



# (Statistics NZ, 2019)

# 2018 Census population and dwelling counts

23 September 2019, 11:00am

2018 Census population and dwelling counts provides counts of people (by age, sex, and ethnicity) and dwellings for New Zealand and geographic areas.

**5 March 2020:** The estimates of the dwelling count for the Marlborough region are now available in Correction to Marlborough Dwelling Count - 2018 Census - DataInfo+ (http://datainfoplus.stats.govt.nz/ltem/nz.govt.stats/b09ae9c0-de19-4418-952bc9e4cbf7e1a2). We have also updated footnotes in tables 12-17 (available in the Excel file under 'Download data') recommending you use the estimates in DataInfo+ rather than the official 2018 Census counts for Marlborough Sounds East and Marlborough Sounds West.

Previous corrections (information-releases/2018-census-population-and-dwellingcounts#corrections)

# Download data

2018 Census population and dwelling counts – amended 5-3-2020

(/assets/Uploads/2018-Census-population-and-dwelling-co population-and-dwelling-counts-amended-5-3-2020.xlsx)

Microsoft Excel Open XML Spreadsheet, 169 KB

Got a spare 5 minutes to help us improve our website?

### I'll do it

(https://1qn16bb2.optimalworkshop.co satisfaction-survey-0-0-1-0-0-0-0-0-0-0-0-0-0?

tag=intercept&utm\_medium=intercept

No thanks (javascript:void(0))

# Key facts

New Zealand's 34th Census of Population and Dwellings w

2018 Census data will be used to update population estimated

(information-releases/2018-census-population-and-dwelling-counts#update).



#### Results of the 2018 Census showed:

- The 2018 Census usually resident population count was 4,699,755 up 457,707 from the 2013 Census (4,242,048).
- On average, the population grew by about 2.1 percent a year since the 2013 Census significantly higher than the annual average growth between 2006 and 2013 (0.7 percent). The higher growth rate is consistent with higher net migration (259,000 in the five years ended 30 June 2018 compared with 59,000 in the seven years ended 30 June 2013).
- There were 30 children aged 0-14 years for every 100 adults aged 15-64 years similar to the 2013 Census (31 per 100).
- There were 23 people aged 65 years and over (65+) for every 100 adults aged 15–64 years similar to the 2013 Census (22 per 100).
- Among children (under 15 years), males outnumbered females, with about 105 males for every 100 females but the ratio declined with age – from an average of 104 males to 100 females in the 15–29-year age group, to 95 males to 100 females at ages 30–64 years, and 87 males to 100 females at age 65+.
- New Zealand had 1.855.962 total (occupied and unoccupied) private dwellings, 108,558 more than in 2013.
- 10.3 percent of private dwellings were unoccupied.

Historical census data shows that New Zealand's population reached 1 million by 1911, surpassed 2 million by 1956, 3 million by 1976, and 4 million by 2006. The 2018 Census usually resident population count of 4,699,755 and relatively high net migration suggests New Zealand's population will reach 5 million in the near future.

## Census night and usually resident populations, 1858–2018 Censuses

Got a spare 5 minutes to help us improve our website?

I'll do it

(https://lqn16bb2.optimalworkshop.co satisfaction-survey-0-0-1-0-0-0-0-0-0-0-0-0?

tag=intercept&utm\_medium=intercept

ē	Census date	Census night population count	Census usually res	ident population count	
	1858-12-24	115,461	NaN		
	1874-03-01	344,985	NaN		
	1878-03-01	458,007	NaN		
	1881-04-03	534,030	NaN		
	1886-03-28	620,451	NaN		
	1891-04-05	668,652	NaN		
****	1896-04-12	743,214	NaN		
and a	1901-03-31	815,862	NaN		
	1906-04-29	936,309	NaN		
	1911-04-02	1,058,313	NaN		
	1916-10-15	1,149,225	NaN		
	1921-04-17	1,271,667	NaN		
	1926-04-20	1,408,140	NaN		
	1936-03-24	1,573,812	NaN		
	1945-09-25	1,702,299	NaN		
-	1951-04-17	1,939,473	NaN		
	1956-04-17	2,174,061	NaN		
	1961-04-18	2,414,985	NaN		
	1966-03-22	2,676,918	NaN		
	1971-03-23	2,862,630	NaN		
	1976-03-23	3,129,384	NaN	Got a spare 5 minutes to help us	
2000 2000	1981-03-24	3,175,737	3,143,307	improve our website?	
	1986-03-04	3,307,083	3,263,283	<u>l'II do it</u>	
	1991-03-05	3,434,949	3,373,926	(https://lqn16bb2.optimalworkshop.co	
	1996-03-05	3,681,546	3,618,303	satisfaction-survey-0-0-1-0-0-0- 0-0-0-0-0-0-0?	
	2001-03-06	3,820,749	3,737,277	tag=intercept&utm_medium=intercept  No thanks (javascript:void(0))	
	2006-03-07	4,143,282	4,027,947		
	2013-03-05	4,353,198	4,242,048		
				g .	

Census date	Census night population count	Census usually resident population count
2018-03-06	4,793,358	4,699,755

# Regional council areas

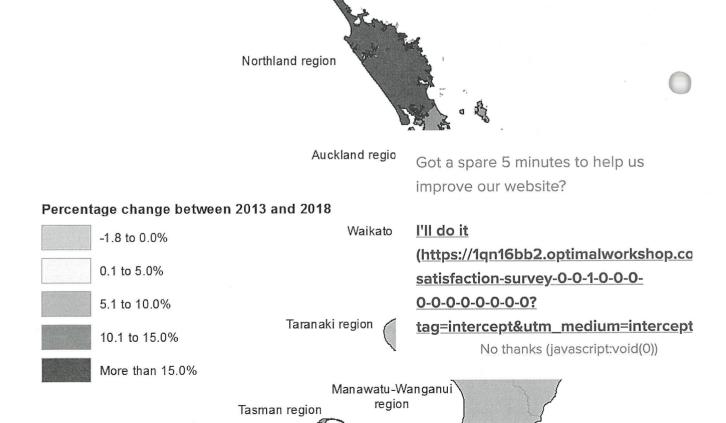
Changes across regional council areas between the 2013 and 2018 Censuses showed:

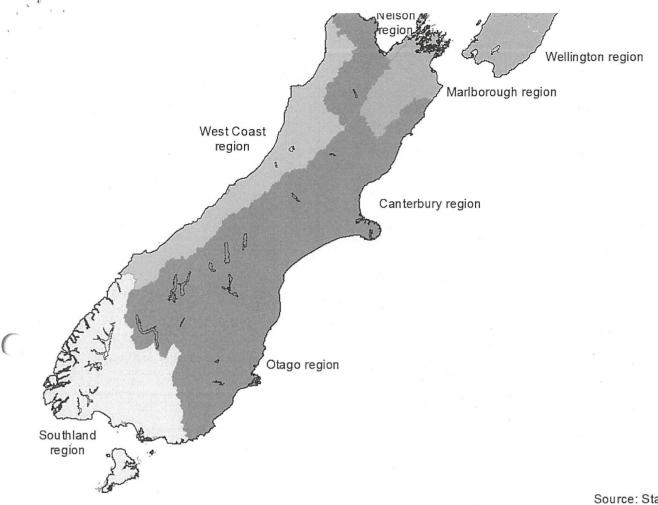
- Census usually resident population counts increased in all regional council areas except in the West Coast region, which had a small decline of 573 people (down 1.8 percent).
- Three regions had an annual average population growth above the national average of 2.1 percent: Northland (3.4 percent), Bay of Plenty (2.9 percent), and Waikato (2.6 percent).

Occupied private dwellings increased by 26,745 in the Auckland region – an annual average growth rate of 1.1 percent.

See 2018 Census map gallery (http://statsnz.maps.arcgis.com/apps/MinimalGallery/index.html? appid=41cef103bf0c4cd88eee590c06dc7805) to find out about population and dwellings in your area.

## Percentage change in the census usually resident population count between 2013 and 2018 by regional council area





Source: Stats NZ

Text alternative for map, Percentage change in the census usually resident population count between 2013 and 2018 by regional council area (http://www.stats.govt.nz/informationreleases/2018-census-population-and-dwelling-counts#text-1)

# Percentage change in the number of occupied private dwellings between 2013 Census and 2018 Census by regional council area



Auckland regio

Got a spare 5 minutes to help us improve our website?

I'll do it

(https://lqn16bb2.optimalworkshop.co satisfaction-survey-0-0-1-0-0-0-

0-0-0-0-0-0-0?

tag=intercept&utm\_medium=intercept

No thanks (javascript:void(0))

Percentage change between 2013 and 2018



1.3 to 3.0%





Text alternative for map, Percentage change in the number 2013 Census and 2018 Census by regional council area (htt releases/2018-census-population-and-dwelling-counts#text

## Cities and districts

For our cities and districts, 2018 Census results showed:

Got a spare 5 minutes to help us improve our website?

#### I'll do it

(https://lqn16bb2.optimalworkshop.co satisfaction-survey-0-0-1-0-0-0-0-0-0-0-0-0?

tag=intercept&utm\_medium=intercept

No thanks (javascript:void(0))

Auckland is home to one-third of New Zealand's population, ...... population count topping 1.5 million (1,571,718).

- Christchurch city's population (369,006) bounced back after experiencing a decrease following the 2011 earthquakes – up from 341,469 in 2013 and 348,456 in 2006.
- Queenstown-Lakes (6.8 percent) and Selwyn districts (6.3 percent) had the highest annual average population growth rates between the 2013 and 2018 Censuses.
- The youngest median age (32.2 years) of the cities and districts was recorded in Hamilton city, home of Waikato University.
- Thames-Coromandel district had the oldest median age (53.6 years).
- Selwyn district's annual average increase of 6.4 percent in private dwellings was the highest growth rate for any territorial authority (city or district council).
- Thames-Coromandel had the highest proportion of unoccupied private dwellings (49.4) percent). Within the Thames-Coromandel district, the highest proportion of unoccupied private dwellings (many of which could be holiday homes) were in popular holiday destinations such as Cooks Beach-Ferry Landing (79.0 percent), Pauanui (77.0 percent), and Mercury Bay North (73.7 percent). In contrast, areas around Thames have high occupancy rates (around 90 percent).

# **Ethnicity**

Each person in the 2018 Census dataset has at least one ethnicity. Most people (84.1 percent) stated their ethnicities on the 2018 Census individual form. For those who did not do so, we used 2013 Census data (8.3 percent), admin data (6.3 percent), and imputation (1.2 percent) to fill in all missing values. This has improved the quality and completeness of the 2018 Census ethnicity data. However, be cautious when comparing 2018 Census data with earlier censuses, as the earlier censuses include missing values (for example, not stated, or unidentifiable ethnicities).

As with previous censuses, people can and do have more than one ethnicity. For this reason, counts sum to more than the total population and proportions sum to more than 100 percent.

For broad ethnic groups, 2018 Census results showed:

- The European ethnic group was still the largest by a significant to the street of th identified with at least one European ethnicity, but they population (70.2 percent) than in 2013 (74.0 percent).
- The next largest ethnic group, Māori (775,836), represe from 14.9 percent in 2013.
- The Asian ethnic group (707,598) remained the third la percent of the population, up from 11.8 percent in 2013.
- The Pacific population (381,642) also increased their pr percent in 2018, up from 7.4 percent in 2013.
- Auckland was home to one-third of New Zealand's population and:

Got a spare 5 minutes to help us improve our website?

I'll do it

(https://lgn16bb2.optimalworkshop.co satisfaction-survey-0-0-1-0-0-0-0-0-0-0-0-0-0?

tag=intercept&utm\_medium=intercept

- close to two-thirds of the Pacific and Asian ethnic group populations (63.9 and 62.6 percent, respectively) usually live there
- one-half (51.0 percent) of the MELAA (Middle Eastern/Latin American/African) ethnic group usually live there.
- The Pacific and Māori ethnic group populations were much younger than the European ethnic group population. The median age was 23.4 years for the Pacific ethnic group, 25.4 years for Māori, 31.3 years for Asian, and 41.4 years for European.

Percentages are calculated by dividing the number in each ethnic group by the 'total people stated'.

European, Māori, Pacific, Asian, MELAA, and Other ethnic groups are broad groupings of ethnicities.

2018 Census totals by topics – national highlights (information-releases/2018-census-totals-bytopic-national-highlights) has national counts of ethnicities at a more detailed level.

## About the 2018 Census dataset

We combined data from the census forms with administrative data to create the 2018 Census dataset, which meets Stats NZ's quality criteria for population structure information.

We added real data about real people to the dataset where we were confident they should be counted, but they hadn't completed a census form. We also used data from the 2013 Census and administrative sources, and statistical imputation methods to fill in some missing characteristics of people.

The independent External Data Quality Panel has endorsed the statistical approaches used by Stats NZ to mitigate non-response.

We matched 2018 Census forms data with a file of admin d of the New Zealand population. This enabled us to add pec census forms into the census dataset. Data for 88.8 percen came from a 2018 Census form and 11.2 percent came from

Excluding areas with very small populations, the percentag population count coming from census forms ranged from 7 percent for Selwyn district.

Got a spare 5 minutes to help us improve our website?

I'll do it

(https://lqn16bb2.optimalworkshop.co satisfaction-survey-0-0-1-0-0-0-0-0-0-0-0-0?

tag=intercept&utm\_medium=intercept

No thanks (javascript:void(0))

We also used 2013 Census data to add information about people's characteristics that are less likely to change over time – for example, birthplace. Where this data was not available, we used admin sources such as birth registrations, education, or tax data for some variables. We then used imputation to fill in some missing census characteristics.

Data sources vary across variables and categories within variables. Data about age and sex is largely based on real data about real people with very low levels of imputation.

Here are examples of what we did for the age and sex variables.

- For age groups:
  - 88.6 percent of the data was sourced from a 2018 Census form and 11.2 percent from admin data; we imputed 0.3 percent
  - ∘ the proportion of admin data sources is highest among younger adults 25–29 years (18.3 percent) and 20-24 years (16.7 percent).
- For sex:
  - o 88.7 percent of the sex count was sourced from a 2018 Census form, 11.2 percent from admin data, and only 0.1 percent from imputation
  - where sex was sourced from a 2018 Census form, 51.4 percent were female and 48.6 percent were male.

2018 Census: How we combined administrative data and census forms data to create the census dataset (methods/2018-census-how-we-combined-administrative-data-and-census-forms-data-tocreate-the-census-dataset) outlines our approach for adding admin data records to the 2018 Census dataset.

Overview of statistical methods for adding admin records to the 2018 Census dataset methods/overview-of-statistical-methods-for-adding-admin-records-to-the-2018-census-dataset) provides an overview of the statistical methods used to determine high-quality administrative records to include in the 2018 Census dataset.

# 2018 Census data will be used population estimates and project

Population estimates and projections currently available are resident population count. Population estimates incorporat available by March 2020. A key input into these new popul coverage (net census undercount) from the 2018 post-enur be available at the same time, in early 2020.

Once the new 'estimated resident population' based on the population statistics including demographic projections and me capies can be updated. we will

progressively release New Zealand projections from mid-2020.

Got a spare 5 minutes to help us improve our website?

I'll do it

(https://lqn16bb2.optimalworkshop.co satisfaction-survey-0-0-1-0-0-0-0-0-0-0-0-0-0?

tag=intercept&utm\_medium=intercept

The estimated resident population is based on the census usually resident population count with adjustments for:

- residents missed or counted more than once by the census (net census undercount)
- residents temporarily overseas on census night
- births, deaths, and net migration between census night and the reference period
- reconciliation with demographic estimates at the youngest ages.

Expected updates for population statistics 2019–20 (news/expected-updates-for-population-statistics-2019-20) includes more information about population measures.

()

# Text alternative for map, Percentage change in the census usually resident population count between 2013 and 2018 by regional council area

Map of New Zealand shows the percentage change in the census usually resident population count for the regional council areas between the 2013 and 2018 Censuses. Change for Northland was more than 15.0%; Auckland 10.1 to 15.0%, Waikato 10.1 to 15.0%, Bay of Plenty more than 15%; Gisborne 5.1 to 10.0%, Hawke's Bay 5.1 to 10.0%; Taranaki 5.1 to 10.0%; Manawatu-Wanganui 5.1 to 10.0%; Wellington 5.1 to 10.0%; Tasman 10.1 to 15.0%; Nelson 5.1 to 10.0%; Marlborough 5.1 to 10.0%; West Coast -1.8 to 0.0%; Canterbury 10.1 to 15.0%; Otago 10.1 to 15.0%; Southland 0.1 to 5.0%.

# () Text alternative for map, Percentage change in the number of occupied private dwellings between 2013 Census and 2018 Census by regional council area

Map of New Zealand shows the percentage change in the number of occupied private dwellings for the regional council areas between the 2013 and 2018 Censuses. Change for Northland was 6.1 to 9.0%; Auckland 3.1 to 6.0%, Waikato 6.1 to 9.0%, Bay of Plenty 6.1 to 9.0%; Gisborne 1.3 to 3.0%,

Hawke's Bay 3.1 to 6.0%; Taranaki 3.1 to 6.0%; Manawatu-W. 6.0%; Tasman 6.1 to 9.0%; Nelson 6.1 to 9.0%; Marlborough Canterbury more than 9.0%; Otago 6.1 to 9.0%; Southland 3 ()

Got a spare 5 minutes to help us improve our website?

## More data

2018 Census totals by topic – national highlights (updated) totals-by-topic-national-highlights-updated) provide national

#### I'll do it

(https://1qn16bb2.optimalworkshop.co satisfaction-survey-0-0-1-0-0-0-0-0-0-0-0-0-0?

<u>tag=intercept&utm\_medium=intercept</u>

No thanks (javascript:void(0))

See <u>2018 Census map gallery</u> (http://statsnz.maps.arcgis.com/apps/MinimalGallery/index.html? appid=41cef103bf0c4cd88eee590c06dc7805) for interactive maps.

### Access data in NZ.Stat

Use NZ.Stat (http://nzdotstat.stats.govt.nz/wbos/index.aspx) to view and download data for counts of usually resident population, census night population, and dwellings.

Age and sex by ethnic group, for census usually resident population counts, 2006, 2013, and 2018 Censuses (http://nzdotstat.stats.govt.nz/wbos/Index.aspx?DataSetCode=TABLECODE8277) statistics on age and sex by ethnic group; regional council, territorial authority, and district health board areas, and statistical area 2 geographies.

Age and sex by ethnic group, for census night population counts, 2006, 2013, and 2018 Censuses (http://nzdotstat.stats.govt.nz/wbos/Index.aspx?DataSetCode=TABLECODE8317) - statistics on age and sex by ethnic group; regional council, territorial authority, and district health board areas, and statistical area 2 geographies.

Occupied dwellings, unoccupied dwellings, and dwellings under construction, for private and nonprivate dwellings, 2006, 2013, and 2018 Censuses (http://nzdotstat.stats.govt.nz/wbos/Index.aspx? DataSetCode=TABLECODE8278) – statistics on dwellings by regional council, territorial authority, and district health board areas, and statistical area 2 geographies.

## Definitions and metadata

2018 Census – DataInfo+ (http://datainfoplus.stats.govt.nz/ltem/nz.govt.stats/ca28210f-3fd6-415ca162-ecc07b4a28b0) provides information about methods, and related metadata.

018 Census information by variable - DataInfo+

(http://datainfoplus.stats.govt.nz/ltem/nz.govt.stats/ca28210f-3fd6-415c-a162ecc07b4a28b0#/nz.govt.stats/2ae40a5d-64c8-4704-9829 about the variables and their quality.

Got a spare 5 minutes to help us improve our website?

# () Previous corrections

16 October 2019: The 2018 Census counted fewer dw than existed at census time. This is mainly in the Marlb coastal marine. Stats NZ apologises for this undercour causing to users of the data.

#### I'll do it

(https://lqn16bb2.optimalworkshop.co satisfaction-survey-0-0-1-0-0-0-0-0-0-0-0-0?

tag=intercept&utm\_medium=intercept

The identification of dwellings in the Marlborough Sounds was affected by ex-tropical cyclone Gita, which hit New Zealand in February 2018, when field staff were checking addresses and delivering 2018 Census materials. If you intend to use Marlborough dwelling counts, please contact census.external.relations@stats.govt.nz (mailto:census.external.relations@stats.govt.nz? subject=Marlborough%20region%20dwellings%20data) for more information.

3 October 2019: NZ.Stat tables now available, see More data (information-releases/2018census-population-and-dwelling-counts#moredata).

# Media enquiries

James Weir

021 285 9191

(tel:+64212859191) communications@stats.govt.nz (mailto:communications@stats.govt.nz? subject=2018%20Census%20population%20and%20dwelling%20counts%20%E2%80%93%20media

# Technical enquiries

Anne Howard

04 931 4600

(tel:+6449314600) info@stats.govt.nz (mailto:info@stats.govt.nz?

subject=2018%20Census%20population%20and%20dwelling%20counts%20%E2%80%93%20tecl

ISBN 978-1-98-858357-0

Got a spare 5 minutes to help us improve our website?

I'll do it

(https://lqn16bb2.optimalworkshop.co satisfaction-survey-0-0-1-0-0-0-

0-0-0-0-0-0-0?

tag=intercept&utm\_medium=intercept

No thanks (javascript:void(0))

Related pages

New Zealand as a village of 100 people: Our population (/infogra people-2018-census-data)

23 September 2019

2018 Census population and dwelling counts population-and-dwelling-counts-nz-stat-tables)

NZ.Stat tables (/information-releases/2018-census-

03 October 2019

Selected ethnicity and Māori descent topics by seographic area: 2018 Census - NZ.Stat tables (/information-releases/selected-ethnicity-and-magori-descent-topics-by-geographic-area-2018-census-nzstat-tables)

16 December 2019

Regions around Auckland lead population growth (/news/regions-around-auckland-lead-populationgrowth)

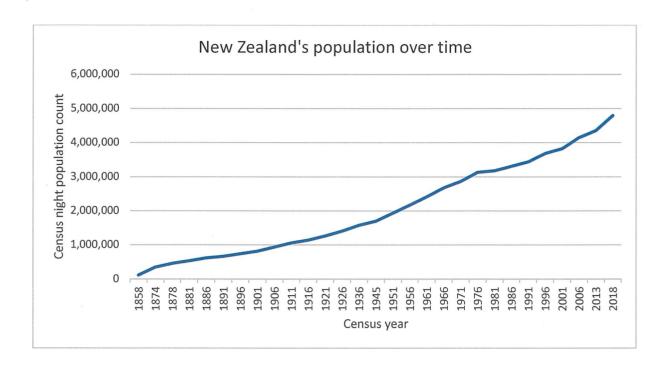
23 September 2019

New Zealand's population reflects growing diversity (/news/new-zealands-population-reflects-growingdiversity)

September 2019

Got a spare 5 minutes to help us improve our website?

I'll do it (<u>https://1qn16bb2.optimalworkshop.co</u> satisfaction-survey-0-0-1-0-0-0-0-0-0-0-0-0-0? tag=intercept&utm\_medium=intercept



Adapted from Statistics NZ, 2019

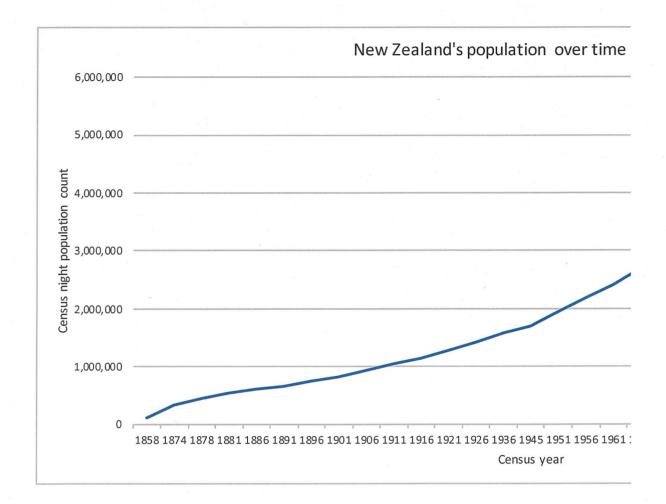
Used for the	book	
Census year	Census night population count	Census date Cens

Census year	Census night population count	Census date	Census night	Census usua
1858	115,461	1858-12-24	115,461	NaN
1874	344,985	1874-03-01	344,985	NaN
1878	458,007	1878-03-01	458,007	NaN
1881	534,030	1881-04-03	534,030	NaN
1886	620,451	1886-03-28	620,451	NaN
1891	668,652	1891-04-05	668,652	NaN
1896	743,214	1896-04-12	743,214	NaN
1901	815,862	31/03/01	815,862	NaN
1906	936,309	29/04/06	936,309	NaN
1911	1,058,313	2/04/11	1,058,313	NaN
1916	1,149,225	15/10/16	1,149,225	NaN
1921	1,271,667	17/04/21	1,271,667	NaN
1926	1,408,140	20/04/26	1,408,140	NaN
1936	1,573,812	24/03/36	1,573,812	NaN
1945	1,702,299	25/09/45	1,702,299	NaN
1951	1,939,473	17/04/51	1,939,473	NaN
1956	2,174,061	17/04/56	2,174,061	NaN
1961	2,414,985	18/04/61	2,414,985	NaN
1966	2,676,918	22/03/66	2,676,918	NaN
1971	2,862,630	23/03/71	2,862,630	NaN
1976	3,129,384	23/03/76	3,129,384	NaN
1981	3,175,737	24/03/81	3,175,737	3,143,307
1986	3,307,083	4/03/86	3,307,083	3,263,283
1991	3,434,949	5/03/91	3,434,949	3,373,926
1996	3,681,546	5/03/96	3,681,546	3,618,303
2001	3,820,749	6/03/01	3,820,749	3,737,277
2006	4,143,282	7/03/06	4,143,282	4,027,947
2013	4,353,198	5/03/13	4,353,198	4,242,048
2018	4,793,358	6/03/18	4,793,358	4,699,755
	59,307,780		59,307,780	

Adapted from Statistics NZ, 2019

https://www.stats.govt.nz/information-releases/2018-census-population-and-dwelling-cour

#### Ily resident population count



<u>nts#:~:text=New%20Zealand's%2034th%20Census%20of,the%202013%20Census%20(4%2C24</u>