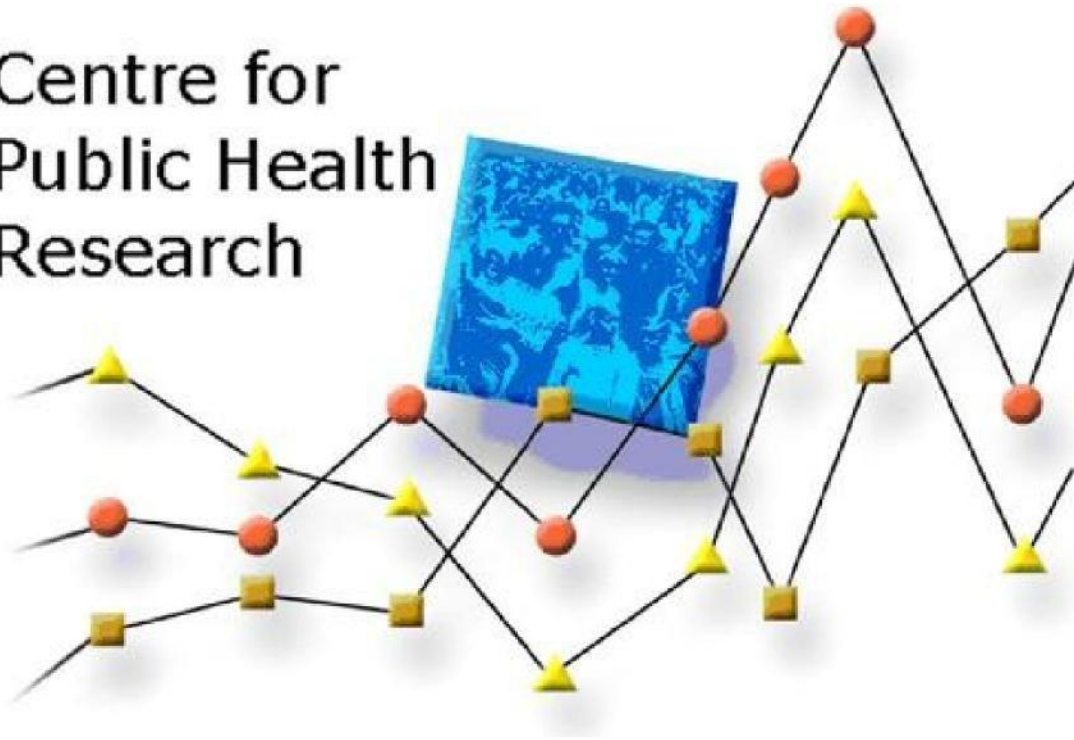


Centre for  
Public Health  
Research



## **Health Needs Assessment**

### **South Canterbury District Health Board**

**For the Ministry of Health**

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# **Health Needs Assessment**

## **South Canterbury District Health Board**

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## **EXECUTIVE SUMMARY**

The report identifies the unmet health and healthcare needs of the South Canterbury 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 South Canterbury 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, South Canterbury DHB had a population of 55,110, this is predicted to increase to 55,850 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 South Canterbury DHB is much smaller than that of New Zealand as a whole. The Māori population is younger than the non-Māori and is dominated by young people. Whilst the non-Māori population is expected to decline significantly in both the 0-14 and 15-65 age categories, the Māori population is expected to increase across all age categories.

In South Canterbury DHB, with the exception of deciles 1 and 2, the proportion of communities in each NZDep06 deprivation decile decreases as levels of deprivation increase. Whilst non-Māori have greatest representation in decile 4, for Māori representation is highest in decile 8, suggesting higher levels of deprivation for Māori than for non-Māori.

### **Health status**

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

There was no statistically significant difference in the rates of avoidable mortality and hospitalisation for both Māori and non-Māori in the South Canterbury DHB.

Motor vehicle accidents, suicide, colorectal cancer, and breast cancer were four of the top five leading causes of avoidable mortality for non-Māori. Ischaemic heart disease was the only leading cause for Māori.

Epilepsy was a leading cause of avoidable hospitalisation for Māori while angina was a leading cause for non-Māori.

The rate of COPD hospitalisation for the South Canterbury DHB was statistically significantly higher than the national rate.

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

A leading cause of hospitalisation for Māori children 0-4 years was dental conditions while other congenital malformations of the digestive system was a leading cause for non-Māori children.

Dental conditions, respiratory infections, and ENT infections were leading causes for both Māori and non-Māori children 5-14 years.

The unintentional injury hospitalisation rate for Māori youth 15-24 years in the South Canterbury DHB is statistically significantly lower than their non-Māori counterparts.

Children under 15 years old in the South Canterbury DHB had a statistically significantly lower hospitalisation rate for asthma than children in New Zealand

### **Older people**

The leading causes of mortality for older non-Māori people were ischaemic heart disease, colorectal cancer, lung cancer, stroke, and COPD. Congestive heart failure, diabetes, respiratory infections, and symptoms and signs involving the digestive systems and abdomen were leading causes of hospitalisation for Māori aged 65 years and over while angina, ischaemic heart disease, and disorders of lens were leading causes for older non-Māori people.

### **Health service utilisation**

The DHB immunisation coverage rates for Māori and non-Māori at 2 years were considerably higher than the comparable national averages.

The influenza vaccine coverage for Maori and non-Maori in the DHB aged 65+ years was similar to the national average.

The breast cancer screening coverage for Māori women (64.9%) was higher than the national (51.5%), but lower than the non-Māori (78.1%) coverage rates.

In the DHB, 50.6 percent of Maori women aged 20 to 69 years had a cervical smear in the past three years, compared to 77.5 percent of non-Māori women.



## 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 South Canterbury 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

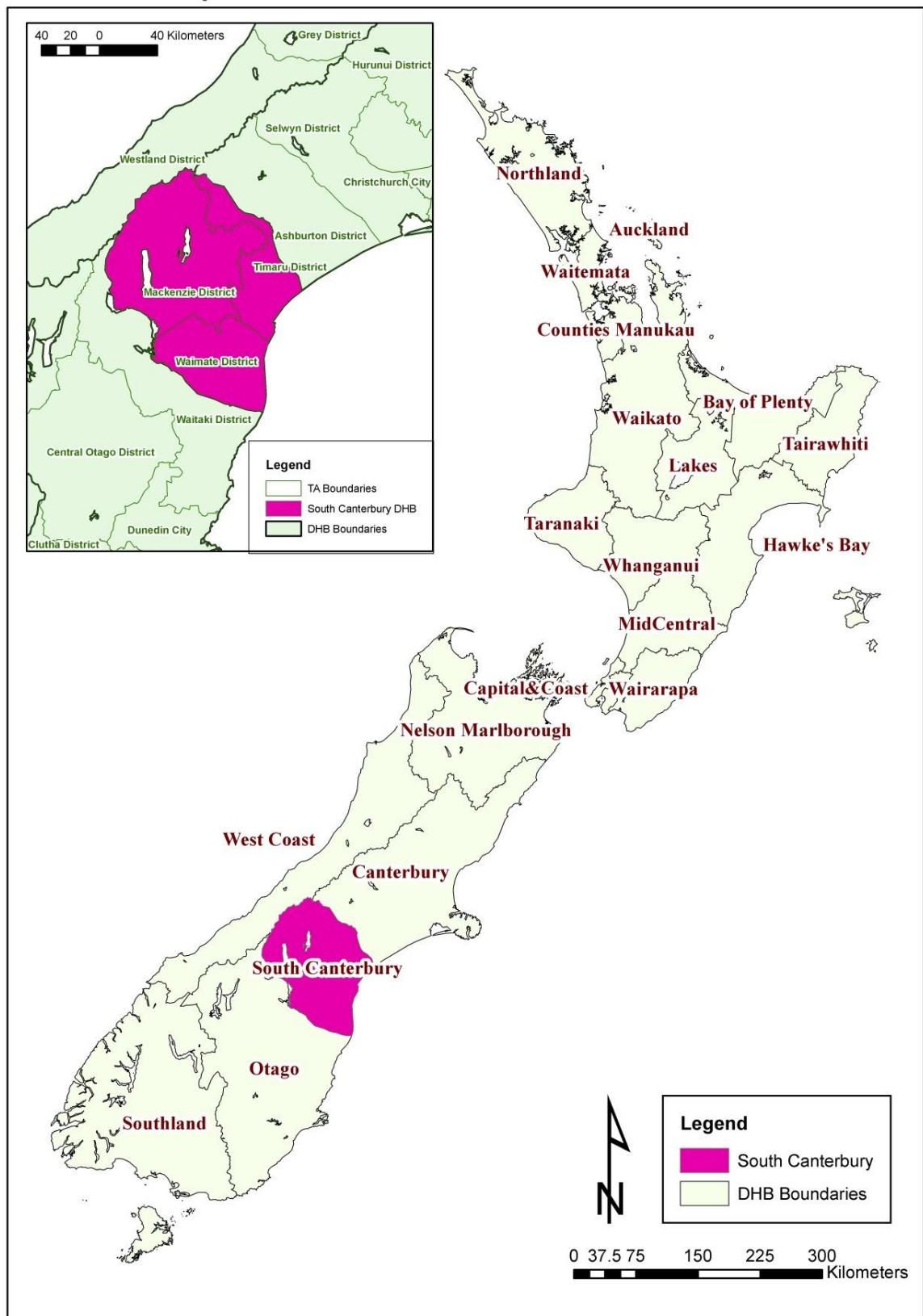
The dark blue shows that the ASR for the total Māori population in the DHB (919.1 per 100,000) is statistically significantly higher than the ASR for the total non-Māori population in the DHB (622.3 per 100,000)

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

South Canterbury DHB had a population of 55,110 at the last (2006) census, making up approximately 1.3 percent of the total New Zealand population (4,184,580 at the last census). This population is projected to rise to 55,850 by 2026, an increase of 1.3 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 South Canterbury DHB is much smaller than that of New Zealand as a whole, (6.2% compared to 14.6%). This represents 0.5 percent of the New Zealand Māori population (2006 Census).

## 1.2 Population Distribution by Age and Gender

The majority of the South Canterbury DHB population (62.7%) are of working age (15-64 years), this makes up a lower proportion of the population than in New Zealand as a whole (66.5%), (Table 1.1). There are proportionately fewer young people (aged 0-14 years) and more elderly (aged 65+ years) in the South Canterbury DHB when compared to the New Zealand population.

It is projected that by 2026, the proportion of the population in the 65+ age group will have increased by 61.8 percent in South Canterbury DHB compared to 84.5 percent nationally. The populations of young people and those of working age are predicted to decline by 10.3 percent and 12.5 percent respectively. Trends for the rest of New Zealand are for modest increases in these two age groups (by 4.6% and 12.0% respectively).

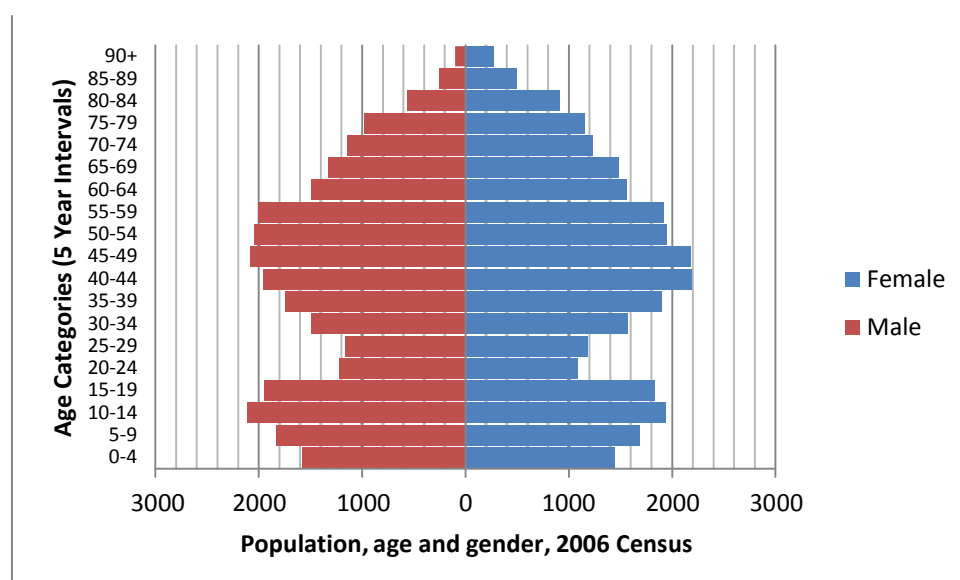
**Table 1.1:** Percentage population, age and gender, 2006 Census, 2026

Location	Age Group	2006(Base Population)			2026 (Projected Population)		
		Male	Female	Total	Male	Female	Total
South Canterbury	0-14	20.4	18.1	19.2	17.8	16.3	17.0
	15-64	63.4	62.0	62.7	54.5	53.7	54.1
	65+	16.2	19.9	18.1	27.7	30.0	28.9
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

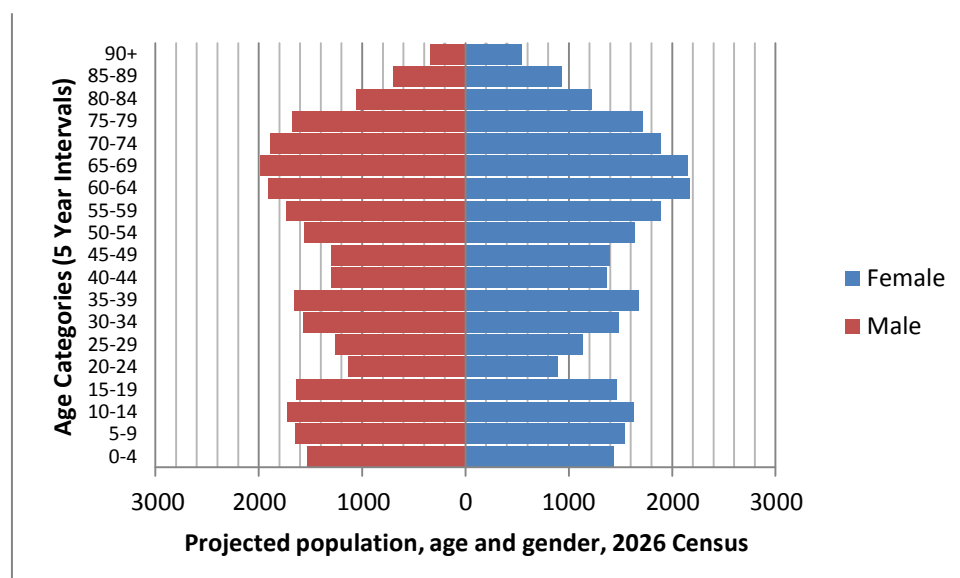
**Table 1.2:** Population change, age and gender, 2006 Census, 2026

Location	Age Group	2006(Base)			2026			Percentage increase 2006-2026		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
South Canterbury	0-14	5520	5080	10600	4910	4600	9510	-11.1	-9.4	-10.3
	15-64	17170	17370	34550	15080	15130	30220	-12.2	-12.9	-12.5
	65+	4390	5560	9960	7660	8460	16120	74.5	52.2	61.8
	Total	27080	28010	55110	27650	28190	55850	2.1	0.6	1.3
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

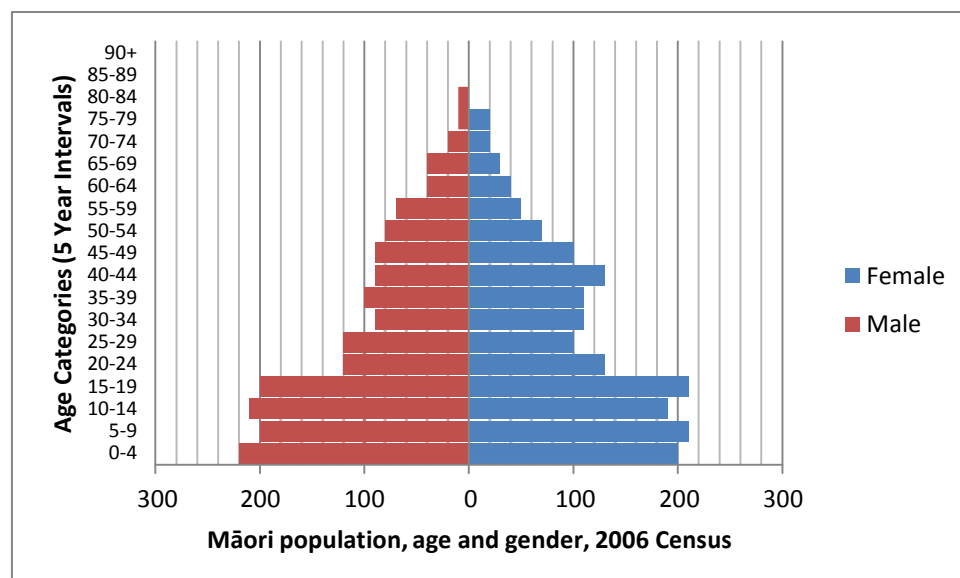




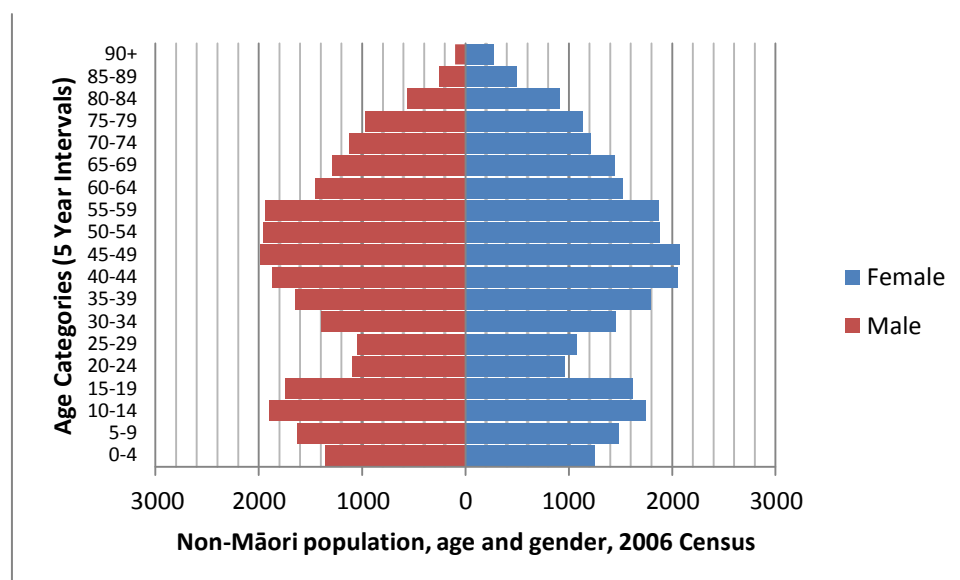
### 1.3 Population Distribution by Ethnicity

The South Canterbury Māori population is younger than both the non-Māori and total South Canterbury populations. The Māori population is dominated by young people (peak population 0-4 years). By comparison the non-Māori population distribution is dominated by those of working age, with a peak population at 40-49 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. By comparison the non-Māori population is expected to decline markedly in both the 0-14 and 15-65 age categories.

Despite the largest population rise occurring in the 65+ age group (226.7%), the predicted Māori population in 2026 is still dominated by young people, with the peak population remaining at 0-4 years. Over the same period the non-Māori population ages, with the peak population increasing to 65-69 years.

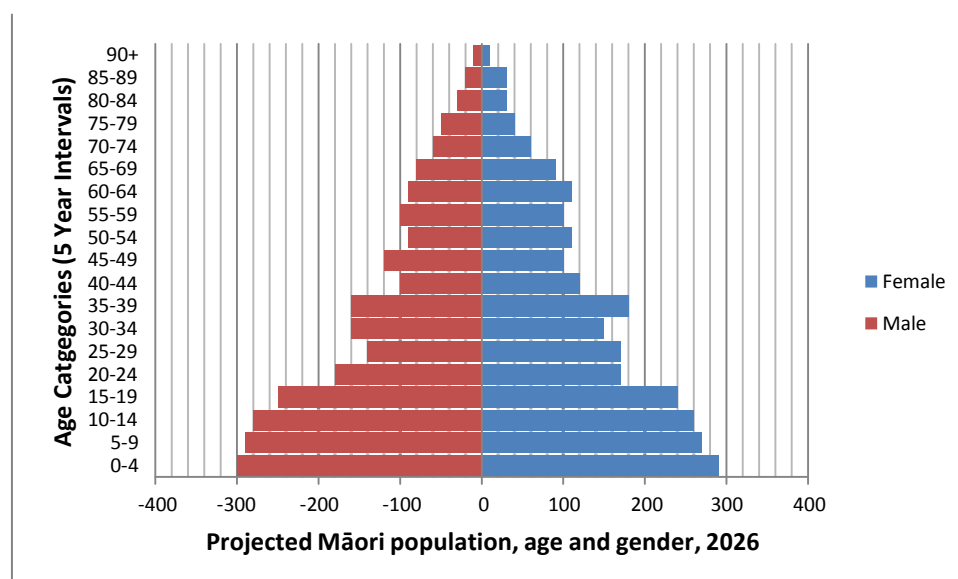
**Table 1.3:** Māori population change, age and gender, 2006 Census, 2026

Location	Age Group	2006(Base)			2026			Percentage increase 2006-2026		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
South Canterbury	0-14	630	600	1230	870	820	1700	38.1	36.7	38.2
	15-64	1000	1050	2050	1390	1450	2840	39.0	38.1	38.5
	65+	80	70	150	250	260	490	212.5	271.4	226.7
	Total	1710	1720	3430	2510	2530	5030	46.8	47.1	46.6
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

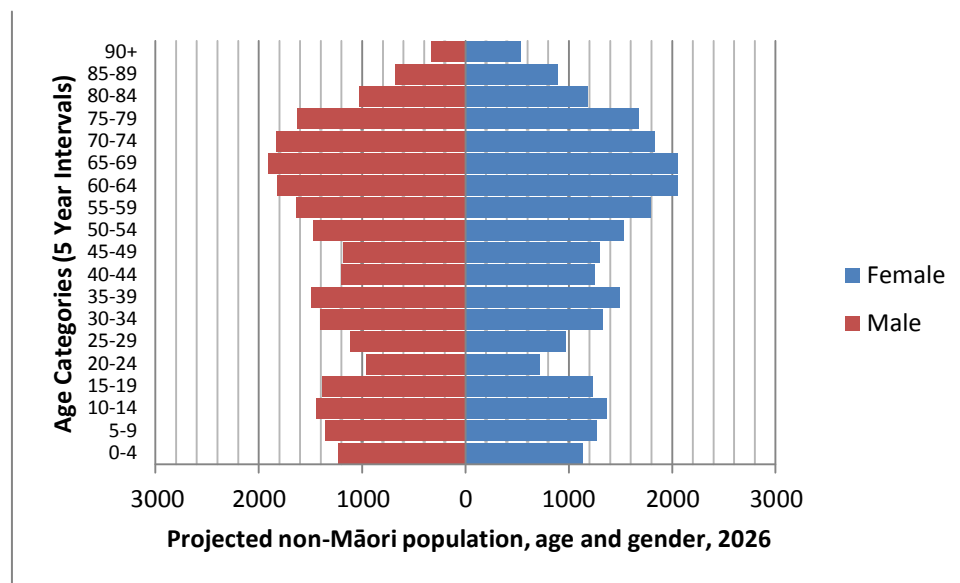
**Table 1.4:** Non-Māori population change, age and gender, 2006 Census, 2026

Location	Age Group	2006(Base)			2026			Percentage increase 2006-2026		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
South Canterbury	0-14	4890	4480	9370	4040	3780	7810	-17.4	-15.6	-16.6
	15-64	16170	16320	32500	13690	13680	27380	-15.3	-16.2	-15.8
	65+	4310	5490	9810	7410	8200	15630	71.9	49.4	59.3
	Total	25370	26290	51680	25140	25660	50820	-0.9	-2.4	-1.7
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

**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).*

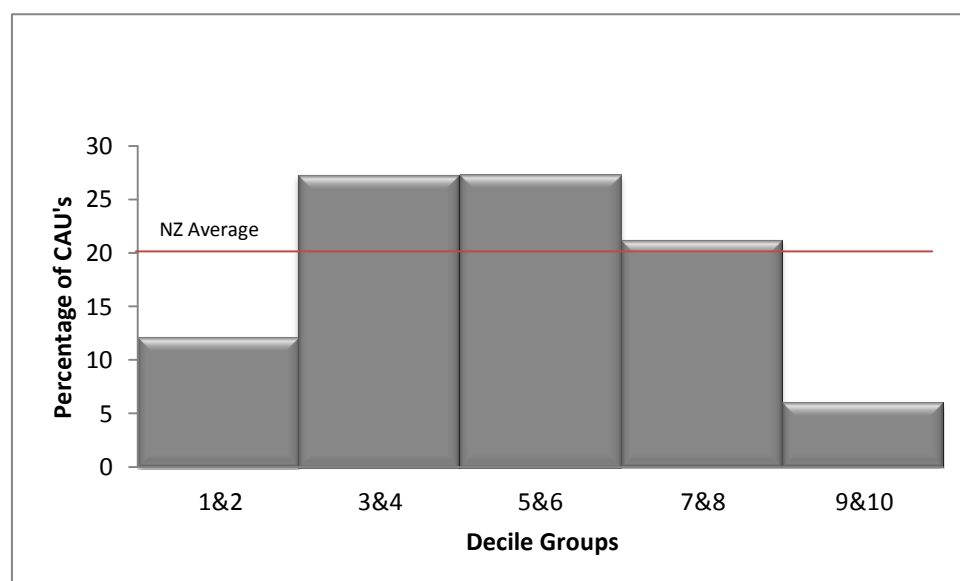
The following section examines social and economic determinants of health through the New Zealand Index of Deprivation and through some of the individual indicators used to determine ‘deprivation’ in New Zealand.

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

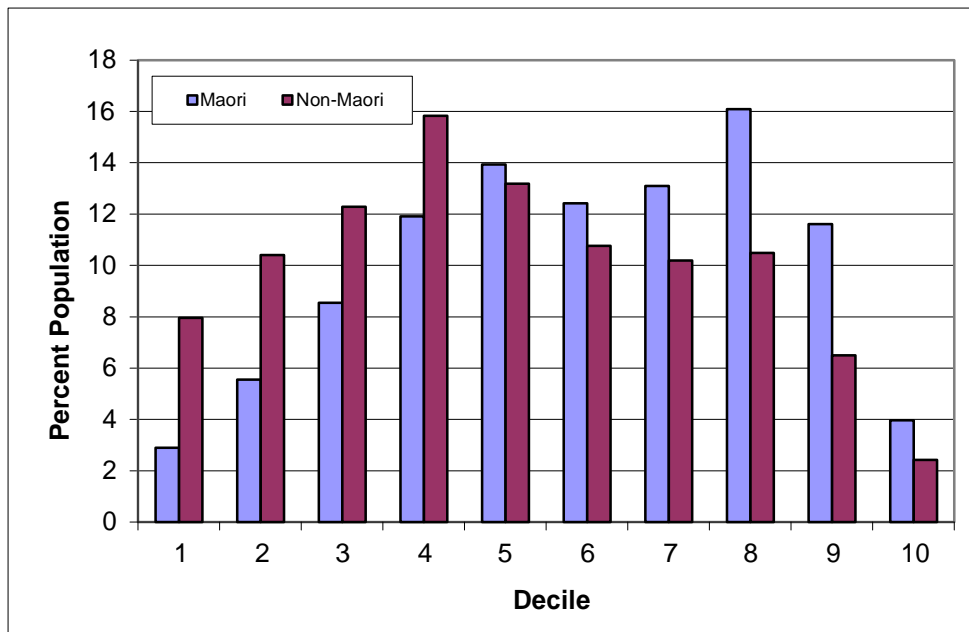
The New Zealand Index of Deprivation (NZDep06) provides a numerical rating of socio economic status by small area unit. This is based on nine indicators taken from the 2006 Census and across eight dimensions of deprivation. The numerical scale is divided into population deciles with 1 representing the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

In South Canterbury DHB, with the exception of deciles 1 and 2, the proportion of communities in each NZDep06 deprivation decile decreases with levels of deprivation. The proportion of non-Māori in each decile increases, from deciles 1 to 4, and thereafter decreases. No trend in distribution can be seen for Māori. However representation is higher towards the more deprived end of the scale.

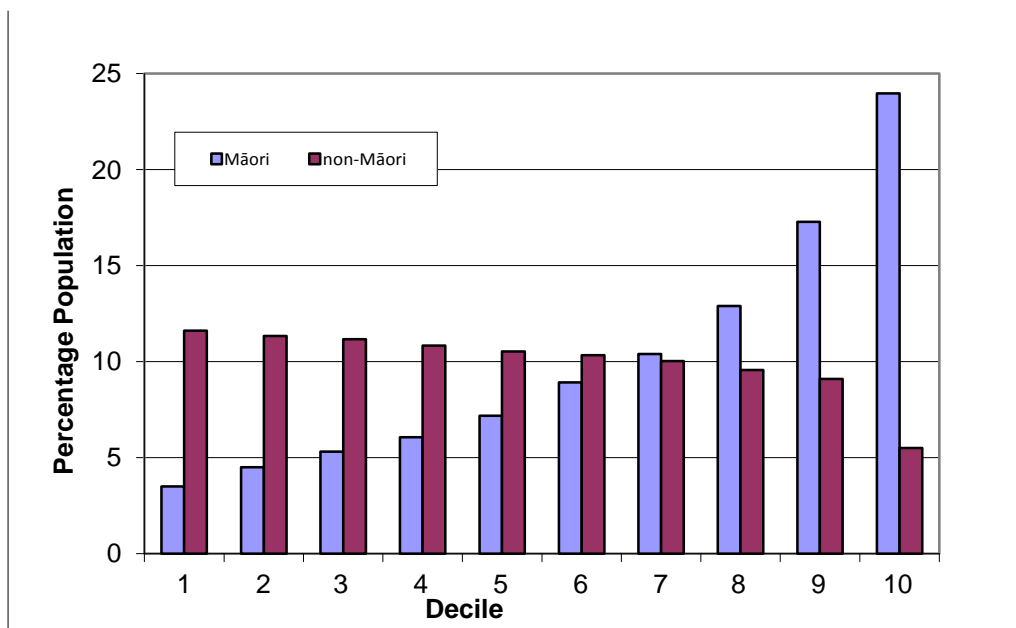
**Figure 7:** Distribution of South Canterbury DHB Area Units across NZDep06 Decile Groups, 2006 Census



**Figure 8:** South Canterbury DHB population, ethnicity and NZDep06 Decile



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



## 2.2 Education

The population of South Canterbury DHB has a lower proportion of university graduates (degree level and above) (7.0%), compared to the New Zealand population (14.2%). It also has a higher rate of people with no qualifications (30.9% compared to 22.4% for New Zealand).

## 2.3 Income

The South Canterbury DHB population has a lower proportion of the population earning over \$30,000 in personal income; 32.3 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 South Canterbury DHB population is slightly higher than that for New Zealand (96.6% compared to 94.9%). In terms of type of employment, there is a lower proportion of professionals and managers in the South Canterbury (31.0% compared to 36.0% nationally) and a higher proportion of machine operators and labourers (25.0% compared to 16.8% nationally).

## 2.5 Housing Tenure

More people own their own home in South Canterbury when compared to New Zealand, whilst fewer rent.

**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
South Canterbury	Number	13116	5304	2424	1005	21849
	Percentage	60.0	24.3	11.1	4.6	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

More people have access to a telephone in South Canterbury DHB, (91.1% compared to 87.8% nationally) whilst fewer people have access to the internet (52.7% compared to 58.0% nationally).

Access to a motor vehicle in South Canterbury DHB is similar to national levels.

### 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 South Canterbury DHB district, in comparison to all New Zealanders.

#### Key points

- Motor vehicle accidents, suicide and self-inflicted injuries, colorectal cancer, and breast cancer were four of the top five leading causes of avoidable mortality for non-Māori. Ischaemic heart disease was a leading cause of avoidable mortality for Māori.
- Epilepsy was a leading cause of avoidable hospitalisation for Māori while angina was a leading cause for non-Māori.
- A leading cause of hospitalisation for Māori children 0-4 years was dental conditions while other congenital malformations of the digestive system was a leading cause for non-Māori children.
- Dental conditions, respiratory infections, and ENT infections were leading causes for both Māori and non-Māori children aged 5-14 years.
- The leading causes of mortality for older non-Māori people were ischaemic heart disease, colorectal cancer, lung cancer, stroke, and COPD. Congestive heart failure, diabetes, respiratory infections, and symptoms and signs involving the digestive systems and abdomen were leading causes of hospitalisation for Māori aged 65 years and over, while angina, ischaemic heart disease, and disorders of lens were leading causes for older non-Māori people.
- The rate of COPD hospitalisation for the South Canterbury DHB was statistically significantly higher than the national rate.
- The unintentional injury hospitalisation rate for Māori youth 15-24 years in the South Canterbury DHB is statistically significantly lower than their non-Māori counterparts.
- Children under 15 years old in the South Canterbury DHB had a statistically significantly lower hospitalisation rate for asthma than children in New Zealand.

### 3.1 Avoidable Mortality

Overall, the avoidable mortality rate for Maori in the South Canterbury DHB was not statistically significantly different from the rate for 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	
South Canterbury	Female	205.2	-435.4	-	845.7	89.2	-15.9	-	199.6	
	Male	212.0	-437.9	-	862.0	152.0	16.6	-	285.0	
	Total	205.9	-240.2	-	652.0	120.1	34.7	-	207.4	
New Zealand	Female	214.6	168.7	-	260.5	74.2	63.5	-	99.6	
	Male	308.9	251.4	-	366.5	122.9	109.1	-	156.1	
	Total	259.8	223.3	-	296.3	98.1	89.4	-	123.8	

### 3.2 Leading Causes of Avoidable Mortality

Motor vehicle accidents, suicide and self-inflicted injuries, colorectal cancer, and breast cancer were four of the top five leading causes for non-Māori (Table 3.2). Due to low counts, only ischaemic heart disease could be determined as a leading cause of avoidable mortality for Maori.

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

	South Canterbury DHB		New Zealand	
	Condition	Rank	Condition	Rank
Māori	Ischaemic heart disease	1	Ischaemic heart disease	1
	*	2	Lung cancer	2
	*	3	Diabetes	3
	*	4	Motor vehicle accidents	4
	*	5	Suicide and self-inflicted injuries	5
non-Māori	Motor vehicle accidents	1	Ischaemic heart disease	1
	Suicide and self-inflicted injuries	2	Suicide and self-inflicted injuries	2
	Ischaemic heart disease	3	Lung cancer	3
	Colorectal cancer	4	Motor vehicle accidents	4
	Breast cancer (female only)	5	Colorectal cancer	5

Note: \*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 South Canterbury DHB were the same as those nationally (Table 3.3). Differences in leading causes between men and women were evident: breast cancer, diabetes, and lung cancer for women compared to ischaemic heart disease, suicide and self-inflicted injuries, and COPD for men.



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

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

Note: COPD=chronic obstructive pulmonary disease

### 3.3 Avoidable Hospitalisations

There was no statistically significant difference in the rates of avoidable hospitalisations for Māori and non-Māori (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	
South Canterbury	Female	3792.8	1017.5	- 6568.2	3015.7	2195.3	- 3836.1	3066.3	2287.5	- 3845.1
	Male	3574.6	846.5	- 6302.6	3271.7	2442.0	- 4101.4	3291.4	2506.7	- 4076.0
	Total	3700.4	1754.6	- 5646.2	3147.2	2562.7	- 3731.7	3181.2	2627.7	- 3734.7
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, ENT infections, gastroenteritis, and dental conditions were four of the top five leading causes of avoidable hospitalisations for both Māori and non-Māori (Table 3.5). Epilepsy was a leading cause for Māori while angina was a leading cause for non-Māori.

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

	South Canterbury DHB		New Zealand	
	Condition	Rank	Condition	Rank
Māori	ENT infections	1	Respiratory infections	1
	Respiratory infections	2	Dental conditions	2
	Dental conditions	3	Asthma	3
	Gastroenteritis	4	ENT infections	4
	Epilepsy	5	Angina	5
non-Māori	ENT infections	1	Respiratory infections	1
	Respiratory infections	2	Gastroenteritis	2
	Gastroenteritis	3	ENT infections	3
	Dental conditions	4	Dental conditions	4
	Angina	5	Angina	5

Note: ENT infections= ear, nose and throat infections

The leading causes of avoidable hospitalisations in the South Canterbury DHB were the same as those nationally (Table 3.6): respiratory infections, gastroenteritis, dental conditions, ENT infections, and angina. Sexually transmitted diseases was also a leading cause for women while angina was a leading cause for men.

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

	South Canterbury DHB		New Zealand	
	Condition	Rank	Condition	Rank
Female	Respiratory infections	1	Respiratory infections	1
	Gastroenteritis	2	Gastroenteritis	2
	ENT infections	3	Dental conditions	3
	Dental conditions	4	ENT infections	4
	Sexually-transmitted diseases	5	Cellulitis	5
Male	ENT infections	1	Respiratory infections	1
	Dental conditions	2	Gastroenteritis	2
	Respiratory infections	3	ENT infections	3
	Angina	4	Dental conditions	4
	Gastroenteritis	5	Angina	5
Total	ENT infections	1	Respiratory infections	1
	Respiratory infections	2	Gastroenteritis	2
	Gastroenteritis	3	Dental conditions	3
	Dental conditions	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 between the Maori and non-Maori rates of unintentional injury mortality (Table 3.7).

**Table 3.7:** 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	
South Canterbury	Female		*		18.4	-40.0	- 76.9	19.1	-38.0	- 76.3
	Male		*		36.4	-45.2	- 118.1	34.6	-40.7	- 109.9
	Total		*		27.2	-22.3	- 76.8	26.7	-20.1	- 73.5
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

Note: \*Rates are only calculated where the number of deaths is greater than or equal to five. An asterisk (\*) indicates that the rate is not available because of insufficient numbers.

### 3.6 Unintentional Injury Hospitalisations

The unintentional injury hospitalisation rate in South Canterbury 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	
South Canterbury	Female	836.7	-513.4	- 2186.7	926.3	472.2	- 1380.5	919.0	492.7	- 1345.2
	Male	1515.0	-263.1	- 3293.1	1652.2	1068.1	- 2236.3	1630.8	1082.3	- 2179.4
	Total	1175.3	62.9	- 2287.8	1298.9	926.1	- 1671.8	1282.5	933.0	- 1632.0
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 South Canterbury DHB were the same for Māori and non-Māori (Table 3.9). Dental conditions was a leading cause for Māori and other congenital malformations of the digestive system was a leading cause for non-Māori.

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

	South Canterbury DHB		New Zealand	
	Condition	Rank	Condition	Rank
Māori	Respiratory infections	1	Respiratory infections	1
	ENT infections	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
	Dental conditions	5	ENT infections	5
non-Māori	Respiratory infections	1	Persons encountering health services in other circumstances	1
	Disorders related to length of gestation and fetal growth	2	Respiratory infections	2
	ENT infections	3	Disorders related to length of gestation and fetal growth	3
	Gastro-oesophageal reflux disease	4	Gastro-oesophageal reflux disease	4
	Other congenital malformations of the digestive system	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 South Canterbury DHB were the same as those nationally (Table 3.10). These were also featured in the top four leading causes for both boys and girls in the South Canterbury DHB.

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

	South Canterbury 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
	*Persons encountering health services in other circumstances	4	Gastro-oesophageal reflux disease	4
	ENT infections	5	ENT infections	5
Male	Respiratory infections	1	Respiratory infections	1
	ENT infections	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
	Gastro-oesophageal reflux disease	4	Gastro-oesophageal reflux disease	4
	Other congenital malformations of the digestive system	5	ENT infections	5
Total	Respiratory infections	1	Respiratory infections	1
	Disorders related to length of gestation and fetal growth	2	Persons encountering health services in other circumstances	2
	ENT infections	3	Disorders related to length of gestation and fetal growth	3
	Gastro-oesophageal reflux disease	4	Gastro-oesophageal reflux disease	4
	Other congenital malformations of the digestive system	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 aged 5-14 years (Table 3.11).

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

	South Canterbury DHB		New Zealand	
	Condition	Rank	Condition	Rank
Māori	Dental conditions	1	Dental conditions	1
	ENT infections	2	Respiratory infections	2
	Respiratory infections	3	ENT infections	3
	Epilepsy	4	Injuries to the elbow and forearm	4
	Injuries to the head	5	*Persons encountering health services for specific procedures and health care	5
non-Māori	Respiratory infections	1	Respiratory infections	1
	Dental conditions	2	Dental conditions	2
	ENT infections	3	Injuries to the elbow and forearm	3
	Symptoms and signs involving the digestive system and abdomen	4	ENT infections	4
	Injuries to the elbow and forearm	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 South Canterbury DHB were the same as those for New Zealand generally (Table 3.12). These were respiratory infections, dental conditions, ENT infections, and injuries to the elbow and forearm. Injuries to the elbow and arm was a leading cause for girls while injuries to the head was a leading cause for boys.

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

	South Canterbury 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
	Symptoms and signs involving the digestive system and abdomen	5	*Persons encountering health services for specific procedures and health care	5
Male	Respiratory infections	1	Dental conditions	1
	Dental conditions	2	Respiratory infections	2
	ENT infections	3	Injuries to the elbow and forearm	3
	Symptoms and signs involving the digestive system and abdomen	4	ENT infections	4
	Injuries to the head	5	Injuries to the head	5
Total	Respiratory infections	1	Dental conditions	1
	Dental conditions	2	Respiratory infections	2
	ENT infections	3	Injuries to the elbow and forearm	3
	Symptoms and signs involving the digestive system and abdomen	4	ENT infections	4
	Injuries to the elbow and forearm	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

Ischaemic heart disease, colorectal cancer, lung cancer, stroke, and COPD were leading causes of mortality for older non-Māori in the South Canterbury DHB (Table 3.13). Leading causes were not calculated for older Māori people due to low counts.

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

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

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

Note: COPD=chronic obstructive pulmonary disease



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

Only two of the top five leading causes of hospitalisations for older Māori and non-Māori people in the South Canterbury DHB were the same (Table 3.15). These were persons encountering health services for specific procedures and health care and respiratory infections.

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

	South Canterbury DHB		New Zealand	
	Condition	Rank	Condition	Rank
Māori	*Persons encountering health services for specific procedures and health care	1	Persons encountering health services for specific procedures and health care	1
	Congestive heart failure	2	COPD	2
	Diabetes	3	Respiratory infections	3
	Symptoms and signs involving the digestive system and abdomen	4	Diabetes	4
	Respiratory infections	5	Angina	5
non-Māori	Persons encountering health services for specific procedures and health care	1	Persons encountering health services for specific procedures and health care	1
	Angina	2	Angina	2
	Ischaemic heart disease	3	Respiratory infections	3
	Respiratory infections	4	Ischaemic heart disease	4
	Disorders of lens	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 South Canterbury DHB were the same as those for New Zealand in general. These were angina, respiratory infections, persons encountering health services for specific procedures and health care, and ischaemic heart disease.

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

	South Canterbury DHB		New Zealand	
	Condition	Rank	Condition	Rank
Female	*Persons encountering health services for specific procedures and health care	1	Persons encountering health services for specific procedures and health care	1
	Angina	2	Angina	2
	Respiratory infections	3	Respiratory infections	3
	Disorders of lens	4	COPD	4
	Ischaemic heart disease	5	Other forms of heart disease	5
Male	Persons encountering health services for specific procedures and health care	1	Persons encountering health services for specific procedures and health care	1
	Angina	2	Angina	2
	Ischaemic heart disease	3	Respiratory infections	3
	Respiratory infections	4	Ischaemic heart disease	4
	Other forms of heart disease	5	Other forms of heart disease	5
Total	Persons encountering health services for specific procedures and health care	1	Persons encountering health services for specific procedures and health care	1
	Angina	2	Angina	2
	Ischaemic heart disease	3	Respiratory infections	3
	Respiratory infections	4	Ischaemic heart disease	4
	Disorders of lens	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 South Canterbury DHB are available in the appendices 2-4. Key points are listed here.

#### **3.9.1 Chronic conditions**

The rate of COPD hospitalisation in the South Canterbury DHB was statistically significantly higher than the national rate (Appendix 3: Table 3.1.27).

#### **3.9.2 Other conditions**

The unintentional injury hospitalisation rate for Māori youth aged 15-24 years in the South Canterbury DHB was statistically significantly lower than their non-Māori counterparts (Appendix 3: Table 3.1.14).

Children under 15 years of age in the South Canterbury DHB had a statistically significantly lower hospitalisation rate for asthma than children in New Zealand (Appendix 3: Table 3.1.28).

## 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 South Canterbury 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

- The DHB immunisation coverage rates for Māori and non-Māori at 2 years are considerably higher than the comparable national averages.
- The influenza vaccine coverage for those 65+ years in the DHB was similar to the national average for both Māori and non-Māori.
- The breast cancer screening coverage for Māori women (64.9%) was higher than the national (51.5%) but lower than the non-Māori (78.1%) coverage rates.
- 50.6 percent of Maori women aged 20 to 69 years in the DHB had a cervical smear in the past three years, compared to 77.5 percent of non-Māori women.

## 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 South Canterbury DHB, 79.7 percent of Māori children had received all specified immunisation vaccines by the age of two, which was lower than the non-Māori rate (83.7%), but higher than the national Māori rate (72.0%), (Table 4.1). The overall coverage rate in South Canterbury DHB (83.3%) was higher than that observed nationally (77.7%).

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

DHB	Māori	non-Māori	Total
South Canterbury DHB	79.7%	83.7%	83.3%
New Zealand	72.0%	79.4%	77.7%

## 4.2 Influenza Vaccine Coverage at 65+ Years

In the South Canterbury DHB, 53.2 percent 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 (57.7%) and the national Māori rates (54.4%). The coverage rate for the South Canterbury DHB (61.0%) was slightly higher than the national rate (60.5%).

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

DHB	Māori	non-Māori	Total
South Canterbury DHB	53.2%	57.7%	61.0%
New Zealand	54.4%	60.9%	60.5%

## 4.3 Breast Cancer Screening

Of women in the South Canterbury DHB aged 50-64 years, 77.6 percent had a mammogram to check for early signs of breast cancer in the past two years, which was higher than the national coverage rate (63.7%), (Table 4.3). The coverage rate for Māori women (64.9%) was lower compared to non-Māori women (78.1%), but higher than that 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
South Canterbury DHB	64.9%	78.1%	77.6%
New Zealand	51.5%	65.0%	63.7%

## 4.4 Cervical Cancer Screening

Of women aged 20 to 69 years in the South Canterbury DHB who had a primary health care provider, 87.8 percent had a cervical smear in the past three years, which was higher than the national rate of 72.6 percent (Table 4.4). The coverage rate for Māori women (50.6%) was lower compared to non-Māori women (77.5%).

**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>
South Canterbury DHB	50.6%	77.5%	87.8%
New Zealand	54.4%	75.5%	72.6%

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# Appendix 1

## Demographic Tables

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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			
South Canterbury	0-14	5,520	5,080	10,600	5,240	4,860	10,110	5,160	4,800	9,980	5,150	4,830	9,990	4,910	4,600	9,510	-	11.1	-	9.5	-	10.3
	15-64	17,170	17,370	34,550	17,260	17,350	34,600	16,680	16,830	33,500	15,770	15,980	31,780	15,080	15,130	30,220	-	12.2	-	12.9	-	12.5
	65+	4,390	5,560	9,960	5,300	6,250	11,550	6,030	6,870	12,920	6,910	7,610	14,510	7,660	8,460	16,120		74.5		52.2		61.9
	Total	27,080	28,010	55,110	27,800	28,460	56,260	27,870	28,500	56,400	27,830	28,420	56,280	27,650	28,190	55,850		2.1		0.6		1.3
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		
South Canterbury	310	260	570	330	310	640	310	290	610	300	280	580	290	270	560	-	6.5	3.8	-	1.8
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			
South Canterbury	1,270	1,190	2,460	1,430	1,330	2,760	1,340	1,250	2,600	1,280	1,200	2,480	1,240	1,160	2,400	-	2.4	-	2.5	-	2.4
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			
South Canterbury	1,830	1,690	3,520	1,690	1,550	3,240	1,840	1,720	3,560	1,720	1,610	3,340	1,650	1,540	3,190	-	9.8	-	8.9	-	9.4
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			
South Canterbury	2,110	1,940	4,050	1,790	1,670	3,470	1,670	1,540	3,210	1,850	1,740	3,590	1,730	1,630	3,360	-	18.0	-	16.0	-	17.0
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
South Canterbury	1,950	1,830	3,780	1,870	1,640	3,510	1,640	1,440	3,080	1,460	1,270	2,740	1,640	1,470	3,120	-	15.9	- 19.7 - 17.5
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
South Canterbury	1,220	1,090	2,310	1,670	1,490	3,160	1,600	1,310	2,910	1,310	1,060	2,380	1,140	890	2,040	-	6.6	- 18.3 - 11.7
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
South Canterbury	1,170	1,180	2,350	1,310	1,200	2,510	1,590	1,520	3,110	1,550	1,380	2,930	1,260	1,140	2,400	7.7	-	3.4 2.1
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
South Canterbury	1,490	1,570	3,070	1,200	1,340	2,540	1,240	1,310	2,540	1,610	1,620	3,230	1,570	1,480	3,040	5.4	-	5.7 - 1.0
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
South Canterbury	1,750	1,900	3,640	1,490	1,590	3,070	1,290	1,400	2,690	1,280	1,370	2,660	1,660	1,680	3,340	-	5.1	- 11.6 - 8.2
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
South Canterbury	1,960	2,190	4,150	1,780	1,870	3,650	1,570	1,660	3,230	1,300	1,400	2,700	1,300	1,370	2,670	-	33.7	- 37.4 - 35.7
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
South Canterbury	2,080	2,180	4,260	1,880	2,100	3,990	1,770	1,900	3,670	1,570	1,660	3,230	1,300	1,400	2,700	-	37.5	- 35.8 - 36.6
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
South Canterbury	2,040	1,950	4,000	2,100	2,190	4,290	1,940	2,160	4,100	1,750	1,880	3,630	1,560	1,640	3,200	-	23.5	- 15.9 - 20.0
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
South Canterbury	2,010	1,920	3,930	2,010	1,980	3,990	2,040	2,160	4,200	1,920	2,170	4,090	1,740	1,890	3,630	-	13.4	- 1.6 - 7.6
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
South Canterbury	1,500	1,560	3,060	1,950	1,950	3,890	2,000	1,970	3,970	2,020	2,170	4,190	1,910	2,170	4,080		27.3	39.1 33.3
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
South Canterbury	1,330	1,480	2,810	1,600	1,620	3,220	1,940	1,900	3,850	1,970	1,950	3,920	1,990	2,150	4,140		49.6	45.3 47.3
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
South Canterbury	1,150	1,230	2,380	1,350	1,450	2,810	1,420	1,500	2,920	1,860	1,840	3,690	1,890	1,890	3,780		64.3	53.7 58.8
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
South Canterbury	980	1,160	2,140	990	1,170	2,160	1,130	1,320	2,460	1,280	1,400	2,680	1,680	1,720	3,400	71.4	48.3	58.9
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
South Canterbury	570	910	1,490	820	960	1,770	810	970	1,780	930	1,140	2,070	1,060	1,220	2,280	86.0	34.1	53.0
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
South Canterbury	260	500	770	390	670	1,060	510	730	1,240	570	760	1,330	700	930	1,630	169.2	86.0	111.7
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
South Canterbury	100	280	370	150	380	530	220	450	670	300	520	820	340	550	890	240.0	96.4	140.5
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
South Canterbury	27,100	28,000	55,100	27,800	28,500	56,300	27,900	28,500	56,400	27,800	28,400	56,200	27,600	28,200	55,800	1.8	0.7	1.3
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
South Canterbury	0-14	630	600	1,230	710	670	1,380	790	720	1,490	840	800	1,640	870	820	1,700	38.1	36.7	38.2
	15-64	1,000	1,050	2,050	1,120	1,190	2,300	1,190	1,260	2,460	1,260	1,350	2,600	1,390	1,450	2,840	39.0	38.1	38.5
	65+	80	70	150	120	130	240	150	150	310	190	190	380	250	260	490	212.5	271.4	226.7
	Total	1,710	1,720	3,430	1,950	1,990	3,920	2,130	2,130	4,260	2,290	2,340	4,620	2,510	2,530	5,030	46.8	47.1	46.7
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
South Canterbury	50	40	90	60	50	110	60	50	110	60	60	120	60	60	120	20.0	50.0	33.3
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
South Canterbury	170	160	330	220	210	430	230	210	440	230	220	450	240	230	470	41.2	43.8	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
South Canterbury	200	210	410	240	210	450	280	260	530	280	270	550	290	270	570	45.0	28.6	39.0
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
South Canterbury	210	190	400	190	200	390	220	200	410	270	250	520	280	260	540	33.3	36.8	35.0
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
South Canterbury	200	210	410	200	180	380	180	200	380	200	190	390	250	240	500	25.0	14.3	22.0
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
South Canterbury	120	130	250	180	190	370	180	160	340	160	180	340	180	170	350	50.0	30.8	40.0
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
South Canterbury	120	100	220	120	130	240	170	180	350	160	150	310	140	170	310	16.7	70.0	40.9
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
South Canterbury	90	110	200	110	110	220	100	120	230	160	180	340	160	150	310	77.8	36.4	55.0
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
South Canterbury	100	110	210	100	110	210	120	100	220	100	120	220	160	180	340	60.0	63.6	61.9
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
South Canterbury	90	130	220	90	110	200	90	110	200	120	100	220	100	120	220	11.1	-	7.7
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	-

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
South Canterbury	90	100	190	90	130	220	100	110	210	90	110	200	120	100	220	33.3	-	15.8
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
South Canterbury	80	70	150	90	100	190	90	120	210	100	110	200	90	110	190	12.5	57.1	26.7
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
South Canterbury	70	50	120	80	80	160	90	90	180	90	120	210	100	100	200	42.9	100.0	66.7
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
South Canterbury	40	40	80	60	50	110	70	70	140	80	90	170	90	110	200	125.0	175.0	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
South Canterbury	40	30	70	40	50	90	60	50	110	70	70	130	80	90	160	100.0	200.0	128.6
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
South Canterbury	20	20	30	40	30	70	40	30	70	50	40	100	60	60	120	200.0	200.0	300.0
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	157.0

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
South Canterbury	10	20	30	20	20	40	30	30	60	30	30	60	50	40	90	400.0	100.0	200.0
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
South Canterbury	10	-	10	10	20	30	10	20	30	30	20	50	30	30	50	200.0	/	400.0
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
South Canterbury	-	-	10	10	10	10	10	10	30	10	20	30	20	30	50	/	/	400.0
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
South Canterbury	-	-	-	-	-	-	-	10	10	-	10	10	10	10	20	/	/	/
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
South Canterbury	1,700	1,730	3,430	1,960	1,990	3,950	2,120	2,140	4,260	2,310	2,330	4,640	2,510	2,520	5,030	47.6	45.7	46.6
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			
South Canterbury	0-14	4,890	4,480	9,370	4,530	4,190	8,730	4,370	4,080	8,490	4,310	4,030	8,350	4,040	3,780	7,810	-	17.4	-	15.6	-	16.6
	15-64	16,170	16,320	32,500	16,140	16,160	32,300	15,490	15,570	31,040	14,510	14,630	29,180	13,690	13,680	27,380	-	15.3	-	16.2	-	15.8
	65+	4,310	5,490	9,810	5,180	6,120	11,310	5,880	6,720	12,610	6,720	7,420	14,130	7,410	8,200	15,630		71.9		49.4		59.3
	Total	25,370	26,290	51,680	25,850	26,470	52,340	25,740	26,370	52,140	25,540	26,080	51,660	25,140	25,660	50,820	-	0.9	-	2.4	-	1.7
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			
South Canterbury	260	220	480	270	260	530	250	240	500	240	220	460	230	210	440	-	11.5	-	4.5	-	8.3
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			
South Canterbury	1,100	1,030	2,130	1,210	1,120	2,330	1,110	1,040	2,160	1,050	980	2,030	1,000	930	1,930	-	9.1	-	9.7	-	9.4
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			
South Canterbury	1,630	1,480	3,110	1,450	1,340	2,790	1,560	1,460	3,030	1,440	1,340	2,790	1,360	1,270	2,620	-	16.6	-	14.2	-	15.8
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			
South Canterbury	1,900	1,750	3,650	1,600	1,470	3,080	1,450	1,340	2,800	1,580	1,490	3,070	1,450	1,370	2,820	-	23.7	-	21.7	-	22.7
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
South Canterbury	1,750	1,620	3,370	1,670	1,460	3,130	1,460	1,240	2,700	1,260	1,080	2,350	1,390	1,230	2,620	-	20.6	- 24.1 - 22.3
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
South Canterbury	1,100	960	2,060	1,490	1,300	2,790	1,420	1,150	2,570	1,150	880	2,040	960	720	1,690	-	12.7	- 25.0 - 18.0
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
South Canterbury	1,050	1,080	2,130	1,190	1,070	2,270	1,420	1,340	2,760	1,390	1,230	2,620	1,120	970	2,090	6.7	- 10.2	- 1.9
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
South Canterbury	1,400	1,460	2,870	1,090	1,230	2,320	1,140	1,190	2,310	1,450	1,440	2,890	1,410	1,330	2,730	0.7	- 8.9	- 4.9
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
South Canterbury	1,650	1,790	3,430	1,390	1,480	2,860	1,170	1,300	2,470	1,180	1,250	2,440	1,500	1,500	3,000	-	9.1	- 16.2 - 12.5
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
South Canterbury	1,870	2,060	3,930	1,690	1,760	3,450	1,480	1,550	3,030	1,180	1,300	2,480	1,200	1,250	2,450	- 35.8	- 39.3	- 37.7
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
South Canterbury	1,990	2,080	4,070	1,790	1,970	3,770	1,670	1,790	3,460	1,480	1,550	3,030	1,180	1,300	2,480	-	40.7	- 39.1
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	- 8.6

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
South Canterbury	1,960	1,880	3,850	2,010	2,090	4,100	1,850	2,040	3,890	1,650	1,770	3,430	1,470	1,530	3,010	-	25.0	- 21.8
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
South Canterbury	1,940	1,870	3,810	1,930	1,900	3,830	1,950	2,070	4,020	1,830	2,050	3,880	1,640	1,790	3,430	-	15.5	- 10.0
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
South Canterbury	1,460	1,520	2,980	1,890	1,900	3,780	1,930	1,900	3,830	1,940	2,080	4,020	1,820	2,060	3,880	24.7	35.5	30.2
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
South Canterbury	1,290	1,450	2,740	1,560	1,570	3,130	1,880	1,850	3,740	1,900	1,880	3,790	1,910	2,060	3,980	48.1	42.1	45.3
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
South Canterbury	1,130	1,210	2,350	1,310	1,420	2,740	1,380	1,470	2,850	1,810	1,800	3,590	1,830	1,830	3,660	61.9	51.2	55.7
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
South Canterbury	970	1,140	2,110	970	1,150	2,120	1,100	1,290	2,400	1,250	1,370	2,620	1,630	1,680	3,310	68.0	47.4	56.9
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
South Canterbury	560	910	1,480	810	940	1,740	800	950	1,750	900	1,120	2,020	1,030	1,190	2,230	83.9	30.8	50.7
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
South Canterbury	260	500	760	380	660	1,050	500	720	1,210	560	740	1,300	680	900	1,580	161.5	80.0	107.9
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
South Canterbury	100	280	370	150	380	530	220	440	660	300	510	810	330	540	870	230.0	92.9	135.1
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
South Canterbury	25,370	26,290	51,680	25,850	26,470	52,340	25,740	26,370	52,140	25,540	26,080	51,660	25,140	25,660	50,820	-	0.9	- 2.4 - 1.7
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
South Canterbury	Number	1,542	1,794	2,109	1,854	1,164	1,146	1,443	1,716	1,941
	Percentage	6.0	7.0	8.0	7.0	4.0	4.0	5.0	6.0	7.0
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
South Canterbury	Number	2,055	1,974	1,962	1,452	1,278	1,128	960	561	348	26,430
	Percentage	8.0	7.0	7.0	5.0	5.0	4.0	4.0	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
South Canterbury	Number	1,425	1,701	1,929	1,719	1,071	1,155	1,560	1,854	2,172
	Percentage	5.0	6.0	7.0	6.0	4.0	4.0	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
South Canterbury	Number	2,133	1,911	1,884	1,494	1,461	1,191	1,137	882	774	27,447
	Percentage	8.0	7.0	7.0	5.0	5.0	4.0	4.0	3.0	3.0	
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
South Canterbury	Number	2,967	3,498	4,041	3,573	2,232	2,304	3,003	3,567	4,113
	Percentage	6.0	6.0	8.0	7.0	4.0	4.0	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
South Canterbury	Number	4,188	3,885	3,846	2,946	2,739	2,316	2,100	1,440	1,122	53,877
	Percentage	8.0	7.0	7.0	5.0	5.0	4.0	4.0	3.0	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	
	South Canterbury		New Zealand		South Canterbury		New Zealand		South Canterbury		New Zealand		South Canterbury		New Zealand		South Canterbury	New Zealand
	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Number
0–4	183	13.1	32,355	25.1	1,215	86.9	96,579	74.9	1,398	98.3	128,934	2,513.3	24	1.7	5,760	112.3	1,422	5,130
5–9	210	12.5	32,544	24.2	1,467	87.5	101,832	75.8	1,677	98.4	134,376	2,387.6	27	1.6	5,577	99.1	1,704	5,628
10–14	177	9.3	32,379	22.6	1,722	90.7	110,901	77.4	1,899	98.4	143,280	2,404.8	30	1.6	5,613	94.2	1,929	5,958
15–19	192	11.3	29,502	20.8	1,503	88.7	112,365	79.2	1,695	98.6	141,867	2,212.9	24	1.4	5,895	92.0	1,719	6,411
20–24	111	10.6	22,434	17.4	936	89.4	106,608	82.6	1,047	98.0	129,042	2,284.3	21	2.0	6,849	121.2	1,068	5,649
25–29	96	8.5	20,529	17.2	1,035	91.5	98,604	82.8	1,131	97.7	119,133	2,629.9	24	2.1	6,090	134.4	1,158	4,530
30–34	105	6.9	21,384	15.3	1,422	93.1	118,290	84.7	1,527	97.9	139,674	2,708.4	33	2.1	6,000	116.3	1,560	5,157
35–39	111	6.1	20,790	13.6	1,701	93.9	131,550	86.4	1,812	97.7	152,340	2,719.9	39	2.1	6,210	110.9	1,854	5,601
40–44	120	5.7	19,905	12.7	1,998	94.3	136,773	87.3	2,118	97.5	156,678	2,537.7	54	2.5	6,120	99.1	2,172	6,174
45–49	87	4.2	16,926	11.7	2,001	95.8	127,536	88.3	2,088	98.0	144,462	2,564.1	42	2.0	5,907	104.8	2,130	5,634
50–54	66	3.5	12,597	10.2	1,812	96.5	110,826	89.8	1,878	98.3	123,423	2,447.4	33	1.7	4,998	99.1	1,911	5,043
55–59	45	2.4	9,762	8.6	1,806	97.6	104,037	91.4	1,851	98.2	113,799	2,414.6	33	1.8	4,548	96.5	1,884	4,713
60–64	39	2.7	6,717	7.6	1,431	97.3	81,159	92.4	1,470	98.2	87,876	2,267.2	27	1.8	3,405	87.8	1,497	3,876
65–69	24	1.7	5,310	7.2	1,413	98.3	68,244	92.8	1,437	98.4	73,554	2,197.0	24	1.6	2,880	86.0	1,461	3,348
70–74	18	1.5	3,471	5.9	1,152	98.5	55,368	94.1	1,170	98.5	58,839	2,066.7	15	1.3	2,217	77.9	1,188	2,847
75–79	18	1.6	2,190	4.1	1,095	98.4	50,607	95.9	1,113	97.9	52,797	2,154.1	24	2.1	2,058	84.0	1,137	2,451
80–84	-	-	1,074	2.6	864	100.0	40,437	97.4	864	98.3	41,511	2,151.9	15	1.7	1,605	83.2	879	1,929
85 and over	3	0.4	609	1.6	756	99.6	37,002	98.4	759	97.7	37,611	2,143.1	18	2.3	1,389	79.1	777	1,755
Total	1,605	6.0	290,469	14.7	25,332	94.0	1,688,736	85.3	26,937	98.1	1,979,205	2,418.4	510	1.9	83,124	101.6	27,447	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	
	South Canterbury		New Zealand		South Canterbury		New Zealand		South Canterbury		New Zealand		South Canterbury		New Zealand		South Canterbury	New Zealand
	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Number
0–4	195	12.9	34,071	25.3	1,320	87.1	100,671	74.7	1,515	98.4	134,742	2,626.5	27	1.8	5,640	109.9	1,539	5,130
5–9	189	10.7	34,230	24.2	1,581	89.3	106,974	75.8	1,770	98.5	141,204	2,509.0	27	1.5	5,331	94.7	1,797	5,628
10–14	207	10.0	34,347	22.7	1,869	90.0	117,129	77.3	2,076	98.3	151,476	2,542.4	36	1.7	5,637	94.6	2,112	5,958
15–19	174	9.6	29,031	19.9	1,632	90.4	117,156	80.1	1,806	97.4	146,187	2,280.3	48	2.6	6,252	97.5	1,854	6,411
20–24	114	10.1	20,337	16.0	1,020	89.9	107,127	84.0	1,134	97.4	127,464	2,256.4	33	2.8	7,623	134.9	1,164	5,649
25–29	105	9.6	17,577	15.9	987	90.4	92,970	84.1	1,092	95.3	110,547	2,440.3	54	4.7	6,669	147.2	1,146	4,530
30–34	81	5.8	18,075	14.5	1,314	94.2	106,272	85.5	1,395	96.7	124,347	2,411.2	51	3.5	6,540	126.8	1,443	5,157
35–39	90	5.4	17,808	13.1	1,569	94.6	118,554	86.9	1,659	96.7	136,362	2,434.6	57	3.3	6,639	118.5	1,716	5,601
40–44	81	4.3	17,367	12.0	1,806	95.7	126,945	88.0	1,887	97.2	144,312	2,337.4	54	2.8	6,588	106.7	1,941	6,174
45–49	81	4.0	14,979	10.9	1,929	96.0	122,079	89.1	2,010	97.8	137,058	2,432.7	48	2.3	5,994	106.4	2,055	5,634
50–54	69	3.6	11,595	9.7	1,860	96.4	107,670	90.3	1,929	97.7	119,265	2,365.0	45	2.3	5,046	100.1	1,974	5,043
55–59	57	3.0	8,868	8.0	1,866	97.0	101,742	92.0	1,923	98.0	110,610	2,346.9	36	1.8	4,614	97.9	1,962	4,713
60–64	33	2.3	6,096	7.2	1,389	97.7	78,822	92.8	1,422	97.9	84,918	2,190.9	30	2.1	3,420	88.2	1,452	3,876
65–69	39	3.1	4,848	7.0	1,218	96.9	64,494	93.0	1,257	98.1	69,342	2,071.1	21	1.6	2,769	82.7	1,281	3,348
70–74	15	1.4	3,039	5.7	1,086	98.6	50,718	94.3	1,101	97.9	53,757	1,888.2	27	2.4	2,121	74.5	1,125	2,847
75–79	12	1.3	1,620	3.6	930	98.7	42,957	96.4	942	98.1	44,577	1,818.7	18	1.9	1,782	72.7	960	2,451
80–84	3	0.6	693	2.5	540	99.4	27,219	97.5	543	96.8	27,912	1,447.0	18	3.2	1,212	62.8	561	1,929
85 and over	-	-	279	1.7	342	100.0	16,599	98.3	342	98.3	16,878	961.7	6	1.7	789	45.0	348	1,755
Total	1,551	6.0	274,860	14.6	24,252	94.0	1,606,098	85.4	25,803	97.6	1,880,958	2,298.3	630	2.4	84,660	103.4	26,433	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	
	South Canterbury		New Zealand		South Canterbury		New Zealand		South Canterbury		New Zealand		South Canterbury		New Zealand		South Canterbury	New Zealand
	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Number
0–4	381	13.1	66,426	25.2	2,535	86.9	197,250	74.8	2,916	98.4	263,676	95.9	51	1.7	11,400	4.1	2,964	275,079
5–9	399	11.6	66,774	24.2	3,045	88.4	208,806	75.8	3,444	98.5	275,580	96.2	54	1.5	10,908	3.8	3,498	286,488
10–14	384	9.7	66,726	22.6	3,588	90.3	228,030	77.4	3,972	98.4	294,756	96.3	66	1.6	11,253	3.7	4,038	306,009
15–19	366	10.5	58,533	20.3	3,135	89.5	229,521	79.7	3,501	98.1	288,054	96.0	69	1.9	12,144	4.0	3,570	300,198
20–24	228	10.5	42,771	16.7	1,950	89.5	213,735	83.3	2,178	97.6	256,506	94.7	54	2.4	14,472	5.3	2,232	270,978
25–29	201	9.0	38,106	16.6	2,025	91.0	191,577	83.4	2,226	96.6	229,683	94.7	81	3.5	12,759	5.3	2,304	242,442
30–34	186	6.4	39,459	14.9	2,736	93.6	224,562	85.1	2,922	97.3	264,021	95.5	84	2.8	12,540	4.5	3,003	276,561
35–39	201	5.8	38,598	13.4	3,273	94.2	250,104	86.6	3,474	97.3	288,702	95.7	96	2.7	12,852	4.3	3,570	301,554
40–44	198	4.9	37,272	12.4	3,807	95.1	263,718	87.6	4,005	97.4	300,990	95.9	108	2.6	12,708	4.1	4,113	313,698
45–49	171	4.2	31,908	11.3	3,924	95.8	249,612	88.7	4,095	97.8	281,520	95.9	90	2.2	11,901	4.1	4,185	293,421
50–54	135	3.5	24,192	10.0	3,672	96.5	218,496	90.0	3,807	98.0	242,688	96.0	75	1.9	10,044	4.0	3,885	252,732
55–59	102	2.7	18,630	8.3	3,675	97.3	205,779	91.7	3,777	98.2	224,409	96.1	72	1.9	9,162	3.9	3,846	233,574
60–64	75	2.6	12,816	7.4	2,817	97.4	159,975	92.6	2,892	98.1	172,791	96.2	57	1.9	6,825	3.8	2,949	179,616
65–69	60	2.2	10,158	7.1	2,634	97.8	132,741	92.9	2,694	98.4	142,899	96.2	45	1.6	5,646	3.8	2,739	148,548
70–74	33	1.5	6,510	5.8	2,241	98.5	106,086	94.2	2,274	98.2	112,596	96.3	42	1.8	4,338	3.7	2,316	116,934
75–79	30	1.5	3,807	3.9	2,025	98.5	93,567	96.1	2,055	97.9	97,374	96.2	42	2.0	3,840	3.8	2,100	101,214
80–84	6	0.4	1,764	2.5	1,401	99.6	67,659	97.5	1,407	97.7	69,423	96.1	33	2.3	2,814	3.9	1,440	72,240
85 and over	6	0.5	888	1.6	1,095	99.5	53,604	98.4	1,101	98.1	54,492	96.2	24	2.1	2,178	3.8	1,122	56,670
Total	3,159	6.0	565,326	14.6	49,578	94.0	3,294,837	85.4	52,737	97.9	3,860,163	95.8	1,140	2.1	167,784	4.2	53,877	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
South Canterbury	Number	47,046	729	183	2,730	537	180	588	324	5,268	1,566	53,880
	Percentage	87.0	1.0	-	5.0	1.0	-	1.0	1.0	10.0	3.0	
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
South Canterbury	Number	10,692	22,443	1,494	3,123	3,372	2,256	43,374
	Percentage	24.7	51.7	3.4	7.2	7.8	5.2	
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
South Canterbury	Number	588	22,134	4,824	27,543	876	7,410	1,011	1,794	2,793	13,887	1,944	43,377
	Percentage	2.1	80.4	17.5	66.5	6.3	53.4	7.3	12.9	20.1	33.5		
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
South Canterbury	Number	7,485	5,877	1,917	15,279
	Percentage	49.0	38.5	12.6	
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
South Canterbury	Number	14,943	162	3	693	5,904	141	21,849
	Percentage	68.4	0.7	0.0	3.2	27.0	0.7	
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
South Canterbury	Number	765	48,702	2,391	408	99	18	21	1,482	53,877
	Percentage	1.4	90.4	4.4	0.8	0.2	0.0	0.0	2.8	
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
South Canterbury	No children	1,542	32.7	699	14.8	549	11.6	372	7.9	243	5.2
	One child	42	2.0	192	9.3	225	10.9	294	14.2	258	12.5
	Two children	-	-	72	1.3	198	3.6	492	8.9	654	11.8
	Three children	3	0.1	12	0.3	75	1.7	201	4.4	381	8.4
	Four children	-	-	6	0.3	18	0.8	72	3.1	135	5.9
	Five children	-	-	3	0.3	3	0.3	18	2.1	33	3.8
	Six or more children	-	-	-	-	3	0.4	6	0.9	15	2.2
	Object to answering	24	3.4	30	4.2	30	4.2	51	7.2	63	8.9
	Not elsewhere included(2)	108	10.8	57	5.7	60	6.0	60	6.0	69	6.9
	Total	1,719	7.7	1,068	4.8	1,158	5.2	1,560	7.0	1,854	8.3
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
South Canterbury	No children	252	5.3	171	3.6	156	3.3	132	2.8	126	2.7
	One child	216	10.4	204	9.9	144	7.0	120	5.8	57	2.8
	Two children	741	13.4	729	13.2	624	11.3	594	10.7	417	7.5
	Three children	534	11.8	540	12.0	561	12.4	588	13.0	414	9.2
	Four children	189	8.2	234	10.2	210	9.2	216	9.4	231	10.1
	Five children	42	4.9	51	5.9	60	6.9	60	6.9	90	10.4
	Six or more children	39	5.7	36	5.3	21	3.1	39	5.7	45	6.6
	Object to answering	81	11.4	87	12.2	66	9.3	69	9.7	63	8.9
	Not elsewhere included(2)	72	7.2	84	8.4	69	6.9	69	6.9	60	6.0
	Total	2,169	9.7	2,130	9.5	1,911	8.5	1,884	8.4	1,497	6.7
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
South Canterbury	No children	99	2.1	102	2.2	96	2.0	87	1.8	96	2.0	4,716
	One child	75	3.6	63	3.0	54	2.6	63	3.0	66	3.2	2,067
	Two children	315	5.7	204	3.7	192	3.5	162	2.9	147	2.7	5,532
	Three children	363	8.0	276	6.1	246	5.4	198	4.4	135	3.0	4,518
	Four children	300	13.1	207	9.0	219	9.5	147	6.4	111	4.8	2,295
	Five children	117	13.5	126	14.6	120	13.9	81	9.4	60	6.9	864
	Six or more children	90	13.2	123	18.0	114	16.7	84	12.3	75	11.0	684
	Object to answering	54	7.6	33	4.6	30	4.2	12	1.7	21	3.0	711
	Not elsewhere included(2)	57	5.7	54	5.4	69	6.9	54	5.4	60	6.0	999
	Total	1,461	6.5	1,191	5.3	1,137	5.1	879	3.9	774	3.5	22,392
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
South Canterbury	Number	2,853	15,588	4,854	1,134	2,070	1,329	3,252	19,167	1,818	20,985
	Percentage	13.6	74.3	23.1	5.4	9.9	6.3	15.5			
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
South Canterbury	Number	1,698	18,375	6,729	1,851	4,389	2,694	4,188	20,520	1,869	22,392
	Percentage	7.6	82.1	30.1	8.3	19.6	12.0	18.7			
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
South Canterbury	Number	4,551	33,960	11,583	2,985	6,462	4,023	7,440	39,687	3,690	43,377
	Percentage	10.5	78.3	26.7	6.9	14.9	9.3	17.2			
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
South Canterbury	Number	13,386	6,930	3,810	1,404	1,083	1,551	4,404
	Percentage	30.9	16.0	8.8	3.2	2.5	3.6	10.2
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
South Canterbury	Number	1,398	2,187	2,250	423	288	60	4,203	43,374
	Percentage	3.2	5.0	5.2	1.0	0.7	0.1	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
South Canterbury	Number	234	1,512	2,952	3,288	6,882	4,491	3,573	3,219
	Percentage	0.5	3.5	6.8	7.6	15.9	10.4	8.2	7.4
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
South Canterbury	Number	2,814	2,757	3,450	3,186	1,002	735	3,294	43,374
	Percentage	6.5	6.4	8.0	7.4	2.3	1.7	7.6	
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
South Canterbury	Number	1,815	23,589	7,380	11,448	747	9,264	1,272
	Percentage	4.2	54.4	17.0	26.4	1.7	21.4	2.9
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
South Canterbury	Number	1,371	828	1,041	1,665	318	1,290	645	1,572	43,374
	Percentage	3.2	1.9	2.4	3.8	0.7	3.0	1.5	3.6	
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
South Canterbury	Number	20,103	6,753	26,859	960	27,816	14,892	666	43,377
	Percentage	74.9	25.1	96.6	3.5	64.1	34.3	1.5	
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)	Total
South Canterbury	Number	4,857	3,399	3,387	2,097	2,631	2,166	1,884	4,950	1,482	26,859
	Percentage	18.0	13.0	13.0	8.0	10.0	8.0	7.0	18.0	6.0	
New Zealand	Number	340,530	374,328	241,857	156,468	240,813	186,057	114,324	218,991	112,404	1,985,775
	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
South Canterbury	Number	15,312	19,911	5,286	11,514	324	21,426	420	21,849
	Percentage	70.1	91.1	24.2	52.7	1.5	98.1	1.9	
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					
		No motor vehicle	One motor vehicle	Two motor vehicles	Three or more motor vehicles	Not elsewhere included(2)	Total
South Canterbury	Number	1,632	8,019	8,217	3,555	429	21,849
	Percentage	7.5	36.7	37.6	16.3	2.0	
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)
South Canterbury	Number	525	6,375	6,216	13,116
	Percentage	4.00	48.60	47.39	
New Zealand	Number	26,529	405,267	312,162	743,955
	Percentage	3.57	54.47	41.96	

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)
South Canterbury	Number	129	4,113	1,059	5,304
	Percentage	2.43	77.55	19.97	
New Zealand	Number	6,315	388,275	57,378	451,965
	Percentage	1.40	85.91	12.70	

Housing Tenure							
Dwelling held in a family trust by usual resident(s) <sup>(2)</sup>							
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)	Not elsewhere included <sup>(3)</sup>	Total
South Canterbury	Number	231	771	1,422	2,424	1,005	21,849
	Percentage	9.53	31.81	58.66			
New Zealand	Number	13,386	72,828	81,711	167,925	90,333	
	Percentage	7.97	43.37	48.66			

(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
South Canterbury	Female	205.2	-435.4 - 845.7	89.2	-15.9 - 194.3	94.8	-10.0 - 199.6
	Male	212.0	-437.9 - 862.0	152.0	16.6 - 287.5	153.9	22.8 - 285.0
	Total	205.9	-240.2 - 652.0	120.1	34.7 - 205.5	123.8	40.2 - 207.4
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
South Canterbury	Female	0.0	0.0 - 0.0	35.0	2.5 - 67.5	35.8	2.8 - 68.8
	Male	132.6	-369.8 - 635.0	57.4	7.5 - 107.2	60.2	8.1 - 112.4
	Total	88.2	-192.7 - 369.2	45.8	16.5 - 75.1	47.7	17.3 - 78.1
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
South Canterbury	Female	0.0	0.0 - 0.0	29.8	14.0 - 45.5	29.5	13.9 - 45.0
	Male	192.0	-228.5 - 612.5	79.2	40.5 - 117.8	84.6	42.5 - 126.6
	Total	97.2	-110.5 - 305.0	53.1	32.8 - 73.4	55.6	33.9 - 77.4
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
South Canterbury	Female	0.0	0.0 - 0.0	18.2	3.1 - 33.3	20.4	2.8 - 38.0
	Male	0.0	0.0 - 0.0	20.1	3.3 - 36.9	20.1	3.7 - 36.6
	Total	0.0	0.0 - 0.0	19.3	8.0 - 30.7	20.5	8.3 - 32.7
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
South Canterbury	Female	85.5	-309.1 - 480.0	57.3	-3.6 - 118.2	58.1	-0.9 - 117.0
	Male	73.4	-267.7 - 414.5	67.8	12.0 - 123.7	68.2	13.7 - 122.7
	Total	76.8	-175.2 - 328.8	61.5	20.4 - 102.6	62.1	22.1 - 102.1
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
South Canterbury	Female	0.0	0.0 - 0.0	12.4	-1.2 - 25.9	15.9	-1.0 - 32.8
	Male	0.0	0.0 - 0.0	29.1	6.4 - 51.7	29.2	6.9 - 51.5
	Total	0.0	0.0 - 0.0	20.0	7.1 - 32.9	21.9	8.1 - 35.7
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
South Canterbury	Female	0.0	0.0 - 0.0	33.0	2.2 - 63.8	33.8	3.6 - 63.9
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
South Canterbury	Male	0.0	0.0 - 0.0	12.9	-0.1 - 25.9	12.6	0.0 - 25.3
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
South Canterbury	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
South Canterbury	Female	0.0	0.0 - 0.0	19.3	1.0 - 37.6	18.9	1.0 - 36.8
	Male	0.0	0.0 - 0.0	36.0	2.5 - 69.5	34.8	3.5 - 66.1
	Total	0.0	0.0 - 0.0	27.1	8.3 - 45.9	26.3	8.5 - 44.2
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
South Canterbury	Female	0.0	0.0 - 0.0	4.8	-3.3 - 12.9	4.7	-3.2 - 12.7
	Male	0.0	0.0 - 0.0	7.6	-5.6 - 20.7	7.3	-5.3 - 20.0
	Total	0.0	0.0 - 0.0	6.1	-1.6 - 13.7	5.9	-1.5 - 13.3
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
South Canterbury	Female	0.0	0.0 - 0.0	18.4	-40.0 - 76.9	19.1	-38.0 - 76.3
	Male	0.0	0.0 - 0.0	36.4	-45.2 - 118.1	34.6	-40.7 - 109.9
	Total	0.0	0.0 - 0.0	27.2	-22.3 - 76.8	26.7	-20.1 - 73.5
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
South Canterbury	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	29.5	-39.8 - 98.8	28.8	-36.4 - 94.1
	Total	0.0	0.0 - 0.0	14.9	-20.5 - 50.4	15.2	-18.5 - 48.9
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
South Canterbury	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
South Canterbury	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	61.8	16.4 - 107.1	55.4	14.7 - 96.1
	Total	0.0	0.0 - 0.0	52.2	20.6 - 83.8	46.6	18.3 - 74.8
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
South Canterbury	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	72.5	18.7 - 126.2	65.2	16.8 - 113.6
	Total	0.0	0.0 - 0.0	38.3	9.8 - 66.7	34.1	8.7 - 59.5
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
South Canterbury	Female	0.0	0.0 - 0.0	343.0	330.5 - 355.5	340.5	328.1 - 352.8
	Male	0.0	0.0 - 0.0	677.3	654.0 - 700.6	687.2	663.8 - 710.6
	Total	0.0	0.0 - 0.0	495.2	482.6 - 507.9	499.2	486.6 - 511.9
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
South Canterbury	Female	0.0	0.0 - 0.0	199.8	190.1 - 209.5	202.7	193.0 - 212.4
	Male	0.0	0.0 - 0.0	199.2	188.0 - 210.4	202.5	191.2 - 213.7
	Total	0.0	0.0 - 0.0	201.4	194.1 - 208.7	204.5	197.2 - 211.8
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
South Canterbury	Female	0.0	0.0 - 0.0	109.1	99.8 - 118.5	117.7	107.8 - 127.5
	Male	0.0	0.0 - 0.0	277.1	260.3 - 294.0	282.7	265.8 - 299.6
	Total	0.0	0.0 - 0.0	183.5	174.3 - 192.7	191.0	181.6 - 200.5
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
South Canterbury	Female	0.0	0.0 - 0.0	138.5	126.3 - 150.7	146.3	133.8 - 158.8
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
South Canterbury	Male	0.0	0.0 - 0.0	5.8	-7.2 - 18.8	5.7	-7.0 - 18.4
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
South Canterbury	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
South Canterbury	Female	0.0	0.0 - 0.0	126.8	116.8 - 136.8	125.0	115.2 - 134.9
	Male	0.0	0.0 - 0.0	295.3	278.0 - 312.6	289.5	272.6 - 306.4
	Total	0.0	0.0 - 0.0	204.6	194.9 - 214.3	201.2	191.7 - 210.7
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
South Canterbury	Female	0.0	0.0 - 0.0	50.7	44.2 - 57.2	50.0	43.6 - 56.4
	Male	0.0	0.0 - 0.0	44.5	38.4 - 50.6	43.8	37.8 - 49.8
	Total	0.0	0.0 - 0.0	46.3	41.9 - 50.7	45.6	41.3 - 49.9
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
South Canterbury	Female	0.0	0.0 - 0.0	122.8	113.8 - 131.8	121.5	112.6 - 130.4
	Male	0.0	0.0 - 0.0	250.3	236.4 - 264.2	247.1	233.4 - 260.8
	Total	0.0	0.0 - 0.0	174.8	166.8 - 182.7	172.6	164.8 - 180.4
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

	South Canterbury DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Breast cancer (female only)	14.7	Breast cancer (female only)	10.7
	Motor vehicle accidents	14.3	Lung cancer	9.3
	Diabetes	10.3	Ischaemic heart disease	8.1
	Colorectal cancer	6.7	Colorectal cancer	5.9
	Lung cancer	5.6	Diabetes	5.8
Male	Suicide and self-inflicted injuries	25.4	Ischaemic heart disease	27.3
	Ischaemic heart disease	24.4	Suicide and self-inflicted injuries	15.7
	Motor vehicle accidents	23.2	Motor vehicle accidents	12.3
	Colorectal cancer	13.3	Lung cancer	10.8
	Lung cancer	9.7	Diabetes	8.3
Total	Motor vehicle accidents	18.6	Ischaemic heart disease	17.4
	Ischaemic heart disease	13.9	Suicide and self-inflicted injuries	10.4
	Suicide and self-inflicted injuries	13.4	Lung cancer	10.0
	Colorectal cancer	9.9	Motor vehicle accidents	8.6
	Lung cancer	7.6	Diabetes	7.0

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

	South Canterbury DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Ischaemic heart disease	44.4	Ischaemic heart disease	51.4
	#N/A	#N/A	Lung cancer	31.6
	#N/A	#N/A	Diabetes	26.8
	#N/A	#N/A	Motor vehicle accidents	17.8
	#N/A	#N/A	Suicide and self-inflicted injuries	15.4
non-Māori	Motor vehicle accidents	18.6	Ischaemic heart disease	14.3
	Suicide and self-inflicted injuries	13.1	Suicide and self-inflicted injuries	9.3
	Ischaemic heart disease	12.7	Lung cancer	8.1
	Colorectal cancer	10.2	Motor vehicle accidents	6.7
	Breast cancer (female only)	7.3	Colorectal cancer	6.7

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

	South Canterbury DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Ischaemic heart disease	337.1	Ischaemic heart disease	418.5
	Stroke	183.7	Stroke	206.0
	Breast cancer (female only)	146.3	CORD	172.8
	Colorectal cancer	125.0	Lung cancer	153.4
	Lung cancer	117.7	Colorectal cancer	131.3
Male	Ischaemic heart disease	687.2	Ischaemic heart disease	757.4
	Colorectal cancer	289.5	Lung cancer	245.3
	Lung cancer	282.7	CORD	238.4
	CORD	247.1	Stroke	207.5
	Stroke	165.1	Colorectal cancer	178.9
Total	Ischaemic heart disease	496.9	Ischaemic heart disease	571.4
	Colorectal cancer	201.2	Stroke	210.0
	Lung cancer	191.0	CORD	197.9
	Stroke	178.8	Lung cancer	194.3
	CORD	172.6	Colorectal cancer	152.9

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

	South Canterbury DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	#N/A	#N/A	Ischaemic heart disease	1109.6
	#N/A	#N/A	Lung cancer	497.3
	#N/A	#N/A	CORD	465.0
	#N/A	#N/A	Diabetes	389.4
	#N/A	#N/A	Stroke	247.1
non-Māori	Ischaemic heart disease	492.9	Ischaemic heart disease	540.1
	Colorectal cancer	204.6	Stroke	207.2
	Lung cancer	183.5	CORD	182.8
	Stroke	177.8	Lung cancer	175.1
	CORD	174.8	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
South Canterbury	Female	3792.8	1017.5 - 6568.2	3015.7	2195.3 - 3836.1	3066.3	2287.5 - 3845.1
	Male	3574.6	846.5 - 6302.6	3271.7	2442.0 - 4101.4	3291.4	2506.7 - 4076.0
	Total	3700.4	1754.6 - 5646.2	3147.2	2562.7 - 3731.7	3181.2	2627.7 - 3734.7
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
South Canterbury	Female	474.5	-474.8 - 1423.9	391.8	210.8 - 572.8	392.3	219.9 - 564.7
	Male	854.6	-394.2 - 2103.5	600.4	390.1 - 810.7	617.4	405.9 - 828.9
	Total	689.4	-106.7 - 1485.5	492.0	354.5 - 629.6	501.2	365.7 - 636.7
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
South Canterbury	Female	154.3	-205.7 - 514.3	296.2	214.2 - 378.1	293.5	213.7 - 373.2
	Male	563.5	-68.7 - 1195.6	575.3	452.0 - 698.6	577.4	456.2 - 698.5
	Total	395.3	8.1 - 782.5	430.6	357.5 - 503.8	430.5	358.9 - 502.2
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
South Canterbury	Female	307.7	-202.9 - 818.3	75.1	37.6 - 112.6	84.3	42.7 - 125.9
	Male	0.0	0.0 - 0.0	98.0	46.5 - 149.4	97.1	47.4 - 146.9
	Total	182.9	-90.5 - 456.3	85.7	54.3 - 117.1	90.0	57.9 - 122.1
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
South Canterbury	Female	476.3	-477.7 - 1430.3	369.7	186.9 - 552.5	373.9	195.7 - 552.1
	Male	223.2	-393.8 - 840.2	435.1	258.4 - 611.7	424.6	257.5 - 591.7
	Total	334.4	-209.8 - 878.7	398.2	271.6 - 524.9	395.2	273.7 - 516.8
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
South Canterbury	Female	236.0	-213.6 - 685.6	50.2	20.9 - 79.4	56.4	24.5 - 88.2
	Male	0.0	0.0 - 0.0	80.5	40.5 - 120.5	78.4	39.6 - 117.1
	Total	114.1	-103.6 - 331.8	64.3	39.7 - 88.9	66.3	41.4 - 91.2
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
South Canterbury	Female	208.3	-197.0 - 613.7	175.3	97.8 - 252.9	176.2	100.5 - 251.8
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
South Canterbury	Male	0.0	0.0 - 0.0	69.7	34.7 - 104.6	68.0	34.0 - 101.9
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
South Canterbury	Female	0.0	0.0 - 0.0	9.1	-7.8 - 26.1	8.9	-7.4 - 25.1
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
South Canterbury	Female	0.0	0.0 - 0.0	60.4	27.0 - 93.9	60.3	27.5 - 93.0
	Male	0.0	0.0 - 0.0	104.6	53.9 - 155.4	102.1	53.6 - 150.6
	Total	0.0	0.0 - 0.0	81.6	51.5 - 111.7	80.4	51.3 - 109.4
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
South Canterbury	Female	0.0	0.0 - 0.0	71.5	29.2 - 113.8	69.5	28.8 - 110.2
	Male	0.0	0.0 - 0.0	122.1	74.9 - 169.3	120.4	74.2 - 166.7
	Total	0.0	0.0 - 0.0	95.0	63.5 - 126.5	93.3	62.7 - 123.9
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
South Canterbury	Female	836.7	-513.4 - 2186.7	926.3	472.2 - 1380.5	919.0	492.7 - 1345.2
	Male	1515.0	-263.1 - 3293.1	1652.2	1068.1 - 2236.3	1630.8	1082.3 - 2179.4
	Total	1175.3	62.9 - 2287.8	1298.9	926.1 - 1671.8	1282.5	933.0 - 1632.0
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
South Canterbury	Female	0.0	0.0 - 0.0	86.6	-42.8 - 216.0	85.2	-37.0 - 207.4
	Male	128.6	-388.6 - 645.8	54.8	-38.3 - 147.9	61.8	-35.2 - 158.8
	Total	93.9	-205.7 - 393.5	70.1	-8.6 - 148.8	73.1	-4.3 - 150.5
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
South Canterbury	Female	0.0	0.0 - 0.0	904.0	708.0 - 1100.1	812.8	637.8 - 987.7
	Male	1899.4	1105.2 - 2693.5	2871.4	2538.6 - 3204.2	2774.8	2464.9 - 3084.8
	Total	982.8	582.5 - 1383.1	1939.6	1741.1 - 2138.2	1836.2	1653.9 - 2018.4
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
South Canterbury	Female	0.0	0.0 - 0.0	2116.3	2072.7 - 2159.9	2086.2	2043.4 - 2129.1
	Male	0.0	0.0 - 0.0	3104.3	3047.5 - 3161.1	3080.4	3024.5 - 3136.3
	Total	1138.7	961.1 - 1316.3	2563.1	2527.9 - 2598.3	2538.2	2503.6 - 2572.9
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
South Canterbury	Female	0.0	0.0 - 0.0	540.1	520.9 - 559.3	551.8	532.4 - 571.2
	Male	0.0	0.0 - 0.0	718.1	693.2 - 743.1	705.9	681.5 - 730.4
	Total	0.0	0.0 - 0.0	620.2	604.8 - 635.6	621.1	605.7 - 636.4
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
South Canterbury	Female	0.0	0.0 - 0.0	419.5	398.9 - 440.2	412.2	391.9 - 432.4
	Male	0.0	0.0 - 0.0	568.2	544.6 - 591.8	557.4	534.3 - 580.5
	Total	0.0	0.0 - 0.0	478.9	463.4 - 494.3	470.1	455.0 - 485.3
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
South Canterbury	Female	0.0	0.0 - 0.0	425.0	404.4 - 445.7	422.3	402.0 - 442.6
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
South Canterbury	Male	0.0	0.0 - 0.0	20.9	-3.4 - 45.3	20.5	-3.3 - 44.4
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
South Canterbury	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
South Canterbury	Female	0.0	0.0 - 0.0	440.6	421.3 - 459.8	449.7	430.4 - 469.0
	Male	0.0	0.0 - 0.0	739.1	711.3 - 766.8	731.7	704.4 - 758.9
	Total	0.0	0.0 - 0.0	579.0	562.5 - 595.6	580.9	564.5 - 597.3
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
South Canterbury	Female	0.0	0.0 - 0.0	425.0	405.8 - 444.2	418.8	399.9 - 437.6
	Male	0.0	0.0 - 0.0	1028.7	996.6 - 1060.9	1008.6	977.2 - 1040.0
	Total	0.0	0.0 - 0.0	700.9	682.8 - 719.1	688.9	671.1 - 706.7
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
South Canterbury	Female	0.0	0.0 - 0.0	740.3	714.5 - 766.1	738.8	713.2 - 764.4
	Male	0.0	0.0 - 0.0	960.3	930.7 - 989.8	955.6	926.4 - 984.8
	Total	0.0	0.0 - 0.0	824.3	805.0 - 843.6	821.5	802.4 - 840.6
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
South Canterbury	Female	195.6	-299.0 - 690.2	87.9	2.4 - 173.4	92.2	6.9 - 177.5
	Male	191.3	-282.9 - 665.5	138.7	42.8 - 234.7	136.3	46.5 - 226.0
	Total	176.5	-135.4 - 488.5	113.4	48.9 - 177.8	114.0	52.2 - 175.9
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
South Canterbury	Female	0.0	0.0 - 0.0	8.9	-9.0 - 26.7	8.6	-8.5 - 25.6
	Male	0.0	0.0 - 0.0	5.1	-6.9 - 17.1	5.4	-6.5 - 17.4
	Total	0.0	0.0 - 0.0	7.0	-3.9 - 17.9	7.0	-3.5 - 17.6
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
South Canterbury	Female	0.0	0.0 - 0.0	82.8	-21.0 - 186.5	77.4	-16.9 - 171.8
	Male	0.0	0.0 - 0.0	17.3	-29.3 - 63.9	16.0	-26.8 - 58.9
	Total	0.0	0.0 - 0.0	49.6	-6.4 - 105.6	46.4	-4.7 - 97.6
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
South Canterbury	Female	705.7	248.5 - 1162.9	280.3	235.7 - 324.9	300.3	253.6 - 347.0
	Male	0.0	0.0 - 0.0	301.5	257.6 - 345.4	296.9	254.1 - 339.8
	Total	386.4	152.1 - 620.7	285.7	254.6 - 316.8	293.5	262.0 - 325.1
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
South Canterbury	Female	343.1	-196.2 - 882.5	238.7	66.7 - 410.8	255.0	88.1 - 422.0
	Male	262.9	-190.0 - 715.9	251.0	87.8 - 414.1	254.1	99.7 - 408.5
	Total	299.2	-48.1 - 646.4	245.1	126.7 - 363.5	254.5	141.1 - 367.9
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
South Canterbury	Female	0.0	0.0 - 0.0	73.2	-26.4 - 172.9	71.0	-20.1 - 162.1
	Male	0.0	0.0 - 0.0	116.2	-3.5 - 236.0	107.5	0.6 - 214.4
	Total	0.0	0.0 - 0.0	95.6	17.1 - 174.2	90.0	19.2 - 160.8
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
South Canterbury	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	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
South Canterbury	Female	446.4	-161.5 - 1054.4	557.9	303.3 - 812.4	548.5	311.6 - 785.4
	Male	426.0	-154.4 - 1006.4	649.6	390.9 - 908.4	624.7	386.4 - 863.1
	Total	435.6	16.3 - 854.8	605.7	423.9 - 787.4	588.2	419.9 - 756.4
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
South Canterbury	Female	1202.8	953.2 - 1452.5	2275.8	2237.3 - 2314.4	2275.5	2237.3 - 2313.6
	Male	0.0	0.0 - 0.0	1667.9	1631.3 - 1704.6	1680.2	1643.7 - 1716.7
	Total	1482.7	1285.9 - 1679.5	2025.3	1998.5 - 2052.0	2030.4	2003.8 - 2056.9
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
South Canterbury	Female	1705.6	1400.6 - 2010.6	2839.6	2788.2 - 2891.0	2829.4	2778.6 - 2880.2
	Male	3668.9	3229.3 - 4108.6	2928.1	2872.7 - 2983.5	2933.4	2878.6 - 2988.1
	Total	3280.7	2983.7 - 3577.8	2883.8	2846.2 - 2921.5	2881.0	2843.8 - 2918.2
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

	South Canterbury DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Respiratory infections	367.2	Respiratory infections	510.3
	Gastroenteritis	360.8	Gastroenteritis	371.2
	ENT infections	299.6	Dental conditions	301.5
	Dental conditions	289.7	ENT infections	265.7
	Sexually-transmitted diseases	260.5	Cellulitis	243.5
Male	ENT infections	466.9	Respiratory infections	570.2
	Dental conditions	358.5	Gastroenteritis	355.3
	Respiratory infections	350.9	ENT infections	331.7
	Angina	306.6	Dental conditions	319.0
	Gastroenteritis	305.5	Angina	300.1
Total	ENT infections	387.0	Respiratory infections	541.0
	Respiratory infections	359.4	Gastroenteritis	363.7
	Gastroenteritis	332.8	Dental conditions	310.3
	Dental conditions	325.5	ENT infections	299.6
	Angina	260.6	Angina	258.9

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

	South Canterbury DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	ENT infections	494.9	Respiratory infections	742.2
	Respiratory infections	385.5	Dental conditions	441.6
	Dental conditions	366.3	Asthma	356.4
	Gastroenteritis	312.7	ENT infections	355.9
	Epilepsy	275.9	Angina	329.4
non-Māori	ENT infections	376.3	Respiratory infections	500.0
	Respiratory infections	362.2	Gastroenteritis	379.7
	Gastroenteritis	334.5	ENT infections	283.8
	Dental conditions	319.6	Dental conditions	271.8
	Angina	259.8	Angina	250.3

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

	South Canterbury DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Persons encountering health services for specific procedures and health care	4931.0	Persons encountering health services for specific procedures and health care	1802.8
	Angina	1872.8	Angina	1499.8
	Respiratory infections	1129.8	Respiratory infections	1132.4
	Disorders of lens	1039.2	CORD	968.0
	Ischaemic heart disease	899.3	Other forms of heart disease	955.6
Male	Persons encountering health services for specific procedures and health care	7978.1	Persons encountering health services for specific procedures and health care	2367.0
	Angina	2091.3	Angina	1956.7
	Ischaemic heart disease	1797.0	Respiratory infections	1721.7
	Respiratory infections	1543.0	Ischaemic heart disease	1550.1
	Other forms of heart disease	1220.8	Other forms of heart disease	1232.4
Total	Persons encountering health services for specific procedures and health care	6293.1	Persons encountering health services for specific procedures and health care	2059.9
	Angina	1975.5	Angina	1712.2
	Ischaemic heart disease	1306.7	Respiratory infections	1388.0
	Respiratory infections	1302.7	Ischaemic heart disease	1148.7
	Disorders of lens	997.6	Other forms of heart disease	1084.0

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

	South Canterbury DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Persons encountering health services for specific procedures and health care	3309.7	Persons encountering health services for specific procedures and health care	7454.5
	Congestive heart failure	3227.6	CORD	2912.0
	Diabetes	1827.0	Respiratory infections	2597.3
	Symptoms and signs involving the digestive system and abdomen	1778.9	Diabetes	2074.3
	Respiratory infections	1522.9	Angina	1943.8
non-Māori	Persons encountering health services for specific procedures and health care	6354.0	Persons encountering health services for specific procedures and health care	1705.0
	Angina	2005.4	Angina	1698.8
	Ischaemic heart disease	1312.8	Respiratory infections	1319.4
	Respiratory infections	1300.6	Ischaemic heart disease	1133.2
	Disorders of lens	1003.6	Other forms of heart disease	1069.6

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

	South Canterbury DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Dental conditions	633.6	Dental conditions	660.6
	Respiratory infections	631.4	Respiratory infections	622.0
	ENT infections	399.8	ENT infections	380.4
	Injuries to the elbow and forearm	275.1	Injuries to the elbow and forearm	337.0
	Symptoms and signs involving the digestive system and abdomen	273.4	Persons encountering health services for specific procedures and health care	311.2
Male	Respiratory infections	857.9	Dental conditions	687.9
	Dental conditions	823.9	Respiratory infections	671.2
	ENT infections	577.1	Injuries to the elbow and forearm	520.1
	Symptoms and signs involving the digestive system and abdomen	331.4	ENT infections	457.9
	Injuries to the head	327.6	Injuries to the head	360.8
Total	Respiratory infections	749.2	Dental conditions	674.6
	Dental conditions	732.5	Respiratory infections	647.1
	ENT infections	491.8	Injuries to the elbow and forearm	430.9
	Symptoms and signs involving the digestive system and abdomen	303.5	ENT infections	420.1
	Injuries to the elbow and forearm	297.8	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

	South Canterbury DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Dental conditions	792.4	Dental conditions	843.1
	ENT infections	624.5	Respiratory infections	644.5
	Respiratory infections	500.5	ENT infections	555.6
	Epilepsy	288.6	Injuries to the elbow and forearm	425.4
	Injuries to the head	245.8	Persons encountering health services for specific procedures and health care	399.2
non-Māori	Respiratory infections	777.1	Respiratory infections	648.9
	Dental conditions	722.6	Dental conditions	619.8
	ENT infections	474.0	Injuries to the elbow and forearm	432.1
	Symptoms and signs involving the digestive system and abdomen	311.5	ENT infections	377.3
	Injuries to the elbow and forearm	307.3	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

	South Canterbury DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Respiratory infections	2321.8	Persons encountering health services in other circumstances	4296.1
	Disorders related to length of gestation and fetal growth	1885.1	Respiratory infections	3688.1
	Gastro-oesophageal reflux disease	1563.2	Disorders related to length of gestation and fetal growth	1895.8
	Persons encountering health services in other circumstances	1149.4	Gastro-oesophageal reflux disease	1561.8
	ENT infections	1080.5	ENT infections	1005.2
Male	Respiratory infections	3016.9	Respiratory infections	4875.7
	ENT infections	2257.4	Persons encountering health services in other circumstances	4131.4
	Disorders related to length of gestation and fetal growth	2173.0	Disorders related to length of gestation and fetal growth	2016.8
	Gastro-oesophageal reflux disease	1476.8	Gastro-oesophageal reflux disease	1663.2
	Other congenital malformations of the digestive system	1350.2	ENT infections	1415.5
Total	Respiratory infections	2684.3	Respiratory infections	4295.1
	Disorders related to length of gestation and fetal growth	2035.2	Persons encountering health services in other circumstances	4212.0
	ENT infections	1694.2	Disorders related to length of gestation and fetal growth	1957.6
	Gastro-oesophageal reflux disease	1518.2	Gastro-oesophageal reflux disease	1613.6
	Other congenital malformations of the digestive system	1166.1	ENT infections	1214.9

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

	South Canterbury DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Respiratory infections	2222.2	Respiratory infections	5965.2
	ENT infections	1904.8	Persons encountering health services in other circumstances	2422.4
	Gastro-oesophageal reflux disease	1507.9	Disorders related to length of gestation and fetal growth	1684.5
	Disorders related to length of gestation and fetal growth	952.4	Gastro-oesophageal reflux disease	1311.2
	Dental conditions	952.4	ENT infections	1270.5
non-Māori	Respiratory infections	2758.6	Persons encountering health services in other circumstances	4825.9
	Disorders related to length of gestation and fetal growth	2209.5	Respiratory infections	3722.1
	ENT infections	1660.3	Disorders related to length of gestation and fetal growth	2051.4
	Gastro-oesophageal reflux disease	1519.8	Gastro-oesophageal reflux disease	1717.4
	Other congenital malformations of the digestive system	1238.8	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
South Canterbury	Female	0.0	0.0 - 0.0	19.7	1.2 - 38.1	23.3	2.1 - 44.4
	Male	0.0	0.0 - 0.0	30.5	7.0 - 54.0	33.1	8.9 - 57.2
	Total	126.4	-97.3 - 350.0	24.6	9.8 - 39.3	27.6	11.8 - 43.5
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
South Canterbury	Female	191.5	-208.5 - 591.6	101.5	42.2 - 160.7	102.4	45.0 - 159.8
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
South Canterbury	Male	0.0	0.0 - 0.0	91.2	49.8 - 132.6	88.9	48.6 - 129.1
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
South Canterbury	Female	0.0	0.0 - 0.0	0.0	0.0 - 0.0	0.0	0.0 - 0.0
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
South Canterbury	Female	0.0	0.0 - 0.0	64.7	28.2 - 101.1	63.1	27.8 - 98.4
	Male	0.0	0.0 - 0.0	86.5	40.7 - 132.4	84.3	40.7 - 128.0
	Total	0.0	0.0 - 0.0	74.7	45.7 - 103.8	72.9	45.0 - 100.8
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
South Canterbury	Female	0.0	0.0 - 0.0	53.3	12.1 - 94.4	51.3	12.0 - 90.7
	Male	0.0	0.0 - 0.0	57.4	10.6 - 104.1	59.9	10.5 - 109.2
	Total	0.0	0.0 - 0.0	55.2	24.0 - 86.4	55.5	23.9 - 87.2
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
South Canterbury	Female	0.0	0.0 - 0.0	123.4	113.2 - 133.5	121.4	111.4 - 131.3
	Male	0.0	0.0 - 0.0	269.6	252.9 - 286.4	294.9	277.4 - 312.4
	Total	0.0	0.0 - 0.0	189.4	179.9 - 198.9	200.8	191.0 - 210.5
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
South Canterbury	Female	0.0	0.0 - 0.0	271.6	255.1 - 288.1	285.0	268.2 - 301.7
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
South Canterbury	Male	0.0	0.0 - 0.0	693.1	666.1 - 720.0	679.0	652.7 - 705.3
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
South Canterbury	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
South Canterbury	Female	0.0	0.0 - 0.0	434.3	414.2 - 454.4	427.4	407.7 - 447.1
	Male	0.0	0.0 - 0.0	687.9	661.6 - 714.2	678.5	652.8 - 704.3
	Total	0.0	0.0 - 0.0	549.7	533.5 - 566.0	541.6	525.7 - 557.6
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
South Canterbury	Female	0.0	0.0 - 0.0	144.3	132.9 - 155.7	142.0	130.8 - 153.2
	Male	0.0	0.0 - 0.0	158.4	147.1 - 169.7	156.1	144.9 - 167.2
	Total	0.0	0.0 - 0.0	148.9	140.9 - 156.8	146.5	138.7 - 154.3
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