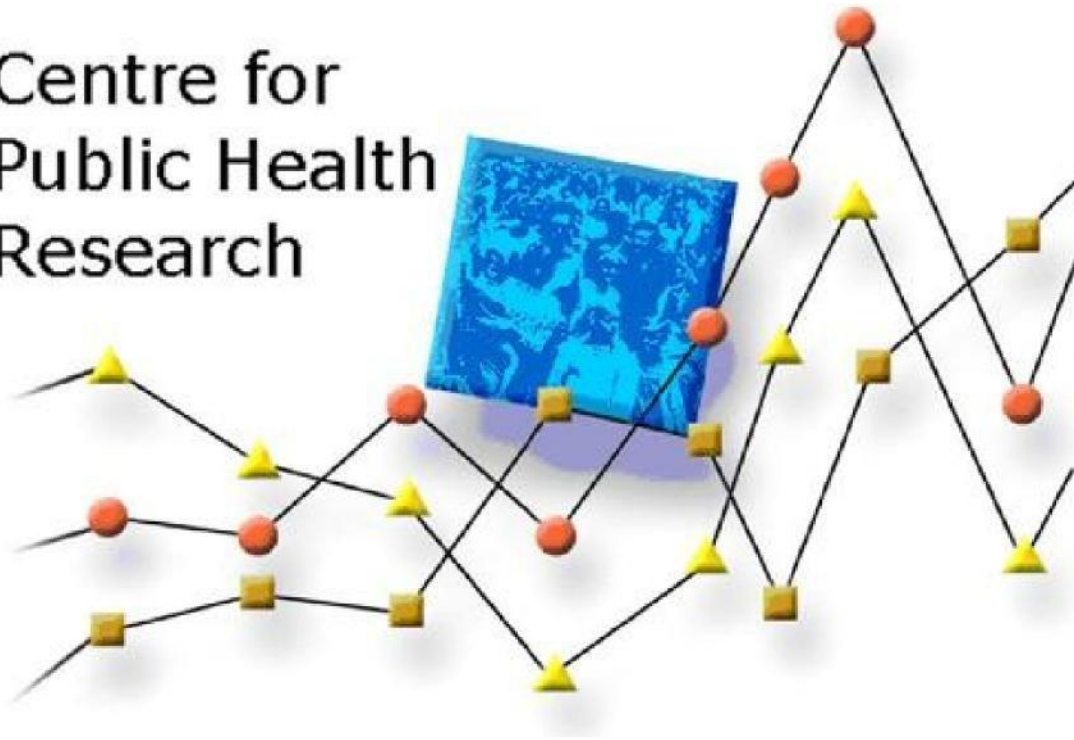


Centre for  
Public Health  
Research



## **Health Needs Assessment**

**Nelson Marlborough District Health Board**

**For the Ministry of Health**

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# **Health Needs Assessment**

## **Nelson Marlborough District Health Board**

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## **EXECUTIVE SUMMARY**

The report identifies the unmet health and healthcare needs of the Nelson Marlborough District Health Board (DHB) population by comparing the health status of Māori and non-Māori. The information contained in the report has been designed to assist the Nelson Marlborough DHB in determining priorities for its planning and decision-making to achieve health gain in its population.

### **Demographics and social determinants of health**

In the 2006 Census, Nelson Marlborough DHB had a population of 133,630 which is predicted to increase to 150,060 by 2026. The percentage increase will be less than that for New Zealand as a whole. The proportion of people identifying themselves as Māori in Nelson Marlborough DHB is lower than that of New Zealand as a whole. The Māori population is younger than the non-Māori population and is dominated by young people. Whilst the Māori population is expected to remain young over the period to 2026 the non-Māori is expected to age considerably.

In Nelson Marlborough DHB, the distribution of communities across the NZDep06 deprivation scale is dominated by the middle deciles. Whilst non-Māori show no trends in distribution, the Māori population increases in each deprivation decile up to decile 7 then decreases.

### **Health status**

#### **Avoidable mortality and hospitalisations**

There were no statistically significant differences in the rates of avoidable mortality and hospitalisations between Māori and non-Māori in the Nelson Marlborough DHB. Three of the top five leading causes of avoidable mortality were the same for Māori and non-Māori. These were ischaemic heart disease, lung cancer, and suicide.

Respiratory infections, dental conditions, ENT infections, gastroenteritis, and angina were the top five leading causes of avoidable hospitalisations for both Māori and non-Māori.

The rate of cancer hospitalisations (including melanoma and prostate cancer) for the Nelson Marlborough DHB was statistically significantly higher than the national rate. The hospitalisation rate for melanoma was however lower for Māori than non-Māori.

#### **Child and youth health**

Dental conditions was a leading cause for Māori children 0-4 years while respiratory and cardiovascular disorders specific to the perinatal period was a leading cause for non-Māori children.

Asthma and cellulitis were two of the top five leading causes for Māori children while injuries to the elbow and forearm and injuries to the head were leading causes for non-Māori children.

The rates of hospitalisation for asthma and falls for children under 15 years of age were significantly lower than the national rate.

## **Older people**

Lung cancer, stroke, ischaemic heart disease, and COPD were four of the top five leading causes for older Māori and non-Māori people.

Respiratory infections, COPD, and other diseases of intestines were leading causes of hospitalisations for older Māori people while skin cancers, ischaemic heart disease, and other forms of heart disease were leading causes for older non-Māori people.

## **Health service utilisation**

In the Nelson Marlborough DHB, 81.5 percent of Māori children had received all specified immunisation vaccines by the age of two, which was lower than the non-Māori rate but higher than the Māori national rate.

Over half of Māori people aged 65 years and over either received an influenza vaccine, or had an agreement made by a primary health provider to receive an influenza vaccine in the past 12 months.

The breast cancer screening coverage rate for Māori women was lower than that for non-Māori women and higher than the rate for Māori women in New Zealand.

Of Māori women aged 20 to 69 years in the DHB who had a primary health care provider, 49.6 percent had a cervical smear in the past three years which was lower than both the non-Māori percentage and the rate for Māori women in New Zealand.



## INTRODUCTION

A health needs assessment (HNA) is an analysis of a population's demand and need for health services. Health needs assessments can help create a picture of the health status of District Health Board (DHB) population at a given time.

The current HNA compares the health status between Māori and non-Māori by providing a descriptive analysis of the data, with the statistical information accessible in an easy-to-use format. The most recent data available are presented for each indicator. The report, along with the full suite of data tables that sit behind the figures and text, will be available on CPHROnline (<http://cphronline.massey.ac.nz/>). This is an interactive website which displays a wide range of downloadable public health data in tabular, graph and map formats. CPHROnline also has the capacity to display time trends by DHBs on major health risk factors, behaviours and conditions.

It is intended that this profile of Māori and non-Māori health will provide the basis for a continuous updating of the data on CPHROnline as new data becomes available from the national health data sets (i.e. mortality, hospitalisations, and cancer registrations).

In this HNA, information is presented about the Nelson Marlborough DHB on:

1. Demographic characteristics.
2. Socioeconomic characteristics.
3. The health status, such as rates of cancer, and diabetes.
4. Health service utilisation

The findings of the HNA are summarised in the executive summary, together with key points at the beginning of each chapter. It is anticipated that the information in the report will provide robust, high quality evidence for policy development and decision making across the health sector. It will enable decision makers to lead and manage effectively by being able to respond quickly to a population's health needs and emerging issues of their respective DHB.

# METHODS AND DATA SOURCES

## Data Notes

In the report, information is presented on the most recently available data from a variety of sources (Table 1).

**Table 1:** Data sources for numerators

Source	Data	Period	Type of data
Ministry of Health	Mortality collection data set- mortality	2006-2008	National collection
	National Minimum Data Set (NMDS)- hospitalisations	2007-2009	National collection
	New Zealand Cancer Registrations (NZCR)- cancer registrations	2005-2007	National collection
Statistics New Zealand	Demographics Population	2006	Census
	projections	2006-2026	Official Estimates
	Socioeconomic indicators	2006	Census
District Health Board New Zealand (DHBNZ)	Vaccinations	2009-2010	Primary care
	Breast Cancer Screening	2009-2010	Primary care
	Cervical Cancer Screening	2009-2010	Primary care

## Identifying the Years of Data Collection

In this report '2006-08' denotes three full calendar years of data for mortality, cancer registrations '2005-07', and hospitalisation data are for years '2007-09'.

## National Collections

The Ministry of Health has operational responsibility for national collections of health and disability information which include the mortality collections, national minimum data set (NMDS), and the New Zealand Cancer Registry (NZCR). National collections and systems provide valuable health information to support decision-making in policy development, funding and the point of care. Further information about the national systems can be obtained from the website:

<http://www.health.govt.nz/nz-health-statistics/national-collections-and-surveys/collections>

## **Disease Classification**

The International Classification of Disease Australian Modification, 10<sup>th</sup> revision (ICD-10-AM) has been used to identify diseases/conditions for reporting mortality, hospitalisations and cancer registrations (refer to Appendix 5 for a full list of ICD-10-AM codes).

## **Ethnicity Classification**

Ethnicity data are presented in two ways; 'total response' and 'prioritised'. In 'total response', a respondent is counted in each of the ethnic groups they selected. This means that the sum of the ethnic group population will exceed the total population because people can select more than one ethnic group.

In the 'prioritised' method, each respondent is allocated to a single ethnic group using the priority system (Māori > Pacific peoples > Asian > European/Other). For example a person who selects (when asked their ethnicity) both Māori and European would only be included in the Māori grouping.

Prioritised ethnicity classifies a person as Māori if any one of their recorded ethnicities was Māori. So for Māori, prioritised and total response outputs are the same. All other people were recorded as non-Māori and represent a comparative or reference group.

## **Denominators**

Population information was obtained from Statistics New Zealand. In general the denominators used for calculating the rates were derived from 2006 Census population data. Any other denominators used are indicated in the tables.

## **Rates**

Rates are calculated as the proportion of the population associated with the indicator compared with the total population of interest. Rates are expressed per 100 (percent), per 1000, per 10,000 or per 100,000. Age-specific rates are shown for defined age groups.

In this report, rates have not been calculated for counts less than 5. These have been presented as 0.0 in this report.

## **Age-standardised Rates (ASRs)**

Where appropriate and indicated in the tables, rates have been age-standardised to enable comparison between population groups with different age structures. The standard population used was the 2001 Census Māori population (males and females combined) using five-year age groups up to 84, then 85+. Use of a Māori population standard creates rates that are a close approximation of the crude overall rates for Māori and thus better reflect the experience of the Māori population.

## Confidence Intervals

In the report, 95% confidence intervals for the rates are presented, where appropriate. The confidence interval gives an indication of the margin of error associated with the rate estimates. When the 95% confidence intervals of two rates do not overlap, the difference in rates between the groups is said to be statistically significant with 95% confidence.

Larger populations and more common conditions usually have narrower confidence intervals and so have a greater likelihood of achieving a statistically significant difference than results with smaller numbers.

Certain cells within the mortality, hospitalisation, and cancer registration tables (see Appendices 2-4) have been shaded to indicate whether the age-standardised rates (ASR) between two groups are statistically significant. The two comparisons being made are:

Māori ASR compared to non-Māori ASR within District Health Board:

**Māori ASR statistically significantly higher than non-Māori ASR**

Māori ASR statistically significantly lower than non-Māori ASR

District Health Board ASR compared to New Zealand ASR:

**DHB ASR statistically significantly higher than national ASR**

DHB ASR statistically significantly lower than national ASR

## Ranking of Leading Causes

Ranking the leading causes of mortality and hospitalisations indicates the most frequently occurring causes of death or hospitalisation by using the ASR as the ranking criterion.

## How to interpret tables in this report

The blue shades highlights differences between Māori and non-Māori within the District Health Board

The red/pink shades highlights differences between the District Health Board and New Zealand

Explains what the table is about, and that the data is age-standardised

Age-standardised Rate for the female Māori population in the DHB

The 95 percent confidence interval of the age-standardised rate – and indicator of margin of error

Table 2.1.17: Ischaemic heart disease mortality, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori			non-Māori			Total	
		ASR	95% confidence		ASR	95% confidence		ASR	95% confidence
DHB	Female	863.7	749.8	- 977.7	536.3	521.5	- 551.0	541.1	526.6 - 555.6
	Male	550.1	463.9	- 636.3	718.4	698.2	- 738.6	721.0	701.3 - 740.8
	Total	919.1	824.6	- 1013.7	622.3	610.1	- 634.5	626.8	614.9 - 638.8
New Zealand	Female	893.9	878.3	- 909.5	394.7	392.6	- 396.7	422.3	420.2 - 424.4
	Male	1416.1	1393.1	- 1439.1	728.8	725.4	- 732.2	765.7	762.3 - 769.1
	Total	1123.8	1110.5	- 1137.0	545.4	543.5	- 547.3	577.2	575.2 - 579.1

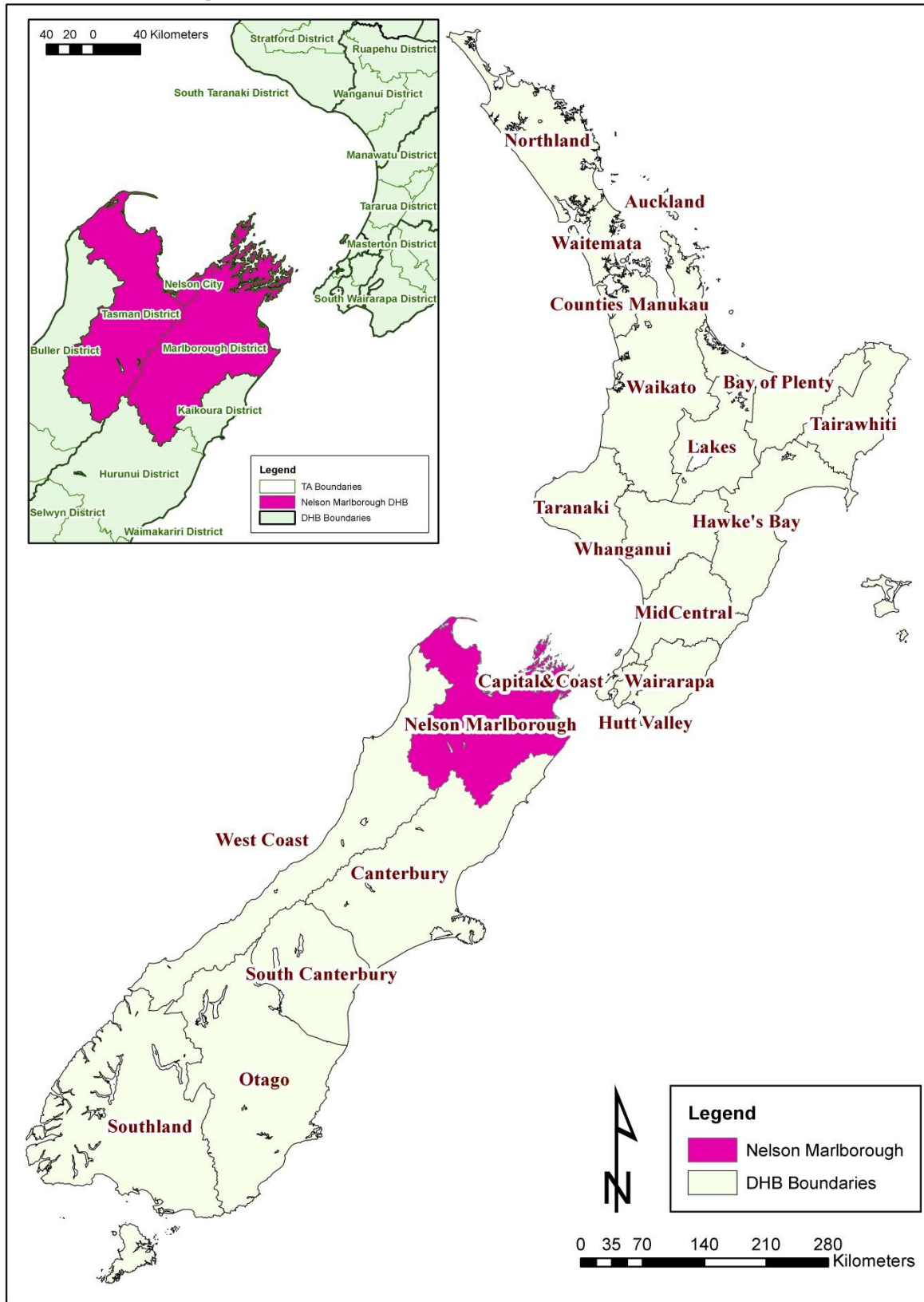
The dark blue shows that the ASR for the total Māori population in the DHB (919.1 per 100,000) is statistically significantly higher than the ASR for the total non-Māori population in the DHB (622.3 per 100,000)

The light blue shows that the ASR for the male Māori population in the DHB (550.1 per 100,000) is statistically significantly lower than the ASR for the male non-Māori population in the DHB (718.4 per 100,000)

The red shows that the ASR for the total population in the DHB (626.8 per 100,000) is statistically significantly higher than the ASR for the total population in NZ (577.2 per 100,000)

The pink shows that the ASR for the total male population in the DHB (721.0 per 100,000) is statistically significantly lower than the ASR for the total male population in NZ (765.7 per 100,000)

## Map of New Zealand District Health Boards



# 1 THE POPULATION

Nelson Marlborough DHB had a population of 133,630 at the last (2006) census, making up approximately 3.2 percent of the total New Zealand population (4,184,580 at the last census). This population is projected to rise to 150,060 by 2026, an increase of 12.3 percent. The New Zealand population is predicted to rise by 19.2 percent over the same period.

## 1.1 Ethnicity

The proportion of people identifying themselves as Māori in Nelson Marlborough DHB is lower than that of New Zealand as a whole, (8.9% compared to 14.6%). This represents 3.6 percent of the New Zealand Māori population (2006 Census).

## 1.2 Population Distribution by Age and Gender

The majority of the Nelson Marlborough DHB population (65.6%) are of working age (15-64 years), this makes up a similar proportion of the population to New Zealand as a whole (66.5%), (Table 1.1). There are fewer young people (aged 0-14 years) and more elderly (aged 65+ years) in the Nelson Marlborough when compared to the New Zealand population. Two distinct population peaks can be seen in the Nelson Marlborough DHB population, at 10-14 years and at 45-49 years, (Figure 1).

It is projected that by 2026, the proportion of the population in the 65+ age group will have increased by 96.7 percent in Nelson Marlborough DHB compared to an increase of 84.5 percent nationally. Populations of both young people and those of working age are predicted to decline, (by 5.8% and 1.3% respectively). Trends for the rest of New Zealand are for modest increases in these two age groups by 4.6 percent and 12.0 percent respectively. The population is also predicted to age with peak population occurring at 65-69 years, (Figure 2).

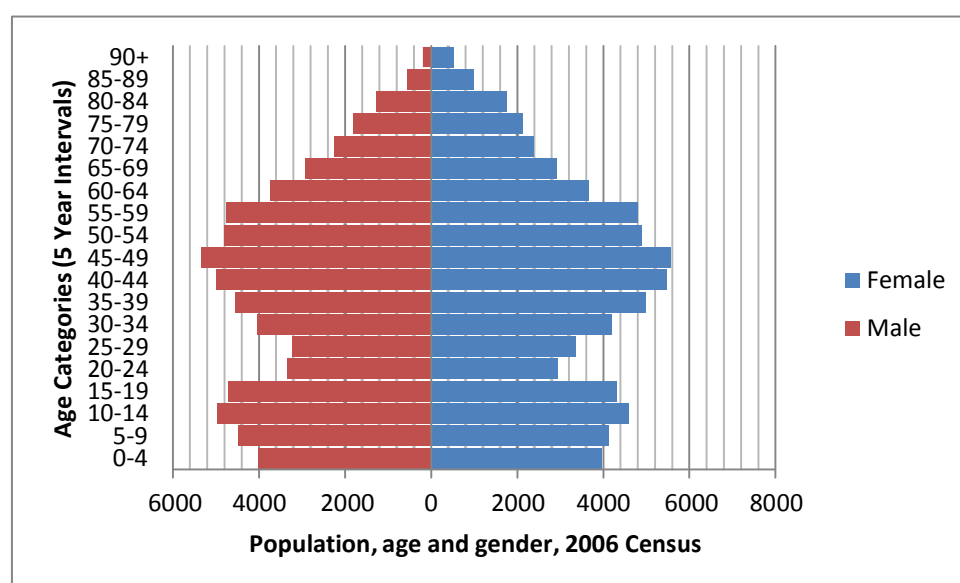
**Table 1.1:** Percentage population, age and gender, 2006 Census, 2026

Location	Age Group	2006(Base Population)			2026 (Projected Population)		
		Male	Female	Total	Male	Female	Total
Nelson Marlborough	0-14	20.4	18.8	19.6	17.0	15.9	16.4
	15-64	65.9	65.4	65.6	58.3	57.0	57.7
	65+	13.7	15.9	14.8	24.7	27.1	25.9
New Zealand	0-14	22.2	20.3	21.2	19.4	17.9	18.6
	15-64	66.6	66.5	66.5	62.7	62.2	62.5
	65+	11.2	13.2	12.2	17.9	19.9	18.9

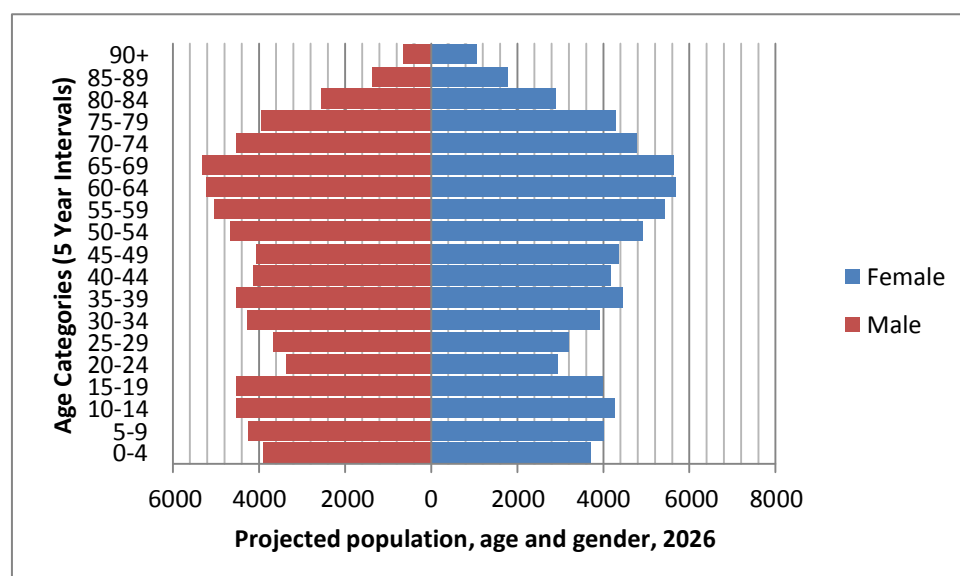
**Table 1.2:** Population change, age and gender, 2006 Census, 2026

Location	Age Group	2006(Base)			2026			Percentage increase 2006-2026		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	0-14	13490	12680	26180	12690	11980	24670	-5.9	-5.5	-5.8
	15-64	43560	44160	87710	43500	43060	86560	-0.1	-2.5	-1.3
	65+	9020	10710	19740	18390	20460	38830	103.9	91.0	96.7
	Total	66070	67550	133630	74580	75500	150060	12.9	11.8	12.3
New Zealand	0-14	454960	433360	888310	477070	451780	928840	4.9	4.3	4.6
	15-64	1364450	1420210	2784650	1545220	1573770	3119010	13.2	10.8	12.0
	65+	228930	282690	511620	440280	503800	944080	92.3	78.2	84.5
	Total	2048340	2136260	4184580	2462570	2529350	4991930	20.2	18.4	19.3

**Figure 1:** Population, age and gender, 2006 Census



**Figure 2:** Projected population, age and gender, 2026

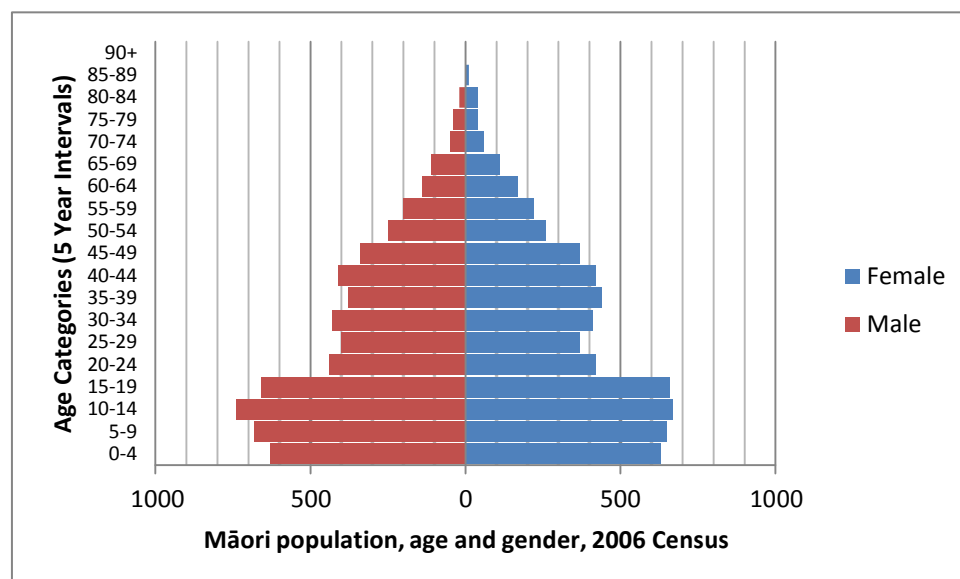




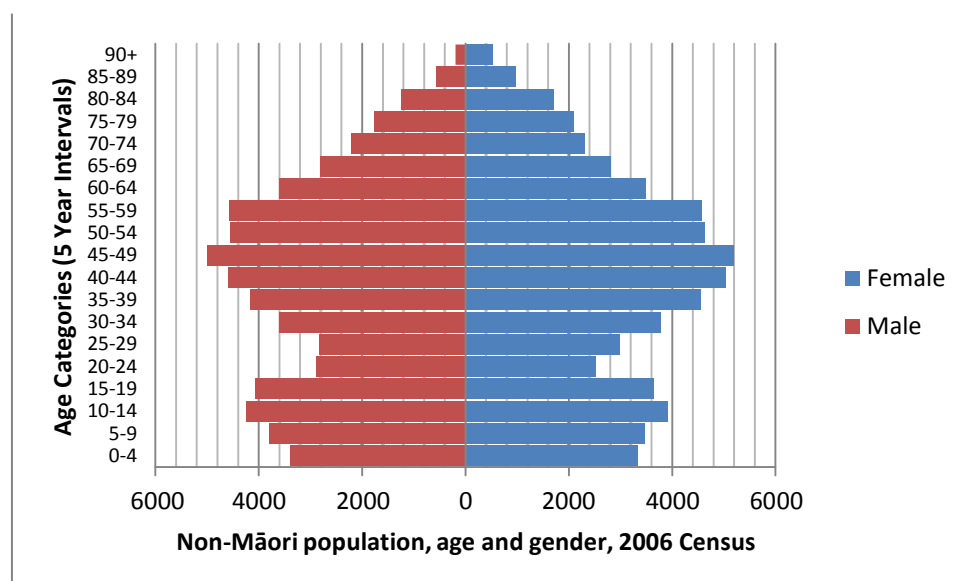
### 1.3 Population Distribution by Ethnicity

The Nelson Marlborough Māori population is younger than both the non-Māori and total Nelson Marlborough populations. The Māori population is dominated by young people (peak population 10-14 years). By comparison the non-Māori population is dominated by those of working age, with a peak population at 45-49 years.

**Figure 3:** Māori population, age and gender, 2006 Census



**Figure 4:** Non-Māori population, age and gender, 2006 Census



Over the period 2006-2026, the Māori population is predicted to increase across all age categories, leading to an overall population increase of 40.2 percent. The greatest increase by far is predicted in the elderly population (253.1%). By comparison the non-Māori population is expected to decline

considerably in both the 0-14 and 15-65 age categories and experience a more modest increase in the elderly population (92.7%).

**Table 1.3:** Māori population change, age and gender, 2006 Census, 2026

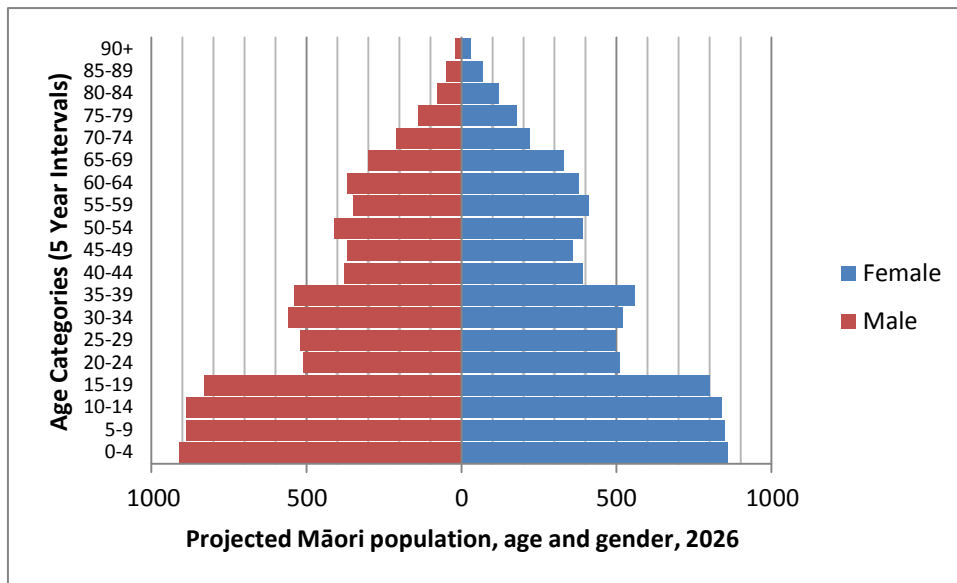
Location	Age Group	2006(Base)			2026			Percentage increase 2006-2026		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	0-14	2050	1950	3990	2690	2550	5240	31.2	30.8	31.3
	15-64	3650	3740	7370	4840	4820	9640	32.6	28.9	30.8
	65+	220	260	490	800	950	1730	263.6	265.4	253.1
	Total	5920	5950	11850	8330	8320	16610	40.7	39.8	40.2
New Zealand	0-14	110480	104810	215310	132290	125860	258150	19.7	20.1	19.9
	15-64	183640	199700	383320	236750	246600	483350	28.9	23.5	26.1
	65+	11680	14010	25710	30830	38330	69150	164.0	173.6	169.0
	Total	305800	318520	624340	399870	410790	810650	30.8	29.0	29.8

**Table 1.4:** Non-Māori population change, age and gender, 2006 Census, 2026

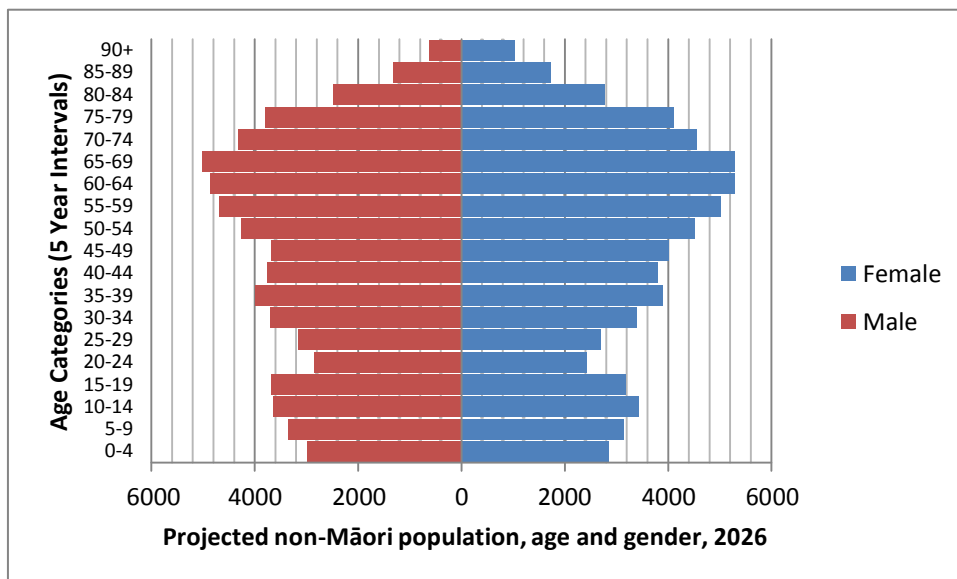
Location	Age Group	2006(Base)			2026			Percentage increase 2006-2026		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	0-14	11440	10730	22190	10000	9430	19430	-12.6	-12.1	-12.4
	15-64	39910	40420	80340	38660	38240	76920	-3.1	-5.4	-4.3
	65+	8800	10450	19250	17590	19510	37100	99.9	86.7	92.7
	Total	60150	61600	121780	66250	67180	133450	10.1	9.1	9.6
New Zealand	0-14	344480	328550	673000	344780	325920	670690	0.1	-0.8	-0.3
	15-64	1180810	1220510	2401330	1308470	1327170	2635660	10.8	8.7	9.8
	65+	217250	268680	485910	409450	465470	874930	88.5	73.2	80.1
	Total	1742540	1817740	3560240	2062700	2118560	4181280	18.4	16.5	17.4

Despite the largest population increase occurring in the 65+ age group, the predicted Māori population in 2026 is still dominated by young people, with the peak population falling to 0-4 years. Over the same period the non-Māori population ages, and peak population rises to 65-69 years.

**Figure 5:** Projected Māori population, age and gender, 2026



**Figure 6:** Projected non-Māori population, age and gender, 2026



## 2 SOCIAL DETERMINANTS OF HEALTH

The World Health Organisation defines the social determinants of health as:

*“..The circumstances, in which people are born, grow up, live, work and age, and the systems put in place to deal with illness. These circumstances are in turn shaped by a wider set of forces: economics, social policies, and politics”, (World Health Organisation, 2008).*

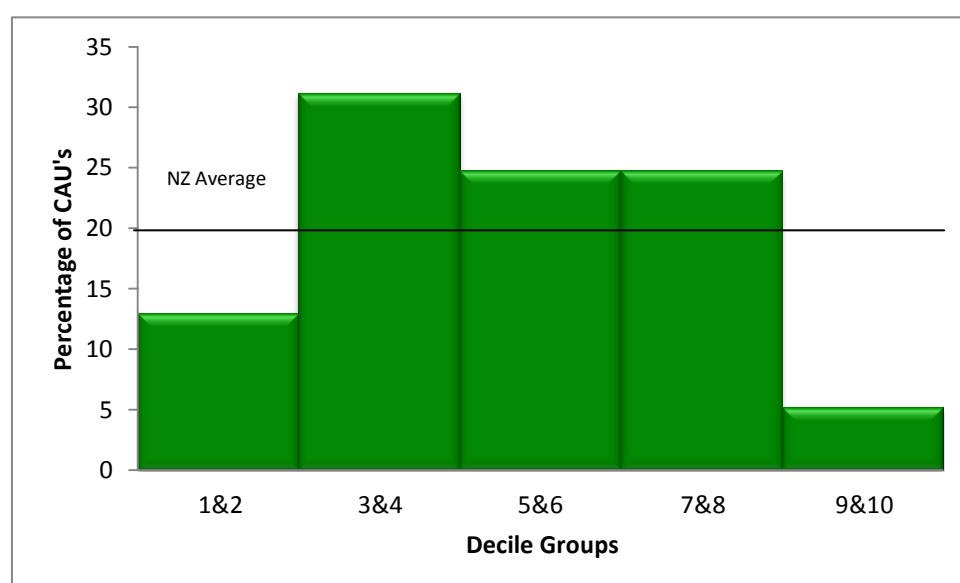
The following section examines social and economic determinants of health through the New Zealand Index of Deprivation and through some of the individual indicators used to determine ‘deprivation’ in New Zealand.

### 2.1 The New Zealand Index of Deprivation (NZDep06)

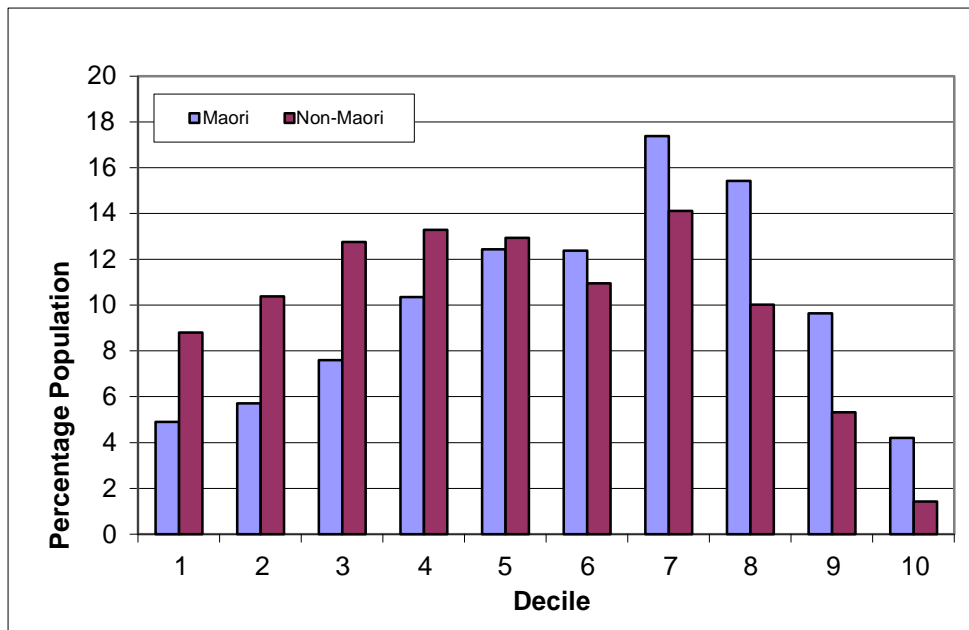
The New Zealand Index of Deprivation (NZDep06) provides a numerical rating of socio economic status by small area unit. This is based on nine indicators taken from the 2006 Census and across eight dimensions of deprivation. The numerical scale is divided into population deciles with 1 representing the least deprived and 10 representing the most deprived, (Salmond, Crampton, & Atkinson, 2007).

In Nelson Marlborough DHB the distribution of communities amongst the NZDep06 deprivation deciles is dominated by the middle deciles. Whilst non-Māori show no trends in distribution, but are more dominant in the lower deprivation deciles, the proportion of Māori population in each deprivation decile generally increases with increasing levels of deprivation up to decile 7, then declines.

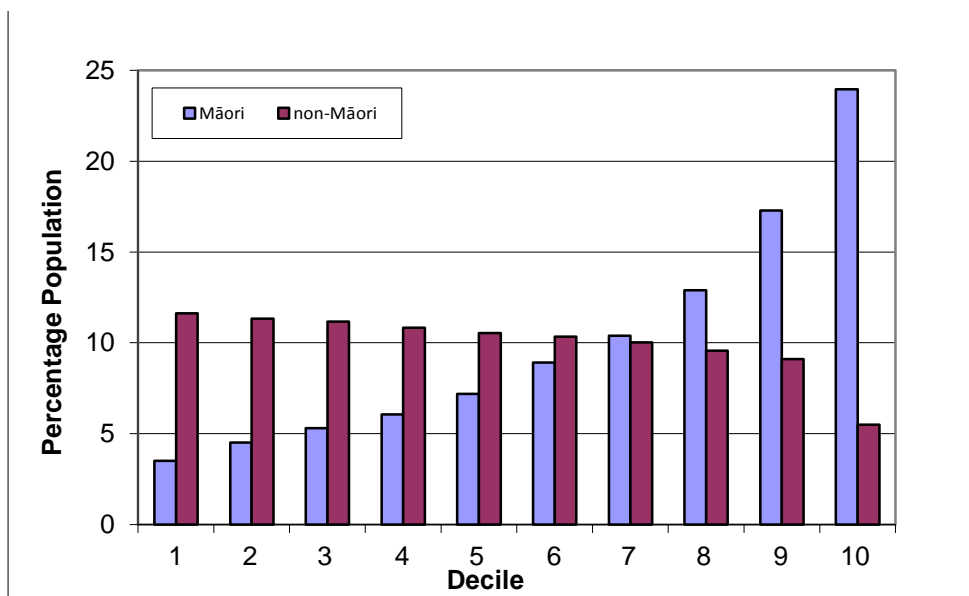
**Figure 7:** Distribution of Nelson Marlborough DHB Area Units across NZDep06 Decile Groups, 2006 Census



**Figure 8:** Nelson Marlborough DHB population, ethnicity and NZDep06 Decile



**Figure 9:** New Zealand population, ethnicity and NZDep06 Decile



## 2.2 Education

The population of Nelson Marlborough DHB has a lower proportion of university graduates (degree level and above) (10.3%), compared to the New Zealand population (14.2%). It also has a slightly higher proportion of people with no qualifications (24.5% compared to 22.4% for New Zealand).

## 2.3 Income

The Nelson Marlborough DHB population has a lower proportion of the population earning over \$30,000 in personal income; 33.9 percent compared to 37.3 percent for New Zealand. This represents a lower proportion of people earning around or above the average annual personal income in New Zealand, which stood at \$33,189 in 2006/07 (Statistics New Zealand, 2012).

## 2.4 Employment

The employment rate for the Nelson Marlborough DHB population is slightly higher than that for New Zealand (96.9% compared to 94.9%). In terms of type of employment, there is a slightly lower proportion of professionals and managers in the Nelson Marlborough (32.3% compared to 36.0% nationally) and a much higher proportion of labourers (18.1% compared to 11.0% nationally).

## 2.5 Housing Tenure

More people own or part own their own home and fewer people rent in Nelson Marlborough DHB compared to New Zealand.

**Table 2.1:** Proportion of DHB households, housing tenure, 2006 Census

	Unit	Total, dwelling owned or partly owned by usual resident(s)	Total, dwelling not owned or partly owned by usual resident(s)	Total, dwelling held in a family trust by usual resident(s)	Not elsewhere included	Total
Nelson Marlborough	Number	28563	13167	5784	2646	50157
	Percentage	56.9	26.3	11.5	5.3	100.0
New Zealand	Number	743955	451965	167925	90333	1454178
	Percentage	51.2	31.1	11.6	6.2	100.0

## 2.6 Communications and Transport

Access to telecommunications in Nelson Marlborough is similar to national levels.

Access to a motor vehicle is slightly better in Nelson Marlborough DHB compared to national levels. Only 6.2 percent of the Nelson Marlborough population have no access to a motor vehicle compared to 7.7 percent nationally.

### 3 HEALTH STATUS

An understanding of the general health status of a population is important for ensuring the provision of adequate health services. This information is also important for determining priority issues for the District Health Board. This chapter presents information about health status for people living in the Nelson Marlborough DHB district, in comparison to all New Zealanders.

#### Key points

- Three of the top five leading causes of avoidable mortality were the same for Māori and non-Māori. These were ischaemic heart disease, lung cancer, and suicide. COPD was leading cause for Māori while motor vehicle accidents and birth defects were leading causes for non-Māori.
- Respiratory infections, dental conditions, ENT infections, gastroenteritis, and angina were the top five leading causes of avoidable hospitalisations for both Māori and non-Māori. In the Nelson Marlborough DHB, angina was a leading cause for women while obstructed hernia was a leading cause for men.
- Dental conditions was a leading cause for Māori children 0-4 years while respiratory and cardiovascular disorders specific to the perinatal period was a leading cause for non-Māori children.
- Asthma and cellulitis were two of the top five leading causes for Māori children while injuries to the elbow and forearm and injuries to the head were leading causes for non-Māori children.
- Lung cancer, stroke, ischaemic heart disease, and COPD were four of the top five leading causes for older Māori and non-Māori people. In the Nelson Marlborough DHB, breast cancer was a leading cause for women while COPD was a leading cause for men.
- The leading causes of hospitalisations varied for older Māori and non-Māori people in the Nelson Marlborough DHB. Respiratory infections, COPD, and other diseases of intestines were leading causes for older Māori people while skin cancers, ischaemic heart disease, and other forms of heart disease were leading causes for older non-Māori people.
- The rate of ischaemic heart disease hospitalisation was statistically significantly higher for the Nelson Marlborough DHB than the national rate.
- The rate of COPD hospitalisation for Māori was statistically significantly higher than that for non-Māori however the hospitalisation rate for the Nelson Marlborough DHB was statistically significantly lower than the national rate.
- The rate of cancer hospitalisations (including melanoma and prostate cancer) for the Nelson Marlborough DHB was statistically significantly higher than the national rate. The hospitalisation rate for melanoma was however lower for Māori than non-Māori.
- The hospitalisation rates for diabetes and renal failure for the Nelson Marlborough DHB was statistically significantly lower than the national rate.
- The rates of hospitalisation for asthma and falls for children under 15 years of age were statistically significantly lower than the national rate.

### 3.1 Avoidable Mortality

Overall, the avoidable mortality rate for Nelson Marlborough DHB did not differ between Māori and non-Māori (Table 3.1).

**Table 3.1:** Avoidable mortality, 0-74 years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori			non-Māori			Total		
		ASR	95% confidence		ASR	95% confidence		ASR	95% confidence	
Nelson/Marlborough	Female	179.0	-124.1	- 482.1	79.7	16.1	- 143.3	84.9	23.7	- 146.1
	Male	219.2	-133.5	- 571.8	127.2	48.5	- 205.8	131.5	56.6	- 206.4
	Total	197.9	-33.0	- 428.7	103.2	52.7	- 153.6	107.9	59.7	- 156.2
New Zealand	Female	214.6	168.7	- 260.5	74.2	63.5	- 84.8	88.9	78.2	- 99.6
	Male	308.9	251.4	- 366.5	122.9	109.1	- 136.7	142.4	128.6	- 156.1
	Total	259.8	223.3	- 296.3	98.1	89.4	- 106.8	115.1	106.4	- 123.8

### 3.2 Leading Causes of Avoidable Mortality

Three of the top five leading causes of avoidable mortality were the same for Māori and non-Māori (Table 3.2). These were ischaemic heart disease, lung cancer, and suicide. COPD was leading cause for Māori while motor vehicle accidents and birth defects were leading causes for non-Māori.

**Table 3.2:** Leading causes of avoidable mortality, ethnicity, 0-74 years, 2006-08

	Nelson/Marlborough DHB		New Zealand	
	Condition	Rank	Condition	Rank
Māori	Ischaemic heart disease	1	Ischaemic heart disease	1
	Lung cancer	2	Lung cancer	2
	Suicide and self-inflicted injuries	3	Diabetes	3
	COPD	4	Motor vehicle accidents	4
	*	5	Suicide and self-inflicted injuries	5
non-Māori	Ischaemic heart disease	1	Ischaemic heart disease	1
	Suicide and self-inflicted injuries	2	Suicide and self-inflicted injuries	2
	Motor vehicle accidents	3	Lung cancer	3
	Birth defects	4	Motor vehicle accidents	4
	Lung cancer	5	Colorectal cancer	5

Note: COPD=chronic obstructive pulmonary disease

\*Leading causes are only listed where the number of deaths is greater than or equal to five. An asterisk (\*) indicates that leading cause information is not available because of insufficient numbers.

Four of the top five leading causes of avoidable mortality in the Nelson Marlborough DHB were the same as those nationally (Table 3.3). Breast cancer and colorectal were leading causes for women while ischaemic heart disease and diabetes were leading causes for men.



**Table 3.3:** Leading causes of avoidable mortality, gender, 0-74 years, 2006-08

	Nelson/Marlborough DHB		New Zealand	
	Condition	Rank	Condition	Rank
Female	Breast cancer (female only)	1	Breast cancer (female only)	1
	Colorectal cancer	2	Lung cancer	2
	Suicide and self-inflicted injuries	3	Ischaemic heart disease	3
	Lung cancer	4	Colorectal cancer	4
	Motor vehicle accidents	5	Diabetes	5
Male	Ischaemic heart disease	1	Ischaemic heart disease	1
	Suicide and self-inflicted injuries	2	Suicide and self-inflicted injuries	2
	Motor vehicle accidents	3	Motor vehicle accidents	3
	Lung cancer	4	Lung cancer	4
	Diabetes	5	Diabetes	5
Total	Ischaemic heart disease	1	Ischaemic heart disease	1
	Suicide and self-inflicted injuries	2	Suicide and self-inflicted injuries	2
	Motor vehicle accidents	3	Lung cancer	3
	Lung cancer	4	Motor vehicle accidents	4
	Colorectal cancer	5	Diabetes	5

### 3.3 Avoidable Hospitalisations

There was no statistically significant difference in the rate of avoidable hospitalisations for Māori and non-Māori in the Nelson Marlborough DHB (Table 3.4).

**Table 3.4:** Avoidable hospitalisations, 0-74 years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori			non-Māori			Total					
		ASR	95% confidence		ASR	95% confidence		ASR	95% confidence				
Nelson/Marlborough	Female	3688.6	2184.1	-	5193.0	2897.1	2384.4	-	3409.8	2972.8	2491.3	-	3454.2
	Male	3936.4	2363.1	-	5509.8	3493.0	2939.3	-	4046.7	3554.5	3034.7	-	4074.3
	Total	3813.5	2725.4	-	4901.7	3197.4	2819.8	-	3575.0	3265.7	2911.2	-	3620.2
New Zealand	Female	4904.4	4671.6	-	5137.1	3156.7	3061.1	-	3252.3	3408.8	3321.6	-	3496.1
	Male	4974.2	4736.0	-	5212.5	3535.8	3435.8	-	3635.9	3746.4	3655.7	-	3837.2
	Total	4946.3	4779.6	-	5112.9	3347.1	3277.8	-	3416.3	3578.9	3516.0	-	3641.9

### 3.4 Leading Causes of Avoidable Hospitalisations

Respiratory infections, dental conditions, ENT infections, gastroenteritis, and angina were the top five leading causes of avoidable hospitalisations for both Māori and non-Māori (Table 3.5).

**Table 3.5:** Leading causes of avoidable hospitalisations, ethnicity, 0-74 years, 2007-09

	Nelson/Marlborough DHB		New Zealand	
	Condition	Rank	Condition	Rank
Māori	Dental conditions	1	Respiratory infections	1
	Respiratory infections	2	Dental conditions	2
	ENT infections	3	Asthma	3
	Asthma	4	ENT infections	4
	Gastroenteritis	5	Angina	5
non-Māori	Respiratory infections	1	Respiratory infections	1
	Dental conditions	2	Gastroenteritis	2
	Gastroenteritis	3	ENT infections	3
	ENT infections	4	Dental conditions	4
	Angina	5	Angina	5

Note: ENT infections= ear, nose and throat infections

The leading causes of avoidable hospitalisations in the Nelson Marlborough DHB were the same as those nationally (Table 3.6). Angina was a leading cause for women while obstructed hernia was a leading cause for men.

**Table 3.6:** Leading causes of avoidable hospitalisations, gender, 0-74 years, 2007-09

	Nelson/Marlborough DHB		New Zealand	
	Condition	Rank	Condition	Rank
Female	Respiratory infections	1	Respiratory infections	1
	Dental conditions	2	Gastroenteritis	2
	Gastroenteritis	3	Dental conditions	3
	ENT infections	4	ENT infections	4
	Angina	5	Cellulitis	5
Male	Dental conditions	1	Respiratory infections	1
	Respiratory infections	2	Gastroenteritis	2
	Gastroenteritis	3	ENT infections	3
	ENT infections	4	Dental conditions	4
	Obstructed hernia	5	Angina	5
Total	Respiratory infections	1	Respiratory infections	1
	Dental conditions	2	Gastroenteritis	2
	Gastroenteritis	3	Dental conditions	3
	ENT infections	4	ENT infections	4
	Angina	5	Angina	5

Note: ENT infections= ear, nose and throat infections

### 3.5 Unintentional Injury Mortality

There was no statistically significant difference in the rate of unintentional injury mortality rate for Māori and non-Māori (Table 3.7).

**Table 3.7:** Unintentional injury mortality, all ages, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori			non-Māori			Total		
		ASR	95% confidence		ASR	95% confidence		ASR	95% confidence	
Nelson/Marlborough	Female	25.7	-93.6	- 145.1	10.9	-21.6	- 43.3	13.0	-19.2	- 45.3
	Male	37.4	-109.4	- 184.2	26.1	-15.8	- 68.0	27.2	-13.1	- 67.6
	Total	31.5	-62.8	- 125.7	18.3	-7.9	- 44.5	19.9	-5.6	- 45.5
New Zealand	Female	21.2	6.0	- 36.3	7.8	3.8	- 11.8	10.4	6.0	- 14.7
	Male	49.1	25.2	- 73.0	21.6	14.8	- 28.5	26.1	19.1	- 33.0
	Total	34.5	20.7	- 48.4	14.6	10.7	- 18.6	18.1	14.0	- 22.2

### 3.6 Unintentional Injury Hospitalisations

The unintentional injury hospitalisation rate for Nelson Marlborough DHB did not differ between Māori and non-Māori (Table 3.8).

**Table 3.8:** Unintentional injury hospitalisation, all ages, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori			non-Māori			Total		
		ASR	95% confidence		ASR	95% confidence		ASR	95% confidence	
Nelson/Marlborough	Female	847.9	129.6	- 1566.3	924.4	644.6	- 1204.2	918.3	660.2	- 1176.5
	Male	1568.2	591.4	- 2545.0	1848.9	1456.4	- 2241.3	1820.3	1457.8	- 2182.7
	Total	1214.4	604.8	- 1824.0	1395.5	1152.7	- 1638.4	1377.4	1153.3	- 1601.5
New Zealand	Female	1344.0	1220.6	- 1467.5	1133.4	1077.2	- 1189.6	1174.8	1124.1	- 1225.5
	Male	2485.9	2315.3	- 2656.6	2015.8	1942.3	- 2089.3	2095.7	2028.9	- 2162.6
	Total	1900.9	1796.5	- 2005.3	1575.3	1529.0	- 1621.6	1634.3	1592.4	- 1676.3

## 3.7 Child Health (0-14 years)

### 3.7.1 Leading causes of hospitalisations for children 0-4 years by ethnicity

Four of the top five leading causes of hospitalisations for children 0-4 years of age in the Nelson Marlborough DHB were the same for Māori and non-Māori (Table 3.9). These were respiratory infections, ENT infections, gastro-oesophageal reflux disease, and disorders related to length of gestation and fetal growth.

**Table 3.9:** Leading causes of hospitalisations, ethnicity, 0-4 years, 2007-09

	Nelson/Marlborough DHB		New Zealand	
	Condition	Rank	Condition	Rank
Māori	Respiratory infections	1	Respiratory infections	1
	Dental conditions	2	*Persons encountering health services in other circumstances	2
	Gastro-oesophageal reflux disease	3	Disorders related to length of gestation and fetal growth	3
	Disorders related to length of gestation and fetal growth	4	Gastro-oesophageal reflux disease	4
	ENT infections	5	ENT infections	5
non-Māori	Respiratory infections	1	Persons encountering health services in other circumstances	1
	Gastro-oesophageal reflux disease	2	Respiratory infections	2
	Disorders related to length of gestation and fetal growth	3	Disorders related to length of gestation and fetal growth	3
	ENT infections	4	Gastro-oesophageal reflux disease	4
	Respiratory and cardiovascular disorders specific to the perinatal period	5	ENT infections	5

Note: ENT infections= ear, nose and throat infections

\*Persons encountering health services in other circumstances (Z70-Z76). For example, health supervision and care of other healthy infant and child.

### 3.7.2 Leading causes of hospitalisations for children 0-4 years by gender

Four of the top five leading causes of hospitalisations for children 0-4 years in the Nelson Marlborough DHB were the same as those nationally (Table 3.10). The leading causes were the same for boys and girls.

**Table 3.10:** Leading causes of hospitalisations, gender, 0-4 years, 2007-09

	Nelson/Marlborough DHB		New Zealand	
	Condition	Rank	Condition	Rank
Female	Respiratory infections	1	*Persons encountering health services in other circumstances	1
	Disorders related to length of gestation and fetal growth	2	Respiratory infections	2
	Gastro-oesophageal reflux disease	3	Disorders related to length of gestation and fetal growth	3
	ENT infections	4	Gastro-oesophageal reflux disease	4
	Dental conditions	5	ENT infections	5
Male	Respiratory infections	1	Respiratory infections	1
	Gastro-oesophageal reflux disease	2	Persons encountering health services in other circumstances	2
	Disorders related to length of gestation and fetal growth	3	Disorders related to length of gestation and fetal growth	3
	ENT infections	4	Gastro-oesophageal reflux disease	4
	Dental conditions	5	ENT infections	5
Total	Respiratory infections	1	Respiratory infections	1
	Gastro-oesophageal reflux disease	2	Persons encountering health services in other circumstances	2
	Disorders related to length of gestation and fetal growth	3	Disorders related to length of gestation and fetal growth	3
	ENT infections	4	Gastro-oesophageal reflux disease	4
	Dental conditions	5	ENT infections	5

Note: ENT infections= ear, nose and throat infections

\*Persons encountering health services in other circumstances (Z70-Z76). For example, health supervision and care of other healthy infant and child.

### 3.7.3 Leading causes of hospitalisations for children 5-14 years by ethnicity

Dental conditions, respiratory infections, and ENT infections were leading causes for both Māori and non-Māori children 5-14 years (Table 3.11). Asthma and cellulitis were leading causes for Māori children while injuries to the elbow and forearm and injuries to the head were leading causes for non-Māori children.

**Table 3.11:** Leading causes of hospitalisations, ethnicity, 5-14 years, 2007-09

	Nelson/Marlborough DHB		New Zealand	
	Condition	Rank	Condition	Rank
Māori	Dental conditions	1	Dental conditions	1
	*Persons encountering health services for specific procedures and health care	2	Respiratory infections	2
	ENT infections	3	ENT infections	3
	Respiratory infections	4	Injuries to the elbow and forearm	4
	Asthma	5	Persons encountering health services for specific procedures and health care	5
non-Māori	Dental conditions	1	Respiratory infections	1
	Respiratory infections	2	Dental conditions	2
	ENT infections	3	Injuries to the elbow and forearm	3
	Injuries to the elbow and forearm	4	ENT infections	4
	Injuries to the head	5	Persons encountering health services for specific procedures and health care	5

Note: ENT infections= ear, nose and throat infections

\* Persons encountering health services for specific procedures and health care (Z40-Z54) - are intended for use to indicate a reason for care. They may be used for patients who have already been treated for a disease or injury, but who are receiving follow-up or prophylactic care, convalescent care, or care to consolidate the treatment, to deal with residual states, to ensure that the condition has not recurred, or to prevent recurrence.

### 3.7.4 Leading causes of hospitalisations for children 5-14 years by gender

Four of the top five leading causes of hospitalisations for children 5-14 years of age in the Nelson Marlborough DHB were the same as those in New Zealand (Table 3.12). These were respiratory infections, dental conditions, ENT infections, and injuries to the elbow and forearm.

**Table 3.12:** Leading causes of hospitalisations, gender, 5-14 years, 2007-09

	Nelson/Marlborough DHB		New Zealand	
	Condition	Rank	Condition	Rank
Female	Dental conditions	1	Dental conditions	1
	Respiratory infections	2	Respiratory infections	2
	ENT infections	3	ENT infections	3
	Injuries to the elbow and forearm	4	Injuries to the elbow and forearm	4
	*Persons encountering health services for specific procedures and health care	5	Persons encountering health services for specific procedures and health care	5
Male	Dental conditions	1	Dental conditions	1
	Respiratory infections	2	Respiratory infections	2
	ENT infections	3	Injuries to the elbow and forearm	3
	Injuries to the elbow and forearm	4	ENT infections	4
	Injuries to the head	5	Injuries to the head	5
Total	Dental conditions	1	Dental conditions	1
	Respiratory infections	2	Respiratory infections	2
	ENT infections	3	Injuries to the elbow and forearm	3
	Injuries to the elbow and forearm	4	ENT infections	4
	Injuries to the head	5	Persons encountering health services for specific procedures and health care	5

Note: ENT infections= ear, nose and throat infections

\* Persons encountering health services for specific procedures and health care (Z40-Z54) - are intended for use to indicate a reason for care. They may be used for patients who have already been treated for a disease or injury, but who are receiving follow-up or prophylactic care, convalescent care, or care to consolidate the treatment, to deal with residual states, to ensure that the condition has not recurred, or to prevent recurrence.

## 3.8 Older People's Health (65+ years)

### 3.8.1 Older people, leading causes of mortality, 65+ years by ethnicity

Four of the top five leading causes of mortality for older Māori and non-Māori people were similar (Table 3.13). These were lung cancer, stroke, ischaemic heart disease, and COPD.

**Table 3.13:** Leading causes of mortality, ethnicity, 65+ years, 2006-08

	Nelson/Marlborough DHB		New Zealand	
	Condition	Rank	Condition	Rank
Māori	Lung cancer	1	Ischaemic heart disease	1
	Stroke	2	Lung cancer	2
	Ischaemic heart disease	3	COPD	3
	COPD	4	Diabetes	4
	*	5	Stroke	5
non-Māori	Ischaemic heart disease	1	Ischaemic heart disease	1
	Stroke	2	Stroke	2
	Colorectal cancer	3	COPD	3
	COPD	4	Lung cancer	4
	Lung cancer	5	Colorectal cancer	5

Note: COPD=chronic obstructive pulmonary disease

\*Leading causes are only listed where the number of deaths is greater than or equal to five. An asterisk (\*) indicates that leading cause information is not available because of insufficient numbers.

### 3.8.2 Older people, leading causes of mortality, 65+ years by gender

The leading causes of mortality for older people in the Nelson Marlborough DHB were the same as those nationally: ischaemic heart disease, COPD, lung cancer, stroke, and colorectal cancer (Table 3.14). Breast cancer was a leading cause for women while COPD was a leading cause for men.

**Table 3.14:** Leading causes of mortality, gender, 65+ years, 2006-08

	Nelson/Marlborough DHB		New Zealand	
	Condition	Rank	Condition	Rank
Female	Ischaemic heart disease	1	Ischaemic heart disease	1
	Stroke	2	Stroke	2
	Colorectal cancer	3	COPD	3
	Lung cancer	4	Lung cancer	4
	Breast cancer (female only)	5	Colorectal cancer	5
Male	Ischaemic heart disease	1	Ischaemic heart disease	1
	Stroke	2	Lung cancer	2
	COPD	3	COPD	3
	Lung cancer	4	Stroke	4
	Colorectal cancer	5	Colorectal cancer	5
Total	Ischaemic heart disease	1	Ischaemic heart disease	1
	Stroke	2	Stroke	2
	COPD	3	COPD	3
	Colorectal cancer	4	Lung cancer	4
	Lung cancer	5	Colorectal cancer	5

Note: COPD=chronic obstructive pulmonary disease



### 3.8.3 Older people, leading causes hospitalisation, 65+ years by ethnicity

The leading causes of hospitalisations varied for older Māori and non-Māori people in the Nelson Marlborough DHB (Table 3.15). Respiratory infections, COPD, and other diseases of intestines were leading causes for older Māori people while skin cancers, ischaemic heart disease, and other forms of heart disease were leading causes for older non-Māori people.

**Table 3.15:** Leading causes of hospitalisations, ethnicity, 65+ years, 2007-09

	Nelson/Marlborough DHB		New Zealand	
	Condition	Rank	Condition	Rank
Māori	Angina	1	Persons encountering health services for specific procedures and health care	1
	Respiratory infections	2	COPD	2
	*Persons encountering health services for specific procedures and health care	3	Respiratory infections	3
	COPD	4	Diabetes	4
	Other diseases of intestines	5	Angina	5
non-Māori	Angina	1	Persons encountering health services for specific procedures and health care	1
	Skin cancers	2	Angina	2
	Ischaemic heart disease	3	Respiratory infections	3
	Persons encountering health services for specific procedures and health care	4	Ischaemic heart disease	4
	Other forms of heart disease	5	Other forms of heart disease	5

Note: COPD=chronic obstructive pulmonary disease

\* Persons encountering health services for specific procedures and health care (Z40-Z54) - are intended for use to indicate a reason for care. They may be used for patients who have already been treated for a disease or injury, but who are receiving follow-up or prophylactic care, convalescent care, or care to consolidate the treatment, to deal with residual states, to ensure that the condition has not recurred, or to prevent recurrence.

### 3.8.4 Older people, leading causes of hospitalisation, 65+ years by gender

Table 3.16 shows that four of the top five leading causes of hospitalisations for older people in the Nelson Marlborough DHB were the same as those for New Zealand in total. These were angina, respiratory infections, other forms of heart disease, and ischaemic heart disease.

**Table 3.16:** Leading causes of hospitalisations, gender, 65+ years, 2007-09

	Nelson/Marlborough DHB		New Zealand	
	Condition	Rank	Condition	Rank
Female	Angina	1	Persons encountering health services for specific procedures and health care	1
	Skin cancers	2	Angina	2
	Disorders of lens	3	Respiratory infections	3
	Other forms of heart disease	4	COPD	4
	Respiratory infections	5	Other forms of heart disease	5
Male	Angina	1	Persons encountering health services for specific procedures and health care	1
	*Persons encountering health services for specific procedures and health care	2	Angina	2
	Ischaemic heart disease	3	Respiratory infections	3
	Skin cancers	4	Ischaemic heart disease	4
	Other forms of heart disease	5	Other forms of heart disease	5
Total	Angina	1	Persons encountering health services for specific procedures and health care	1
	Skin cancers	2	Angina	2
	Ischaemic heart disease	3	Respiratory infections	3
	Persons encountering health services for specific procedures and health care	4	Ischaemic heart disease	4
	Other forms of heart disease	5	Other forms of heart disease	5

Note: COPD=chronic obstructive pulmonary disease

\* Persons encountering health services for specific procedures and health care (Z40-Z54) - are intended for use to indicate a reason for care. They may be used for patients who have already been treated for a disease or injury, but who are receiving follow-up or prophylactic care, convalescent care, or care to consolidate the treatment, to deal with residual states, to ensure that the condition has not recurred, or to prevent recurrence.

### **3.9 Other Health Conditions**

Further data on other conditions in Nelson Marlborough DHB are available in the appendices 2-4. Key points are listed here.

#### **3.9.1 Chronic conditions**

The hospitalisation rate for ischaemic heart disease in the Nelson Marlborough DHB was statistically significantly higher than the national rate (Appendix 3: Table 3.1.3).

The rate of COPD hospitalisation for Māori was statistically significantly higher than that for non-Māori however the hospitalisation rate for the Nelson Marlborough DHB was statistically significantly lower than the national rate (Appendix 3: Table 3.1.27).

The rate of all cancer hospitalisations for the Nelson Marlborough DHB was statistically significantly higher than the national rate (Appendix 3: Table 3.1.5). Similar results were also found for prostate cancer (Appendix 3: Table 3.1.8) and melanoma (Appendix 3: Table 3.1.11). However, the hospitalisation rate for melanoma was statistically significantly lower for Māori than non-Māori.

#### **3.9.2 Diabetes**

The hospitalisation rates for diabetes (Appendix 3: Table 3.1.24) and renal failure (Appendix 3: Table 3.1.25) for the Nelson Marlborough DHB were statistically significantly lower than the national rate.

#### **3.9.3 Other conditions**

The unintentional injury hospitalisation rate in the Nelson Marlborough DHB was statistically significantly lower for women compared to women in New Zealand (Appendix 3: Table 3.1.14).

The asthma hospitalisation rate was also statistically significantly lower for the Nelson Marlborough DHB compared to that observed nationally (Appendix 3: Table 3.1.26). Similar results were also found for the 0-14 year age group (Appendix 3: Table 3.1.28).

The rate of admissions for falls for children under 15 years of age was also statistically significantly lower than the national rate (Appendix 3: Table 3.1.31).

## 4 HEALTH SERVICE UTILISATION

New Zealanders have access to a variety of health care workers and services in the health and disability sector. This chapter presents information on the use of these services within the Nelson Marlborough DHB compared to the national experience.

Information about service utilisation is an important part of understanding the need and demand for health and disability services. This information, when considered in relation to information in other chapters of this HNA, provides evidence for decision making on DHB priorities for health and disability services.

Recent data was only available for a small number of measures, these being immunisation and screening.

### Key points

- In the Nelson Marlborough DHB, 81.5 percent of Māori children had received all specified immunisation vaccines by the age of two, which was lower than the non-Māori rate but higher than the Māori national rate.
- Over half of Māori people aged 65 years and over either received an influenza vaccine, or had an agreement made by a primary health provider to receive an influenza vaccine in the past 12 months.
- The breast cancer screening coverage rate for Māori women was lower than that for non-Māori women (79.8%) and higher than the rate for Māori women in New Zealand (51.5%).
- Of Māori women aged 20 to 69 years in the DHB who had a primary health care provider, 49.6 percent had a cervical smear in the past three years which was lower than both the non-Māori percentage and the rate for Māori women in New Zealand.

## 4.1 Immunisation Coverage at 2 Years

Fully immunised at age two years means that a child has received the vaccinations scheduled for ages 6 weeks, 3 months, 5 months and 15 months.

In the Nelson Marlborough DHB, 81.5 percent of Māori children had received all specified immunisation vaccines by the age of two, which was lower than the non-Māori rate but higher than the Māori national rate (Table 4.1). The coverage rate was also higher for Nelson Marlborough DHB (82.8%) than that observed nationally.

**Table 4.1:** Full immunisation coverage at two years, percent, ethnicity, 2009-10

DHB	Māori	non-Māori	Total
Nelson-Marlborough DHB	81.5%	83.0%	82.8%
New Zealand	72.0%	79.4%	77.7%

## 4.2 Influenza Vaccine Coverage at 65+ Years

In the Nelson Marlborough DHB, over half of Māori people aged 65 years and over either received an influenza vaccine, or had an agreement made by a primary health provider to receive an influenza vaccine in the past 12 months (Table 4.2). This rate was lower than the non-Māori rate. The coverage rate was also similar for the Nelson Marlborough DHB and New Zealand in total.

**Table 4.2:** Influenza vaccinations in the last 12 months, 65+ years, percent, ethnicity, 2009-10

DHB	Māori	non-Māori	Total
Nelson-Marlborough DHB	54.0%	58.1%	60.0%
New Zealand	54.4%	60.9%	60.5%

## 4.3 Breast Cancer Screening

Of women in the Nelson Marlborough DHB aged 50-64 years, 79.0 percent had a mammogram to check for early signs of breast cancer in the past two years, which was higher than the national percentage (63.7%), (Table 4.3). The coverage rate for Māori women was lower than that for non-Māori women (79.8%) and higher than the rate for Māori women in New Zealand (51.5%).

**Table 4.3:** Breast screening coverage, 50-64 years, percent, ethnicity, 2009-10

DHB	Māori	non-Māori	Total
Nelson-Marlborough DHB	66.6%	79.8%	79.0%
New Zealand	51.5%	65.0%	63.7%

## 4.4 Cervical Cancer Screening

Of women aged 20 to 69 years in the Nelson Marlborough DHB who had a primary health care provider, 90.2 percent had a cervical smear in the past three years, which is higher than the national percentage (Table 4.4). The coverage rate for Māori women (49.6%) was substantially lower compared to non-Māori women (80.0%).

**Table 4.4:** Had cervical smear in the last three years, 20-69 years, percent, ethnicity, 2009-10

<b>DHB</b>	<b>Māori</b>	<b>non-Māori</b>	<b>Total</b>
Nelson Marlborough DHB	49.6%	80.0%	90.2%
New Zealand	54.4%	75.5%	72.6%

## REFERENCES

- Salmond, C., Crampton, P., & Atkinson, J. (2007, 08 01). *NZDep2006 Index of Deprivation User's Manual*. Retrieved 04 03, 2012, from University of Otago, Wellington:  
<http://www.otago.ac.nz/wellington/otago020337.pdf>
- Statistics New Zealand. (2008, 07 03). *DHB Area Summary Tables*. Retrieved 04 02, 2012, from Statistics New Zealand:  
<http://www.stats.govt.nz/searchresults.aspx?q=DHB%20census%20populations>
- Statistics New Zealand. (2012, 01 24). *Household Economic Survey: Year ended June 2010*. Retrieved 04 03, 2012, from Statistics New Zealand:  
[http://www.stats.govt.nz/browse\\_for\\_stats/people\\_and\\_communities/Households/HouseholdEconomicSurvey\\_HOTPYeJun10/Commentary.aspx](http://www.stats.govt.nz/browse_for_stats/people_and_communities/Households/HouseholdEconomicSurvey_HOTPYeJun10/Commentary.aspx)
- The National Health Committee. (2008, June 01). *The Social, Cultural and Economic Determinants of Health in New Zealand: Action to Improve Health*. Retrieved 04 03, 2012, from National Health Committee:  
<http://www.nhc.health.govt.nz/sites/www.nhc.health.govt.nz/files/documents/publications/det-health.pdf>
- World Health Organisation. (2008). *Closing the gap in a generation: health equity through action on the social determinants of health. Final Report of the Commission on Social Determinants of Health*. Geneva: WHO.

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# Appendix 1

## Demographic Tables

Table 1.1.1: Projected Total Population by Age and Sex at 30 June 2007 (2006-Base)

Location	Age Group	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
		Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	0-14	13,490	12,680	26,180	13,390	12,690	26,080	13,290	12,670	25,980	13,230	12,490	25,720	12,690	11,980	24,670	- 2.4	- 5.0	- 3.6
	15-64	43,560	44,160	87,710	44,800	45,180	89,970	44,640	44,740	89,380	44,110	44,120	88,240	43,500	43,060	86,560	2.2	0.5	1.3
	65+	9,020	10,710	19,740	11,530	12,970	24,470	13,510	15,050	28,580	15,860	17,550	33,420	18,390	20,460	38,830	77.3	64.2	70.0
	Total	66,070	67,550	133,630	69,720	70,840	140,520	71,440	72,460	143,940	73,200	74,160	147,380	74,580	75,500	150,060	10.9	8.9	9.9
New Zealand	0-14	454,960	433,360	888,310	463,530	439,930	903,460	471,020	446,390	917,400	481,280	455,240	936,520	477,070	451,780	928,840	4.9	4.3	4.6
	15-64	1,364,450	1,420,210	2,784,650	1,453,870	1,503,460	2,957,340	1,484,350	1,530,690	3,015,030	1,514,650	1,554,990	3,069,630	1,545,220	1,573,770	3,119,010	13.2	10.8	12.0
	65+	228,930	282,690	511,620	280,080	330,240	610,290	324,050	374,290	698,340	378,790	433,010	811,780	440,280	503,800	944,080	92.3	78.2	84.5
	Total	2,048,340	2,136,260	4,184,580	2,197,480	2,273,630	4,471,090	2,279,420	2,351,370	4,630,770	2,374,720	2,443,240	4,817,930	2,462,570	2,529,350	4,991,930	20.2	18.4	19.3

Table 1.1.2: Projected Total Population Aged 0 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	830	780	1,620	830	790	1,620	790	750	1,550	770	730	1,500	750	720	1,470	- 9.6	- 7.7	- 9.3
New Zealand	30,150	28,910	59,060	31,830	30,190	62,020	31,380	29,760	61,140	31,380	29,750	61,130	31,500	29,870	61,360	4.5	3.3	3.9

Table 1.1.3: Projected Total Population Aged 1-4 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	3,200	3,180	6,380	3,590	3,380	6,970	3,370	3,190	6,570	3,220	3,060	6,280	3,160	2,990	6,150	- 1.3	- 6.0	- 3.6
New Zealand	116,060	110,880	226,940	130,230	122,710	252,940	126,860	120,240	247,090	125,820	119,240	245,060	126,140	119,520	245,660	8.7	7.8	8.2

Table 1.1.4: Projected Total Population Aged 5-9 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	4,480	4,120	8,600	4,430	4,290	8,720	4,700	4,430	9,140	4,410	4,160	8,570	4,240	4,000	8,240	- 5.4	- 2.9	- 4.2
New Zealand	149,230	142,650	291,880	151,640	144,070	295,710	163,170	153,990	317,160	159,530	151,110	310,640	158,510	150,120	308,630	6.2	5.2	5.7

Table 1.1.5: Projected Total Population Aged 10-14 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	4,980	4,600	9,580	4,540	4,230	8,770	4,430	4,300	8,720	4,830	4,540	9,370	4,540	4,270	8,810	- 8.8	- 7.2	- 8.0
New Zealand	159,520	150,920	310,430	149,830	142,960	292,790	149,610	142,400	292,010	164,550	155,140	319,690	160,920	152,270	313,190	0.9	0.9	0.9

Table 1.1.6: Projected Total Population Aged 15-19 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	4,720	4,310	9,030	4,550	3,880	8,430	4,310	3,680	7,980	4,110	3,740	7,850	4,520	3,990	8,510	- 4.2	- 7.4	- 5.8
New Zealand	159,400	154,160	313,560	160,800	153,760	314,560	154,110	148,300	302,410	152,660	146,680	299,340	167,590	159,430	327,020	5.1	3.4	4.3

Table 1.1.7: Projected Total Population Aged 20-24 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026			
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Nelson Marlborough	3,340	2,950	6,290	4,140	3,590	7,730	3,940	3,260	7,200	3,560	2,880	6,440	3,370	2,940	6,320	0.9	-	0.3	0.5
New Zealand	145,850	145,330	291,180	169,800	160,880	330,690	168,800	159,910	328,710	159,270	152,430	311,690	157,870	150,830	308,700	8.2	3.8	6.0	

Table 1.1.8: Projected Total Population Aged 25-29 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026			
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Nelson Marlborough	3,240	3,360	6,600	3,530	3,370	6,900	4,100	3,810	7,910	4,040	3,580	7,630	3,680	3,200	6,870	13.6	-	4.8	4.1
New Zealand	126,770	133,600	260,370	150,020	150,210	300,230	165,090	158,620	323,710	167,730	160,800	328,530	158,300	153,340	311,640	24.9	14.8	19.7	

Table 1.1.9: Projected Total Population Aged 30-34 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026				
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total		
Nelson Marlborough	4,050	4,190	8,240	3,600	3,680	7,280	3,710	3,640	7,360	4,330	4,140	8,470	4,270	3,910	8,180	5.4	-	6.7	-	0.7
New Zealand	136,320	149,700	286,010	137,460	145,930	283,390	152,120	156,340	308,450	169,600	165,430	335,030	172,310	167,630	339,940	26.4	12.0	18.9		

Table 1.1.10: Projected Total Population Aged 35-39 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026			
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Nelson Marlborough	4,550	4,990	9,540	4,010	4,350	8,360	3,720	4,060	7,770	3,920	3,960	7,880	4,530	4,460	8,990	-	0.4	-	5.8
New Zealand	149,140	163,430	312,560	136,360	149,500	285,860	136,720	146,490	283,210	154,840	159,360	314,200	172,320	168,470	340,790	15.5	3.1	9.0	

Table 1.1.11: Projected Total Population Aged 40-44 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026					
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total			
Nelson Marlborough	5,000	5,460	10,460	4,850	5,190	10,030	4,480	4,750	9,240	3,940	4,280	8,210	4,140	4,180	8,320	-	17.2	-	23.4	-	20.5
New Zealand	155,940	166,540	322,490	151,430	166,140	317,570	141,000	155,280	296,280	137,690	147,630	285,320	155,770	160,510	316,290	-	0.1	-	3.6	-	1.9

Table 1.1.12: Projected Total Population Aged 45-49 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026					
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total			
Nelson Marlborough	5,340	5,560	10,890	5,000	5,480	10,480	4,900	5,300	10,190	4,600	4,840	9,440	4,060	4,370	8,430	-	24.0	-	21.4	-	22.6
New Zealand	149,120	156,040	305,160	152,810	163,480	316,290	149,650	163,730	313,380	139,930	154,200	294,120	136,740	146,680	283,430	-	8.3	-	6.0	-	7.1

Table 1.1.13: Projected Total Population Aged 50-54 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	4,810	4,890	9,700	5,430	5,700	11,130	5,180	5,610	10,790	4,960	5,370	10,330	4,670	4,910	9,590	-	2.9	0.4 - 1.1
New Zealand	129,930	133,720	263,650	149,430	157,770	307,200	151,890	162,460	314,350	146,550	160,920	307,480	137,060	151,570	288,630	5.5	13.3	9.5



Table 1.1.14: Projected Total Population Aged 55-59 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	4,770	4,790	9,560	4,990	5,060	10,050	5,440	5,660	11,110	5,230	5,650	10,890	5,030	5,420	10,440	5.5	13.2	9.2
New Zealand	120,080	122,930	243,010	129,440	134,870	264,310	142,290	150,520	292,810	148,060	159,630	307,690	143,050	158,280	301,330	19.1	28.8	24.0

Table 1.1.15: Projected Total Population Aged 60-64 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	3,740	3,660	7,400	4,700	4,880	9,580	4,860	4,970	9,830	5,420	5,680	11,100	5,230	5,680	10,910	39.8	55.2	47.4
New Zealand	91,900	94,760	186,660	116,320	120,920	237,240	122,680	129,040	251,720	138,320	147,910	286,230	144,210	157,030	301,240	56.9	65.7	61.4

Table 1.1.16: Projected Total Population Aged 65-69 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	2,930	2,920	5,850	3,930	3,830	7,750	4,640	4,770	9,420	4,770	4,930	9,700	5,330	5,630	10,950	81.9	92.8	87.2
New Zealand	75,620	79,910	155,530	93,080	97,750	190,820	111,140	117,390	228,530	117,740	125,610	243,350	133,120	144,170	277,290	76.0	80.4	78.3

Table 1.1.17: Projected Total Population Aged 70-74 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	2,260	2,380	4,640	2,950	3,070	6,010	3,470	3,540	7,010	4,380	4,610	9,000	4,530	4,780	9,300	100.4	100.8	100.4
New Zealand	57,380	62,790	120,170	73,260	79,300	152,560	81,400	87,480	168,880	103,430	111,450	214,870	110,220	119,710	229,930	92.1	90.7	91.3

Table 1.1.18: Projected Total Population Aged 75-79 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	1,810	2,140	3,960	2,060	2,280	4,340	2,460	2,640	5,100	3,110	3,300	6,400	3,940	4,300	8,240	117.7	100.9	108.1
New Zealand	47,570	56,030	103,600	50,280	57,860	108,140	60,630	68,560	129,190	71,550	79,900	151,460	91,620	102,350	193,970	92.6	82.7	87.2

Table 1.1.19: Projected Total Population Aged 80-84 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	1,270	1,750	3,020	1,450	1,810	3,270	1,600	1,900	3,510	2,000	2,300	4,310	2,560	2,890	5,450	101.6	65.1	80.5
New Zealand	30,180	44,000	74,180	36,850	46,670	83,520	38,390	47,390	85,780	48,240	58,280	106,510	57,700	68,660	126,360	91.2	56.0	70.3

Table 1.1.20: Projected Total Population Aged 85-89 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	560	990	1,550	820	1,260	2,070	940	1,350	2,290	1,050	1,430	2,480	1,370	1,790	3,160	144.6	80.8	103.9
New Zealand	13,160	25,920	39,080	19,190	30,990	50,170	22,720	32,900	55,620	24,810	34,280	59,090	32,180	43,160	75,340	144.5	66.5	92.8

Table 1.1.21: Projected Total Population Aged 90+ Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	190	530	720	320	720	1,030	400	850	1,250	550	980	1,530	660	1,070	1,730	247.4	101.9	140.3
New Zealand	5,020	14,040	19,060	7,420	17,670	25,080	9,770	20,570	30,340	13,020	23,490	36,500	15,440	25,750	41,190	207.6	83.4	116.1

Table 1.1.22: Projected Total Population by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	66,100	67,500	133,600	69,700	70,800	140,500	71,400	72,500	143,900	73,200	74,200	147,400	74,600	75,500	150,100	12.9	11.9	12.4
New Zealand	2,048,300	2,136,200	4,184,600	2,197,500	2,273,600	4,471,100	2,279,400	2,351,400	4,630,800	2,374,700	2,443,200	4,817,900	2,462,600	2,529,300	4,991,900	20.2	18.4	19.3

NOTE: Owing to rounding, individual figures do not always sum to the totals shown.

These projections are: Medium Projection : Assuming Medium Fertility, Medium Mortality, and Medium Migration

These projections were derived in September 2010.

**Source: Statistics New Zealand**

**Population Projections Prepared**

**for Ministry of Health Ref No:**

**ROM27819**

Table 1.2.1: Projected Māori Population by Age and Sex at 30 June 2007 (2006-Base)

Location	Age Group	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
		Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	0-14	2,050	1,950	3,990	2,270	2,150	4,420	2,420	2,320	4,730	2,670	2,530	5,200	2,690	2,550	5,240	31.2	30.8	31.3
	15-64	3,650	3,740	7,370	4,050	4,120	8,180	4,310	4,320	8,610	4,490	4,520	9,010	4,840	4,820	9,640	32.6	28.9	30.8
	65+	220	260	490	360	420	770	460	540	1,000	590	700	1,300	800	950	1,730	263.6	265.4	253.1
	Total	5,920	5,950	11,850	6,680	6,690	13,370	7,190	7,180	14,340	7,750	7,750	15,510	8,330	8,320	16,610	40.7	39.8	40.2
New Zealand	0-14	110,480	104,810	215,310	119,900	114,160	234,070	126,030	119,990	246,030	133,180	126,750	259,920	132,290	125,860	258,150	19.7	20.1	19.9
	15-64	183,640	199,700	383,320	200,480	215,580	416,040	210,230	224,440	434,680	220,480	233,230	453,710	236,750	246,600	483,350	28.9	23.5	26.1
	65+	11,680	14,010	25,710	15,340	18,520	33,860	18,920	22,970	41,880	24,150	29,520	53,660	30,830	38,330	69,150	164.0	173.6	169.0
	Total	305,800	318,520	624,340	335,720	348,260	683,970	355,180	367,400	722,590	377,810	389,500	767,290	399,870	410,790	810,650	30.8	29.0	29.8

Table 1.2.2: Projected Māori Population Aged 0 Years by Sex at 30 June 2007(2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	140	130	260	180	170	340	180	170	340	180	170	350	180	170	360	28.6	30.8	38.5
New Zealand	8,070	7,840	15,920	9,220	8,750	17,980	9,080	8,620	17,700	9,050	8,590	17,640	9,310	8,830	18,140	15.4	12.6	13.9

Table 1.2.3: Projected Māori Population Aged 1-4 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	490	500	990	710	670	1,380	710	670	1,380	710	670	1,380	730	690	1,410	49.0	38.0	42.4
New Zealand	29,390	27,740	57,130	37,050	35,200	72,250	36,240	34,420	70,660	35,660	33,860	69,510	36,160	34,320	70,480	23.0	23.7	23.4

Table 1.2.4: Projected Māori Population Aged 5-9 Years by Sex at 30 June 2007(2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	680	650	1,330	680	690	1,370	890	850	1,740	890	850	1,740	890	850	1,740	30.9	30.8	30.8
New Zealand	36,500	34,900	71,410	38,540	36,750	75,290	45,430	43,250	88,690	44,370	42,230	86,600	43,760	41,640	85,410	19.9	19.3	19.6

Table 1.2.5: Projected Māori Population Aged 10-14 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	740	670	1,410	700	620	1,330	640	630	1,270	890	840	1,730	890	840	1,730	20.3	25.4	22.7
New Zealand	36,520	34,330	70,850	35,090	33,460	68,550	35,280	33,700	68,980	44,100	42,070	86,170	43,060	41,070	84,120	17.9	19.6	18.7

Table 1.2.6: Projected Māori Population Aged 15-19 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	660	660	1,320	630	620	1,250	620	610	1,230	580	590	1,170	830	800	1,620	25.8	21.2	22.7
New Zealand	32,900	33,090	65,980	34,100	32,300	66,390	33,530	32,150	65,680	33,610	32,080	65,690	42,170	40,200	82,370	28.2	21.5	24.8

Table 1.2.7: Projected Māori Population Aged 20-24 Years by Sex at 30 June 2007(2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	440	420	860	620	600	1,220	610	550	1,160	560	530	1,090	510	510	1,030	15.9	21.4	19.8
New Zealand	24,200	25,900	50,090	31,190	30,640	61,830	32,070	29,740	61,810	30,950	29,310	60,250	31,030	29,250	60,280	28.2	12.9	20.3

Table 1.2.8: Projected Māori Population Aged 25-29 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	400	370	770	420	410	840	560	560	1,110	570	520	1,090	520	500	1,020	30.0	35.1	32.5
New Zealand	20,620	22,960	43,580	21,930	23,830	45,750	27,180	27,580	54,760	29,110	27,190	56,310	28,040	26,780	54,820	36.0	16.6	25.8

Table 1.2.9: Projected Māori Population Aged 30-34 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	430	410	830	380	380	760	390	400	780	540	560	1,100	560	520	1,070	30.2	26.8	28.9
New Zealand	20,280	23,040	43,320	19,270	21,750	41,020	19,920	22,330	42,250	25,890	26,720	52,610	27,800	26,340	54,150	37.1	14.3	25.0

Table 1.2.10: Projected Māori Population Aged 35-39 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	380	440	820	410	390	800	390	370	760	390	400	790	540	560	1,100	42.1	27.3	34.1
New Zealand	19,940	22,610	42,550	18,780	21,830	40,610	18,390	21,360	39,750	19,130	21,750	40,880	24,990	26,070	51,060	25.3	15.3	20.0

Table 1.2.11: Projected Māori Population Aged 40-44 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026					
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total			
Nelson Marlborough	410	420	820	380	420	800	420	400	820	380	360	740	380	390	770	-	7.3	-	7.1	-	6.1
New Zealand	19,170	21,360	40,530	19,120	22,160	41,280	18,490	21,590	40,070	17,590	20,680	38,270	18,330	21,080	39,410	-	4.4	-	1.3	-	2.8

Table 1.2.12: Projected Māori Population Aged 45-49 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026			
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Nelson Marlborough	340	370	720	390	420	810	360	430	790	410	400	810	370	360	730	8.8	-	2.7	1.4
New Zealand	16,760	18,590	35,350	18,010	20,280	38,290	18,040	20,990	39,040	17,620	20,820	38,440	16,770	19,950	36,720	0.1	7.3	3.9	

Table 1.2.13: Projected Māori Population Aged 50-54 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	250	260	510	360	380	740	390	400	790	360	420	770	410	390	790	64.0	50.0	54.9
New Zealand	12,930	13,930	26,860	16,240	18,560	34,800	17,130	19,620	36,750	17,090	20,150	37,240	16,720	20,010	36,720	29.3	43.6	36.7

Table 1.2.14: Projected Māori Population Aged 55-59 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	200	220	420	270	270	540	330	360	690	380	390	780	350	410	760	75.0	86.4	81.0
New Zealand	10,070	10,860	20,930	12,390	13,760	26,140	14,630	16,810	31,440	16,040	18,710	34,750	16,070	19,260	35,330	59.6	77.3	68.8

Table 1.2.15: Projected Māori Population Aged 60-64 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	140	170	300	190	230	420	240	240	480	320	350	670	370	380	750	164.3	123.5	150.0
New Zealand	6,770	7,360	14,130	9,450	10,470	19,930	10,850	12,270	23,130	13,450	15,820	29,270	14,830	17,660	32,490	119.1	139.9	129.9

Table 1.2.16: Projected Māori Population Aged 65-69 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	110	110	220	140	160	300	180	200	380	220	230	460	300	330	630	172.7	200.0	186.4
New Zealand	5,410	5,930	11,350	6,200	7,030	13,240	8,000	9,180	17,180	9,690	11,250	20,930	12,110	14,580	26,690	123.8	145.9	135.2

Table 1.2.17: Projected Māori Population Aged 70-74 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	50	60	120	110	110	220	120	150	270	160	190	350	210	220	420	320.0	266.7	250
New Zealand	3,350	3,780	7,140	4,700	5,300	10,000	4,940	5,790	10,730	6,820	8,070	14,890	8,370	9,980	18,350	149.9	164.0	157

Table 1.2.18: Projected Māori Population Aged 75-79 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	40	40	80	60	70	120	90	100	190	100	140	240	140	180	320	250.0	350.0	300.0
New Zealand	1,810	2,380	4,200	2,590	3,230	5,820	3,470	4,200	7,670	3,930	4,830	8,760	5,540	6,830	12,360	206.1	187.0	194.3

Table 1.2.19: Projected Māori Population Aged 80-84 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	20	40	60	40	50	90	40	50	90	70	80	150	80	120	200	300.0	200.0	233.3
New Zealand	780	1,230	2,010	1,360	1,910	3,270	1,710	2,280	3,990	2,430	3,210	5,640	2,830	3,770	6,600	262.8	206.5	228.4

Table 1.2.20: Projected Māori Population Aged 85-89 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	-	10	10	10	20	30	20	30	50	30	40	70	50	70	110	/	600.0	1,000.0
New Zealand	280	530	810	390	780	1,170	630	1,090	1,710	970	1,480	2,450	1,450	2,160	3,610	417.9	307.5	345.7

Table 1.2.21: Projected Māori Population Aged 90+ Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson	-	-	-	-	10	10	10	10	20	10	20	30	20	30	50	/	/	/
Marlborough																		
New Zealand	50	160	200	100	270	360	170	430	600	310	680	990	530	1,010	1,540	960.0	531.3	670.0

Table 1.2.22: Projected Māori Population by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson																		
Marlborough	5,900	5,950	11,850	6,700	6,700	13,400	7,150	7,150	14,350	7,750	7,750	15,500	8,300	8,300	16,650	40.7	39.5	40.5
New Zealand	305,800	318,500	624,300	335,700	348,300	684,000	355,200	367,400	722,600	377,800	389,500	767,300	399,900	410,800	810,700	30.8	29.0	29.9

NOTE: Owing to rounding, individual figures do not always sum to the totals shown.

These projections are: Medium Projection : Assuming Medium Fertility, Medium Mortality, and Medium Migration

These projections were derived in September 2010.

**Source: Statistics New Zealand**

**Population Projections Prepared**

**for Ministry of Health Ref No:**

**ROM27819**

Table 1.3.1: Projected Non Māori Population by Age and Sex at 30 June 2007 (2006-Base)

Location	Age Group	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
		Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	0-14	11,440	10,730	22,190	11,120	10,540	21,660	10,870	10,350	21,250	10,560	9,960	20,520	10,000	9,430	19,430	-	12.6	- 12.1 - 12.4
	15-64	39,910	40,420	80,340	40,750	41,060	81,790	40,330	40,420	80,770	39,620	39,600	79,230	38,660	38,240	76,920	-	3.1	- 5.4 - 4.3
	65+	8,800	10,450	19,250	11,170	12,550	23,700	13,050	14,510	27,580	15,270	16,850	32,120	17,590	19,510	37,100		99.9	86.7 92.7
	Total	60,150	61,600	121,780	63,040	64,150	127,150	64,250	65,280	129,600	65,450	66,410	131,870	66,250	67,180	133,450		10.1	9.1 9.6
New Zealand	0-14	344,480	328,550	673,000	343,630	325,770	669,390	344,990	326,400	671,370	348,100	328,490	676,600	344,780	325,920	670,690		0.1	- 0.8 - 0.3
	15-64	1,180,810	1,220,510	2,401,330	1,253,390	1,287,880	2,541,300	1,274,120	1,306,250	2,580,350	1,294,170	1,321,760	2,615,920	1,308,470	1,327,170	2,635,660		10.8	8.7 9.8
	65+	217,250	268,680	485,910	264,740	311,720	576,430	305,130	351,320	656,460	354,640	403,490	758,120	409,450	465,470	874,930		88.5	73.2 80.1
	Total	1,742,540	1,817,740	3,560,240	1,861,760	1,925,370	3,787,120	1,924,240	1,983,970	3,908,180	1,996,910	2,053,740	4,050,640	2,062,700	2,118,560	4,181,280		18.4	16.5 17.4

Table 1.3.2: Projected Non Māori Population Aged 0 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	690	650	1,360	650	620	1,280	610	580	1,210	590	560	1,150	570	550	1,110	-	17.4	- 15.4 - 18.4
New Zealand	22,080	21,070	43,140	22,610	21,440	44,040	22,300	21,140	43,440	22,330	21,160	43,490	22,190	21,040	43,220		0.5	- 0.1 0.2

Table 1.3.3: Projected Non Māori Population Aged 1-4 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	2,710	2,680	5,390	2,880	2,710	5,590	2,660	2,520	5,190	2,510	2,390	4,900	2,430	2,300	4,740	-	10.3	- 14.2 - 12.1
New Zealand	86,670	83,140	169,810	93,180	87,510	180,690	90,620	85,820	176,430	90,160	85,380	175,550	89,980	85,200	175,180		3.8	2.5 3.2

Table 1.3.4: Projected Non Māori Population Aged 5-9 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	3,800	3,470	7,270	3,750	3,600	7,350	3,810	3,580	7,400	3,520	3,310	6,830	3,350	3,150	6,500	-	11.8	- 9.2 - 10.6
New Zealand	112,730	107,750	220,470	113,100	107,320	220,420	117,740	110,740	228,470	115,160	108,880	224,040	114,750	108,480	223,220		1.8	0.7 1.2

Table 1.3.5: Projected Non Māori Population Aged 10-14 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	4,240	3,930	8,170	3,840	3,610	7,440	3,790	3,670	7,450	3,940	3,700	7,640	3,650	3,430	7,080	-	13.9	- 12.7 - 13.3
New Zealand	123,000	116,590	239,580	114,740	109,500	224,240	114,330	108,700	223,030	120,450	113,070	233,520	117,860	111,200	229,070	-	4.2	- 4.6 - 4.4

Table 1.3.6: Projected Non Māori Population Aged 15-19 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	4,060	3,650	7,710	3,920	3,260	7,180	3,690	3,070	6,750	3,530	3,150	6,680	3,690	3,190	6,890	-	9.1	- 12.6 - 10.6
New Zealand	126,500	121,070	247,580	126,700	121,460	248,170	120,580	116,150	236,730	119,050	114,600	233,650	125,420	119,230	244,650	-	0.9	- 1.5 - 1.2

Table 1.3.7: Projected Non Māori Population Aged 20-24 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	2,900	2,530	5,430	3,520	2,990	6,510	3,330	2,710	6,040	3,000	2,350	5,350	2,860	2,430	5,290	-	1.4	- 4.0
New Zealand	121,650	119,430	241,090	138,610	130,240	268,860	136,730	130,170	266,900	128,320	123,120	251,440	126,840	121,580	248,420	4.3	1.8	3.0

Table 1.3.8: Projected Non Māori Population Aged 25-29 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	2,840	2,990	5,830	3,110	2,960	6,060	3,540	3,250	6,800	3,470	3,060	6,540	3,160	2,700	5,850	11.3	- 9.7	0.3
New Zealand	106,150	110,640	216,790	128,090	126,380	254,480	137,910	131,040	268,950	138,620	133,610	272,220	130,260	126,560	256,820	22.7	14.4	18.5

Table 1.3.9: Projected Non Māori Population Aged 30-34 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	3,620	3,780	7,410	3,220	3,300	6,520	3,320	3,240	6,580	3,790	3,580	7,370	3,710	3,390	7,110	2.5	- 10.3	4.0
New Zealand	116,040	126,660	242,690	118,190	124,180	242,370	132,200	134,010	266,200	143,710	138,710	282,420	144,510	141,290	285,790	24.5	11.6	17.8

Table 1.3.10: Projected Non Māori Population Aged 35-39 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	4,170	4,550	8,720	3,600	3,960	7,560	3,330	3,690	7,010	3,530	3,560	7,090	3,990	3,900	7,890	-	4.3	- 14.3
New Zealand	129,200	140,820	270,010	117,580	127,670	245,250	118,330	125,130	243,460	135,710	137,610	273,320	147,330	142,400	289,730	14.0	1.1	7.3

Table 1.3.11: Projected Non Māori Population Aged 40-44 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	4,590	5,040	9,640	4,470	4,770	9,230	4,060	4,350	8,420	3,560	3,920	7,470	3,760	3,790	7,550	-	18.1	- 24.8
New Zealand	136,770	145,180	281,960	132,310	143,980	276,290	122,510	133,690	256,210	120,100	126,950	247,050	137,440	139,430	276,880	0.5	- 4.0	1.8

Table 1.3.12: Projected Non Māori Population Aged 45-49 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	5,000	5,190	10,170	4,610	5,060	9,670	4,540	4,870	9,400	4,190	4,440	8,630	3,690	4,010	7,700	-	26.2	- 22.7
New Zealand	132,360	137,450	269,810	134,800	143,200	278,000	131,610	142,740	274,340	122,310	133,380	255,680	119,970	126,730	246,710	-	9.4	- 7.8

Table 1.3.13: Projected Non Māori Population Aged 50-54 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	4,560	4,630	9,190	5,070	5,320	10,390	4,790	5,210	10,000	4,600	4,950	9,560	4,260	4,520	8,800	-	6.6	- 2.4
New Zealand	117,000	119,790	236,790	133,190	139,210	272,400	134,760	142,840	277,600	129,460	140,770	270,240	120,340	131,560	251,910	2.9	9.8	6.4



Table 1.3.14: Projected Non Māori Population Aged 55-59 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	4,570	4,570	9,140	4,720	4,790	9,510	5,110	5,300	10,420	4,850	5,260	10,110	4,680	5,010	9,680	2.4	9.6	5.9
New Zealand	110,010	112,070	222,080	117,050	121,110	238,170	127,660	133,710	261,370	132,020	140,920	272,940	126,980	139,020	266,000	15.4	24.0	19.8

Table 1.3.15: Projected Non Māori Population Aged 60-64 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	3,600	3,490	7,100	4,510	4,650	9,160	4,620	4,730	9,350	5,100	5,330	10,430	4,860	5,300	10,160	35.0	51.9	43.1
New Zealand	85,130	87,400	172,530	106,870	110,450	217,310	111,830	116,770	228,590	124,870	132,090	256,960	129,380	139,370	268,750	52.0	59.5	55.8

Table 1.3.16: Projected Non Māori Population Aged 65-69 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	2,820	2,810	5,630	3,790	3,670	7,450	4,460	4,570	9,040	4,550	4,700	9,240	5,030	5,300	10,320	78.4	88.6	83.3
New Zealand	70,210	73,980	144,180	86,880	90,720	177,580	103,140	108,210	211,350	108,050	114,360	222,420	121,010	129,590	250,600	72.4	75.2	73.8

Table 1.3.17: Projected Non Māori Population Aged 70-74 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	2,210	2,320	4,520	2,840	2,960	5,790	3,350	3,390	6,740	4,220	4,420	8,650	4,320	4,560	8,880	95.5	96.6	96.5
New Zealand	54,030	59,010	113,030	68,560	74,000	142,560	76,460	81,690	158,150	96,610	103,380	199,980	101,850	109,730	211,580	88.5	86.0	87.2

Table 1.3.18: Projected Non Māori Population Aged 75-79 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	1,770	2,100	3,880	2,000	2,210	4,220	2,370	2,540	4,910	3,010	3,160	6,160	3,800	4,120	7,920	114.7	96.2	104.1
New Zealand	45,760	53,650	99,400	47,690	54,630	102,320	57,160	64,360	121,520	67,620	75,070	142,700	86,080	95,520	181,610	88.1	78.0	82.7

Table 1.3.19: Projected Non Māori Population Aged 80-84 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	1,250	1,710	2,960	1,410	1,760	3,180	1,560	1,850	3,420	1,930	2,220	4,160	2,480	2,770	5,250	98.4	62.0	77.4
New Zealand	29,400	42,770	72,170	35,490	44,760	80,250	36,680	45,110	81,790	45,810	55,070	100,870	54,870	64,890	119,760	86.6	51.7	65.9

Table 1.3.20: Projected Non Māori Population Aged 85-89 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	560	980	1,540	810	1,240	2,040	920	1,320	2,240	1,020	1,390	2,410	1,320	1,720	3,050	135.7	75.5	98.1
New Zealand	12,880	25,390	38,270	18,800	30,210	49,000	22,090	31,810	53,910	23,840	32,800	56,640	30,730	41,000	71,730	138.6	61.5	87.4

Table 1.3.21: Projected Non Māori Population Aged 90+ Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	190	530	720	320	710	1,020	390	840	1,230	540	960	1,500	640	1,040	1,680	236.8	96.2	133.3
New Zealand	100	230	330	140	340	470	190	380	560	230	430	670	280	450	740	180.0	95.7	124.2

Table 1.3.22: Projected Non Māori Population by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nelson Marlborough	60,150	61,600	121,780	63,040	64,150	127,150	64,250	65,280	129,600	65,450	66,410	131,870	66,250	67,180	133,450	10.1	9.1	9.6
New Zealand	1,742,500	1,817,700	3,560,300	1,861,800	1,925,300	3,787,100	1,924,200	1,984,000	3,908,200	1,996,900	2,053,700	4,050,600	2,062,700	2,118,500	4,181,200	18.4	16.5	17.4

NOTE: Owing to rounding, individual figures do not always sum to the totals shown.

These projections are: Medium Projection : Assuming Medium Fertility, Medium Mortality, and Medium Migration

These projections were derived in September 2010.

**Source: Statistics New Zealand**

**Population Projections Prepared**

**for Ministry of Health Ref No:**

**ROM27819**

Table 1.4.1: Population Distribution by Age: Males (2006 Census)

		0–4	5–9	10–14	15–19	20–24	25–29	30–34	35–39	40–44
Nelson	Number	3,912	4,425	4,944	4,518	3,183	3,102	3,933	4,416	4,935
Marlborough	Percentage	6.0	7.0	8.0	7.0	5.0	5.0	6.0	7.0	8.0
New Zealand	Number	140,382	146,532	157,116	152,439	135,084	117,216	130,884	143,001	150,900
	Percentage	7.1	7.5	8.0	7.8	6.9	6.0	6.7	7.3	7.7

		45–49	50–54	55–59	60–64	65–69	70–74	75–79	80–84	85+	Total
Nelson	Number	5,154	4,644	4,599	3,618	2,802	2,217	1,779	1,224	738	64,146
Marlborough	Percentage	8.0	7.0	7.0	6.0	4.0	3.0	3.0	2.0	1.0	
New Zealand	Number	143,055	124,311	115,224	88,338	72,114	55,878	46,356	29,124	17,667	1,965,618
	Percentage	7.3	6.3	5.9	4.5	3.7	2.8	2.4	1.5	0.9	

(1) All figures are for the census usually resident population.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables

Table 1.4.2: Population Distribution by Age: Females (2006 Census)

		0–4	5–9	10–14	15–19	20–24	25–29	30–34	35–39	40–44
Nelson	Number	3,879	4,071	4,536	4,122	2,868	3,207	4,161	4,908	5,424
Marlborough	Percentage	6.0	6.0	7.0	6.0	4.0	5.0	6.0	7.0	8.0
New Zealand	Number	134,694	139,956	148,896	147,762	135,894	125,223	145,677	158,553	162,798
	Percentage	6.5	6.8	7.2	7.2	6.6	6.1	7.1	7.7	7.9

		45–49	50–54	55–59	60–64	65–69	70–74	75–79	80–84	85+	Total
Nelson	Number	5,376	4,713	4,665	3,567	2,787	2,334	2,115	1,713	1,470	65,916
Marlborough	Percentage	8.0	7.0	7.0	5.0	4.0	4.0	3.0	3.0	2.0	
New Zealand	Number	150,369	128,421	118,347	91,278	76,434	61,056	54,858	43,113	39,000	2,062,329
	Percentage	7.3	6.2	5.7	4.4	3.7	3.0	2.7	2.1	1.9	

(1) All figures are for the census usually resident population.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables

Table 1.4.3: Population Distribution by Age: Total (2006 Census)

		0–4	5–9	10–14	15–19	20–24	25–29	30–34	35–39	40–44
Nelson	Number	7,794	8,496	9,483	8,637	6,051	6,309	8,094	9,324	10,359
Marlborough	Percentage	6.0	7.0	7.0	7.0	5.0	5.0	6.0	7.0	8.0
New Zealand	Number	275,076	286,488	306,009	300,198	270,978	242,439	276,561	301,554	313,698
	Percentage	6.8	7.1	7.6	7.5	6.7	6.0	6.9	7.5	7.8

		45–49	50–54	55–59	60–64	65–69	70–74	75–79	80–84	85+	Total
Nelson	Number	10,530	9,360	9,264	7,188	5,589	4,551	3,891	2,940	2,208	130,062
Marlborough	Percentage	8.0	7.0	7.0	6.0	4.0	3.0	3.0	2.0	2.0	
New Zealand	Number	293,421	252,729	233,571	179,616	148,545	116,934	101,214	72,237	56,670	4,027,947
	Percentage	7.3	6.3	5.8	4.5	3.7	2.9	2.5	1.8	1.4	

(1) All figures are for the census usually resident population.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables

Table 1.4.4: Female Population by Ethnicity (2006 Census)

Age Group (years)	Māori				Non Māori				Total people stated**				Total people, not elsewhere included***				Total people	
	Nelson Marlborough		New Zealand		Nelson Marlborough		New Zealand		Nelson Marlborough		New Zealand		Nelson Marlborough		New Zealand		Nelson Marlborough	New Zealand
	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Number
0–4	597	15.7	32,355	25.1	3,198	84.3	96,579	74.9	3,795	97.8	128,934	2,513.3	87	2.2	5,760	112.3	3,882	5,130
5–9	624	15.8	32,544	24.2	3,330	84.2	101,832	75.8	3,954	97.1	134,376	2,387.6	120	2.9	5,577	99.1	4,074	5,628
10–14	639	14.4	32,379	22.6	3,804	85.6	110,901	77.4	4,443	97.9	143,280	2,404.8	93	2.1	5,613	94.2	4,536	5,958
15–19	612	15.3	29,502	20.8	3,396	84.7	112,365	79.2	4,008	97.3	141,867	2,212.9	114	2.8	5,895	92.0	4,119	6,411
20–24	357	13.1	22,434	17.4	2,376	86.9	106,608	82.6	2,733	95.3	129,042	2,284.3	135	4.7	6,849	121.2	2,868	5,649
25–29	333	10.8	20,529	17.2	2,760	89.2	98,604	82.8	3,093	96.4	119,133	2,629.9	114	3.6	6,090	134.4	3,207	4,530
30–34	399	9.9	21,384	15.3	3,624	90.1	118,290	84.7	4,023	96.8	139,674	2,708.4	138	3.3	6,000	116.3	4,158	5,157
35–39	408	8.6	20,790	13.6	4,341	91.4	131,550	86.4	4,749	96.8	152,340	2,719.9	159	3.2	6,210	110.9	4,905	5,601
40–44	396	7.5	19,905	12.7	4,857	92.5	136,773	87.3	5,253	96.8	156,678	2,537.7	174	3.2	6,120	99.1	5,424	6,174
45–49	342	6.6	16,926	11.7	4,866	93.4	127,536	88.3	5,208	96.9	144,462	2,564.1	165	3.1	5,907	104.8	5,376	5,634
50–54	243	5.4	12,597	10.2	4,290	94.6	110,826	89.8	4,533	96.2	123,423	2,447.4	180	3.8	4,998	99.1	4,713	5,043
55–59	198	4.4	9,762	8.6	4,308	95.6	104,037	91.4	4,506	96.5	113,799	2,414.6	159	3.4	4,548	96.5	4,668	4,713
60–64	159	4.6	6,717	7.6	3,282	95.4	81,159	92.4	3,441	96.4	87,876	2,267.2	126	3.5	3,405	87.8	3,570	3,876
65–69	96	3.6	5,310	7.2	2,592	96.4	68,244	92.8	2,688	96.3	73,554	2,197.0	102	3.7	2,880	86.0	2,790	3,348
70–74	48	2.1	3,471	5.9	2,211	97.9	55,368	94.1	2,259	96.8	58,839	2,066.7	72	3.1	2,217	77.9	2,334	2,847
75–79	39	1.9	2,190	4.1	2,007	98.1	50,607	95.9	2,046	96.9	52,797	2,154.1	66	3.1	2,058	84.0	2,112	2,451
80–84	27	1.6	1,074	2.6	1,629	98.4	40,437	97.4	1,656	96.7	41,511	2,151.9	60	3.5	1,605	83.2	1,713	1,929
85 and over	6	0.4	609	1.6	1,410	99.6	37,002	98.4	1,416	96.3	37,611	2,143.1	54	3.7	1,389	79.1	1,470	1,755
Total	5,529	8.7	290,469	14.7	58,272	91.3	1,688,736	85.3	63,801	96.8	1,979,205	2,418.4	2,115	3.2	83,124	101.6	65,916	81,840

All figures are for the census usually resident population.

\* Percentages are calculated using 'Total People Stated' as the denominator. These will add up to &gt;100 where individuals have identified as belonging to more than one ethnic group.

\*\*\*Percentage for 'Total People Stated' and 'Total People not Included Elsewhere' uses 'Total Population' as the Denominator

\*\*\*Total People not included elsewhere refers to all those who did not state an ethnicity

Table 1.4.5: Male Population by Ethnicity (2006 Census)

Age Group (years)	Māori				Non Māori				Total people stated**				Total people, not elsewhere included***				Total people	
	Nelson Marlborough		New Zealand		Nelson Marlborough		New Zealand		Nelson Marlborough		New Zealand		Nelson Marlborough		New Zealand		Nelson Marlborough	New Zealand
	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Number
0–4	588	15.4	34,071	25.3	3,219	84.6	100,671	74.7	3,807	97.3	134,742	2,626.5	105	2.7	5,640	109.9	3,912	5,130
5–9	648	15.0	34,230	24.2	3,675	85.0	106,974	75.8	4,323	97.7	141,204	2,509.0	102	2.3	5,331	94.7	4,425	5,628
10–14	711	14.8	34,347	22.7	4,107	85.2	117,129	77.3	4,818	97.4	151,476	2,542.4	126	2.5	5,637	94.6	4,947	5,958
15–19	603	13.8	29,031	19.9	3,771	86.2	117,156	80.1	4,374	96.8	146,187	2,280.3	144	3.2	6,252	97.5	4,518	6,411
20–24	372	12.3	20,337	16.0	2,655	87.7	107,127	84.0	3,027	95.1	127,464	2,256.4	159	5.0	7,623	134.9	3,183	5,649
25–29	348	11.8	17,577	15.9	2,589	88.2	92,970	84.1	2,937	94.7	110,547	2,440.3	168	5.4	6,669	147.2	3,102	4,530
30–34	378	10.0	18,075	14.5	3,387	90.0	106,272	85.5	3,765	95.7	124,347	2,411.2	165	4.2	6,540	126.8	3,933	5,157
35–39	351	8.2	17,808	13.1	3,915	91.8	118,554	86.9	4,266	96.6	136,362	2,434.6	153	3.5	6,639	118.5	4,416	5,601
40–44	375	7.9	17,367	12.0	4,386	92.1	126,945	88.0	4,761	96.5	144,312	2,337.4	174	3.5	6,588	106.7	4,935	6,174
45–49	315	6.3	14,979	10.9	4,656	93.7	122,079	89.1	4,971	96.5	137,058	2,432.7	183	3.6	5,994	106.4	5,151	5,634
50–54	228	5.1	11,595	9.7	4,230	94.9	107,670	90.3	4,458	96.0	119,265	2,365.0	189	4.1	5,046	100.1	4,644	5,043
55–59	174	3.9	8,868	8.0	4,242	96.1	101,742	92.0	4,416	96.0	110,610	2,346.9	180	3.9	4,614	97.9	4,599	4,713
60–64	123	3.5	6,096	7.2	3,381	96.5	78,822	92.8	3,504	96.8	84,918	2,190.9	114	3.1	3,420	88.2	3,621	3,876
65–69	105	3.9	4,848	7.0	2,607	96.1	64,494	93.0	2,712	96.8	69,342	2,071.1	93	3.3	2,769	82.7	2,802	3,348
70–74	45	2.1	3,039	5.7	2,112	97.9	50,718	94.3	2,157	97.3	53,757	1,888.2	60	2.7	2,121	74.5	2,217	2,847
75–79	36	2.1	1,620	3.6	1,686	97.9	42,957	96.4	1,722	96.8	44,577	1,818.7	57	3.2	1,782	72.7	1,779	2,451
80–84	15	1.3	693	2.5	1,161	98.7	27,219	97.5	1,176	96.1	27,912	1,447.0	48	3.9	1,212	62.8	1,224	1,929
85 and over	6	0.8	279	1.7	711	99.2	16,599	98.3	717	97.2	16,878	961.7	24	3.3	789	45.0	738	1,755
Total	5,424	8.8	274,860	14.6	56,484	91.2	1,606,098	85.4	61,908	96.5	1,880,958	2,298.3	2,238	3.5	84,660	103.4	64,146	81,840

All figures are for the census usually resident population.

\* Percentages are calculated using 'Total People Stated' as the denominator. These will add up to &gt;100 where individuals have identified as belonging to more than one ethnic group.

\*\*\*Percentage for 'Total People Stated' and 'Total People not Included Elsewhere' uses 'Total Population' as the Denominator

\*\*\*Total People not included elsewhere refers to all those who did not state an ethnicity

Table 1.4.6: Total Population by Ethnicity (2006 Census)

Age Group (years)	Māori				Non Māori				Total people stated**				Total people, not elsewhere included***				Total people	
	Nelson Marlborough		New Zealand		Nelson Marlborough		New Zealand		Nelson Marlborough		New Zealand		Nelson Marlborough		New Zealand		Nelson Marlborough	New Zealand
	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Number
0–4	1,185	15.6	66,426	25.2	6,417	84.4	197,250	74.8	7,602	97.6	263,676	95.9	192	2.5	11,400	4.1	7,791	275,079
5–9	1,275	15.4	66,774	24.2	7,002	84.6	208,806	75.8	8,277	97.4	275,580	96.2	222	2.6	10,908	3.8	8,499	286,488
10–14	1,353	14.6	66,726	22.6	7,911	85.4	228,030	77.4	9,264	97.7	294,756	96.3	219	2.3	11,253	3.7	9,483	306,009
15–19	1,215	14.5	58,533	20.3	7,167	85.5	229,521	79.7	8,382	97.0	288,054	96.0	258	3.0	12,144	4.0	8,640	300,198
20–24	732	12.7	42,771	16.7	5,028	87.3	213,735	83.3	5,760	95.2	256,506	94.7	291	4.8	14,472	5.3	6,051	270,978
25–29	678	11.2	38,106	16.6	5,349	88.8	191,577	83.4	6,027	95.5	229,683	94.7	279	4.4	12,759	5.3	6,309	242,442
30–34	774	9.9	39,459	14.9	7,017	90.1	224,562	85.1	7,791	96.3	264,021	95.5	303	3.7	12,540	4.5	8,094	276,561
35–39	759	8.4	38,598	13.4	8,253	91.6	250,104	86.6	9,012	96.7	288,702	95.7	312	3.3	12,852	4.3	9,324	301,554
40–44	771	7.7	37,272	12.4	9,243	92.3	263,718	87.6	10,014	96.7	300,990	95.9	348	3.4	12,708	4.1	10,359	313,698
45–49	657	6.5	31,908	11.3	9,522	93.5	249,612	88.7	10,179	96.7	281,520	95.9	351	3.3	11,901	4.1	10,527	293,421
50–54	474	5.3	24,192	10.0	8,514	94.7	218,496	90.0	8,988	96.1	242,688	96.0	369	3.9	10,044	4.0	9,357	252,732
55–59	372	4.2	18,630	8.3	8,553	95.8	205,779	91.7	8,925	96.3	224,409	96.1	342	3.7	9,162	3.9	9,264	233,574
60–64	282	4.1	12,816	7.4	6,663	95.9	159,975	92.6	6,945	96.7	172,791	96.2	243	3.4	6,825	3.8	7,185	179,616
65–69	198	3.7	10,158	7.1	5,199	96.3	132,741	92.9	5,397	96.5	142,899	96.2	192	3.4	5,646	3.8	5,592	148,548
70–74	96	2.2	6,510	5.8	4,320	97.8	106,086	94.2	4,416	97.0	112,596	96.3	132	2.9	4,338	3.7	4,551	116,934
75–79	78	2.1	3,807	3.9	3,690	97.9	93,567	96.1	3,768	96.8	97,374	96.2	123	3.2	3,840	3.8	3,891	101,214
80–84	45	1.6	1,764	2.5	2,784	98.4	67,659	97.5	2,829	96.3	69,423	96.1	108	3.7	2,814	3.9	2,937	72,240
85 and over	9	0.4	888	1.6	2,121	99.6	53,604	98.4	2,130	96.3	54,492	96.2	75	3.4	2,178	3.8	2,211	56,670
Total	10,953	8.7	565,326	14.6	114,756	91.3	3,294,837	85.4	125,709	96.7	3,860,163	95.8	4,353	3.3	167,784	4.2	130,062	4,027,947

All figures are for the census usually resident population.

\* Percentages are calculated using 'Total People Stated' as the denominator. These will add up to >100 where individuals have identified as belonging to more than one ethnic group.

\*\*Percentage for 'Total People Stated' and 'Total People not Included Elsewhere' uses 'Total Population' as the Denominator

\*\*\*Total People not included elsewhere refers to all those who did not state an ethnicity

Table 1.4.7: Population Distribution by Birthplace (2006 Census)

		Birthplace										
Location	Unit	New Zealand	Australia(1)	Pacific Islands(2)	United Kingdom and Ireland	Europe (excluding UK and Ireland)	North America	Asia	Other	Total Overseas	Not elsewhere included(3)	Total
Nelson Marlborough	Number	105,168	2,349	633	9,660	2,691	1,284	1,758	1,407	19,782	5,112	130,065
	Percentage	81.0	2.0	-	7.0	2.0	1.0	1.0	1.0	15.0	4.0	
New Zealand	Number	2,960,217	62,742	135,852	251,688	68,067	26,940	251,130	83,121	879,546	188,187	4,027,947
	Percentage	73.5	1.6	3.4	6.2	1.7	0.7	6.2	2.1	21.8	4.7	

All figures are for the census usually resident population.

(1) Includes Australian Territories.

(2) Includes Melanesia, Micronesia and Polynesia. (3)

includes Inadequately Described and Not Stated.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.5.1: Legal Marital Status (2006 Census)

		Legal Marital Status						
Location	Unit	Never married and never joined in a civil union	Married (not separated)	Separated(2)	Divorced	Widowed or bereaved civil union partner	Not elsewhere included(3)	Total
Nelson Marlborough	Number	27,813	51,078	3,669	8,427	6,441	6,861	104,289
	Percentage	26.7	49.0	3.5	8.1	6.2	6.6	
New Zealand	Number	991,323	1,414,533	108,225	222,138	174,813	249,336	3,160,371
	Percentage	31.4	44.8	3.4	7.0	5.5	7.9	

(1) All figures are for the census usually resident population aged 15 years and over.

(2) Includes people who are still legally married but permanently separated. This also applies to civil unions.

(3) Includes Joined in a Civil Union (Not Separated), Response Unidentifiable and Not Stated. For further

Note: This data has been randomly rounded to protect confidentiality. Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.5.2: Social Marital Status (2006 Census)

		Social Marital Status											
		Partnered				Non-partnered							
Location	Unit	Partnered, not further defined <sup>(2)</sup>	Spouse <sup>(3)</sup>	Other partnership <sup>(4)</sup>	Total partnered	Non-partnered, not further defined	Non-partnered, never married and never joined in a civil union	Non-partnered, separated <sup>(5)</sup>	Non-partnered, divorced	Non-partnered, widowed or bereaved civil union partner	Total non-partnered	Not stated	Total
Nelson Marlborough	Number	1,362	50,205	13,143	64,707	2,295	18,534	2,625	4,827	5,376	33,663	5,925	104,292
	Percentage	2.1	77.6	20.3	65.8	6.8	55.1	7.8	14.3	16.0	34.2		
New Zealand	Number	48,177	1,381,293	379,956	1,809,426	86,733	693,597	78,960	137,205	147,381	1,143,873	207,075	3,160,371
	Percentage	2.7	76.3	21.0	61*	7.6	60.6	6.9	12.0	12.9	39*		

\* % of total - 'not stated'

(1) All figures are for the census usually resident population aged 15 years and over.

(2) Includes Partnered, Not Further Defined and Civil Union Partner. For further information, refer to the social marital status variable on the 2006 Census Information About Data web page: <http://www.stats.govt.nz/census/>.

(3) Applies only to married people, not those in civil unions.

(4) Living as Married: ie in a consensual union, de facto relationship etc.

(5) Includes people who are still legally married but permanently separated. Includes civil unions.

Note: This data has been randomly rounded to protect confidentiality. Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.5.3: Family Type (2006 Census)

		Family Type			
Location	Unit	Couple without children	Couple with child(ren)	One parent with child(ren)	Total
Nelson Marlborough	Number	16,854	14,010	5,322	36,189
	Percentage	46.6	38.7	14.7	
New Zealand	Number	425,973	447,894	193,635	1,067,502
	Percentage	39.9	42.0	18.1	

(1) All figures are for families in private occupied dwellings.

Note: This data has been randomly rounded to protect confidentiality. Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.5.4: Household Composition (2006 Census)

		Household composition						
Location	Unit	One-family household (with or without other people)	Two-family household (with or without other people)	Three-or-more family household (with or without other people)	Other multiperson household	One-person household	Household composition unidentifiable	Total
Nelson	Number	34,761	693	12	1,911	12,066	711	50,157
Marlborough	Percentage	69.3	1.4	0.0	3.8	24.1	1.4	
New Zealand	Number	985,542	37,083	2,526	72,657	328,299	28,065	1,454,175
	Percentage	67.8	2.6	0.2	5.0	22.6	1.9	

(1) All figures are for households in private occupied dwellings.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.5.5: Number of Languages Spoken (2006 Census)

		Number of Languages Spoken								
Location	Unit	None	One	Two	Three	Four	Five	Six	Not elsewhere included(2)	Total
Nelson	Number	2,247	112,026	8,553	1,383	423	111	36	5,283	130,065
Marlborough	Percentage	1.7	86.1	6.6	1.1	0.3	0.1	0.0	4.1	
New Zealand	Number	75,198	3,083,904	562,446	83,400	19,281	5,055	1,476	197,190	4,027,947
	Percentage	1.9	76.6	14.0	2.1	0.5	0.1	0.0	4.9	

(1) All figures are for the census usually resident population.

(2) Includes Response Unidentifiable, Response Outside Scope and Not Stated.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.



Table 1.5.6: Number of children born by age group of mother (2006 Census)

Location	Unit	Age Group (Years) of Mother									
		15–19		20–24		25–29		30–34		35–39	
		Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage
Nelson Marlborough	No children	5,508	32.9	2,775	16.6	1,908	11.4	1,434	8.6	954	5.7
	One child	243	3.1	816	10.3	981	12.4	1,164	14.7	1,077	13.6
	Two children	33	0.2	375	1.9	873	4.5	1,719	8.9	2,427	12.5
	Three children	3	0.0	114	0.8	390	2.7	750	5.2	1,254	8.7
	Four children	-	-	15	0.2	123	1.7	330	4.5	516	7.1
	Five children	-	-	6	0.2	39	1.3	123	4.1	198	6.5
	Six or more children	3	0.1	3	0.1	30	1.2	81	3.2	150	5.9
	Object to answering	93	4.0	108	4.6	120	5.2	189	8.1	216	9.3
	Not elsewhere included(2)	636	11.6	384	7.0	393	7.2	429	7.8	408	7.5
	Total	6,525	8.3	4,599	5.8	4,860	6.1	6,222	7.9	7,200	9.1
New Zealand	No children	127,560	27.7	97,428	21.1	65,100	14.1	46,014	10.0	28,836	6.3
	One child	4,182	2.4	15,777	8.9	21,531	12.2	29,202	16.5	25,065	14.1
	Two children	609	0.2	6,396	1.7	16,230	4.3	34,215	9.1	50,463	13.5
	Three children	69	0.0	1,581	0.6	6,543	2.6	14,490	5.7	24,834	9.8
	Four children	24	0.0	360	0.3	2,202	1.8	5,445	4.5	9,258	7.6
	Five children	9	0.0	72	0.1	717	1.5	1,989	4.0	3,504	7.1
	Six or more children	36	0.1	72	0.2	348	0.8	1,266	3.0	2,613	6.1
	Object to answering	2,190	4.8	2,376	5.2	2,538	5.6	3,570	7.8	4,446	9.7
	Not elsewhere included(2)	13,083	11.4	11,832	10.3	10,017	8.8	9,486	8.3	9,534	8.3
	Total	147,762	9.0	135,891	8.3	125,226	7.6	145,674	8.9	158,550	9.7

Location	Unit	Age Group (Years) of Mother									
		40–44		45–49		50–54		55–59		60–64	
		Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage
Nelson Marlborough	No children	825	4.9	702	4.2	573	3.4	462	2.8	384	2.3
	One child	804	10.1	648	8.2	552	7.0	435	5.5	285	3.6
	Two children	2,574	13.3	2,418	12.5	2,100	10.8	2,007	10.4	1,434	7.4
	Three children	1,563	10.8	1,716	11.9	1,635	11.3	1,548	10.7	1,407	9.8
	Four children	672	9.2	807	11.1	654	9.0	690	9.5	687	9.4
	Five children	267	8.8	264	8.7	255	8.4	270	8.9	276	9.1
	Six or more children	156	6.2	189	7.5	153	6.0	180	7.1	222	8.8
	Object to answering	225	9.7	267	11.5	231	9.9	240	10.3	195	8.4
	Not elsewhere included(2)	477	8.7	444	8.1	402	7.3	357	6.5	297	5.4
	Total	7,563	9.6	7,452	9.4	6,555	8.3	6,183	7.8	5,190	6.6
New Zealand	No children	22,218	4.8	18,129	3.9	13,647	3.0	10,785	2.3	7,362	1.6
	One child	20,712	11.7	16,119	9.1	11,901	6.7	9,288	5.2	5,697	3.2
	Two children	53,691	14.4	48,369	12.9	41,979	11.2	38,571	10.3	26,340	7.0
	Three children	31,185	12.3	32,211	12.7	29,451	11.6	28,899	11.4	23,145	9.1
	Four children	12,384	10.2	13,512	11.1	12,261	10.1	12,141	10.0	11,604	9.6
	Five children	4,569	9.3	4,647	9.4	4,116	8.4	4,221	8.6	4,431	9.0
	Six or more children	3,381	7.9	3,360	7.9	2,871	6.7	2,910	6.8	3,738	8.8
	Object to answering	5,157	11.3	5,001	10.9	4,458	9.8	4,476	9.8	3,351	7.3
	Not elsewhere included(2)	9,495	8.3	9,021	7.9	7,734	6.8	7,056	6.2	5,613	4.9
	Total	162,798	9.9	150,369	9.2	128,421	7.8	118,347	7.2	91,278	5.6

		Age Group (Years) of Mother										
Location	Unit	65–69		70–74		75–79		80–84		85 and over		Total
		Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number
Nelson Marlborough	No children	279	1.7	249	1.5	261	1.6	207	1.2	222	1.3	16,746
	One child	222	2.8	186	2.3	174	2.2	162	2.0	183	2.3	7,935
	Two children	1,068	5.5	729	3.8	663	3.4	510	2.6	432	2.2	19,356
	Three children	1,326	9.2	915	6.4	777	5.4	594	4.1	414	2.9	14,406
	Four children	831	11.4	705	9.7	576	7.9	405	5.6	273	3.7	7,284
	Five children	324	10.7	348	11.5	303	10.0	222	7.3	135	4.5	3,030
	Six or more children	300	11.8	342	13.5	318	12.6	243	9.6	159	6.3	2,532
	Object to answering	153	6.6	96	4.1	87	3.7	54	2.3	48	2.1	2,325
	Not elsewhere included(2)	282	5.2	228	4.2	243	4.4	234	4.3	258	4.7	5,472
	Total	4,782	6.0	3,795	4.8	3,399	4.3	2,631	3.3	2,127	2.7	79,083
New Zealand	No children	5,661	1.2	4,662	1.0	4,872	1.1	4,347	0.9	4,590	1.0	461,217
	One child	4,038	2.3	3,216	1.8	3,297	1.9	3,252	1.8	3,861	2.2	177,138
	Two children	17,883	4.8	11,928	3.2	10,374	2.8	8,787	2.3	8,169	2.2	373,998
	Three children	19,230	7.6	13,953	5.5	11,799	4.7	8,847	3.5	7,053	2.8	253,290
	Four children	12,048	9.9	10,335	8.5	8,883	7.3	6,072	5.0	4,707	3.9	121,236
	Five children	5,169	10.5	5,403	11.0	4,671	9.5	3,294	6.7	2,385	4.8	49,188
	Six or more children	4,914	11.5	5,580	13.1	5,364	12.6	3,615	8.5	2,529	5.9	42,594
	Object to answering	2,541	5.6	1,869	4.1	1,542	3.4	1,161	2.5	1,044	2.3	45,717
	Not elsewhere included(2)	4,947	4.3	4,116	3.6	4,056	3.5	3,744	3.3	4,668	4.1	114,399
	Total	76,434	4.7	61,056	3.7	54,858	3.3	43,113	2.6	39,000	2.4	1,638,783

(1) All figures are for the female census usually resident population aged 15 years and over.

(2) Includes Response Unidentifiable and Not Stated.

C= Confidential

Table 1.5.7: Individuals engaged in unpaid activities: Male (2006 Census)

		Unpaid Activity: Male									
Location	Unit	No activities	Household work, cooking, repairs, gardening, etc, for own household	Looking after a child who is a member of own household	Looking after a member of own household who is ill or has a disability	Looking after a child who does not live in own household	Helping someone who is ill or has a disability who does not live in own household	Other helping or voluntary work for or through any organisation, group or marae	Total people stated	Total people, not elsewhere included(3)	Total people
Nelson	Number	6,093	38,733	12,339	2,757	5,481	3,297	6,924	46,146	4,719	50,862
Marlborough	Percentage	12.0	76.2	24.3	5.4	10.8	6.5	13.6			
New Zealand	Number	196,767	1,122,597	372,858	86,427	155,106	88,233	188,835	1,362,123	159,465	1,521,591
	Percentage	12.9	73.8	24.5	5.7	10.2	5.8	12.4			

(1) All figures are for the census usually resident population aged 15 years and over

(2) Includes all of the people who stated each unpaid activity, whether as their only unpaid activity or as one of several unpaid activities. Where a person reported more than one unpaid activity, they have been counted in each applicable group.

(3) Includes Response Unidentifiable and Not Stated.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.5.8: Individuals engaged in unpaid activities: Female (2006 Census)

		Unpaid Activity: Female									
Location	Unit	No activities	Household work, cooking, repairs, gardening, etc, for own household	Looking after a child who is a member of own household	Looking after a member of own household who is ill or has a disability	Looking after a child who does not live in own household	Helping someone who is ill or has a disability who does not live in own household	Other helping or voluntary work for or through any organisation, group or marae	Total people stated	Total people, not elsewhere included(3)	Total people
Nelson	Number	3,534	44,343	16,761	4,299	10,623	6,213	9,339	48,813	4,614	53,427
Marlborough	Percentage	6.6	83.0	31.4	8.1	19.9	11.6	17.5			
New Zealand	Number	124,485	1,324,236	525,054	134,799	305,037	170,472	248,406	1,480,929	157,854	1,638,783
	Percentage	7.6	80.8	32.0	8.2	18.6	10.4	15.2			

(1) All figures are for the census usually resident population aged 15 years and over

(2) Includes all of the people who stated each unpaid activity, whether as their only unpaid activity or as one of several unpaid activities. Where a person reported more than one unpaid activity, they have been counted in each applicable group.

(3) Includes Response Unidentifiable and Not Stated.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.5.9: Individuals engaged in unpaid activities: Total (2006 Census)

		Unpaid Activity: Total									
Location	Unit	No activities	Household work, cooking, repairs, gardening, etc, for own household	Looking after a child who is a member of own household	Looking after a member of own household who is ill or has a disability	Looking after a child who does not live in own household	Helping someone who is ill or has a disability who does not live in own household	Other helping or voluntary work for or through any organisation, group or marae	Total people stated	Total people, not elsewhere included(3)	Total people
Nelson	Number	9,630	83,076	29,097	7,056	16,104	9,510	16,266	94,959	9,330	104,289
Marlborough	Percentage	9.2	79.7	27.9	6.8	15.4	9.1	15.6			
New Zealand	Number	321,252	2,446,833	897,915	221,226	460,143	258,705	437,241	2,843,052	317,319	3,160,374
	Percentage	10.2	77.4	28.4	7.0	14.6	8.2	13.8			

(1) All figures are for the census usually resident population aged 15 years and over

(2) Includes all of the people who stated each unpaid activity, whether as their only unpaid activity or as one of several unpaid activities. Where a person reported more than one unpaid activity, they have been counted in each applicable group.

(3) Includes Response Unidentifiable and Not Stated.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.6.1: Highest Qualification Gained (2006 Census)

Location	Unit	Highest qualification						
		No qualification	Level 1 certificate gained at school	Level 2 certificate gained at school	Level 3 or 4 certificate gained at school	Overseas secondary school qualification	Level 1, 2 or 3 certificate gained post- school	Level 4 certificate gained post-school
Nelson	Number	25,569	14,472	9,492	3,738	3,990	4,461	11,697
Marlborough	Percentage	24.5	13.9	9.1	3.6	3.8	4.3	11.2
New Zealand	Number	708,432	386,073	263,850	170,055	172,590	128,619	286,599
	Percentage	22.4	12.2	8.3	5.4	5.5	4.1	9.1

Location	Unit	Highest qualification							
		Level 5 diploma	Level 6 diploma	Bachelor degree and level 7 qualifications	Post-graduate and honours degree	Masters degree	Doctorate degree	Not elsewhere included(3)	Total
Nelson	Number	3,741	6,303	7,539	1,584	1,188	381	10,134	104,292
Marlborough	Percentage	3.6	6.0	7.2	1.5	1.1	0.4	9.7	
New Zealand	Number	110,496	157,869	315,846	55,458	59,703	16,770	328,014	3,160,371
	Percentage	3.5	5.0	10.0	1.8	1.9	0.5	10.4	

(1) All figures are for the census usually resident population aged 15 years and over.

(2) In 2006, Highest Qualification data has been output in two different ways. The categories in this table show Highest Qualification in a way that can be compared with data from previous census.

(3) Includes Highest Qualification Unidentifiable and Not Stated.

Note: This data has been randomly rounded to protect confidentiality. Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.6.2: Total Personal Income (2006 Census)

Location	Unit	Total personal income							
		Loss	Zero income	\$1–\$5,000	\$5,001– \$10,000	\$10,001– \$15,000	\$15,001– \$20,000	\$20,001– \$25,000	\$25,001– \$30,000
Nelson	Number	717	3,003	7,143	7,335	14,289	10,617	8,868	8,394
Marlborough	Percentage	0.7	2.9	6.9	7.0	13.7	10.2	8.5	8.1
New Zealand	Number	17,355	145,053	221,166	226,797	355,899	260,082	219,657	215,301
	Percentage	0.5	4.6	7.0	7.2	11.3	8.2	7.0	6.8

Location	Unit	Total personal income							
		\$30,001– \$35,000	\$35,001– \$40,000	\$40,001– \$50,000	\$50,001– \$70,000	\$70,001– \$100,000	\$100,001 or more	Not stated	Total
Nelson	Number	7,281	6,729	8,214	7,956	2,862	2,289	8,595	104,292
Marlborough	Percentage	7.0	6.5	7.9	7.6	2.7	2.2	8.2	
New Zealand	Number	201,300	202,770	262,299	281,157	125,118	105,525	320,892	3,160,371
	Percentage	6.4	6.4	8.3	8.9	4.0	3.3	10.2	

(1) All figures are for the census usually resident population aged 15 years and over.

(2) Total personal income relates to the 12 months ending 31 March 2006.

Note: This data has been randomly rounded to protect confidentiality. Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.6.3: Sources of Personal Income (2006 Census)

Sources of Personal Income								
Location	Unit	No source of income during that time	Wages, salary, commissions, bonuses etc	Self-employment or business	Interest, dividends, rent, other investments	Payments from a work accident insurer	NZ Superannuation or veterans pension	Other Superannuation, pensions, annuities
Nelson	Number	3,597	59,130	19,998	27,354	2,043	17,775	3,711
Marlborough	Percentage	3.5	56.7	19.2	26.2	2.0	17.0	3.6
New Zealand	Number	175,680	1,775,343	492,024	714,732	45,114	439,686	83,265
	Percentage	5.6	56.2	15.6	22.6	1.4	13.9	2.6

Sources of Personal Income										
Location	Unit	Unemployment benefit	Sickness benefit	Domestic purposes benefit	Invalids benefit	Student allowance	Other government benefits, payments or pension	Other sources of income	Not stated	Total
Nelson	Number	1,911	2,283	2,799	3,201	972	3,576	1,674	5,274	104,292
Marlborough	Percentage	1.8	2.2	2.7	3.1	0.9	3.4	1.6	5.1	
New Zealand	Number	92,169	70,554	93,090	75,357	64,284	96,357	66,411	198,135	3,160,371
	Percentage	2.9	2.2	2.9	2.4	2.0	3.0	2.1	6.3	

(1) All figures are for the census usually resident population aged 15 years and over.

(2) Sources of personal income relates to the 12 months ending 7 March 2006.

(3) Includes all of the people who stated each source of personal income, whether as their only source of personal income or as one of several sources of personal income.

Where a person reported more than one source of personal income, they have been counted in each applicable group.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.6.4: Work and Labour Force Status (2006 Census)

Work and Labour Force Status (2006 Census)									
Location	Unit	Employed full time	Employed part time	Total employed	Unemployed	Total labour force	Not in the labour force	Work and labour force status unidentifiable	Total
Nelson	Number	51,354	16,716	68,070	2,139	70,209	31,302	2,778	104,292
Marlborough	Percentage	75.4	24.6	97.0	3.1	67.3	30.0	2.7	
New Zealand	Number	1,531,020	454,758	1,985,775	106,497	2,092,275	961,788	106,311	3,160,371
	Percentage	77.1	22.9	94.9	5.1	66.2	30.4	3.4	

(1) All figures are for the census usually resident population aged 15 years and over.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.6.5: Occupation - ANZSCO V1.0 Major Group (2006 Census)

Location	Unit	Occupation (ANZSCO)								
		Managers	Professionals	Technicians and trades workers	Community and personal service workers	Clerical and administrative workers	Sales workers	Machinery operators and drivers	Labourers	Not elsewhere included(3)
Nelson	Number	11,685	10,287	8,481	5,427	6,984	5,586	3,927	12,339	3,357
Marlborough	Percentage	17.2	15.1	12.5	8.0	10.3	8.2	5.8	18.1	4.9
New Zealand	Number	340,530	374,328	241,857	156,468	240,813	186,057	114,324	218,991	112,404
	Percentage	17.1	18.9	12.2	7.9	12.1	9.4	5.8	11.0	5.7

(1) All figures are for the employed census usually resident population aged 15 years and over.

(2) Australian and New Zealand Standard Classification of Occupations (ANZSCO V1.0).

(3) Includes Response Unidentifiable, Response Outside Scope and Not Stated.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.6.6: Access to Telecommunications (2006 Census)

Location	Unit	Type of Telecommunication							
		Access to a cellphone / mobile phone	Access to a telephone	Access to a fax machine	Access to the Internet	No access to telecommunication systems	Total households stated	Total households, not elsewhere included(3)	Total households
Nelson	Number	34,614	44,577	13,641	28,776	900	48,558	1,599	50,157
Marlborough	Percentage	69.0	88.9	27.2	57.4	1.8	96.8	3.2	
New Zealand	Number	1,034,529	1,277,325	362,040	843,738	28,407	1,393,707	60,468	1,454,175
	Percentage	71.1	87.8	24.9	58.0	2.0	95.8	4.2	

(1) All figures are for households in private occupied dwellings.

(2) Households reporting more than one means of access to telecommunication systems have been counted in each stated category. Therefore the total number of responses in the table will be greater than the total number of households.

(3) Includes Response Unidentifiable and Not Stated.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.6.7: Number of Motor Vehicles per Household (2006 Census)

Location	Unit	Number of Motor Vehicles					Total
		No motor vehicle	One motor vehicle	Two motor vehicles	Three or more motor vehicles	Not elsewhere included(2)	
Nelson	Number	3,090	18,180	19,185	8,094	1,608	50,157
Marlborough	Percentage	6.2	36.3	38.3	16.1	3.2	
New Zealand	Number	112,758	527,844	531,627	222,204	59,745	1,454,175
	Percentage	7.8	36.3	36.6	15.3	4.1	

(1) All figures are for households in private occupied dwellings.

(2) Includes Response Unidentifiable and Not Stated.

Individual figures may not add up to totals, and values for the same data may vary in different tables.



Table 1.6.8: Housing Tenure (2006 Census)

Housing Tenure					
Dwelling owned or partly owned by usual resident(s)					
Location	Unit	Mortgage arrangements not further defined	Mortgage payments made by owner/ usual resident(s)	Mortgage payments not made by owner/ usual resident(s)	Total, dwelling owned or partly owned by usual resident(s)
Nelson	Number	1,041	14,328	13,191	28,563
Marlborough	Percentage	3.6	50.2	46.2	
New Zealand	Number	26,529	405,267	312,162	743,955
	Percentage	3.6	54.5	42.0	

Housing Tenure					
Dwelling not owned by usual resident(s)					
Location	Unit	Rental arrangements not further defined	Rent payments made by usual residents	Rent payments not made by usual residents	Total, dwelling not owned or partly owned by usual resident(s)
Nelson	Number	195	11,217	1,752	13,167
Marlborough	Percentage	1.5	85.2	13.3	
New Zealand	Number	6,315	388,275	57,378	451,965
	Percentage	1.4	85.9	12.7	

Dwelling held in a family trust by usual resident(s) <sup>(2)</sup>						Not elsewhere included <sup>(3)</sup>	Total
Location	Unit	Mortgage arrangements not further defined	Mortgage payments made by usual residents	Mortgage payments not made by usual residents	Total, dwelling held in a family trust by usual resident(s)		
Nelson	Number	492	1,971	3,321	5,784	2,646	50,157
Marlborough	Percentage	8.5	34.1	57.4			
New Zealand	Number	13,386	72,828	81,711	167,925	90,333	
	Percentage	8.0	43.4	48.7			

(1) 'Tenure of household' refers to the nature of the occupancy of a household in a private dwelling, at the time of the survey. It does not refer to the tenure of the land on which the dwelling is situated.

(2) Information on family trusts was first collected in 2006.

(3) Includes Response Unidentifiable and Not Stated

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

# Appendix 2

## Mortality Tables (2006-2008)

**NOTE A:** Counts less than 5 have ASR's presented as "0.0" or "#N/A"

**NOTE B:** There are two comparisons being made in the following tables

1. Māori Age-Standardised Rate against non-Māori Age-Standardised Rate  
within the District Health Board:

**Māori ASR statistically significantly higher than non-Māori ASR within DHB**

Māori ASR statistically significantly lower than non-Māori ASR within DHB

2. District Health Board Age-Standardised Rate  
against New Zealand Age-Standardised Rate:

**DHB ASR statistically significantly higher than national ASR**

DHB ASR statistically significantly lower than national ASR

Key:

*DHB = District Health Board*

*ASR = Age-Standardised Rate*

Table 2.1.1: Avoidable mortality, 0-74 years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	179.0	-124.1 - 482.1	79.7	16.1 - 143.3	84.9	23.7 - 146.1
	Male	219.2	-133.5 - 571.8	127.2	48.5 - 205.8	131.5	56.6 - 206.4
	Total	197.9	-33.0 - 428.7	103.2	52.7 - 153.6	107.9	59.7 - 156.2
New Zealand	Female	214.6	168.7 - 260.5	74.2	63.5 - 84.8	88.9	78.2 - 99.6
	Male	308.9	251.4 - 366.5	122.9	109.1 - 136.7	142.4	128.6 - 156.1
	Total	259.8	223.3 - 296.3	98.1	89.4 - 106.8	115.1	106.4 - 123.8

Table 2.1.2: All cardiovascular disease mortality, all ages, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	56.2	-107.5 - 219.9	35.1	14.2 - 55.9	36.1	15.4 - 56.9
	Male	101.5	-128.6 - 331.5	63.0	29.2 - 96.8	66.2	30.6 - 101.7
	Total	85.9	-70.1 - 242.0	48.8	29.2 - 68.4	50.9	30.5 - 71.2
New Zealand	Female	91.0	62.8 - 119.2	35.5	31.1 - 39.9	39.9	35.3 - 44.5
	Male	154.4	113.5 - 195.3	61.8	55.2 - 68.5	69.5	62.5 - 76.4
	Total	120.9	96.7 - 145.1	48.0	44.1 - 51.9	54.0	49.9 - 58.1

Table 2.1.3: Ischaemic heart disease mortality, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	66.6	-54.5 - 187.7	32.0	20.9 - 43.0	34.1	22.0 - 46.1
	Male	158.2	-33.2 - 349.7	88.6	61.0 - 116.3	93.0	64.9 - 121.2
	Total	108.3	-1.3 - 217.8	59.2	44.6 - 73.8	62.3	47.4 - 77.3
New Zealand	Female	100.9	81.1 - 120.8	35.4	32.8 - 38.1	40.3	37.4 - 43.1
	Male	215.7	183.2 - 248.1	83.4	78.2 - 88.5	93.7	88.4 - 99.1
	Total	154.3	136.0 - 172.6	58.0	55.2 - 60.8	65.5	62.5 - 68.4

Table 2.1.4: Stroke mortality, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	24.4	13.5 - 35.3	24.5	13.7 - 35.3
	Male	0.0	0.0 - 0.0	23.6	11.4 - 35.7	23.9	12.0 - 35.9
	Total	44.9	-44.6 - 134.4	24.3	16.2 - 32.4	24.5	16.5 - 32.5
New Zealand	Female	42.1	29.2 - 54.9	23.6	21.3 - 25.9	25.3	22.9 - 27.6
	Male	36.6	23.1 - 50.1	24.6	22.0 - 27.2	25.9	23.3 - 28.5
	Total	40.1	30.7 - 49.4	24.3	22.6 - 26.0	25.8	24.0 - 27.5

Table 2.1.5: All cancer mortality, all ages, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	72.8	-113.2 - 258.7	56.4	18.2 - 94.5	57.1	20.4 - 93.9
	Male	93.8	-131.0 - 318.6	62.6	26.8 - 98.4	63.9	28.2 - 99.6
	Total	81.5	-61.0 - 224.1	59.1	33.0 - 85.2	60.1	34.6 - 85.7
New Zealand	Female	110.5	78.4 - 142.6	55.1	47.9 - 62.3	59.9	52.8 - 67.0
	Male	113.3	78.5 - 148.0	67.9	60.2 - 75.5	71.6	64.1 - 79.1
	Total	111.3	87.9 - 134.7	60.7	55.4 - 65.9	65.0	59.8 - 70.1

Table 2.1.6: Lung cancer mortality, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	57.8	-55.7 - 171.4	17.8	4.2 - 31.5	19.4	5.6 - 33.3
	Male	67.6	-63.6 - 198.9	23.8	9.6 - 38.0	24.8	10.7 - 38.9
	Total	60.5	-23.0 - 144.1	20.7	10.8 - 30.5	22.0	12.1 - 31.9
New Zealand	Female	83.7	65.1 - 102.4	18.9	16.3 - 21.4	24.0	21.2 - 26.8
	Male	75.5	56.6 - 94.4	27.0	24.0 - 30.0	30.6	27.5 - 33.7
	Total	79.7	66.5 - 93.0	22.6	20.6 - 24.5	26.9	24.9 - 29.0

Table 2.1.7: Female breast cancer mortality, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	24.3	8.3 - 40.3	24.8	9.1 - 40.6
New Zealand	Female	42.9	29.4 - 56.4	24.1	20.8 - 27.5	25.9	22.6 - 29.1

Table 2.1.8: Prostate cancer mortality, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Male	0.0	0.0 - 0.0	13.9	4.7 - 23.1	14.6	5.2 - 24.0
New Zealand	Male	24.6	13.5 - 35.8	15.5	13.6 - 17.5	16.0	14.1 - 18.0

Table 2.1.9: Cervical cancer mortality, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	0.0	0.0 - 0.0	0.0	0.0 - 0.0
New Zealand	Female	6.6	1.2 - 12.0	2.2	1.1 - 3.3	2.6	1.5 - 3.7

Table 2.1.10: Colorectal cancer mortality, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	22.9	7.9 - 37.9	22.7	8.3 - 37.2
	Male	0.0	0.0 - 0.0	18.2	5.9 - 30.4	18.4	6.4 - 30.4
	Total	0.0	0.0 - 0.0	20.6	10.9 - 30.3	20.6	11.2 - 30.1
New Zealand	Female	14.6	6.9 - 22.3	17.2	14.7 - 19.6	17.0	14.7 - 19.3
	Male	21.9	11.7 - 32.2	22.3	19.5 - 25.1	22.3	19.6 - 25.0
	Total	18.1	11.8 - 24.4	19.6	17.7 - 21.4	19.5	17.7 - 21.2

Table 2.1.11: Melanoma mortality, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	7.8	-2.4 - 18.0	7.4	-2.1 - 16.8
	Male	0.0	0.0 - 0.0	14.8	1.2 - 28.5	14.1	1.3 - 27.0
	Total	0.0	0.0 - 0.0	11.2	2.8 - 19.6	10.6	2.8 - 18.5
New Zealand	Female	2.0	-0.8 - 4.8	4.7	3.3 - 6.0	4.4	3.1 - 5.7
	Male	2.4	-1.0 - 5.7	10.2	8.1 - 12.3	9.7	7.7 - 11.6
	Total	2.2	0.0 - 4.4	7.3	6.0 - 8.5	6.8	5.7 - 8.0

Table 2.1.12: Unintentional injury mortality, all ages, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	25.7	-93.6 - 145.1	10.9	-21.6 - 43.3	13.0	-19.2 - 45.3
	Male	37.4	-109.4 - 184.2	26.1	-15.8 - 68.0	27.2	-13.1 - 67.6
	Total	31.5	-62.8 - 125.7	18.3	-7.9 - 44.5	19.9	-5.6 - 45.5
New Zealand	Female	21.2	6.0 - 36.3	7.8	3.8 - 11.8	10.4	6.0 - 14.7
	Male	49.1	25.2 - 73.0	21.6	14.8 - 28.5	26.1	19.1 - 33.0
	Total	34.5	20.7 - 48.4	14.6	10.7 - 18.6	18.1	14.0 - 22.2

Table 2.1.13: Suicide, 5+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	9.4	-14.6 - 33.3	9.2	-12.6 - 31.0
	Male	33.8	-102.2 - 169.8	18.1	-13.8 - 50.0	20.3	-12.3 - 53.0
	Total	23.1	-55.9 - 102.1	13.7	-6.2 - 33.6	14.8	-5.0 - 34.5
New Zealand	Female	10.0	0.2 - 19.8	5.0	2.1 - 7.9	6.0	3.0 - 9.0
	Male	25.9	9.5 - 42.3	16.5	11.2 - 21.8	18.0	12.9 - 23.2
	Total	17.5	8.2 - 26.8	10.7	7.7 - 13.7	11.9	8.9 - 14.8

Table 2.1.14: Drowning, 0-14 years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	0.0	0.0 - 0.0	0.0	0.0 - 0.0
	Male	0.0	0.0 - 0.0	0.0	0.0 - 0.0	0.0	0.0 - 0.0
	Total	0.0	0.0 - 0.0	0.0	0.0 - 0.0	0.0	0.0 - 0.0
New Zealand	Female	0.0	0.0 - 0.0	0.7	-0.4 - 1.7	0.7	-0.2 - 1.5
	Male	2.1	-1.0 - 5.3	0.9	-0.3 - 2.1	1.2	0.0 - 2.4
	Total	1.4	-0.4 - 3.2	0.8	0.0 - 1.6	1.0	0.2 - 1.7

Table 2.1.15: Unintentional injury mortality, 15-24 years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	28.0	5.4 - 50.7	36.5	13.2 - 59.8
	Male	0.0	0.0 - 0.0	27.4	7.2 - 47.6	27.5	8.8 - 46.2
	Total	0.0	0.0 - 0.0	27.6	12.6 - 42.7	31.7	16.9 - 46.5
New Zealand	Female	28.5	21.3 - 35.7	10.3	8.1 - 12.5	14.0	11.8 - 16.3
	Male	64.5	53.3 - 75.6	33.4	29.6 - 37.2	39.0	35.3 - 42.7
	Total	46.0	39.5 - 52.6	22.0	19.8 - 24.2	26.6	24.4 - 28.8

Table 2.1.16: Suicide mortality, 15-24 years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	0.0	0.0 - 0.0	0.0	0.0 - 0.0
	Male	0.0	0.0 - 0.0	24.7	4.8 - 44.6	30.6	9.7 - 51.4
	Total	0.0	0.0 - 0.0	20.6	7.5 - 33.8	22.6	9.7 - 35.5
New Zealand	Female	19.8	13.8 - 25.8	6.6	4.8 - 8.3	9.2	7.3 - 11.0
	Male	40.1	31.4 - 48.9	23.6	20.4 - 26.8	26.7	23.6 - 29.8
	Total	29.7	24.5 - 35.0	15.2	13.4 - 17.0	18.0	16.2 - 19.8

Table 2.1.17: Ischaemic heart disease mortality, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	409.2	398.9 - 419.6	416.2	405.7 - 426.6
	Male	0.0	0.0 - 0.0	802.8	784.8 - 820.8	796.4	778.8 - 814.1
	Total	486.2	423.6 - 548.8	593.8	583.6 - 603.9	593.5	583.4 - 603.5
New Zealand	Female	893.9	878.3 - 909.5	394.7	392.6 - 396.7	422.3	420.2 - 424.4
	Male	1416.1	1393.1 - 1439.1	728.8	725.4 - 732.2	765.7	762.3 - 769.1
	Total	1123.8	1110.5 - 1137.0	545.4	543.5 - 547.3	577.2	575.2 - 579.1

Table 2.1.18: Stroke mortality, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	275.9	267.4 - 284.3	272.8	264.5 - 281.1
	Male	0.0	0.0 - 0.0	244.8	235.9 - 253.8	253.3	244.2 - 262.5
	Total	530.4	444.4 - 616.4	264.4	258.3 - 270.5	267.0	260.9 - 273.2
New Zealand	Female	339.9	330.4 - 349.4	245.7	244.2 - 247.3	251.4	249.9 - 253.0
	Male	255.5	245.6 - 265.3	257.9	256.0 - 259.8	259.1	257.2 - 261.0
	Total	307.1	300.2 - 314.0	254.5	253.3 - 255.8	258.1	256.9 - 259.4

Table 2.1.19: Lung cancer mortality, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	627.7	526.3 - 729.1	132.7	125.1 - 140.4	150.1	141.9 - 158.2
	Male	0.0	0.0 - 0.0	176.8	167.7 - 185.9	185.7	176.6 - 194.9
	Total	606.1	533.4 - 678.7	152.2	146.3 - 158.1	165.1	159.0 - 171.2
New Zealand	Female	494.7	482.8 - 506.7	131.6	130.0 - 133.1	153.4	151.8 - 155.0
	Male	501.9	488.6 - 515.1	228.8	226.8 - 230.9	245.3	243.2 - 247.4
	Total	497.3	488.5 - 506.2	175.1	173.8 - 176.4	194.3	193.0 - 195.6

Table 2.1.20: Female breast cancer mortality, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	99.7	92.8 - 106.6	103.5	96.5 - 110.4
New Zealand	Female	174.2	167.1 - 181.3	95.3	94.0 - 96.6	99.8	98.5 - 101.1

Table 2.1.21: Prostate cancer mortality, all ages, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Male	0.0	0.0 - 0.0	6.3	-2.9 - 15.5	6.6	-2.8 - 16.0
New Zealand	Male	11.1	0.0 - 22.3	7.0	5.1 - 9.0	7.3	5.3 - 9.2

Table 2.1.22: Cervical cancer mortality, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	0.0	0.0 - 0.0	0.0	0.0 - 0.0
New Zealand	Female	14.2	12.2 - 16.3	8.1	7.7 - 8.4	8.5	8.1 - 8.8

Table 2.1.23: Colorectal cancer mortality, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	179.6	170.3 - 188.9	179.7	170.5 - 188.9
	Male	0.0	0.0 - 0.0	168.1	159.2 - 177.1	163.9	155.3 - 172.6
	Total	0.0	0.0 - 0.0	173.9	167.5 - 180.4	171.9	165.6 - 178.2
New Zealand	Female	97.5	92.3 - 102.7	133.3	131.8 - 134.8	131.3	129.8 - 132.7
	Male	155.9	148.5 - 163.3	179.8	177.9 - 181.6	178.9	177.1 - 180.7
	Total	125.0	120.6 - 129.4	154.4	153.3 - 155.6	152.9	151.8 - 154.1

Table 2.1.24: Melanoma mortality, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	28.4	25.7 - 31.1	27.9	25.2 - 30.5
	Male	0.0	0.0 - 0.0	63.6	58.5 - 68.7	62.2	57.2 - 67.2
	Total	0.0	0.0 - 0.0	45.1	42.3 - 48.0	44.2	41.4 - 46.9
New Zealand	Female	15.5	13.4 - 17.6	25.8	25.1 - 26.4	25.3	24.7 - 25.9
	Male	14.0	11.8 - 16.2	66.3	65.2 - 67.4	64.1	63.0 - 65.1
	Total	15.4	13.9 - 17.0	43.8	43.2 - 44.4	42.4	41.9 - 43.0

Table 2.1.25: COPD mortality, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	147.6	140.3 - 154.9	161.5	153.7 - 169.2
	Male	0.0	0.0 - 0.0	191.0	182.7 - 199.4	187.6	179.4 - 195.7
	Total	0.0	0.0 - 0.0	163.4	158.0 - 168.9	168.7	163.2 - 174.2
New Zealand	Female	430.9	419.9 - 441.9	146.6	145.2 - 148.1	162.8	161.3 - 164.3
	Male	480.0	466.6 - 493.4	219.1	217.3 - 220.9	231.7	229.9 - 233.6
	Total	444.2	435.9 - 452.5	175.0	173.9 - 176.1	189.4	188.2 - 190.5



Table 2.2.1: Leading causes of avoidable mortality, males and females, 0-74 years, 2006-08

	Nelson/Marlborough DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Breast cancer (female only)	10.4	Breast cancer (female only)	10.7
	Colorectal cancer	8.6	Lung cancer	9.3
	Suicide and self-inflicted injuries	8.1	Ischaemic heart disease	8.1
	Lung cancer	7.2	Colorectal cancer	5.9
	Motor vehicle accidents	6.6	Diabetes	5.8
Male	Ischaemic heart disease	27.4	Ischaemic heart disease	27.3
	Suicide and self-inflicted injuries	17.6	Suicide and self-inflicted injuries	15.7
	Motor vehicle accidents	12.6	Motor vehicle accidents	12.3
	Lung cancer	8.9	Lung cancer	10.8
	Diabetes	7.7	Diabetes	8.3
Total	Ischaemic heart disease	16.0	Ischaemic heart disease	17.4
	Suicide and self-inflicted injuries	12.9	Suicide and self-inflicted injuries	10.4
	Motor vehicle accidents	9.5	Lung cancer	10.0
	Lung cancer	8.1	Motor vehicle accidents	8.6
	Colorectal cancer	7.4	Diabetes	7.0

Table 2.2.2: Leading causes of avoidable mortality, by ethnicity, 0-74 years, 2006-08

	Nelson/Marlborough DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Ischaemic heart disease	41.0	Ischaemic heart disease	51.4
	Lung cancer	22.8	Lung cancer	31.6
	Suicide and self-inflicted injuries	20.3	Diabetes	26.8
	COPD	15.8	Motor vehicle accidents	17.8
	#N/A	#N/A	Suicide and self-inflicted injuries	15.4
non-Māori	Ischaemic heart disease	14.5	Ischaemic heart disease	14.3
	Suicide and self-inflicted injuries	11.9	Suicide and self-inflicted injuries	9.3
	Motor vehicle accidents	9.0	Lung cancer	8.1
	Birth defects	8.1	Motor vehicle accidents	6.7
	Lung cancer	7.5	Colorectal cancer	6.7

Table 2.2.3: Leading causes of mortality, males and females, 65+ years, 2006-08

	Nelson/Marlborough DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Ischaemic heart disease	416.2	Ischaemic heart disease	418.5
	Stroke	227.0	Stroke	206.0
	Colorectal cancer	179.7	CORD	172.8
	Lung cancer	150.1	Lung cancer	153.4
	Breast cancer (female only)	103.5	Colorectal cancer	131.3
Male	Ischaemic heart disease	792.8	Ischaemic heart disease	757.4
	Stroke	221.7	Lung cancer	245.3
	CORD	200.6	CORD	238.4
	Lung cancer	185.7	Stroke	207.5
	Colorectal cancer	163.9	Colorectal cancer	178.9
Total	Ischaemic heart disease	592.1	Ischaemic heart disease	571.4
	Stroke	226.9	Stroke	210.0
	CORD	176.2	CORD	197.9
	Colorectal cancer	171.9	Lung cancer	194.3
	Lung cancer	165.1	Colorectal cancer	152.9

Table 2.2.4: Leading causes of mortality, by ethnicity, 65+ years, 2006-08

	Nelson/Marlborough DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Lung cancer	606.1	Ischaemic heart disease	1109.6
	Stroke	530.4	Lung cancer	497.3
	Ischaemic heart disease	486.2	CORD	465.0
	CORD	412.7	Diabetes	389.4
	#N/A	#N/A	Stroke	247.1
non-Māori	Ischaemic heart disease	592.4	Ischaemic heart disease	540.1
	Stroke	223.6	Stroke	207.2
	Colorectal cancer	173.9	CORD	182.8
	CORD	169.0	Lung cancer	175.1
	Lung cancer	152.2	Colorectal cancer	154.4

# Appendix 3

## Hospitalisation Tables (2007-2009)

**NOTE A:** Counts less than 5 have ASR's presented as "0.0" or "#N/A"

**NOTE B:** There are two comparisons being made in the following tables

1. Māori Age-Standardised Rate against non-Māori Age-Standardised Rate  
within the District Health Board:

**Māori ASR statistically significantly higher than non-Māori ASR within DHB**

Māori ASR statistically significantly lower than non-Māori ASR within DHB

2. District Health Board Age-Standardised Rate  
against New Zealand Age-Standardised Rate:

**DHB ASR statistically significantly higher than national ASR**

DHB ASR statistically significantly lower than national ASR

Key:

*DHB = District Health Board*

*ASR = Age-Standardised Rate*

Table 3.1.1: Avoidable hospitalisations, 0-74 years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	3688.6	2184.1 - 5193.0	2897.1	2384.4 - 3409.8	2972.8	2491.3 - 3454.2
	Male	3936.4	2363.1 - 5509.8	3493.0	2939.3 - 4046.7	3554.5	3034.7 - 4074.3
	Total	3813.5	2725.4 - 4901.7	3197.4	2819.8 - 3575.0	3265.7	2911.2 - 3620.2
New Zealand	Female	4904.4	4671.6 - 5137.1	3156.7	3061.1 - 3252.3	3408.8	3321.6 - 3496.1
	Male	4974.2	4736.0 - 5212.5	3535.8	3435.8 - 3635.9	3746.4	3655.7 - 3837.2
	Total	4946.3	4779.6 - 5112.9	3347.1	3277.8 - 3416.3	3578.9	3516.0 - 3641.9

Table 3.1.2: All cardiovascular disease hospitalisations, all ages, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	542.7	19.4 - 1065.9	395.2	264.9 - 525.5	399.2	276.8 - 521.6
	Male	707.7	82.2 - 1333.2	698.2	539.1 - 857.3	702.0	549.7 - 854.3
	Total	641.9	223.0 - 1060.8	543.1	440.7 - 645.5	546.9	449.6 - 644.2
New Zealand	Female	725.3	642.2 - 808.5	376.4	354.5 - 398.2	409.5	388.5 - 430.5
	Male	968.2	865.8 - 1070.6	638.8	610.7 - 666.9	673.8	646.7 - 700.8
	Total	842.1	776.8 - 907.4	503.2	485.5 - 520.9	536.9	519.9 - 553.9

Table 3.1.3: Ischaemic heart disease hospitalisation, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	374.2	89.9 - 658.6	218.9	173.6 - 264.3	224.6	180.0 - 269.3
	Male	600.3	223.5 - 977.1	629.0	544.3 - 713.6	628.3	546.3 - 710.3
	Total	487.0	250.6 - 723.4	419.8	372.3 - 467.3	422.1	375.9 - 468.3
New Zealand	Female	395.2	354.7 - 435.7	199.3	190.9 - 207.6	216.9	208.4 - 225.3
	Male	601.9	548.3 - 655.5	509.5	494.8 - 524.1	521.1	506.9 - 535.3
	Total	494.0	460.9 - 527.2	349.5	341.1 - 357.8	363.8	355.6 - 372.0

Table 3.1.4: Stroke hospitalisation, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	103.1	-44.6 - 250.8	72.5	47.8 - 97.1	73.8	49.3 - 98.2
	Male	138.7	-51.0 - 328.4	119.3	82.6 - 155.9	122.2	85.4 - 159.0
	Total	130.8	-1.3 - 262.9	94.8	72.9 - 116.6	96.9	75.0 - 118.7
New Zealand	Female	215.4	185.6 - 245.2	92.6	86.7 - 98.4	103.2	97.3 - 109.2
	Male	171.3	142.5 - 200.0	128.3	121.3 - 135.4	132.8	125.9 - 139.7
	Total	196.1	175.2 - 217.0	109.7	105.1 - 114.2	117.3	112.8 - 121.8

Table 3.1.5: All cancer hospitalisations, all ages, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	459.0	-43.8 - 961.7	454.3	324.3 - 584.3	464.1	335.8 - 592.4
	Male	372.1	-78.5 - 822.7	547.0	408.1 - 686.0	536.2	406.3 - 666.1
	Total	415.0	78.6 - 751.5	500.0	404.4 - 595.5	499.1	407.6 - 590.6
New Zealand	Female	456.5	389.7 - 523.3	348.8	326.7 - 370.9	359.1	338.6 - 379.5
	Male	428.9	360.8 - 497.0	391.1	368.7 - 413.5	396.9	375.9 - 417.8
	Total	442.7	395.1 - 490.3	367.4	351.7 - 383.1	375.5	360.9 - 390.1

Table 3.1.6: Lung cancer hospitalisation, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	115.6	-45.1 - 276.3	52.3	29.3 - 75.3	54.1	31.4 - 76.8
	Male	162.9	-35.4 - 361.3	52.7	30.9 - 74.5	56.8	34.5 - 79.1
	Total	134.7	10.8 - 258.5	52.2	36.4 - 68.1	55.2	39.3 - 71.1
New Zealand	Female	136.6	112.7 - 160.5	38.6	34.8 - 42.4	46.7	42.7 - 50.7
	Male	121.7	97.7 - 145.8	46.7	42.7 - 50.7	52.5	48.4 - 56.6
	Total	128.9	112.0 - 145.7	42.2	39.4 - 44.9	49.1	46.3 - 52.0

Table 3.1.7: Female breast cancer hospitalisation, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	133.7	-39.9 - 307.4	157.0	110.8 - 203.3	155.8	111.3 - 200.2
New Zealand	Female	168.3	141.3 - 195.3	103.1	96.0 - 110.2	109.6	102.7 - 116.6

Table 3.1.8: Prostate cancer hospitalisation, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Male	128.7	-53.4 - 310.8	114.3	83.8 - 144.9	114.9	84.9 - 145.0
New Zealand	Male	76.5	57.6 - 95.4	60.9	56.4 - 65.3	61.9	57.6 - 66.2

Table 3.1.9: Cervical cancer hospitalisation, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	168.0	-34.6 - 370.6	18.1	0.2 - 35.9	30.1	7.0 - 53.2
New Zealand	Female	44.6	30.2 - 59.0	17.6	14.2 - 21.1	20.9	17.4 - 24.3

Table 3.1.10: Colorectal cancer hospitalisation, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	84.6	52.4 - 116.9	80.7	50.5 - 110.8
	Male	51.8	-56.3 - 159.8	76.8	48.7 - 104.8	76.0	49.0 - 103.0
	Total	28.4	-26.5 - 83.2	80.8	59.3 - 102.3	78.4	58.1 - 98.7
New Zealand	Female	40.1	27.1 - 53.0	52.5	48.0 - 56.9	51.8	47.6 - 56.0
	Male	50.7	35.2 - 66.2	63.3	58.4 - 68.2	62.7	58.0 - 67.3
	Total	45.3	35.2 - 55.3	57.5	54.2 - 60.8	56.9	53.8 - 60.0

Table 3.1.11: Melanoma hospitalisations, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	68.3	-55.4 - 192.1	225.3	171.8 - 278.9	217.6	167.1 - 268.0
	Male	50.2	-54.6 - 154.9	311.4	249.5 - 373.4	299.7	241.4 - 358.0
	Total	60.1	-21.8 - 141.9	266.5	225.7 - 307.2	256.7	218.3 - 295.1
New Zealand	Female	21.2	11.6 - 30.8	107.6	100.9 - 114.3	100.4	94.3 - 106.5
	Male	22.4	12.0 - 32.8	167.6	159.4 - 175.8	156.9	149.4 - 164.4
	Total	21.5	14.6 - 28.5	135.4	130.1 - 140.6	126.5	121.7 - 131.2

Table 3.1.12: Unintentional injury hospitalisation, all ages, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	847.9	129.6 - 1566.3	924.4	644.6 - 1204.2	918.3	660.2 - 1176.5
	Male	1568.2	591.4 - 2545.0	1848.9	1456.4 - 2241.3	1820.3	1457.8 - 2182.7
	Total	1214.4	604.8 - 1824.0	1395.5	1152.7 - 1638.4	1377.4	1153.3 - 1601.5
New Zealand	Female	1344.0	1220.6 - 1467.5	1133.4	1077.2 - 1189.6	1174.8	1124.1 - 1225.5
	Male	2485.9	2315.3 - 2656.6	2015.8	1942.3 - 2089.3	2095.7	2028.9 - 2162.6
	Total	1900.9	1796.5 - 2005.3	1575.3	1529.0 - 1621.6	1634.3	1592.4 - 1676.3

Table 3.1.13: Self-harm hospitalisation, 5+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	104.9	-126.6 - 336.3	161.5	55.0 - 268.1	154.1	57.3 - 250.8
	Male	55.5	-112.3 - 223.3	55.5	-4.8 - 115.8	56.7	-0.8 - 114.1
	Total	80.2	-62.5 - 222.8	106.9	47.0 - 166.9	104.3	48.9 - 159.7
New Zealand	Female	153.2	115.2 - 191.3	146.7	129.7 - 163.6	147.8	132.4 - 163.3
	Male	103.2	70.5 - 136.0	78.7	66.6 - 90.9	82.7	71.3 - 94.2
	Total	128.6	103.5 - 153.8	112.6	102.2 - 123.0	115.4	105.8 - 124.9

Table 3.1.14: Unintentional injury hospitalisation, 15-24 years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	1074.4	749.4 - 1399.5	796.5	678.6 - 914.4	838.7	727.2 - 950.2
	Male	2575.8	2069.7 - 3081.8	2853.9	2642.9 - 3064.9	2816.2	2621.3 - 3011.0
	Total	1834.6	1532.1 - 2137.1	1888.0	1763.1 - 2013.0	1880.9	1765.4 - 1996.4
New Zealand	Female	1222.0	1174.8 - 1269.3	1013.0	991.5 - 1034.4	1053.4	1033.9 - 1073.0
	Male	3471.2	3389.9 - 3552.4	2673.9	2639.7 - 2708.0	2819.5	2788.0 - 2851.1
	Total	2326.1	2279.6 - 2372.7	1856.8	1836.5 - 1877.1	1945.2	1926.5 - 1963.8

Table 3.1.15: Ischaemic heart disease hospitalisation, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	2372.0	2170.9 - 2573.0	1502.3	1476.1 - 1528.5	1529.2	1503.1 - 1555.4
	Male	2049.5	1856.4 - 2242.6	3235.8	3195.4 - 3276.3	3211.9	3172.2 - 3251.7
	Total	2279.1	2134.2 - 2424.0	2333.8	2309.9 - 2357.7	2335.3	2311.8 - 2358.8
New Zealand	Female	2028.0	2003.9 - 2052.1	1374.4	1369.6 - 1379.2	1414.2	1409.5 - 1419.0
	Male	2276.0	2247.8 - 2304.3	2600.5	2593.3 - 2607.7	2586.3	2579.3 - 2593.2
	Total	2152.3	2133.9 - 2170.7	1946.8	1942.6 - 1951.0	1960.3	1956.2 - 1964.4

Table 3.1.16: Stroke hospitalisation, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	577.4	484.7 - 670.0	560.1	546.6 - 573.7	556.1	542.8 - 569.3
	Male	772.2	649.8 - 894.5	818.0	800.1 - 835.9	821.2	803.5 - 839.0
	Total	798.4	705.0 - 891.8	677.2	666.2 - 688.3	676.9	666.0 - 687.8
New Zealand	Female	1210.9	1192.6 - 1229.2	649.9	646.8 - 652.9	680.0	676.9 - 683.0
	Male	1008.7	989.8 - 1027.6	913.7	909.7 - 917.7	923.4	919.5 - 927.3
	Total	1137.9	1124.6 - 1151.2	772.5	770.0 - 774.9	793.1	790.7 - 795.6

Table 3.1.17: Lung cancer hospitalisations, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	1130.1	993.2 - 1266.9	346.8	333.1 - 360.6	368.3	354.4 - 382.3
	Male	1004.6	869.5 - 1139.8	303.2	291.3 - 315.2	320.3	308.2 - 332.5
	Total	1032.6	938.9 - 1126.2	319.8	310.7 - 328.8	339.0	329.8 - 348.1
New Zealand	Female	673.0	658.9 - 687.0	235.7	233.6 - 237.8	263.0	260.8 - 265.1
	Male	727.2	711.2 - 743.2	364.2	361.5 - 366.8	384.6	381.9 - 387.3
	Total	691.3	680.9 - 701.7	293.2	291.5 - 294.9	317.0	315.3 - 318.7

Table 3.1.18: Female breast cancer hospitalisation, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	<b>706.2</b>	596.0 - 816.4	420.5	406.2 - 434.8	<b>433.4</b>	419.1 - 447.8
New Zealand	Female	354.3	344.1 - 364.5	300.5	298.0 - 302.9	303.8	301.5 - 306.2

Table 3.1.19: Prostate cancer hospitalisation, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Male	0.0	0.0 - 0.0	30.1	9.0 - 51.2	30.0	9.2 - 50.7
New Zealand	Male	21.8	6.9 - 36.8	17.3	14.2 - 20.5	17.6	14.5 - 20.7

Table 3.1.20: Cervical cancer hospitalisation, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	0.0	0.0 - 0.0	0.0	0.0 - 0.0
New Zealand	Female	28.7	25.8 - 31.5	20.8	20.2 - 21.4	21.2	20.6 - 21.8

Table 3.1.21: Colorectal cancer hospitalisation, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	520.9	505.0 - 536.7	<b>507.4</b>	492.1 - 522.8
	Male	0.0	0.0 - 0.0	533.6	517.5 - 549.7	<b>529.9</b>	514.1 - 545.7
	Total	0.0	0.0 - 0.0	525.8	514.6 - 537.1	<b>517.4</b>	506.4 - 528.4
New Zealand	Female	190.3	182.9 - 197.6	370.6	368.1 - 373.2	360.3	357.9 - 362.7
	Male	315.7	305.3 - 326.1	471.8	468.8 - 474.8	465.2	462.3 - 468.1
	Total	251.0	244.8 - 257.3	416.6	414.7 - 418.6	408.1	406.3 - 410.0

Table 3.1.22: Melanoma hospitalisation, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	1161.6	1138.7 - 1184.5	<b>1141.7</b>	1119.3 - 1164.0
	Male	0.0	0.0 - 0.0	1850.4	1820.7 - 1880.1	<b>1809.4</b>	1780.5 - 1838.3
	Total	<b>304.5</b>	256.3 - 352.7	1483.7	1465.1 - 1502.3	<b>1452.9</b>	1434.8 - 1470.9
New Zealand	Female	100.0	94.6 - 105.3	619.6	616.4 - 622.7	592.8	589.8 - 595.8
	Male	139.6	132.4 - 146.7	1161.9	1157.3 - 1166.4	1111.3	1107.0 - 1115.7
	Total	115.1	110.9 - 119.4	862.9	860.1 - 865.6	824.6	822.1 - 827.2



Table 3.1.23: COPD hospitalisation, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	2262.5	2062.5 - 2462.4	634.8	617.8 - 651.9	681.5	664.0 - 699.0
	Male	0.0	0.0 - 0.0	753.2	734.8 - 771.5	755.9	737.7 - 774.1
	Total	1472.6	1356.4 - 1588.8	680.6	668.2 - 693.0	705.9	693.4 - 718.4
New Zealand	Female	2867.8	2839.2 - 2896.5	775.7	772.0 - 779.3	895.6	891.7 - 899.4
	Male	2751.7	2720.6 - 2782.7	1062.7	1058.3 - 1067.1	1151.7	1147.3 - 1156.2
	Total	2801.2	2780.3 - 2822.1	897.7	894.8 - 900.5	1002.7	999.7 - 1005.6

Table 3.1.24: Diabetes hospitalisations, 15+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	100.6	-74.2 - 275.4	75.6	25.2 - 125.9	72.4	27.7 - 117.1
	Male	98.5	-88.3 - 285.2	101.3	49.2 - 153.4	99.4	50.6 - 148.2
	Total	103.1	-31.2 - 237.4	87.7	51.8 - 123.6	85.1	52.3 - 117.9
New Zealand	Female	283.9	242.9 - 324.9	99.7	90.4 - 109.0	115.1	106.0 - 124.1
	Male	336.2	288.8 - 383.7	120.6	110.6 - 130.5	137.8	128.0 - 147.7
	Total	308.1	277.1 - 339.1	109.5	102.7 - 116.3	125.8	119.1 - 132.4

Table 3.1.25: Diabetes complications - renal failure hospitalisations, 15+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	2.4	-3.8 - 8.6	2.8	-3.5 - 9.1
	Male	0.0	0.0 - 0.0	4.8	-4.7 - 14.4	4.6	-4.3 - 13.5
	Total	0.0	0.0 - 0.0	3.5	-2.0 - 9.1	3.6	-1.7 - 8.9
New Zealand	Female	43.7	27.8 - 59.6	7.4	5.2 - 9.6	10.3	7.9 - 12.7
	Male	73.0	51.1 - 95.0	9.0	6.7 - 11.3	14.3	11.4 - 17.1
	Total	57.4	44.1 - 70.7	8.1	6.5 - 9.7	12.2	10.3 - 14.0

Table 3.1.26: Asthma hospitalisations, 15+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	128.5	-81.2 - 338.2	55.7	7.1 - 104.2	62.6	13.7 - 111.5
	Male	83.4	-97.4 - 264.1	31.6	-5.4 - 68.5	36.3	-1.1 - 73.8
	Total	107.0	-32.6 - 246.6	43.7	13.3 - 74.2	49.3	18.7 - 80.0
New Zealand	Female	257.0	216.0 - 298.0	96.1	85.2 - 106.9	119.1	108.1 - 130.1
	Male	130.2	99.5 - 161.0	52.3	44.1 - 60.5	62.9	54.7 - 71.2
	Total	196.4	170.4 - 222.4	74.6	67.8 - 81.4	91.6	84.7 - 98.5

Table 3.1.27: COPD hospitalisation, 45+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	614.8	387.6 - 842.1	230.7	203.9 - 257.5	243.6	216.7 - 270.6
	Male	261.3	111.9 - 410.7	244.3	217.5 - 271.0	247.7	221.2 - 274.3
	Total	451.4	311.2 - 591.5	234.8	215.9 - 253.6	243.1	224.3 - 262.0
New Zealand	Female	1174.3	1132.4 - 1216.2	271.9	266.3 - 277.5	340.6	334.4 - 346.7
	Male	934.7	894.6 - 974.8	314.2	308.3 - 320.1	356.1	350.0 - 362.3
	Total	1057.1	1028.2 - 1086.0	288.8	284.7 - 292.8	344.4	340.0 - 348.7

Table 3.1.28: Asthma hospitalisation, 0-14 years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	282.1	10.4 - 553.8	200.3	101.4 - 299.3	213.3	119.6 - 307.0
	Male	869.4	394.9 - 1343.9	306.8	187.0 - 426.6	393.6	268.6 - 518.6
	Total	578.0	303.7 - 852.3	254.5	176.6 - 332.5	305.0	226.5 - 383.4
New Zealand	Female	505.8	456.8 - 554.9	302.4	280.6 - 324.3	353.4	332.9 - 373.8
	Male	727.8	670.4 - 785.1	454.9	428.6 - 481.1	523.7	499.3 - 548.1
	Total	619.5	581.7 - 657.4	380.3	363.2 - 397.4	440.4	424.5 - 456.4

Table 3.1.29: Poisoning hospitalisation, 0-14 years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	66.9	9.2 - 124.6	62.1	11.0 - 113.2
	Male	90.8	-65.5 - 247.1	120.5	44.0 - 196.9	115.9	46.9 - 184.9
	Total	63.5	-28.9 - 156.0	94.1	46.0 - 142.1	89.3	46.3 - 132.4
New Zealand	Female	89.3	68.7 - 109.8	83.5	72.0 - 95.1	84.8	74.8 - 94.9
	Male	98.1	77.1 - 119.2	99.7	87.4 - 112.1	99.3	88.7 - 110.0
	Total	93.8	79.0 - 108.5	91.8	83.3 - 100.3	92.2	84.9 - 99.6

Table 3.1.30: Burns hospitalisation, 0-14 years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	0.0	0.0 - 0.0	0.0	0.0 - 0.0
	Male	0.0	0.0 - 0.0	0.0	0.0 - 0.0	12.8	-9.4 - 34.9
	Total	0.0	0.0 - 0.0	7.5	-5.5 - 20.6	9.2	-4.3 - 22.7
New Zealand	Female	8.0	1.8 - 14.2	5.5	2.6 - 8.4	6.1	3.4 - 8.8
	Male	21.6	11.8 - 31.4	8.1	4.7 - 11.6	11.4	7.9 - 14.9
	Total	15.0	9.1 - 20.9	6.9	4.6 - 9.1	8.8	6.6 - 11.1

Table 3.1.31: Falls hospitalisation, 0-14 years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	311.2	28.4 - 594.0	420.3	280.0 - 560.7	403.4	277.0 - 529.8
	Male	449.6	121.3 - 777.9	647.0	480.2 - 813.8	617.0	467.0 - 766.9
	Total	383.5	165.2 - 601.7	537.1	427.6 - 646.7	513.7	415.1 - 612.4
New Zealand	Female	662.4	606.4 - 718.4	619.9	589.1 - 650.8	630.7	603.6 - 657.7
	Male	882.6	819.7 - 945.5	869.6	834.2 - 905.0	872.9	842.0 - 903.8
	Total	775.6	733.3 - 817.8	747.8	724.3 - 771.4	754.9	734.3 - 775.5

Table 3.1.32: Falls hospitalisation, 65+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	1505.2	1346.8 - 1663.5	2261.8	2233.9 - 2289.7	2257.3	2229.7 - 2284.9
	Male	0.0	0.0 - 0.0	1715.1	1689.8 - 1740.4	1693.9	1669.1 - 1718.8
	Total	979.9	882.7 - 1077.1	2012.3	1993.5 - 2031.2	1999.0	1980.5 - 2017.6
New Zealand	Female	1688.1	1666.7 - 1709.5	2432.8	2427.1 - 2438.6	2402.9	2397.4 - 2408.4
	Male	1417.4	1394.4 - 1440.3	1746.9	1741.7 - 1752.2	1739.8	1734.6 - 1744.9
	Total	1583.8	1568.1 - 1599.5	2134.6	2130.7 - 2138.5	2115.7	2111.9 - 2119.5

Table 3.1.33: Musculoskeletal disease hospitalisation, 65+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	1656.4	1489.5 - 1823.4	2557.3	2521.8 - 2592.8	2521.8	2487.2 - 2556.5
	Male	2960.8	2714.2 - 3207.5	2562.6	2526.1 - 2599.1	2568.5	2532.6 - 2604.5
	Total	2545.1	2377.3 - 2712.9	2563.1	2537.7 - 2588.5	2548.2	2523.3 - 2573.2
New Zealand	Female	2354.3	2328.2 - 2380.5	2318.4	2311.8 - 2324.9	2322.0	2315.7 - 2328.4
	Male	2746.4	2715.3 - 2777.4	2135.1	2128.5 - 2141.7	2166.6	2160.1 - 2173.1
	Total	2523.3	2503.4 - 2543.3	2233.7	2229.0 - 2238.3	2250.5	2245.9 - 2255.0

Table 3.2.1: Leading causes of avoidable hospitalisation, males and females, 0-74 years, 2007-09

	Nelson/Marlborough DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Respiratory infections	412.2	Respiratory infections	510.3
	Dental conditions	393.9	Gastroenteritis	371.2
	Gastroenteritis	316.0	Dental conditions	301.5
	ENT infections	232.9	ENT infections	265.7
	Angina	185.4	Cellulitis	243.5
Male	Dental conditions	454.5	Respiratory infections	570.2
	Respiratory infections	451.6	Gastroenteritis	355.3
	Gastroenteritis	332.7	ENT infections	331.7
	ENT infections	302.1	Dental conditions	319.0
	Obstructed hernia	271.5	Angina	300.1
Total	Respiratory infections	432.2	Respiratory infections	541.0
	Dental conditions	425.0	Gastroenteritis	363.7
	Gastroenteritis	324.6	Dental conditions	310.3
	ENT infections	268.2	ENT infections	299.6
	Angina	225.8	Angina	258.9

Table 3.2.2: Leading causes of avoidable hospitalisation, by ethnicity, 0-74 years, 2007-09

	Nelson/Marlborough DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Dental conditions	619.5	Respiratory infections	742.2
	Respiratory infections	501.7	Dental conditions	441.6
	ENT infections	308.3	Asthma	356.4
	Asthma	285.3	ENT infections	355.9
	Gastroenteritis	267.3	Angina	329.4
non-Māori	Respiratory infections	425.4	Respiratory infections	500.0
	Dental conditions	390.0	Gastroenteritis	379.7
	Gastroenteritis	333.1	ENT infections	283.8
	ENT infections	260.2	Dental conditions	271.8
	Angina	225.6	Angina	250.3

Table 3.2.3: Leading causes of hospitalisation, males and females, 65+ years, 2007-09

	Nelson/Marlborough DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Angina	1611.8	Persons encountering health services for specific procedures and health care	1802.8
	Skin cancers	1147.7	Angina	1499.8
	Disorders of lens	1029.4	Respiratory infections	1132.4
	Other forms of heart disease	959.1	CORD	968.0
	Respiratory infections	895.8	Other forms of heart disease	955.6
Male	Angina	2257.1	Persons encountering health services for specific procedures and health care	2367.0
	Persons encountering health services for specific procedures and health care	1876.9	Angina	1956.7
	Ischaemic heart disease	1845.7	Respiratory infections	1721.7
	Skin cancers	1821.9	Ischaemic heart disease	1550.1
	Other forms of heart disease	1426.7	Other forms of heart disease	1232.4
Total	Angina	1919.2	Persons encountering health services for specific procedures and health care	2059.9
	Skin cancers	1461.8	Angina	1712.2
	Ischaemic heart disease	1314.9	Respiratory infections	1388.0
	Persons encountering health services for specific procedures and health care	1279.2	Ischaemic heart disease	1148.7
	Other forms of heart disease	1181.5	Other forms of heart disease	1084.0

Table 3.2.4: Leading causes of hospitalisation, by ethnicity, 65+ years, 2007-09

	Nelson/Marlborough DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Angina	1853.9	Persons encountering health services for specific procedures and health care	7454.5
	Respiratory infections	1571.9	CORD	2912.0
	Persons encountering health services for specific procedures and health care	1510.4	Respiratory infections	2597.3
	CORD	1472.6	Diabetes	2074.3
	Other diseases of intestines	1437.1	Angina	1943.8
non-Māori	Angina	1927.5	Persons encountering health services for specific procedures and health care	1705.0
	Skin cancers	1492.9	Angina	1698.8
	Ischaemic heart disease	1310.5	Respiratory infections	1319.4
	Persons encountering health services for specific procedures and health care	1267.0	Ischaemic heart disease	1133.2
	Other forms of heart disease	1186.9	Other forms of heart disease	1069.6

Table 3.2.5: Leading causes of hospitalisation, males and females, 5-14 years, 2007-09

	Nelson/Marlborough DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Dental conditions	944.0	Dental conditions	660.6
	Respiratory infections	546.2	Respiratory infections	622.0
	ENT infections	336.1	ENT infections	380.4
	Injuries to the elbow and forearm	214.5	Injuries to the elbow and forearm	337.0
	Persons encountering health services for specific procedures and health care	205.9	Persons encountering health services for specific procedures and health care	311.2
Male	Dental conditions	1092.5	Dental conditions	687.9
	Respiratory infections	500.6	Respiratory infections	671.2
	ENT infections	399.0	Injuries to the elbow and forearm	520.1
	Injuries to the elbow and forearm	389.8	ENT infections	457.9
	Injuries to the head	342.5	Injuries to the head	360.8
Total	Dental conditions	1021.6	Dental conditions	674.6
	Respiratory infections	522.5	Respiratory infections	647.1
	ENT infections	369.0	Injuries to the elbow and forearm	430.9
	Injuries to the elbow and forearm	305.7	ENT infections	420.1
	Injuries to the head	256.6	Persons encountering health services for specific procedures and health care	330.2

Table 3.2.6: Leading causes of hospitalisation, by ethnicity, 5-14 years, 2007-09

	Nelson/Marlborough DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Dental conditions	1297.9	Dental conditions	843.1
	Persons encountering health services for specific procedures and health care	515.8	Respiratory infections	644.5
	ENT infections	476.5	ENT infections	555.6
	Respiratory infections	373.6	Injuries to the elbow and forearm	425.4
	Asthma	313.4	Persons encountering health services for specific procedures and health care	399.2
non-Māori	Dental conditions	970.3	Respiratory infections	648.9
	Respiratory infections	549.3	Dental conditions	619.8
	ENT infections	349.8	Injuries to the elbow and forearm	432.1
	Injuries to the elbow and forearm	331.2	ENT infections	377.3
	Injuries to the head	256.5	Persons encountering health services for specific procedures and health care	308.2



Table 3.2.7: Leading causes of hospitalisation, males and females, 0-4 years, 2007-09

	Nelson/Marlborough DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Respiratory infections	2745.6	Persons encountering health services in other circumstances	4296.1
	Disorders related to length of gestation and fetal growth	1519.7	Respiratory infections	3688.1
	Gastro-oesophageal reflux disease	1494.5	Disorders related to length of gestation and fetal growth	1895.8
	ENT infections	898.4	Gastro-oesophageal reflux disease	1561.8
	Dental conditions	864.8	ENT infections	1005.2
Male	Respiratory infections	3753.1	Respiratory infections	4875.7
	Gastro-oesophageal reflux disease	1818.9	Persons encountering health services in other circumstances	4131.4
	Disorders related to length of gestation and fetal growth	1604.9	Disorders related to length of gestation and fetal growth	2016.8
	ENT infections	1415.6	Gastro-oesophageal reflux disease	1663.2
	Dental conditions	1070.0	ENT infections	1415.5
Total	Respiratory infections	3254.4	Respiratory infections	4295.1
	Gastro-oesophageal reflux disease	1658.4	Persons encountering health services in other circumstances	4212.0
	Disorders related to length of gestation and fetal growth	1562.8	Disorders related to length of gestation and fetal growth	1957.6
	ENT infections	1159.6	Gastro-oesophageal reflux disease	1613.6
	Dental conditions	968.4	ENT infections	1214.9

Table 3.2.8: Leading causes of hospitalisation, by ethnicity, 0-4 years, 2007-09

	Nelson/Marlborough DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Respiratory infections	3862.4	Respiratory infections	5965.2
	Dental conditions	1640.2	Persons encountering health services in other circumstances	2422.4
	Gastro-oesophageal reflux disease	1534.4	Disorders related to length of gestation and fetal growth	1684.5
	Disorders related to length of gestation and fetal growth	1349.2	Gastro-oesophageal reflux disease	1311.2
	ENT infections	1349.2	ENT infections	1270.5
non-Māori	Respiratory infections	3141.0	Persons encountering health services in other circumstances	4825.9
	Gastro-oesophageal reflux disease	1681.5	Respiratory infections	3722.1
	Disorders related to length of gestation and fetal growth	1602.6	Disorders related to length of gestation and fetal growth	2051.4
	ENT infections	1124.3	Gastro-oesophageal reflux disease	1717.4
	Respiratory and cardiovascular disorders specific to the perinatal period	867.9	ENT infections	1195.9

# Appendix 4

## Cancer Registration Tables (2005-2007)

**NOTE A:** Counts less than 5 have ASR's presented as "0.0" or "#N/A"

**NOTE B:** There are two comparisons being made in the following tables

1. Māori Age-Standardised Rate against non-Māori Age-Standardised Rate  
within the District Health Board:

**Māori ASR statistically significantly higher than non-Māori ASR within DHB**

Māori ASR statistically significantly lower than non-Māori ASR within DHB

2. District Health Board Age-Standardised Rate  
against New Zealand Age-Standardised Rate:

**DHB ASR statistically significantly higher than national ASR**

DHB ASR statistically significantly lower than national ASR

Key:

*DHB = District Health Board*

*ASR = Age-Standardised Rate*

Table 4.1.1: Lung cancer registrations, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	95.5	-48.1 - 239.0	23.3	7.5 - 39.2	25.7	9.8 - 41.6
	Male	79.7	-62.9 - 222.4	29.0	13.6 - 44.5	30.5	15.1 - 46.0
	Total	90.4	-15.7 - 196.6	25.9	14.9 - 37.0	27.8	16.7 - 38.9
New Zealand	Female	91.7	72.1 - 111.2	22.7	19.8 - 25.5	28.1	25.1 - 31.2
	Male	91.7	71.0 - 112.5	32.1	28.8 - 35.4	36.5	33.1 - 40.0
	Total	91.6	77.4 - 105.9	27.0	24.8 - 29.2	31.9	29.6 - 34.2

Table 4.1.2: Female breast cancer registrations, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	65.1	-59.5 - 189.7	128.5	84.6 - 172.3	125.1	83.5 - 166.8
New Zealand	Female	167.8	140.8 - 194.7	126.7	118.6 - 134.7	130.4	122.7 - 138.1

Table 4.1.3: Prostate cancer registrations, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Male	105.3	-59.6 - 270.1	131.0	97.0 - 165.1	130.0	96.8 - 163.3
New Zealand	Male	89.8	69.1 - 110.5	106.5	100.4 - 112.5	104.9	99.1 - 110.7

Table 4.1.4: Cervical cancer registrations, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	16.4	-4.7 - 37.6	18.8	-3.1 - 40.7
New Zealand	Female	17.1	8.2 - 26.0	9.5	6.9 - 12.1	10.3	7.8 - 12.7

Table 4.1.5: Colorectal cancer registrations, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	69.1	-56.1 - 194.2	46.7	25.8 - 67.5	47.2	26.8 - 67.5
	Male	0.0	0.0 - 0.0	58.2	35.4 - 81.1	57.5	35.3 - 79.7
	Total	52.0	-25.9 - 129.8	52.2	36.8 - 67.7	52.1	37.1 - 67.2
New Zealand	Female	35.4	23.2 - 47.5	45.9	41.7 - 50.0	45.2	41.2 - 49.1
	Male	44.3	29.9 - 58.8	56.2	51.6 - 60.9	55.4	51.0 - 59.8
	Total	39.7	30.3 - 49.1	50.8	47.7 - 53.9	50.0	47.1 - 53.0

Table 4.1.6: Melanoma registrations, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	74.5	38.5 - 110.5	72.0	37.8 - 106.1
	Male	0.0	0.0 - 0.0	64.4	32.5 - 96.4	61.4	31.7 - 91.0
	Total	0.0	0.0 - 0.0	69.5	45.4 - 93.6	66.7	44.0 - 89.4
New Zealand	Female	10.0	3.4 - 16.6	55.1	49.5 - 60.7	50.2	45.2 - 55.1
	Male	8.5	1.9 - 15.2	61.4	55.7 - 67.0	56.5	51.4 - 61.5
	Total	9.3	4.6 - 13.9	58.0	54.0 - 61.9	53.1	49.5 - 56.6

Table 4.1.7: Lung cancer registrations, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	895.9	774.9 - 1017.0	157.7	149.0 - 166.4	180.2	170.9 - 189.5
	Male	0.0	0.0 - 0.0	217.0	207.2 - 226.9	227.6	217.6 - 237.6
	Total	810.2	720.7 - 899.6	182.5	176.1 - 189.0	199.1	192.4 - 205.8
New Zealand	Female	507.3	495.1 - 519.4	145.2	143.6 - 146.9	166.5	164.8 - 168.2
	Male	605.3	590.8 - 619.8	255.1	252.9 - 257.3	276.2	274.0 - 278.4
	Total	553.2	543.9 - 562.6	194.6	193.3 - 196.0	215.9	214.5 - 217.2

Table 4.1.8: Female breast cancer registrations, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	362.6	348.9 - 376.3	351.6	338.4 - 364.8
New Zealand	Female	435.6	424.3 - 446.9	310.9	308.5 - 313.4	318.5	316.1 - 320.9

Table 4.1.9: Prostate cancer registrations, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Male	0.0	0.0 - 0.0	857.4	836.2 - 878.6	852.2	831.4 - 873.0
New Zealand	Male	756.4	740.0 - 772.8	762.6	758.7 - 766.6	760.3	756.5 - 764.2

Table 4.1.10: Cervical cancer registrations, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	0.0	0.0 - 0.0	0.0	0.0 - 0.0
New Zealand	Female	23.7	21.1 - 26.3	11.3	10.8 - 11.7	12.0	11.5 - 12.5

Table 4.1.11: Colorectal cancer registrations, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	<b>785.4</b>	670.1 - 900.8	330.4	317.8 - 343.1	<b>346.1</b>	333.3 - 358.8
	Male	0.0	0.0 - 0.0	451.6	436.6 - 466.6	<b>450.1</b>	435.3 - 464.9
	Total	<b>553.9</b>	484.4 - 623.5	387.6	377.9 - 397.4	<b>394.9</b>	385.2 - 404.6
New Zealand	Female	210.0	202.3 - 217.7	309.7	307.4 - 312.0	304.0	301.8 - 306.3
	Male	344.7	333.8 - 355.5	404.6	401.8 - 407.4	402.6	399.9 - 405.4
	Total	274.5	267.9 - 281.1	353.8	352.0 - 355.6	349.9	348.2 - 351.7

Table 4.1.12: Melanoma registrations, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Nelson/Marlborough	Female	0.0	0.0 - 0.0	172.1	163.1 - 181.1	<b>167.3</b>	158.6 - 176.0
	Male	0.0	0.0 - 0.0	226.9	216.3 - 237.5	<b>221.1</b>	210.9 - 231.4
	Total	0.0	0.0 - 0.0	198.3	191.4 - 205.1	<b>192.9</b>	186.2 - 199.6
New Zealand	Female	35.6	32.5 - 38.8	144.7	143.1 - 146.3	138.2	136.7 - 139.7
	Male	48.2	44.0 - 52.5	247.5	245.3 - 249.7	236.7	234.7 - 238.8
	Total	41.0	38.4 - 43.5	191.8	190.4 - 193.1	183.2	181.9 - 184.5

# Appendix 5

## ICD-10 Codes

Description	ICD-10-AM codes used
<b>I: Certain infectious and parasitic diseases</b>	<b>A00–B99</b>
Intestinal infectious diseases	A00–A09
Tuberculosis (including late effects)	A15–A19, B90
Meningococcal infection	A39
Infections, sexual transmission	A50–A64
Viral hepatitis	B15–B19
HIV	B20–B24
Viral infection, unspecified, of unspecified site	B34.9
<b>II: Neoplasms (cancer)</b>	<b>C00–D48</b>
Malignant neoplasms	C00–C97
Lip, oral cavity and pharynx	C00–C14
Digestive organs	C15–C26
☛ Oesophagus	C15
☛ Cancer of stomach	C16
☛ Colorectal	C18–C21
☛ Cancer of colon	C18
☛ Rectum, rectosigmoid junction and anus	C19–C21
☛ Liver and intrahepatic bile ducts	C22
☛ Gallbladder, other and unspecified parts	C23–C24
☛ of biliary tract	
☛ Pancreas	C25
☛ Other digestive organs	C17, C26
Respiratory and intrathoracic organs	C30–C39
☛ Larynx	C32
☛ Trachea, bronchus and lung	C33–C34
☛ Other respiratory and intrathoracic organs	C30–C31, C37–C39
Bone and articular cartilage	C40–C41
Skin	C43–C44
☛ Melanoma of skin	C43
☛ Other malignant neoplasms of skin	C44
☛ Mesothelial and soft tissue	C45–C49
Breast: female	C50 & female
Breast: male	C50 & male
Female genital organs	C51–C58
☛ Cervix uteri	C53
☛ Uterus	C54–C55
☛ Ovary	C56
☛ Other female genital organs	C51–C52, C57–C58
Male genital organs	C60–C63
☛ Prostate	C61
☛ Testis	C62
☛ Other male genital organs	C60, C63
Urinary tract	C64–C68
☛ Kidney, except renal pelvis	C64
☛ Bladder	C67
☛ Other urinary tract	C65–C66, C68
Eye and other central nervous system	C69–C72
☛ Brain	C71



Description	ICD-10-AM codes used
<ul style="list-style-type: none"> <li>☛ Other central nervous system</li> </ul>	C69–C70, C72
Thyroid and other endocrine glands	C73–C75
<ul style="list-style-type: none"> <li>☛ Thyroid gland</li> </ul>	C73
<ul style="list-style-type: none"> <li>☛ Other endocrine glands</li> </ul>	C74–C75
Malignant neoplasm of ill-defined, secondary and unspecified sites	C76–C80
Lymphoma	C81–C85
<ul style="list-style-type: none"> <li>☛ Hodgkin's disease</li> </ul>	C81
<ul style="list-style-type: none"> <li>☛ Non-Hodgkin's lymphoma</li> </ul>	C82–C85
Multiple myeloma and other malignant immunoproliferative diseases and malignant plasma cell neoplasms	C88, C90
Leukaemias	C91–C95
<ul style="list-style-type: none"> <li>☛ Lymphoid leukaemia</li> </ul>	C91
<ul style="list-style-type: none"> <li>☛ Myeloid leukaemia</li> </ul>	C92
<ul style="list-style-type: none"> <li>☛ Acute myeloid leukaemia</li> </ul>	C92.0, C92.4, C92.5
<ul style="list-style-type: none"> <li>☛ Other myeloid leukaemia</li> </ul>	C92.1–C92.3, C92.8–C92.9
<ul style="list-style-type: none"> <li>☛ Other leukaemias</li> </ul>	C93–C95
Other and unspecified malignant neoplasms of lymphoid, hematopoietic, and related tissue	C96
Malignant neoplasm of independent (primary) multiple sites	C97
In situ neoplasms	D00–D09
<ul style="list-style-type: none"> <li>☛ Melanoma in situ</li> </ul>	D03
<ul style="list-style-type: none"> <li>☛ Carcinoma in situ of breast</li> </ul>	D05
<ul style="list-style-type: none"> <li>☛ Carcinoma in situ of cervix uteri</li> </ul>	D06
<ul style="list-style-type: none"> <li>☛ Other in situ neoplasms</li> </ul>	D00–D02, D04, D07–D09
Benign neoplasms	D10–D36
Neoplasms of uncertain or unknown behaviour	D37–D48
<b>III: Diseases of the blood and blood-forming organs and</b>	<b>D50–D89</b>
<b>IV: Endocrine, nutritional and metabolic diseases</b>	<b>E00–E90</b>
Disorders of thyroid gland	E00–E07
Diabetes mellitus	E10–E14
<ul style="list-style-type: none"> <li>☛ IDDM (type 1)</li> </ul>	E10
<ul style="list-style-type: none"> <li>☛ NIDDM (type 2)</li> </ul>	E11–E14
Obesity	E66
<b>V: Mental and behavioural disorders</b>	<b>F00–F99</b>
Organic, including symptomatic, mental disorder	F00–F09
<ul style="list-style-type: none"> <li>☛ Dementia, vascular and unspecified</li> </ul>	F01, F03
<ul style="list-style-type: none"> <li>☛ Personality and behavioural disorders due to brain disease, damage, and dysfunction</li> </ul>	F07
<ul style="list-style-type: none"> <li>☛ Mental and behavioural disorders due to psychoactive substance use</li> </ul>	F10–F19
<ul style="list-style-type: none"> <li>☛ Alcohol</li> </ul>	F10
<ul style="list-style-type: none"> <li>☛ Opioids</li> </ul>	F11
<ul style="list-style-type: none"> <li>☛ Cannabinoids</li> </ul>	F12

Description	ICD-10-AM codes used
Schizophrenia, schizotypal and delusional disorders	F20–F29
☛ Schizophrenia	F20
☛ Schizoaffective disorders	F25
Mood (affective) disorders	F30–F39
☛ Manic episode and bipolar affective disorder	F30–F31
☛ Manic episode	F30
☛ Bipolar affective disorder	F31
☛ Depressive episode and recurrent, and persistent mood [affective] disorders	F32–F34
☛ Depressive episode	F32
☛ Recurrent depressive disorder	F33
☛ Persistent mood [affective] disorders	F34
Neurotic, stress-related and somatoform disorders	F40–F48
Eating disorders	F50
Disorders of adult personality and behaviour	F60–F69
Mental retardation	F70–F79
<b>VI: Diseases of the nervous system</b>	<b>G00–G99</b>
Bacterial meningitis, not elsewhere classified	G00
Parkinson's disease, secondary Parkinsonism	G20–G21
Alzheimer's disease	G30
Epilepsy, status epilepticus	G40–G41
Migraine	G43
Transient cerebral ischemic attacks and related syndromes	G45
Mononeuropathies of upper limb	G56
Infantile cerebral palsy	G80
<b>VII: Diseases of the eye and adnexa</b>	<b>H00–H59</b>
Disorders of lens	H25–H28
Glaucoma	H40–H42
<b>VIII: Diseases of the ear and mastoid process</b>	<b>H60–H95</b>
Diseases of middle ear and mastoid	H65–H75
☛ Non-suppurative otitis media	H65
☛ Suppurative and unspecified otitis media	H66
☛ Perforation of tympanic membrane	H72
Hearing loss	H90–H91

Description	ICD-10-AM codes used
<b>IX: Diseases of the circulatory system</b>	<b>I00–I99</b>
Acute rheumatic fever	I00–I02
☛ Acute rheumatic heart disease	I01, I02.0
Chronic rheumatic heart disease	I05–I09
Hypertensive diseases	I10–I15
Ischemic heart disease	I20–I25
☛ Angina pectoris	I20
☛ Acute myocardial infarction	I21
☛ Chronic ischemic heart disease	I25
Pulmonary circulation	I26–I28
Other forms of heart disease	I30–I52
☛ Atrial fibrillation and flutter	I48
☛ Heart failure	I50
Cerebrovascular diseases	I60–I69
☛ Subarachnoid haemorrhage	I60
☛ Intracerebral haemorrhage, other nontraumatic intracranial haemorrhage	I61–I62
☛ Cerebral infarction, stroke, not specified as haemorrhage or infarction	I63–I64
Other diseases of the circulatory system	I70–I99
☛ Atherosclerosis	I70
☛ Varicose veins of lower extremities	I83
<b>X: Diseases of the respiratory system</b>	<b>J00–J99</b>
Acute upper respiratory infections	J00–J06
Pneumonia	J12–J18
Acute bronchitis and bronchiolitis	J20–J22
Chronic diseases of tonsils and adenoids	J35
Chronic obstructive respiratory disease	J40–J44
Asthma	J45–J46
Bronchiectasis	J47
<b>XI: Diseases of the digestive system</b>	<b>K00–K93</b>
Teeth and gums	K00–K08
☛ Disorders of tooth development and eruption, embedded and impacted teeth	K00–K01
☛ Dental caries	K02
☛ Diseases of pulp and periapical tissues	K04
☛ Periodontal diseases	K05–K06
Diseases of oesophagus, stomach and duodenum	K20–K31
☛ Diseases of oesophagus	K20–K22
☛ Gastric, duodenal, peptic gastrojejunal ulcers, gastritis duodenitis	K25–K29
Diseases of appendix	K35–K38
Hernia	K40–K46
☛ Inguinal hernia	K40
Non-infective gastroenteritis and colitis	K50–K52
Other diseases of intestines and diseases of peritoneum	K55–K67
Diseases of liver	K70–K77
☛ Alcoholic liver disease	K70

Description	ICD-10-AM codes used
Diseases of gallbladder, biliary tract and pancreas	K80–K87
Cholelithiasis	K80
Acute pancreatitis	K85
Other diseases of pancreas	K86
Haematemesis, melaena and gastrointestinal haemorrhage, unspecified	K92.0–K92.2
<b>XII: Diseases of the skin and subcutaneous tissue</b>	<b>L00–L99</b>
Infections of skin and subcutaneous tissue	L00–L08
<b>XIII: Diseases of the musculoskeletal system and connective tissue</b>	<b>M00–M99</b>
Gout	M10
Arthrosis (osteoarthritis)	M15–M19
Other dorsopathies	M50–M54
<b>XIV: Diseases of the genitourinary system</b>	<b>N00–N99</b>
Glomerular diseases	N00–N08
Tubulo-interstitial nephritis	N10–N12
Renal failure	N17–N19
Urolithiasis	N20–N23
Urinary tract infection, site not specified	N39.0
Stress incontinence and other specified urinary incontinence	N39.3, N39.4
☐ Stress incontinence	N39.3
Disorders of male genital organs	N40–N51
☐ Hyperplasia of prostate	N40
Inflammatory disorders of breast	N61
Inflammatory diseases of female pelvic organs	N70–N77
Non-inflammatory disorders of female genital tract	N80–N98
☐ Endometriosis	N80
☐ Female genital prolapse	N81
☐ Dysplasia of cervix uteri	N87
☐ Excessive and frequent menstruation	N92.0, N92.1
☐ Menopausal and other perimenopausal disorders	N95
<b>XV: Pregnancy, childbirth and the puerperium</b>	<b>O00–O99</b>
Abscess of breast associated with childbirth	O91.1
<b>XVI: Certain conditions originating in the perinatal period</b>	<b>P00–P96</b>
Slow fetal growth and fetal malnutrition and premature	P05–P07
☐ Slow fetal growth and fetal malnutrition	P05
☐ Premature	P07.2–P07.3
Birth trauma	P10–P15
Respiratory and cardiovascular disorders specific to the perinatal period	P20–P29

Description	ICD-10-AM codes used
☛ Birth asphyxia	P21
☛ Respiratory distress of newborn	P22
Infection specific to the perinatal period	P35–P39
<b>XVII: Congenital malformations, deformations, and chromosomal abnormalities</b>	<b>Q00–Q99</b>
<b>XVIII: Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified</b>	<b>R00–R99</b>
Symptoms and signs involving the circulatory and respiratory systems	R00–R09
Symptoms and signs involving the digestive system and abdomen	R10–R19
Symptoms and signs involving the urinary system	R30–R39
General symptoms and signs	R50–R69
Ill-defined and unknown causes of mortality	R95–R99
☛ Sudden infant death syndrome	R95
<b>XIX: Injury, poisoning and certain other consequences of external causes</b>	<b>S00–T98</b>
Injuries to the head	S00–S09
Other injuries	S10–T14
Burns	T20–T31
Poisoning by drugs, medicaments and biological substances	T36–T50
Complications of surgical and medical care, not elsewhere classified	T80–T88
<b>XX: External causes of morbidity and mortality</b>	<b>V01–Y98</b>
Accidents	V01–V99, W00–X59, Y85,
Transport accidents	V01–V99, Y85
☛ Pedestrian	V01–V09
☛ Pedal cyclist	V10–V19
☛ Other land transport (occupant of motorcycle, three-wheeled motor vehicle, car, pickup truck or van)	V20–V59, Y85.0
☛ Other transport	V90–V99, Y85.1
Other external causes of accidental injury	W00–X59, Y86
☛ Falls	W00–W19
☛ Exposure to mechanical forces	W20–W64
☛ Exposure to inanimate mechanical forces	W20–W49
☛ Exposure to animate mechanical forces	W50–W64
☛ Drowning and submersion (non transport)	W65–W74
☛ Fires	X00–X09
☛ Accidental poisoning by and exposure to noxious substances	X40–X49
☛ Accidental threats to breathing	W75–84
☛ Accidental suffocation or strangulation in bed	W75
Intentional self-harm (suicide)	X60–X84, Y87.0
Assault (homicide)	X85–Y09, Y87.1
Event of undetermined intent	Y10–Y34, Y87.2
Legal intervention	Y35, Y89.0

Description	ICD-10-AM codes used
Complications of medical and surgical care	Y40–Y84, Y88
☛ Drugs, medicaments and biological substances causing adverse effects in therapeutic use	Y40–Y59, Y88.0
☛ Misadventure to patients during surgical and medical care	Y60–Y69, Y88.1
☛ Medical devices associated with adverse incidents, abnormal reaction, without mention of misadventure at the time of the procedure	Y70–Y84, Y88.2, Y88.3
<b>XXI: Factors influencing health status and contact with health services</b>	<b>Z00–Z99</b>
Persons encountering health services for examination and investigation	Z00–Z13
Persons with potential health hazards related to communicable diseases	Z20–Z29
Persons encountering health services in circumstances related to reproduction	Z30–Z39
☛ Outcome of delivery	Z37
☛ Liveborn infants	Z38
Persons encountering health services for specific procedures and health care	Z40–Z54
☛ Care involving dialysis	Z49
☛ Care involving rehabilitation	Z50
Persons with potential health hazards related to socioeconomic and psychosocial circumstances	Z55–Z65
Persons encountering health services in other circumstances	Z70–Z76
Persons with potential health hazards related to family and personal history and certain conditions influencing health status	Z80–Z99