Property LOCATION Profile Report

This report contains relevant address-level and location-specific environmental metrics, including elevation, slope, contours, surface water flow directions, neighbourhood vegetation, bushland, climate-warming trends, demographics and housing. Such baseline data and revealed insights are important for informed location decisions.

Property Address:

Street Number and Name: Talavera Rd
Suburb: Marsfield   **Postcode:** 2122
State: NSW
Country: Australia

Location: (longitude, latitude): 151.1109730, -33.7661440
Distance to Sydney City (e.g. Sydney Harbour Bridge): 13.3 km

Report Creator: https://www.PropertyLocation.com.au (info@PropertyLocation.com.au)
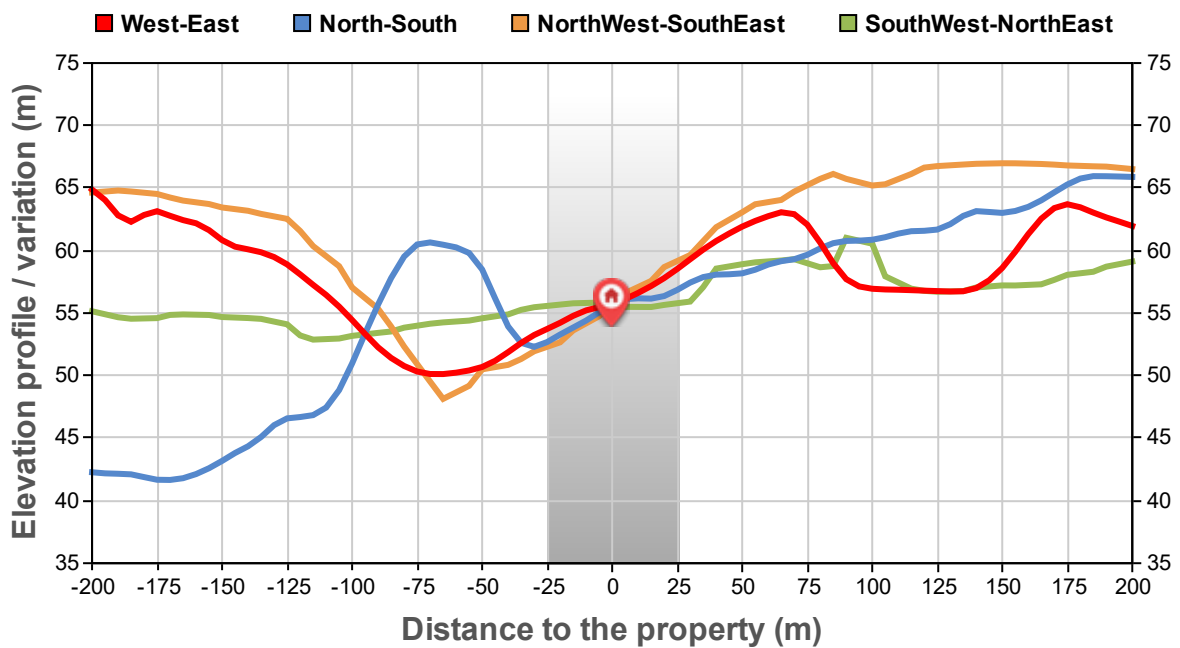Report Date: Tuesday, March 10, 2020
Report Version: V4.30
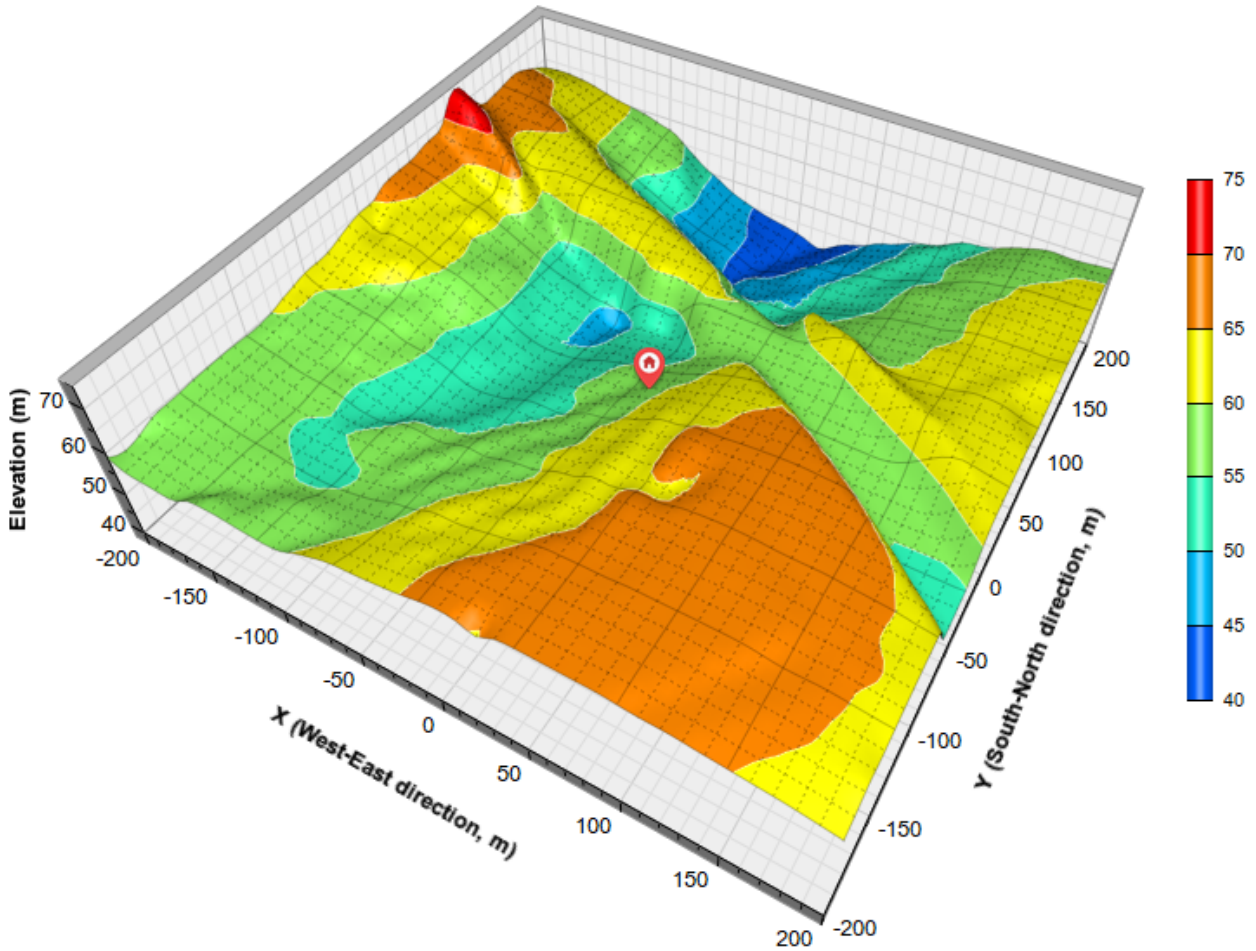
Overview: Location Imagery & Elevation Profiles

Links: This location in popular online mapping sites, e.g.
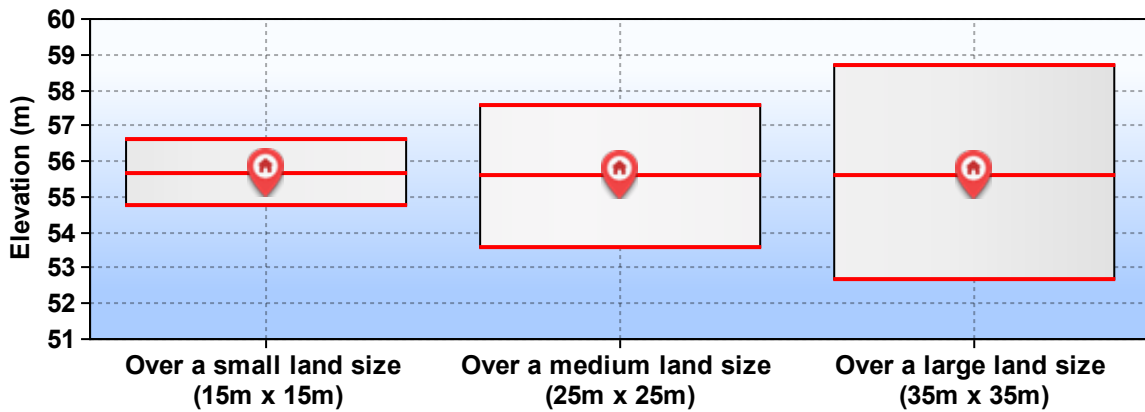
Google Maps   Bing Maps   OpenStreetMap

Site spot elevation: **55.7 m**; Slope: **7.3 degrees** (**Moderately Sloping**, see **Note 1** for slope classification). Slope impacts site stability, surface water runoff and soil erosion.

▶Average Elevation & Slope Over Various Land Sizes

Elevation Variations: Max - Average (middle bar) - Min

Over a small land size
(15m x 15m)

Over a medium land size
(25m x 25m)

Over a large land size
(35m x 35m)

Slope Variations: Max - Average (middle bar) - Min

Over a small land size
(15m x 15m)

Over a medium land size
(25m x 25m)

Over a large land size
(35m x 35m)
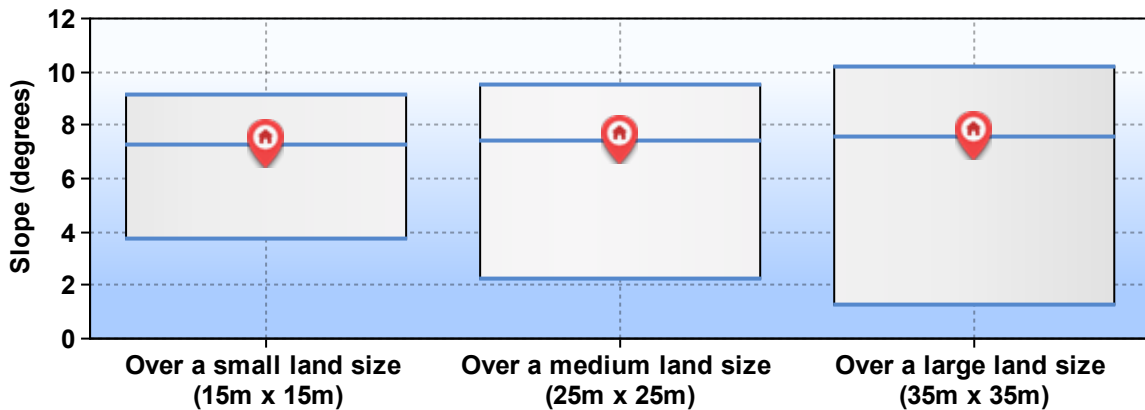
▶ Surface Water Flow Directions Related to Flash, Riverine, or Coastal Flooding
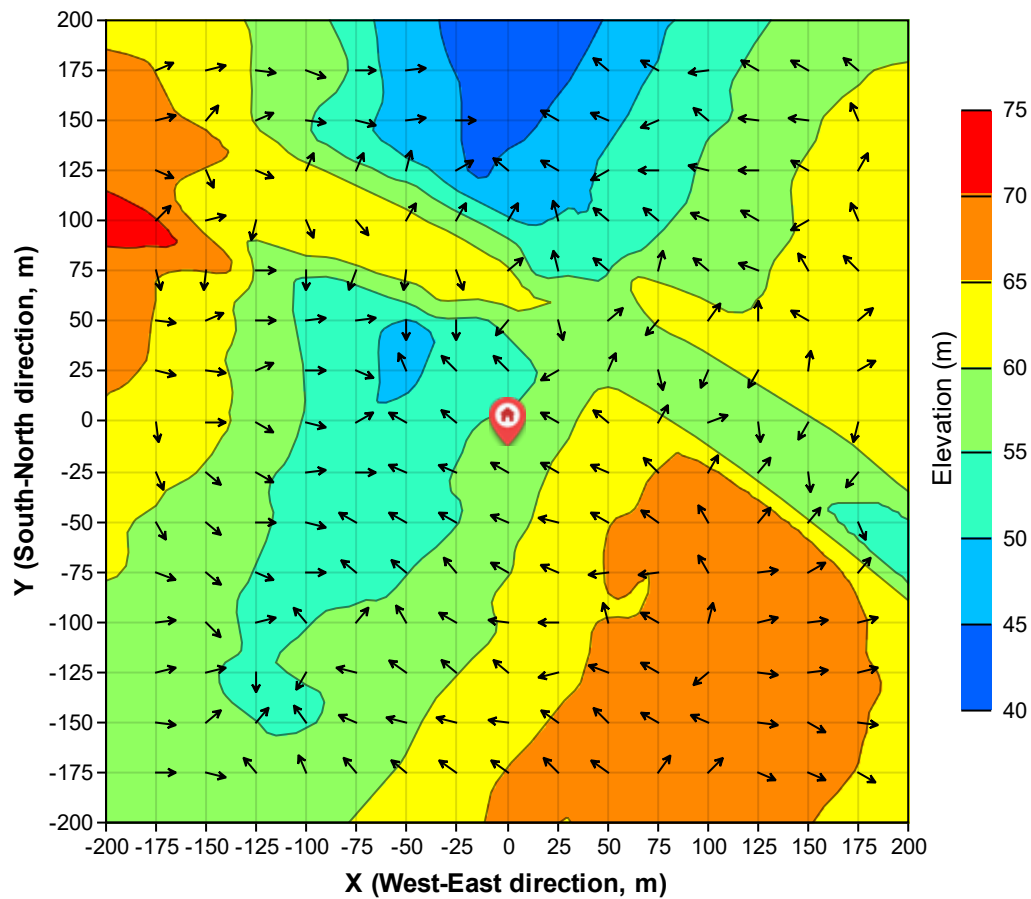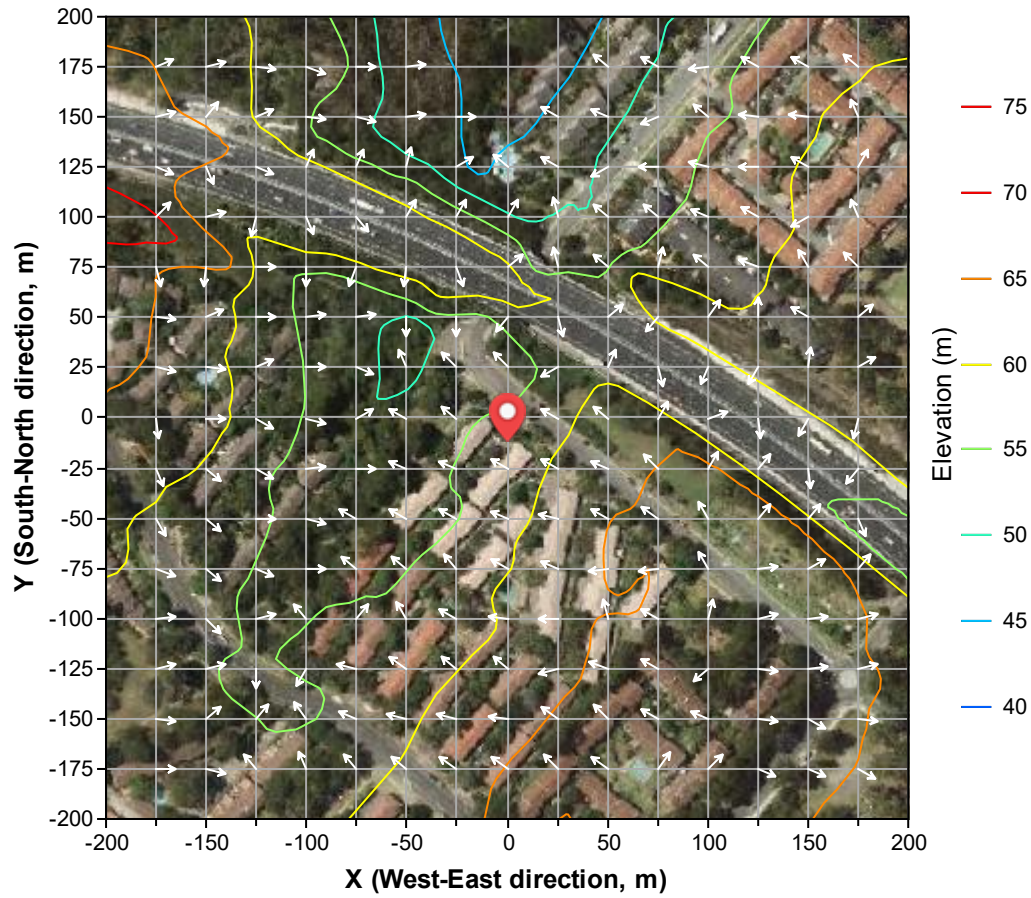
▶ Nearby Bushland & Suburb Vegetation

The distance from this address to nearby large bushland (in green) is less than **300 m**; bushfires occasionally take place in nearby bushland during the hot summer.
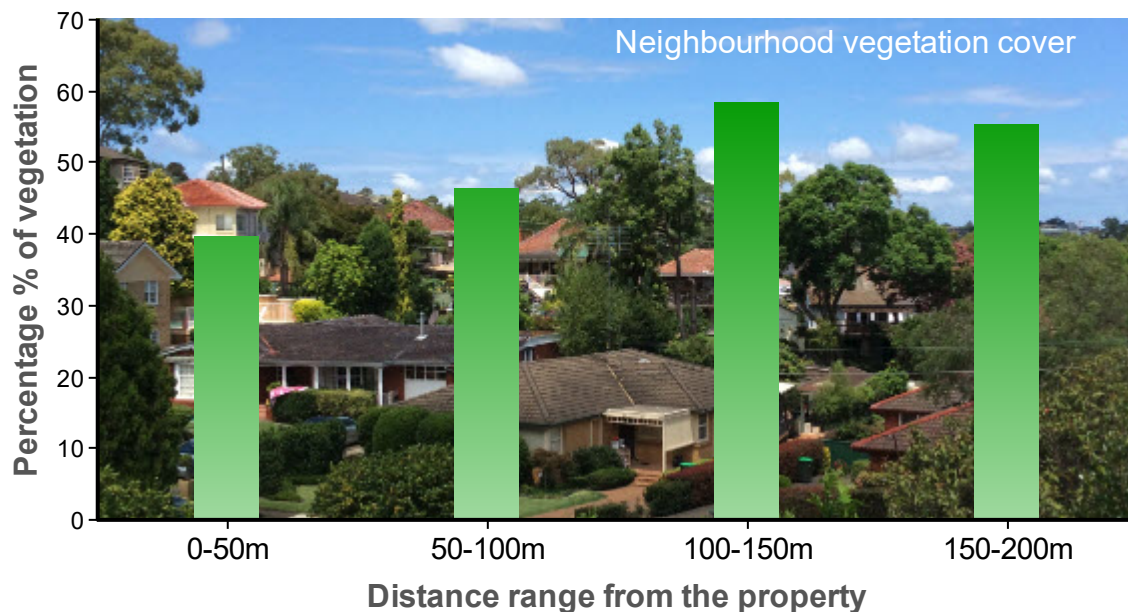
Average percentage of vegetation (trees and grasses) for the whole Postcode 2122 is **51.6**; this is ranked in the top **35.2** percent of all postcodes in the Sydney region.
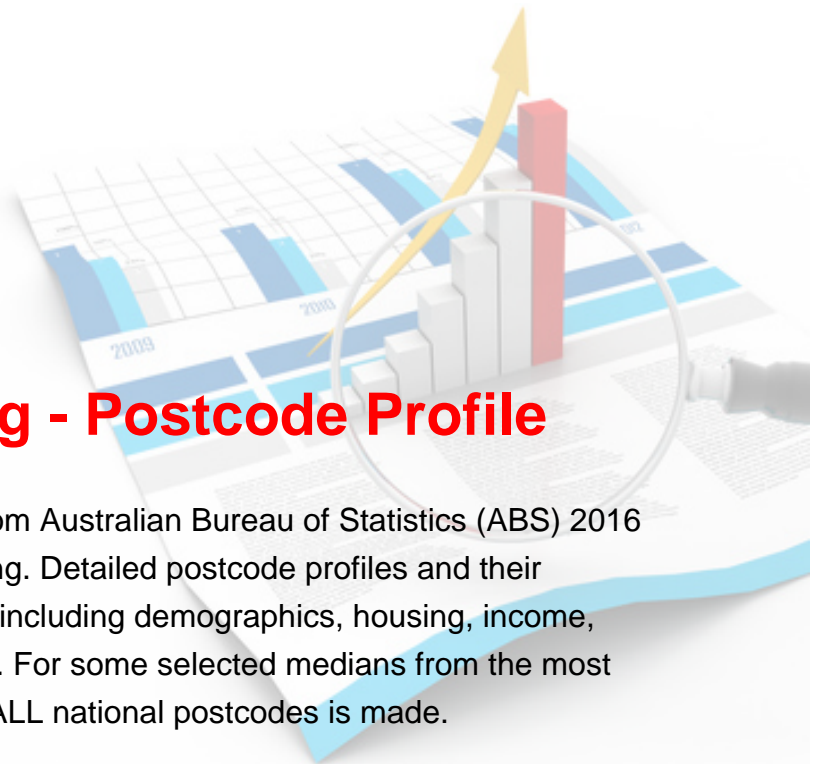
Population & Housing - Postcode Profile

This part contains postcode-level data from Australian Bureau of Statistics (ABS) 2016 & 2011 Census of Population and Housing. Detailed postcode profiles and their changes on socioeconomic background, including demographics, housing, income, employment and education, are included. For some selected medians from the most recent 2016 census, the ranking across ALL national postcodes is made.

Postcode 2122: Selected Medians and Averages

Median age of persons: 36 years (national median: 42)

Median total personal income ($/weekly): 602 (national rank: top 54.0 percentile)

Median total family income ($/weekly): 1,919 (national rank: top 23.6 percentile)

Median total household income ($/weekly): 1,645 (national rank: top 23.3 percentile)

Median mortgage repayment ($/monthly): 2,167 (national rank: top 9.9 percentile)

Median rent ($/weekly): 465 (national rank: top 5.6 percentile)

Average number of persons per bedroom: 1 (national average: 0.8)

Average household size (number of persons): 2.8 (national average: 2.5)
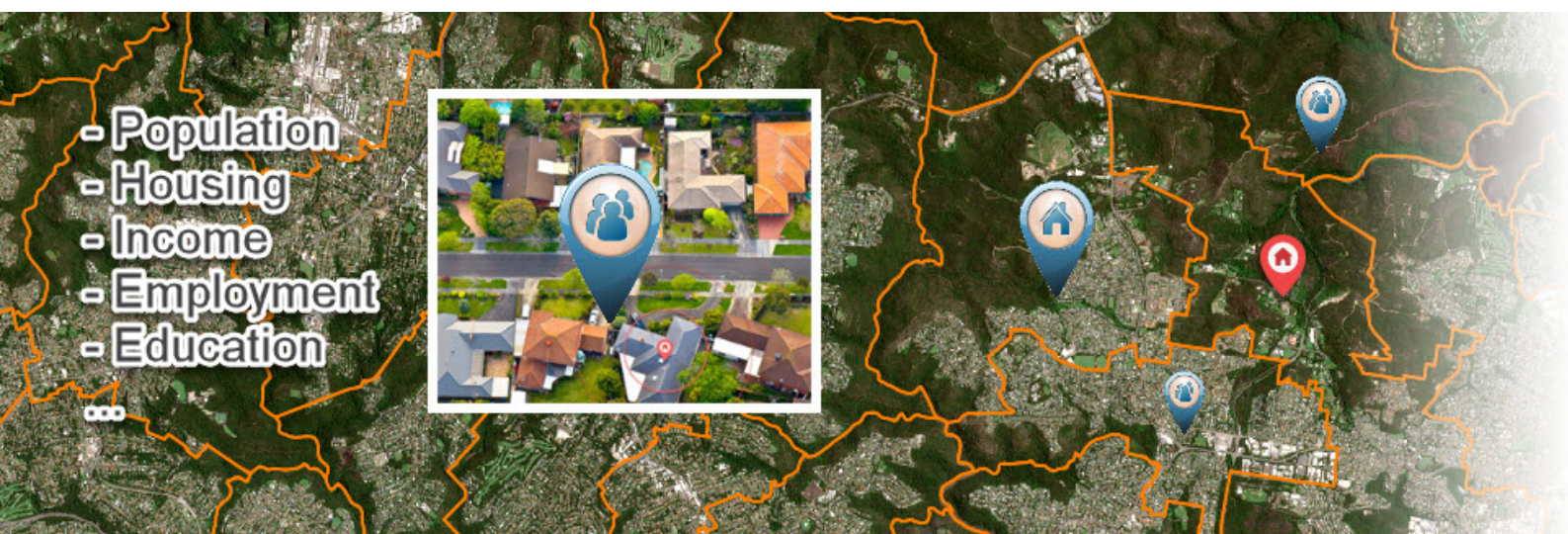
Report Creator: https://www.PropertyLocation.com.au (info@PropertyLocation.com.au)
Report Date: Tuesday, March 10, 2020
Report Version: V4.30

▶ Demographics - Age Groups 2016 vs 2011

Population: Age Groups
(Postcode: 2122; Count of persons: 31,160)

2016

Age Group	Percent
85 years & over	3.02%
75-84 years	4.85%
65-74 years	7.65%
55-64 years	11.15%
45-54 years	11.91%
35-44 years	13.13%
25-34 years	18.19%
20-24 years	10.38%
15-19 years	5.16%
5-14 years	9.10%
0-4 years	5.51%

Percent %
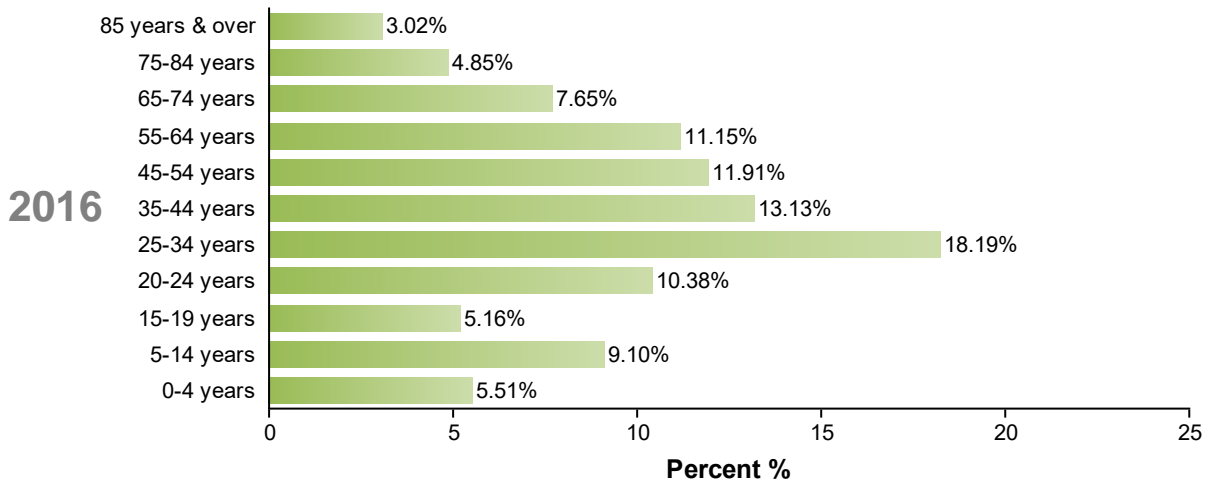
Data source: ABS 2016 Census

Population: Age Groups
(Postcode: 2122; Count of persons: 28,543)

2011

Age Group	Percent
85 years & over	2.34%
75-84 years	5.02%
65-74 years	6.87%
55-64 years	10.74%
45-54 years	13.32%
35-44 years	12.93%
25-34 years	16.35%
20-24 years	12.09%
15-19 years	5.79%
5-14 years	9.13%
0-4 years	5.43%

Percent %
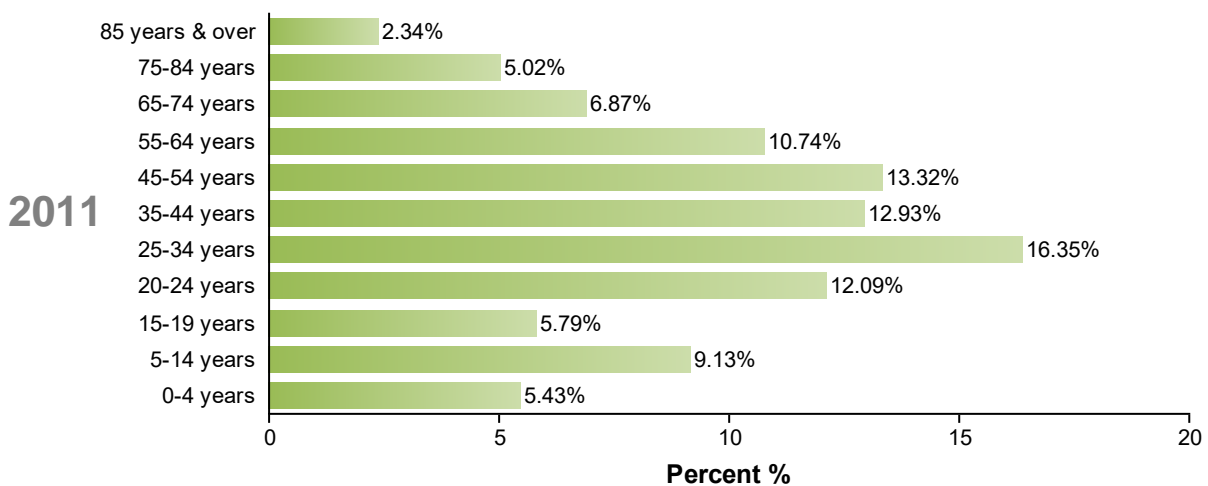
Data source: ABS 2011 Census

▶ Demographics - Country of Birth 2016 vs 2011

Population: Country of Birth
(Postcode: 2122; Count of persons: 31,151)

2016

- ■ Australia (39.18%)
- ■ China (excl. SARs and Taiwan) (23.05%)
- ■ Korea, Republic of (South) (5.74%)
- ■ Hong Kong (SAR of China) (4.28%)
- ■ India (2.75%)
- ■ Others (25.00%)
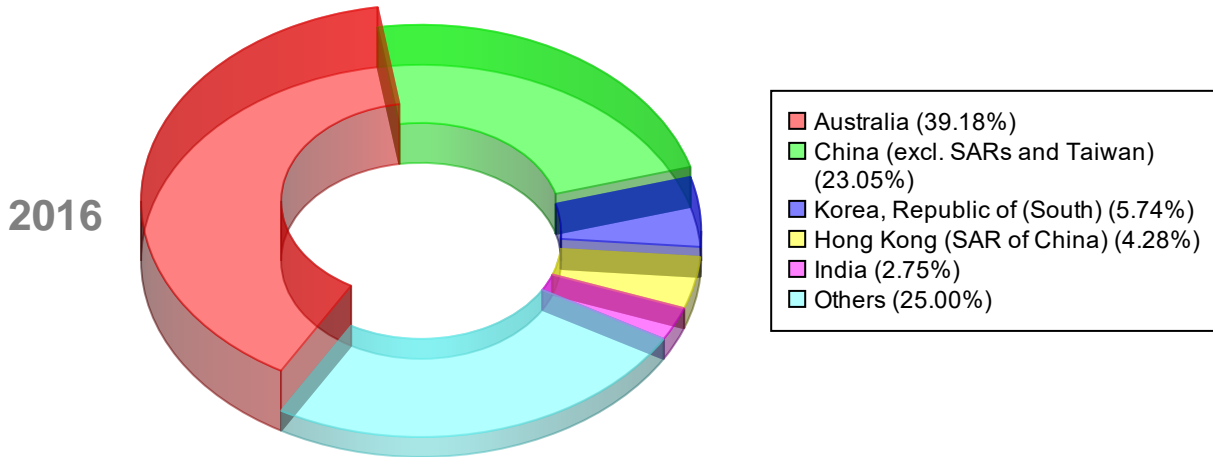
Data source: ABS 2016 Census
Others: born elsewhere & country of birth not stated

Population: Country of Birth
(Postcode: 2122; Count of persons: 28,543)

2011

- ■ Australia (42.91%)
- ■ China (excl. SARs and Taiwan) (18.39%)
- ■ Korea, Republic of (South) (5.06%)
- ■ Hong Kong (SAR of China) (4.99%)
- ■ India (2.25%)
- ■ Others (26.41%)
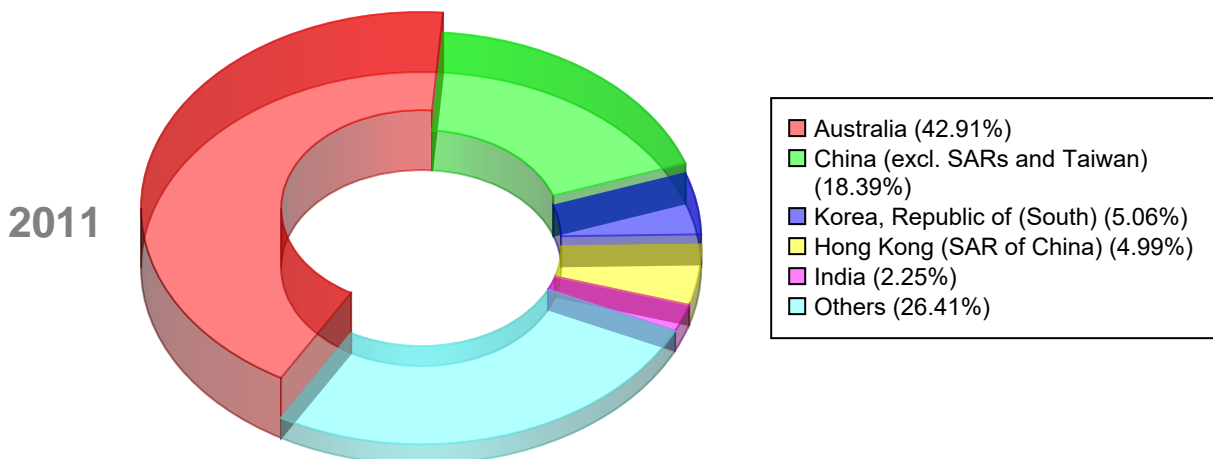
Data source: ABS 2011 Census
Others: born elsewhere & country of birth not stated

▶ Housing - Dwelling Structure 2016 vs 2011

Housing: Dwelling Structure
(Postcode: 2122; Count of occupied private dwellings: 10,663)

2016

- Separate house (45.86%)
- Semi-detached, row or terrace house, townhouse etc. (30.56%)
- Flat, unit or apartment (22.46%)
- Not stated (0.72%)
- Other dwelling (0.39%)
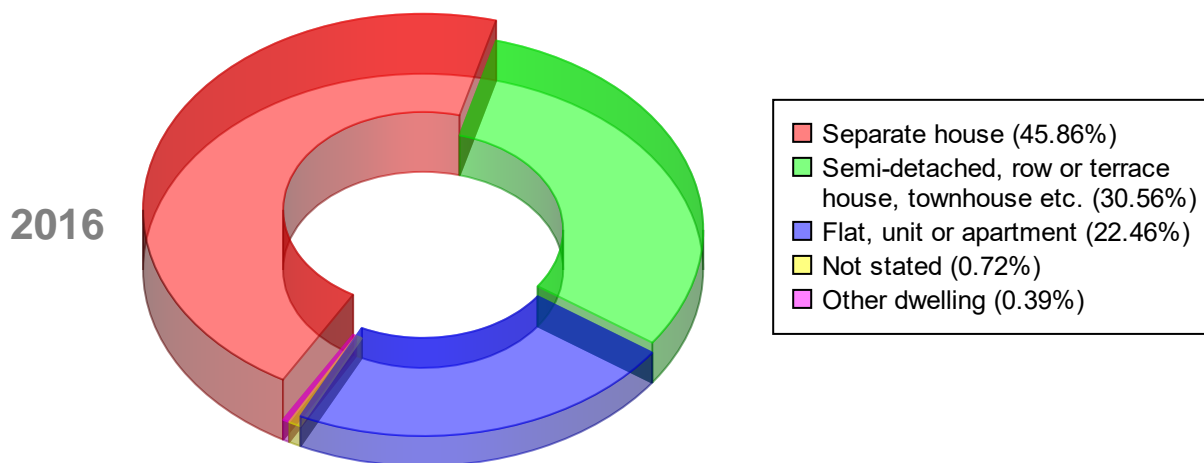
Data source: ABS 2016 Census

Housing: Dwelling Structure
(Postcode: 2122; Count of occupied private dwellings: 10,265)

2011

- Separate house (48.49%)
- Semi-detached, row or terrace house, townhouse etc. (25.88%)
- Flat, unit or apartment (25.50%)
- Not stated (0.13%)
- Other dwelling (0.00%)
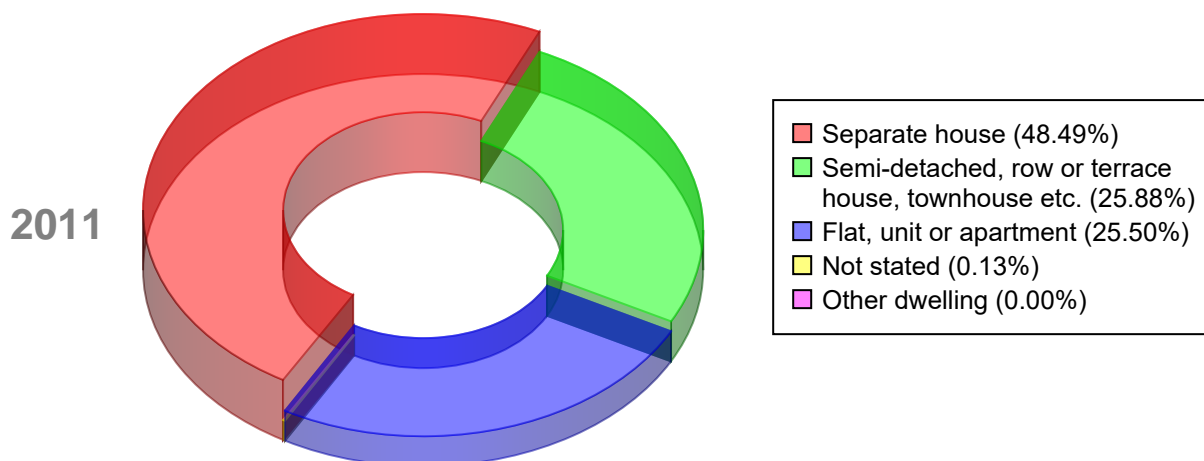
Data source: ABS 2011 Census

▶ Housing - Tenure Type and Landlord Type 2016 vs 2011

**Housing: Tenure Type and Landlord Type
(Postcode: 2122; Count of occupied private dwellings: 10,663)**

2016

- Rented (36.63%)
- Owned outright (31.17%)
- Owned with a mortgage (27.89%)
- Tenure type not stated (2.78%)
- Other tenure type (1.54%)

Data source: ABS 2016 Census

**Housing: Tenure Type and Landlord Type
(Postcode: 2122; Count of occupied private dwellings: 10,265)**

2011

- Owned outright (33.38%)
- Rented (32.85%)
- Owned with a mortgage (29.94%)
- Tenure type not stated (2.54%)
- Other tenure type (1.30%)
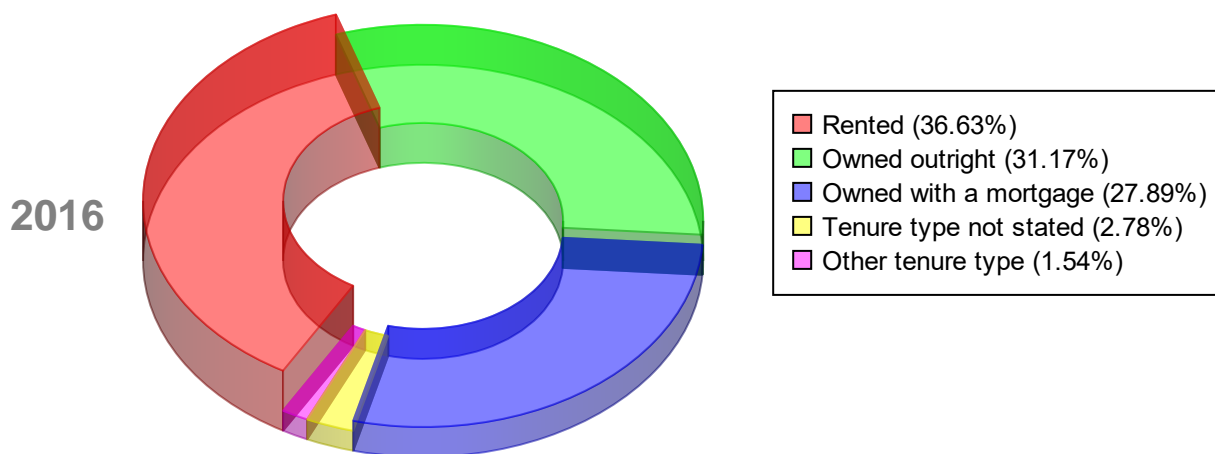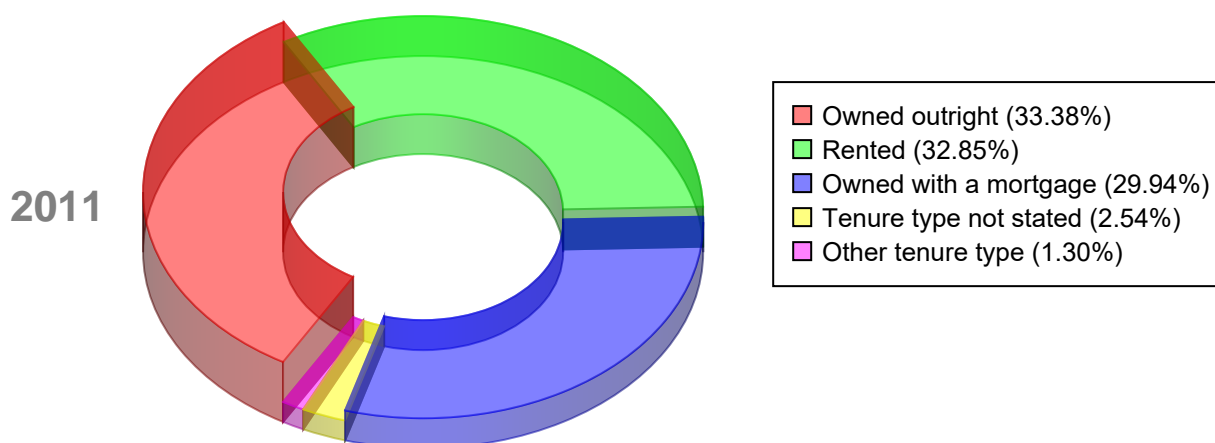
Data source: ABS 2011 Census

▶ Income - Total Family Income 2016 vs 2011

Total Family Income (weekly)
(Postcode: 2122; Count of families in family households: 7,865)

2016

Income Range	Percent
All incomes not stated	0.76%
Partial income stated	8.16%
$4,000 or more	10.77%
$3,500-$3,999	4.70%
$3,000-$3,499	6.76%
$2,500-$2,999	8.76%
$2,000-$2,499	12.71%
$1,750-$1,999	5.86%
$1,500-$1,749	6.03%
$1,250-$1,499	6.83%
$1,000-$1,249	6.65%
$800-$999	4.96%
$650-$799	5.20%
$500-$649	2.68%
$400-$499	2.47%
$300-$399	0.80%
$150-$299	1.18%
$1-$149	1.13%
Negative/Nil income	3.56%

Percent %
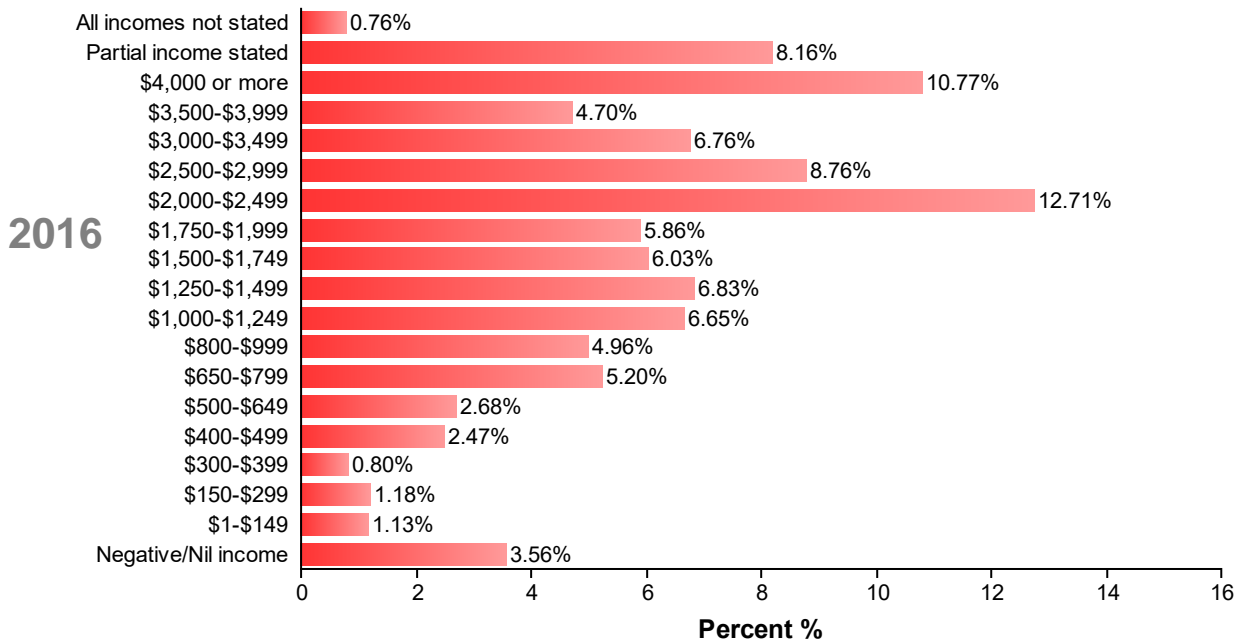
Data source: ABS 2016 Census

Total Family Income (weekly)
(Postcode: 2122; Count of families in family households: 7,348)

2011

Income Range	Percent
All incomes not stated	1.25%
Partial income stated	8.49%
$4,000 or more	6.93%
$3,500-$3,999	3.62%
$3,000-$3,499	7.84%
$2,500-$2,999	9.91%
$2,000-$2,499	9.74%
$1,500-$1,999	11.23%
$1,250-$1,499	6.97%
$1,000-$1,249	7.38%
$800-$999	6.98%
$600-$799	6.98%
$400-$599	5.95%
$300-$399	1.28%
$200-$299	0.84%
$1-$199	1.85%
Negative/Nil income	2.76%

Percent %

Data source: ABS 2011 Census

Total Personal Income (weekly)
(Postcode: 2122; Count of persons aged 15 years and over: 26,610)

2016

Income	Percent %
Personal income not stated	6.01%
$3,000 or more	2.89%
$2,000-$2,999	6.51%
$1,750-$1,999	3.64%
$1,500-$1,749	5.05%
$1,250-$1,499	5.70%
$1,000-$1,249	8.19%
$800-$999	7.00%
$650-$799	5.98%
$500-$649	6.47%
$400-$499	6.47%
$300-$399	6.78%
$150-$299	6.38%
$1-$149	4.58%
Negative/Nil income	18.38%

Data source: ABS 2016 Census

Total Personal Income (weekly)
(Postcode: 2122; Count of persons aged 15 years and over: 24,390)

2011

Income	Percent %
Personal income not stated	6.55%
$2,000 or more	7.77%
$1,500-$1,999	7.38%
$1,250-$1,499	5.39%
$1,000-$1,249	7.59%
$800-$999	7.34%
$600-$799	8.31%
$400-$599	9.64%
$300-$399	7.65%
$200-$299	7.40%
$1-$199	7.52%
Negative/Nil income	17.46%
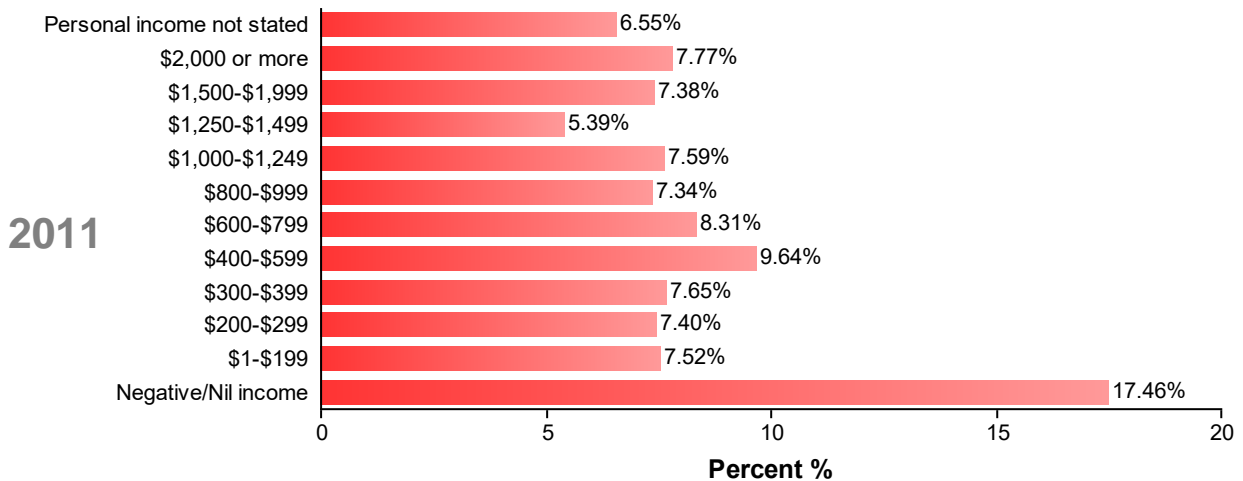
Data source: ABS 2011 Census

▶ Employment - Industry of Employment 2016 vs 2011

Industry of Employment
(Postcode: 2122; Count of employed persons aged 15 years & over: 14,163)

2016

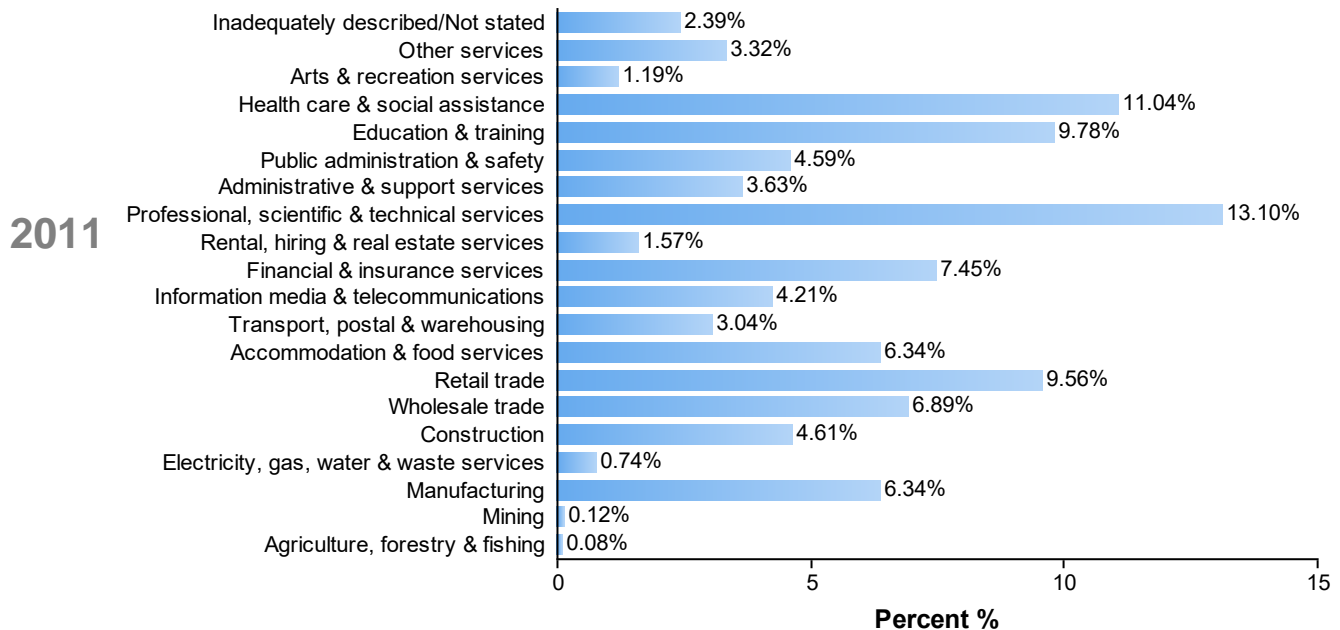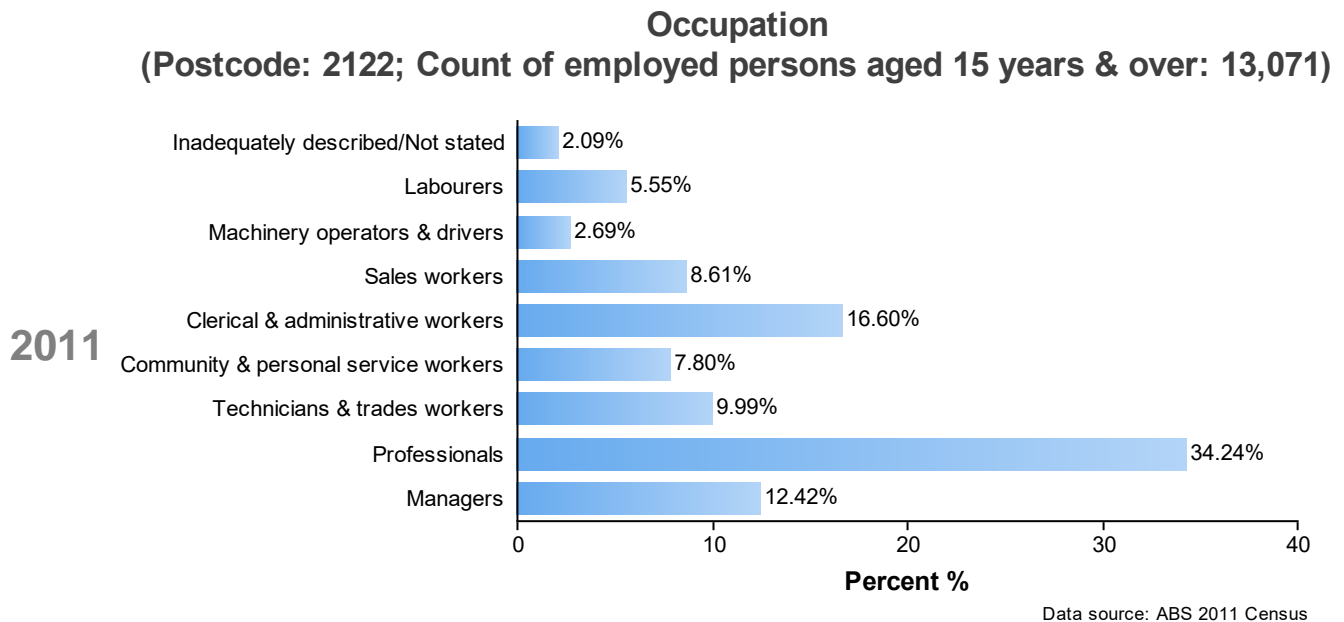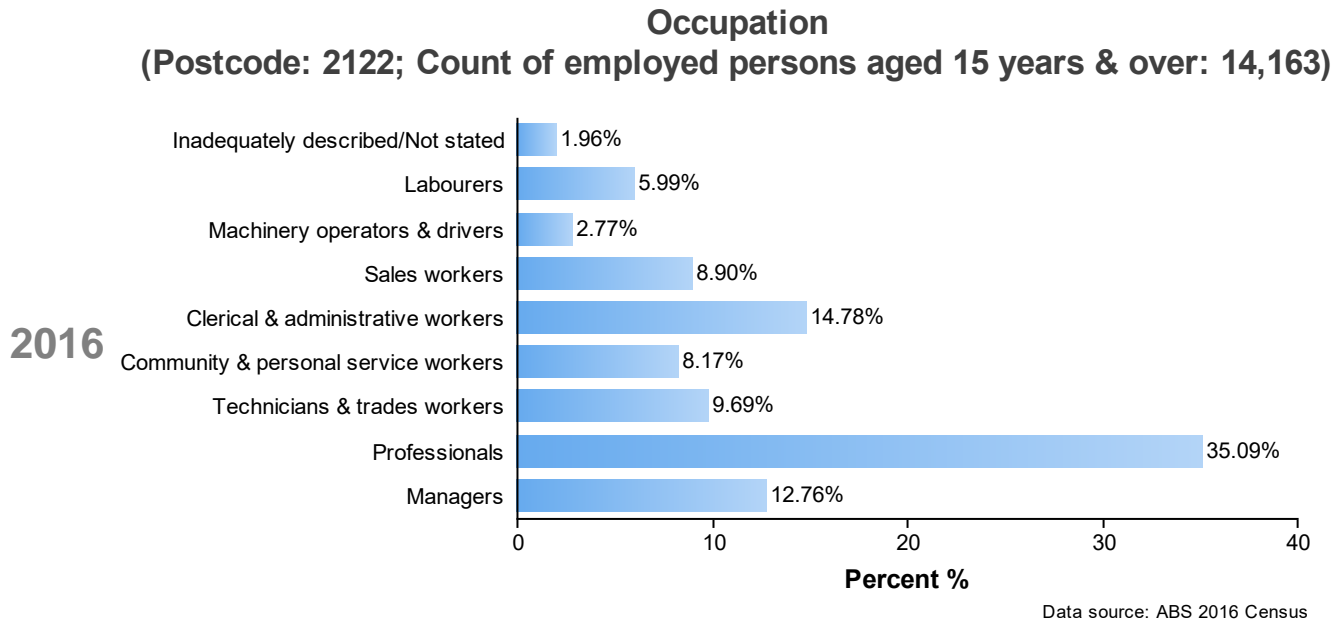| Industry	Percent
Inadequately described/Not stated	5.03%
Other services	3.13%
Arts & recreation services	1.19%
Health care & social assistance	11.75%
Education & training	9.46%
Public administration & safety	3.93%
Administrative & support services	3.52%
Professional, scientific & technical services	12.65%
Rental, hiring & real estate services	2.02%
Financial & insurance services	7.12%
Information media & telecommunications	4.09%
Transport, postal & warehousing	2.96%
Accommodation & food services	6.97%
Retail trade	9.52%
Wholesale trade	5.18%
Construction	5.49%
Electricity, gas, water & waste services	0.61%
Manufacturing	4.94%
Mining	0.12%
Agriculture, forestry & fishing	0.30%

Percent %

Data source: ABS 2016 Census

Industry of Employment
(Postcode: 2122; Count of employed persons aged 15 years & over: 13,071)

2011

Industry	Percent
Inadequately described/Not stated	2.39%
Other services	3.32%
Arts & recreation services	1.19%
Health care & social assistance	11.04%
Education & training	9.78%
Public administration & safety	4.59%
Administrative & support services	3.63%
Professional, scientific & technical services	13.10%
Rental, hiring & real estate services	1.57%
Financial & insurance services	7.45%
Information media & telecommunications	4.21%
Transport, postal & warehousing	3.04%
Accommodation & food services	6.34%
Retail trade	9.56%
Wholesale trade	6.89%
Construction	4.61%
Electricity, gas, water & waste services	0.74%
Manufacturing	6.34%
Mining	0.12%
Agriculture, forestry & fishing	0.08%

Percent %

Data source: ABS 2011 Census

▶ Employment - Occupation 2016 vs 2011

Occupation
(Postcode: 2122; Count of employed persons aged 15 years & over: 14,163)

2016

Occupation	Percent %
Inadequately described/Not stated	1.96%
Labourers	5.99%
Machinery operators & drivers	2.77%
Sales workers	8.90%
Clerical & administrative workers	14.78%
Community & personal service workers	8.17%
Technicians & trades workers	9.69%
Professionals	35.09%
Managers	12.76%

Percent %

Data source: ABS 2016 Census

Occupation
(Postcode: 2122; Count of employed persons aged 15 years & over: 13,071)

2011

Occupation	Percent %
Inadequately described/Not stated	2.09%
Labourers	5.55%
Machinery operators & drivers	2.69%
Sales workers	8.61%
Clerical & administrative workers	16.60%
Community & personal service workers	7.80%
Technicians & trades workers	9.99%
Professionals	34.24%
Managers	12.42%

Percent %
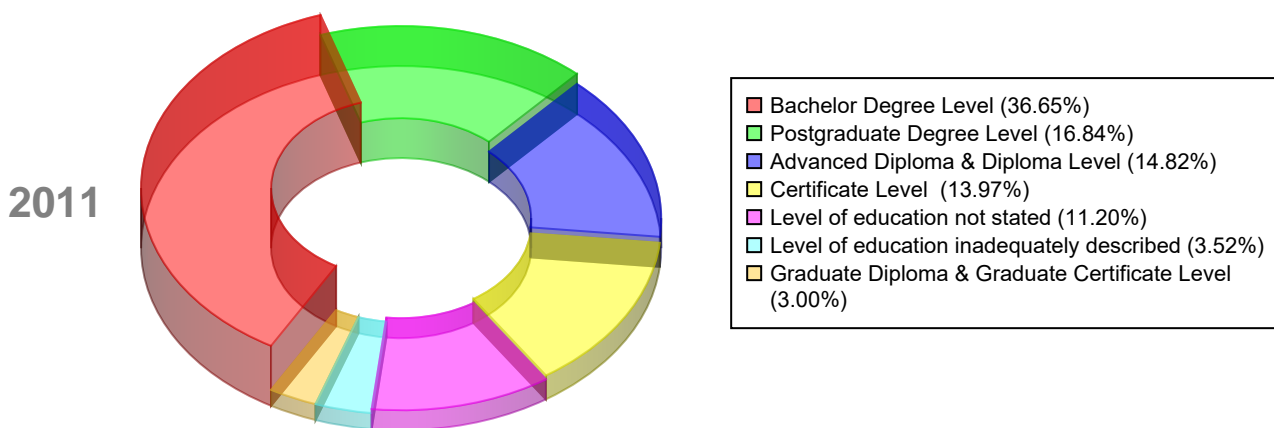
Data source: ABS 2011 Census

▶ Education - Level of Education 2016 vs 2011

Level of Education (Postcode: 2122;
Count of persons aged 15 years and over with a qualification: 17,860)

2016

- ■ Bachelor Degree Level (38.87%)
- ■ Postgraduate Degree Level (20.72%)
- ■ Advanced Diploma & Diploma Level (13.40%)
- ■ Certificate Level (13.09%)
- ■ Level of education not stated (9.22%)
- ■ Graduate Diploma & Graduate Certificate Level (2.98%)
- ■ Level of education inadequately described (1.71%)

Data source: ABS 2016 Census

Level of Education (Postcode: 2122;
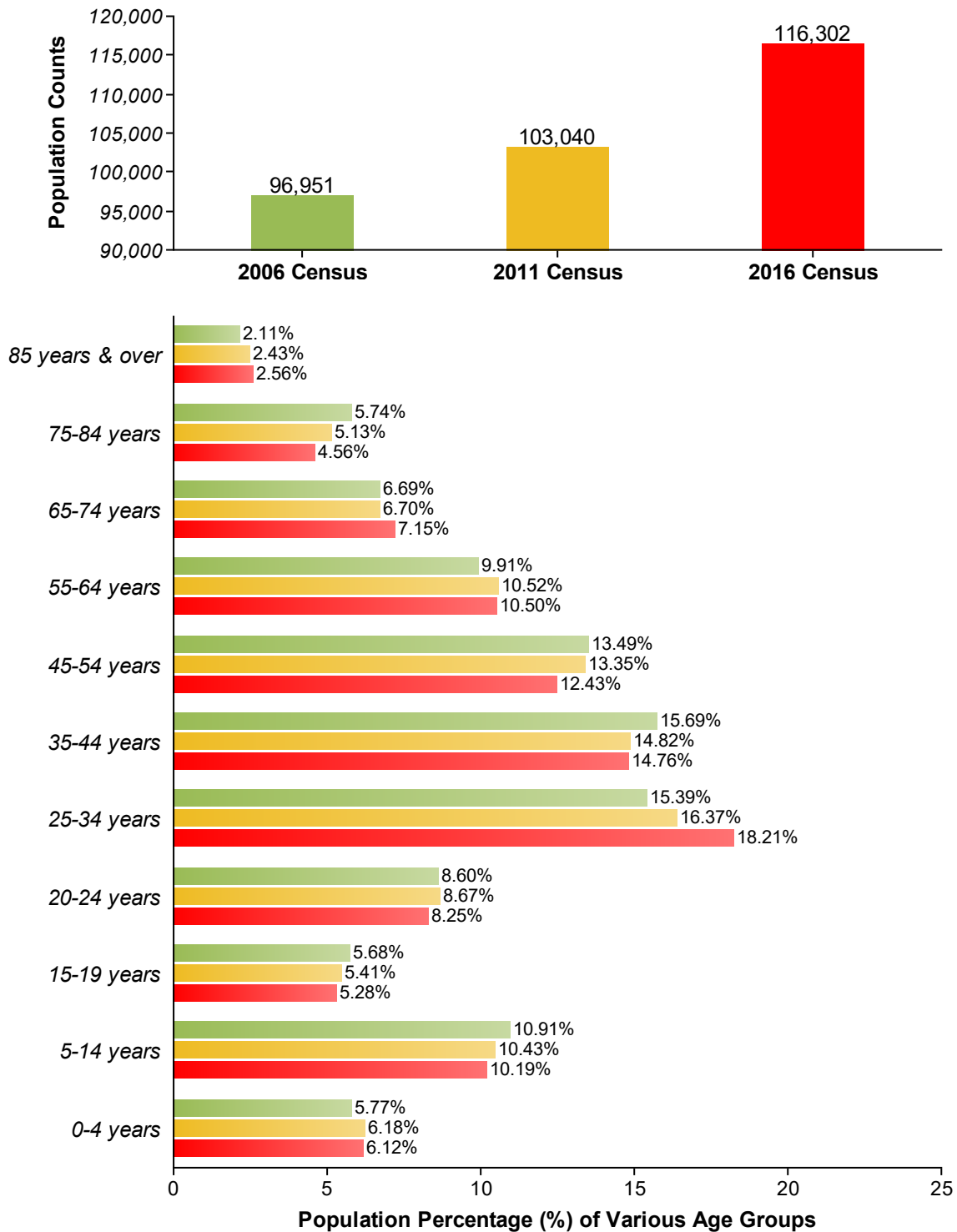## Count of persons aged 15 years and over with a qualification: 15,859)

2011

- ■ Bachelor Degree Level (36.65%)
- ■ Postgraduate Degree Level (16.84%)
- ■ Advanced Diploma & Diploma Level (14.82%)
- ■ Certificate Level (13.97%)
- ■ Level of education not stated (11.20%)
- ■ Level of education inadequately described (3.52%)
- ■ Graduate Diploma & Graduate Certificate Level (3.00%)

Data source: ABS 2011 Census

Time Series Profiles

▶ At LGA Level: Population & Age Groups

LGA: Ryde (C), New South Wales, Australia
Population Counts and Age Groups

Population Counts

Census	Population
2006 Census	96,951
2011 Census	103,040
2016 Census	116,302

Age Group	2006	2011	2016
85 years & over	2.11%	2.43%	2.56%
75-84 years	5.74%	5.13%	4.56%
65-74 years	6.69%	6.70%	7.15%
55-64 years	9.91%	10.52%	10.50%
45-54 years	13.49%	13.35%	12.43%
35-44 years	15.69%	14.82%	14.76%
25-34 years	15.39%	16.37%	18.21%
20-24 years	8.60%	8.67%	8.25%
15-19 years	5.68%	5.41%	5.28%
5-14 years	10.91%	10.43%	10.19%
0-4 years	5.77%	6.18%	6.12%

Population Percentage (%) of Various Age Groups

Data source: ABS 2016 Census, DataPacks 07/2017

▶ At LGA Level: Occupied Private Dwellings

LGA: Ryde (C), New South Wales, Australia
Occupied Private Dwellings

Dwelling Counts

Census	Count
2006 Census	37,841
2011 Census	39,157
2016 Census	43,011

Percentage (%) of Various Dwelling Structures

Dwelling Structure	2006	2011	2016
Not stated	0.03%	0.07%	0.51%
Other dwelling	0.40%	0.33%	0.40%
Flat, unit or apartment	29.98%	32.55%	36.03%
Semi-detached, row or terrace house, townhouse etc.	15.05%	14.98%	16.32%
Separate house	54.53%	52.06%	46.73%

Percentage (%) of Various Tenure Types

Tenure Type	2006	2011	2016
Not stated	7.37%	4.93%	5.37%
Other tenure type	0.85%	0.89%	0.92%
Rented	31.41%	33.26%	37.06%
Owned with a mortgage	27.48%	29.64%	28.31%
Owned outright	32.89%	31.28%	28.35%

Data source: ABS 2016 Census, DataPacks 07/2017

Local Government Area categories: Cities (C), Towns (T), Shires (S), Municipalities (M), Areas (A), Boroughs (B), District Councils (DC), Aboriginal Councils (AC), Regional Councils (R / RegC), Rural Cities (RC). According to ABS, data for the Censuses 2011 & 2006 were concorded to the LGA geographical boundaries of Census 2016.

▶ At SA Level 2: Population & Age Groups

SA2: Macquarie Park - Marsfield, New South Wales, Australia
## Population Counts and Age Groups
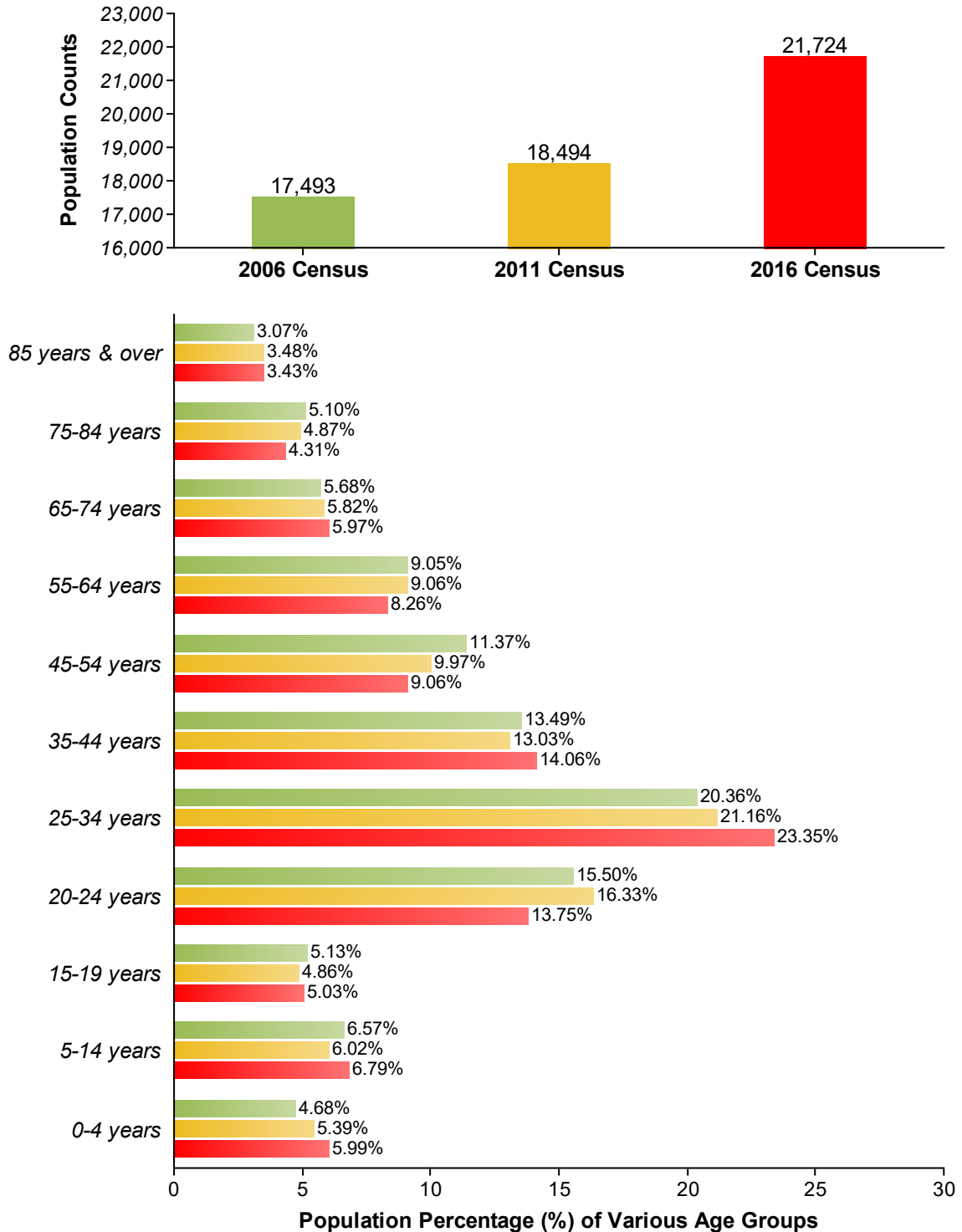
Data source: ABS 2016 Census, DataPacks 07/2017

Statistical Area Level 2 (SA2) groups communities with similar social and economic characteristics. Within cities, SA2s often represent single suburbs (as shown by SA2 names). Nationally, the total number of SA2s units (~2,300) is close to that of postcodes (~2,600).

▶ At SA Level 2: Occupied Private Dwellings

SA2: Macquarie Park - Marsfield, New South Wales, Australia
Occupied Private Dwellings
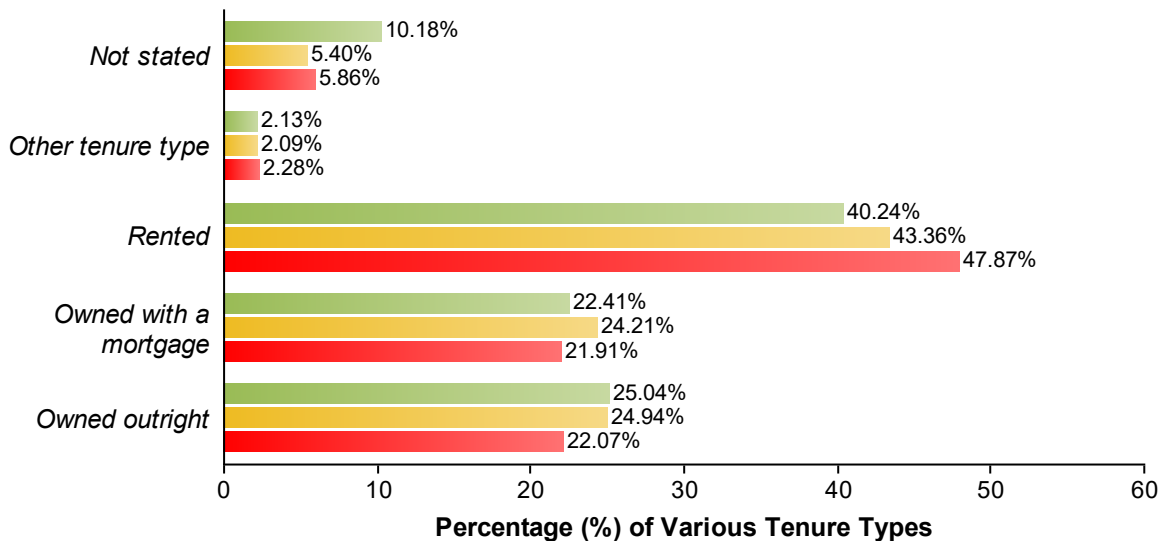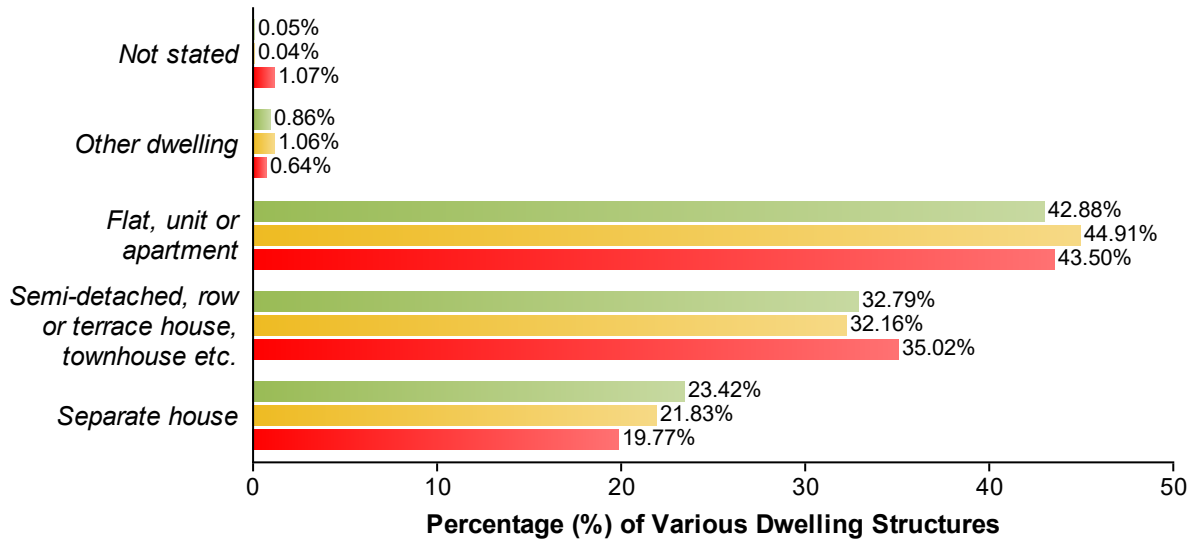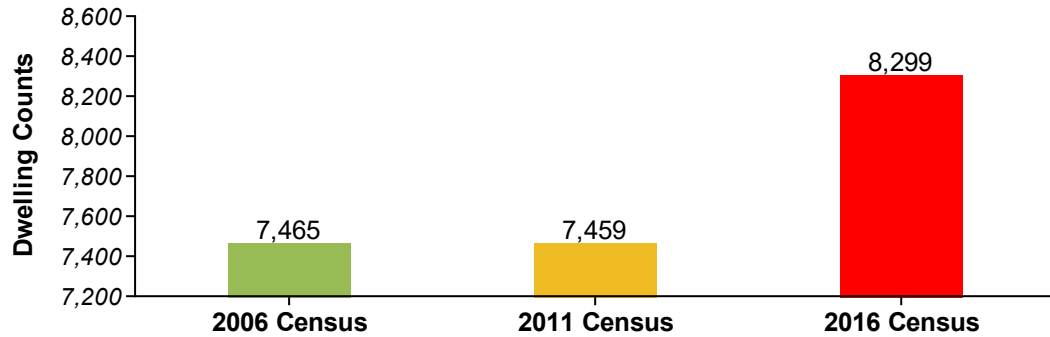
Data source: ABS 2016 Census, DataPacks 07/2017

▶ SEIFA 2016 across 5 Geographic Areas (SA1, SA2, Suburb, Postcode and LGA) with Varying Population Sizes

Socio-Economic Indexes for Areas (SEIFA), 2016

### SA1: ID 1150019; Usual Resident Population: 589
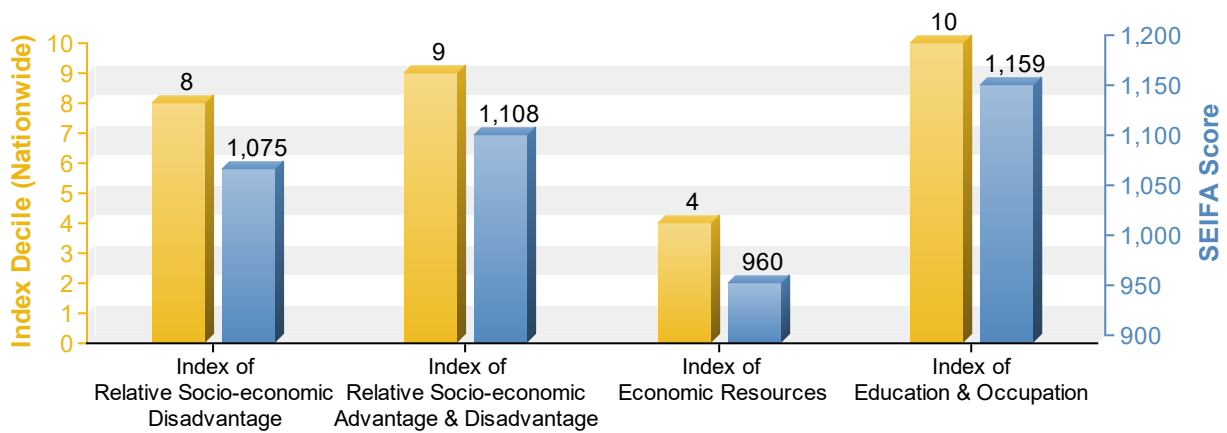
### SA2: Macquarie Park - Marsfield; Usual Resident Population: 21,724
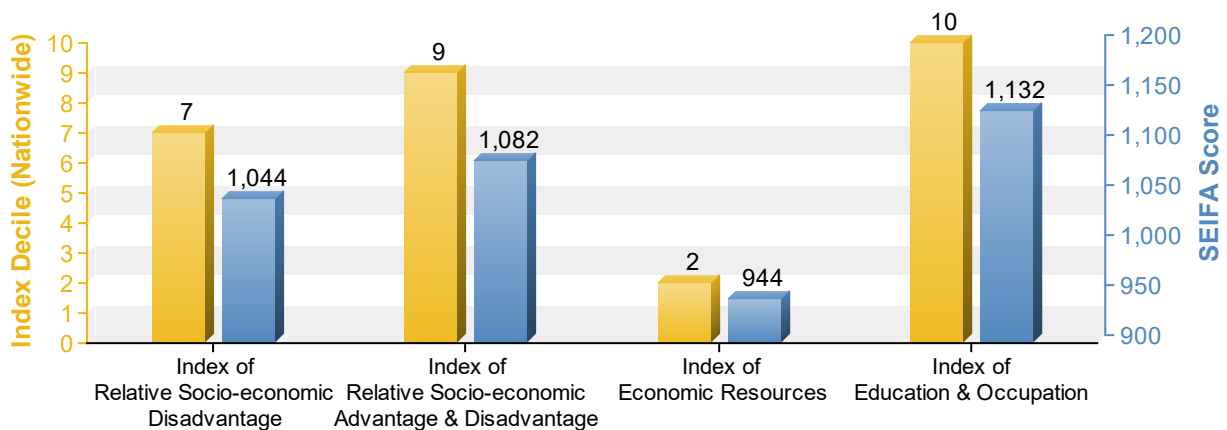
The Socio-Economic Indexes for Areas (SEIFA) is a modelled measure by integrating and summarising a wide range of social and economic attributes about the Australian population in an geographic area. SEIFA consists of four specific indexes each on slightly different aspects of the socio-economic condition: (1) the Index of Relative Socio-economic Disadvantage (IRSD); (2) the Index of Relative Socio-economic Advantage and Disadvantage (IRSAD); (3) the Index of Economic Resources (IER); and (4) the Index of Education and Occupation (IEO). An area with the highest decile (10, left y-axis) indicates the least disadvantaged, whereas an area with the lowest decile (1) the most disadvantaged (implying an area has relatively more people with low income, no qualifications or low skilled occupations). Corresponding SEIFA scores (right y-axis) are also shown; the mean for each index nationwide is 1,000. For more explanations, please follow ABS website.
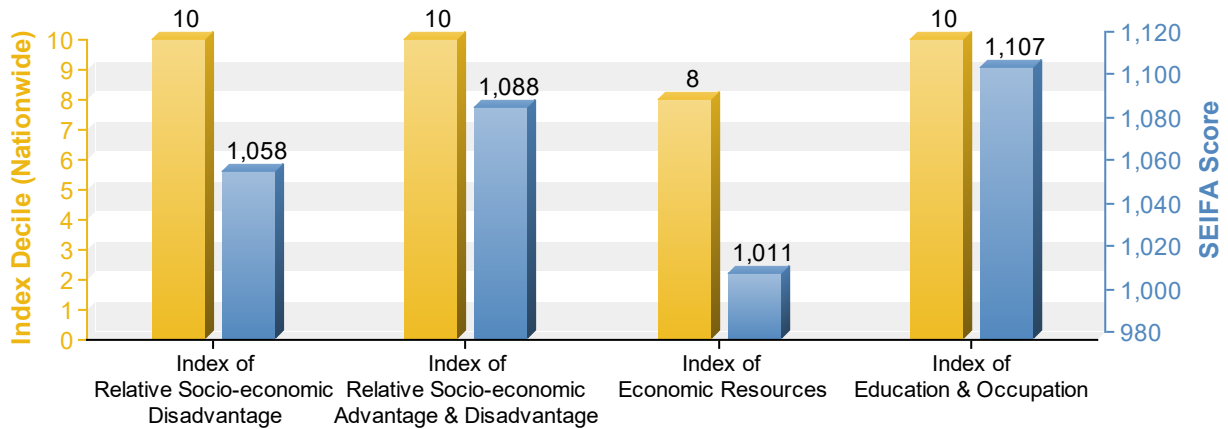
Suburb: Marsfield; Usual Resident Population: 13,297
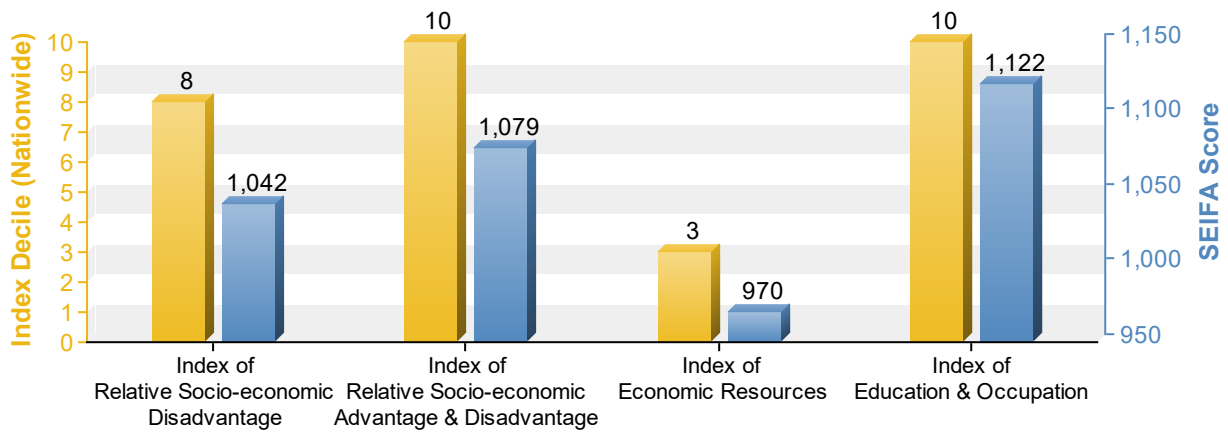
Postcode: 2122; Usual Resident Population: 31,160
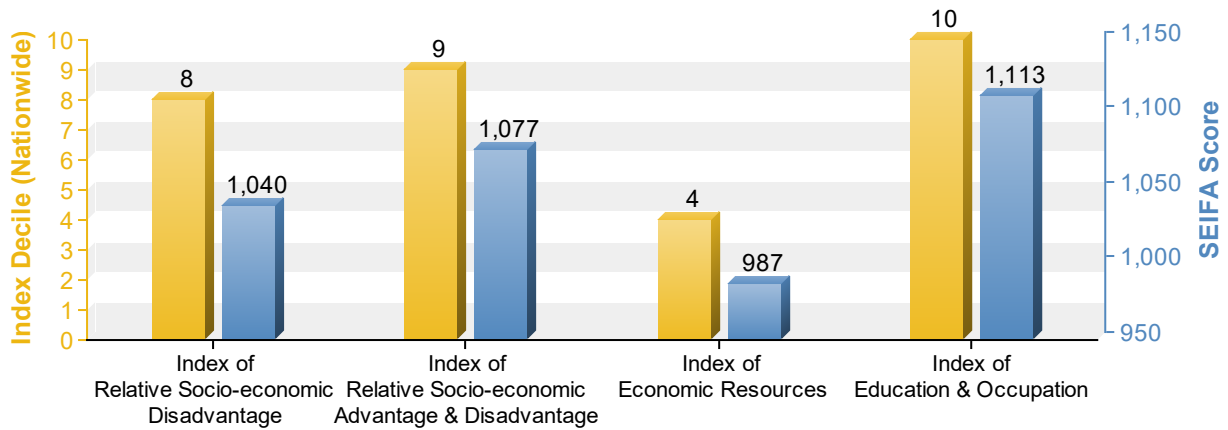
### LGA: Ryde (C); Usual Resident Population: 116,302

Data source: ABS 2016 Census, SEIFA 03/2018
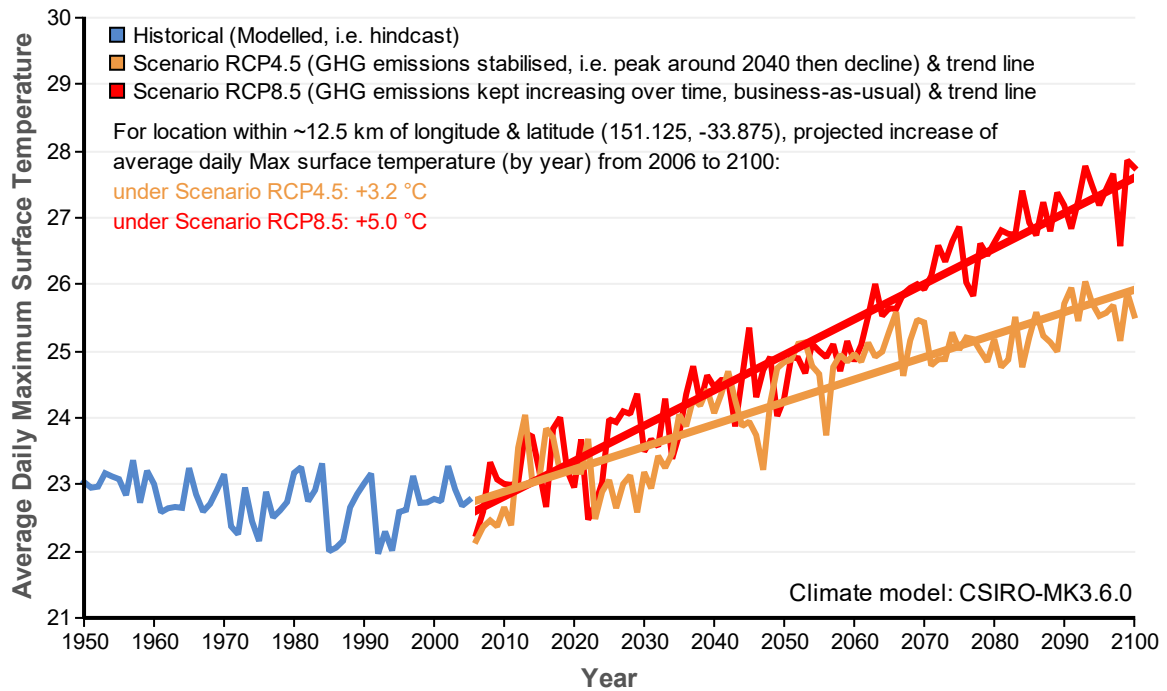
Climate-Warming Trend for the Location

This part contains climate-warming projections for the location according to the new NASA climate dataset NEX-GDDP (2015), which is widely used for climate change impact studies and increasing public awareness / understanding of a warming climate. A rapidly warming climate has significant adverse impact on the occurrence (frequency, intensity and duration) of heatwaves, bushfires and droughts that are directly driven by high surface temperatures. Projected warming trends from the well-known global climate model, CSIRO-MK.3.6.0 (by CSIRO, Australia), under two greenhouse gas emissions scenarios are presented for the property location. Average daily max and min temperatures by year and by December (the first month of summer in Australia) are compared.

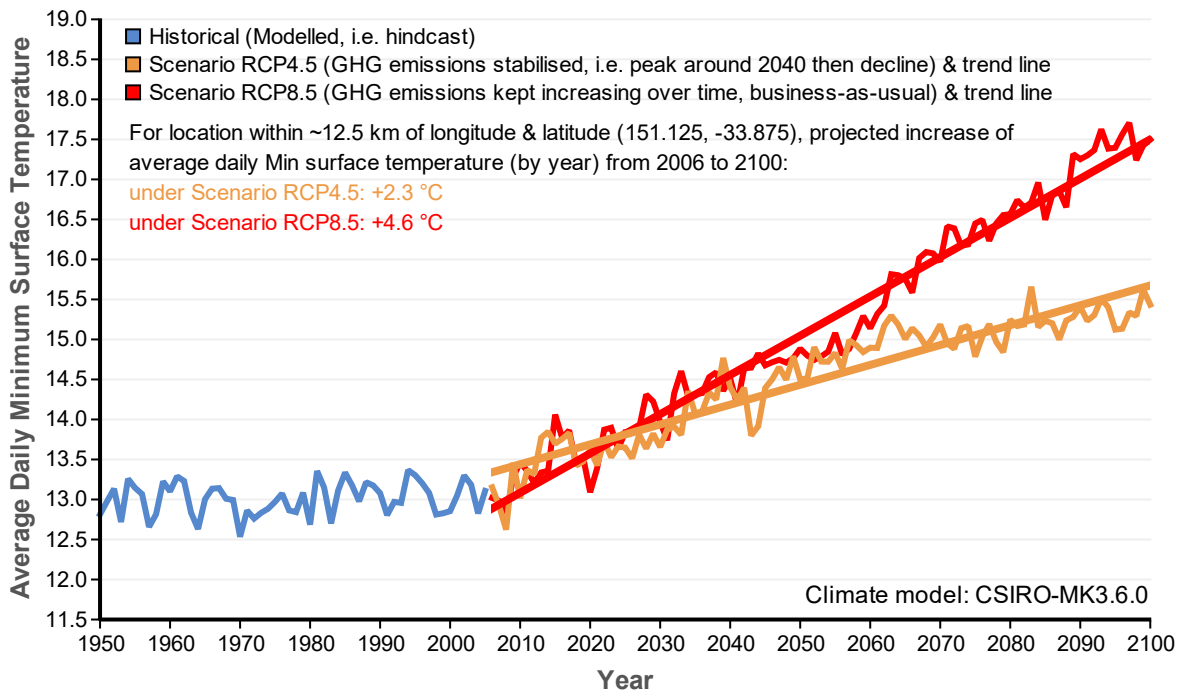## Overview: Projected Warming Trend for the Region
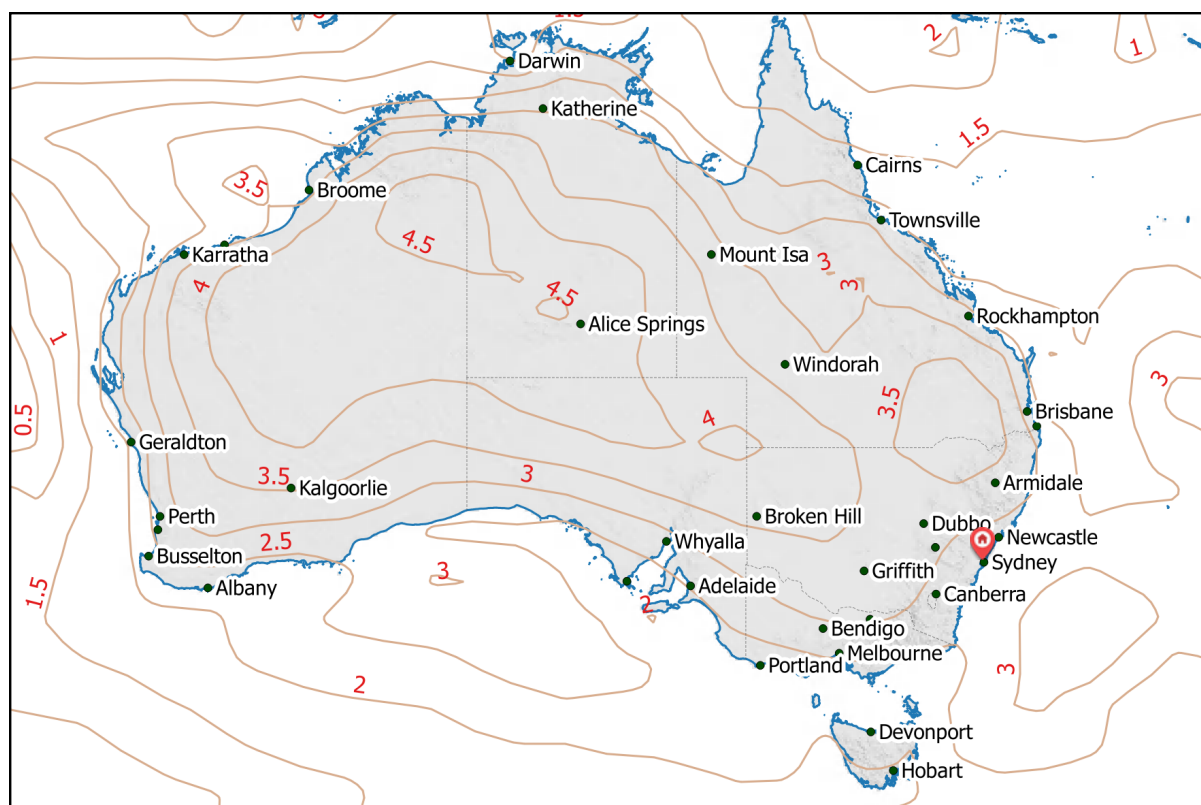
The INCREASE of average daily maximum surface temperature (by year, in degrees Celsius) across Australia from 2000 (historical hindcast) to 2100 (projected), based on the CSIRO-MK3.6.0 climate model under a moderate greenhouse gas (GHG) emissions scenario known as Representative Concentration Pathway – RCP4.5. (Data source: NASA NEX-GDDP, 2015)

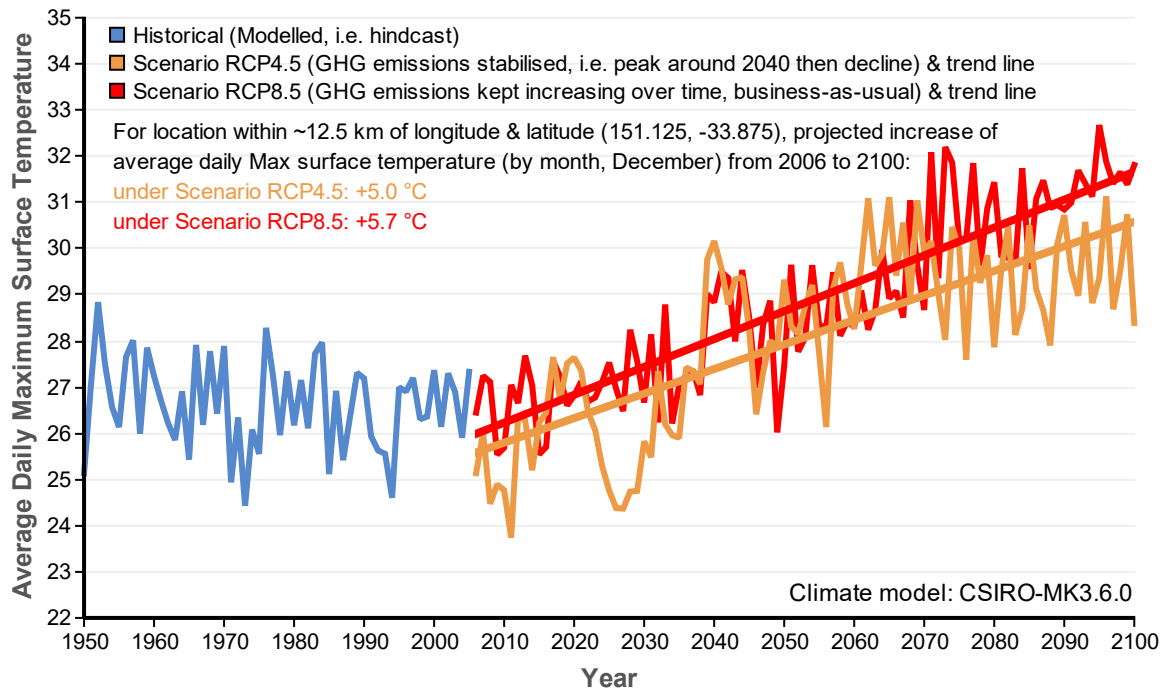## CSIRO-MK3.6.0: Average Daily Max Temperature (by year)

Average Daily Maximum Surface Temperature

- ■ Historical (Modelled, i.e. hindcast)
- ■ Scenario RCP4.5 (GHG emissions stabilised, i.e. peak around 2040 then decline) & trend line
- ■ Scenario RCP8.5 (GHG emissions kept increasing over time, business-as-usual) & trend line

For location within ~12.5 km of longitude & latitude (151.125, -33.875), projected increase of average daily Max surface temperature (by year) from 2006 to 2100:
under Scenario RCP4.5: +3.2 °C
under Scenario RCP8.5: +5.0 °C

Climate model: CSIRO-MK3.6.0

Year

CSIRO-MK3.6.0: Average Daily Min Temperature (by year)

Average Daily Minimum Surface Temperature

- ■ Historical (Modelled, i.e. hindcast)
- ■ Scenario RCP4.5 (GHG emissions stabilised, i.e. peak around 2040 then decline) & trend line
- ■ Scenario RCP8.5 (GHG emissions kept increasing over time, business-as-usual) & trend line

For location within ~12.5 km of longitude & latitude (151.125, -33.875), projected increase of average daily Min surface temperature (by year) from 2006 to 2100:
under Scenario RCP4.5: +2.3 °C
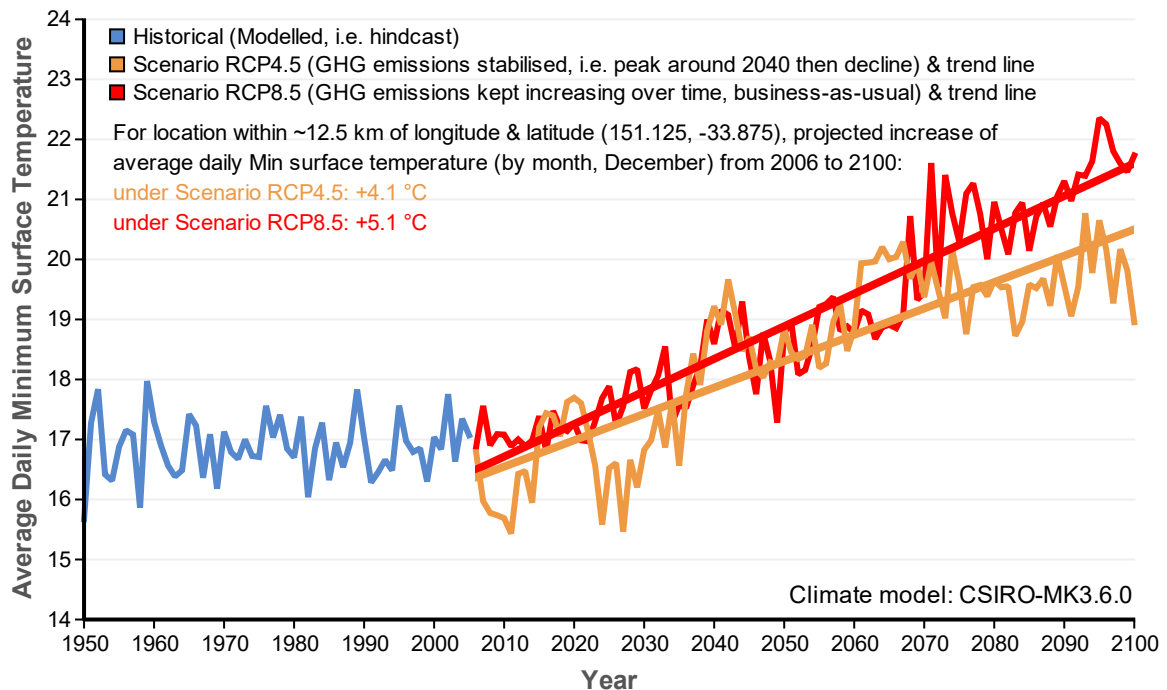under Scenario RCP8.5: +4.6 °C

Climate model: CSIRO-MK3.6.0

Year

CSIRO-MK3.6.0 climate model is developed by CSIRO Marine and Atmospheric Research (Melbourne, Australia) in collaboration with the Queensland Climate Change Centre of Excellence (Brisbane, Australia).

▶ CSIRO-MK3.6.0: Average Daily Max Temperature (by December)

Legend:
- Historical (Modelled, i.e. hindcast)
- Scenario RCP4.5 (GHG emissions stabilised, i.e. peak around 2040 then decline) & trend line
- Scenario RCP8.5 (GHG emissions kept increasing over time, business-as-usual) & trend line

For location within ~12.5 km of longitude & latitude (151.125, -33.875), projected increase of average daily Max surface temperature (by month, December) from 2006 to 2100:
under Scenario RCP4.5: +5.0 °C
under Scenario RCP8.5: +5.7 °C

Climate model: CSIRO-MK3.6.0

▶ CSIRO-MK3.6.0: Average Daily Min Temperature (by December)

Legend:
- Historical (Modelled, i.e. hindcast)
- Scenario RCP4.5 (GHG emissions stabilised, i.e. peak around 2040 then decline) & trend line
- Scenario RCP8.5 (GHG emissions kept increasing over time, business-as-usual) & trend line

For location within ~12.5 km of longitude & latitude (151.125, -33.875), projected increase of average daily Min surface temperature (by month, December) from 2006 to 2100:
under Scenario RCP4.5: +4.1 °C
under Scenario RCP8.5: +5.1 °C

Climate model: CSIRO-MK3.6.0

CSIRO-MK3.6.0 climate model is developed by CSIRO Marine and Atmospheric Research (Melbourne, Australia) in collaboration with the Queensland Climate Change Centre of Excellence (Brisbane, Australia).

Notes

1. Slope Classes: Nearly Level (slope <3%, or <1.72 degrees); Gently Sloping (3-8%, or 1.72-4.57 degrees); Moderately Sloping (8-15%, or 4.57-8.53 degrees); Strongly Sloping (15-25%, or 8.53-14.04 degrees); Steep (25-35%, or 14.04-19.29 degrees); Very Steep (>35%, or >19.29 degrees).

Acknowledgements of Data Sources

This report contains analyses, maps and charts based on a range of data sources from Australian and international government agencies:

1. Elevation - Geoscience Australia, Digital Elevation Models from ELVIS Elevation Information System. DEM at 5m resolution was analysed.
2. Vegetation - Bushland classified by BigData Earth Pty Ltd using new Landsat-8 or Sentinel-2 imagery.
3. Population and Housing - Australian Bureau of Statistics (ABS) 2016 & 2011 Census, DataPacks.
4. Climate - Climate scenarios used were from the NEX-GDDP dataset, prepared by the Climate Analytics Group and NASA Ames Research Center using the NASA Earth Exchange, and distributed by the NASA Center for Climate Simulation (NCCS).
5. Aerial Imagery - NSW government Spatial Services, ©Department Finance, Services & Innovation [2020].
6. Satellite Imagery - Sentinel-2 imagery from the European Union Copernicus Sentinel Data and Service Information. The report contains modified Copernicus Sentinel data [2020].
7. Satellite Imagery - Landsat-8 imagery from the NASA and USGS Landsat Program.

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