



Nelson City Council
te kaunihera o whakatū

Nelson's Ageing Population

A background paper on Nelson's demographic trends and on characteristics of the population aged 65 years and over, to better understand the implications for Nelson of an ageing population.

February 2017

Nelson's population is now over 50,000 and there are estimated to be more people aged over 65 than there are children aged under 15. Nelson's population is ageing and the median age is projected to increase from 42 years in 2013 to 51 in 2043.

Between 2013 and 2043, the number of Nelson residents aged 65 and over is projected to more than double and will make up a third of the total Nelson population by 2043, compared with 17 percent in 2013.

The purpose of this research is to gain a better understanding of the components and characteristics of Nelson's older population. This can be used to assist with Council planning, policy making and as background information for Asset and Activity Management Plans.

The report looks at demographic trends to understand the drivers of an ageing population. The report provides information on the current state and trends for the older population in Nelson in terms of housing, employment, income, health, transport and social connection.

Throughout the report, 'older people' and 'older residents' refers to residents aged 65 years and older.

It is important to remember that "older people are not homogenous in expectations, needs and behaviours" and "there is a need to avoid generalisation about what can be determined from demography about older people's needs solely on the basis on the present generation"¹.

¹ Organisation for Economic Co-operation and Development (2002) *Ageing, Housing and Urban Development*

Contents

Key Findings	3
Population Overview	4
Components of Population Change	6
Natural increase/decline.....	6
Net migration.....	7
High growth scenario	9
Labour market demographics.....	10
Housing.....	12
Current housing	12
Residential care.....	13
Future Housing Demand	14
Financial wellbeing.....	15
Income levels	15
Sources of income	16
Material and Financial Wellbeing.....	17
Health.....	18
Disability Levels	19
Dementia	20
Nutrition.....	21
Physical Activity	21
Social Connection	23
Volunteering	24
Education.....	24
Transport	24
Private Transport.....	25
Public Transport	25
Appendix 1: Demographic indicators, territorial authority ranking	26
References	28

Key Findings

- The number of Nelson residents aged 65 and over is projected to more than double between 2013 and 2043 and will then make up a third of the total Nelson population, compared with 17 percent in 2013.
- Over that time, most of Nelson's population growth will be in residents aged 65 years or older, while the number of children is projected to decline.
- Despite the likelihood of more deaths than births by 2033, positive net migration (more people moving here than leaving) should mean that Nelson's population continues to experience positive growth, albeit at a slower rate.
- Even under a high growth scenario, most of the Nelson's population growth would still be in the number of older people, and growth would still slow down over time.
- Although older people are becoming more active in the labour market, Nelson's workforce is ageing and is expected to face sustained labour shortages.
- The majority of Nelson's older people live in one- or two-person households and own their homes, although home ownership rates are expected to be lower for older people in the future.
- Older people generally prefer to age in place and prefer smaller properties than younger age groups.
- Despite lower incomes than younger age groups, older people generally report higher net worth and higher material and financial wellbeing.
- Despite trends for disability rates to increase with age and physical activity rates to decline, older people in the upper South Island generally report good health and good nutrition.
- The majority of older people report rarely feeling lonely and are satisfied with the amount of contact with family and friends.
- Nelson's older residents have relatively high education levels
- Despite an increasing majority of older people with access to a motor vehicle, there is an increasing trend in public transport use.

Population Overview²

By 2028, over a quarter of Nelson's population will be 65 years or older.
By 2043, older people will contribute a third of the population.

Under Statistics New Zealand's medium series assumptions, Nelson's total population is expected to grow by 6,600 residents between 2013 and 2028 and by 2,700 between 2028 and 2043. Population growth is expected to slow down over time, largely due to the ageing of the population.

The number of older people in Nelson is projected to increase from 8,400 in 2013 (17% of the population), to 14,700 in 2028 (27%), and will account for a third of the population by 2043.

Increasing life expectancy and the ageing of the baby boomer cohort are driving a numerical increase in the number of older people.

Between 2013 and 2028, most of Nelson's population growth is in the 65-84 years age groups. Between 2028 and 2043, the greatest growth is projected to be in the 75 years and over age groups. The number of people aged 75 years and over will triple over the next three decades.

Table 1: Population projections by age groups (medium series), Nelson, 2013-2043

Measure	2013	Change 2013-2028	2028	Change 2028-2043	2043
Median age (years)	42.2		46.9		50.5
Total population	48,700	+6,600	55,300	+2,700	58,000
Under 15 years	9,200	-400	8,800	-400	8,400
15-39 years	13,600	+800	14,400	-300	14,100
40-64 years	17,500	-100	17,400	-900	16,500
65 years and over	8,400	+6,300	14,700	+4,300	19,000
65-74 years	4,600	+2,900	7,500	+100	7,600
75-84 years	2,600	+2,600	5,200	+2,100	7,300
85 years and over	1,200	+800	2,000	+2,100	4,100

The proportion of the population aged under 15 years will decrease from 19% in 2013 to 14% in 2043. An increase in the proportion of the population that is older, and a decrease in the proportion who are younger, known as 'structural ageing', is partly due to decreasing fertility rates, the average number of births per woman, and partly due to increasing life expectancy. Structural ageing is also contributed to by ageing-in-place of older cohorts, net migration gains of older people, and net migration loss of younger people.

² Unless otherwise specified, population data is sourced from Statistics New Zealand. [Population projections](#) are based on the medium series, published by Statistics New Zealand on 22 February 2017, which use Census demographics and historic trends as a base (2013-based). Statistics New Zealand advised at the time that the medium projection is considered suitable for assessing future population change. Projections are not predictions and should be used as an indication of the overall trend, rather than as exact forecasts.

Figure 1: Population projections by age groups (medium series), Nelson, 2013-2043

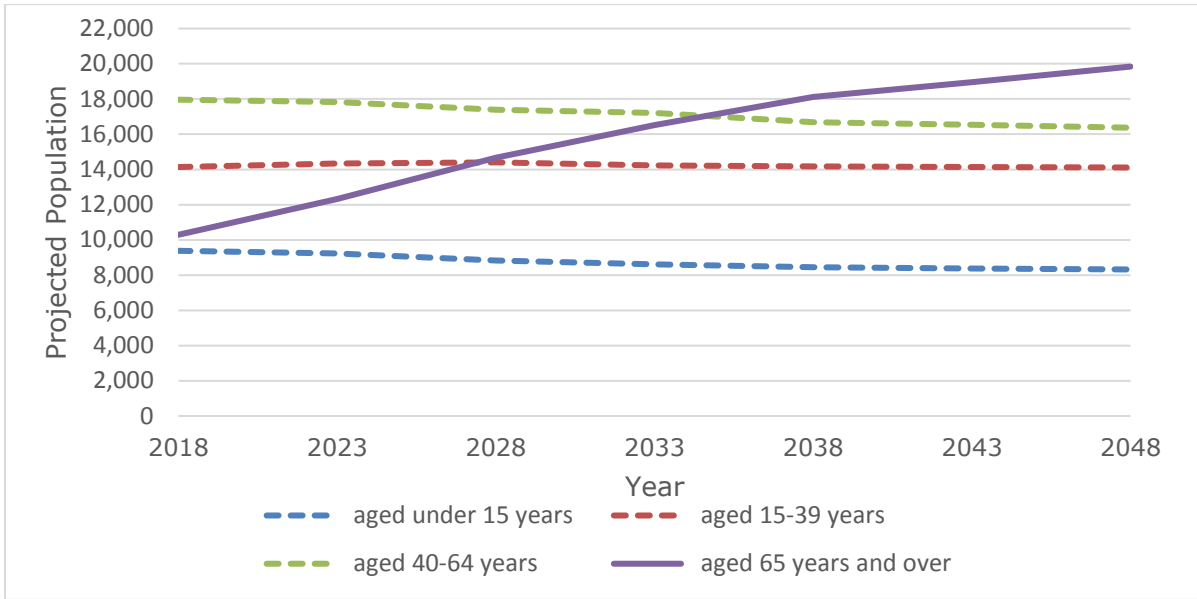
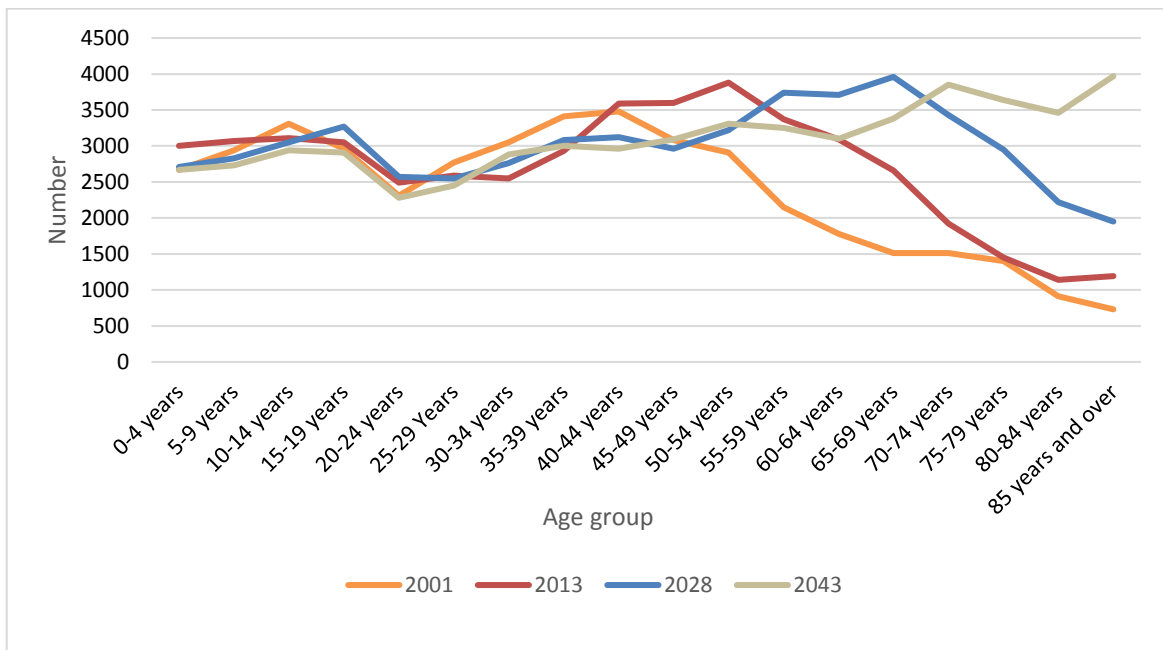


Figure 2: Population estimates and projections by 5-year age groups (medium series), Nelson, 2001-2043



Comparing all 67 territorial authorities in New Zealand, the proportion of each authority’s population aged over 65 in 2028 is projected to range from 15% in Wellington City to 38% in Thames-Coromandel. Nelson’s projected proportion of 27% is slightly above the median. Due to Nelson’s older population growing at a relatively fast rate, by 2043 Nelson will be in the upper quartile of territorial authorities for the proportion of the population aged over 65.

Components of Population Change

The ageing of Nelson's population, and the slowing population growth, is driven by:

- increasing life expectancy
- ageing of the baby boomer cohort
- decreasing fertility rates
- net migration loss of younger age groups, particularly 20-24 year olds (leaving for study, travel or work)
- increasing net migration gains of people in older age groups (moving or returning to Nelson)

In general, population change is based on two main components:

- Natural increase/decline: the number of births minus the number of deaths
- Net migration: the number of people moving to Nelson (from overseas or from other parts of New Zealand) minus the number of people moving out of Nelson (overseas or to other parts of New Zealand)

Natural increase/decline

The medium series projections for Nelson assume that the number of deaths will increase as the number at older ages increases, while the number of births will remain relatively constant. Natural increase in Nelson's population is projected to end by 2033, and natural decline to begin, when deaths start to outnumber births.

Underlying these components is an assumption that life expectancy at birth will increase from 81 years and 84 years for males and females respectively in 2018 to 86 and 89 years in 2043. The average number of births for women (fertility rate) is assumed to decrease from 1.95 in 2018 to 1.89 in 2043.

Figure 3: Components of population change (medium series), Nelson, 2013-2043

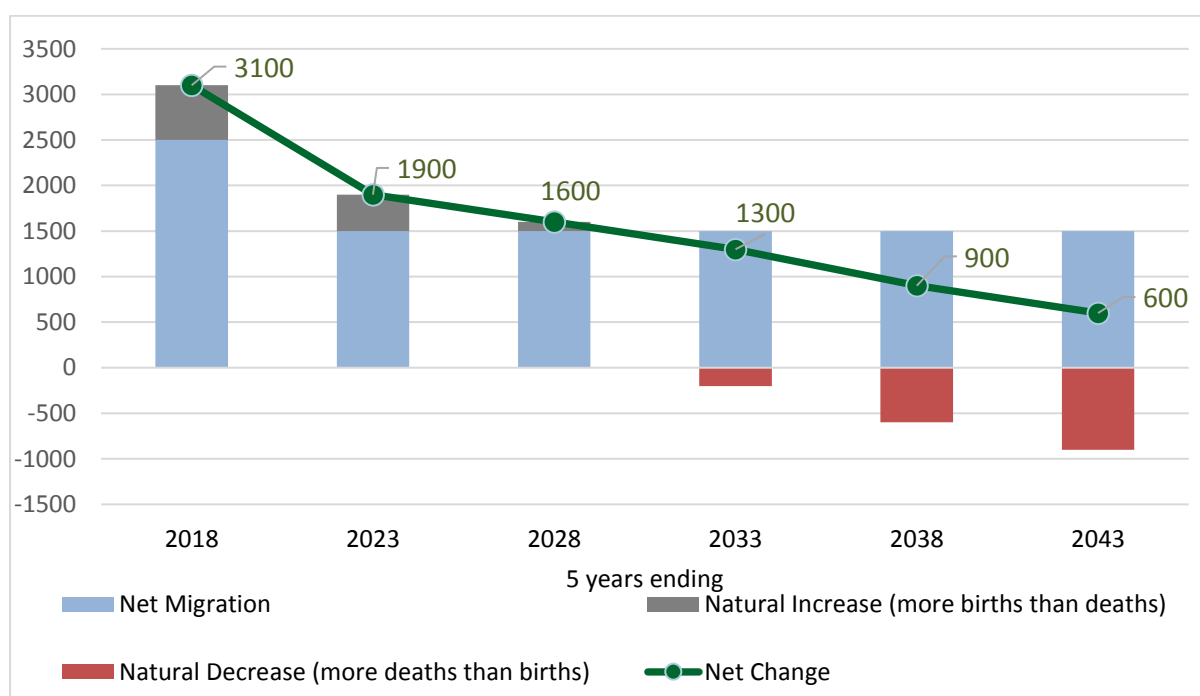


Table 2: Components of population change (medium series), Nelson, 2001-2043³

5 years ending	Net Migration	Natural Increase	Net Change	Births	Deaths
2001	761	939	1700	2665	1726
2006	574	826	1400	2673	1847
2013	2509 [*]	991	3500	2929	1938
2018	2500	600	3100	2700	2100
2023	1500	400	1900	2700	2300
2028	1500	100	1600	2600	2500
2033	1500	-200	1300	2500	2800
2038	1500	-600	900	2500	3100
2043	1500	-900	600	2500	3500

Net migration

Net migration has fluctuated in recent years but Nelson has generally had a net gain with more people moving here than have been leaving. Between 1996 and 2006, Nelson experienced a net gain in total migration within New Zealand but a net loss in overseas migration – more people left Nelson to live overseas than the number who moved here from overseas. However, between 2008 and 2013 Nelson experience both positive net internal migration and positive net overseas migration. This is was largely due to fewer people leaving Nelson to live overseas⁴.

Going forward, the medium series projections assume a net migration gain of 2500 for the five years ending 2018, in line with the most recent trend, and then assumes 1500 every five years after that.

The assumption of positive net migration means Nelson’s population is projected to keep experiencing an overall increase, albeit at a slower rate over time, despite the ageing of its population. Compared with all 67 territorial authorities, Nelson’s projected 14% population growth between 2013 and 2028 is above average. Nineteen authorities are projected to grow at a faster rate. Eight local authorities are projected to have population decline over that time. Current projections are for Tasman’s population to grow at a slightly slower rate than Nelson, at the average rate for all territorial authorities of 11 percent.

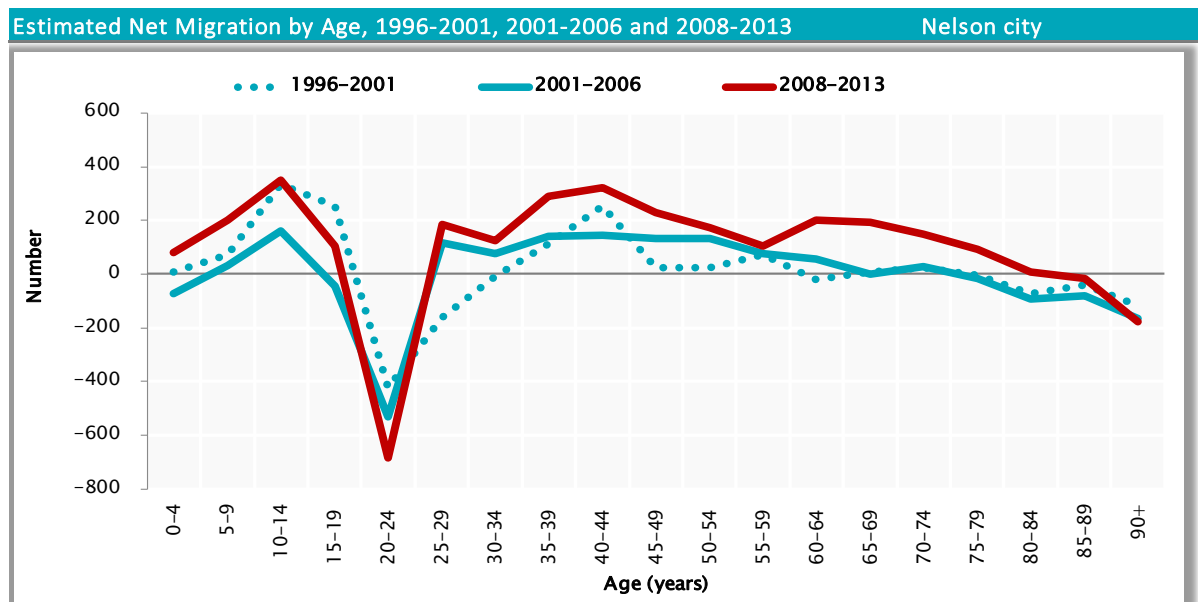
³ Data for 1996-2013 is sourced from Jackson, N.O. and Pawar, S. (2014)

⁴ Ibid

Net migration by age

Although Nelson experiences positive net migration overall, the region experiences a net loss in the 20-24 age group who tend to leave to access tertiary education, career opportunities or travel. Between 2008 and 2013, the net loss of that age group increased slightly compared with previous years and the net gain of older age groups increased.

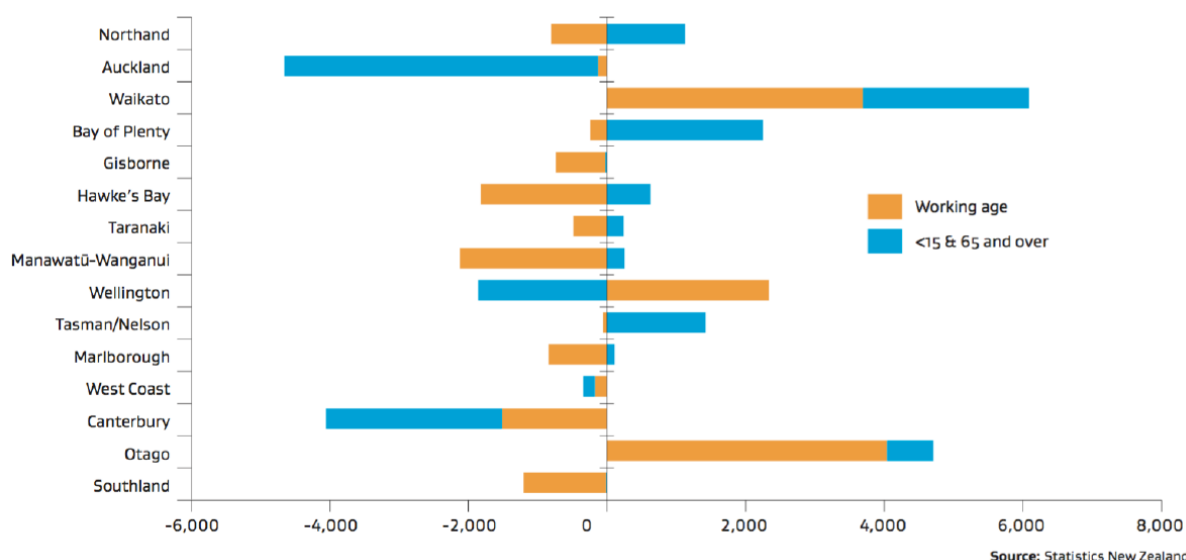
Figure 4: Estimated net migration by age, Nelson, 1996-2013



Source: Jackson & Pawar (2013)/Statistics New Zealand various sources

In terms of internal migration, and compared to other regions, Nelson and Tasman have tended to have lower migration flows of the working age population.

Figure 5: Net internal migration by age group by region, 2008-2013⁵



Source: Statistics New Zealand

According to Census 2013 data, 80 percent of older people living in Nelson in 2013 had also been living in Nelson in 2008. Two percent had been living overseas and the rest were living in other parts

⁵ Reported in 2014 Regional Economic Activity Report, Ministry of Business, Innovation and Employment

of New Zealand. Four percent had moved from Tasman and three percent had moved from Canterbury.

High growth scenario

Under a high growth scenario, most of the Nelson’s population growth would still be in the number of older people and growth would still slow down over time.

Migration flows are affected by factors which are difficult to predict, such as central government immigration policies, economic shocks, perceptions of better living conditions, war, and/or natural disasters. Statistics New Zealand produce projections based on low, medium or high growth scenarios. The high projections assume net migration of 3500 people in the five years ending 2018 and 2500 people every five years after that, and also assume higher fertility rates and life expectancy. However, confirming what demographic experts increasingly believe, the projections show that migration will merely alter the overall size of the population, rather than alter the age structure⁶.

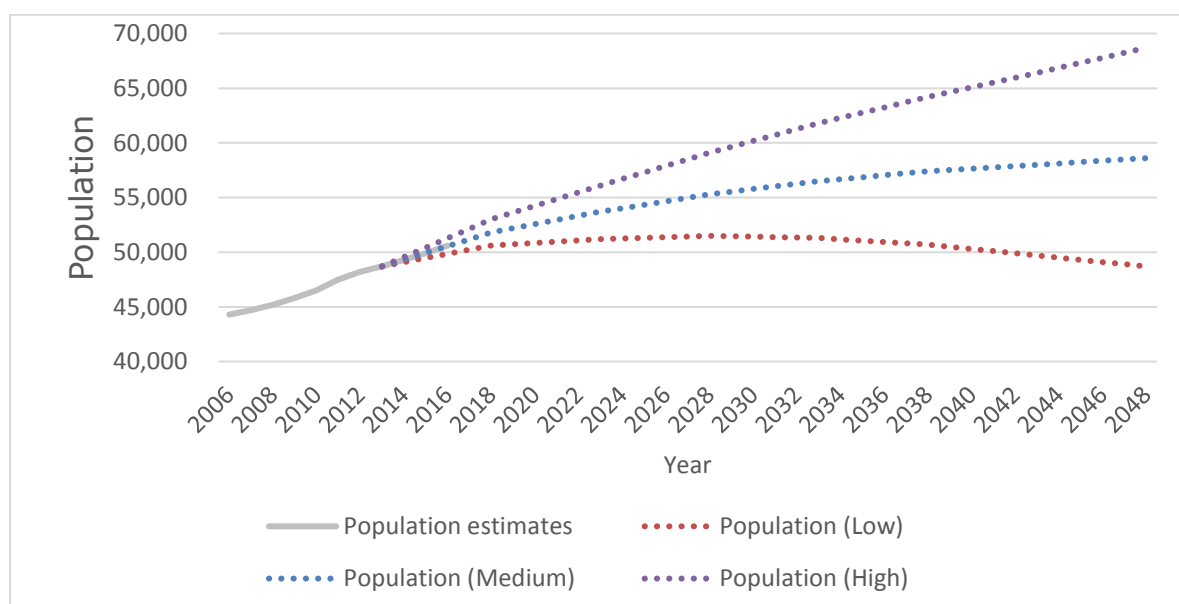
Under the high growth projections, Nelson’s population would be 66,400 in 2043, which is 8,400 higher than the medium scenario. Growth would still slow down over time and the median age would still increase at a similar rate. Most of the growth would still be in the number of older people but other age groups would see modest increases. Deaths would start to outnumber births in 2043.

Table 3: Projected population measures (medium and high series), Nelson, 2013-2043

Measure	2013	2028		2043	
		Medium	High	Medium	High
Median age (years)	42.2	46.9	46.5	50.5	49.4
Total population	48,700	55,300	59,100	58,000	66,400
65 years and over	8,400 (17%)	14,700 (27%)	15,500 (26%)	19,000 (33%)	21,200 (32%)

The following graph shows the three data series available: low, medium and high.

Figure 6: Estimated and Projected Population (low, medium and high series), Nelson, 2006-2048



⁶ Parliamentary Library Research Paper (2011)

Labour market demographics

Although older people are becoming more active in the labour market, Nelson's workforce is ageing and is expected to face sustained labour shortages.

Population projections indicate that the conventional 'working age' population (15-64 years) in Nelson will increase slightly (by 2%) between 2013 and 2028 and will then decline by 1,120 (4%) between 2028 and 2043. Work force participation by those aged 65 years and over is likely to become an increasingly important economic resource.

MBIE's Regional Economic Activity Report 2015 noted that "Nelson's ageing workforce will put pressure on the economy." The primary sector and healthcare sector both have notably older workforces. In 2013, 39% of people employed in Nelson were 50 years or older, compared with 25% of the workforce in 2001.

Table 4: Workforce percentage by age group, Nelson and New Zealand, 2001-2013⁷

Age group's contribution to total employment	Nelson			New Zealand
	2001	2006	2013	2013
50 years and over	25%	30%	39%	35%
65 years and over	2%	3%	6%	6%

In the 2013 Census, 18% of people aged 65 years and over were employed, compared with 12% in the 2006 Census. Almost half were employed full-time. Compared with other parts of New Zealand, Nelson has a relatively low level of work force participation by older people and is the sixth lowest of all 67 territorial authorities. However, at 21%, New Zealand has one of the highest participation rates of older people in the OECD, compared with 12% in Australia, 10% in the United Kingdom and 13% in Canada, due to compulsory retirement being made unlawful⁸ in New Zealand earlier than other countries.

Research by the Office for Senior Citizens (2015) suggest older New Zealanders' participation rate will increase in the future, from 19% in 2011 to 31% in 2031. The increasing participation rate combined with the increased number of older people mean the contribution of older people to the labour force is projected to increase from 5% in 2011 to 12% in 2031, as the baby boomers move into the 65-plus age group.

Applying these trends to Nelson's projected population suggests that Nelson's potential labour force could be boosted by approximately 4,300 older people in 2028.

Table 5: Potential labour force, Nelson, 2013-2043

	2013	2028	2043
Population aged 15-64 years	31,140	31,790	30,670
If maintain 20% of those aged over 65 years working	32,810	34,720	34,460
If assume 30% of those aged over 65 are working		36,190	36,360

⁷ Census data, Statistics New Zealand

⁸ Human Rights Act, 1993

Another key indicator of structural ageing is the ratio of people at labour market entry age (15-24 years) to those in age groups approaching retirement (typically 55-64 years).

Using these age groupings, Nelson's ratio of people at labour market 'entry' to 'exit' age is already below one entrant per exit (0.86) and is projected to decline to 0.73 (73 entrants per 100 exits) by 2023. The ratio will then increase slightly as a large birth cohort (born between 2002 and 2008) arrives at labour market entry age. However it is not projected to rise above 0.82 entrants per exit.

If the exit age group is expanded to 55+ years to allow for increased participation of older workers, the ratio is presently 0.37 (37 people at entry age per 100 at exit age), and this ratio will fall steadily across the projection period, to 0.27 by 2028, and to just 0.22 by 2043.

Both measures⁹ illustrate significant structural ageing for Nelson; however they also indicate the arrival of sustained labour shortages, in that even with increased participation at older ages, the number of people at entry to exit age will continue to decline.

A survey of older workers in Nelson in 2009¹⁰ found that health was the main enabling factor for remaining in work. This was mirrored by research by Treasury¹¹ into the retirement decisions of older New Zealanders which found that health status is significantly associated with the decision to work. A study¹² from the Ministry of Social Development noted that participation rates in this age group vary between genders, with 45% of 65-69 year old men participating in the labour force compared with 31% of 65-69 year old women. However, participation rates for both genders in that age group were likely to increase by 2051, to 65% for men and 55% for women.

An earlier report¹³ noted that there can be positive effects on health and wellbeing to those that work beyond the traditional retirement age, with the mix of effects depending on the individual's circumstance, the job and the workplace. Some older people's capacity to work may be affected by poor health. New Zealand research shows that health status is a key factor in determining how long people remain in the workforce¹⁴. An earlier study by the Ministry of Social Development in 2009 found that factors which would encourage older workers to stay in work included variable hours of work, more unpaid leave, work with less responsibility or physical demands, and working from home.

⁹ Entry-exit ratios supplied by Natalie Jackson, personal correspondence 6/9/2016, A1631163

¹⁰ Nelson City Council (2009) *Older Workers in Nelson: Results from a survey of the attitudes of the over 50s towards work*

¹¹ Scobie, Grant M and Enright, James (2010) [Healthy, Wealthy and Working: Retirement Decisions of Older New Zealanders.](#)

¹² Ministry of Social Development (2015)

¹³ Ministry of Social Development (2011)

¹⁴ Davey, J A (2007)

Housing

The majority of Nelson's older people live in one- or two-person households. The majority own their homes, live in separate houses, and generally have no major issues with the condition or warmth of their homes. Older people generally prefer to age in place and prefer smaller properties than younger age groups.

Current housing¹⁵

The majority (78%) of Nelson's older residents own or partly own¹⁶ their usual residence, compared with 69% of 40-64 year olds and 25% of 15-39 year olds. There has been a small decline in home ownership by older people, down from 80% in 2006 and 2001. This reflects trends elsewhere in New Zealand.

The majority (87%) live in private dwellings and half live in single-storey stand-alone houses. A quarter live in two storey dwellings.

The following data is for residents in private dwellings only and does not include residents in residential care.

A third (32%) of Nelson's older people live alone and 59% live in a two-person household. A quarter of Nelson residents aged 65-74 live on their own and 32% of those aged 75 and over.

Table 6: Number of residents in household, by age group, Nelson and New Zealand, 2013

	65-74 years		75 and over		15-64 years	
	Nelson	New Zealand	Nelson	New Zealand	Nelson	New Zealand
Percentage living alone	25%	21%	43%	39%	9%	7%
Percentage living with one other	65%	62%	51%	50%	33%	27%

Almost half of Nelson's older residents live in three bedroom houses, similar to the rate for the total population and reflecting the typology of Nelson's housing stock. Older people are more likely to live in a two bedroom house than other age groups, with 29% of those aged 65 and over living in two bedroom houses, compared with 17% of those aged under 65. Forty-two percent of older people living alone are living in houses with three or more bedrooms

Nineteen percent of Nelson's older residents have been living in the same house for 30 years or more and a quarter have lived at the same residence for 15-29 years.

¹⁵ Census, Statistics New Zealand

¹⁶ Includes people whose home is in a family trust

Table 7: Age groups by dwelling type, Nelson, 2013

Dwelling Type	65+	65-74	75+
PRIVATE DWELLINGS			
Total Private Dwellings	87%	93%	81%
Separate house – one storey	51%	52%	49%
Separate house – two or more storeys	20%	25%	13%
Attached dwelling (units, townhouse or apartment) – one storey	13%	11%	15%
Attached dwelling (units, townhouse or apartment) – two or more storeys	4%	4%	3%
Dwelling in a motor camp	1%	1%	0%
NON-PRIVATE DWELLINGS			
Residential care	8%	2%	15%

Data¹⁷ for Nelson/Tasman/Marlborough indicates that most of the older people in these regions have no major problems with the condition of their house:

- 52% report no repairs or maintenance is needed
- 47% report minor repairs and maintenance is needed

- 93% reported no problem with dampness or mould

- 60% reported that, in winter, their house or flat is not colder than they would like
- 31% reported their house or flat was sometimes colder than they would like
- 9% reported their house or flat was often or always colder than they would like

Residential care

Eight percent¹⁸ live in residential care for older people, with the majority of those aged 80 and over. In recent years, there has been a decrease in aged residential care use in Nelson/Tasman/Marlborough (and across New Zealand) and an increase in the provision of homebased support services.

“Older people generally state strong preferences for living in their own home or non-institutional community settings. With appropriate models of care, this aspiration is achievable for many older people with age-related health and support needs. Increasing focus is being given to anticipatory and/or restorative models of care that enable older people to live in the community (‘age in place’) by addressing emerging health and support needs or supporting quicker recovery.”¹⁹

¹⁷ General Social Survey, Statistics New Zealand

¹⁸ Census, Statistics New Zealand

¹⁹ NMDHB (2015), Nelson Marlborough Health Needs and Service Profile

Future Housing Demand

The ageing population is driving a trend for smaller households and increasing demand for smaller properties.

The results from a Digipol survey on Health, Housing and Methods of Home Heating (2014) showed that older Nelson residents are more likely to prefer two bedrooms than three bedrooms, and are also more likely to want a small section, courtyard or balcony. Eighty percent of those aged over 60 would prefer to stay in the same suburb, compared with 62% of younger age groups.

Nelson property managers and real estate agents have reported increasing demand for smaller properties from the growing baby-boomer age group. They are reported to want sunny, low maintenance properties with at least two bedrooms and a garage, on a flat section close to services.

Nelson is projected to have an extra 3,300 households between 2013 and 2028, under the medium growth scenario (or an extra 5,100 under the high growth scenario). All the growth is projected to be in couple-without-children households and one-person households, due to the ageing of the population. The percentage of one-person households is projected to increase from 27% in 2013 to 31% in 2028 and 33% in 2038. The average household size is projected to decrease from 2.4 people per household in 2013, to 2.3 by 2028 and 2.2 by 2038.

Table 8: Housing preferences by age groups by number of bedrooms, Nelson, 2014²⁰

<i>Thinking about your future housing needs in say ten years' time, how many bedrooms are you most likely to want for your house?</i>					
Age Group	1 bedroom	2 bedrooms	3 or more bedrooms	Not Sure/Refused	Number of respondents
18-29 years	0%	7%	92%	2%	61
30-39 years	2%	7%	90%	2%	163
40-49 years	2%	23%	73%	2%	250
50-59 years	6%	40%	51%	3%	309
60-69 years	7%	43%	47%	4%	249
70-79 years	16%	50%	30%	5%	203
80 years or older	25%	48%	14%	12%	97

Table 9: Housing preferences by age groups by section size, Nelson, 2014²¹

<i>Thinking about your future housing needs in say ten years' time, what size section are you most likely to want?</i>					
Age Group	Small (ranging from a courtyard or balcony to < 400m ²)	Average size section (400 - 750 m ²)	Large (bigger than 750m ²)	Not Sure/Refused	Number of respondents
18-29 years	8%	49%	39%	3%	61
30-39 years	7%	48%	41%	4%	163
40-49 years	18%	54%	26%	2%	250
50-59 years	35%	46%	16%	4%	309
60-69 years	45%	39%	10%	5%	249
70-79 years	65%	23%	4%	8%	203
80 years or older	65%	19%	4%	12%	97

²⁰ Digipol Survey on Health, Housing, and methods of Home Heating, 1300 Nelson residents, July 2014

²¹ Ibid

Financial wellbeing

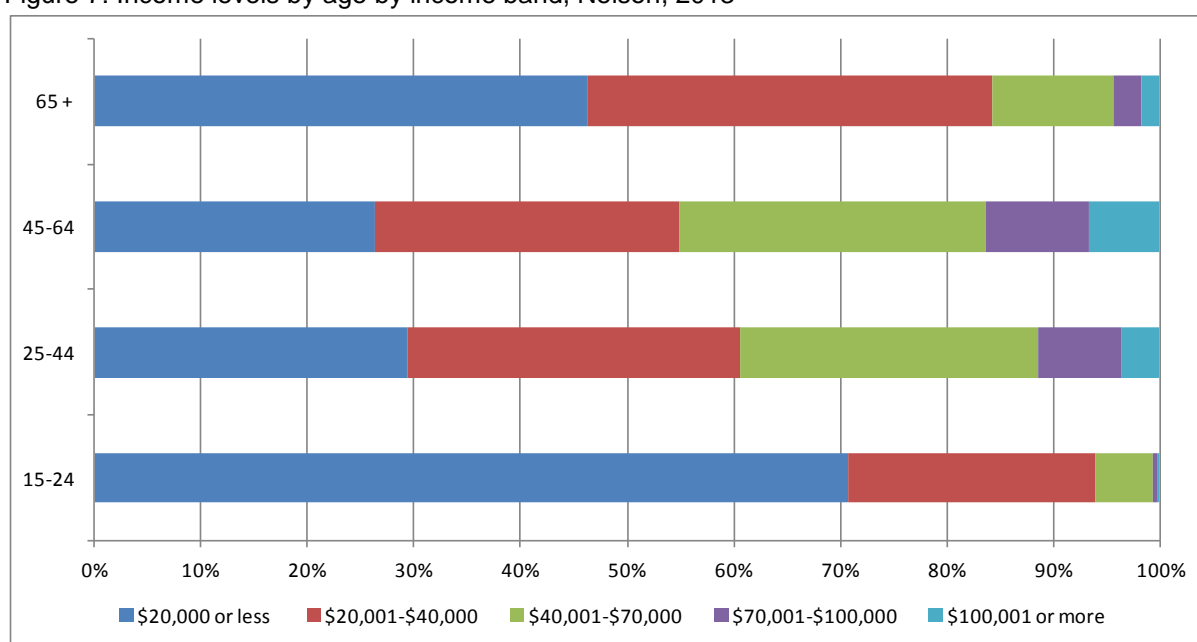
Despite lower incomes than younger age groups, older people generally report higher net worth and higher material and financial wellbeing.

Income levels²²

The median income for Nelson's older residents in 2013 was \$21,000, which was similar to the national median for older people of \$20,900.

Compared with younger age groups, a greater proportion of Nelson's older residents that stated their incomes as being under \$20,000 (46%) and a smaller proportion report incomes over \$40,000 (16% of the older population compared to 45% of those aged 45-64 and 39% of those aged 25-44). Around one third of the older population in Nelson report incomes between \$20,000 and \$40,000.

Figure 7: Income levels by age by income band, Nelson, 2013



Source: Census, Statistics New Zealand

The number of older people in Nelson with incomes over \$100,000 is lower than the national average (1.7% for Nelson, compared with 2.7% nationally). Queenstown-Lakes has the highest rate of wealthy older residents (6.7%), followed by Wellington.

Net Worth

Statistics New Zealand's Household Economic Survey includes information on wealth (assets and liabilities), with data available at a national level by age groups.

In the year ended June 2015, the survey results showed that the individual net worth of New Zealanders increased with age. Older people had the highest median net worth (\$288,000), compared with the median net worth for all age groups of \$87,000. Generally, older people have accumulated net worth over their life time. They tend to own their own home outright or have retirement savings by the time they reach retirement age²³.

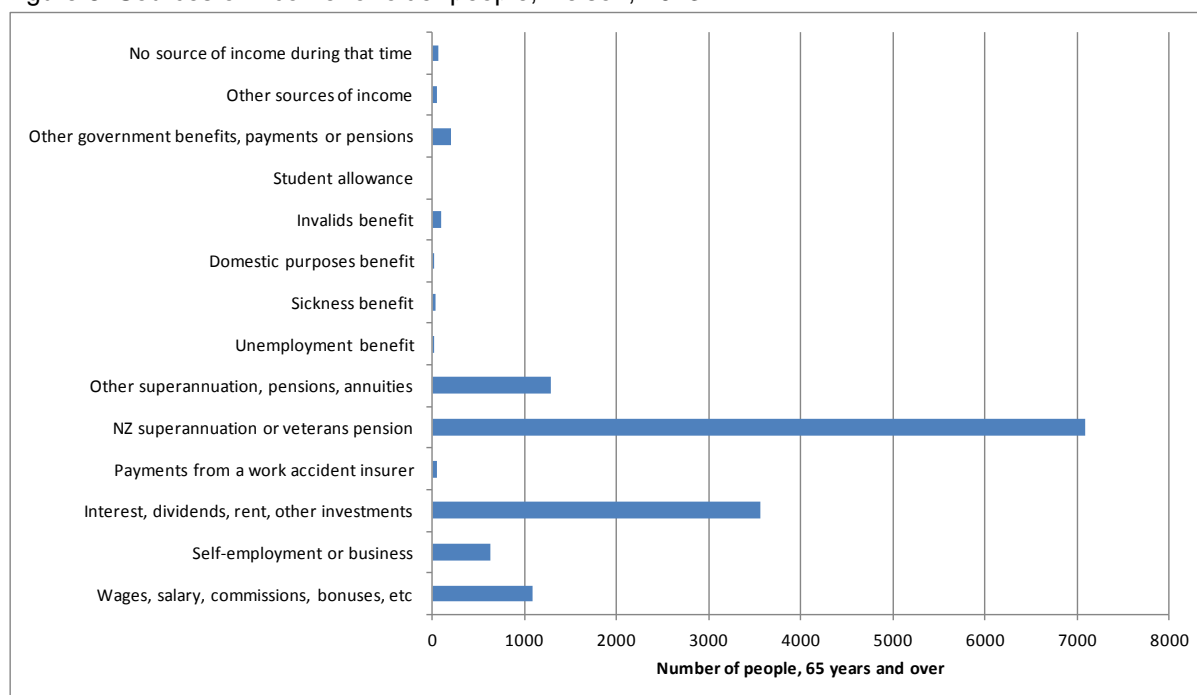
²² Census, Statistics New Zealand

²³ Statistics New Zealand (2016) Household Net Worth Statistics: Year ended June 2015

Sources of income

In 2013²⁴, over 90% of older Nelson residents received income from New Zealand superannuation or veterans pension. Nearly half also received some income from interest, dividends, rent or other investments. Fourteen percent received income from wages, salary, commissions or bonuses paid by an employer and eight percent received income from self-employment or business. Approximately 16% also sourced some income from other superannuation, pensions or annuities.

Figure 8: Sources of income for older people, Nelson, 2013



Source: Statistics New Zealand

Nelson/Tasman/Marlborough residents have a life expectancy at 65 of living to 85.5 years on average²⁵.

Research commissioned by Ministry for Social Development (2013) indicated that around half of older New Zealanders have few or no savings to supplement New Zealand superannuation and this is likely to be a similar proportion for Nelson's older population. In 2013²⁶, 39% of older people in Nelson received income from only one source, presumably New Zealand superannuation in most cases.

However, older people will retire with increasingly large government subsidised lump sums, such as Kiwisaver, that will need to be managed over an uncertain lifespan. In 2013, nearly half of Nelson's older people received some income from interest, dividends, rent or other investments. Government intervention is likely to be needed to provide an efficient way to draw their savings down throughout their retirement in order to maintain their relative standard of living. Individuals in or close to retirement could benefit from a range of products, such as annuities, to provide a way to draw their savings down throughout their retirement so as not to exhaust their savings before they die²⁷.

²⁴ Census, Statistics New Zealand

²⁵ NMDHB (2015), Nelson Marlborough Health Needs and Service Profile

²⁶ Census, Statistics New Zealand

²⁷ Berthold, T. (2013) Assuring retirement income

Material and Financial Wellbeing

Statistics New Zealand's General Social Survey includes measures of material and financial wellbeing.

The material wellbeing index is a measure of wealth in that it measures the ability to afford things, ranging from essentials such as healthy food, doctor visits, paying bills and keeping warm, to the degree of freedom a person has for purchasing desirable non-essentials. Due to sample sizes, Nelson data is only available in combined totals for Nelson, Tasman and Marlborough.

Results of the 2014 survey show that 52% of older people in the three regions have material wellbeing that is rated as 'higher' and 32% have material wellbeing in the 'upper middle' category. The remaining 16% have 'lower' or 'lower middle' levels of material wellbeing. Older people in Nelson, Tasman and Marlborough have higher material wellbeing than younger age groups. 65% of the total population in Nelson, Tasman, and Marlborough have upper middle or higher material wellbeing, compared with 84% of those aged 65 and over.

More than two-thirds (68%) of older people in Nelson, Tasman, and Marlborough report having enough, or more than enough, income to meet everyday needs, while 22% have just enough and 10% report not having enough.

Living standards and financial wellbeing generally rise with age. Older New Zealanders have the most favourable distribution of living standards of all age groups. According to a 2009 report by MSD²⁸, "this reflects the combined effect of public provision (mainly New Zealand Superannuation) and private provision (including own home and other savings) for the current cohort".

²⁸ Ministry of Social Development (2009) [*Non-income measures of material wellbeing and hardship: first results from the 2008 New Zealand Living Standards Survey, with international comparisons.*](#)

Health

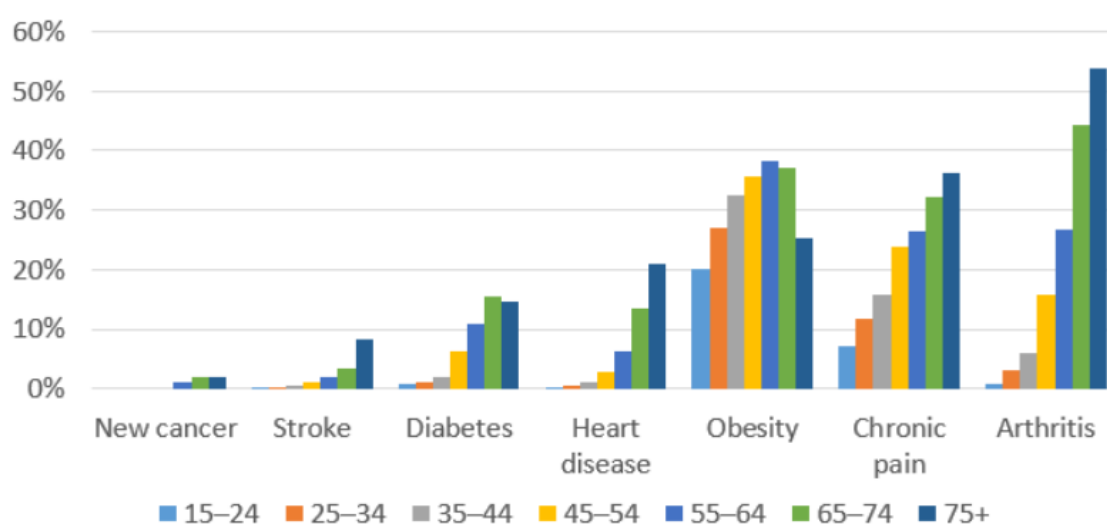
Despite trends for disability rates to increase with age and physical activity rates to decline, older people in the upper South Island generally report good health and good nutrition.

The majority of older people in Nelson/Tasman/Marlborough rate their general health as good, very good, or excellent²⁹. However, approximately 20% rate their health as fair or poor. The rate for these three regions are similar to the national rate for older people. Nationally, self-reported good health of people aged over 75 has steadily improved over the last decade.

The Nelson Marlborough District Health Board's Health Needs and Services Profile (2015) states that the Nelson, Tasman, Marlborough population has generally good health compared to others in New Zealand. The population aged 75 and over appear to have good access to hospital and community-based services, with good ageing in place support.

Some health conditions are much more common in older people, particularly arthritis, chronic pain, and heart disease.

Figure 9: Prevalence of certain health conditions by age, New Zealand, 2014/15³⁰



Source: Ministry of Health, Annual Update of Key Results 2014/15: New Zealand Health Survey and Cancer: New registrations and deaths 2012

In recent years, there has been a decrease in aged residential care use in Nelson/Tasman/Marlborough (and across New Zealand), primarily as a result of decreasing rest home utilisation (the least intensive form of long-term support)³¹. Nationally³², although aged residential care expenses account for 60% of spending on services for older people, spending on home-support services has been increasing at a faster rate. The proportion of people age 75 and over who need residential care is expected to decrease over time. However, hospital and dementia utilisation has been increasing, reflecting the increasing complexity of older people's needs. This is

²⁹ General Social Survey, Statistics New Zealand

³⁰ <http://www.health.govt.nz/nz-health-statistics/health-statistics-and-data-sets/older-peoples-health-data-and-stats/health-conditions-older-people>

³¹ Nelson Marlborough District Health Board (2015), Nelson Marlborough Health Needs and Service Profile 2015

³² <http://www.health.govt.nz/nz-health-statistics/health-statistics-and-data-sets/older-peoples-health-data-and-stats/dhb-spending-services-older-people>

expected to continue. At the same time it is expected that people will spend a greater proportion of their older years in reasonable health, with severe ill-health delayed to the last few years. However the absolute number needing assistance and all forms of health care will increase, due to the increase in the number of older people.

If current health and disability rates for older age groups continue to prevail for the next generation, we can expect the prevalence of disabilities and health issues to increase in society as the population ages.

Disability Levels

A disability is defined as any limitation in activity resulting from a long-term condition or health problem. Long term is defined as six months or longer³³. As life expectancy has increased, disability rates of those aged between 60 and 80 have declined. However, as noted above, it is important to acknowledge the absolute increase in numbers that will be needing assistance as the result of numerical increase in the number of older people.

The 2013 Disability Survey found that 60% of older people in Nelson/Tasman/Marlborough/ West Coast³⁴ households had a disability. This data is for older people in private dwellings and does not include older people in residential care. The impairment rates for older people are significantly higher than for younger age groups, for example, 29% of the 45-64 year age group have a disability.

The most common disability was 'physical' with 47% of older people reporting mobility and/or agility impairments. Mobility impairments includes having difficulty with or being unable to walk about 350 metres without resting, walk up or down a flight of stairs, carry an object as heavy as five kilograms for a 10 metre distance, move from room to room, or stand for periods longer than 20 minutes. Agility impairments includes having difficulty with or being unable to bend over to pick something up off the floor, dress or undress themselves, cut their own food, or get themselves in or out of bed.

Thirty-one percent reported a sensory impairment, which includes hearing and vision impairments. Hearing impairments includes having difficulty hearing or being unable to hear what is said in a conversation with one other person and/or a conversation with at least three other people. Vision impairments includes having difficulty seeing or being unable to see ordinary newsprint and/or the face of someone from across a room, even when wearing corrective lenses.

³³ Disability Survey, Statistics New Zealand

³⁴ At time of writing, data was provisional and the sample size for Disability Survey data required Nelson to be combined with three other regions. Statistics New Zealand will be releasing disability data by territorial authority in early 2017.

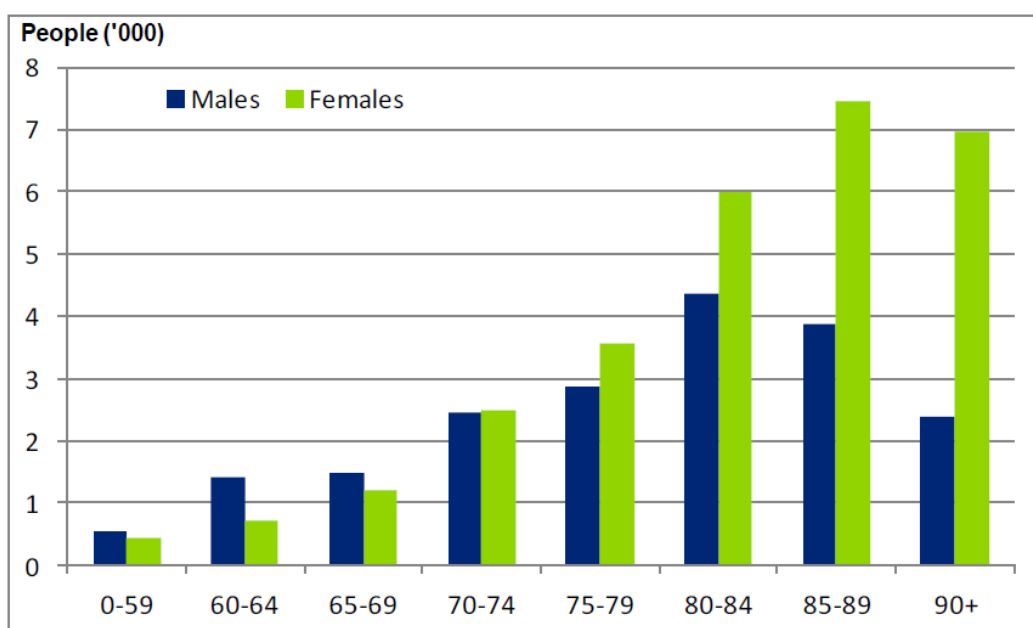
Dementia

Dementia is a degenerative condition that affects a person's memory and their ability to do everyday tasks. It is caused by a range of diseases, of which Alzheimer's disease is the best known.

In 2011, just over 48,000 New Zealanders had dementia (1.1% of the population)³⁵. Women accounted for 60% of that number. This is partly due to women living longer than men on average which means there are more older women than older men in the population. It is also due to women being more likely than men to be affected by dementia, with the prevalence rate of dementia being higher for women than men in age groups over 75 years. There were an estimated 13,486 new cases of dementia in 2011.

The prevalence of dementia increases with age. As the older population grows, there will be an increase in the number of people with dementia, with the total for New Zealand projected to triple by 2050 to 147,000 (2.6% of the population).

Figure 10: Prevalence of dementia by age and gender, New Zealand, 2011



Source: Alzheimer's New Zealand (2012)

³⁵ Alzheimer's New Zealand (2012)

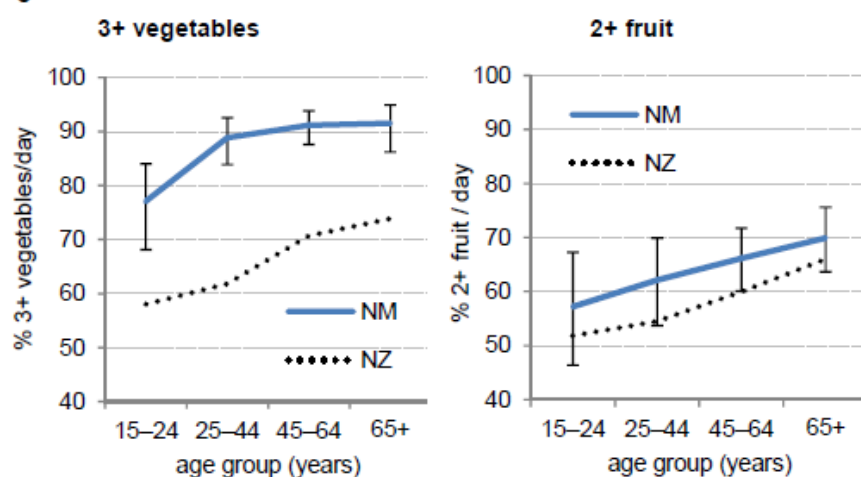
Nutrition

Research has shown that “a combination of good nutrition and increased physical activity can have beneficial effects on the health of virtually all older adults.”³⁶

The reported intake of fruit and vegetables is higher for older people in Nelson/Tasman/Marlborough than for other age groups, and Nelson/Tasman/Marlborough residents report higher rates than the national average. At least 90% of Nelson/Tasman/Marlborough older people ate on average three or more servings of vegetables per day, and 70% ate on average two or more servings of fruit per day.

Figure 11: Adult nutrition (intake of vegetables and fruit) by age group, Nelson-Marlborough DHB and New Zealand, 2011/14³⁷

Age distribution – NM and NZ 2011/14



Adults who ate on average three or more servings of vegetables per day; and adults who ate on average two or more servings of fruit per day in the last week. Includes all fresh, frozen and canned vegetables/fruit, but not juices.

Physical Activity

Physical activity has a strong influence on physical and mental health. Adequate levels of physical activity can reduce the risk of premature death and poor health across a number of serious diseases and conditions³⁸. Physical activity can improve agility, mobility and balance and reduce the risk of falling.

Approximately half of Nelson/Tasman/Marlborough older people reported being physically active for at least 30 minutes on five or more days, compared with 70% of 45-64 year olds. People living in Nelson/Tasman/Marlborough reported a higher rate of physical activity than the rest of New Zealand³⁹.

³⁶ Ministry of Health (2003) [Healthy Eating – Healthy Action. Oranga Kai – Oranga Pumau: A Strategic Framework](#)

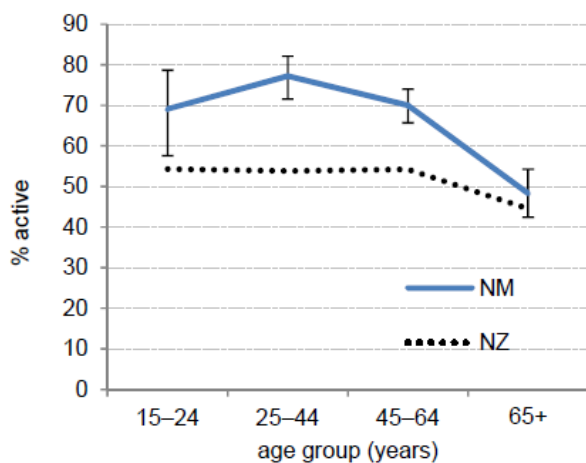
³⁷ Nelson Marlborough District Health Board (2015), Nelson Marlborough Health Needs and Service Profile 2015, Source: NZ Health Survey 2011/14

³⁸ Ministry of Health (2013) Guidelines on Physical Activity in Older People

³⁹ NMDHB (2015), Nelson Marlborough Health Needs and Service Profile

Figure 12: Adult physical activity rates by age group, Nelson-Marlborough DHB and New Zealand, 2011/14⁴⁰

Age distribution – physically active NM and NZ 2011/14



Adults who were physically active for at least 30 minutes on five or more days in the last week

National data⁴¹ showed that the most popular physical activities for 65-74 year olds were walking, swimming, cycling and fishing. For people aged over 75, the most popular activities were walking and bowls.

Table 10: Most popular sport and recreation activities participated in over 12 months, New Zealand, 2013/14

65-74 years				75+ years			
1	Walking	72.2	275,000	Walking	61.7	138,000	
2	Swimming	20.5	78,000	Bowls	12.1	27,000	
3	Cycling	15.8	60,000	Equipment-based exercise	10.4*	23,000	
4	Fishing	15.2	58,000	Swimming	8.1*	18,000	
5	Equipment-based exercise	13.0	50,000	Fishing	8.0*	18,000	
6	Golf	11.8	45,000	Golf	7.0*	16,000	
7	Bowls	9.5	36,000	Callisthenics	5.8*	13,000	
8	Dance	9.4	36,000	Dance	5.3*	12,000	
9	Pilates/yoga	7.6	29,000	Exercising at home (other)	4.3*	10,000	
10	Tramping	6.8	26,000	Cycling	3.4*	8,000	

⁴⁰ Nelson Marlborough District Health Board (2015), Nelson Marlborough Health Needs and Service Profile 2015. Source: NZ Health Survey 2011/14

⁴¹ Sport New Zealand (2015)

Research by Nelson Nursing Services in 2007⁴² found that older people who are isolated and less socially involved experience a greater number of barriers to participation. Barriers included:

- lack of a suitable place to exercise
- pain from medical condition e.g. arthritis
- scared of hurting themselves or falling
- not used to exercising for the sake of it.

Consultation with stakeholders also highlighted a number of considerations:

- sport and organised activities are often seen by older people as something for the young
- many activity based programmes are aimed at younger people
- motivating older people is particularly difficult
- intervention aimed at older people must be specific to their needs
- falls, or being at risk of falls, is a major cause of disability and declining health.

The research suggested that increasing incidental activity is more likely to work than promoting 'exercise'. Research in the UK among newly retired people indicated "that the word 'sport' is not received well, that both men and women place more value on 'active chores' than on 'exercise', and that gentler activities such as walking are more acceptable." ⁴³

Social Connection

The majority of older people report rarely feeling lonely and are satisfied with the amount of contact with family and friends.

Research by the Health Action trust (2014) asked respondents about the issues that affect older people's mental health and wellbeing. The issues that were most commonly identified were 'mental health and illness', followed by 'loneliness and isolation' and 'transport'.

However, the 2014 General Social Survey⁴⁴ showed that in Nelson/Tasman/Marlborough, as well as generally for New Zealand, older people were less likely to feel lonely than younger age groups. Three quarters (75%) of those aged 65+ in Nelson/Tasman/Marlborough had felt lonely "none of the time" in the previous four weeks, compared with two-thirds (66%) for all age groups. Twenty percent of those aged 65 and over had felt lonely "a little of the time" in the previous four weeks. A small number reported having felt lonely some, most, or all of the time in the previous four weeks (the small number meant the sampling error was too high for specific results to be reported).

The majority (96%) of older people in Nelson/Tasman/Marlborough and across New Zealand reported that the amount of contact with family and friends was "about right"⁴⁵.

⁴² Nelson Nursing Services (2007)

⁴³ Sport England (2006) *Understanding participation in sport: What determines sports participation among recently retired people?*

⁴⁴ Statistics New Zealand

⁴⁵ General Social Survey, Statistics New Zealand

Volunteering

One in five older residents provide help or voluntary work for an organisation, group or marae.

According to 2013 Census data on unpaid activities, 21% of older people in Nelson provide help or voluntary work for an organisation, group or marae, 12% look after children who don't live with them, and 10% help someone who is ill or has a disability who doesn't live with them. These figures are similar to those for total New Zealand.

Table 11, Unpaid Activities by age, Nelson and New Zealand, 2013

Unpaid Activities ⁴⁶	Nelson		New Zealand
	65+	15-64	65+
Looking after a child who does not live in own household	12%	18%	13%
Helping someone who is ill or has a disability who does not live in own household	10%	10%	9%
Other helping or voluntary work for or through any organisation, group or marae	21%	16%	19%
No activities	20%	8%	19%

Education

Nelson's older residents have relatively high education levels.

Compared with older residents in New Zealand's 67 territorial authorities, Nelson is the sixth highest for the proportion with at least a secondary school qualification (65%) and the 11th highest for the proportion with at least a bachelor degree (12%)⁴⁷.

Transport

Despite an increasing majority of older people with access to a motor vehicle, there is an increasing trend in public transport use.

The ageing population also has implications for transport policy. On one hand, the increase in motorisation means more older people will be driving in the future, compared with the current cohort of older people. On the other hand, the increase in the number of older people and the correlation between age and disability rates means there will be increased demand for public transport alternatives.

⁴⁶ Other unpaid activities include household work, cooking, gardening for own household; looking after children who live in the same household; or looking after a member of their household who is ill or has a disability.

⁴⁷ Census, Statistics New Zealand

Private Transport

In 2013⁴⁸, 95% of those aged 65-74 had access to at least one motor vehicle and 85% of those aged over 75. Since 2001, access to a vehicle has increased for older people in Nelson and across New Zealand. In 2001, 84% of 65-74 year olds and 74% of 75+ had access to a vehicle.

Vehicle accessibility rates for older people vary throughout the city. Of the 624 older people without access to a vehicle, 99 live in The Wood area unit⁴⁹ and 93 live in the Isel Park area unit.

A Ministry of Transport report in 2009⁵⁰ recognised that road safety for people over the age of 75 is an emerging issue. “The road safety risk is **to** older New Zealanders rather than **from** them”. They have a lower risk of being in a crash than other road users, but a higher risk of being seriously injured.

National research⁵¹ has shown that as people grow older, they tend to travel less than those in younger age groups, and to travel for different purposes. Older people also tend to make most of their trips off peak and travel more in urban areas than on the open road. These findings have also highlighted the importance of accounting for an ageing population in transport modelling of future travel demand.

Public Transport

Under the Supergold scheme, older people are able to travel for free on urban public transport at off peak times. At present, the Government reimburses Nelson City Council and other regional councils for SuperGold trips on a per-trip basis. The Government has decided to shift to a bulk funding approach from 2016/17, where the level of funding will be agreed between regional councils and the New Zealand Transport Agency. This change will bring SuperGold Card funding into line with the way other public transport funding is allocated, and provide a ceiling on the cost of the scheme to Government. Any cost overruns will need to be funded by councils.

Supergold fares contribute 14% of NBus total fare revenue. Supergold fares have increased annually since NBus was introduced in 2012, although the rate of growth has slowed over time. The annual number of Supergold trips increased from 53,724 in 2012/13 to 70,536 in 2015/16.

The Total Mobility Scheme provides subsidised taxi services to people who have an impairment that prevents them from safely getting to or using public transport. The scheme is jointly funded by local and central government. Since 2005, the number of people registered for the Total Mobility Scheme in Nelson/ Tasman/Marlborough has doubled, although the number of boardings increased 11%.

⁴⁸ Census, Statistics New Zealand, for population living in private households, excludes population in residential care

⁴⁹ Area units are non-administrative, geographic areas [defined](#) by Statistics New Zealand, containing one or more census meshblocks, the basis geographic unit used for collecting and reporting population data each Census.

⁵⁰ Ministry of Transport (2009) [Safer Journeys Discussion Document](#). Ministry of Transport, Wellington: New Zealand

⁵¹ Frith, Mara, and Langford (2012).

Appendix 1: Demographic indicators, territorial authority ranking

Rank	Percentage of population aged 65 and over, 2015	Percentage of population aged 65 and over, 2028	Labour force participation rates for residents aged 65 and over, 2013	Median income for residents aged 65 and over, 2013
1	Thames-Coromandel 29%	Thames-Coromandel 38%	Chatham Islands 38%	Queenstown-Lakes \$28,100
2	Kapiti Coast 26%	Central Otago 31%	Southland 34%	Wellington \$25,600
3	Horowhenua 25%	Horowhenua 31%	Otorohanga 33%	Chatham Islands \$22,500
4	Hauraki 23%	Hauraki 31%	Waitomo 32%	Southland \$22,500
5	Marlborough 22%	Kapiti Coast 30%	Hurunui 32%	Waipa \$22,300
6	Waimate 22%	Marlborough 30%	Selwyn 31%	Porirua \$22,200
7	Waitaki 22%	Tasman 30%	Waikato 31%	South Wairarapa \$22,100
8	Central Otago 22%	Kaipara 30%	Central Hawke's Bay 31%	Selwyn \$22,100
9	Kaipara 21%	Kaikoura 29%	Ruapehu 30%	Hurunui \$22,000
10	South Wairarapa 21%	Central Hawke's Bay 28%	Queenstown-Lakes 29%	Kapiti Coast \$21,900
11	Kaikoura 21%	Timaru 28%	Kaikoura 29%	Taupo \$21,800
12	Timaru 21%	Carterton 28%	South Wairarapa 28%	Western Bay of Plenty \$21,700
13	Western Bay of Plenty 20%	Gore 28%	Rangitikei 28%	Otorohanga \$21,500
14	Tauranga 20%	Waimate 28%	Manawatu 27%	Palmerston North \$21,500
15	Whanganui 20%	South Wairarapa 27%	Westland 27%	Lower Hutt \$21,400
16	Masterton 20%	Masterton 27%	Mackenzie 27%	Matamata-Piako \$21,200
17	Carterton 20%	Waitaki 27%	Central Otago 27%	Tauranga \$21,200
18	Tasman 20%	Whanganui 27%	Clutha 27%	Waikato \$21,100
19	Far North 19%	Western Bay of Plenty 27%	Western Bay of Plenty 26%	Hamilton \$21,100
20	Kawerau 19%	Nelson 27%	Wairoa 26%	Hastings \$21,100
21	Napier 19%	Tararua 26%	Carterton 26%	Marlborough \$21,100
22	Central Hawke's Bay 19%	Far North 26%	Tararua 26%	Rotorua \$21,000
23	Gore 19%	Grey 26%	Waipa 25%	Gisborne \$21,000
24	Whangarei 18%	Napier 26%	Wellington 25%	Nelson \$21,000
25	Matamata-Piako 18%	Buller 26%	Kaipara 24%	Christchurch \$21,000
26	Taupo 18%	Hurunui 25%	Porirua 24%	Ashburton \$21,000
27	Opotiki 18%	Opotiki 25%	Taupo 24%	Auckland \$20,900
28	Rangitikei 18%	Westland 25%	Ashburton 24%	Whakatane \$20,900
29	Tararua 18%	Matamata-Piako 25%	Rotorua 24%	Manawatu \$20,900
30	Nelson 18%	Rangitikei 24%	Stratford 24%	Mackenzie \$20,900
31	Buller 18%	Waimakariri 24%	Gisborne 24%	Gore \$20,900
32	Hurunui 18%	Whangarei 24%	Far North 23%	Central Hawke's Bay \$20,800
33	Waipa 17%	Whakatane 24%	South Taranaki 23%	New Plymouth \$20,700

Rank	Percentage of population aged 65 and over, 2015	Percentage of population aged 65 and over, 2028	Labour force participation rates for residents aged 65 and over, 2013	Median income for residents aged 65 and over, 2013
34	Wairoa 17%	Wairoa 24%	Hastings 23%	Kaikoura \$20,700
35	New Plymouth 17%	Clutha 23%	Waimakariri 23%	Napier \$20,600
36	Stratford 17%	Kawerau 23%	Opotiki 23%	Upper Hutt \$20,600
37	Manawatu 17%	New Plymouth 23%	Marlborough 23%	Masterton \$20,500
38	Grey 17%	Taupo 23%	Matamata-Piako 23%	Tasman \$20,500
39	Westland 17%	Tauranga 23%	Tasman 22%	Central Otago \$20,500
40	Waimakariri 17%	Manawatu 23%	Grey 21%	Thames-Coromandel \$20,400
41	Ashburton 17%	Chatham Islands 23%	Whakatane 21%	Waitomo \$20,400
42	South Waikato 16%	Hastings 23%	Waimate 21%	Ruapehu \$20,400
43	Whakatane 16%	Waipa 23%	Auckland 21%	Carterton \$20,400
44	Hastings 16%	South Waikato 23%	Hamilton 21%	Tararua \$20,200
45	Mackenzie 16%	Invercargill 22%	Gore 21%	Dunedin \$20,200
46	Clutha 16%	Mackenzie 22%	South Waikato 21%	Clutha \$20,200
47	Invercargill 16%	Ruapehu 21%	Lower Hutt 21%	Invercargill \$20,200
48	South Taranaki 15%	Upper Hutt 21%	Hauraki 20%	South Taranaki \$20,000
49	Upper Hutt 15%	Dunedin 21%	Masterton 20%	Whanganui \$20,000
50	Christchurch 15%	Gisborne 21%	Palmerston North 20%	Westland \$20,000
51	Dunedin 15%	Stratford 20%	Whangarei 20%	Far North \$19,900
52	Otorohanga 14%	Rotorua 20%	New Plymouth 19%	Kaipara \$19,900
53	Waitomo 14%	Southland 20%	Thames-Coromandel 19%	Rangitikei \$19,900
54	Rotorua 14%	South Taranaki 20%	Christchurch 19%	Whangarei \$19,800
55	Gisborne 14%	Ashburton 20%	Invercargill 19%	Waimakariri \$19,800
56	Ruapehu 14%	Waitomo 20%	Upper Hutt 19%	Timaru \$19,700
57	Southland 14%	Christchurch 19%	Napier 19%	Stratford \$19,600
58	Waikato 13%	Lower Hutt 19%	Waitaki 19%	Hauraki \$19,300
59	Palmerston North 13%	Otorohanga 19%	Timaru 18%	Wairoa \$19,300
60	Lower Hutt 13%	Porirua 18%	Dunedin 18%	Horowhenua \$19,200
61	Chatham Islands 13%	Palmerston North 18%	Buller 18%	Waitaki \$19,200
62	Auckland 12%	Waikato 18%	Nelson 18%	Waimate \$19,100
63	Hamilton 12%	Queenstown-Lakes 16%	Whanganui 17%	South Waikato \$19,000
64	Porirua 11%	Selwyn 16%	Horowhenua 17%	Opotiki \$18,900
65	Selwyn 11%	Auckland 15%	Kapiti Coast 16%	Grey \$18,700
66	Queenstown-Lakes 11%	Hamilton 15%	Tauranga 16%	Kawerau \$18,200
67	Wellington 10%	Wellington 15%	Kawerau 14%	Buller \$18,200

References

- Alzheimer's New Zealand. (2012). [Updated Dementia Economic Impact Report](#), 2011, New Zealand. Wellington: Deloitte Access Economics.
- Berthold, T. (2013). [Assuring retirement income](#). Working paper 01/13. Wellington, New Zealand: Ministry of Social Development.
- Davey, J A (2007). Health, Work and Retirement Survey – Summary Report for the 2006 Data Wave: Qualitative Interviews. Massey University, Palmerston North.
- Digipol (2014), Survey on Health Housing and Methods of home heating, 2014 (A1352116)
- Frith, W, MK Mara and J Langford (2012). Demand for transport services: impact on networks of older persons' travel as the population of New Zealand ages. [NZ Transport Agency research report 481](#).
- Health Action Trust (Nelson) Mental Health Promotion (2014), [Health of Older People in Nelson Tasman 2013-14](#), Survey Report, Nelson: New Zealand
- Jackson, N.O. and Pawar, S. (2014) NTOM Subnational Demographic Accounting Model for New Zealand, Nga Tangata Oho Mairangi
- Ministry of Business, Innovation and Employment (2015) and (2014), Regional Economic Activity [Reports](#), Wellington
- Ministry of Health (2015) Annual Update of Key Results 2014/15, New Zealand Health Survey, Wellington: New Zealand
- Ministry of Health (2013) Guidelines on Physical Activity in Older People, Ministry of Health, Wellington: New Zealand
- Ministry of Health (2013) [Food and Nutrition Guidelines for Healthy Older People: A background paper](#). Wellington: Ministry of Health.
- Ministry of Health (2003) [Healthy Eating – Healthy Action. Oranga Kai – Oranga Pumau: A Strategic Framework](#). Ministry of Health Manatū Hauora, Wellington: New Zealand
- Ministry of Social Development (2015) [Realising the economic potential of older people in New Zealand: 2011-2051](#), An update to the 2011 report, Ministry of Social Development, Wellington: New Zealand
- Ministry of Social Development (2011) [Realising the economic potential of older people in New Zealand: 2011-2051](#), Ministry of Social Development, Wellington: New Zealand
- Ministry of Social Development (2009) [Non-income measures of material wellbeing and hardship: first results from the 2008 New Zealand Living Standards Survey, with international comparisons](#). Ministry of Social Development, Working Paper 01/09, Wellington: New Zealand
- Ministry of Transport (2009) [Safer Journeys Discussion Document](#). Ministry of Transport, Wellington: New Zealand
- Nelson City Council, SuperGold Card data, provided August 2016
- Nelson City Council (2009) *Older Workers in Nelson: Results from a survey of the attitudes of the over 50s towards work*. Nelson City Council, Nelson: New Zealand (A597803)

Nelson Marlborough District Health Board (), [Nelson Marlborough Health Needs and Service Profile 2015](#), Nelson

Nelson Nursing Services (2007) *Needs Assessment and Project Development: Nutrition and Physical Activity for Older People in Nelson Marlborough*. Nelson Nursing Services, Nelson: New Zealand (A96853)

NZTA, Total Mobility [data](#), accessed August 2016

Office for Senior Citizens (2015). [The Business of Ageing](#). Wellington

Organisation for Economic Co-operation and Development (2002) [Ageing, Housing and Urban Development](#). OECD, Paris: France

Parliamentary Library Research Paper (2011), [New Zealand's ageing population](#), Wellington: New Zealand.

Scobie, Grant M and Enright, James (2010) [Healthy, Wealthy and Working: Retirement Decisions of Older New Zealanders](#). New Zealand Treasury, Working Paper 10/02, Wellington: New Zealand

Sport New Zealand (2015). Sport and Active Recreation in the Lives of New Zealand Adults. [2013/14 Active New Zealand Survey Results](#). Wellington

Sport England (2006) *Understanding participation in sport: What determines sports participation among recently retired people?* Sport England: England

Statistics New Zealand (2016), [Household Net Worth Statistics: Year ended June 2015](#), Wellington: New Zealand

Statistics New Zealand (2015), General Social Surveys 2008-2014, Wellington: New Zealand (customised request A1601627)

Statistics New Zealand (2015), 2013 Disability Survey, Statistics New Zealand, Wellington: New Zealand (customised request)

Statistics New Zealand (2013), 2013 Census of population and dwellings, Wellington: New Zealand (NZ.stat and customised request A1601628)