

## Metadata – Social Vulnerability Indicators 2023 (SVI2023)

Version 1.0, published in June 2025.

This document provides information and details about the social vulnerability indicators for 2023. This metadata will be updated in future when additional indicators are added to the indicator set.

Information topic	Details
Indicator set name	<b>Social vulnerability indicators (SVI2023)</b>
Description	This dataset contains social vulnerability indicators for 2023 (SVI2023). These indicators help identify population groups and geographic areas with people who are more vulnerable to negative impacts from climate-related hazards, natural hazards, and other emergencies (such as pandemics). The indicators relate to different aspects of exposure, susceptibility, and lack of resilience to hazards.
Data sources	<ul style="list-style-type: none"> <li>2023 New Zealand Census of Population and Dwellings, Stats NZ</li> <li>NZDep2023 deciles, University of Otago, Wellington</li> <li>2022 Local Authority Election Statistics, Department of Internal Affairs</li> </ul>
Methodology	<p>These indicators have been developed through a robust indicator development process (Mason et al 2021).</p> <p>Details of each indicator are provided in Tables 1 and 2 below. Each indicator has the following variables (where applicable): count, percentage, denominator.</p> <p>Most indicators use data from the Census. However, some indicators had some missing data (see <i>Limitations</i> below for more information). For these indicators, additional variables about the data quality have been provided. In these cases, counts are likely to be an undercount, and should be interpreted with caution. Percentages are calculated among the total stated (ie, excluding unknowns) and are more reliable for these indicators than counts. Lower and upper logical bounds for the percentages have also been provided, which take into account the missing data, and provide lower and upper limits for what the true value of the percentage could be.</p> <ul style="list-style-type: none"> <li>Percent = count / total_stated</li> <li>Lower bound = count / total</li> <li>Upper bound = (count + unknown) / total</li> <li>Total = total_stated + unknown</li> </ul> <p>For a few indicators (ie people living in crowded households; people living in damp dwellings; people living in mouldy dwellings), the logical bounds only cover some sources of missing data. They show the impact of unknowns ('not stated') in the Stats NZ dataset, but do not cover all sources of error (ie</p>

	people who could not be placed in a dwelling), as the size of this population is unknown (see Table 1 for more details).
Time period and time scale	2013, 2018 and 2023
Population coverage	National
Spatial Coverage	Indicators are provided by a range of geographies, including territorial authority (TA), Auckland local board areas, health districts (formerly district health boards), and regional council. Some indicators are also available at the small area (Statistical Area 2 (SA2) and/or SA3) level, and at other geographies (urban areas, wards).
Limitations	<p>These indicators are an indicator at a specific point in time, and may not necessarily reflect current reality. Additional local information would be useful for end-users to include in any vulnerability assessment, to further understand vulnerable populations in their local area.</p> <p>The Census of Population and Dwellings had a lower-than-expected response rate for the 2018 and 2023 Censuses. Stats NZ used a ‘combined Census model’ for the 2023 Census, using data from census form responses as well as from alternative data sources to fill gaps where appropriate. The following alternative data sources were used: historical census data (from the 2018 and 2013 Censuses), administrative data, deterministic derivation (based on information from other census variables), and statistical imputation.</p> <p>For Census variables with missing data (where no alternative data sources were available), additional information about data quality have been included in the SVI dataset.</p> <p>For more information on the combined Census model approach, see: <a href="https://www.stats.govt.nz/methods/data-sources-for-2023-census/">https://www.stats.govt.nz/methods/data-sources-for-2023-census/</a></p> <p>Further information about the data quality of the 2023 Census can be found at: <a href="https://www.stats.govt.nz/2023-census/#data-quality">https://www.stats.govt.nz/2023-census/#data-quality</a></p> <p>For more information about people in households and dwellings (for the indicators on people living in crowded households and damp and mouldy dwellings), see <a href="#">Household crowding index – 2023 Census - Stats NZ DataInfo+</a> and <a href="#">Families and households in the 2023 Census: Data sources, methodology, and data quality</a>.</p>
For more information	For more information about the social vulnerability indicators, see the EHINZ website: <a href="https://www.ehinz.ac.nz/social-vulnerability/">https://www.ehinz.ac.nz/social-vulnerability/</a>

Table 1 presents information about each specific social vulnerability indicator.

**Table 1: Information about specific social vulnerability indicators**

Indicator ID	Indicator name	Source	Description	Numerator	Denominator	Notes
urpop	Census usually resident population	2023 Census – individuals data table	Census usually resident population count	Census usually resident population	n/a	
households	Number of households	2023 Census – households data table	Total households in occupied private dwellings	Number of households	n/a	
urbanrural	Urban-rural classification	2023 Geographic Area Tables	Urban rural classification of SA2: major urban areas, large urban areas, medium urban areas, small urban areas, rural (includes rural settlements and other rural), and water (inlets and oceanic).			SA2 only
rural	Rural population (including inlets and inland water)	2023 Census – individual data table, and 2023 Geographic Area Tables	Census usually resident population living in rural or water areas (ie outside of urban areas)	Usually resident population living in rural or water areas	Usually resident population	<i>Will be released in future outputs</i>
european	European ethnic group (total response) (among total population)	2023 Census – individuals data table	Ethnic group (grouped total responses), for the census usually resident population count	European	Total people stated	
maori	Māori ethnic group (total response) (among total population)	2023 Census – individuals data table	Ethnic group (grouped total responses), for the census usually resident population count	Māori	Total people stated	
pacificpeoples	Pacific peoples ethnic group (total response) (among total population)	2023 Census – individuals data table	Ethnic group (grouped total responses), for the census usually resident population count	Pacific Peoples	Total people stated	
asian	Asian ethnic group (total response) (among total population)	2023 Census – individuals data table	Ethnic group (grouped total responses), for the census usually resident population count	Asian	Total people stated	

Indicator ID	Indicator name	Source	Description	Numerator	Denominator	Notes
melaa	Middle Eastern, Latin American and African (MELAA) ethnic group (total response) (among total population)	2023 Census – individuals data table	Ethnic group (grouped total responses), for the census usually resident population count	MELAA	Total people stated	
u5y	Children aged 0-4 years (among total population)	2023 Census – individuals data table	Age in five-year groups, for the census usually resident population count	0-4 years	Total people	
u15y	Children aged 0-14 years (among total population)	2023 Census – individuals data table	Age in broad groups, for the census usually resident population count	Under 15 years	Total people	
schoolage	Children aged 5-14 years (among total population)	2023 Census – individuals data table	Age in five-year groups, for the census usually resident population count	(5-9 years + 10-14 years)	Total people	
HHchild0-4y	Households with at least one child aged 0-4 years (among total households stated)	2023 Census, customised data request	Households with at least one child aged 0-4 years, among all households stated	Households with at least one child 0-4 years	Total households stated	<i>Will be released in future outputs</i>
HHchild0-14y	Households with at least one child aged 0-14 years (among total households stated)	2023 Census, customised data request	Households with at least one child aged 0-14 years, among all households stated	Households with at least one child 0-14 years	Total households stated	<i>Will be released in future outputs</i>
o65y	Older adults aged 65+ years (among total population)	2023 Census – individuals data table	Usually resident population by age group, for the census usually resident population count	65 years and over	Total people	
o75y	Older adults aged 75+ years (among total population)	2023 Census – individuals data table	Usually resident population by age group, for the census usually resident population count	75 years and over	Total people	
o85y	Older adults aged 85+ years (among total population)	2023 Census – individuals data table	Usually resident population by age group, for the census usually resident population count	85 years and over	Total people	
single65overHH	Households with older adult (65+ years) living alone (among total households stated)	2023 Census – families and households data table	One-person households with person aged 65+ years, for households in occupied private dwellings	One-person households with one person aged 65+ years	Total households stated	Some missing data (completeness rate for variable: 96% in 2023); information on data quality is provided.

Indicator ID	Indicator name	Source	Description	Numerator	Denominator	Notes
u1y	Pregnant women (proxy indicator used, of babies aged 0 years) (among total population)	2023 Census, requested data	Age by sex, for the census usually resident population count (note this indicator is a proxy for pregnant women)	Babies aged less than one year (0 years)	Total people	<i>Will be released in future outputs</i>
NZDep2023	NZ Index of Socioeconomic Deprivation (NZDep2023) deciles (1 = least deprived, 10 = most deprived)	Atkinson et al (2024)	New Zealand Index of Socioeconomic Deprivation 2023 (NZDep2023), which is an area-based measure, based on the nine 2023 Census variables (see Atkinson et al 2024 for more details)	NZDep2023 decile (1 = least deprived 10% of small areas in NZ, 10 = most deprived 10% of small areas in NZ)	n/a	NZDep2023 deciles are available only at the SA1 and SA2 level. SA2 deciles are based on weighted averages of SA1 deciles (Atkinson et al 2024).
highdep	People living in high deprivation areas (deciles 9-10)	NZDep2023 population tables released by Stats NZ (2025), and Atkinson et al (2024)	People living in areas of high socioeconomic deprivation according to the NZDep2023, for the census usually resident population count	Number of people living in NZDep2023 deciles 9 and 10	Total people stated	Based on SA1-level NZDep2023 deciles and aggregated over geographic areas by Stats NZ.
unemployed	People who were unemployed (among 15+ years)	2023 Census – individuals data table	Work and labour force status, for the census usually resident population count aged 15 years and over	Unemployed	Total people stated (among those aged 15+ years)	
nolabourforce	People who were not in the labour force (among 15+ years)	2023 Census – individuals data table	Work and labour force status, for the census usually resident population count aged 15 years and over	Not in the labour force	Total people stated (among those aged 15+ years)	
singleparentHH	Single parent households (among total households stated)	2023 Census, customised data request	Households with one-family households with a single parent family	Households with one parent with child(ren)	Total households stated	<i>Will be released in future outputs</i>
nocar	Households with no motor vehicle (among total households stated)	2023 Census – households data table	Number of motor vehicles, for households in occupied private dwellings	No motor vehicle	Total households stated	Some missing data (completeness rate for variable: 92% in 2018, 91% in 2023). Information on data quality is provided.
onepersonHH	One-person households (among total households stated)	2023 Census – families and households data table	Households with one person, for households in occupied private dwellings	One-person households	Total households stated	Some missing data (completeness rate for variable: 96% in 2018, 96% in 2023). Information on data quality is provided.

Indicator ID	Indicator name	Source	Description	Numerator	Denominator	Notes
immigrant	Immigrant arrived in past year (among total population stated)	2023 Census – individuals data table	Counting the overseas-born usually resident population, years since arrival in New Zealand	Less than one year	Total population, excluding years since arrival not stated	
immigrant01	Immigrant arrived in past 0-1 years (among total population stated)	2023 Census – individuals data table	Counting the overseas-born usually resident population, years since arrival in New Zealand	(Less than one year) + (1 year)	Total population, excluding those with 'years since arrival' not stated	
noenglish	People who do not speak English (among total population stated)	2023 Census – individuals data table	Six languages (total responses), for the census usually resident population count	(Total people stated) - (None, eg too young to talk) - (English)	(Total people stated) - (None, eg too young to talk)	
nomobile	Households with no access to a mobile phone (among total households stated)	2023 Census – households data table	Access to telecommunications, for households in occupied private dwellings	(Total households stated) - (Access to a cellphone mobile phone)	Total households stated	Some missing data (completeness rate for variable: 92% in 2018, 92% in 2023). Information on data quality is provided.
nointernet	Households with no access to the Internet (among total households stated)	2023 Census – households data table	Access to telecommunications, for households in occupied private dwellings	(Total households stated) - (Access to the internet)	Total households stated	Some missing data (completeness rate for variable: 92% in 2018, 92% in 2023). Information on data quality is provided.
rented	Households living in rental housing (among total households stated)	2023 Census – households data table	Tenure of household, for households in occupied private dwellings	Dwellings not owned and not held in family trust	Total households stated	
crowdedhhpeople	People living in crowded households (needing 1+ bedrooms) (among total population stated)	2023 Census – Table of household crowding index, ethnicity, and age for people in households in occupied private dwellings	People living in households that were crowded (needing 1+ bedrooms according to the Canadian National Occupancy Standard), for people in households in occupied private dwellings	People living in households that were crowded (needing 1+ bedrooms)	Total people stated	<p>Some missing data in this indicator. Alternative data sources have been used in some cases. Household crowding data (including 'not stated') covers about 4.64 million people in 2023. This measure excludes people in non-private dwellings and people who could not be placed in a dwelling (about 350,000 people in total).</p> <p>Logical bounds for these percentages only cover some sources of missing data. They show the impact of 'not stated' household crowding, but do not cover all sources of error (ie people who could not be placed in a dwelling) as the size of this population is</p>

Indicator ID	Indicator name	Source	Description	Numerator	Denominator	Notes
						unknown. The bounds should be interpreted as indicative only.
sevcrowdedhhpeople	People living in severely crowded households (needing 2+ bedrooms) (among total population stated)	2023 Census – Table of household crowding index, ethnicity, and age for people in households in occupied private dwellings	People living in households that were severely crowded (needing 2+ bedrooms according to the Canadian National Occupancy Standard), for people in households in occupied private dwellings	People living in households that were severely crowded (needing 2+ bedrooms)	Total people stated	<p>Some missing data in this indicator. Alternative data sources have been used in some cases. Household crowding data (including ‘not stated’) covers about 4.64 million people in 2023. This measure excludes people in non-private dwellings and people who could not be placed in a dwelling (about 350,000 people in total).</p> <p>Logical bounds for these percentages only cover some sources of missing data. They show the impact of ‘not stated’ household crowding, but do not cover all sources of error (ie people who could not be placed in a dwelling) as the size of this population is unknown. The bounds should be interpreted as indicative only.</p>
crowdedhh	Crowded households (needing 1+ bedrooms) (among total households stated)	2023 Census - households table	Households that were crowded (needing 1+ bedrooms according to the Canadian National Occupancy Standard), for households in occupied private dwellings	Households that were crowded (needing 1+ bedrooms)	Total households stated	Some missing data (completeness rate for variable: 95% in 2018, 96% in 2023). Information on data quality is provided.
sevcrowdedhh	Severely crowded households (needing 2+ bedrooms) (among total households stated)	2023 Census - households table	Households that were severely crowded (needing 2+ bedrooms according to the Canadian National Occupancy Standard), for households in occupied private dwellings	Households that were severely crowded (needing 2+ bedrooms)	Total households stated	Some missing data (completeness rate for variable: 95% in 2018, 96% in 2023). Information on data quality is provided.
damp	Dwelling sometimes or always damp (among total dwellings stated)	2023 Census – dwellings data table	Dwellings that are damp (sometimes or all of the time), for occupied private dwellings	Dwellings that are damp (sometimes or all of the time)	Total dwellings stated	Some missing data (completeness rate for variable: 89% in 2018, 89% in 2023). Information on data quality is provided. This Census variable was collected for the first time in 2018.

Indicator ID	Indicator name	Source	Description	Numerator	Denominator	Notes
severedamp	Dwelling always damp (among total dwellings stated)	2023 Census – dwellings data table	Dwellings that are damp (all of the time), for occupied private dwellings	Dwellings that are damp (all of the time)	Total dwellings stated	Some missing data (completeness rate for variable: 89% in 2018, 89% in 2023). Information on data quality is provided. This Census variable was collected for the first time in 2018.
mouldy	Dwelling sometimes or always mouldy (A4 piece of paper sized mould) (among total dwellings stated)	2023 Census – dwellings data table	Dwellings that are mouldy (sometimes or all of the time); mouldy is defined as mould at least the size of an A4 piece of paper, for occupied private dwellings	Dwellings that are mouldy (sometimes or all of the time)	Total dwellings stated	Some missing data (completeness rate for variable: 90% in 2018, 89% in 2023). Information on data quality is provided. This Census variable was collected for the first time in 2018.
severemould	Dwelling always mouldy (A4 piece of paper sized mould) (among total dwellings stated)	2023 Census – dwellings data table	Dwellings that are mouldy (all of the time); mouldy is defined as mould at least the size of an A4 piece of paper, for occupied private dwellings	Dwellings that are mouldy (all of the time)	Total dwellings stated	Some missing data (completeness rate for variable: 90% in 2018, 89% in 2023). Information on data quality is provided. This Census variable was collected for the first time in 2018.
damppeople	People living in dwellings that were sometimes or always damp (among total people stated)	2023 Census – dwelling dampness, ethnicity, age, and gender table	People living in dwellings that were damp (sometimes or all of the time), for people in occupied private dwellings	People living in dwellings that were damp (sometimes or all of the time)	Total people stated	Some missing data in this indicator. Damp dwellings data (including ‘not stated’) covers about 4.57 million people in 2023. This measure excludes people in non-private dwellings and people who could not be placed in a dwelling (about 425,000 people in total).  Logical bounds for these percentages only cover some sources of missing data. They show the impact of ‘not stated’ damp dwellings, but do not cover all sources of error (ie people who could not be placed in a dwelling) as the size of this population is unknown. The bounds should be interpreted as indicative only.
sevdamppeople	People living in dwellings that were always damp (among total people stated)	2023 Census – dwelling dampness, ethnicity, age, and gender table	People living in dwellings that were damp (all of the time), for people in occupied private dwellings	People living in dwellings that were damp (all of the time)	Total people stated, living in occupied private dwellings	Some missing data in this indicator. Damp dwellings data (including ‘not stated’) covers about 4.57 million people in 2023. This measure excludes people in non-private dwellings and people who could not



Indicator ID	Indicator name	Source	Description	Numerator	Denominator	Notes
						<p>be placed in a dwelling (about 425,000 people in total).</p> <p>Logical bounds for these percentages only cover some sources of missing data. They show the impact of ‘not stated’ damp dwellings, but do not cover all sources of error (ie people who could not be placed in a dwelling) as the size of this population is unknown. The bounds should be interpreted as indicative only.</p>
mouldpeople	People living in dwellings that were sometimes or always mouldy (A4 piece of paper sized mould) (among total people stated)	2023 Census – dwelling mould, ethnicity, age, and gender table	People living in dwellings that were mouldy (sometimes or all of the time); mouldy is defined as mould at least the size of an A4 piece of paper, for people in occupied private dwellings	People living in dwellings that were mouldy (sometimes or all of the time)	Total people stated, living in occupied private dwellings	<p>Some missing data in this indicator. Mouldy dwellings data (including ‘not stated’) covers about 4.57 million people in 2023. This measure excludes people in non-private dwellings and people who could not be placed in a dwelling (about 425,000 people in total).</p> <p>Logical bounds for these percentages only cover some sources of missing data. They show the impact of ‘not stated’ mouldy dwellings, but do not cover all sources of error (ie people who could not be placed in a dwelling) as the size of this population is unknown. The bounds should be interpreted as indicative only.</p>
sevmouldpeople	People living in dwellings that were always mouldy (A4 piece of paper sized mould) (among total people stated)	2023 Census – dwelling mould, ethnicity, age, and gender table	People living in dwellings that were mouldy (all of the time); mouldy is defined as mould at least the size of an A4 piece of paper, for people in occupied private dwellings	People living in dwellings that were mouldy (all of the time)	Total people stated, living in occupied private dwellings	<p>Some missing data in this indicator. Mouldy dwellings data (including ‘not stated’) covers about 4.57 million people in 2023. This measure excludes people in non-private dwellings and people who could not be placed in a dwelling (about 425,000 people in total).</p> <p>Logical bounds for these percentages only cover some sources of missing data. They show the impact of ‘not stated’ mouldy dwellings, but do not cover all sources of</p>

Indicator ID	Indicator name	Source	Description	Numerator	Denominator	Notes
						error (ie people who could not be placed in a dwelling) as the size of this population is unknown. The bounds should be interpreted as indicative only.
nosafewater	Dwellings with no access to safe running water (among total dwellings stated)	2023 Census – dwellings data table	Access to basic amenities: dwellings that do not report having access to tap water that is safe to drink, for occupied private dwellings	Total stated – 'tap water that is safe to drink'	Total dwellings stated	Some missing data (completeness rate for variable: 92% in 2018, 91% in 2023). Information on data quality is provided. This Census variable was collected for the first time in 2018.
nofridge	Dwellings with no access to a working fridge (among total dwellings stated)	2023 Census – dwellings data table	Access to basic amenities: dwellings that do not report having access to a refrigerator (that is in working order), for occupied private dwellings	Total stated – 'refrigerator'	Total dwellings stated	Some missing data (completeness rate for variable: 92% in 2018, 91% in 2023). Information on data quality is provided. This Census variable was collected for the first time in 2018.
nopower	Dwellings with no electricity (among total dwellings stated)	2023 Census – dwellings data table	Access to basic amenities: dwellings that do not report having access to electricity, for occupied private dwellings	Total stated – 'electricity'	Total dwellings stated	Some missing data (completeness rate for variable: 92% in 2018, 91% in 2023). Information on data quality is provided. This Census variable was collected for the first time in 2018.
voterturnout	Residential voter turnout in the 2019 and 2022 Local Authority Elections (among residential electors on the roll)	2019 and 2022 Local Authority Election Statistics, Department of Internal Affairs	Residential voter turnout, defined as the number of residential voters divided by the number of residential electors (contested wards only), in the 2019 and 2022 local authority elections (TA summary table)	Number of residential voters	Number of residential electors on the roll (contested wards only)	Only available at the territorial authority level, for years of local body elections.
healthcare15y	People working in the health care and social assistance industry (among 15+ years)	2023 Census – individuals data table	Counting the employed census usually resident population aged 15 years and over, industry (ANZSIC06 V1.0)	Health care and social assistance	Total people stated (among census usually resident population aged 15+ years)	
healthcare15yemp	People working in the health care and social assistance industry (among employed 15+ years)	2023 Census – individuals data table	Counting the employed census usually resident population aged 15 years and over, industry (ANZSIC06 V1.0)	Health care and social assistance	Total people stated (among employed census usually resident population aged 15+ years)	

Indicator ID	Indicator name	Source	Description	Numerator	Denominator	Notes
primaryind15y	People working in the primary industries (among 15+ years)	2023 Census – individuals data table	Counting the employed census usually resident population aged 15 years and over, industry (ANZSIC06 V1.0)	Agriculture, Forestry and Fishing	Total people stated (among census usually resident population aged 15+ years)	
primaryind15yemp	People working in the primary industries (among employed 15+ years)	2023 Census – individuals data table	Counting the employed census usually resident population aged 15 years and over, industry (ANZSIC06 V1.0)	Agriculture, Forestry and Fishing	Total people stated (among employed census usually resident population aged 15+ years)	
samoan	Samoan ethnic group (total response) (among total population)	2023 Census – individuals ethnicity/age/gender data table	Ethnic group (level 3 total responses), for the census usually resident population count	Samoan (includes all people identifying as this ethnic group in the Census)	Total people stated	
cookislands	Cook Islands ethnic group (total response) (among total population)	2023 Census – individuals ethnicity/age/gender data table	Ethnic group (level 3 total responses), for the census usually resident population count	Cook Islands (includes all people identifying as this ethnic group in the Census)	Total people stated	
tongan	Tongan ethnic group (total response) (among total population)	2023 Census – individuals ethnicity/age/gender data table	Ethnic group (level 3 total responses), for the census usually resident population count	Tongan (includes all people identifying as this ethnic group in the Census)	Total people stated	
niuean	Niuean ethnic group (total response) (among total population)	2023 Census – individuals ethnicity/age/gender data table	Ethnic group (level 3 total responses), for the census usually resident population count	Niuean (includes all people identifying as this ethnic group in the Census)	Total people stated	
tokelauan	Tokelauan ethnic group (total response) (among total population)	2023 Census – individuals ethnicity/age/gender data table	Ethnic group (level 3 total responses), for the census usually resident population count	Tokelauan (includes all people identifying as this ethnic group in the Census)	Total people stated	
fijian	Fijian ethnic group (total response) (among total population)	2023 Census – individuals ethnicity/age/gender data table	Ethnic group (level 3 total responses), for the census usually resident population count	Fijian (includes all people identifying as this ethnic group in the Census)	Total people stated	
filipino	Filipino ethnic group (total response) (among total population)	2023 Census – individuals	Ethnic group (level 3 total responses), for the census	Filipino (includes all people identifying as	Total people stated	

Indicator ID	Indicator name	Source	Description	Numerator	Denominator	Notes
		ethnicity/age/gender data table	usually resident population count	this ethnic group in the Census)		
cambodian	Cambodian ethnic group (total response) (among total population)	2023 Census – individuals ethnicity/age/gender data table	Ethnic group (level 3 total responses), for the census usually resident population count	Cambodian (includes all people identifying as this ethnic group in the Census)	Total people stated	
vietnamese	Vietnamese ethnic group (total response) (among total population)	2023 Census – individuals ethnicity/age/gender data table	Ethnic group (level 3 total responses), for the census usually resident population count	Vietnamese (includes all people identifying as this ethnic group in the Census)	Total people stated	
chinese	Chinese ethnic group (total response) (among total population)	2023 Census – individuals ethnicity/age/gender data table	Ethnic group (level 3 total responses), for the census usually resident population count	Chinese (includes all people identifying as this ethnic group in the Census)	Total people stated	
indian	Indian ethnic group (total response) (among total population)	2023 Census – individuals ethnicity/age/gender data table	Ethnic group (level 3 total responses), for the census usually resident population count	Indian (includes all people identifying as this ethnic group in the Census)	Total people stated	
srilankan	Sri Lankan ethnic group (total response) (among total population)	2023 Census – individuals ethnicity/age/gender data table	Ethnic group (level 3 total responses), for the census usually resident population count	Sri Lankan (includes all people identifying as this ethnic group in the Census)	Total people stated	
japanese	Japanese ethnic group (total response) (among total population)	2023 Census – individuals ethnicity/age/gender data table	Ethnic group (level 3 total responses), for the census usually resident population count	Japanese (all people identifying as this ethnic group in the Census)	Total people stated	
korean	Korean ethnic group (total response) (among total population)	2023 Census – individuals ethnicity/age/gender data table	Ethnic group (level 3 total responses), for the census usually resident population count	Korean (all people identifying as this ethnic group in the Census)	Total people stated	
middleeastern	Middle Eastern ethnic group (total response) (among total population)	2023 Census – individuals ethnicity/age/gender data table	Ethnic group (level 3 total responses), for the census usually resident population count	Middle Eastern (includes all people identifying as this ethnic group in the Census)	Total people stated	

Indicator ID	Indicator name	Source	Description	Numerator	Denominator	Notes
latinamerican	Latin American ethnic group (total response) (among total population)	2023 Census – individuals ethnicity/age/gender data table	Ethnic group (level 3 total responses), for the census usually resident population count	Latin American (includes all people identifying as this ethnic group in the Census)	Total people stated	
african	African ethnic group (total response) (among total population)	2023 Census – individuals ethnicity/age/gender data table	Ethnic group (level 3 total responses), for the census usually resident population count	African (includes all people identifying as this ethnic group in the Census)	Total people stated	
NZDep2023_decile1 – NZDep2023_decile10	Population living in NZDep2023 deciles	NZDep2023 population tables released by Stats NZ (2025), and Atkinson et al (2024)	People living in NZDep2023 deciles 1–10, for the census usually resident population count	Number of people living in each NZDep2023 decile	Total people stated	Based on SA1-level NZDep2023 deciles and aggregated over geographic areas by Stats NZ. Only currently available at selected geographies.

### Notes about the indicators

Each indicator has a unique ID, which can be annotated by adding different variable types. The following variable types exist in the dataset:

- *IndicatorID\_count*: Number of units (people/households/dwellings, depending on the indicator) in the group of interest
- *IndicatorID\_percent*: Percentage of units with the indicator, among the total (or among the total stated, if there is missing data)
- *IndicatorID\_denom*: Denominator used to calculate the percentage

For some indicators, missing data has affected the data quality. For these indicators, additional information has been given:

- *IndicatorID\_totalstated*: The total units that have information about the indicator (ie not missing)
- *IndicatorID\_unknown*: The number of units that have missing data
- *IndicatorID\_total*: The total number of units (including those with missing data)
- *IndicatorID\_responserate*: The response rate (or completeness rate, eg if alternative data sources have also been used) for the indicator, for that geographic region (calculated as  $\text{total\_stated} / \text{total} \times 100\%$ )
- *IndicatorID\_lower*: The lower logical bound for the percentage, which gives the lowest possible value for the percentage taking into account the missing data; it is calculated as  $(\text{count} / \text{total})$
- *IndicatorID\_upper*: The upper logical bound for the percentage, which gives the highest possible value for the percentage taking into account the missing data; it is calculated as  $(\text{count} + \text{unknown} / \text{total})$

Counts have been randomly rounded to base 3 by Stats NZ, and as a result, individual figures may not always sum to stated totals.

In the tables, a blank cell denotes that the cell is suppressed due to small numbers or is not available. Percentages were suppressed if counts are less than 5, or the population denominator is less than 30.

For ethnicity indicators, total response ethnic groups have been used. This means that counts will add to more than 100%, as people are included in all ethnic groups that they identify with.

Some indicators are only available at certain geographies.

Most Census data were sourced from the Aotearoa Data Explorer tables for the 2023 Census. These datasets have data for the 2023 Census and previous two Censuses as well (ie data for 2013, 2018, 2023).

## References

Atkinson J, Salmond C, Crampton P, Viggers H, and Lacey K (2024). *NZDep2023 Index of Socioeconomic Deprivation: Research Report, 31 October 2024*. Wellington: University of Otago. URL: [https://www.otago.ac.nz/\\_data/assets/pdf\\_file/0026/593135/NZDep2023-Research-Report-31-October-2024.pdf](https://www.otago.ac.nz/_data/assets/pdf_file/0026/593135/NZDep2023-Research-Report-31-October-2024.pdf)

DIA. 2022. *Local Authority Election Statistics 2022* [data tables]. Wellington: Department of Internal Affairs. URL: [https://www.dia.govt.nz/diawebsite.nsf/wpg\\_URL/Services-Local-Elections-Local-Authority-Election-Statistics-2022](https://www.dia.govt.nz/diawebsite.nsf/wpg_URL/Services-Local-Elections-Local-Authority-Election-Statistics-2022)

Mason K, Lindberg K, Haenfling C, Schori A, Marsters H, Read D, Borman B. 2021. Social vulnerability indicators for flooding in Aotearoa New Zealand. *International Journal of Environmental Research and Public Health*. 18(8):3952. <https://doi.org/10.3390/ijerph18083952>

Ministry of Health. 2019. *Household Food Insecurity Among Children in New Zealand*. Wellington: Ministry of Health. URL: <https://www.health.govt.nz/system/files/documents/publications/household-food-insecurity-among-children-new-zealand-health-survey-jun19.pdf>

Statistics New Zealand. 2012. *How prepared are New Zealanders for a natural disaster?* Wellington: Statistics New Zealand. URL: <https://www.stats.govt.nz/assets/Uploads/Retirement-of-archive-website-project-files/Reports/How-prepared-are-New-Zealanders-for-a-natural-disaster/how-prepared-nzers-natural-disaster.pdf>

Stats NZ. 2025. *New Zealand index of socioeconomic deprivation, birthplace, ethnicity, age, and gender for the census usually resident population count, (RC, TALB, Health), 2023 Census* [data table]. Available on Aotearoa Data Explore. See: <https://www.stats.govt.nz/2023-census/find-topic-tables-from-the-latest-2023-census-releases/#NZ-dep>