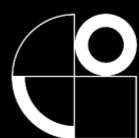
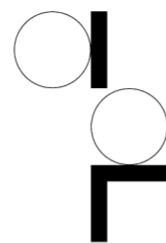
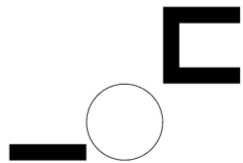
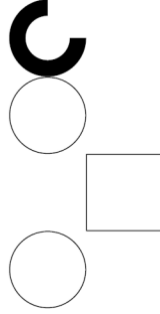


# G-NAF

**Data Release Report**  
August 2022



Geoscape



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# Introduction

G-NAF (Geocoded National Address File) is the trusted physical address index for Australia. It contains the state, suburb, street, number and coordinate reference or geocode for street addresses in Australia.

G-NAF uses existing and recognised address sources (referred to as contributors) including the state and territory government land records, as well as address data from the commonwealth government and other national sources. For more information, please refer to the G-NAF Product Description.

## Document Purpose

This document provides a description of the issues, changes, features, updates and overarching statistics relating to the applicable data release. This document should be read in conjunction with the relevant Product Description.

## Audience

This document is made available to Geoscape staff, data contributors, direct clients and end users. It is intended to be used by business managers, data managers and analysts as a guide and reference to understanding the content and variations within a data release.

## References

- G-NAF Product Description ([geoscape.com.au/documentation/](https://geoscape.com.au/documentation/))
- Geoscape Data ([geoscape.com.au/data/g-naf/](https://geoscape.com.au/data/g-naf/))

## Contact

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# Overview

- Nationally, the August 2022 update of G-NAF shows an increase of 53,224 addresses overall (+0.35%). The total number of addresses in G-NAF now stands at 15,357,486 of which 14,542,884 or 94.70% are principal.
- The confidence level distribution nationally for the August 2022 release has the confidence 2 addresses increasing by 39,503 from the May 2022 release with the total percentage of confidence 2 addresses increasing to 68.03% of principal addresses. The number of confidence 1 addresses has increased by 9,634 and represent 14.47% of all principal addresses while confidence 0 addresses have increased 4,995 and represent 17.50% of addresses.
- With respect to address reliability, there was an increase of 54,548 address level, a decrease of 2,063 in street locality addresses and an increase of 1,647 in locality level addresses. The reliability of principal addresses in G-NAF is now made up of 97.42% address level, 2.54% street locality addresses and 0.04% locality addresses.

## Update summary

- G-NAF complex site updates.
- Address changes arising from changes to Geoscape Roads – Queensland
- For details on these updates, refer to the Updates section in this report.

## Issues summary

- Address duplication corrections.
- For more information refer to the Updates section on these issues.

## Future Considerations

- Details of these changes can be found under the 'Future Considerations' section of this report.

# Updates

## G-NAF Complex Site Updates

There are no additional sites to those listed in the November 2021 and February 2022 Release Reports that are using the building name as part of the merge criteria.

## G-NAF Road Data Changes – Queensland

As identified in the May 2022 Release Report and Pre-Release Report, there have been changes to the Queensland Road data used as reference data for G-NAF addresses. The three main areas of change identified are:

- Roads that have had their name changed by inclusion of punctuation marks
- Roads that have had minor changes to their name
- Roads that have been omitted

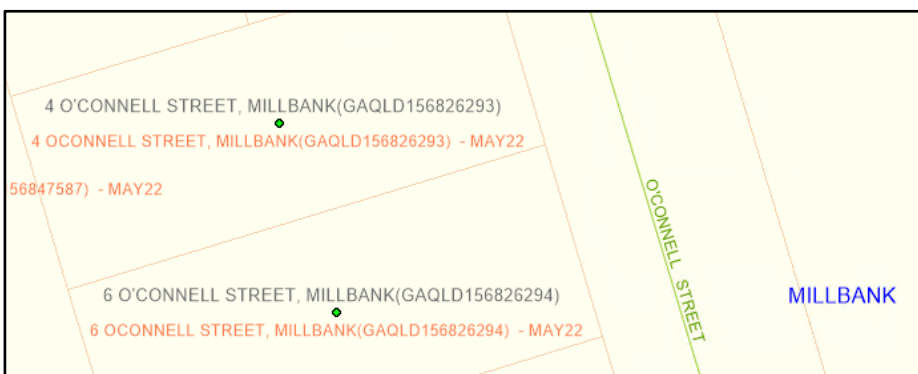
### Inclusion of Punctuation Marks in Street Names

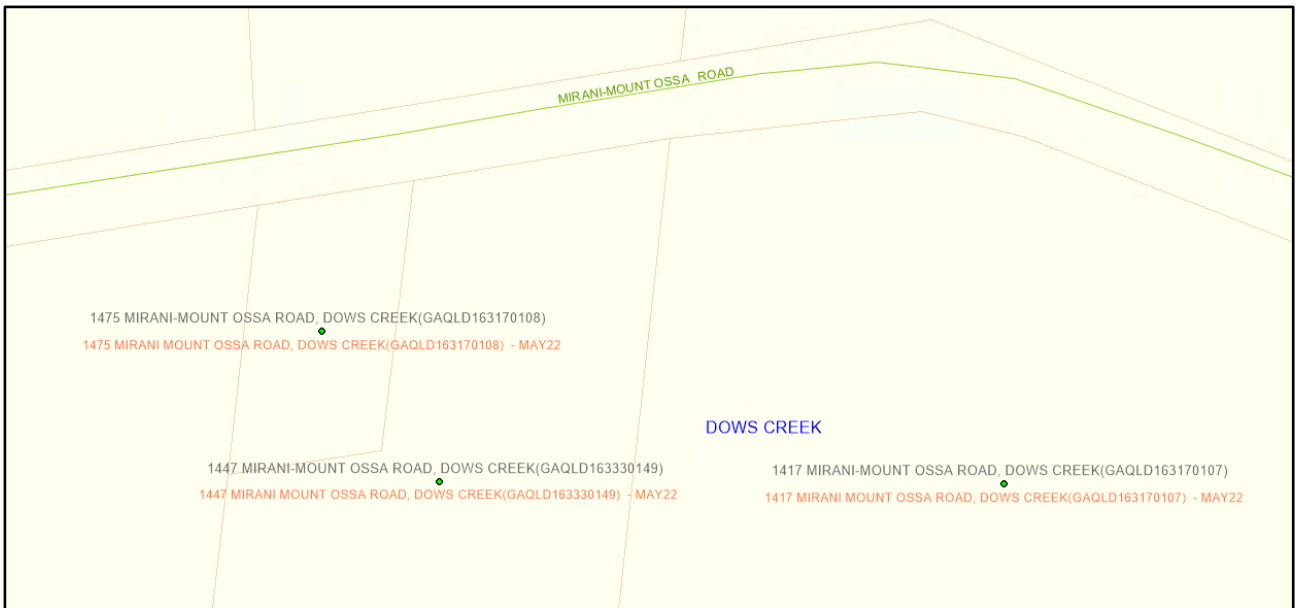
This change had the potential to trigger updates of the `address_detail_pid` for over 30,000 addresses. It was decided that given the scale and extent of the change, and that the road name is intrinsically the same, Geoscape would manage this change without updating the `address_detail_pid` by applying this as an update to the `street_locality` rather than as a replacement `street_locality`.

The basis of the update to the street locality is that the only change allowed to the street name is the inclusion of punctuation marks, i.e. the following changes to street name are permissible.

Geoscape Roads – Current Depiction			Geoscape Roads – Updated Depiction		
Street Name	Street Type	Locality	Street Name	Street Type	Locality
O'CONNELL	STREET	WEST END	O'CONNELL	STREET	WEST END
MALENY MONTVILLE	ROAD	BALMORAL RIDGE	MALENY - MONTVILLE	ROAD	BALMORAL RIDGE

There are 1,168 street names that have been updated that retain an unchanged `street_locality_pid` and these in turn relate to 31,899 addresses that similarly retain an unchanged `address_detail_pid`, examples below.

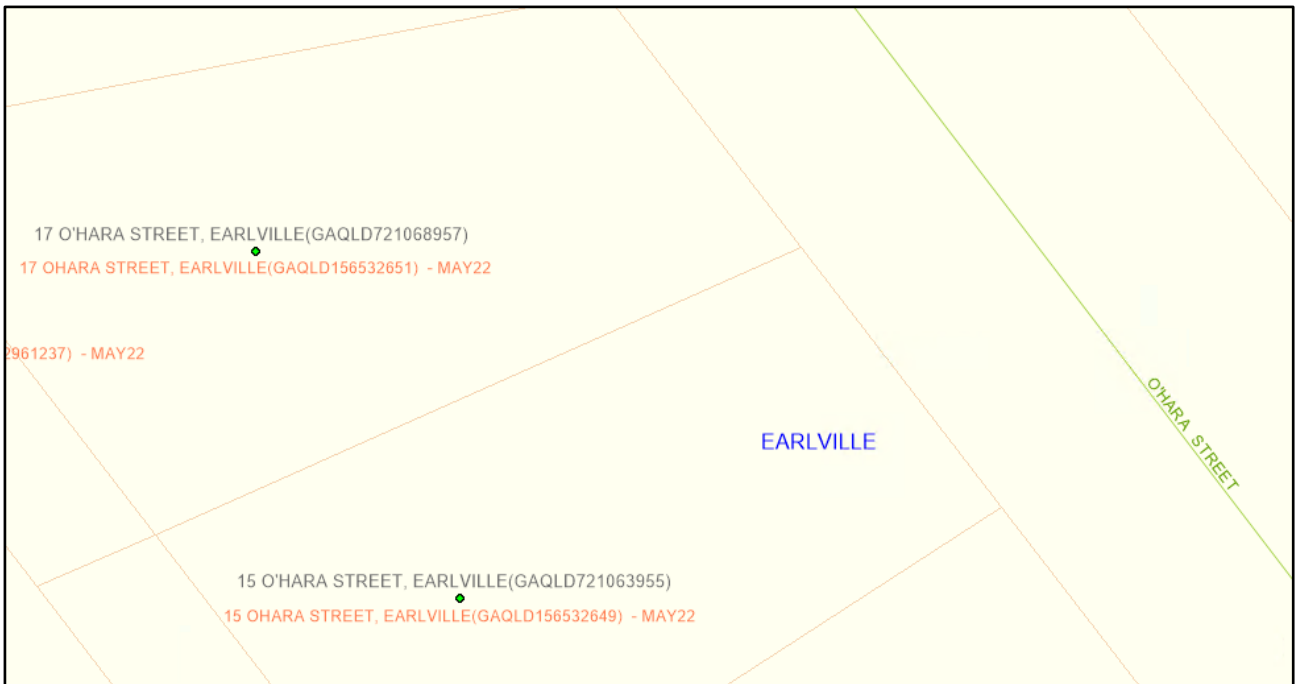




While the bulk of addresses affected by these street names are unchanged, there were 1,409 addresses identified that could not readily be accommodated with the strategy of updating the street name, and they have had their `address_detail_pid` updated as shown in the example below. There is an accompanying file detailing the change of `address_detail_pid` and `street_locality_pid` for these addresses.

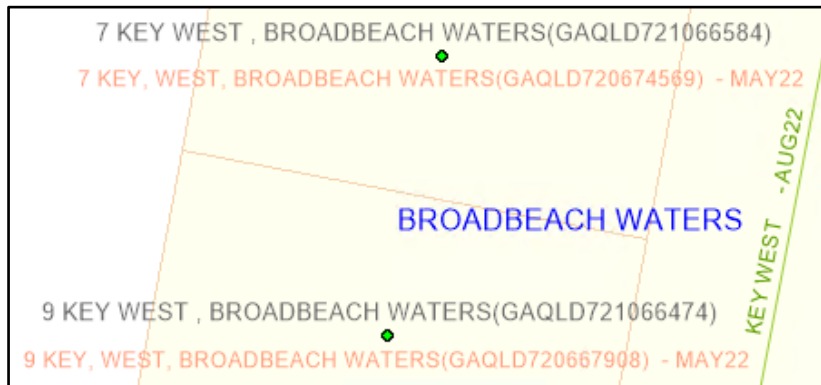
The accompanying file is located within the Extras directory in the G-NAF package:

GNAF\_QLD\_ROADS\_ADDRESS\_DETAIL\_PID\_LINKAGE.psv



### Changes to the Road Names

The updated QLD Roads also includes some minor street name changes that fall outside the scope of a punctuation mark update, and these changes have been processed in the manner of a regular road update, i.e., new street\_locality\_pid and address\_detail\_pid as required to describe the updated address.



NUMBER_FIRST:	9
NUMBER_FIRST_SUFFIX:	
NUMBER_LAST_PREFIX:	
NUMBER_LAST:	-9,999
NUMBER_LAST_SUFFIX:	
STREET_NAME:	KEY
STREET_TYPE_CODE:	WEST
STREET_SUFFIX_CODE:	
LOCALITY_NAME:	BROADBEACH WATERS
PRIMARY_POSTCODE:	
POSTCODE:	4218
LOCALITY_CLASS_CODE:	G

**May 2022 Release**

NUMBER_FIRST:	9
NUMBER_FIRST_SUFFIX:	
NUMBER_LAST_PREFIX:	
NUMBER_LAST:	-9,999
NUMBER_LAST_SUFFIX:	
STREET_NAME:	KEY WEST
STREET_TYPE_CODE:	
STREET_SUFFIX_CODE:	
LOCALITY_NAME:	BROADBEACH WATERS
PRIMARY_POSTCODE:	
POSTCODE:	4218
LOCALITY_CLASS_CODE:	G

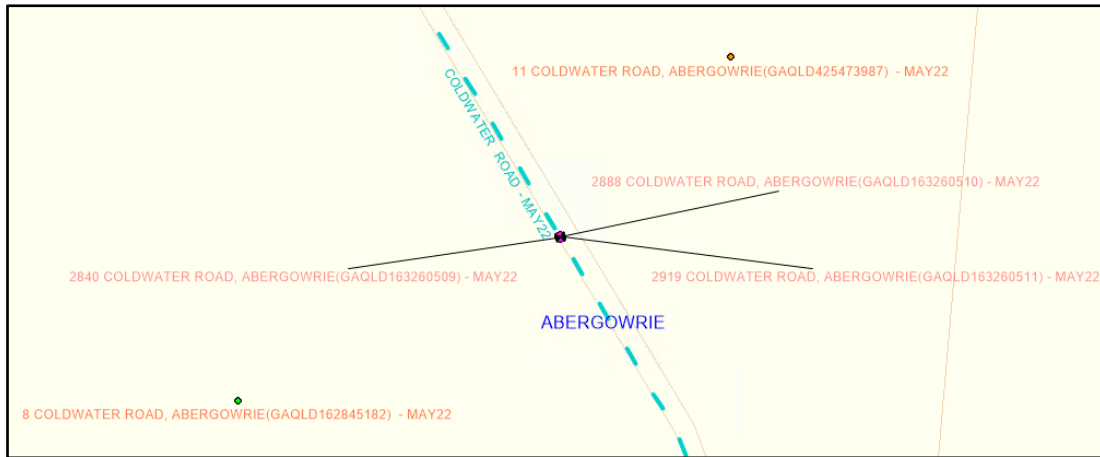
**August 2022 Release**



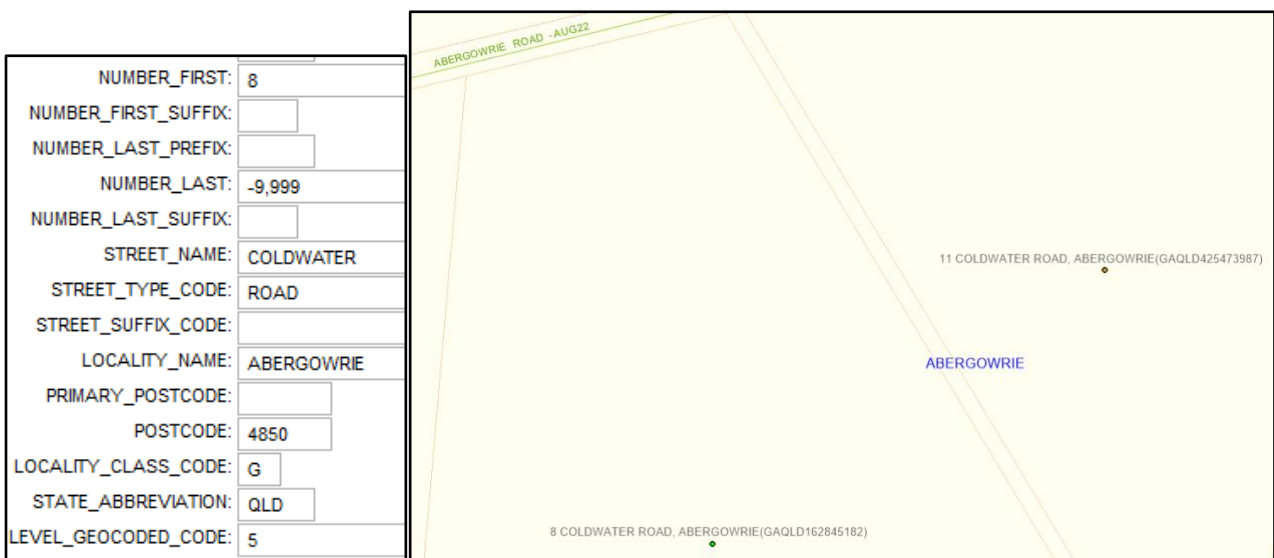
## Omitted Roads

Differences in road classification of the roads supply has meant that some roads that were previously present in the QLD Roads reference data are no longer included. This change means that any street locality addresses that were associated with the omitted road will now revert to locality addresses. Similarly, any address geocodes will have their level\_geocoded\_code change to reflect the omitted road, level\_geocoded\_code changes from 7 to 5.

This is reflected in the locality address counts for Queensland that have increased from 1,635 in May 2022 to 2,878 in August 2022.



**May 2022 Release showing street\_locality addresses**



**August 2022 Release, road omitted street\_locality addresses reverted to locality addresses and level\_geocoded\_code set to 5**

## Other ongoing changes

- Identifying and creating principal–alias address relationships including address de-duplication.
- Ongoing validation and removal of sensitive information in the `building_name`, `address_site_name` and `geocode_site_name` attributes.
- Targeted address improvements and corrections as required.

# Issues

## **Address Duplication Corrections**

There were several duplicate addresses resolved during the August 2022 processing:

- South Australia - 5 addresses arising from the PAPS geocode address updates

# Future Considerations

## **Further improvements**

Geoscape will continue to implement further improvements to G-NAF based on additional address contributions from reliable sources. The improvements will be documented at the time of the release where changes are made based on the additional address contributions.

## **Data formats**

Please contact Geoscape Support ([support@geoscape.com.au](mailto:support@geoscape.com.au)) if you have questions or suggestions on data formats. Currently G-NAF is only available in PSV format.

# Summary Statistics

Note: The statistics below do not include "retired" addresses (i.e. Confidence = -1)

## Geocode Reliability of Principal Addresses Only

Reliability	No of Addresses	Percentage	Change since May 2022
1 (GPS derived address level)	0	0.00%	0
2 (Within address site boundary)	14016047	96.38%	53680
3 (gap geocoded)	150966	1.04%	868
4 (street level)	369995	2.54%	-2063
5 (locality level)	5876	0.04%	1647
6 (topo level)	0	0.00%	0
No geocode	0	0.00%	0
<b>Total</b>	<b>14,542,884</b>	<b>100.00%</b>	<b>54132</b>

## Address Confidence Levels of Principal Addresses Only

Confidence level	No of Addresses	Percentage	Change since May 2022
Addresses with a Confidence of 0	2544760	17.50%	4995
Addresses with a Confidence of 1	2104697	14.47%	9634
Addresses with a Confidence of 2	9893427	68.03%	39503
<b>Total</b>	<b>14,542,884</b>	<b>100.00%</b>	<b>54132</b>

## Geocode Reliability of Addresses (Principals and Aliases)

Reliability	No of Addresses	Percentage	Change since May 2022
1 (GPS derived address level)	0	0.00%	0
2 (Within address site boundary)	14828254	96.55%	52810
3 (gap geocoded)	152076	0.99%	853
4 (street level)	371250	2.42%	-2086
5 (locality level)	5906	0.04%	1647
6 (topo level)	0	0.00%	0
No geocode	0	0.00%	0
<b>Total</b>	<b>15,357,486</b>	<b>100.00%</b>	<b>53224</b>

## Address Confidence Levels of Addresses (Principals and Aliases)

Confidence level	No of Addresses	Percentage	Change since May 2022
Addresses with a Confidence of 0	3116712	20.29%	3515
Addresses with a Confidence of 1	2338890	15.23%	10108
Addresses with a Confidence of 2	9901884	64.48%	39601
<b>Total</b>	<b>15,357,486</b>	<b>100.00%</b>	<b>53224</b>

## New Address ID Summary (Principals and Aliases)

	All new Address IDs	New Principal Address IDs	Updated Addresses IDs	Net new Address IDs
TAS	1,101	1,094	48	1,053
VIC	26,252	25,590	633	25,619
SA	5,639	5,579	1,031	4,608
WA	4,855	4,816	96	4,759
NT	67	64	0	67
QLD	15,200	15,064	1,741	13,459
NSW	16,727	16,546	430	16,297
ACT	749	745	15	734
OT	0	0	0	0
<b>TOTAL</b>	<b>70,590</b>	<b>69,498</b>	<b>3,994</b>	<b>66,596</b>

# Annex A – Detailed Statistics by Jurisdiction

The following tables show the changes that occur to principal only addresses between the new release (August 2022) and the previous release (May 2022) for each jurisdiction. The table shows information on the change in the two far-right columns, one shows the count difference between two releases (No of Addresses) and the other the percentage of change based on the total of all principal addresses (Address %). The statistics below do not include "retired" addresses (i.e. Confidence = -1).

## Victoria

Address Summary - Vic	Aug 2022		May 2022		Change	
	No of Addresses		No of Addresses		No of Addresses	Address %
All Addresses (Principal and Alias)	3,979,137		3,956,870		22,267	0.56%
Principal Addresses	3,773,087		3,750,693		22,394	0.60%
% National Total (Principal Addresses)	25.94%		25.89%			0.06%

Confidence - Vic	Aug 2022		May 2022		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 2	2,655,120	70.37%	2,643,315	70.48%	11,805	-0.11%
Addresses with a Confidence of 1	564,397	14.96%	558,548	14.89%	5,849	0.07%
Addresses with a Confidence of 0	553,570	14.67%	548,830	14.63%	4,740	0.04%

Level Geocoded - Vic	Aug 2022		May 2022		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	3,728,967	98.83%	3,706,741	98.83%	22,226	0.00%
Addresses geocoded to Street level	43,235	1.15%	43,445	1.16%	-210	-0.01%
Addresses geocoded to Locality level	885	0.02%	507	0.01%	378	0.01%

## New South Wales

Address Summary - NSW	Aug 2022		May 2022		Change	
	No of Addresses		No of Addresses		No of Addresses	Address %
All Addresses (Principal and Alias)	4,772,933		4,760,384		12,549	0.26%
Principal Addresses	4,495,513		4,482,083		13,430	0.30%
% National Total (Principal Addresses)	30.91%		30.93%			-0.02%

Confidence - NSW	Aug 2022		May 2022		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 2	3,001,363	66.76%	2,991,233	66.74%	10,130	0.03%
Addresses with a Confidence of 1	694,981	15.46%	693,187	15.47%	1,794	-0.01%
Addresses with a Confidence of 0	799,169	17.78%	797,663	17.80%	1,506	-0.02%

Level Geocoded - NSW	Aug 2022		May 2022		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	4,346,181	96.68%	4,332,384	96.66%	13,797	0.02%
Addresses geocoded to Street level	148,072	3.29%	148,533	3.31%	-461	-0.02%
Addresses geocoded to Locality level	1260	0.03%	1,166	0.03%	94	0.00%

## South Australia

Address Summary - SA	Aug 2022		May 2022		Change	
	No of Addresses		No of Addresses		No of Addresses	Address %
All Addresses (Principal and Alias)	1,134,282		1,131,705		2,577	0.23%
Principal Addresses	1,097,161		1,094,755		2,406	0.22%
% National Total (Principal Addresses)	7.54%		7.56%			-0.01%

Confidence - SA	Aug 2022		May 2022		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 2	726,997	66.26%	725,059	66.23%	1,938	0.03%
Addresses with a Confidence of 1	139,223	12.69%	138,704	12.67%	519	0.02%
Addresses with a Confidence of 0	230,941	21.05%	230,992	21.10%	-51	-0.05%

Level Geocoded - SA	Aug 2022		May 2022		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	1,069,058	97.44%	1,066,278	97.40%	2,780	0.04%
Addresses geocoded to Street level	27,857	2.54%	28,233	2.58%	-376	-0.04%
Addresses geocoded to Locality level	246	0.02%	244	0.02%	2	0.00%



## Tasmania

Address Summary - Tas	Aug 2022		May 2022		Change	
	No of Addresses		No of Addresses		No of Addresses	Address %
All Addresses (Principal and Alias)	349,978		349,137		841	0.24%
Principal Addresses	341,998		341,090		908	0.27%
% National Total (Principal Addresses)	2.35%		2.35%			0.00%

Confidence - Tas	Aug 2022		May 2022		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 2	249,267	72.89%	248,326	72.80%	941	0.08%
Addresses with a Confidence of 1	42,367	12.39%	42,268	12.39%	99	0.00%
Addresses with a Confidence of 0	50,364	14.73%	50,496	14.80%	-132	-0.08%

Level Geocoded - Tas	Aug 2022		May 2022		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	327,154	95.66%	326,183	95.63%	971	0.03%
Addresses geocoded to Street level	14,738	4.31%	14,773	4.33%	-35	-0.02%
Addresses geocoded to Locality level	106	0.03%	134	0.04%	-28	-0.01%

## Western Australia

Address Summary - WA	Aug 2022		May 2022		Change	
	No of Addresses		No of Addresses		No of Addresses	Address %
All Addresses (Principal and Alias)	1,538,199		1,534,495		3,704	0.24%
Principal Addresses	1,477,785		1,474,058		3,727	0.25%
% National Total (Principal Addresses)	10.16%		10.17%			-0.01%

Confidence - WA	Aug 2022		May 2022		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 2	1,077,877	72.94%	1,074,546	72.90%	3,331	0.04%
Addresses with a Confidence of 1	170,517	11.54%	170,049	11.54%	468	0.00%
Addresses with a Confidence of 0	229,391	15.52%	229,463	15.57%	-72	-0.04%

Level Geocoded - WA	Aug 2022		May 2022		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	1,444,426	97.74%	1,440,729	97.74%	3,697	0.00%
Addresses geocoded to Street level	33,285	2.25%	33,210	2.25%	75	0.00%
Addresses geocoded to Locality level	74	0.01%	119	0.01%	-45	0.00%

## Australian Capital Territory

Address Summary - ACT	Aug 2022		May 2022		Change	
	No of Addresses		No of Addresses		No of Addresses	Address %
All Addresses (Principal and Alias)	239,043		238,517		526	0.22%
Principal Addresses	234,062		233,566		496	0.21%
% National Total (Principal Addresses)	1.61%		1.61%			0.00%

Confidence - ACT	Aug 2022		May 2022		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 2	188,471	80.52%	188,010	80.50%	461	0.03%
Addresses with a Confidence of 1	16,599	7.09%	16,519	7.07%	80	0.02%
Addresses with a Confidence of 0	28,992	12.39%	29,037	12.43%	-45	-0.05%

Level Geocoded - ACT	Aug 2022		May 2022		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	232,369	99.28%	231,873	99.28%	496	0.00%
Addresses geocoded to Street level	1,693	0.72%	1,693	0.72%	0	0.00%
Addresses geocoded to Locality level	0	0.00%	0	0.00%	0	0.00%

## Queensland

Address Summary - QLD	Aug 2022		May 2022		Change	
	No of Addresses		No of Addresses		No of Addresses	Address %
All Addresses (Principal and Alias)	3,228,803		3,217,986		10,817	0.34%
Principal Addresses	3,011,441		3,000,728		10,713	0.36%
% National Total (Principal Addresses)	20.71%		20.71%			0.00%

Confidence - QLD	Aug 2022		May 2022		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 2	1,930,820	64.12%	1,920,239	63.99%	10,581	0.12%
Addresses with a Confidence of 1	450,419	14.96%	449,403	14.98%	1,016	-0.02%
Addresses with a Confidence of 0	630,202	20.93%	631,086	21.03%	-884	-0.10%

Level Geocoded - QLD	Aug 2022		May 2022		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	2,913,324	96.74%	2,902,767	96.74%	10,557	0.01%
Addresses geocoded to Street level	95,239	3.16%	96,326	3.21%	-1,087	-0.05%
Addresses geocoded to Locality level	2878	0.10%	1,635	0.05%	1,243	0.04%

## Northern Territory

Address Summary - NT	Aug 2022		May 2022		Change	
	No of Addresses		No of Addresses		No of Addresses	Address %
All Addresses (Principal and Alias)	111,286		111,343		-57	-0.05%
Principal Addresses	108,058		108,000		58	0.05%
% National Total (Principal Addresses)	0.74%		0.75%			0.00%

Confidence - NT	Aug 2022		May 2022		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 2	62,056	57.43%	61,740	57.17%	316	0.26%
Addresses with a Confidence of 1	25,481	23.58%	25,672	23.77%	-191	-0.19%
Addresses with a Confidence of 0	20,521	18.99%	20,588	19.06%	-67	-0.07%

Level Geocoded - NT	Aug 2022		May 2022		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	102,162	94.54%	102,138	94.57%	24	-0.03%
Addresses geocoded to Street level	5,545	5.13%	5,514	5.11%	31	0.03%
Addresses geocoded to Locality level	351	0.32%	348	0.32%	3	0.00%

## Other Territories

Address Summary - OT	Aug 2022		May 2022		Change	
	No of Addresses		No of Addresses		No of Addresses	Address %
All Addresses (Principal and Alias)	3,825		3,825		0	0.00%
Principal Addresses	3,779		3,779		0	0.00%
% National Total (Principal Addresses)	0.03%		0.03%			0.00%

Confidence - OT	Aug 2022		May 2022		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 2	1,456	38.53%	1,456	38.53%	0	0.00%
Addresses with a Confidence of 1	713	18.87%	713	18.87%	0	0.00%
Addresses with a Confidence of 0	1,610	42.60%	1,610	42.60%	0	0.00%

Level Geocoded - OT	Aug 2022		May 2022		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	3372	89.23%	3372	89.23%	0	0.00%
Addresses geocoded to Street level	331	8.76%	331	8.76%	0	0.00%
Addresses geocoded to Locality level	76	2.01%	76	2.01%	0	0.00%