

Australian Government

Department of Infrastructure, Regional Development and CitiesBureau of Infrastructure, Transport and Regional Economics

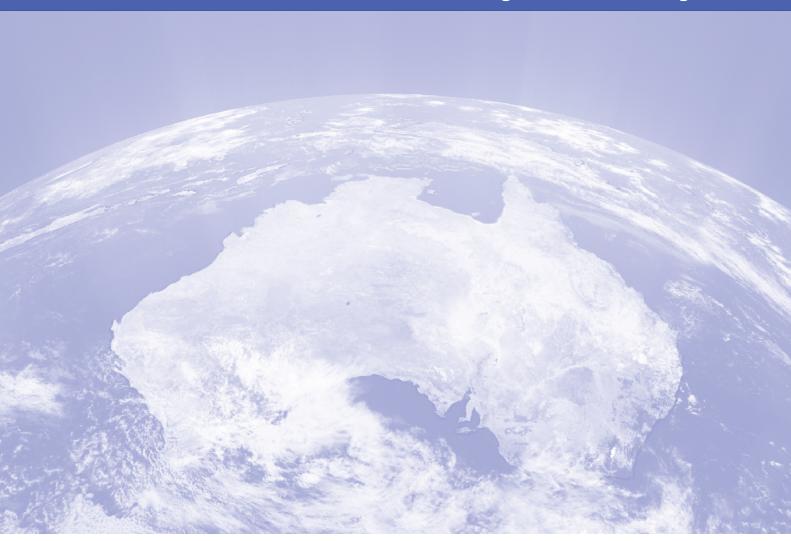
Yearbook 2018

Progress in Australian Regions



Yearbook 2018

Progress in Australian Regions



© Commonwealth of Australia, 2018 ISBN 978-1-925701-67-8 ISSN 2204-6976 (Print) ISSN 2204-6984 (Online)

November 2018/INFRA3627

Ownership of intellectual property rights in this publication

Unless otherwise noted, copyright (and any other intellectual property rights, if any) in this publication is owned by the Commonwealth of Australia (referred to below as the Commonwealth).

Disclaimer

The material contained in this publication is made available on the understanding that the Commonwealth is not providing professional advice, and that users exercise their own skill and care with respect to its use, and seek independent advice if necessary.

The Commonwealth makes no representations or warranties as to the contents or accuracy of the information contained in this publication. To the extent permitted by law, the Commonwealth disclaims liability to any person or organisation in respect of anything done, or omitted to be done, in reliance upon information contained in this publication.

Creative Commons licence

With the exception of (a) the Coat of Arms; (b) the Department of Infrastructure's photos and graphics; copyright in this publication is licensed under a Creative Commons Attribution 3.0 Australia Licence.

Creative Commons Attribution 3.0 Australia Licence is a standard form licence agreement that allows you to copy, communicate and adapt this publication provided that you attribute the work to the Commonwealth and abide by the other licence terms.

A summary of the licence terms is available from http://creativecommons.org/licenses/by/3.0/au/deed.en. The full licence terms are available from http://creativecommons.org/licenses/by/3.0/au/legalcode. This publication should be attributed in the following way: © Commonwealth of Australia 2018, *Progress in Australian Regions - Yearbook 2018*.

Use of the Coat of Arms

The Department of the Prime Minister and Cabinet sets the terms under which the Coat of Arms is used. Please refer to the Department's Commonwealth Coat of Arms and Government Branding web page http://www.dpmc.gov.au/resource-centre/government/australian-government-branding-guidelines-use-australian-government-logo-australian-government-departments-and-agencies and in particular, the Guidelines on the use of the Commonwealth Coat of Arms publication.

Contact us

This publication is available in hard copy or PDF format. All other rights are reserved, including in relation to any Departmental logos or trademarks, which may exist. For enquiries regarding the licence and any use of this publication, please contact:

Director — Publishing and Communications Section Department of Infrastructure and Regional Development GPO Box 594, Canberra ACT 2601 Australia

Email: publishing@infrastructure.gov.au Website: www.infrastructure.gov.au

Acknowledgements

This publication was produced by the Bureau of Infrastructure, Transport and Regional Economics' Regions Research team, and was compiled by Mari Adams, Lucy Williams, Ellie Deamer, Dr Karen Malam, Darren Wheatley, Kyle Thomson and Rochelle Ball.

The Department of Infrastructure and Regional Development would like to acknowledge the significant contribution made by the Australian Bureau of Statistics (ABS), which constructed many of the indicators contained in this edition. In addition, we wish to acknowledge comments and suggestions to improve the Yearbook, made by state and territory Governments, other Australian Government agencies, research institutions and business organisations.

Abbreviations and acronyms

ABN Australian Business Number

ABS Australian Bureau of Statistics

AEC Australian Electoral Commission

AEDC Australian Early Development Census

ASGS Australian Statistical Geography Standard

BITRE Bureau of Infrastructure, Transport and Regional Economics

CED Commonwealth Electoral Divisions

CDEP Community Development Employment Project

CPI Consumer Price Index

GCCSA Greater Capital City Statistical Area

GST Goods and Service Tax

HILDA Household, Income and Labour Dynamics in Australia

LGA Local Government Area

MAP Measures of Australia's Progress

MUA Major Urban Areas

NAPLAN National Assessment Program – Literacy and Numeracy

NEPM National Environment Protection Measure

OECD Organisation for Economic Cooperation and Development

SA2 Statistical Area Level 2
SA3 Statistical Area Level 3
SA4 Statistical Area Level 4
SUA Significant Urban Area

UN United Nations

WHO World Health Organization

Endnotes and definitions

Place of usual residence

Place of usual residence is the place where a person usually lives. It may, or may not be, the place where the person was counted on Census night. Each person is required to state their address of usual residence on the Census form.

2011 ASGS and 2016 ASGS

The 2016 Australian Statistical Geography Standard (ASGS), which was introduced in 2016, updates the 2011 ASGS, with some minor boundary changes. This includes the addition of Norfolk Island in the collection of data from July 2016 onwards; the splitting of the Western Australia - Outback SA4 into two SA4 regions, Western Australia - Outback (North) and Western Australia - Outback (South); and minor boundary changes to the Remoteness Area classification. There were no changes made to the Greater Capital City Statistical Areas (GCCSA).

Australian Capital Territory classifications

The GCCSA classification and Statistical Areas Level 4 (SA4) for the Australian Capital Territory (ACT) are equivalent. However, there are minor differences between the GCCSA and SA4 classifications of the ACT, and the state and territory classification of the ACT.

Depending on the indicator, data for the ACT has been published in sub-state tables either using the GCCSA or state and territory definition. Depending on which classification has been used, the totals for Australian capital cities may vary slightly from the sum of individual capital cities presented in the table.

Rounding of data

In this publication, table data has been rounded to one decimal place. In most instances, changes in an indicator over time have been calculated using the rounded data published in the tables. However, in some cases changes over time have been calculated before rounding. In these cases, the figure published for change over time may not sum with the rest of the data published for that region.

Changes over time

Where commentary refers to the largest increase or decrease in an indicator, the change is measured in the units specified in the indicator's table. For example, changes in an indicator for a region may be measured in absolute terms, in percentage points or in percentages, as specified by the table.

Equivalent classifications

The GCCSA geographies for Greater Hobart, Greater Darwin and the ACT are equivalent to their respective SA4 geographies. Data presented for these areas at the SA4 scale is equivalent to data for these areas at the GCCSA scale. Further, the rest of state geography for the Northern Territory (rest of Northern Territory) is equivalent to the SA4 region Northern Territory - Outback.

References

Australian Bureau of Statistics (ABS) 2006, *Australian and New Zealand Standard Classification of Occupations, First Edition*, 2006 (cat. no. 1220.0), Canberra.

Australian Bureau of Statistics (ABS) 2009, *Australian and New Zealand Standard Classification of Occupations, First Edition, Revision 1* (cat. no. 1220.0), Canberra.

Australian Bureau of Statistics (ABS) 2011, Australian Statistical Geography Standard (ASGS), Volume 5 – Remoteness Structure, July 2011 (cat. no. 1270.0.55.005), Canberra.

Australian Bureau of Statistics (ABS) 2012, Labour Force, Australia, Feb 2012 (cat. no. 6202.0), Canberra.

Australian Bureau of Statistics (ABS) 2012, Labour Force Characteristics of Aboriginal and Torres Strait Islander Australians, Estimates from the Labour Force Survey, 2011 (cat. no. 6287.0), Canberra.

Australian Bureau of Statistics (ABS) 2013, Australian and New Zealand Standard Classification of Occupations, 2013, Version 1.2 (cat. no. 1220.0), Canberra.

Australian Bureau of Statistics (ABS) 2013, *Australian and New Zealand Standard Industrial Classification* (ANZSIC), 2006 (Revision 2.0) (cat. no. 1292.0), Canberra.

Australian Bureau of Statistics (ABS) 2013, Australian Social Trends, Nov 2013 (cat. no. 4102.0), Canberra.

Australian Bureau of Statistics (ABS) 2013, *Household Income and Income Distribution*, *Australia*, 2011-12 (cat. no. 6523.0), Canberra.

Australian Bureau of Statistics (ABS) 2013, Measures of Australia's Progress (cat. no. 1370.0), Canberra.

Australian Bureau of Statistics (ABS) 2015, Australian Demographic Statistics, Jun 2015 (cat. no. 3101.0), Canberra

Australian Bureau of Statistics (ABS) 2015, Customised report, *National Health Survey: First Results, 2014-15* (cat. no. 4364.0.55.001), Canberra.

Australian Bureau of Statistics (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), Canberra.

Australian Bureau of Statistics (ABS) 2016, Australian Statistical Geography Standard (ASGS), Volume 4 - Significant Urban Areas, Urban Centres and Localities, Section of State, July 2016 (cat. no. 1270.0.55.004), Canberra.

Australian Bureau of Statistics (ABS) 2016, Census of Population and Housing: Census Dictionary, 2016 (cat. no. 2901.0), Canberra.

Australian Bureau of Statistics (ABS) 2017, Causes of Death, Australia, 2016 (cat. no. 3303.0), Canberra.

Australian Bureau of Statistics (ABS) 2017, Consumer Price Index, Australia, Jun 2017 (cat. no. 6401.0), Canberra.

Australian Bureau of Statistics (ABS) 2017, Crime Victimisation, Australia, 2015-16 (cat. no. 4530.0), Canberra.

Australian Bureau of Statistics (ABS) 2017, Customised report, Attendance at Selected Cultural Venues and Events, Australia (cat no. 4114.0), Canberra.

Australian Bureau of Statistics (ABS) 2017, Customised report, *Causes of Death, Australia, 2016* (cat. no. 3303.0), Canberra.

Australian Bureau of Statistics (ABS) 2017, Customised report, Census of Population and Housing, Australia, Canberra.

Australian Bureau of Statistics (ABS) 2017, Customised report, Clean Energy Regulator, Data by Region (cat. no. 1410.0), Canberra.

Australian Bureau of Statistics (ABS) 2017, Customised report, *Data by Region*, 2011-16 (cat. no. 1410.0), Canberra.

Australian Bureau of Statistics (ABS) 2017, Customised report, *General Social Survey: Summary Results, Australia, 2014* (cat. no. 4159.0), Canberra.

Australian Bureau of Statistics (ABS) 2017, Customised report, *Household Income and Wealth, Australia,* 2015-16 (cat. no. 6253.0), Canberra.

Australian Bureau of Statistics (ABS) 2017, Customised report, *International Merchandise Trade, Australia* (cat. no. 5422.0), Canberra.

Australian Bureau of Statistics (ABS) 2017, Customised report, *Life Tables, States, Territories and Australia,* 2014-16 (cat. no. 3302.0.55.001), Canberra.

Australian Bureau of Statistics (ABS) 2017, Customised report, *National Aboriginal and Torres Strait Islander Social Survey, 2014-15* (cat. no. 4714.0), Canberra.

Australian Bureau of Statistics (ABS) 2017, Customised report, *National Aged Care Data Clearing House*, *Population Projections*, 2012 (base) to 2027 for all states and territories at Statistical Area Level 2 (SA2) by sex and age, Canberra.

Australian Bureau of Statistics (ABS) 2017, Customised report, *Population by Age and Sex, Regions of Australia,* 2016 (cat. no. 3235.0), Canberra.

Australian Bureau of Statistics (ABS) 2018, *Australian Statistical Geography Standard (ASGS), Volume 5 – Remoteness Structure, July 2016* (cat. no. 1270.0.55.005), Canberra.

Australian Bureau of Statistics (ABS) 2018, Consumer Price Index, Australia, Mar 2018 (cat. no. 6401.0), Canberra.

Australian Bureau of Statistics (ABS) 2018, Consumer Price Index, Australia, Jun 2018 (cat. no. 6401.0), Canberra.

Australian Bureau of Statistics (ABS) 2018, Customised report, *Building Approvals, Australia, Jun 2018* (cat. no. 8731.0), Canberra.

Australian Bureau of Statistics (ABS) 2018, Customised report, Census of Population and Housing, Australia, Canberra.

Australian Bureau of Statistics (ABS) 2018, Customised report, Census of Population and Housing, Australia – Estimating Homelessness (cat. no. 2049.0), Canberra.

Australian Bureau of Statistics (ABS) 2018, Customised report, Crime Victimisation, Australia (cat. no. 4530.0), Canberra.

Australian Bureau of Statistics (ABS) 2018, Customised report, Counts of Australian Businesses, including Entries and Exits, Jun 2013 to Jun 2017 (cat. no. 8165.0), Canberra.

Australian Bureau of Statistics (ABS) 2018, Customised report, *International Merchandise Trade, Australia* (cat. no. 5422.0), Canberra.

Australian Bureau of Statistics (ABS) 2018, Customised report, *Labour Force, Australia, July* 2018, (cat no. 6202.0), Canberra.

Australian Bureau of Statistics (ABS) 2018, Customised report, *Household Income and Wealth, Australia,* 2015-16 (cat. no. 6253.0), Canberra.

Australian Bureau of Statistics (ABS) 2018, Labour Force, Australia, Detailed – Electronic Delivery, June 2018 (cat. no. 6291.0.55.001), Canberra.

Australian Bureau of Statistics (ABS) 2018, *Labour Force, Australia, Detailed, Quarterly, May* 2018 (cat. no. 6291.0.55.003).

Australian Bureau of Statistics (ABS) 2018, Regional Population Growth, Australia, 2016-17 (cat. no. 3218.0), Canberra.

Australian Curriculum, Assessment and Reporting Authority (ACARA) 2016, *National Assessment Program*, Literacy and Numeracy, National Report, 2016, Sydney.

Australian Curriculum, Assessment and Reporting Authority (ACARA) 2017, *National Assessment Program*, Literacy and Numeracy, National Report, 2017, Sydney.

Australian Electoral Commission (AEC) 2016, *Virtual Tally Room*, 2010, 2013, 2016, Canberra, accessed on 13 November 2017 from < http://results.aec.gov.au/>.

Austroads, *National Performance Indicators Data, Graph 7.3.1 AM peak congestion indicator (urban)*, Canberra, accessed on 13 November 2017 from < http://algin.net/austroads/site/Index.asp?id=70>.

Bureau of Infrastructure, Transport and Regional Economics (BITRE) 2009, Information Paper 63, *Household Wealth*, Canberra.

Bureau of Infrastructure, Transport and Regional Economics (BITRE) 2009, Working Paper 73, *Greenhouse Gas Emissions from Australian Transport: Projections to 2020*, Canberra.

Bureau of Infrastructure, Transport and Regional Economics (BITRE) 2010, Long-term Projections of Australian Transport Emissions: Base Case 2010, Canberra.

Bureau of Infrastructure, Transport and Regional Economics (BITRE) 2012, Research Report 127, *Traffic Growth in Australia*, Canberra.

Bureau of Infrastructure, Transport and Regional Economics (BITRE) 2017, Unpublished estimates of gigagrams of full fuel cycle (FFC) $\rm CO_2$ -equivalent emissions (for direct gases $\rm CO_2$, $\rm CH_4$ and $\rm N_2O$) from road vehicles operating within each capital city, Canberra.

Bureau of Infrastructure, Transport and Regional Economics (BITRE) 2018, Analysis of Melbourne Institute 2017, Unit record data, *Household, Income and Labour Dynamics in Australia (HILDA) Survey*, Melbourne.

Bureau of Infrastructure, Transport and Regional Economics (BITRE) 2017, Statistical report, *Australian Infrastructure Statistics - Yearbook 2017*, Canberra.

Bureau of Infrastructure, Transport and Regional Economics (BITRE) 2017, Unpublished data, *Australian Coastal Freight*, Canberra.

Bureau of Infrastructure, Transport and Regional Economics (BITRE) 2017, Unpublished data, *Road Vehicle-Kilometres Travelled*, Canberra.

Bureau of Infrastructure, Transport and Regional Economics (BITRE) 2018, *Airport Traffic Data*, Canberra, from https://bitre.gov.au/publications/ongoing/airport_traffic_data.aspx.

Bureau of Infrastructure, Transport and Regional Economics (BITRE) 2018, Analysis of state and territory government annual reports (averages and indexing) under the *National Environment Protection Measure for Ambient Air Quality (Air NEPM)*, Canberra.

Bureau of Infrastructure, Transport and Regional Economics (BITRE) 2018, Estimates based on Tourism Research Australia (TRA) 2018, Unit record file data, *International Visitor Survey*, Canberra.

Bureau of Infrastructure, Transport and Regional Economics (BITRE) 2018, Estimates based on Tourism Research Australia (TRA) 2018, Unit record file data, *National Visitor Survey*, Canberra.

Bureau of Infrastructure, Transport and Regional Economics (BITRE) 2018, Unpublished data, *National Crash Database*, Canberra.

Bureau of Meteorology (BOM) 2018, National Performance Report 2016-17: Urban Water Utilities, Melbourne.

Bureau of Transport and Communications Economics (BTCE) 1995, Report 88, *Greenhouse Gas Emissions from Australian Transport: Long-term projections*, Canberra.

Bureau of Transport and Regional Economics (BTRE) 2006, Report 112, Freight Measurement and Modelling in Australia, Canberra.

Bureau of Transport and Regional Economics (BTRE) 2007, Working Paper 71, Estimating Urban Traffic and Congestion Cost Trends for Australian Cities, Canberra.

CoreLogic 2018, Custom report, RP Data, Average Prices, 2007, 2012, 2017, Sydney.

Cosgrove & Mitchell 2001, Standardised Time Series for the Australian Road Transport Task, Canberra.

Department of Education and Training 2016, Australian Early Development Census (AEDC), *National Report* 2015: A Snapshot of Early Childhood Development in Australia, Canberra.

Department of the Environment and Energy 2008, *Collaborative Australian Protected Area Database*, 2008, Canberra.

Department of the Environment and Energy 2012, Collaborative Australian Protected Area Database, 2012, Canberra.

Department of the Environment and Energy 2016, *Collaborative Australian Protected Area Database*, 2016, Canberra.

Department of the Environment and Energy 2018, Australian Petroleum Statistics, Canberra.

Giles-Corti B., Ryan K., Foster S. 2012, *Increasing density in Australia: maximising the health benefits and minimising harm*, report to the National Heart Foundation of Australia, Melbourne, accessed on 27 August 2018 from https://www.heartfoundation.org.au/images/uploads/publications/Increasing-density-in-Australia-Evidence-Review-2012-trevor.pdf.

National Sustainability Council 2013, Sustainable Australia Report 2013, Conversations with the future, Canberra.

Organisation for Economic Co-operation and Development (OECD) 2013, *Measuring Well-Being and Progress, Paris*, accessed on 27 August 2018 from https://www.ituc-csi.org/IMG/pdf/better_life_index_oecd.pdf.

Organisation for Economic Co-operation and Development (OECD) 2016, *Better Life Index*, Paris, accessed on 27 August 2018 from http://www.oecdbetterlifeindex.org/>.

Organisation for Economic Co-operation and Development (OECD) 2016, *Regional Well-Being*, Paris, accessed on 27 August 2018 from https://www.oecdregionalwellbeing.org/index.html.

Productivity Commission 1998, Aspects of Structural Change in Australia, Research Paper, Melbourne.

Productivity Commission 2013, Looking Back on Structural Change in Australia: 2002–2012, Supplement to Annual Report 2011-12, Melbourne.

Stiglitz, J., Sen, A. and Fitoussi, J.P. 2009, *Report of the Commission on the Measurement of Economic Performance and Social Progress*, Paris, accessed on 27 August 2018 from http://library.bsl.org.au/jspui/bitstream/1/1267/1/Measurement_of_economic_performance_and_social_progress.pdf.

United Nations (UN) 2006, Committee of Experts on Public Administration (UNPAN), *Definition of Basic Concepts and Terminologies in Governance and Public Administration* (E/C.16/2006/4), New York.

United Nations Development Programme (UNDP) 2014, *Human Development Report 2014: Sustaining Human Progress: Reducing Vulnerabilities and Building Resilience*, United Nations Publications, New York.

Victoria Health Promotion Foundation 2012, Commute time, Indicator Overview, VicHealth Indicators Survey, Melbourne.

World Health Organization (WHO) 2017, Fact Sheet, Physical Activity, accessed on 27 August 2018 from www.who.int/mediacentre/factsheets/fs385/en/>.