## © PropertyLocation ${ }^{\circ}$.Il

## Exposure LOCATION Profile Report

This report contains location-specific metrics on the environment \& hazard exposure, including elevation, slope, surface water flow directions, vegetation, climate and demographics. Such baseline data are important for applications in emergency, insurance, real estate, news reporting, etc. when making informed location decisions.

## Property Address:

Street Number and Name: Vincent Rd
Suburb: Cranebrook Postcode: 2749
State: NSW
Country: Australia

Location: (longitude, latitude): 150.7234659, -33.7059431
Distance to Capital City (e.g. Parliament House, Canberra): 230.7 km


Report Creator: https://www.PropertyLocation.com.au (info@PropertyLocation.com.au)
Report Date: Friday, April 13, 2018
Report Version: V4.30

## Overview: Location Imagery \& Elevation Profiles



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


Site spot elevation: $\mathbf{4 8 . 9} \mathbf{~ m}$; Slope: $\mathbf{2 . 3}$ degrees (Gently 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


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


Surface Water Flow Directions Related to Flash, Riverine, or Coastal Flooding



## -Surrounding Bushland



The distance from this address to nearby large bushland is less than 100 m ; bushfires occasionally take place in nearby bushland during the hot summer.


The percentage of bushland cover at various distance ranges from the property.

## $\bigcirc_{\text {Propeth }}$ Location ${ }^{\circ}$.ll

## 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 CSIROMK3.6.0 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)



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



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



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).

Estimating Exposure at Risk from Multiple Perspectives (Analysis based on 02/2018 Geocoded National Address File)

## A1: All Addresses, All Directions




| Distance (km) | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | 1,009 | 3,531 | 4,455 | 3,305 | 6,432 | 11,993 | 16,963 | 14,767 | 19,450 | 17,524 |
| Cumulative \# | 1,009 | 4,540 | 8,995 | 12,300 | 18,732 | 30,725 | 47,688 | 62,455 | 81,905 | 99,429 |

## A2: All Addresses, Four Sections / Quadrants



10km


| Distance (m) | $\mathbf{1 0 0}$ | $\mathbf{2 0 0}$ | $\mathbf{3 0 0}$ | 400 | 500 | $\mathbf{6 0 0}$ | $\mathbf{7 0 0}$ | 800 | 900 | 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \# N-E | 0 | 0 | 2 | 2 | 5 | 8 | 9 | 12 | 16 | 27 |
| \# S-E | 16 | 38 | 38 | 38 | 38 | 40 | 53 | 56 | 71 | 87 |
| \# S-W | 9 | 49 | 109 | 152 | 208 | 318 | 411 | 565 | 744 | 863 |
| \# N-W | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 13 | 24 | 32 |


| Distance (km) | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \# N-E | 27 | 160 | 390 | 608 | 917 | 1,477 | 2,413 | 3,074 | 5,355 | 6,515 |
| \# S-E | 87 | 1,595 | 3,466 | 4,317 | 7,514 | 11,818 | 19,040 | 25,008 | 34,937 | 45,220 |
| \# S-W | 863 | 2,604 | 4,771 | 6,789 | 9,455 | 16,409 | 24,982 | 32,792 | 39,568 | 45,217 |
| \# N-W | 32 | 181 | 368 | 586 | 846 | 1,021 | 1,253 | 1,581 | 2,045 | 2,477 |

## A3: All Addresses, Directional Impact Areas

1km



| Distance (m) | $\mathbf{1 0 0}$ | $\mathbf{2 0 0}$ | $\mathbf{3 0 0}$ | $\mathbf{4 0 0}$ | $\mathbf{5 0 0}$ | $\mathbf{6 0 0}$ | $\mathbf{7 0 0}$ | $\mathbf{8 0 0}$ | $\mathbf{9 0 0}$ | $\mathbf{1 0 0 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | 25 | 43 | 60 | 43 | 56 | 110 | 100 | 165 | 200 | 138 |
| Cumulative \# | 25 | 68 | 128 | 171 | 227 | 337 | 437 | 602 | 802 | 940 |


| Distance (km) | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | 940 | 2,126 | 2,600 | 2,448 | 3,650 | 8,778 | 10,342 | 8,873 | 6,944 | 5,855 |
| Cumulative \# | 940 | 3,066 | 5,666 | 8,114 | 11,764 | 20,542 | 30,884 | 39,757 | 46,701 | 52,556 |

## B1: Residential Addresses Only, All Directions

10km



| Distance (m) | $\mathbf{1 0 0}$ | $\mathbf{2 0 0}$ | $\mathbf{3 0 0}$ | $\mathbf{4 0 0}$ | $\mathbf{5 0 0}$ | $\mathbf{6 0 0}$ | $\mathbf{7 0 0}$ | $\mathbf{8 0 0}$ | $\mathbf{9 0 0}$ | $\mathbf{1 0 0 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | 25 | 43 | 59 | 42 | 51 | 103 | 93 | 139 | 195 | 138 |
| Cumulative \# | 25 | 68 | 127 | 169 | 220 | 323 | 416 | 555 | 750 | 888 |


| Distance (km) | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | 888 | 3,225 | 3,859 | 2,503 | 4,548 | 8,118 | 14,265 | 11,262 | 15,170 | 15,878 |
| Cumulative \# | 888 | 4,113 | 7,972 | 10,475 | 15,023 | 23,141 | 37,406 | 48,668 | 63,838 | 79,716 |

## B2: Residential Addresses Only, Four Sections / Quadrants




| Distance (m) | $\mathbf{1 0 0}$ | $\mathbf{2 0 0}$ | $\mathbf{3 0 0}$ | $\mathbf{4 0 0}$ | $\mathbf{5 0 0}$ | $\mathbf{6 0 0}$ | $\mathbf{7 0 0}$ | $\mathbf{8 0 0}$ | $\mathbf{9 0 0}$ | $\mathbf{1 0 0 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \# N-E | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \# S-E | 16 | 19 | 19 | 19 | 19 | 19 | 19 | 21 | 32 | 43 |
| \# S-W | 9 | 49 | 108 | 150 | 201 | 304 | 393 | 521 | 695 | 814 |
| \# N-W | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 13 | 23 | 31 |


| Distance (km) | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \# N-E | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | 253 | 289 | 465 | 1,072 |
| \# S-E | 43 | 1,490 | 3,274 | 3,917 | 6,478 | 10,428 | 16,425 | 21,215 | 29,829 | 39,519 |
| \# S-W | 814 | 2,521 | 4,583 | 6,443 | 8,430 | 12,562 | 20,474 | 26,747 | 32,842 | 38,174 |
| \# N-W | 31 | 102 | 115 | 115 | 115 | 151 | 254 | 417 | 702 | 951 |

## B3: Residential Addresses Only, Directional Impact Areas





| Distance (m) | $\mathbf{1 0 0}$ | $\mathbf{2 0 0}$ | $\mathbf{3 0 0}$ | $\mathbf{4 0 0}$ | $\mathbf{5 0 0}$ | $\mathbf{6 0 0}$ | 700 | 800 | 900 | $\mathbf{1 0 0 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | 25 | 43 | 59 | 42 | 51 | 103 | 93 | 139 | 195 | 138 |
| Cumulative \# | 25 | 68 | 127 | 169 | 220 | 323 | 416 | 555 | 750 | 888 |


| Distance (km) | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | 888 | 2,087 | 2,491 | 2,279 | 2,963 | 5,927 | 9,602 | 6,609 | 6,170 | 5,385 |
| Cumulative \# | 888 | 2,975 | 5,466 | 7,745 | 10,708 | 16,635 | 26,237 | 32,846 | 39,016 | 44,401 |

## C1: Commercial Addresses Only, All Directions



10km


| Distance (m) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cumulative \# | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Distance (km) | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | $\mathbf{0}$ | 0 | 0 | 0 | 5 | 2,253 | 626 | 69 | 684 | $\mathbf{1 2 7}$ |
| Cumulative \# | 0 | 0 | 0 | 0 | 5 | 2,258 | 2,884 | 2,953 | 3,637 | 3,764 |

## C2: Commercial Addresses Only, Four Sections / Quadrants



## 10km



| Distance (m) | $\mathbf{1 0 0}$ | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \# N-E | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \# S-E | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \# S-W | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \# N-W | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Distance (km) | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \# N-E | $\mathbf{0}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \# S-E | 0 | 0 | 0 | 0 | 5 | 17 | 312 | 381 | 1,065 | 1,192 |
| \# S-W | 0 | 0 | 0 | 0 | 0 | 2,241 | 2,572 | 2,572 | 2,572 | 2,572 |
| \# N-W | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## C3: Commercial Addresses Only, Directional Impact Areas

S

10km


| Distance (m) | $\mathbf{1 0 0}$ | $\mathbf{2 0 0}$ | $\mathbf{3 0 0}$ | $\mathbf{4 0 0}$ | $\mathbf{5 0 0}$ | $\mathbf{6 0 0}$ | $\mathbf{7 0 0}$ | $\mathbf{8 0 0}$ | $\mathbf{9 0 0}$ | 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cumulative \# | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Distance (km) | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | 2,241 | 331 | 0 | 0 | $\mathbf{0}$ |
| Cumulative \# | $\mathbf{0}$ | $\mathbf{0}$ | 0 | 0 | 0 | 2,241 | 2,572 | 2,572 | 2,572 | 2,572 |

## D1: Industrial Addresses Only, All Directions



10km


| Distance (m) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cumulative \# | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Distance (km) | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | 0 | 0 | 0 | 124 | 637 | 501 | 776 | 1,304 | 461 | 88 |
| Cumulative \# | 0 | 0 | 0 | 124 | 761 | 1,262 | 2,038 | 3,342 | 3,803 | 3,891 |

## D2: Industrial Addresses Only, Four Sections / Quadrants




| Distance (m) | $\mathbf{1 0 0}$ | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \# N-E | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \# S-E | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \# S-W | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \# N-W | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Distance (km) | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \# N-E | $\mathbf{0}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \# S-E | 0 | 0 | 0 | 0 | 0 | 153 | 804 | 1,041 | 1,316 | 1,404 |
| \# S-W | 0 | 0 | 0 | 124 | 761 | 1,109 | 1,234 | 2,301 | 2,487 | 2,487 |
| \# N-W | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## D3: Industrial Addresses Only, Directional Impact Areas

10km


| Distance (m) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cumulative \# | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Distance (km) | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | 0 | 0 | 0 | 124 | 637 | 353 | 173 | 1,067 | 186 | 0 |
| Cumulative \# | 0 | 0 | 0 | 124 | 761 | 1,114 | 1,287 | 2,354 | 2,540 | 2,540 |

## E1: All Primary Production Addresses, All Directions

1 km



| Distance (m) | $\mathbf{1 0 0}$ | $\mathbf{2 0 0}$ | $\mathbf{3 0 0}$ | $\mathbf{4 0 0}$ | $\mathbf{5 0 0}$ | $\mathbf{6 0 0}$ | $\mathbf{7 0 0}$ | $\mathbf{8 0 0}$ | $\mathbf{9 0 0}$ | $\mathbf{1 0 0 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Cumulative \# | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |


| Distance (km) | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | 13 | 192 | 323 | 341 | 322 | 443 | 754 | 1,473 | 2,423 | 856 |
| Cumulative \# | 13 | 205 | 528 | 869 | 1,191 | 1,634 | 2,388 | 3,861 | 6,284 | 7,140 |

## E2: All Primary Production Addresses, Four Sections / Quadrants

1 km


10km


| Distance (m) | $\mathbf{1 0 0}$ | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \# N-E | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| \# S-E | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| \# S-W | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \# N-W | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Distance (km) | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \# N-E | 11 | 113 | 294 | 446 | 602 | 918 | 1,571 | 2,095 | 4,008 | 4,301 |
| \# S-E | 2 | 60 | 147 | 218 | 276 | 336 | 336 | 980 | 1,162 | 1,464 |
| \# S-W | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 214 | 489 | 636 |
| \# N-W | 0 | 32 | 87 | 205 | 313 | 380 | 481 | 572 | 625 | 739 |

## E3: All Primary Production Addresses, Directionall Impact Areas

10km


| Distance (m) | $\mathbf{1 0 0}$ | $\mathbf{2 0 0}$ | $\mathbf{3 0 0}$ | $\mathbf{4 0 0}$ | $\mathbf{5 0 0}$ | $\mathbf{6 0 0}$ | $\mathbf{7 0 0}$ | $\mathbf{8 0 0}$ | $\mathbf{9 0 0}$ | $\mathbf{1 0 0 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cumulative \# | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Distance (km) | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | $\mathbf{0}$ | 0 | 0 | 0 | 0 | 0 | 0 | 798 | 364 | 298 |
| Cumulative \# | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 798 | 1,162 | 1,460 |

## F1: All Non-Residential Addresses, All Directions



| Distance (m) | $\mathbf{1 0 0}$ | $\mathbf{2 0 0}$ | $\mathbf{3 0 0}$ | $\mathbf{4 0 0}$ | $\mathbf{5 0 0}$ | $\mathbf{6 0 0}$ | $\mathbf{7 0 0}$ | 800 | 900 | $\mathbf{1 0 0 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | 0 | 19 | 3 | 1 | 8 | 12 | 18 | 30 | 14 | 16 |
| Cumulative \# | 0 | 19 | 22 | 23 | 31 | 43 | 61 | 91 | 105 | 121 |


| Distance (km) | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | 121 | 306 | 596 | 802 | 1,884 | 3,875 | 2,698 | 3,505 | 4,280 | 1,646 |
| Cumulative \# | 121 | 427 | 1,023 | 1,825 | 3,709 | 7,584 | 10,282 | 13,787 | 18,067 | 19,713 |

## F2: All Non-Residential Addresses, Four Sections / Quadrants

1 km


10km


| Distance (m) | $\mathbf{1 0 0}$ | $\mathbf{2 0 0}$ | $\mathbf{3 0 0}$ | $\mathbf{4 0 0}$ | $\mathbf{5 0 0}$ | $\mathbf{6 0 0}$ | $\mathbf{7 0 0}$ | $\mathbf{8 0 0}$ | 900 | $\mathbf{1 0 0 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \# N-E | 0 | 0 | 2 | 2 | 5 | 8 | 9 | 12 | 16 | 27 |
| \# S-E | 0 | 19 | 19 | 19 | 19 | 21 | 34 | 35 | 39 | 44 |
| \# S-W | 0 | 0 | 1 | 2 | 7 | 14 | 18 | 44 | 49 | 49 |
| \# N-W | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |


| Distance (km) | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \# N-E | 27 | 160 | 390 | 608 | 917 | 1,477 | 2,160 | 2,785 | 4,890 | 5,443 |
| \# S-E | 44 | 105 | 192 | 400 | 1,036 | 1,390 | 2,615 | 3,793 | 5,108 | 5,701 |
| \# S-W | 49 | 83 | 188 | 346 | 1,025 | 3,847 | 4,508 | 6,045 | 6,726 | 7,043 |
| \# N-W | 1 | 79 | 253 | 471 | 731 | 870 | 999 | 1,164 | 1,343 | 1,526 |

## F3: All Non-Residential Addresses, Directional Impact Areas



| Distance (m) | $\mathbf{1 0 0}$ | $\mathbf{2 0 0}$ | $\mathbf{3 0 0}$ | $\mathbf{4 0 0}$ | $\mathbf{5 0 0}$ | $\mathbf{6 0 0}$ | $\mathbf{7 0 0}$ | $\mathbf{8 0 0}$ | $\mathbf{9 0 0}$ | $\mathbf{1 0 0 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | 0 | 0 | 1 | 1 | 5 | 7 | 7 | 26 | 5 | 0 |
| Cumulative \# | 0 | 0 | 1 | 2 | 7 | 14 | 21 | 47 | 52 | 52 |


| Distance (km) | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute \# | 52 | 39 | 109 | 169 | 687 | 2,851 | 740 | 2,264 | 774 | 470 |
| Cumulative \# | 52 | 91 | 200 | 369 | 1,056 | 3,907 | 4,647 | 6,911 | 7,685 | 8,155 |

## (1) Property Location ${ }^{\text {® }}$.ll

## 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 2749: Selected Medians and Averages

Median age of persons: 32 years (national median: 42)
Median total personal income (\$/weekly): 779 (national rank: top 18.7 percentile)
Median total family income (\$/weekly): 2,004 (national rank: top 20.2 percentile)
Median total household income (\$/weekly): 1,875 (national rank: top 13.1 percentile)
Median mortgage repayment (\$/monthly): 2,000 (national rank: top 17.8 percentile)
Median rent (\$/weekly): 380 (national rank: top 16.3 percentile)
Average number of persons per bedroom: 0.9 (national average: 0.8)
Average household size (number of persons): 3 (national average: 2.5)


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Report Version: V4.30

## Demographics - Age Groups 2016 vs 2011

Population: Age Groups
(Postcode: 2749; Count of persons: 16,930)


Data source: ABS 2016 Census

Population: Age Groups
(Postcode: 2749; Count of persons: 15,773)


Data source: ABS 2011 Census

## Demographics - Country of Birth 2016 vs 2011

Population: Country of Birth (Postcode: 2749; Count of persons: 16,926)


$\square$ Australia (80.78\%)
$\square$ U.K., Channel Is. \& Isle of Man (4.88\%) $\square$ New Zealand (1.48\%)
$\square$ Malta (0.80\%)
$\square$ Philippines (0.58\%)
$\square$ Others (11.48\%)

Housing: Dwelling Structure
(Postcode: 2749; Count of occupied private dwellings: 5,257)


Housing: Dwelling Structure
(Postcode: 2749; Count of occupied private dwellings: 4,961)

$\square$ Separate house (93.23\%)
$\square$ Semi-detached, row or terrace house, townhouse etc. (6.57\%)
$\square$ Flat, unit or apartment (0.14\%)
$\square$ Other dwelling (0.06\%)
Not stated (0.00\%)

Housing: Tenure Type and Landlord Type
(Postcode: 2749; Count of occupied private dwellings: 5,257)


Housing: Tenure Type and Landlord Type (Postcode: 2749; Count of occupied private dwellings: 4,961)


Total Family Income (weekly)
(Postcode: 2749; Count of families in family households: 4,619)


Total Family Income (weekly) (Postcode: 2749; Count of families in family households: 4,350)


## Income - Total Personal Income 2016 vs 2011

## Total Personal Income (weekly) (Postcode: 2749; Count of persons aged 15 years and over: 13,055)



Total Personal Income (weekly)
(Postcode: 2749; Count of persons aged 15 years and over: 11,913)


Data source: ABS 2011 Census

## Employment - Industry of Employment 2016 vs 2011

## Industry of Employment <br> (Postcode: 2749; Count of employed persons aged 15 years \& over: 8,599)



Data source: ABS 2016 Census

## Industry of Employment

(Postcode: 2749; Count of employed persons aged 15 years \& over: 7,950)


## Employment - Occupation 2016 vs 2011

## Occupation

(Postcode: 2749; Count of employed persons aged 15 years \& over: 8,599)


Occupation
(Postcode: 2749; Count of employed persons aged 15 years \& over: 7,950)


## Education - Level of Education 2016 vs 2011

## Level of Education (Postcode: 2749; Count of persons aged 15 years and over with a qualification: 7,178)



Data source: ABS 2016 Census

Level of Education (Postcode: 2749;
Count of persons aged 15 years and over with a qualification: 6,025)


## Time Series Profiles

## At LGA Level: Population \& Age Groups



Data source: ABS 2016 Census, DataPacks 07/2017

## At LGA Level: Occupied Private Dwellings

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



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: Castlereagh - Cranebrook, 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 $(\sim 2,600)$.

## At SA Level 2: Occupied Private Dwellings

## SA2: Castlereagh - Cranebrook, 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 1145820; Usual Resident Population: 491


SA2: Castlereagh - Cranebrook; Usual Resident Population: 23,720


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.

## SEIFA 2016 (Continued)

Suburb: Cranebrook; Usual Resident Population: 15,759


Postcode: 2749; Usual Resident Population: 16,930


LGA: Penrith (C); Usual Resident Population: 196,066


Data source: ABS 2016 Census, SEIFA 03/2018

## 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. SRTM Digital Elevation Model at $\sim 30 \mathrm{~m}$ resolution was analysed, and for urban and forest areas, the data may represent the height of buildings and tree canopies.
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. G-NAF - Incorporates or developed using G-NAF ©PSMA Australia Limited licensed by the Commonwealth of Australia under the Open Geo-coded National Address File (G-NAF) End User Licence Agreement link.
5. 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).
6. Map - Hybrid basemap (imagery and roadmap) is accessed from Google Maps with API Key. ©2018 Google.
7. Satellite Imagery - Sentinel-2 imagery from the European Union Copernicus Sentinel Data and Service Information. The report contains modified Copernicus Sentinel data [2018].
8. Satellite Imagery - Landsat-8 imagery from the NASA and USGS Landsat Program.

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