

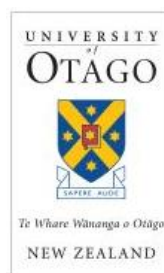


# Severe housing deprivation in Aotearoa New Zealand, 2018

June 2021 update

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**HE K A I N G A O R A N G A**

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## Disclaimers

The results in this report are not official statistics. They have been created for research purposes from a number of sources: the Integrated Data Infrastructure (IDI) and a pre-release 2018 Census CURF managed by Stats NZ; a transitional housing dataset managed by Te Tūāpapa Kura Kāinga – Ministry of Housing and Urban Development (HUD); and operational data sourced directly from providers of emergency and transitional housing. The opinions, findings, recommendations, and conclusions expressed in this report are those of the authors, not Stats NZ nor HUD.

Access to the Stats NZ-managed anonymised data used in this study was provided by Stats NZ under the security and confidentiality provisions of the Statistics Act 1975. Only people authorised by the Statistics Act 1975 are allowed to see data about a particular person, household, business, or organisation, and the results in this report have been confidentialised to protect these groups from identification and to keep their data safe. Careful consideration has been given to the privacy, security, and confidentiality issues associated with using administrative and survey data in the IDI. Further detail can be found in the Privacy impact assessment for the Integrated Data Infrastructure available from [www.stats.govt.nz](http://www.stats.govt.nz).

## Ethical approval

Ethical approval for this study was granted by the University of Otago Human Research Ethics Committee.

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## Contents

Key findings	4
Introduction	6
Methodology	8
Results	15
References	25
Appendix 1. Revisions to the 2013 severe housing deprivation estimate	26
Appendix 2. Definition and methodology for measuring severe housing deprivation: A brief history	28
Appendix 3. June 2021 updates to figures	32

## Key findings

- On Census night 2018, 102,123 people were identified as severely housing deprived, which is nearly 2.2 percent of the population. This figure includes people living in 'Uninhabitable housing', which was measured for the first time in the 2018 Census.
- Excluding the 'Uninhabitable housing' category, 41,724 people (or nearly 0.9 percent of the population) were identified as severely housing deprived on Census night 2018. Excluding the 'Uninhabitable housing' category allows better comparison with previous years.
- Both measures of severe housing deprivation should be regarded as lower bounds due to a range of challenges measuring this population.
- Note that these figures reflect the situation in 2018, and do not reflect the impact of more recent policies or COVID-19.

The following findings reflect the severely housing deprived population *excluding the Uninhabitable housing category*. This is the population analysed in the body of the report. *Uninhabitable housing* is included in Appendix 3.

- Compared with 2013, the rate of severe housing deprivation in 2018 had increased by 0.9 per 10,000 people, an increase of about 4,400 people. This increase was largely due to more people sharing accommodation in severely crowded houses. There was a reduction of about 1,700 severely housing deprived people living in commercial accommodation (e.g. boarding houses and motels). These comparisons are indicative only, given a range of methodological limitations and differences in practice between censuses that limit meaningful comparison over time.
- As in previous years, the severely housing deprived population was disproportionately young, with nearly 50 percent aged under 25 years of age. Rates of severe housing deprivation are highest among Pacific and Māori young people.
- Similar numbers of males and females were severely housing deprived overall. Males were more likely to live without shelter and in dwellings such as boarding houses, while females were more likely to be sharing in severely crowded dwellings.
- The highest rates of severe housing deprivation were found in Northland, Gisborne, and Auckland; the lowest in Canterbury, Taranaki, and Southland.
- Problems with the 2018 Census will have had a significant effect on the quality of information about severe housing deprivation, including a likely undercount of Māori and Pacific people experiencing severe housing deprivation. This underlines the importance of developing other sources of data to monitor severe housing deprivation – providing more regular data and allowing comparison with the findings from Census. It also signals the need for more consistent application of enumeration practices across New Zealand in the 2023 Census.

- Severe housing deprivation disproportionately affected ethnic minorities. Māori and Pacific people's severe housing deprivation prevalence rates were four and six times the European rate, respectively, and the true levels of inequity are probably greater.
- The 2018 severe housing deprivation estimate benefited from a number of methodological improvements, compared with previous years. These should be carried forward. Combined with improved data collection in the 2023 Census, these improvements will provide a strong base for monitoring severe housing deprivation in the future:
  - Targeted strategy to engage homeless populations in the Census;
  - Using administrative data for missing income;
  - Operational data from NGO emergency housing providers collated by government.

## Introduction

This report presents estimates of the size and selected characteristics of the severely housing deprived (or 'homeless') population on Census night 2018 (March 6, 2018), based on analysis of Census and operational data from emergency and transitional housing providers. It builds on estimates previously produced for 2001, 2006 and 2013 using the same definition of severe housing deprivation (Amore, 2016; Amore et al., 2013).

Severe housing deprivation is synonymous with homelessness. It refers to people living in severely inadequate housing due to a lack of access to minimally adequate housing (Amore et al, 2013). This means not being able to access a private dwelling to rent or own that has all basic amenities. Housing that lacks at least two of the three core dimensions of housing adequacy – habitability, security of tenure, and privacy and control – is deemed severely inadequate.

We use the New Zealand Definition of Homelessness (a classification developed by government), to organise the severely housing deprived population into three groups: Without Shelter; Temporary Accommodation; and Sharing Accommodation. (Stats NZ, 2009). There is a fourth category – Uninhabitable Housing – which was measured for the first time in the 2018 Census. This new category is the subject of a separate publication (Viggers et al., 2021). The body of this report focuses on the categories of homelessness that have been measured in previous years, however similar tables with data and totals including uninhabitable housing are in Appendix 3.

While our concept of severe housing deprivation has been consistent over time, we have improved the method of analysing census data for severe housing deprivation. We applied this improved method to the 2018 Census, and also reanalysed the 2013 Census using the same improved method, which saw the 2013 severe housing deprivation estimate revised downwards. However, comparing estimates of severe housing deprivation over time is not advised (see the Caveats section for more detail). It should also be noted that the results presented in this report cannot be meaningfully compared internationally, due to wide variation in definitions and methodologies used to measure homelessness in each country.

There were important improvements in the operational data about people in emergency and transitional housing. Unfortunately, this advance in coverage will have been offset by problems with the 2018 Census that meant people experiencing severe housing deprivation were significantly undercounted (see discussion in the Caveats section). It is difficult to judge the net effect of measurement improvements and shortfalls on the 2018 estimate of severe housing deprivation.

Despite its limitations, the Census of Population and Dwellings remains a vital source of data on severe housing deprivation, as it is the only national measure of people in all living situations. While the results published in this report will underestimate total severe housing deprivation, the analysis of those it does measure is invaluable in indicating where in the population severe housing deprivation is concentrated.

A number of policies intended to address homelessness were in place at the time of the 2018 Census, which may be reflected in our findings. These included support for transitional housing, Housing First pilots in Hamilton and Auckland, and Emergency Housing Special Needs Grants, which supported people in crisis to stay in motels. More programmes have been implemented or expanded since, including expansion of Housing First and transitional housing, as well as further investment in social and affordable housing. Special efforts were made to house people without shelter during the COVID-19 pandemic. The impact of these latter policies, including those enacted in response to COVID-19, will not be reflected in the 2018 severe housing deprivation estimate presented in this report.

#### **Note regarding June 2021 Update**

This June 2021 report updates the severe housing deprivation figures for Aotearoa New Zealand for 2018. These updated figures reflect a number of important refinements to the analysis, which make small differences to the previously published results (Amore, Viggers, Howden-Chapman, 2020). The 'Uninhabitable housing' category is also included, which is also the subject of a dedicated report (Viggers, Amore, Howden-Chapman, 2021).

## Methodology

This section summarises the methodology applied in this study. We have previously published detailed formulations of the concept, classification, and operational definition of severe housing deprivation (Amore, 2019; Amore et al., 2013). These are summarised in Appendix 2.

### Definition

We define a person as severely housing deprived (or 'homeless') if they are:

1. Living in severely inadequate housing (i.e. housing below a minimum adequacy standard), due to;
2. A lack of access to housing that meets the minimum adequacy standard (rather than living in such circumstances as a matter of choice).

### Classification and data sources

The overall approach to measuring severe housing deprivation in this study was the same as that applied previously (Amore, 2016; Amore et al., 2013). The Census is the only source of national data for most categories of severe housing deprivation, but operational data were used to count people in emergency and transitional housing because these dwelling types cannot be reliably identified in the Census (Table 1).

**Table 1 Data sources used to measure severe housing deprivation**

Broad living situation (NZ Definition of Homelessness category)		Specific living situation (Types of severely inadequate housing)	Data source
1	Without shelter	Roofless / rough sleeper	Census
		Improvised dwelling	
		Mobile dwelling	
2	Targeted to homeless people (Emergency and transitional housing)	Night shelter	Operational data from providers (via HUD <sup>1</sup> & direct)
		Women's refuge	
		Other accommodation for homeless people	
	Not targeted to homeless people	Institution not targeted to homeless people (e.g. 'overstaying' in hospital solely due to lack of housing)	No data available
		Camping ground / motor camp	Census
		Boarding houses, hotels, motels, vessels	
	Marae <sup>2</sup>		
3	Sharing accommodation	Temporary resident in a severely crowded private dwelling	Census

**Notes:**

<sup>1</sup> HUD = Te Tūāpapa Kura Kāinga - Ministry of Housing and Urban Development.

<sup>2</sup> Although some marae provide services for homeless people (e.g. Te Puia Memorial Marae), people stay at marae for many reasons. Marae are therefore classified as 'not targeted to homeless people'.



## Analysis

### Non-government organisations' (NGO) operational data

All residents of emergency and transitional housing who appeared in the operational data were included as severely housing deprived. No other filters were applied, because their very residence in a dwelling targeted to homeless people establishes their status as severely housing deprived at the time of the 2018 Census.

### Census

Figure 1 shows the algorithm applied to the 2018 Census to identify the severely housing deprived population. In the main, it is the same as that applied in previous years (Amore, 2016; Amore et al., 2013). Some methodological improvements have been made since, which are detailed in Appendix 1.

Key points about the algorithm:

1. The definition of severe housing deprivation was operationalised as follows:

A person was identified as severely housing deprived if they were:

- a. Living in severely inadequate housing, and;
- b. Had no other address, and;
- c. Had a low income (below a 60 percent of the median equivalised income threshold).

Criteria b. and c. are proxies for 'lacking access to minimally adequate housing' (i.e. lack of adequate housing options).

2. Extra filters were applied to people in permanent private dwellings:

- d. Severely crowded dwelling (deficit of two or more bedrooms using Canadian National Occupancy Standard) – an indicator of sharing by necessity, and;
- e. 'Hosts' were identified as being an owner of the dwelling, the reference person (i.e. the person who fills in the Census dwelling form), or in the family nucleus of an owner or reference person. These people were excluded. The other people in the dwelling were considered 'temporary residents' and classified as severely housing deprived if they met the other criteria listed above.

3. People in the 'Roofless or rough sleeper' category were automatically classified as severely housing deprived. Stats NZ made special efforts to ensure people in this category were correctly classified, thus we can be confident that they were severely housing deprived (personal communication, R Goodyear, May 2020). Most people in this category did not answer the income question, and thus would not be counted as severely housing deprived if the low-income criterion were applied.

**Figure 1 Algorithm for identifying the severely housing deprived population in the 2018 Census**



**Notes for Figure 1:**

- (1) People with no information for these variables were classified as 'Severe housing deprivation cannot be determined' (not shown).
- (2) Severely inadequate housing relates to the 'Specific living situations' in Table 1.
- (3) 'Prorata allocation of children' is a special filter applied to children in 'severely inadequate' non-private dwellings (NPDs), such as boarding houses. Children in NPDs are not linked to a family or household, so the low income filter could not be applied like it is to children in private dwellings (based on family or dwelling income). Hence, a proportion of the total children in each NPD were classified as 'Severely housing deprived', based on the proportion of adults in the same dwelling classified as such.
- (4) A severely crowded dwelling was defined as a dwelling with a deficit of two or more bedrooms, according to the Canadian National Occupancy Standard.
- (5) The reference person is the person in a dwelling who fills out the Census Dwelling Form. This person was assumed to be more likely to be a 'host' in the dwelling, rather than a temporary resident. This filter is required for rental dwellings in particular.

June 2021 refinements made to the Census analysis

This June 2021 report updates the previously published severe housing deprivation figures for Aotearoa New Zealand for 2018. These updated figures reflect two small but important changes made to the severe housing deprivation analysis.

1. The income poverty threshold was brought into line with that used in NZDep2018, which has always been our practice. The 'poverty line' in NZDep2018 was a household equivalised income of \$34,023 (Atkinson, Salmond, and Crampton, 2019). This change applies to all categories of severe housing deprivation, except 'Roofless/rough sleeper', where no income filter is applied.
2. People reporting their usual address as 'Elsewhere in New Zealand' were considered as part of their usual household. Unlike previous Censuses, the 2018 Census allows these people to be included in the analysis, because they were 'repatriated' to their usual address.

For a comparison of the previously published totals, and the updated totals, please see Appendix 3.

## Caveats

There are a number of caveats to interpreting and using the results presented in this report. The 2018 severe housing deprivation count, like previous estimates, will have underestimated the true level of severe housing deprivation in New Zealand. Scope changes, census operational difficulties, and quality limitations inherent in surveying people experiencing homelessness mean comparisons over time are not recommended.

Here, we detail a range of factors that likely influenced the 2018 estimate of severe housing deprivation:

- As a vulnerable and hard-to-find population, we expect the severely housing deprived population to be undercounted in national censuses (and most data collections). However, we also recognise that a national census of population and dwellings is one of the best sources of information on severe housing deprivation at a national level. In preparation for the 2018 Census, Stats NZ developed a targeted strategy designed to better reach homeless people (Stats NZ, 2019a). This included a number of approaches:
  - Pre-engagement with community organisations;
  - Data collection over several nights (4 to 8 March 2018);
  - Assisted completion events – e.g. barbeques held with community organisations with Census staff on hand to help people complete forms;
  - Field-assisted response on an *ad hoc* basis, to help people complete their forms where they live;
  - Specific engagement with non-private dwellings such as night shelters.
- Discussion with homelessness service providers revealed that the targeted strategy did not go according to plan in some areas, which has also been noted in an independent review of the 2018 Census (Jack & Grazeadei 2019).
- The move to an online-first approach for the 2018 Census contributed to an undercount of severely housing deprived people living in private dwellings, likely due to limited availability of online access and variable computer literacy. The online-first approach also meant there were fewer staff 'on the ground' than for previous censuses, so fewer people living in situations classified as severely inadequate housing, such as cars, would have been identified and encouraged to participate.
- Extensive work has been undertaken on the 2018 Census to fill data gaps using administrative and imputed data. The extent to which this has improved coverage is not yet known – the final 2018 Census coverage rate is yet to be published. As with previous Censuses, people living without shelter and in non-private dwellings will be excluded from the post-enumeration survey, and hence the degree of undercount for these groups is not reflected in Census coverage rates.

- There was substantial variation in response rates by ethnicity for the 2018 Census, with Māori and Pacific people particularly affected. Census forms were completed by 71 percent of Māori and 68 percent of Pacific people, compared with 89 percent of people of European ethnicities. Through the use of administrative enumeration, the coverage of Māori and Pacific peoples has improved to an estimated 96 percent (Stats NZ, 2019b). However, for variables where there were no alternative sources of data (e.g. basic amenities), the proportion of missing data will be greater for Māori and Pacific than for the total population. The main impact on the severe housing deprivation estimate is that around 330,000 people could be allocated to a small area (meshblock) but not to a household, and thus could not be included in the severe housing deprivation analysis because household and dwelling variables are integral to determining if a person is severely housing deprived. These 330,000 records 'missing' from the severe housing deprivation analysis are likely to particularly affect the 'sharing accommodation' category, and to some extent the 'uninhabitable housing' category and underestimate severe housing deprivation among Māori and Pacific people (Stats NZ, 2020). Māori and Pacific make up almost half of the 330,000 people missing from households and they are more likely to share with family or friends when they cannot access a place of their own.
- Due to the use of additional data sources and imputation in the 2018 Census, every usual resident has an ethnicity. By comparison, in the 2013 Census, 5.4 percent of usual residents' ethnicity was not stated. This improved ethnicity data coverage may act to falsely reduce the reported prevalence rates of severe housing deprivation because the proportion of people whose ethnicity is known increased (the denominator), but data were not available for all of those people to assess them for severe housing deprivation (the numerator). Māori and Pacific people are likely to be disproportionately affected by this numerator/denominator bias because more of their data came from sources other than the 2018 Census forms, and they make up a greater proportion of people missing from households.
- For the first time, Te Tūāpapa Kura Kāinga – the Ministry of Housing and Urban Development (HUD) were able to supply data from their funded emergency and transitional housing for Census night 2018. HUD believe these data represent reporting of about 75 percent of clients (personal communication, M Devlin, 29 April 2020). This compares with a response rate of approximately 50 percent in 2013, when we sought data from each individual provider or umbrella organisation regarding the number and characteristics of people they were supporting on Census night.
- Income data coverage was better in the 2018 Census because of the use of administrative data. In 2013, lack of income data was the most common reason people were excluded from the estimate of severe housing deprivation. This was likely a source of undercount of severe housing deprivation in 2013 because non-response to income questions was more common in deprived groups, including people not working (Suei, 2016).

**Table 2 Likely effects of selected features of the 2018 Census and NGO operational data on the severe housing deprivation estimate, by category**

Broad living situation (NZ Definition of Homelessness category)		Specific living situation	NGO data	2018 Census					
			Use of HUD data for transitional housing	Online-first	Targeted collection for homeless people	Addition of admin. data for ethnicity	Addition of admin. data for income	Addition of admin. data for dwelling type	330,000 people included in small areas, but not households
1	Without shelter (Census data)	Roofless / rough sleeper	No change	Possible decrease	Increase	Increased count, reduced proportion	Increase	No change	Unknown
		Improvised dwelling							
		Mobile dwelling							
2	Temporary accomm.	Emergency & transitional accomm. (Operational data)	No change	No change	No change	No change	No change	No change	No change
		Night shelter							
		Women's refuge							
		Other accommodation for homeless people	Likely increase						
		Commercial accomm. (Census data)	Camping ground / motor camp						
Boarding houses, hotels, motels, vessels	Unknown		Unknown	Increased count, reduced proportion	Increase	Likely increase (boarding houses)	Decrease		
Marae (Census data)		No change	Unknown	Unknown	Unknown	Unknown	Unknown	No change	Unknown
3	Sharing accommodation (Census data)		No change	Possible decrease	No change	Increased count, reduced proportion	Increase	No change	Likely decrease
<b>Overall effect on the total estimate of severe housing deprivation</b>			<b>Likely increase</b>	<b>Possible decrease</b>	<b>Increase</b>	<b>Increase</b>	<b>Increase</b>	<b>Increase</b>	<b>Decrease</b>

## Results

Please note that all results tables in this report largely represent counts from Census data, so tests of significance are not applicable.

Table 3 shows the population identified as severely housing deprived on Census night 2018: 41,724 people, which is nearly 0.9 percent of the population, in the three categories that have been previously reported. Including those in the fourth category, uninhabitable housing, there were 102,123 people identified as severely housing deprived on Census night, over 2 percent of the population. This should be regarded as a lower bound, as undercounting likely affects all categories.

**Table 3 Severely housing deprived people by housing deprivation category, count and prevalence rate, 2018**

Broad living situation (NZ Definition of Homelessness category)		Specific living situation	2018	
			No. people	Prevalence rate per 10,000 people <sup>2</sup>
1	Without shelter	Roofless / rough sleeper	207	0.4
		Improvised dwelling	1,347	2.9
		Mobile dwelling	2,070	4.4
		<b>Subtotal</b>	<b>3,624</b>	<b>7.7</b>
2	Emergency and transitional accomm. (NGO-run)	Night shelter	69	0.1
		Women's refuge	96	0.2
		Other accommodation for homeless people	1,530	3.3
		<b>Subtotal</b>	<b>1,695</b>	<b>3.6</b>
	Commercial accomm. <sup>1</sup>	Camping ground / motor camp	1,521	3.2
		Boarding houses, hotels, motels, vessels	4,668	9.9
		<b>Subtotal</b>	<b>6,189</b>	<b>13.2</b>
Marae <sup>1</sup>		45	0.1	
<b>Subtotal (temporary accommodation)</b>		<b>7,929</b>	<b>16.9</b>	
3	Sharing accommodation (temporary resident in a severely crowded private dwelling)		30,171	64.2
<b>Total categories 1, 2 &amp; 3</b>			<b>41,724</b>	<b>88.8</b>
4	Uninhabitable housing (housing that lacks one or more basic amenities)		60,399	128.5
<b>Total severely housing deprived</b>			<b>102,123</b>	<b>217.3</b>

**Notes:**

<sup>1</sup> Numbers of people in the 'Commercial accommodation' categories are counts random rounded to base three plus proportions of children living in that dwelling type ('Prorata allocation of children' - see Figure 1 and Amore et al., 2013 for rationale). As such, these values are not divisible by three.

<sup>2</sup> Denominator is the 2018 NZ usually resident population.

**Sources:** Data analysed here were sourced from Stats NZ, HUD, and emergency housing providers.

The following tables present data, and totals, for the first three categories of severe housing deprivation, which have been reported previously. Similar information and totals including those in the fourth category, uninhabitable housing, are presented in Appendix 3.

Table 4 shows key demographics of the population identified as severely housing deprived in 2018 under the first three categories. Echoing findings in previous years: the population was predominantly young, with nearly 50 percent aged under 25 years; ethnic minorities were disproportionately affected; and similar numbers of males and females were severely housing deprived.



**Table 4 Severely housing deprived people by housing deprivation type, sex, age, and ethnicity – count, percentage, and prevalence rate, 2018 – first three categories**

Characteristic	Category	NZ Definition of Homelessness (NZDH) category						Total severely housing deprived <sup>1</sup>		
		Without shelter		Temporary accommodation <sup>1</sup>		Sharing accommodation		No. people	% of all severely housing deprived people	Prevalence rate per 10,000 people <sup>4</sup>
		No. people	% of people without shelter	No. people	% of people in temporary accomm.	No. people	% of people sharing accomm.			
Sex	Male	1,977	54.6	4,124	54.8	14,355	47.6	20,456	49.5	88.2
	Female	1,644	45.4	3,402	45.2	15,813	52.4	20,859	50.5	87.6
Age (years)	<15	576	15.9	585	7.8	6,867	22.8	8,028	19.4	86.9
	15-24	324	9.0	1,459	19.4	10,152	33.6	11,935	28.9	192.7
	25-34	291	8.0	1,454	19.4	6,138	20.3	7,883	19.1	119.2
	35-44	381	10.5	911	12.1	2,319	7.7	3,611	8.7	61.5
	45-64	1,410	39.0	2,183	29.1	3,141	10.4	6,734	16.3	56.4
	65 +	633	17.5	914	12.2	1,551	5.1	3,098	7.5	43.3
Ethnicity <sup>2</sup>	European	2,514	73.4	3,548	59.5	7,512	25.8	13,574	35.2	41.2
	Māori	900	26.3	1,089	18.3	10,890	37.4	12,879	33.4	166.0
	Pacific	222	6.5	521	8.7	8,625	29.6	9,368	24.3	245.5
	Asian	168	4.9	1,143	19.2	7,299	25.0	8,610	22.3	121.7
	MELAA <sup>3</sup>	33	1.0	172	2.9	525	1.8	730	1.9	103.8
	Other	63	1.8	64	1.1	108	0.4	235	0.6	40.5

**Notes:**

<sup>1</sup> All data in this table do not include 'prorata' proportions of children in non-private dwellings. Very little ethnicity data were available for people in Emergency and transitional accommodation. Therefore, the total severely housing deprived populations for this table vary by characteristic and are all less than in Table 3.

<sup>2</sup> People who reported more than one ethnic group are counted once in each group reported. This means that the total number of responses for all ethnic groups can be greater than the total number of people who stated their ethnicities.

<sup>3</sup> MELAA = Middle Eastern, Latin American and African.

<sup>4</sup> Denominator population is NZ usual residents in each category, e.g. top row ('Male' category) denominator is all NZ (usually resident) males.

**Sources:** Data analysed here were sourced from Stats NZ, HUD, and emergency housing providers.

Table 5 looks at severe housing deprivation (first three categories) by ethnicity. Most markedly, rates of ‘Sharing accommodation’ were much higher among non-European ethnicities, especially Pacific people and Māori. This reflects relative socioeconomic disadvantage and the influence of culture (including manaakitanga) on responses to housing need.

**Table 5 Severely housing deprived people by housing deprivation category and ethnicity – count and prevalence rate, 2018 - first three categories**

Characteristic	Category	Ethnicity <sup>1,2</sup>									
		European		Māori		Pacific peoples		Asian		MELAA <sup>3</sup>	
		No. people	Prevalence rate per 10,000 European people <sup>4</sup>	No. people	Prevalence rate per 10,000 Māori people <sup>4</sup>	No. people	Prevalence rate per 10,000 Pacific people <sup>4</sup>	No. people	Prevalence rate per 10,000 Asian people <sup>4</sup>	No. people	Prevalence rate per 10,000 MELAA people <sup>4</sup>
NZ Definition of Homelessness (NZDH) category	Without shelter	2,514	7.6	900	11.6	222	5.8	168	2.4	33	4.7
	Temporary accommodation <sup>5</sup>	3,548	10.8	1,089	14.0	521	13.7	1,143	16.2	172	24.5
	Sharing accommodation	7,512	22.8	10,890	140.4	8,625	226.0	7,299	103.2	525	74.6
<b>Total severely housing deprived</b>		13,574	41.6	41.2	167.8	9368	249.0	8610	124.3	730	106.8

**Notes:**

<sup>1</sup> People who reported more than one ethnic group are counted once in each group reported. This means that the total number of responses for all ethnic groups can be greater than the total number of people who stated their ethnicities.

<sup>2</sup> Data in this table predominantly reflect only those severely housing deprived people identified in the 2018 Census. Very little ethnicity data were available for people in Emergency and transitional accommodation, and it does not include ‘prorata’ proportions of children in non-private dwellings. Therefore, the total severely housing deprived population for this table is less than in Table 3.

<sup>3</sup> MELAA = Middle Eastern, Latin American and African.

<sup>4</sup> Denominator population is NZ usual residents of each ethnicity, e.g. right-most column (MELAA) denominator is all NZ usual residents who identify with a MELAA ethnicity.

<sup>5</sup> A small proportion of the data presented here are from emergency housing providers. This has been added on to the randomly rounded Census output.

**Source:** Data analysed here were sourced from Stats NZ and emergency housing providers.

Table 6 shows that severe housing deprivation was disproportionately experienced by young people, with 15-24 year olds having the highest rate of severe housing deprivation across all ethnic groups. People who identify as Māori or Pacific had high rates of severe housing deprivation across all age groups.

**Table 6 Severely housing deprived people by sex and age – count and prevalence rate, 2018 – first three categories**

		Ethnicity <sup>1,2</sup>									
		European		Māori		Pacific peoples		Asian		MELAA <sup>3</sup>	
Characteristic	Category	No. people	Prevalence rate per 10,000 people <sup>4</sup>	No. people	Prevalence rate per 10,000 people <sup>4</sup>	No. people	Prevalence rate per 10,000 people <sup>4</sup>	No. people	Prevalence rate per 10,000 people <sup>4</sup>	No. people	Prevalence rate per 10,000 people <sup>4</sup>
<b>Sex</b>	Male	6,840	42.4	5,934	154.9	4,353	227.4	4,434	127.1	348	97.5
	Female	6,690	39.7	6,900	175.7	5,010	263.3	4,170	116.3	378	109.1
<b>Age (years)</b>	0-14	2,361	38.0	4,065	163.4	2,982	232.7	666	46.3	96	55.4
	15-24	3,684	91.9	3,654	272.2	2,670	365.4	3,045	286.6	186	189.4
	25-34	1,932	50.9	2,013	234.0	1,521	358.9	2,457	213.5	261	206.7
	35-44	993	11.9	1,083	62.7	657	81.9	831	43.0	93	46.7
	45-64	3,045	70.2	1,632	249.7	1,014	407.2	960	169.2	72	176.0
	65+	1,521	24.8	387	80.2	519	256.5	645	141.9	18	68.3
<b>Total severely housing deprived</b>		13,530	--	12,834	--	9,363	--	8,604	--	726	--

**Notes:**

<sup>1</sup> People who reported more than one ethnic group are counted once in each group reported. This means that the total number of responses for all ethnic groups can be greater than the total number of people who stated their ethnicities. Only people who stated their ethnicities are included in this table, there are no imputed ethnicities.

<sup>2</sup> Data in this table reflect only those severely housing deprived people identified in the 2018 Census. It does not include people in Emergency and Transitional accommodation or 'prorata' proportions of children in non-private dwellings. Therefore, the total severely housing deprived population for this table is less than in Table 3.

<sup>3</sup> MELAA = Middle Eastern, Latin American and African.

<sup>4</sup> Denominator population is NZ usual residents in each category, e.g. the denominator for the prevalence rate of severely housing deprived Pacific females is all NZ usually resident Pacific females.

**Source:** Data analysed here were sourced from Stats NZ and emergency housing providers.

Table 7 shows the geographic distribution of severe housing deprivation (first three categories) by regional council in 2018, with nearly half of the severely housing deprived population living in the Auckland region. The highest rates of severe housing deprivation were in Northland, Auckland, and Gisborne, while the lowest rates were in Southland, Canterbury, and Taranaki regional council areas. Northland and West Coast had the highest rates of people living without shelter; Tasman and Nelson had the highest rates of people living in temporary accommodation; and Auckland and Gisborne the highest rates of people sharing accommodation.

**Table 7 Severely housing deprived population by housing deprivation type and regional council area – count, percentage, and prevalence rate, 2018 –first three categories**

Regional council	NZ Definition of Homelessness (NZDH) category						Total severely housing deprived		
	Without shelter		Temporary accommodation		Sharing accommodation		No. people	% of all severely housing deprived people	Preval. rate per 10,000 people <sup>1</sup>
No. people	Preval. rate per 10,000 people <sup>1</sup>	No. people	Preval. rate per 10,000 people <sup>1</sup>	No. people	Preval. rate per 10,000 people <sup>1</sup>				
Northland	765	42.7	496	27.7	1407	78.6	2,668	6.4	149.0
Gisborne	42	8.8	78	16.4	450	94.7	570	1.4	120.0
Auckland	510	3.2	2437	15.5	15,210	96.8	18,157	43.8	115.5
Hawke's Bay	123	7.4	366	22.0	1308	78.6	1,797	4.3	108.0
Tasman	129	24.6	231	44.1	174	33.2	534	1.3	101.9
Bay of Plenty	363	11.8	520	16.9	2,244	72.7	3,127	7.6	101.4
Marlborough	75	15.8	175	37.0	171	36.1	421	1.0	88.9
Nelson	33	6.5	250	49.1	144	28.3	427	1.0	83.9
Waikato	489	10.7	407	8.9	2688	58.7	3,584	8.7	78.2
West Coast	102	32.3	90	28.5	45	14.3	237	0.6	75.1
Wellington	228	4.5	843	16.6	2235	44.1	3,306	8.0	65.2
Otago	123	5.5	456	20.2	807	35.8	1,386	3.3	61.5
Manawatu-Whanganui	171	7.2	294	12.3	966	40.5	1,431	3.5	59.9
Canterbury	330	5.5	776	12.9	1779	29.7	2,885	7.0	48.1
Taranaki	84	7.1	93	7.9	348	29.6	525	1.3	44.7
Southland	51	5.2	120	12.3	186	19.1	357	0.9	36.6
<b>Total severely housing deprived<sup>2</sup></b>							<b>41,412</b>	<b>100</b>	-

**Notes:**

<sup>1</sup> Denominator population is NZ usual residents in each category, e.g. top row (Northland) denominator is all NZ usual residents living in Northland.

<sup>2</sup> Data in this table does not include 'prorata' proportions of children in non-private dwellings. Therefore, the total severely housing deprived population for this table is less than in Table 3.

**Sources:** Data analysed here were sourced from Stats NZ, HUD, and emergency housing providers.

Tables 8 and 9 show the geographic distribution of severe housing deprivation by territorial authority in 2018, with the highest rates of severe housing deprivation seen in the rural areas of Kawerau, Far North, and Ōpōtiki. The lowest rates were in Gore, Carterton, and Timaru. These tables should be used with caution, given the small numbers.

**Table 8 Severely housing deprived population by housing deprivation type and territorial authority – count, percentage, and prevalence rate, 2018 – first three categories (territorial authorities with higher prevalence rates)**

Territorial authority <sup>1</sup>	NZ Definition of Homelessness (NZDH) category						Total severely housing deprived		
	Without shelter		Temporary accommodation		Sharing accommodation				
	No. people	Preval. rate per 10,000 people <sup>2</sup>	No. people	Preval. rate per 10,000 people <sup>2</sup>	No. people	Preval. rate per 10,000 people <sup>2</sup>	No. people	% of total severely housing people in NZ	Preval. rate per 10,000 people <sup>2</sup>
Kawerau	s <sup>3</sup>	s	s	s	153	214.1	165	0.4	230.9
Ōpōtiki	45	48.5	21	22.6	126	135.8	192	0.5	207.0
Far North	402	61.6	209	32.0	708	108.5	1,319	3.2	202.1
Mackenzie	18	37.0	36	74.0	15	30.8	69	0.2	141.8
Wairoa	s	s	s	s	87	104.0	114	0.3	136.2
Rotorua	54	7.5	142	19.8	753	104.8	949	2.3	132.0
Hastings	57	7.0	199	24.4	783	96.0	1,039	2.5	127.4
Whakatāne	48	13.4	61	17.1	333	93.3	442	1.1	123.8
Whangarei	249	27.4	230	25.3	618	67.9	1,097	2.7	120.6
Gisborne	42	8.8	78	16.4	453	95.3	573	1.4	120.6
Auckland	510	3.2	2,440	15.5	15,213	96.8	18,163	44.1	115.6
Porirua	45	8.0	110	19.4	498	88.0	653	1.6	115.5
Westland	33	38.2	42	48.6	21	24.3	96	0.2	111.1
Hauraki	72	36.0	30	15.0	120	59.9	222	0.5	110.9
Tasman	129	24.6	228	43.5	174	33.2	531	1.3	101.4
Queenstown-Lakes	15	3.8	117	29.9	270	69.0	402	1.0	102.7
Kaipara	114	49.8	30	13.1	81	35.4	225	0.5	98.4
Buller	45	46.9	30	31.3	18	18.8	93	0.2	97.0
Ruapehu	9	7.3	21	17.1	87	70.7	117	0.3	95.1
South Waikato	s	s	s	S	198	82.4	222	0.5	92.3
Kaikōura	6	15.3	12	30.7	18	46.0	36	0.1	92.0
Hamilton	39	2.4	126	7.8	1,296	80.5	1,461	3.6	90.8
Marlborough	75	15.8	178	37.6	171	36.1	424	1.0	89.6
Western Bay of Plenty	105	20.5	84	16.4	261	50.9	450	1.1	87.7
Waitomo	9	9.7	15	16.1	57	61.3	81	0.2	87.1
Thames-Coromandel	96	32.1	78	26.1	84	28.1	258	0.6	86.3
Napier	27	4.3	119	19.1	384	61.7	530	1.3	85.2
Nelson	33	6.5	250	49.1	144	28.3	427	1.0	83.9
Waikato	135	17.9	42	5.6	429	56.7	606	1.5	80.1
Central Otago	33	15.3	81	37.6	51	23.7	165	0.4	76.5

**Notes:**

<sup>1</sup> Data in this table does not include 'prorata' proportions of children in non-private dwellings. Therefore, the total severely housing deprived population for this table and Table 9 combined is less than in Table 3.

<sup>2</sup> Denominator population is NZ usual residents in each category, e.g. top row (Kawerau) denominator is all NZ usual residents living in Kawerau.

<sup>3</sup> s = suppressed according to Stats NZ confidentiality rules.

**Sources:** Data analysed here were sourced from Stats NZ, HUD, and emergency housing providers.

**Table 9 Severely housing deprived population by housing deprivation type and territorial authority – count, percentage, and prevalence rate, 2018 – first three categories (territorial authorities with lower prevalence rates)**

Territorial authority <sup>1</sup>	NZ Definition of Homelessness (NZDH) category						Total severely housing deprived		
	Without shelter		Temporary accommodation		Sharing accommodation				
	No. people	Preval. rate per 10,000 people <sup>2</sup>	No. people	Preval. rate per 10,000 people <sup>2</sup>	No. people	Preval. rate per 10,000 people <sup>2</sup>	No. people	% of total severely housing people in NZ	Preval. rate per 10,000 people <sup>2</sup>
Taupō	42	11.3	54	14.5	186	50.0	282	0.7	75.8
Horowhenua	39	11.7	27	8.1	174	52.3	240	0.6	72.2
Lower Hutt	30	2.9	91	8.7	588	56.3	709	1.7	67.8
Tauranga	105	7.7	190	13.9	627	45.9	922	2.2	67.4
Otorohanga	s	s	s	s	42	41.6	66	0.2	65.3
Central Hawke's Bay	12	8.5	21	14.8	57	40.3	90	0.2	63.6
Wellington	93	4.6	363	17.9	798	39.4	1,254	3.0	61.9
Palmerston North	21	2.5	138	16.3	351	41.5	510	1.2	60.3
Masterton	s	s	s	s	120	47.0	144	0.3	56.3
Dunedin	48	3.8	216	17.1	432	34.2	696	1.7	55.1
Christchurch	138	3.7	446	12.1	1,434	38.9	2,018	4.9	54.7
Tararua	27	15.0	24	13.4	45	25.1	96	0.2	53.5
Rangitikei	s	s	s	s	66	43.9	78	0.2	51.9
Matamata-Piako	21	6.1	21	6.1	132	38.4	174	0.4	50.6
Whanganui	27	6.0	30	6.6	162	35.8	219	0.5	48.3
South Taranaki	24	8.7	9	3.3	99	36.0	132	0.3	47.9
Upper Hutt	9	2.0	84	19.1	114	25.9	207	0.5	47.1
Waimate	15	19.2	12	15.4	9	11.5	36	0.1	46.1
New Plymouth	48	5.9	81	10.0	240	29.7	369	0.9	45.7
Manawatu	33	10.9	27	9.0	69	22.9	129	0.3	42.8
Kāpiti Coast	27	5.0	96	17.9	105	19.6	228	0.6	42.5
Waitaki	18	8.1	21	9.4	48	21.5	87	0.2	39.0
Invercargill	15	2.8	66	12.2	126	23.2	207	0.5	38.2
Clutha	9	5.1	36	20.4	21	11.9	66	0.2	37.4
Southland	30	9.7	42	13.6	42	13.6	114	0.3	36.9
Waimakariri	66	11.1	80	13.4	72	12.1	218	0.5	36.6
Grey	27	20.2	15	11.2	6	4.5	48	0.1	36.0
Hurunui	18	14.3	18	14.3	9	7.2	45	0.1	35.8
Ashburton	18	5.4	27	8.1	72	21.5	117	0.3	35.0
Stratford	9	9.5	6	6.3	15	15.8	30	0.1	31.7
Waipā	24	4.5	12	2.3	132	24.8	168	0.4	31.6
South Wairarapa	12	11.3	12	11.3	6	5.7	30	0.1	28.4
Selwyn	36	5.9	24	4.0	87	14.4	147	0.4	24.3
Timaru	15	3.2	52	11.2	45	9.7	112	0.3	24.2
Carterton	12	13.0	s	s	s	s	21	0.1	22.8
Gore	s	s	9	7.3	15	12.1	24	0.1	19.4
Chatham Is.	s	s	s	s	s	s	s	s	s
<b>Total severely housing deprived (for tables 8 and 9 combined)<sup>1</sup></b>							<b>41,154</b>	<b>100</b>	-

**Notes:**

<sup>1</sup> Data in this table does not include 'prorata' proportions of children in non-private dwellings. Therefore, the total severely housing deprived population for this table and Table 8 combined is less than in Table 3.

<sup>2</sup> Denominator population is NZ usual residents in each category, e.g. top row (Central Otago) denominator is all NZ usual residents living in Central Otago.

<sup>3</sup> s = suppressed according to Stats NZ confidentiality rules / small numbers.

**Sources:** Data analysed here were sourced from Stats NZ, HUD, and emergency housing providers.

Table 10 shows the breakdown of severe housing deprivation in Auckland across the Auckland local boards. Ōtara-Papatoetoe and Māngere-Ōtāhuhu had high rates of severe housing deprivation, which was driven by high rates of people sharing accommodation in severely crowded houses.

**Table 10 Severely housing deprived population by housing deprivation category and Auckland local board – count, percentage, and prevalence rate, 2018 – first three categories**

Local board	NZ Definition of Homelessness (NZDH) category						Total severely housing deprived people in Auckland		
	Without shelter		Temporary accommodation		Sharing accommodation		No. people	% of total severely housing people in Auckland	Preval. rate per 10,000 people <sup>1</sup>
	No. people	Preval. rate per 10,000 people <sup>1</sup>	No. people	Preval. rate per 10,000 people <sup>1</sup>	No. people	Preval. rate per 10,000 people <sup>1</sup>	No. people	% of total severely housing people in Auckland	Preval. rate per 10,000 people <sup>1</sup>
Māngere-Ōtāhuhu	36	4.6	451	57.5	1,869	238.2	2,356	13.1	300.3
Ōtara-Papatoetoe	39	4.6	39	4.6	2,202	258.7	2,274	12.7	267.1
Manurewa	33	3.4	47	4.9	1,959	204.8	2,039	11.4	213.1
Waitematā	54	6.5	562	67.8	1,104	133.2	1,717	9.6	207.2
Maungakiekie-Tāmaki	9	1.2	78	10.2	1,095	143.5	1,179	6.6	154.6
Papakura	12	2.1	54	9.4	738	128.0	804	4.5	139.5
Puketāpapa	s	s	s	s	690	119.9	738	4.1	128.2
Whau	21	2.6	63	7.9	864	108.9	939	5.2	118.3
Henderson-Massey	45	3.8	103	8.7	1,224	103.4	1,369	7.6	115.6
Albert-Eden	15	1.5	324	32.9	765	77.6	1,104	6.1	111.9
Kaipātiki	9	1.0	90	10.2	552	62.5	648	3.6	73.4
Waitākere Ranges	21	4.0	126	24.2	225	43.2	372	2.1	71.4
Howick	9	0.6	12	0.9	675	47.9	693	3.9	49.2
Franklin	33	4.4	33	4.4	282	37.7	348	1.9	46.5
Upper Harbour	s	s	s	s	273	43.4	294	1.6	46.8
Rodney	81	12.2	66	9.9	117	17.6	261	1.5	39.3
Ōrākei	s	s	s	s	207	24.5	297	1.7	35.2
Devonport-Takapuna	9	1.6	30	5.2	144	24.8	186	1.0	32.1
Hibiscus and Bays	18	1.7	36	3.5	183	17.6	237	1.3	22.8
Aotea / Great Barrier	s	s	s	s	s	s	s	s	s
Waiheke	s	s	s	s	s	s	s	s	s
<b>Total severely housing deprived in Auckland<sup>3</sup></b>							<b>17963</b>	<b>100</b>	<b>-</b>

**Notes:**

<sup>1</sup> Denominator population is NZ usual residents in each category, e.g. top row (Albert-Eden) denominator is all NZ usual residents living in the Albert-Eden local board area.

<sup>2</sup> s = suppressed according to Stats NZ confidentiality rules / small numbers.

<sup>3</sup> Data in this table reflect only those severely housing deprived people identified in the 2018 Census. It does not include people in Emergency and Transitional accommodation or 'prorata' proportions of children in non-private dwellings. It also excludes people in temporary accommodation whose provider did not identify the local board area. Therefore, the total severely housing deprived population for this table is less than in Tables 3, 7, and 8.

**Sources:** Data analysed for this table were sourced from Stats NZ, and emergency housing providers

Table 11 shows counts and rates of severe housing deprivation in 2013 and 2018. This table should be used with caution, given the many factors limiting comparison over time, not least the small numbers in many of the categories. The 2013 figures reported here have been revised according to improvements to the analysis described in Appendix 1. These revisions do not capture the more extensive differences in Census methodologies in 2013 and 2018.

**Table 11 Severely housing deprived population by housing deprivation category – count, prevalence rate, and change over time – 2013 and 2018 - first three categories**

Broad living situation (NZ Definition of Homelessness category)		Specific living situation	2013 (revised)		2018		Change in no. of people	Absolute change in preval. rate per 10,000
			No. people	Preval. rate per 10,000 people <sup>1</sup>	No. people	Preval. rate per 10,000 people <sup>1</sup>		
1	Without shelter	Roofless / rough sleeper	30	0.1	207	0.4	+177	+0.4
		Improvised dwelling	1,425	3.4	1,347	2.9	-78	-0.5
		Mobile dwelling	2,667	6.3	2,070	4.4	-597	-1.9
		<b>Subtotal</b>	<b>4,122</b>	<b>9.7</b>	<b>3,624</b>	<b>7.7</b>	<b>-498</b>	<b>-2.0</b>
2	Emergency and transitional accomm. (NGO-run)	Night shelter	26	0.1	69	0.1	+43	+0.1
		Women's refuge	30	0.1	96	0.2	+66	+0.1
		Other accomm. for homeless people	493	1.2	1,530	3.3	+1,037	+2.1
		<b>Subtotal</b>	<b>549</b>	<b>1.3</b>	<b>1,695</b>	<b>3.6</b>	<b>+1,146</b>	<b>+2.3</b>
	Commercial accomm.	Camping ground / motor camp	1,711	4.0	1,521	3.2	-190	-0.8
		Boarding houses, hotels, motels, vessels	6,144	14.5	4,668	9.9	-1,476	-4.6
		<b>Subtotal</b>	<b>7,855</b>	<b>18.5</b>	<b>6,189</b>	<b>13.2</b>	<b>-1,666</b>	<b>-5.3</b>
	Marae	43	0.1	45	0.1	+2	-0.01	
	<b>Subtotal (temporary accommodation)</b>	<b>8,447</b>	<b>19.9</b>	<b>7,929</b>	<b>16.9</b>	<b>-518</b>	<b>-3.0</b>	
	3	Sharing accommodation (temporary resident in a severely crowded private dwelling)	24,720	58.3	30,171	64.2	+5,451	+5.9
<b>Total severely housing deprived</b>			<b>37,289</b>	<b>87.9</b>	<b>41,724</b>	<b>88.8</b>	<b>+4,435</b>	<b>+0.9</b>

**Note:** <sup>1</sup> Denominator populations are NZ usual residents in the corresponding year.

**Sources:** Data analysed here were sourced from Stats NZ, HUD, and emergency housing providers.



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## Appendix 1. Revisions to the 2013 severe housing deprivation estimate

While analysing the 2018 Census, we made a number of methodological improvements. We applied this improved method to the 2018 Census, and also reanalysed the 2013 Census using the same improved method, which saw the 2013 severe housing deprivation estimate revised downwards. Table A1 compares the revised 2013 values with the [previously published 2013 severe housing deprivation estimate](#) (Amore, 2016).

**Table A1 Severely housing deprived people– revised vs previously published figures – count, prevalence rate, and change, 2013**

Broad living situation (NZ Definition of Homelessness category)		Specific living situation	Revised		Previously published <sup>1</sup>		Change in no. of people	
			No. people	Preval. rate per 10,000 people	No. people	Preval. rate per 10,000 people		
1	Without shelter	Roofless / rough sleeper	30	0.1	15	0.04	+15	
		Improvised dwelling	1,425	3.4	1,398	3.3	+27	
		Mobile dwelling	2,667	6.3	2,784	6.6	-117	
		<b>Subtotal</b>	<b>4,122</b>	<b>9.7</b>	<b>4,197</b>	<b>9.9</b>	<b>-75</b>	
2	Emergency and transitional accomm. (NGO-run)	Night shelter	26	0.1	26	0.1	0	
		Women's refuge	30	0.1	30	0.1	0	
		Other accommodation for homeless people	493	1.2	493	1.2	0	
		<b>Subtotal</b>	<b>549</b>	<b>1.3</b>	<b>549</b>	<b>1.3</b>	<b>0</b>	
	Temporary accomm.	Commercial accomm.	Camping ground / motor camp	1,711	4.0	1,724	4.1	-13
			Boarding houses, hotels, motels, vessels	6,144	14.5	6,127	14.4	+17
			<b>Subtotal</b>	<b>7,855</b>	<b>18.5</b>	<b>7,851</b>	<b>18.5</b>	<b>+4</b>
		Marae	43	0.1	43	0.1	0	
	<b>Subtotal (temporary accommodation)</b>	<b>8,447</b>	<b>19.9</b>	<b>8,443</b>	<b>19.9</b>	<b>+4</b>		
3	Sharing accommodation (temporary resident in a severely crowded private dwelling)		24,720	58.3	28,563	67.3	-3,843	
<b>Total severely housing deprived</b>			<b>37,289</b>	<b>87.9</b>	<b>41,207</b>	<b>97.1</b>	<b>-3,918</b>	

**Note:** <sup>1</sup> Amore, 2016.

**Sources:** Data analysed here were sourced from Stats NZ, Ministry of Housing and Urban Development, and emergency housing providers.

## Improvements made to the Census analysis

1. Raw equivalised income values were compared with a raw poverty threshold.
  - This change is responsible for most of the difference in the revised 2013 severe housing deprivation estimate compared with the previously published figures.
  - Previously, we aggregated equivalised income values into income bands, then compared these bands with a poverty threshold that had also been rounded to the top of its income band.
  - This change better reflects how the low-income population is identified in NZDep – the New Zealand Deprivation Index (Atkinson, et al., 2019). We have always sought to follow NZDep as closely as possible because their poverty thresholds were developed for application to Census data.
2. Crowding was calculated at the dwelling level for permanent private dwellings.
  - It was previously calculated at the household level, which is the standard unit of analysis for crowding analysis. However, this excluded people who report having 'no fixed abode', who should be included in an analysis of severe housing deprivation (homelessness).
3. Income was calculated at the dwelling level for improvised and mobile dwellings.
  - As per point 2, income was also previously calculated at the household level for improvised and mobile dwellings. However, this excluded people who report having 'no fixed abode', who should be included in this analysis.
4. All people in the 'Roofless or rough sleeper' category were classified as severely housing deprived.
  - This change was prompted by the improved quality of this category in the 2018 Census (see Methodology section for further discussion).
5. Absentees were included in the calculation of Jensen (1988) equivalised family income prior to applying the poverty threshold. They were previously excluded.
6. Dwelling-level benefit filter was applied.
  - This filter identifies residents of improvised and mobile dwellings as having low incomes if at least one of the dwelling residents receives a means-tested benefit.

## Appendix 1 references

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## Appendix 2. Definition and methodology for measuring severe housing deprivation: A brief history

### New Zealand Definition of Homelessness

The New Zealand Definition of Homelessness (NZDH) is the official statistical standard of homelessness. Its development started in 2008, when a government cross-agency working group was formed to develop a definition of homelessness for policy planning purposes (Stats NZ, 2009). This group developed a draft definition of homelessness, after consultation with a range of stakeholders from central and local government, as well as community organisations and researchers. Stats NZ published a draft definition in 2009, which was reviewed and finalised in 2015, with no change to the definition itself (Stats NZ, 2015). It states:

Homelessness is defined as living situations where people with no other options to acquire safe and secure housing: are without shelter, in temporary accommodation, sharing accommodation with a household or living in uninhabitable housing.

The NZDH is both a conceptual definition and classification, i.e. it sets out the criteria for homelessness and divides the homeless population into categories.

### Amore et al.

Amore, Viggers, Baker, and Howden-Chapman (2013) reviewed the NZDH (and other definitions) and found some issues with its theoretical underpinning (see also Amore, 2019). With a view to measurement, they sought to develop and clarify the theory, classification, and operational definition of severe housing deprivation (homelessness). Some of this work was carried out as an [Official Statistics Research](#) project with support from Stats NZ.

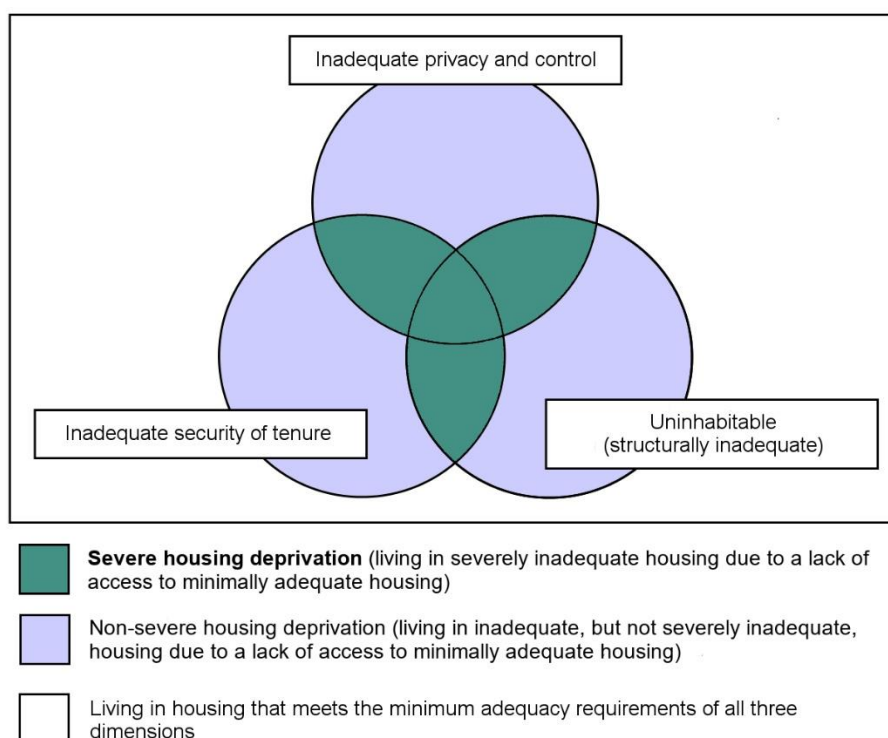
### Definition

Amore et al. defined severe housing deprivation (homelessness) by two conceptual criteria:

1. A person is living in severely inadequate housing (that is, housing below a minimum adequacy standard), due to;
2. A lack of access to housing that meets the minimum adequacy standard (rather than living in such circumstances as a matter of choice).

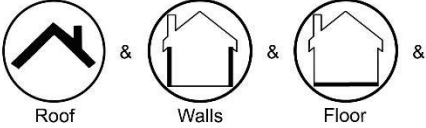

Unpacking Criterion 1, severely inadequate housing was defined as housing lacking in two or more of three core dimensions: habitability (structural features); privacy and control; and security of tenure (Figure A1). These dimensions were drawn from the European 'ETHOS' typology of homelessness (Edgar, 2009) and were the foundation of the NZDH. Amore et al. (2013) proposed definitions of these dimensions for New Zealand (Table A2). Basic amenities data was collected in New Zealand for the first time in the 2018 Census, this data was considered in various combinations by Viggers et al (2021). The final selection was a house lacking basic amenities was lacking in one of six, of: drinkable tap water, electricity, cooking facilities, a kitchen sink, bath or shower, and a toilet.

**Figure A1 Conceptual model of severe housing deprivation**



Source: Amore et al. (2013, p.5), adapted from Edgar (2009).

**Table A2 The three core dimensions of housing adequacy, broken down into the basic criteria for each dimension**

Dimension	Basic requirements
Habitability (structural features)	<p>1 Enclosure</p>  <p>Roof &amp; Walls &amp; Floor</p> <p>2 Basic amenities</p>  <p>Drinkable water &amp; Toilet &amp; Bath or shower &amp; Cooking facilities &amp; Energy source</p>
Privacy and control	<p>1 The dwelling is enclosed (as per Habitability criterion 1); <i>and</i></p> <p>2 The dwelling has all basic amenities (as per Habitability criterion 2); <i>and</i></p> <p>3 The dwelling is managed by the resident/s on a day-to-day basis (not by an external party) – that is, it is a private dwelling; <i>and</i></p> <p>4 The person is a permanent resident (not staying in the dwelling on a temporary basis).</p>
Security of tenure	<p>Legal termination of tenancy rights are equal to the minimum provided to people living in private rental housing.</p>

Source: Adapted from Amore et al. (2013, p.5).

## Classification

Amore et al. developed a classification of severe housing deprivation by applying their criteria systematically to the United Nation's classification of housing (2008) (Table A3).

**Table A3 Classification of severe housing deprivation**

Broad living situation (NZ Definition of Homelessness category)		Specific living situation
1	Without shelter	Roofless / rough sleeper
		Improvised dwelling
		Mobile dwelling
2	Targeted to homeless people (Emergency and transitional housing)	Night shelter
		Women's refuge
		Other accommodation for homeless people
	Not targeted to homeless people	Institution not targeted to people who lack access to minimally adequate housing (e.g. 'overstaying' in hospital solely due to lack of housing)
		Camping ground / motor camp
		Boarding houses, hotels, motels, vessels
		Marae <sup>2</sup>
3	Sharing accommodation	Temporary resident in a severely crowded private dwelling
4	Uninhabitable housing	Rented or owned private housing that lacks one or more basic amenities

Amore et al. applied this classification to routinely collected data – the Census of Population and Dwellings, supplemented with anonymous data collected from managers of accommodation targeted to homeless people. Using this information, estimates of severe housing deprivation were produced for 2001 and 2006 (Amore et al., 2013). Amore (2016) subsequently applied this same methodology to the 2013 Census. This present report applies the same concept and classification of severe housing deprivation to 2018 data and provides a revised severe housing deprivation estimate for 2013, based on improvements made to the methodology (see Appendix 1).

## Appendix 2 references

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## Appendix 3. June 2021 updates to figures

Appendix 3 presents the tables again, with the inclusion of uninhabitable housing. For further information regarding the methodology, and caveats associated with the basic amenities data, please see Viggers et al (2021).

**Table A Severely housing deprived people– revised vs previously published figures – count, prevalence rate, and change, 2018**

Broad living situation (NZ Definition of Homelessness category)		Specific living situation	Revised		Previously published <sup>1</sup>		Change in no. of people
			No. people	Preval. rate per 10,000 people	No. people	Preval. rate per 10,000 people	
1	Without shelter	Roofless / rough sleeper	207	0.4	195	0.4	+12
		Improvised dwelling	1,347	2.9	1,311	2.8	+36
		Mobile dwelling	2,070	4.4	2,016	4.3	+54
		<b>Subtotal</b>	<b>3,624</b>	<b>7.7</b>	<b>3,522</b>	<b>7.5</b>	<b>+102</b>
2	Emergency and transitional accomm. (NGO-run)	Night shelter	69	0.1	69	0.1	0
		Women's refuge	96	0.2	96	0.2	0
		Other accommodation for homeless people	1,530	3.3	1,530	3.3	0
		<b>Subtotal</b>	<b>1,695</b>	<b>3.6</b>	<b>1,695</b>	<b>3.6</b>	<b>0</b>
	Temporary accomm. Commercial accomm.	Camping ground / motor camp	1,521	3.2	1,431	3	+90
		Boarding houses, hotels, motels, vessels	4,668	9.9	4,396	9.4	+272
		<b>Subtotal</b>	<b>6,189</b>	<b>13.2</b>	<b>5,827</b>	<b>12.4</b>	<b>+362</b>
	Marae	45	0.1	45	0.1	0	
	<b>Subtotal (temporary accommodation)</b>	<b>7,929</b>	<b>16.9</b>	<b>7,567</b>	<b>16.1</b>	<b>+362</b>	
3	Sharing accommodation (temporary resident in a severely crowded private dwelling)		30,171	64.2	30,555	65	-384
<b>Total categories 1, 2 and 3</b>			<b>41,724</b>	<b>88.8</b>	<b>41,644</b>	<b>88.6</b>	<b>+80</b>
4	Uninhabitable housing		60,399	128.5	n/a	n/a	n/a
<b>Total severely housing deprived</b>			<b>102,123</b>	<b>217.3</b>	<b>-</b>	<b>-</b>	<b>-</b>

**Note:** <sup>1</sup> Amore, Viggers, Howden-Chapman, 2020.

**Sources:** Data analysed here were sourced from Stats NZ, Ministry of Housing and Urban Development, and emergency housing providers.



Table B shows the key demographics in the population labelled as severely housing deprived in 2018 using all four categories. It echoes findings from the previously published first three categories:

- the population was predominantly young although this definition included a greater proportion of those aged under 15
- ethnic minorities were disproportionately affected.

Table C looks at the four categories of severe housing deprivation by ethnicity. Most markedly, rates of 'Uninhabitable Housing' were much higher among non-European ethnicities, especially Pacific and MELAA people. This reflects the relative socioeconomic disadvantage migrant status has on responses to housing need.

Table D shows that the full (four category) severe housing deprivation was disproportionately experienced by young people with 15-24-year-olds having the highest rates across all ethnic groups followed by under-15-year-olds for all ethnic groups except Asian, for whom over 65-year-olds also had high rates. People who identify with Pacific ethnicities had high rates across all age groups.

Table E shows the geographic distribution of (the full four category) severe housing deprivation by regional council in 2018, with nearly half of the severely housing deprived population living in the Auckland region. The highest rates of severe housing deprivation were in Gisborne and Northland, while the lowest rates were in the Southland, Canterbury, and Taranaki regional council areas. Gisborne and West Coast had the highest rates of people living in uninhabitable housing.

Table F shows the breakdown of severe housing deprivation (all four categories) in Auckland across the Auckland local boards. Māngere-Ōtāhuhu and Ōtara-Papatoetoe had high rates of severe housing deprivation; as did Aotea/Great Barrier although this may be an artefact of a low population.

**Table B Severely housing deprived people by housing deprivation type, sex, age, and ethnicity – count, percentage, and prevalence rate, 2018 – all four categories**

Characteristic	Category	NZ Definition of Homelessness (NZDH) category								Total severely housing deprived <sup>1</sup>		
		Without shelter		Temporary accommodation <sup>1</sup>		Sharing accommodation		Uninhabitable housing		No. people	% of all severely housing deprived people	Prevalence rate per 10,000 people <sup>4</sup>
		No. people	% of people without shelter	No. people	% of people in temporary accomm.	No. people	% of people sharing accomm.	No. people	% of people in uninhabitable housing			
Sex	Male	1,977	54.6	4,124	54.8	14,355	47.6	27,810	46.0	48,269	47.5	208.1
	Female	1,644	45.4	3,402	45.2	15,813	52.4	32,589	54.0	53,448	52.5	224.6
Age (years)	<15	576	15.9	585	7.4	6,867	22.8	18,117	30.0	26,145	25.7	283.1
	15-24	324	9.0	1,459	18.4	10,152	33.6	9,108	15.1	21,043	20.7	339.8
	25-34	291	8.0	1,454	18.3	6,138	20.3	7,740	12.8	15,623	15.4	236.2
	35-44	381	10.5	911	11.5	2,319	7.7	7,020	11.6	10,631	10.5	181.2
	45-64	1,410	39.0	2,183	27.5	3,141	10.4	12,447	20.6	19,181	18.9	160.7
	65 +	633	17.5	914	11.5	1,551	5.1	5,970	9.9	9,068	8.9	126.8
Ethnicity <sup>2</sup>	European	2,514	73.4	3,548	59.5	7,512	25.8	21,894	36.3	35,468	36.3	107.5
	Māori	900	26.3	1,089	18.3	10,890	37.4	15,327	25.9	28,206	28.8	363.6
	Pacific	222	6.5	521	8.7	8,625	29.6	12,690	21.4	22,058	22.6	578.0
	Asian	168	4.9	1,143	19.2	7,299	25	15,762	26.6	24,372	24.9	344.4
	MELAA <sup>3</sup>	33	1.0	172	2.9	525	1.8	2,250	3.8	2,980	3.0	423.7
	Other	63	1.8	64	1.1	108	0.4	561	0.9	796	0.8	137.1

**Notes:**

<sup>1</sup> All data in this table does not include 'prorata' proportions of children in non-private dwellings. Very little ethnicity data was available for people in Emergency and Transitional accommodation. Therefore, the total severely housing deprived populations for this table vary by characteristic and are all less than in Table 3.

<sup>2</sup> People who reported more than one ethnic group are counted once in each group reported. This means that the total number of responses for all ethnic groups can be greater than the total number of people who stated their ethnicities.

<sup>3</sup> MELAA = Middle Eastern, Latin American and African.

<sup>4</sup> Denominator population is NZ usual residents in each category, e.g. top row ('Male' category) denominator is all NZ (usually resident) males.

**Sources:** Data analysed here were sourced from Stats NZ, HUD, and emergency housing providers.

**Table C Severely housing deprived people by housing deprivation category and ethnicity – count and prevalence rate, 2018 – all four categories**

Characteristic	Category	Ethnicity <sup>1,2</sup>									
		European		Māori		Pacific peoples		Asian		MELAA <sup>3</sup>	
		No. people	Prevalence rate per 10,000 European people <sup>4</sup>	No. people	Prevalence rate per 10,000 Māori people <sup>4</sup>	No. people	Prevalence rate per 10,000 Pacific people <sup>4</sup>	No. people	Prevalence rate per 10,000 Asian people <sup>4</sup>	No. people	Prevalence rate per 10,000 MELAA people <sup>4</sup>
<b>NZ Definition of Homelessness (NZDH) category</b>	Without shelter	2,514	7.6	900	11.6	222	5.8	168	2.4	33	4.7
	Temporary accommodation	3,548	10.8	1,089	14.0	521	13.7	1,143	16.2	172	24.5
	Sharing accommodation	7,512	22.8	10,890	140.4	8,625	226.0	7,299	103.2	525	74.6
	Uninhabitable housing	21,894	66.4	15,327	197.6	12,690	332.5	15,762	222.8	2,250	319.9
<b>Total severely housing deprived</b>		<b>35,468</b>	<b>107.5</b>	<b>28,206</b>	363.6	<b>22,058</b>	578.0	<b>24,372</b>	344.4	<b>2,980</b>	423.7

**Notes:**

<sup>1</sup> People who reported more than one ethnic group are counted once in each group reported. This means that the total number of responses for all ethnic groups can be greater than the total number of people who stated their ethnicities.

<sup>2</sup> Data in this table predominantly reflect only those severely housing deprived people identified in the 2018 Census. . Very little ethnicity data was available for people in Emergency and transitional accommodation, and it does not include 'prorata' proportions of children in non-private dwellings. Therefore, the total severely housing deprived population for this table is less than in Table 3.

<sup>3</sup> MELAA = Middle Eastern, Latin American and African.

<sup>4</sup> Denominator population is NZ usual residents of each ethnicity, e.g. right-most column (MELAA) denominator is all NZ usual residents who identify with a MELAA ethnicity.

**Source:** Data analysed here were sourced from Stats NZ and emergency housing providers.

**Table D Severely housing deprived people by sex and age – count and prevalence rate, 2018 – all four categories**

		Ethnicity <sup>1,2</sup>									
		European		Māori		Pacific peoples		Asian		MELAA <sup>3</sup>	
Characteristic	Category	No. people	Prevalence rate per 10,000 people <sup>4</sup>	No. people	Prevalence rate per 10,000 people <sup>4</sup>	No. people	Prevalence rate per 10,000 people <sup>4</sup>	No. people	Prevalence rate per 10,000 people <sup>4</sup>	No. people	Prevalence rate per 10,000 people <sup>4</sup>
<b>Sex</b>	Male	16,707	104.5	12,594	332.5	10,329	548.1	11,871	348.7	1,437	414.0
	Female	18,717	112.2	15,564	400.1	11,724	624.1	12,498	354.4	1,542	454.6
<b>Age (years)</b>	0-14	8,448	136.8	10,302	417.6	8,280	652.3	4,638	325.8	834	486.0
	15-24	6,285	159.1	6,036	455.7	5,049	702.8	5,607	544.3	564	591.6
	25-34	4,158	108.4	3,927	373.3	2,982	551.6	4,977	317.0	675	431.4
	35-44	3,012	79.8	2,538	297.2	1,965	469.4	3,354	296.7	396	318.1
	45-64	8,493	96.0	4,263	283.1	2,760	446.6	3,873	291.6	411	365.6
	65+	5,031	82.8	1,098	231.3	1,023	516.6	1,920	428.1	99	381.1
<b>Total severely housing deprived</b>		<b>35,468</b>		<b>28,206</b>		<b>22,058</b>		<b>24,372</b>		<b>2,980</b>	

**Notes:**

<sup>1</sup> People who reported more than one ethnic group are counted once in each group reported. This means that the total number of responses for all ethnic groups can be greater than the total number of people who stated their ethnicities. Only people who stated their ethnicities are included, no imputed ethnicities

<sup>2</sup> Data in this table reflect only those severely housing deprived people identified in the 2018 Census. It does not include people in Emergency and transitional accommodation or 'prorata' proportions of children in non-private dwellings. Therefore, the total severely housing deprived population for this table is less than in Table 3.

<sup>3</sup> MELAA = Middle Eastern, Latin American and African.

<sup>4</sup> Denominator population is NZ usual residents in each category, e.g. the denominator for the prevalence rate of severely housing deprived Pacific females is all NZ usually resident Pacific females.

**Source:** Data analysed here were sourced from Stats NZ and emergency housing providers.

**Table E Severely housing deprived population by housing deprivation type and regional council area – count, percentage, and prevalence rate, 2018 - all four categories**

	NZ Definition of Homelessness (NZDH) category								Total severely housing deprived		
	Without shelter		Temporary accommodation		Sharing accommodation		Uninhabitable housing				
Regional council	No. people	Prevalence rate per 10,000 people <sup>1</sup>	No. people	Prevalence rate per 10,000 people <sup>1</sup>	No. people	Prevalence rate per 10,000 people <sup>1</sup>	No. people	Prevalence rate per 10,000 people <sup>1</sup>	No. people	% of all severely housing deprived people	Prevalence rate per 10,000 people <sup>1</sup>
Gisborne	42	8.8	78	16.4	450	94.7	927	195.1	1,500	1.5	315.7
Northland	765	42.7	496	27.7	1,407	78.6	2,889	161.3	5,554	5.5	310.1
Hawke's Bay	123	7.4	366	22	1,308	78.6	3,012	181.0	4,809	4.7	289.1
Auckland	510	3.2	2,437	15.5	15,210	96.8	26,580	169.1	44,743	43.9	284.7
West Coast	102	32.3	90	28.5	45	14.3	612	193.8	849	0.8	268.9
Manawatu-Whanganui	171	7.2	294	12.3	966	40.5	3,735	156.4	5,166	5.1	216.3
Waikato	489	10.7	407	8.9	2,688	58.7	5,505	120.1	9,086	8.9	198.3
Bay of Plenty	363	11.8	520	16.9	2,244	72.7	2,691	87.2	5,821	5.7	188.7
Tasman	129	24.6	231	44.1	174	33.2	375	71.6	912	0.9	174.1
Marlborough	75	15.8	175	37	171	36.1	390	82.4	811	0.8	171.3
Wellington	228	4.5	843	16.6	2,235	44.1	4,890	96.5	8,199	8.1	161.8
Nelson	33	6.5	250	49.1	144	28.3	393	77.2	820	0.8	161.2
Otago	123	5.5	456	20.2	807	35.8	1,818	80.7	3,207	3.1	142.4
Southland	51	5.2	120	12.3	186	19.1	966	99.1	1,320	1.3	135.4
Taranaki	84	7.1	93	7.9	348	29.6	1,059	90.1	1,590	1.6	135.2
Canterbury	330	5.5	776	12.9	1,779	29.7	4,536	75.6	7,418	7.3	123.7
<b>Total severely housing deprived<sup>2</sup></b>									<b>101,823</b>	<b>100</b>	<b>-</b>

**Table F Severely housing deprived population by housing deprivation category and Auckland local board – count, percentage, and prevalence rate, 2018**

Local board	NZ Definition of Homelessness (NZDH) category								Total severely housing deprived people in Auckland		
	Without shelter		Temporary accommodation		Sharing accommodation		Uninhabitable housing		No. people	% of total severely housing people in Auckland	Preval. rate per 10,000 people <sup>1</sup>
	No. people	Preval. rate per 10,000 people <sup>1</sup>	No. people	Preval. rate per 10,000 people <sup>1</sup>	No. people	Preval. rate per 10,000 people <sup>1</sup>	No. people	Preval. rate per 10,000 people <sup>1</sup>	No. people	% of total severely housing people in Auckland	Preval. rate per 10,000 people <sup>1</sup>
Aotea / Great Barrier	s	s	s	s	s	s	51	544.9	93	0.2	993.6
Māngere-Ōtāhuhu	36	4.6	451	57.5	1,869	238.2	2,823	359.8	5,179	11.6	660.2
Ōtara-Papatoetoe	39	4.6	39	4.6	2,202	258.7	2,712	318.6	4,986	11.2	585.7
Manurewa	33	3.4	47	4.9	1,959	204.8	2,526	264.0	4,565	10.2	477.2
Maungakiekie-Tāmaki	9	1.2	78	10.2	1,095	143.5	1,947	255.2	3,126	7.0	409.8
Waitemātā	54	6.5	562	67.8	1104	133.2	1,440	173.8	3,157	7.1	381.0
Puketāpapa	s	s	s	s	690	119.9	1,191	206.9	1,929	4.3	335.2
Papakura	12	2.1	54	9.4	738	128.0	1,041	180.6	1,845	4.1	320.1
Whau	21	2.6	63	7.9	864	108.9	1,539	193.9	2,478	5.6	312.3
Henderson-Massey	45	3.8	103	8.7	1,224	103.4	2,154	181.9	3,523	7.9	297.5
Albert-Eden	15	1.5	324	32.9	765	77.6	1,281	129.9	2,385	5.4	241.8
Waiheke	s	s	s	s	s	s	123	135.7	189	0.4	208.5
Upper Harbour	s	s	s	s	273	43.4	987	157.1	1,281	2.9	203.8
Howick	9	0.6	12	0.9	675	47.9	2,043	144.9	2,736	6.1	194.1
Kaipātiki	9	1.0	90	10.2	552	62.5	1,032	116.9	1,680	3.8	190.3
Waitākere Ranges	21	4.0	126	24.2	225	43.2	468	89.8	840	1.9	161.2
Devonport-Takapuna	9	1.6	30	5.2	144	24.8	672	115.9	858	1.9	148.0
Franklin	33	4.4	33	4.4	282	37.7	690	92.2	1,038	2.3	138.7
Rodney	81	12.2	66	9.9	117	17.6	567	85.4	828	1.9	124.7
Hibiscus and Bays	18	1.7	36	3.5	183	17.6	780	75.0	1,017	2.3	97.8
Ōrākei	s	s	s	s	207	24.5	519	61.6	816	1.8	96.8
<b>Total severely housing deprived in Auckland<sup>3</sup></b>									<b>44,564</b>	<b>100.0</b>	-