163.8	35.1
Gladstone	Inner Regional	Central Queensland	74.6	84.2	121.6	47.1
Hay Point	Outer Regional	Mackay - Isaac - Whitsunday	86.3	83.3	106.8	20.5
Weipa	Very Remote	Queensland - Outback	19.4	24.9	36.0	16.6
Melbourne	Major Cities	Melbourne - Inner	29.0	34.3	35.8	6.8
Fremantle	Major Cities	Perth - South West	24.6	27.8	35.3	10.7
Brisbane	Major Cities	Brisbane - East	27.6	36.5	32.3	4.7
Sydney	Major Cities	Sydney - City and Inner South	27.7	28.4	27.7	0.0
Abbot Point	Outer Regional	Mackay - Isaac - Whitsunday	11.2	13.6	25.1	14.0
Port Kembla	Major Cities	Illawarra	25.6	27.4	19.6	-6.0
Geraldton	Outer Regional	Western Australia - Outback (South)	6.3	9.6	16.9	10.6
Bunbury	Inner Regional	Bunbury	11.9	13.3	16.3	4.5
Adelaide	Major Cities	Adelaide - West	9.7	15.5	15.6	6.0
Esperance	Remote	Western Australia - Outback (South)	9.8	11.8	15.3	5.5
Geelong	Major Cities	Geelong	10.9	13.1	13.0	2.1
Darwin	Outer Regional	Darwin	9.2	10.7	10.0	0.8
Whyalla	Outer Regional	South Australia - Outback	4.9	8.4	9.4	4.5
Portland	Outer Regional	Warrnambool and South West	3.0	5.2	7.0	4.0
Burnie	Outer Regional	West and North West	4.2	3.8	5.2	1.0
Townsville	Outer Regional	Townsville	9.7	12.6	5.2	-4.5
Albany	Outer Regional	Western Australia - Wheat Belt	3.4	3.5	4.4	1.0
Devonport	Inner Regional	West and North West	2.7	3.4	3.8	1.1
Bell Bay	Outer Regional	Launceston and North East	4.8	2.4	3.5	-1.3
Gove	Very Remote	Northern Territory - Outback	n.p.	0.0	3.1	n.p.
Thevenard	Very Remote	South Australia - Outback	1.7	2.8	2.8	1.1
Port Lincoln	Remote	South Australia - Outback	1.3	3.0	2.6	1.3
Mackay	Inner Regional	Mackay - Isaac - Whitsunday	2.3	2.3	2.5	0.2
Port Latta	Outer Regional	West and North West	1.8	2.3	2.1	0.3
Klein Point	Remote	Barossa - Yorke - Mid North	2.2	1.9	1.8	-0.4
Hastings	Major Cities	Mornington Peninsula	5.3	2.1	1.8	-3.5
Hobart	Inner Regional	Hobart	2.6	1.9	1.6	-1.0
Port Bonython	Outer Regional	South Australia - Outback	0.8	1.1	1.5	0.7
Port Giles	Remote	Barossa - Yorke - Mid North	0.0	1.0	0.9	0.9
Cairns	Outer Regional	Cairns	0.9	0.6	0.8	-0.1
Eden	Outer Regional	Capital Region	1.3	1.1	0.8	-0.6
Wallaroo	Outer Regional	Barossa - Yorke - Mid North	0.3	0.9	0.7	0.4
Port Pirie	Outer Regional	Barossa - Yorke - Mid North	0.5	0.7	0.7	0.2
Milner Bay	Very Remote	Northern Territory - Outback	n.p.	0.4	0.5	n.p.
Ardrossan	Outer Regional	Barossa - Yorke - Mid North	0.6	0.5	0.5	-0.1

(continued)

Volume of freight through top 49 ports (continued)

Port	Remoteness Class	Sub State Region	2006-07	2011-12	2016-17	2006-07 - 2016-17
			tonne (million)	tonne (million)	tonne (million)	change tonne (million)
Barrow Island	Very Remote	Western Australia - Outback (North)	0.5	n.p.	0.4	-0.1
Carnarvon	Very Remote	Western Australia - Outback (South)	4.1	4.5	0.2	-3.9
Broome	Remote	Western Australia - Outback (North)	0.6	0.4	0.2	-0.4
Mourilyan	Outer Regional	Cairns	0.5	0.5	0.2	-0.3
Bundaberg	Inner Regional	Wide Bay	0.5	0.3	0.1	-0.4
King Island	Very Remote	West and North West	0.1	n.p.	0.1	0.0
Wyndham	Very Remote	Western Australia - Outback (North)	0.3	1.8	0.1	-0.2

Source: ABS 2019, Customised report, International Merchandise Trade, Australia (cat. no. 5368.0); and BITRE 2019, Unpublished data, Australian Coastal Freight

Each top 49 port has been classified into 2016 ASGS Remoteness Areas and 2016 ASGS SA4s.

Freight through the remaining ports in 2016-17 approach zero (million tonnes), thus only top 49 ports have been included in this table.

Volume of freight includes coastal and international freight through ports.

The port definitions in BITRE 2019, Australian Sea Freight 2016-17 are used. This combines some ports which are not geographically close. For example it considers Spring Bay as part of Hobart and Useless Loop and Cape Cuvier as part of Carnarvon.

For some ports, the total may not include international trade due to the ABS grouping smaller ports together and confidentialising some trade.

International values and weights exclude non-merchandise trade (e.g. construction equipment temporarily in Australia, art exhibits, personal belongings of passengers) and ship stores such as bunker fuel. However the coastal freight may include non-merchandise trade.

The ABS has changed its approach to confidentialised import data from September 2008 and confidentialised export data from June 2013. This change means that aggregates for port, state, country, and mode of transport totals may no longer be complete and changes in confidentiality restrictions over time may affect the time series. See ABS 2019, International Merchandise Trade, Australia: Concepts, Sources and Methods, 2018 (cat. no. 5489.0), for more details.

Only maritime freight is included.

n.p. not published.

C 2.2.3 Value of international freight through ports

The value of international freight shows the value of imports and exports that move through sea ports in a region. This provides an indication of the relative impact of international economic engagement on the economy of that region.

Due to the structure of transport networks, the value of freight through ports in a region does not necessarily mean the goods were produced in that same region.

Table C 2.2.3.a Value of international freight through top 30 ports

Port	Remoteness Class	Sub State Region	2007-08	2012-13	2017-18
			\$ million (real)	\$ million (real)	\$ million (real)
Melbourne	Major Cities	Melbourne - Inner	80,741	73,623	87,320
Sydney	Major Cities	Sydney - City and Inner South	71,749	60,628	73,067
Brisbane	Major Cities	Brisbane - East	41,558	45,102	46,968
Port Hedland	Remote	Western Australia - Outback (North)	11,835	35,049	35,143
Fremantle	Major Cities	Perth - South West	32,141	32,795	28,482
Dampier	Very Remote	Western Australia - Outback (North)	24,851	37,846	26,021
Gladstone	Inner Regional	Central Queensland	9,857	13,095	25,373
Hay Point	Outer Regional	Mackay - Isaac - Whitsunday	11,735	15,510	25,041
Newcastle	Major Cities	Newcastle and Lake Macquarie	11,323	18,373	23,182
Adelaide	Major Cities	Adelaide - West	12,850	13,309	15,608
Port Kembla	Major Cities	Illawarra	8,311	14,553	15,272
Port Walcott	Remote	Western Australia - Outback (North)	3,792	9,135	14,255
Broome	Remote	Western Australia - Outback (North)	334	334	8,460
Townsville	Outer Regional	Townsville	9,071	9,431	8,100
Bunbury	Inner Regional	Bunbury	3,986	5,450	7,776
Geelong	Major Cities	Geelong	5,683	6,463	5,166
Abbot Point	Outer Regional	Mackay - Isaac - Whitsunday	1,523	2,117	4,417
Darwin	Outer Regional	Darwin	4,898	8,367	3,935
Geraldton	Outer Regional	Western Australia - Outback (South)	2,038	3,811	3,029
Esperance	Remote	Western Australia - Outback (South)	2,741	3,260	2,068
Portland	Outer Regional	Warrnambool and South West	1,809	1,947	1,824
Mackay	Inner Regional	Mackay - Isaac - Whitsunday	926	1,751	1,515
Albany	Outer Regional	Western Australia - Wheat Belt	1,050	1,178	1,092
Bell Bay	Outer Regional	Launceston and North East	2,188	670	974
Hastings	Major Cities	Mornington Peninsula	446	1,227	959
Weipa	Very Remote	Queensland - Outback	331	423	883
Port Bonython	Outer Regional	South Australia - Outback	402	204	756
Port Lincoln	Remote	South Australia - Outback	697	890	704
Cairns	Outer Regional	Cairns	841	792	697
Hobart	Inner Regional	Hobart	475	262	494

Source: ABS 2019, Customised report based on International Merchandise Trade, Australia (cat. no. 5368.0); and ABS 2019, Consumer Price Index, Australia, Mar 2019 (cat. no. 6401.0)

Data converted to real terms using CPI weighted average of eight capital cities. Reference year is 2017-18.

The top 30 ports are ranked in descending order by the largest combined value of free-on-board imports and exports of Australia's international freight, over the 2017-18 financial year.

Each top 30 ports has been classified into 2016 ASGS Remoteness Areas and 2016 ASGS SA4s.

The port definitions in BITRE 2019, Australian Sea Freight 2016-17 are used. This combines some ports which are not geographically close. For example it considers Spring Bay as part of Hobart and Useless Loop and Cape Cuvier as part of Carnarvon.

For some ports, the value of trade reported may be less than the port's true total due to the ABS confidentialising some trade data at the port-level.

International values and weights exclude non-merchandise trade (e.g. construction equipment temporarily in Australia, art exhibits, and personal belongings of passengers) and ship stores such as bunker fuel. However the coastal freight may include non-merchandise trade.

The ABS has changed its approach to confidentialised import data from September 2008 and confidentialised export data from June 2013. This change means that aggregates for port, state, country, and mode of transport totals may no longer be complete and changes in confidentiality restrictions over time may affect the time series. See ABS 2019, International Merchandise Trade, Australia: Concepts, Sources and Methods, 2018 (cat. no. 5489.0) for more details.

Only maritime freight is included.

C 2.3 Communications and utilities

C 2.3.1 Dwellings with an internet connection

This indicator provides a measure of the proportion of dwellings from which internet can be accessed. This includes access through an ADSL, fibre, cable or wireless connection to the dwelling, as well as other means such as 3G or 4G mobile broadband.⁷³ Some dwellings may have access to an internet connection even if it is not paid for by the household, for example those who have an internet connection provided by their employer.

Internet access can vary based on the characteristics of people living in the dwelling and the type and cost of internet access available in a region. Access to the internet can benefit households by enabling improved communications, access to online services, greater consumer choice through e-commerce and savings from reduced travel.

Table C 2.3.1.a Dwellings with an internet connection by remoteness class

Remoteness Class	2006 per cent	2011 per cent	2016 per cent	2006 - 2016 change percentage points
Major Cities	66.3	82.1	87.6	21.3
Inner Regional	57.8	75.1	81.6	23.8
Outer Regional	55.4	72.7	78.6	23.2
Remote	56.5	73.8	78.5	22.0
Very Remote	47.0	62.2	70.1	23.1
AUSTRALIA	63.4	79.6	85.5	22.1

Source: ABS 2018, Customised report, Census of Population and Housing, Australia

Geography is based on the 2016 ASGS.

Data based on place of enumeration.

Calculation based on occupied private dwellings. Includes any type of internet connection that can be accessed from the dwelling via any method (computers, mobile or smart phones, gaming consoles, etc).

Calculation excludes Not Stated category from the denominator.

⁷³ ABS 2016, *Census of Population and Housing: Census Dictionary*, 2016 (cat. no. 2901.0), Canberra.

Table C 2.3.1.b Dwellings with an internet connection by major urban area

Major Urban Area	2006 per cent	2011 per cent	2016 per cent	2006 - 2016 change percentage points
Greater Sydney	68.3	82.8	88.0	19.7
Greater Melbourne	66.0	82.0	87.9	21.9
Greater Brisbane	68.3	83.9	88.6	20.3
Greater Perth	66.8	83.0	88.6	21.8
Greater Adelaide	60.2	77.5	84.2	24.0
Gold Coast - Tweed Heads	66.2	83.0	87.3	21.1
Newcastle - Maitland	58.0	75.5	82.5	24.5
Canberra - Queanbeyan	74.2	87.2	91.2	17.0
Sunshine Coast	66.2	82.4	87.8	21.6
Wollongong	59.7	76.4	82.7	23.0
Geelong	59.3	77.4	83.9	24.6
Greater Hobart	58.0	75.6	82.5	24.5
Townsville	65.2	81.8	85.7	20.5
Cairns	65.6	81.3	85.1	19.5
Greater Darwin	66.0	83.4	87.9	21.9
Toowoomba	60.6	77.5	83.8	23.2
Ballarat	56.4	75.4	82.8	26.4
Bendigo	57.1	75.3	82.4	25.3
Albury - Wodonga	58.8	76.0	82.2	23.4
Launceston	55.6	73.2	81.2	25.6

Source: ABS 2017, Customised report, Census of Population and Housing, Australia

The major urban areas of Sydney, Melbourne, Brisbane, Adelaide, Perth, Hobart and Darwin are based on the 2016 ASGS Greater Capital City Statistical Area (GCCSA) classification. All other major urban areas are based on the 2016 ASGS Significant Urban Area (SUA) classification.

Data based on place of enumeration.

Calculation based on occupied private dwellings. Includes any type of internet connection that can be accessed from the dwelling via any method (computers, mobile or smart phones, gaming consoles, etc).

Calculation excludes Not Stated category from the denominator.

Table C 2.3.1.c Dwellings with an internet connection by sub-state region

<i>Sub-State Region</i>	<i>2006 per cent</i>	<i>2011 per cent</i>	<i>2016 per cent</i>	<i>2006 - 2016 change percentage points</i>
New South Wales	63.6	79.2	84.9	21.3
Greater Sydney	68.3	82.8	88.0	19.7
Central Coast	59.4	76.2	83.1	23.7
Sydney - Baulkham Hills and Hawkesbury	81.3	90.3	93.4	12.1
Sydney - Blacktown	64.3	81.4	87.4	23.1
Sydney - City and Inner South	69.4	85.0	89.0	19.6
Sydney - Eastern Suburbs	72.3	85.9	90.2	17.9
Sydney - Inner South West	61.3	77.7	84.3	23.0
Sydney - Inner West	71.2	84.6	89.2	18.0
Sydney - North Sydney and Hornsby	79.7	90.1	93.4	13.7
Sydney - Northern Beaches	74.8	87.0	91.2	16.4
Sydney - Outer South West	65.9	82.0	86.7	20.8
Sydney - Outer West and Blue Mountains	66.6	81.8	87.0	20.4
Sydney - Parramatta	63.7	80.5	86.3	22.6
Sydney - Ryde	74.5	85.8	90.6	16.1
Sydney - South West	59.8	76.9	83.7	23.9
Sydney - Sutherland	71.7	84.6	89.6	17.9
Rest of New South Wales	56.4	73.3	79.9	23.5
Capital Region	59.1	75.4	80.8	21.7
Central West	53.8	70.8	76.9	23.1
Coffs Harbour - Grafton	56.1	73.8	80.5	24.4
Far West and Orana	49.9	66.6	72.9	23.0
Hunter Valley exc Newcastle	58.1	75.8	81.7	23.6
Illawarra	60.1	76.5	82.9	22.8
Mid North Coast	52.6	69.8	77.2	24.6
Murray	54.5	71.2	78.1	23.6
New England and North West	51.7	68.7	75.0	23.3
Newcastle and Lake Macquarie	58.9	76.0	83.1	24.2
Richmond - Tweed	57.6	74.6	81.1	23.5
Riverina	54.4	71.0	77.4	23.0
Southern Highlands and Shoalhaven	58.7	75.0	82.0	23.3
Victoria	63.1	79.7	86.0	22.9
Greater Melbourne	66.0	82.0	87.9	21.9
Melbourne - Inner	68.5	84.7	89.5	21.0
Melbourne - Inner East	72.9	85.1	90.1	17.2
Melbourne - Inner South	69.1	83.3	89.3	20.2
Melbourne - North East	63.3	80.1	86.5	23.2
Melbourne - North West	60.0	78.1	85.0	25.0
Melbourne - Outer East	69.6	84.2	89.5	19.9
Melbourne - South East	64.8	81.4	87.8	23.0
Melbourne - West	61.5	79.7	86.5	25.0
Mornington Peninsula	61.9	79.5	86.1	24.2
Rest of Victoria	55.3	73.2	80.4	25.1
Ballarat	55.8	73.8	81.2	25.4
Bendigo	57.5	75.1	82.2	24.7

(continued)

Dwellings with an internet connection by sub-state region (continued)

<i>Sub-State Region</i>	<i>2006 per cent</i>	<i>2011 per cent</i>	<i>2016 per cent</i>	<i>2006 - 2016 change percentage points</i>
Geelong	59.5	77.5	84.0	24.5
Hume	55.9	73.7	80.3	24.4
Latrobe - Gippsland	55.4	73.1	80.1	24.7
North West	50.3	67.5	75.2	24.9
Shepparton	52.1	70.4	78.3	26.2
Warrnambool and South West	52.4	70.6	78.1	25.7
Queensland	64.8	81.2	86.1	21.3
Greater Brisbane	68.3	83.9	88.6	20.3
Brisbane - East	68.5	83.9	88.8	20.3
Brisbane - North	65.0	81.6	87.4	22.4
Brisbane - South	70.7	85.1	90.1	19.4
Brisbane - West	80.1	90.3	93.7	13.6
Brisbane Inner City	73.1	88.0	91.7	18.6
Ipswich	61.1	79.4	84.9	23.8
Logan - Beaudesert	65.6	82.6	86.6	21.0
Moreton Bay - North	59.7	78.2	84.1	24.4
Moreton Bay - South	75.2	88.5	91.9	16.7
Rest of Queensland	61.5	78.7	83.8	22.3
Cairns	61.2	77.3	82.2	21.0
Darling Downs - Maranoa	51.2	70.4	76.6	25.4
Central Queensland	60.5	77.9	82.5	22.0
Gold Coast	68.1	84.4	88.2	20.1
Mackay - Isaac - Whitsunday	62.3	79.8	83.3	21.0
Queensland - Outback	49.3	66.9	75.2	25.9
<i>Far North</i>	40.2	58.0	73.5	33.3
<i>Outback - North</i>	55.4	72.9	78.0	22.6
<i>Outback - South</i>	51.1	68.7	73.5	22.4
Sunshine Coast	66.4	82.5	87.8	21.4
Toowoomba	60.1	77.1	83.4	23.3
Townsville	61.5	78.9	83.1	21.6
Wide Bay	53.7	72.1	78.5	24.8
South Australia	58.2	75.7	82.6	24.4
Greater Adelaide	60.2	77.5	84.2	24.0
Adelaide - Central and Hills	66.1	81.1	86.8	20.7
Adelaide - North	58.3	76.7	83.3	25.0
Adelaide - South	62.8	79.4	85.9	23.1
Adelaide - West	52.3	71.8	80.0	27.7
Rest of South Australia	51.3	69.6	77.1	25.8
Barossa - Yorke - Mid North	51.2	69.2	77.1	25.9
South Australia - Outback	50.1	68.8	75.0	24.9
<i>Eyre Peninsula and South West</i>	50.3	69.5	76.5	26.2
<i>Outback - North and East</i>	49.6	67.2	71.5	21.9
South Australia - South East	51.9	70.2	78.0	26.1
Western Australia	65.2	81.6	87.2	22.0
Greater Perth	66.8	83.0	88.6	21.8

(continued)

Dwellings with an internet connection by sub-state region (continued)

Sub-State Region	2006 per cent	2011 per cent	2016 per cent	2006 - 2016 change percentage points
Mandurah	59.6	78.2	84.7	25.1
Perth - Inner	72.0	86.2	90.7	18.7
Perth - North East	64.7	81.6	87.7	23.0
Perth - North West	68.4	84.2	89.4	21.0
Perth - South East	65.4	82.3	88.2	22.8
Perth - South West	66.5	82.8	88.4	21.9
Rest of Western Australia	59.4	76.4	81.7	22.3
Bunbury	60.2	78.1	84.0	23.8
Western Australia - Wheat Belt	57.0	74.0	79.7	22.7
Western Australia - Outback (North)	64.7	78.6	81.2	16.5
<i>Kimberley</i>	51.9	67.5	73.7	21.8
<i>East Pilbara</i>	68.7	83.3	83.9	15.2
<i>West Pilbara</i>	76.7	89.3	88.4	11.7
Western Australia - Outback (South)	58.6	75.7	80.8	22.2
<i>Esperance</i>	59.0	75.9	81.8	22.8
<i>Gascoyne</i>	53.9	72.9	77.7	23.8
<i>Goldfields</i>	61.1	78.3	82.2	21.1
<i>Mid West</i>	57.6	74.4	80.3	22.7
Tasmania	54.9	72.9	80.0	25.1
Greater Hobart	58.0	75.6	82.5	24.5
Rest of Tasmania	52.7	70.9	78.1	25.4
Launceston and North East	54.1	71.8	79.3	25.2
South East	50.3	69.9	77.1	26.8
West and North West	51.5	70.0	77.0	25.5
Northern Territory	60.2	76.6	82.4	22.2
Greater Darwin	66.0	83.4	87.9	21.9
Rest of Northern Territory	50.2	64.6	71.5	21.3
Northern Territory - Outback	50.2	64.6	71.5	21.3
<i>Alice Springs</i>	57.6	73.1	75.7	18.1
<i>Barkly</i>	36.4	53.1	63.9	27.5
<i>Daly - Tiwi - West Arnhem</i>	31.2	45.7	63.1	31.9
<i>East Arnhem</i>	54.7	65.0	72.1	17.4
<i>Katherine</i>	46.4	62.2	70.3	23.9
Australian Capital Territory	75.2	87.9	91.8	16.6
Australian Capital Cities	66.7	82.3	87.8	21.1
Australian Rest of States	57.4	74.7	81.0	23.6

Source: ABS 2017, Customised report, Census of Population and Housing, Australia

Sub-state regions are SA4 (2016 ASGS), italicised regions are SA3 (2016 ASGS).

Data based on place of enumeration.

Calculation based on occupied private dwellings. Includes any type of internet connection that can be accessed from the dwelling via any method (computers, mobile or smart phones, gaming consoles, etc).

Calculation excludes Not Stated category from the denominator.

C 2.3.2 Residential water supply

Urban water utilities provide urban water services across Australia. Residential water supply is influenced by climate, rainfall, water conservation measures, the available water supply, housing density and the price of water. Rainfall is the most influential factor that affects residential consumption of water.⁷⁴

Table C 2.3.2.a Average annual residential water supplied by major urban area

Major Urban Area	2011-12 kL per property	2014-15 kL per property	2017-18 kL per property
Sydney	193	201	215
Melbourne	142	149	148
South East Queensland	n.a	160	155
Perth	250	244	219
Adelaide	179	186	195
Newcastle - Maitland	163	168	181
Australian Capital Territory	180	188	197
Geelong	153	156	163
Townsville	362	435	242
Cairns	245	263	253
Darwin	471	409	368
Toowoomba	101	146	152

Source: BOM 2019, National Performance Report 2017-18: Urban Water Utilities

Major urban areas have been classified according to boundaries outlined in the National Performance Report. This is broadly comparable to the ASGS Significant Urban Area and Greater Capital City Statistical Area classifications.

Average annual residential water supply is calculated on major utilities (with greater than 100,000 customers) with the exception of Darwin, Cairns, Townsville and Toowoomba (with between 50,000 and 100,000 customers).

Due to year on year data variation, change and trend comparisons over time have not been reported.

n.a. Not available.

⁷⁴ BOM 2018, National Performance Report 2016-17: Urban Water Utilities, Melbourne.

C 2.4 Land use

C 2.4.1 Land area and land use

Land area for each region is based on the Australian Statistical Geography Standard (ASGS), and provides a context for understanding the distribution and density of settlement, industry and infrastructure.

The land cover indicators provide information on how land is being used. This includes land that is covered by vegetation as parkland or public open space, land that is part of a built-up urban area, and land that is agricultural. This information provides the foundation for regional and urban development planning.

Table C 2.4.1.a Land area and land use by remoteness class

Remoteness Class	Land area hectare	Built-up area per cent	Agricultural per cent	Vegetation per cent	Other per cent
2016					
Major Cities	1,996,625	48.0	19.2	19.1	13.7
Inner Regional	25,151,721	3.7	67.3	19.4	9.6
Outer Regional	80,315,819	0.9	73.7	20.1	5.3
Remote	90,565,366	0.4	84.8	12.1	2.8
Very Remote	570,783,100	0.1	76.2	5.6	18.0
AUSTRALIA	768,812,632	0.5	76.5	8.4	14.6

Source: ABS 2018, Australian Statistical Geography Standard (ASGS), Volume 5 - Remoteness Structure, July 2016 (cat. no. 1270.0.55.005); and ABS 2016, Australian Statistical Geography Standard (ASGS), Volume 1 - Main Structure and Greater Capital City Statistical Areas, July 2016 (cat. no. 1270.0.55.001)

Geography is based on the 2016 ASGS.

Data has been sourced from ASGS meshblock land use classifications. This is different from Yearbook 2016, where land use was sourced from ABS, National Regional Profile, 2007 to 2011 (cat. no. 1379.0.55.001).

Table C 2.4.1.b Land area and land use by major urban area

Major Urban Area	Land area hectare	Built-up area per cent	Agricultural per cent	Vegetation per cent	Other per cent
2016					
Greater Sydney	1,236,819	15.2	9.5	57.1	18.3
Greater Melbourne	999,251	25.1	44.7	20.6	9.7
Greater Brisbane	1,584,196	14.1	58.8	18.0	9.1
Greater Perth	641,622	30.6	22.0	37.8	9.5
Greater Adelaide	325,984	22.7	55.1	10.8	11.4
Gold Coast - Tweed Heads	140,504	36.7	21.1	21.1	21.1
Newcastle - Maitland	117,913	26.1	30.8	22.8	20.3
Canberra - Queanbeyan	49,934	48.2	17.2	29.3	5.3
Sunshine Coast	163,310	19.7	29.3	23.9	27.1
Wollongong	57,232	25.6	21.9	24.8	27.7
Geelong	132,901	19.4	68.3	8.3	3.9
Greater Hobart	169,536	20.8	25.7	22.0	31.4
Townsville	69,329	28.1	42.3	22.0	7.5
Cairns	25,405	47.3	12.6	35.0	5.1
Greater Darwin	316,391	38.7	26.5	14.0	20.8
Toowoomba	72,860	26.3	69.4	3.8	0.5
Ballarat	34,362	25.9	32.2	10.7	31.2
Bendigo	28,744	41.8	8.7	29.2	20.4
Albury - Wodonga	62,825	15.7	66.6	9.8	7.9
Launceston	43,541	21.8	68.2	6.6	3.4

Source: ABS 2016, Australian Statistical Geography Standard (ASGS), Volume 1 – Main Structure and Greater Capital City Statistical Areas, July 2016 (cat. no. 1270.0.55.001)

The major urban areas of Sydney, Melbourne, Brisbane, Adelaide, Perth, Hobart and Darwin are based on the 2016 ASGS Greater Capital City Statistical Area (GCCSA) classification. All other major urban areas are based on the 2016 ASGS Significant Urban Area (SUA) classification.

Data has been sourced from ASGS meshblock land use classifications. This is different from Yearbook 2016, where land use was sourced from ABS, National Regional Profile, 2007 to 2011 (cat. no. 1379.0.55.001).

Table C 2.4.1.c Land area and land use by sub-state region

<i>Sub-State Region</i>	<i>Land area hectare</i>	<i>Built-up area per cent</i>	<i>Agricultural per cent</i>	<i>Vegetation per cent</i>	<i>Other per cent</i>
2016					
New South Wales	80,081,078	0.8	83.7	10.0	5.5
Greater Sydney	1,236,819	15.2	9.5	57.1	18.3
Central Coast	168,107	9.9	10.4	53.4	26.2
Sydney - Baulkham Hills and Hawkesbury	325,150	2.9	5.0	64.8	27.2
Sydney - Blacktown	24,209	54.9	22.8	13.7	8.5
Sydney - City and Inner South	6,553	85.9	0.0	13.1	0.9
Sydney - Eastern Suburbs	5,773	72.4	0.0	27.1	0.4
Sydney - Inner South West	16,394	82.9	0.0	17.0	0.1
Sydney - Inner West	6,455	87.1	0.0	12.7	0.1
Sydney - North Sydney and Hornsby	27,510	44.9	0.0	55.1	0.0
Sydney - Northern Beaches	25,421	37.6	0.0	57.9	4.5
Sydney - Outer South West	127,845	13.2	32.0	29.6	25.2
Sydney - Outer West and Blue Mountains	396,813	6.1	5.3	74.5	14.2
Sydney - Parramatta	16,164	83.0	0.0	16.7	0.2
Sydney - Ryde	6,934	79.5	0.0	20.5	0.0
Sydney - South West	53,907	55.7	29.4	12.2	2.6
Sydney - Sutherland	29,587	26.5	0.0	73.4	0.0
Rest of New South Wales	78,844,259	0.6	84.9	9.2	5.3
Capital Region	5,189,556	1.0	61.1	24.9	13.0
Central West	7,029,706	1.0	83.9	10.8	4.3
Coffs Harbour - Grafton	1,322,976	1.6	34.6	41.4	22.4
Far West and Orana	33,936,369	0.1	95.8	2.2	1.9
Hunter Valley exc Newcastle	2,149,129	1.8	58.4	17.5	22.3
Illawarra	153,892	9.8	15.7	42.0	32.5
Mid North Coast	1,885,150	1.4	35.4	34.7	28.4
Murray	9,779,768	0.3	94.0	3.9	1.7
New England and North West	9,914,592	0.4	82.0	11.4	6.1
Newcastle and Lake Macquarie	87,061	27.0	8.5	36.5	28.1
Richmond - Tweed	1,027,114	2.5	56.4	21.6	19.5
Riverina	5,698,502	0.5	85.5	13.2	0.8
Southern Highlands and Shoalhaven	670,444	2.9	24.9	45.4	26.9
Victoria	22,749,563	2.4	63.3	31.0	3.4
Greater Melbourne	999,251	25.1	44.7	20.6	9.7
Melbourne - Inner	14,236	82.3	0.0	16.8	0.9
Melbourne - Inner East	14,674	83.6	0.0	16.4	0.0
Melbourne - Inner South	16,150	80.7	0.0	16.6	2.7
Melbourne - North East	185,126	15.6	36.0	30.9	17.6
Melbourne - North West	161,969	23.9	60.8	9.6	5.6
Melbourne - Outer East	187,856	17.5	40.7	38.8	2.9
Melbourne - South East	192,228	23.3	51.6	13.1	12.0
Melbourne - West	141,635	29.6	50.1	13.0	7.2
Mornington Peninsula	85,377	30.7	40.7	10.1	18.5
Rest of Victoria	21,750,312	1.3	64.2	31.4	3.1
Ballarat	1,028,748	3.0	73.0	18.1	5.8
Bendigo	1,184,191	2.6	77.4	10.7	9.3
Geelong	442,870	7.7	76.4	14.2	1.8

(continued)

Land area and land use by sub-state region (continued)

<i>Sub-State Region</i>	<i>Land area hectare</i>	<i>Built-up area per cent</i>	<i>Agricultural per cent</i>	<i>Vegetation per cent</i>	<i>Other per cent</i>
2016					
Hume	3,400,554	1.8	49.3	46.6	2.4
Latrobe - Gippsland	4,155,375	1.2	36.3	59.1	3.5
North West	7,807,274	0.4	72.4	25.6	1.6
Shepparton	1,093,411	1.8	90.4	6.0	1.8
Warrnambool and South West	2,637,891	1.2	80.5	13.5	4.8
Queensland	173,017,208	0.6	89.7	7.3	2.5
Greater Brisbane	1,584,196	14.1	58.8	18.0	9.1
Brisbane - East	65,313	31.1	2.0	55.1	11.8
Brisbane - North	18,695	73.8	0.7	25.1	0.4
Brisbane - South	26,534	61.2	0.5	19.0	19.3
Brisbane - West	26,965	42.5	1.9	33.7	21.9
Brisbane Inner City	8,174	84.9	0.0	15.1	0.0
Ipswich	668,115	7.9	73.3	10.5	8.3
Logan - Beaudesert	258,615	19.4	68.7	8.4	3.5
Moreton Bay - North	434,446	6.3	58.7	28.3	6.8
Moreton Bay - South	77,339	31.5	9.4	18.6	40.4
Rest of Queensland	171,433,012	0.5	89.9	7.2	2.4
Cairns	2,133,797	2.3	51.3	39.6	6.7
Darling Downs - Maranoa	16,634,006	0.5	95.8	3.5	0.2
Central Queensland	11,758,800	1.1	85.5	12.4	1.0
Gold Coast	185,789	29.2	13.9	32.4	24.6
Mackay - Isaac - Whitsunday	9,014,011	0.6	92.9	5.3	1.3
Queensland - Outback	118,318,272	0.1	90.9	6.1	2.9
<i>Far North</i>	25,087,759	0.5	75.1	11.1	13.3
<i>Outback - North</i>	30,708,218	0.1	97.8	2.1	0.1
<i>Outback - South</i>	62,522,295	0.0	93.9	6.1	0.0
Sunshine Coast	308,591	12.9	35.5	29.2	22.4
Toowoomba	225,880	19.7	66.4	3.8	10.1
Townsville	8,003,610	0.9	91.7	5.9	1.5
Wide Bay	4,850,258	2.0	73.5	22.3	2.2
South Australia	98,427,491	0.3	71.6	2.1	26.1
Greater Adelaide	325,984	22.7	55.1	10.8	11.4
Adelaide - Central and Hills	149,727	11.1	67.7	9.5	11.7
Adelaide - North	93,999	26.8	49.9	12.4	10.9
Adelaide - South	66,308	28.7	47.3	10.1	13.9
Adelaide - West	15,949	82.5	0.0	16.8	0.7
Rest of South Australia	98,101,507	0.2	71.6	2.1	26.1
Barossa - Yorke - Mid North	3,771,635	0.6	95.7	3.1	0.6
South Australia - Outback	87,781,598	0.2	69.4	1.5	28.9
<i>Eyre Peninsula and South West</i>	23,530,548	0.3	18.1	3.8	77.8
<i>Outback - North and East</i>	64,251,050	0.1	88.2	0.7	11.0
South Australia - South East	6,548,274	0.6	87.5	8.4	3.5
Western Australia	252,664,624	0.2	83.0	8.1	8.7
Greater Perth	641,622	30.6	22.0	37.8	9.5
Mandurah	103,286	14.1	72.7	12.1	1.2
Perth - Inner	9,224	67.3	0.0	29.9	2.7

(continued)

Land area and land use by sub-state region (continued)

<i>Sub-State Region</i>	<i>Land area hectare</i>	<i>Built-up area per cent</i>	<i>Agricultural per cent</i>	<i>Vegetation per cent</i>	<i>Other per cent</i>
2016					
Perth - North East	176,243	20.0	21.1	38.7	20.2
Perth - North West	88,400	32.1	10.4	46.1	11.4
Perth - South East	202,399	36.4	8.7	52.0	3.0
Perth - South West	62,070	62.4	3.7	21.3	12.5
Rest of Western Australia	252,023,002	0.1	83.1	8.1	8.7
Bunbury	2,480,241	2.3	33.6	57.9	6.1
Western Australia - Wheat Belt	19,734,538	0.4	83.0	13.8	2.9
Western Australia - Outback (North)	92,604,966	0.1	80.8	6.0	13.1
<i>Kimberley</i>	41,925,979	0.1	66.7	6.4	26.7
<i>East Pilbara</i>	39,072,378	0.1	94.3	3.3	2.3
<i>West Pilbara</i>	11,606,609	0.2	86.2	13.6	0.0
Western Australia - Outback (South)	137,203,257	0.1	85.6	7.7	6.6
<i>Esperance</i>	5,566,066	0.2	69.9	24.4	5.6
<i>Gascoyne</i>	13,506,408	0.0	90.0	6.0	3.9
<i>Goldfields</i>	71,451,308	0.0	77.5	11.3	11.2
<i>Mid West</i>	46,679,475	0.1	98.6	0.8	0.6
Tasmania	6,801,750	1.7	27.3	56.0	14.9
Greater Hobart	169,536	20.8	25.7	22.0	31.4
Rest of Tasmania	6,632,214	1.3	27.4	56.9	14.5
Launceston and North East	1,997,534	1.8	52.7	35.6	10.0
South East	2,382,202	1.1	17.9	58.1	22.9
West and North West	2,252,479	1.0	15.0	74.6	9.5
Northern Territory	134,809,433	0.4	51.9	7.7	40.0
Greater Darwin	316,391	38.7	26.5	14.0	20.8
Rest of Northern Territory	134,493,042	0.3	51.9	7.7	40.1
Northern Territory - Outback	134,493,042	0.3	51.9	7.7	40.1
<i>Alice Springs</i>	56,956,473	0.2	41.9	9.0	48.9
<i>Barkly</i>	30,321,398	0.0	71.0	0.0	29.0
<i>Daly - Tiwi - West Arnhem</i>	11,229,485	0.4	23.5	19.2	56.8
<i>East Arnhem</i>	3,360,659	0.4	0.0	2.5	97.0
<i>Katherine</i>	32,625,027	0.7	66.9	9.1	23.3
Australian Capital Territory	235,817	10.3	18.5	69.3	1.9
Australian Capital Cities	5,509,616	20.2	36.1	31.2	12.5
Australian Rest of States	763,302,980	0.3	76.8	8.2	14.6

Source: ABS 2016, Australian Statistical Geography Standard (ASGS), Volume 1 - Main Structure and Greater Capital City Statistical Areas, July 2016 (cat. no. 1270.0.55.001).

Sub-state regions are SA4 (2016 ASGS), italicised regions are SA3 (2016 ASGS).

Australian rest of states includes Other Territories.

Data has been sourced from ASGS meshblock land use classifications. This is different from Yearbook 2016, where land use was sourced from ABS, National Regional Profile, 2007 to 2011 (cat. no. 1379.0.55.001).

