

Centre for
Public Health
Research



Health Needs Assessment

Tairawhiti District Health Board

For the Ministry of Health

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Health Needs Assessment

Tairawhiti District Health Board

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EXECUTIVE SUMMARY

The report identifies the unmet health and healthcare needs of the Tairāwhiti 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 Tairāwhiti 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, Tairāwhiti DHB had a population of 45,930 which is predicted to increase to 46,610 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 Tairāwhiti DHB is more than three times that of New Zealand as a whole. The Māori population in Tairāwhiti DHB is much younger than the non-Māori population and is dominated by young people. This trend is expected to continue over the period to 2026. The non-Māori population is predicted to both age and decline in numbers over the same period.

In Tairāwhiti DHB, the distribution of communities across the NZDep06 deprivation scale is heavily weighted towards the higher deprivation deciles. Whilst this is true for both Māori and non-Māori, Māori are much more dominant in the highest deprivation deciles, with just under 50 percent of the population in decile 10 (most deprived).

Health status

Avoidable mortality and hospitalisations

There was no statistically significant difference between the Māori and non-Māori age-standardised rates for avoidable mortality in the Tairāwhiti DHB.

Ischaemic heart disease, lung cancer and suicide and self-inflicted injuries were three of the leading causes of avoidable mortality for both Māori and non-Māori in the Tairāwhiti DHB. In addition, diabetes and COPD were other major causes of mortality for Māori, as were colorectal cancer and cerebrovascular diseases for non-Māori.

The total Māori age standardised rate for avoidable hospitalisations was statistically significantly higher than the non-Māori rate. In addition, the overall female and male rates in Tairāwhiti were statistically significantly higher than the comparable New Zealand rates.

For Māori and non-Māori in the Tairāwhiti DHB, major causes of avoidable hospitalisations were: respiratory infections, dental conditions, ENT infections, gastroenteritis.

While there was no statistically significant difference between the Māori and non-Māori rates of unintentional injury hospitalisation, the overall male and total rates in Tairāwhiti DHB were higher than the comparable national rates.

Child and youth health

The leading causes of hospitalisations for Māori and non-Māori children aged 0-4 years were broadly similar: respiratory infections, gastro-oesophageal reflux disease, disorders related to length of gestation and fetal growth, and ENT infections.

Māori children also had a high rate for dental conditions, while for non-Māori, haemorrhagic and haematological disorders of fetus and newborn was also a leading cause of hospitalisation.

For both Māori and non-Māori children aged 5-14 years, major causes of hospitalisations were: dental conditions, respiratory infections, injuries to the elbow and forearm, and ENT infections.

Older people

Ischaemic heart disease, diabetes, stroke, COPD, and lung cancer for the leading causes of mortality for Māori aged 65+ years in the Tairāwhiti DHB. For non-Māori, the leading causes were also ischaemic heart disease, stroke, lung cancer, and COPD, but also colorectal cancer.

The leading causes of hospitalisation for Māori aged 65+ years included respiratory infections, congestive heart failure, diabetes, and angina. For non-Māori, the major causes of death were angina, together with respiratory infections, skin cancer, and other forms of heart disease.

Other health conditions

The ischaemic heart disease mortality rate for Māori was statistically significantly higher than the non-Māori rate. Māori women in the Tairāwhiti DHB also had a statistically significantly higher hospital admission rate for ischaemic heart disease than non-Māori women in the same DHB.

The COPD hospitalisation rate for Māori was statistically significantly higher than the non-Māori rate.

The hospital admission rate for melanoma was statistically significantly lower for Māori than non-Māori.

The suicide mortality rate was statistically significantly higher for Māori youths 15-24 years including young Māori men compared to their non-Māori counterparts.

The rate of hospital admissions due to diabetes was statistically significantly higher for Māori than non-Māori.

Māori children (0-14 years) hospitalised for asthma had a statistically significantly higher rate compared to non-Māori children.

Health service utilisation

In the Tairāwhiti DHB, 73.7 percent of Māori children had received all specified immunisation vaccines by the age of two, compared to 72.0 percent of all Māori children in New Zealand. For non-Māori children the coverage was 84.9 percent compared to the national average of 79.4 percent.

In Tairāwhiti DHB, 49.4 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. The non-Māori rate was 58.7 percent.

Of Māori women in the Tairāwhiti DHB aged 50-64 years, 50.8 percent had a mammogram to check for early signs of breast cancer in the past two years, compared to a non-Māori rate of 66.1 percent.

Of Māori women aged 20 to 69 years in the Tairāwhiti DHB who had a primary health care provider, 64.3 percent had a cervical smear in the past three years, which was higher than the overall national rate for Māori women (54.4%). The rate for non-Māori women (77.5%) was also higher than the comparable national rate (75.5%).

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 Tairāwhiti 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, 10th 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

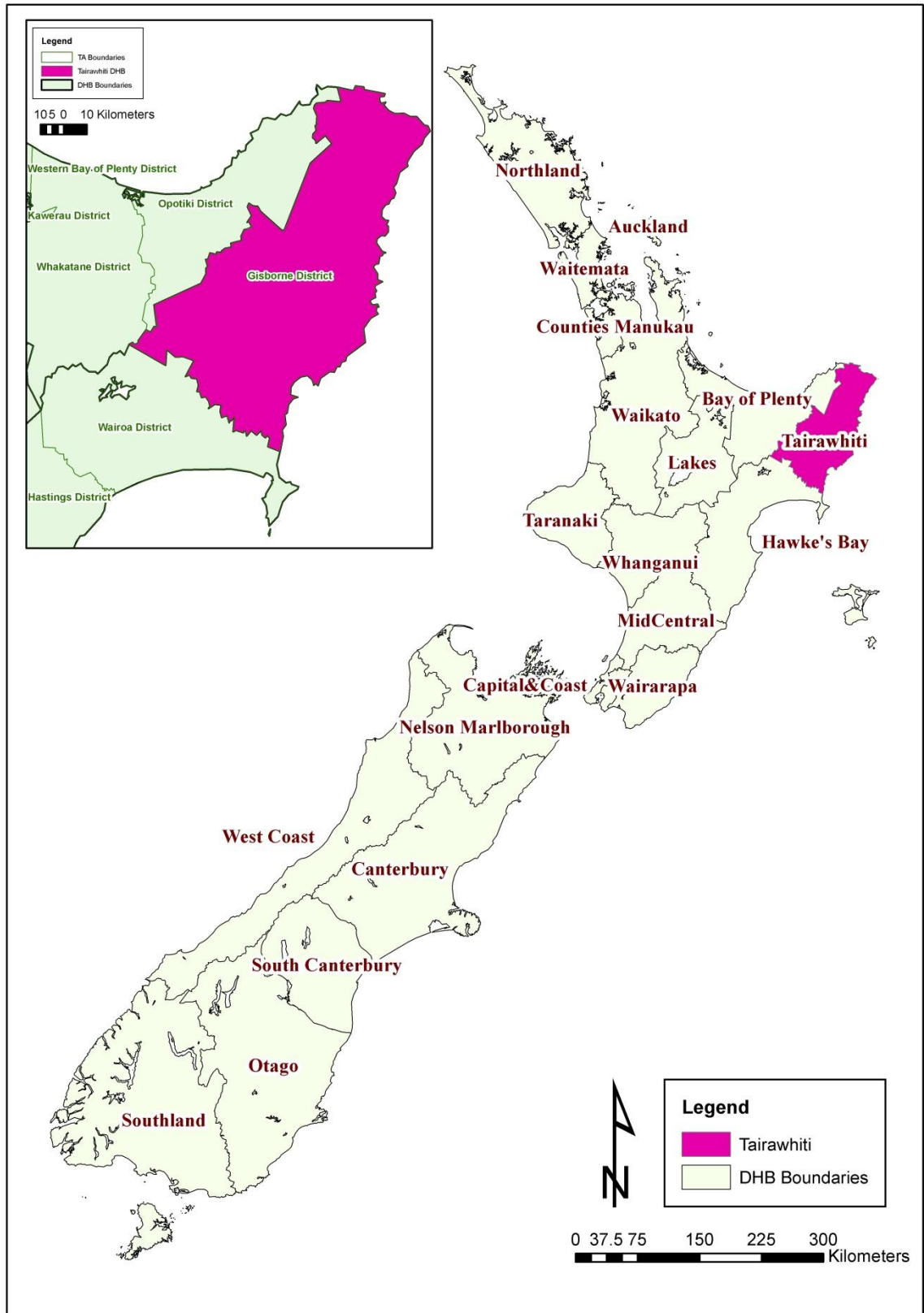
The dark blue shows that the ASR for the total Māori population in the DHB (919.1 per 100,000) is statistically significantly higher than the ASR for the total non-Māori population in the DHB (622.3 per 100,000)

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

Tairāwhiti DHB had a population of 45,930 at the last (2006) census, making up approximately 1.1 percent of the total New Zealand population (4,184,580 at the last census). This population is projected to rise to 46,610 by 2026, an increase of 1.5 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 Tairāwhiti DHB is more than three times that of New Zealand as a whole, (46.9% compared to 14.6%). This represents 3.4 percent of the New Zealand Māori population (2006 Census).

1.2 Population Distribution by Age and Gender

The majority of the Tairāwhiti DHB population (62.3%) are of working age (15-64 years), this makes up a lower proportion of the population compared to New Zealand as a whole (66.5%), (Table 1.1). There are more young people (aged 0-14 years) and fewer elderly (aged 65+ years) in Tairāwhiti when compared to the New Zealand population. The Tairāwhiti DHB has a large (young) base population which peaks at 10-15 years. A much smaller, secondary peak can be seen at 45-49 years, (Figure 1).

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
Tairāwhiti	0-14	27.0	24.7	25.8	23.5	21.2	22.3
	15-64	62.3	62.3	62.3	57.6	58.4	58.0
	65+	10.7	13.1	11.9	18.9	20.4	19.6
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
Tairāwhiti	0-14	6050	5800	11860	5370	5040	10410	-11.2	-13.1	-12.2
	15-64	13940	14650	28600	13170	13890	27050	-5.5	-5.2	-5.4
	65+	2400	3070	5470	4310	4850	9150	79.6	58.0	67.3
	Total	22390	23520	45930	22850	23780	46610	2.1	1.1	1.5
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

It is projected that by 2026, the proportion of the population in the 65+ age group will have increased by 67.3 percent in Tairāwhiti DHB, much less than the 84.5 percent predicted nationally. Populations of both young people and those of working age are predicted to decline, (by 12.2% and 5.4% respectively). Trends for the rest of New Zealand are for modest increases in these two age groups (of 4.6% and 12.0% respectively). The population is predicted become more evenly distributed by 2026. Whilst the peak population at 10-14 years remains, two further peaks are evident at 35-39 years and 60-69 years.

Figure 1: Population, age and gender, 2006 Census

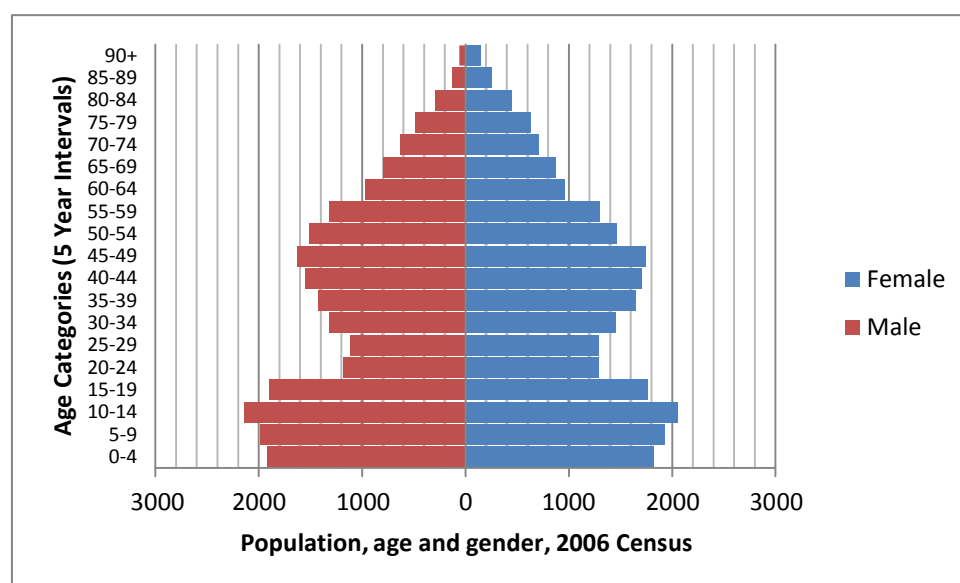
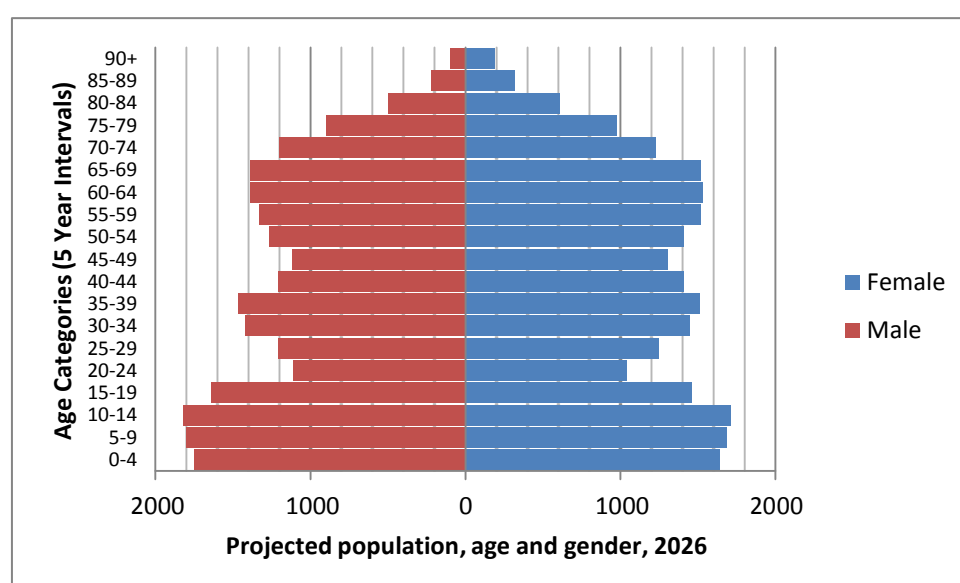


Figure 2: Projected population, age and gender, 2026



1.3 Population Distribution by Ethnicity

The Tairāwhiti Māori population is younger than the non-Māori population. It is dominated by young people, with peak population occurring at 10-14 years. By comparison the non-Māori population peaks at 45-49 years, (a smaller, secondary, peak occurs at 10-14 years).

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

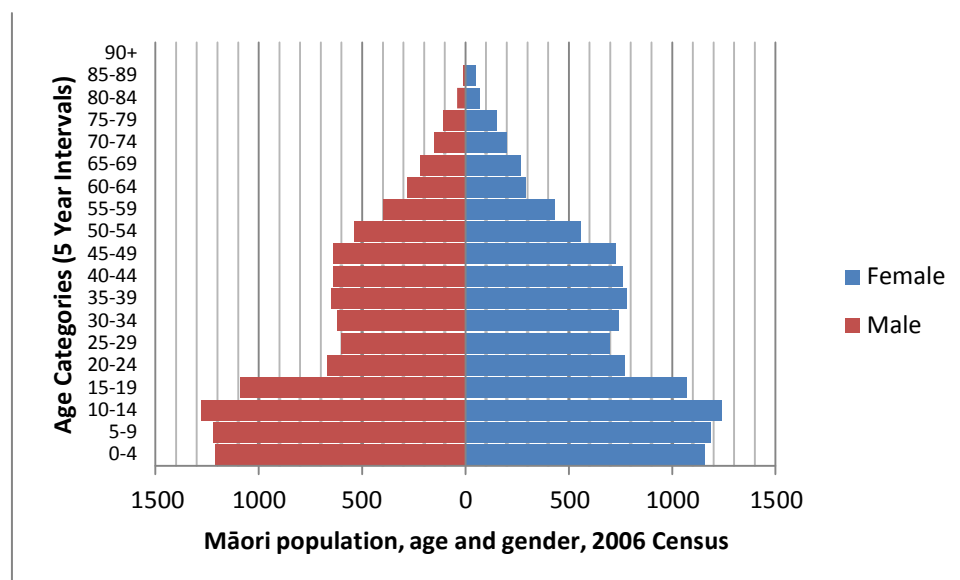
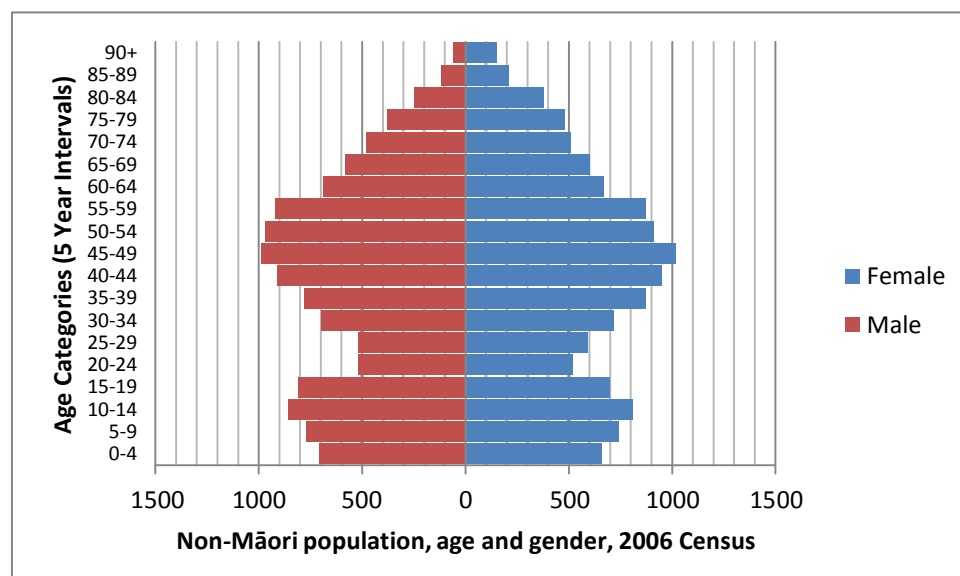


Figure 4: Non-Māori population, age and gender, 2006 Census



Over the period 2006-2026, the young Māori population (aged 0-14 years) is predicted to decrease by 1.9 percent; this is a far smaller decrease than that predicted for the non-Māori population (of 28.8%). Whilst a further decrease amongst those of working age (15-64 years) is seen in the non-Māori population (of 17.5%), a modest increase is seen amongst Māori (9.1%) in this age category. The elderly population is predicted to increase by 118.3 percent for Māori and 52.0 percent for non-

Māori. Overall the Māori population is predicted to increase by 11.7 percent, whilst the non-Māori population is predicted to decrease by 7.6 percent.

Whilst young adults are predicted to continue to dominate the Māori population over the period 2006-2026, it should become more evenly distributed. Over the same period the non-Māori population ages, with peak population increasing to 60-69 years and additional, secondary, peaks at 20-24 and 35-39 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
Tairāwhiti	0-14	3710	3590	7310	3680	3500	7170	-0.8	-2.5	-1.9
	15-64	6130	6830	12970	6800	7360	14150	10.9	7.8	9.1
	65+	530	740	1260	1210	1540	2750	128.3	108.1	118.3
	Total	10370	11160	21540	11690	12400	24070	12.7	11.1	11.7
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
Tairāwhiti	0-14	2340	2210	4550	1690	1540	3240	-27.8	-30.3	-28.8
	15-64	7810	7820	15630	6370	6530	12900	-18.4	-16.5	-17.5
	65+	1870	2330	4210	3100	3310	6400	65.8	42.1	52.0
	Total	12020	12360	24390	11160	11380	22540	-7.2	-7.9	-7.6
New Zealand	0-14	344480	328550	673000	344780	325920	670690	0.1	-0.8	-0.3
	15-64	1180810	1220510	2401330	1308470	1327170	2635660	10.8	8.7	9.8
	65+	217250	268680	485910	409450	465470	874930	88.5	73.2	80.1
	Total	1742540	1817740	3560240	2062700	2118560	4181280	18.4	16.5	17.4

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

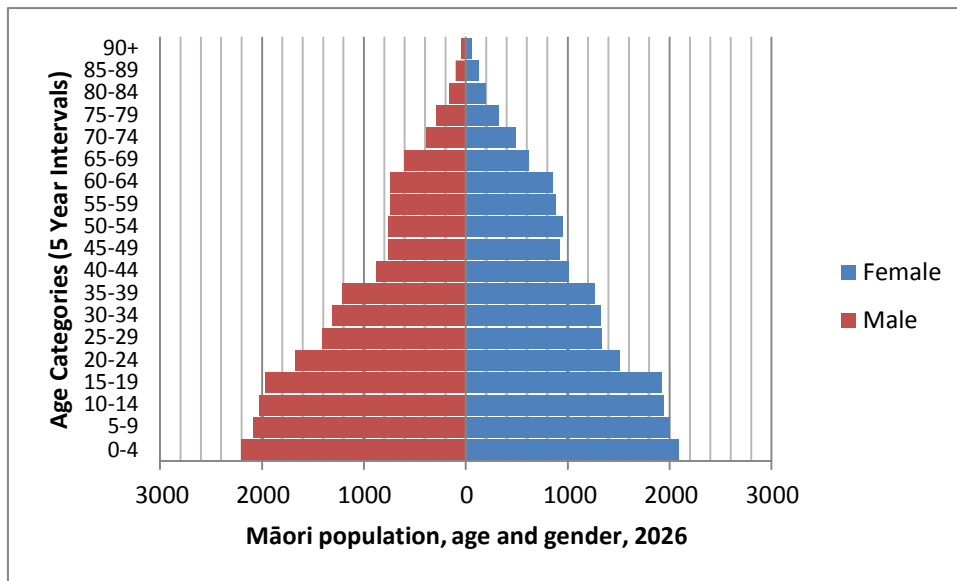
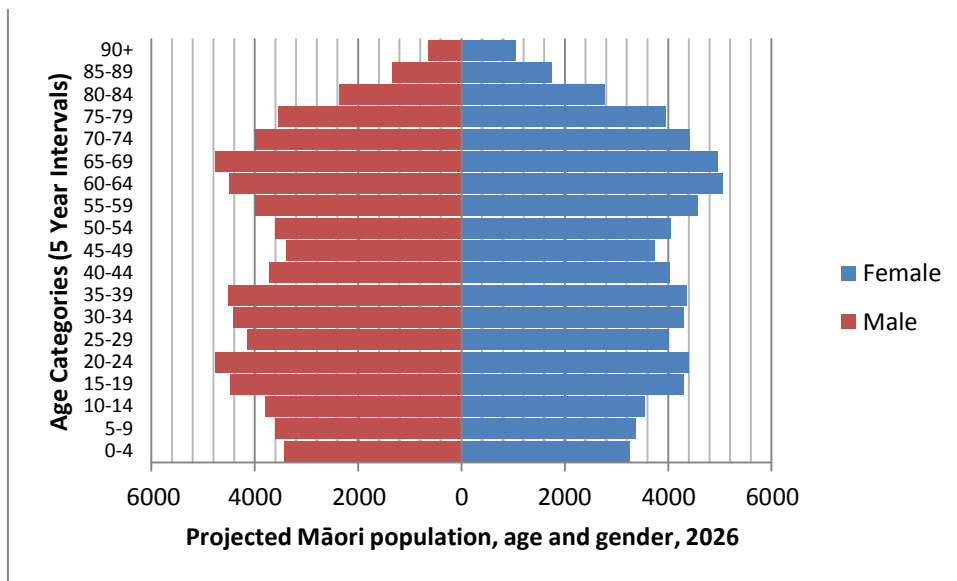


Figure 6: Projected non-Māori population, age and gender, 2026



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 Tairāwhiti DHB the distribution of communities across the NZDep06 deprivation scale is strongly weighted towards deciles 9 and 10 (most deprived). Approximately 50 percent of Tairāwhiti communities are classed in these two deciles. Whilst the proportion of the non-Māori population increases towards the higher deprivation deciles, trends in distribution are weighted far more heavily for Māori. A little less than 50 percent of the Māori population is classed in decile 10 (most deprived). Distribution of Māori and non-Māori is much less evenly spread across the deprivation deciles than in New Zealand as a whole. In the case of non-Māori the trend towards the higher deprivation deciles is the opposite of what is seen nationally.

Figure 7: Distribution of Tairāwhiti DHB Area Units across NZDep06 Decile Groups, 2006 Census

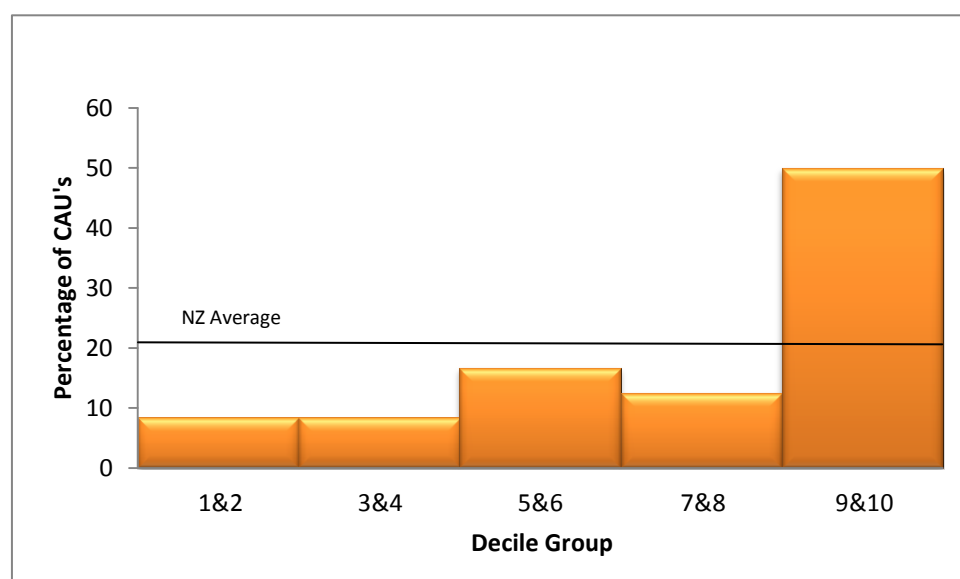


Figure 8: Tairawhiti DHB population, ethnicity and NZDep06 Decile

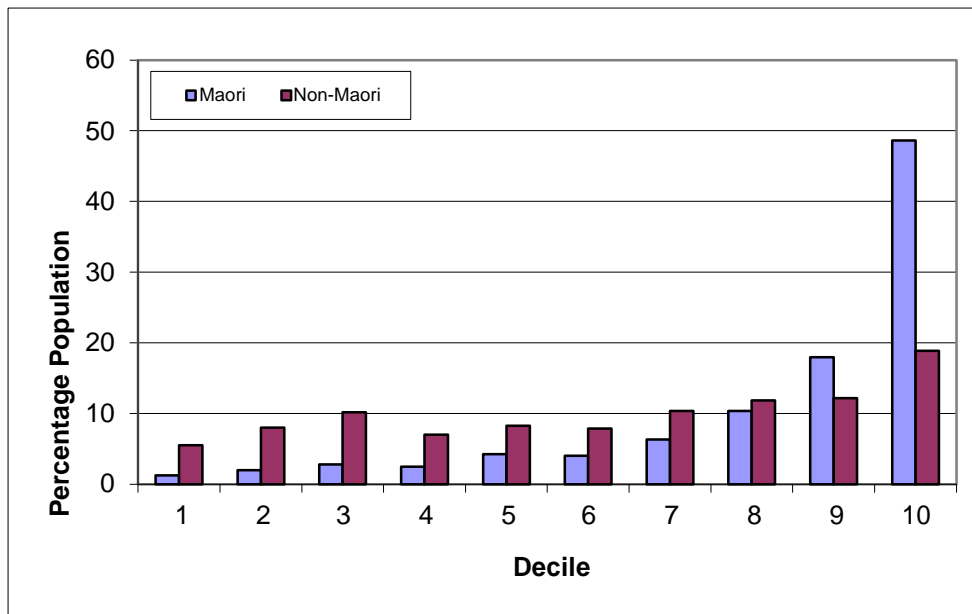
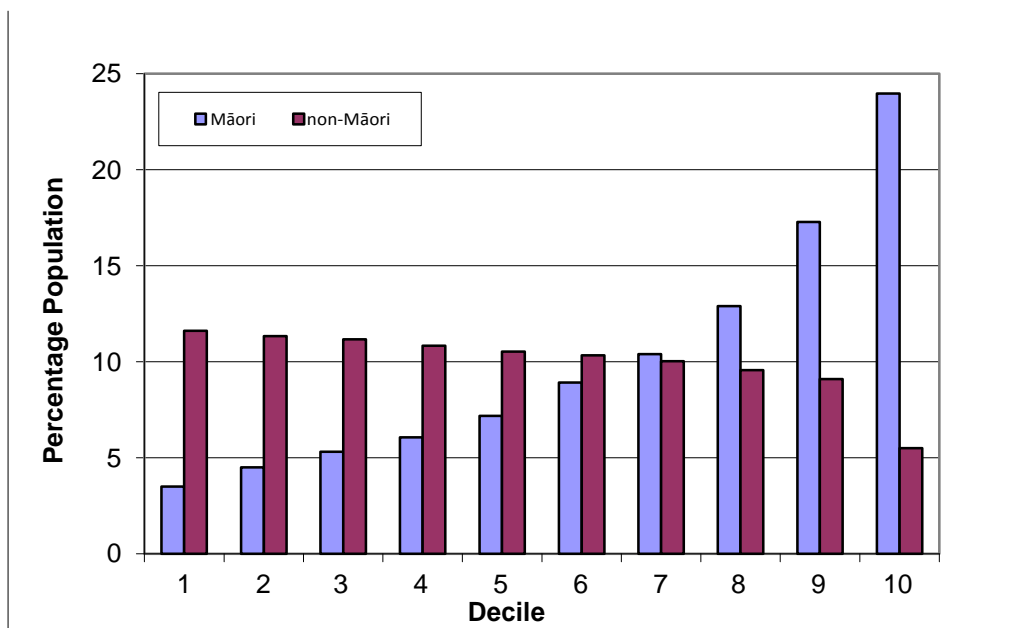


Figure 9: New Zealand population, ethnicity and NZDep06 Decile



2.2 Education

The population of Tairawhiti DHB has a much smaller proportion of university graduates (degree level and above) (7.9%), compared to the New Zealand population (14.2%). It also has a higher rate of people with no qualifications (29.1% compared to 22.4% for New Zealand).

2.3 Income

The Tairāwhiti DHB population has a much lower proportion of people earning over \$30,000 in personal income; 29.1 percent compared to 37.3 percent for New Zealand. This represents a much 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 Tairāwhiti DHB population is less than that for New Zealand (92.8% compared to 94.9%). In terms of type of employment, there is a slightly lower proportion of professionals and managers in the Tairāwhiti (34.4% compared to 36.0% nationally) and a slightly higher proportion of machine operators and labourers (18.7% compared to 16.8% nationally).

2.5 Housing Tenure

A higher proportion of the Tairāwhiti DHB population own or part own their own homes, or hold them in family trusts, than nationally and 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
Tairāwhiti	Number	22,113	11,205	5,424	2,397	41,142
	Percentage	53.7	27.2	13.2	5.8	100.0
New Zealand	Number	743955	451965	167925	90333	1454178
	Percentage	51.2	31.1	11.6	6.2	100.0

2.6 Communications and Transport

Access to telecommunications in Tairāwhiti DHB is lower than that seen nationally. This includes for cell phones: (61.5% compared to 71.1% nationally), telephone (82.0% compared to 87.8% nationally) and the internet (44.4% compared to 58.0% nationally). Overall 4.2 percent of Tairāwhiti DHB residents have no access to telecommunications compared to 2.0 percent of New Zealanders.

Access to a motor vehicle is lower in Tairāwhiti DHB compared to national levels. 9.7 percent of the Tairāwhiti DHB population have no access to a motor vehicle compared to 7.7 percent nationally.

3 HEALTH STATUS

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

Key points

- There was no statistically significant difference between the Māori and non-Māori age-standardised rates for avoidable mortality in the Tairāwhiti DHB.
- Ischaemic heart disease, lung cancer and suicide and self-inflicted injuries are the leading causes of avoidable mortality for both Māori and non-Māori in the Tairāwhiti DHB. In addition, diabetes and COPD were other major causes of mortality for Māori, as were colorectal cancer and cerebrovascular diseases for non-Māori.
- The total Māori age standardised rate for avoidable hospitalisations was statistically significantly higher than the non-Māori rate. In addition, the overall female and male rates in Tairāwhiti were statistically significantly higher than the comparable New Zealand rates.
- For Māori and non-Māori in the Tairāwhiti DHB, major causes of avoidable hospitalisations were: respiratory infections, dental conditions, ENT infections, gastroenteritis.
- While there was no statistically significant difference between the Māori and non-Māori rates of unintentional injury hospitalisation, the overall male and total rates in Tairāwhiti DHB were higher than the comparable national rates.
- The leading causes of hospitalisations for Māori and non-Māori children aged 0-4 years were broadly similar: respiratory infections, gastro-oesophageal reflux disease, disorders related to length of gestation and fetal growth, and ENT infections.
- Māori children also had a high rate for dental conditions, while for non-Māori, haemorrhagic and haematological disorders of fetus and newborn was also a leading cause of hospitalisation.
- For both Māori and non-Māori children aged 5-14 years, major causes of hospitalisations were: dental conditions, respiratory infections, injuries to the elbow and forearm, and ENT infections.
- Ischaemic heart disease, diabetes, stroke, COPD, and lung cancer for the leading causes of mortality for Māori aged 65+ years in the Tairāwhiti DHB. For non-Māori, the leading causes were also ischaemic heart disease, stroke, lung cancer, and COPD, but also colorectal cancer.
- The leading causes of hospitalisation for Māori aged 65+ years included respiratory infections, congestive heart failure, diabetes, and angina. For non-Māori, the major causes of death were angina, together with respiratory infections, skin cancer, and other forms of heart disease.
- The ischaemic heart disease mortality rate for Māori was statistically significantly higher than the non-Māori rate. Māori women in the Tairāwhiti DHB also had a statistically significantly higher hospital admission rate for ischaemic heart disease than non-Māori women in the same DHB.
- The COPD hospitalisation rate for Māori was statistically significantly higher than the non-Māori rate as well as between men in the Tairāwhiti DHB and the national rate.

- The cancer specific rate for prostate cancer hospitalisation was statistically significantly higher for men in the Tairāwhiti DHB compared to that observed nationally.
- The hospital admission rate for melanoma was statistically significantly lower for Māori than non-Māori.
- The suicide mortality rate was statistically significantly higher for Māori youths 15-24 years including young Māori men compared to their non-Māori counterparts. The suicide mortality rate in the Tairāwhiti DHB was also statistically significantly higher than the national rate.
- The unintentional injury hospitalisation rate for youth 15-24 years in the Tairāwhiti DHB was statistically significantly higher than the rate for youth in New Zealand.
- The rate of hospital admissions due to diabetes was statistically significantly higher for Māori than non-Māori.
- Māori children (0-14 years) hospitalised for asthma had a statistically significantly higher rate compared to non-Māori children.

3.1 Avoidable Mortality

There was no statistically significant difference between the Māori and non-Māori age-standardised rates for avoidable mortality in the Tairāwhiti DHB (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	
Tairāwhiti	Female	270.9	8.1	- 533.8	72.0	-56.7	- 200.8	148.6	17.3	- 279.9
	Male	406.8	66.4	- 747.3	97.9	-22.5	- 218.4	211.7	58.1	- 365.3
	Total	335.0	122.9	- 547.1	84.7	-2.6	- 171.9	179.3	78.9	- 279.8
New Zealand	Female	214.6	168.7	- 260.5	74.2	63.5	- 84.8	88.9	78.2	- 99.6
	Male	308.9	251.4	- 366.5	122.9	109.1	- 136.7	142.4	128.6	- 156.1
	Total	259.8	223.3	- 296.3	98.1	89.4	- 106.8	115.1	106.4	- 123.8

3.2 Leading Causes of Avoidable Mortality

Ischaemic heart disease, lung cancer and suicide and self-inflicted injuries were the leading causes of avoidable mortality for both Māori and non-Māori in the Tairāwhiti DHB (Table 3.2). In addition, diabetes and COPD were other major causes of mortality for Māori, as were colorectal cancer and cerebrovascular diseases for non-Māori.

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

	Tairāwhiti DHB		New Zealand	
	Condition	Rank	Condition	Rank
Māori	Ischaemic heart disease	1	Ischaemic heart disease	1
	Diabetes	2	Lung cancer	2
	Lung cancer	3	Diabetes	3
	Suicide and self-inflicted injuries	4	Motor vehicle accidents	4
	COPD	5	Suicide and self-inflicted injuries	5
non-Māori	Ischaemic heart disease	1	Ischaemic heart disease	1
	Suicide and self-inflicted injuries	2	Suicide and self-inflicted injuries	2
	Lung cancer	3	Lung cancer	3
	Colorectal cancer	4	Motor vehicle accidents	4
	Cerebrovascular diseases	5	Colorectal cancer	5

Note: COPD=chronic obstructive pulmonary disease

For both genders, ischaemic heart disease, diabetes, and lung cancer were major causes of avoidable mortality in the Tairāwhiti DHB (Table 3.3). Breast cancer and cerebrovascular diseases were also leading causes of death for females, as were suicide and self-inflicted injuries and birth defects for males.

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

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

3.3 Avoidable Hospitalisations

The total Māori age standardised rate for avoidable hospitalisations was statistically significantly higher than the non-Māori rate (Table 3.4). In addition, the overall female and male rates in Tairāwhiti were statistically significantly higher than the comparable New Zealand rates.

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	
Tairāwhiti	Female	5784.9	4418.4	- 7151.3	3425.9	2157.6	- 4694.2	4558.4	3638.2	- 5478.6
	Male	6084.1	4651.8	- 7516.3	3854.9	2561.9	- 5147.8	4910.1	3962.0	- 5858.1
	Total	5938.9	4949.3	- 6928.5	3644.7	2738.3	- 4551.2	4738.3	4077.2	- 5399.4
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

For Māori and non-Māori in the Tairāwhiti DHB, major causes of avoidable hospitalisations were: respiratory infections, dental conditions, ENT infections, gastroenteritis (Table 3.5). Asthma was also a major cause for Māori as was angina for non-Māori.

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

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

Note: ENT infections= ear, nose and throat infections

Females and males experienced similar major causes of avoidable hospitalisations. These were: respiratory infections, dental conditions, ENT infections, gastroenteritis (Table 3.6). A further major cause for females was cellulitis and for males obstructed hernia.

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

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

Note: ENT infections= ear, nose and throat infections

3.5 Unintentional Injury Mortality

There was no statistically significant difference between the Māori and non-Māori age-standardised rates for unintentional injury mortality in the Tairāwhiti DHB (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	
Tairāwhiti	Female	14.0	-50.7	- 78.7	4.1	-12.6	- 20.8	9.6	-25.8	- 45.0
	Male	32.2	-75.4	- 139.8	8.0	-47.3	- 63.3	19.1	-39.2	- 77.3
	Total	22.8	-38.5	- 84.1	6.2	-22.9	- 35.3	14.3	-19.4	- 47.9
New Zealand	Female	21.2	6.0	- 36.3	7.8	3.8	- 11.8	10.4	6.0	- 14.7
	Male	49.1	25.2	- 73.0	21.6	14.8	- 28.5	26.1	19.1	- 33.0
	Total	34.5	20.7	- 48.4	14.6	10.7	- 18.6	18.1	14.0	- 22.2

3.6 Unintentional Injury Hospitalisations

While there was no statistically significant difference between the Māori and non-Māori rates of unintentional injury hospitalisation, the overall male and total rates in Tairāwhiti DHB were higher than the comparable national rates (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	
Tairāwhiti	Female	1740.2	984.0	- 2496.4	1512.4	721.2	- 2303.7	1662.7	1116.9	- 2208.5
	Male	3501.5	2370.8	- 4632.2	3113.1	1957.5	- 4268.7	3284.4	2493.9	- 4075.0
	Total	2570.8	1906.8	- 3234.7	2318.7	1617.2	- 3020.3	2450.9	1976.1	- 2925.7
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

The leading causes of hospitalisations for Māori and non-Māori children aged 0-4 years were broadly similar: respiratory infections, gastro-oesophageal reflux disease, disorders related to length of gestation and fetal growth, and ENT infections (Table 3.9). Māori children also had a high rate for dental conditions, while for non-Māori, haemorrhagic and haematological disorders of fetus and newborn was also a leading cause of hospitalisation.

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

	Tairāwhiti DHB		New Zealand	
	Condition	Rank	Condition	Rank
Māori	Respiratory infections	1	Respiratory infections	1
	Dental conditions	2	*Persons encountering health services in other circumstances	2
	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
	ENT infections	5	ENT infections	5
non-Māori	Respiratory infections	1	Persons encountering health services in other circumstances	1
	Gastro-oesophageal reflux disease	2	Respiratory infections	2
	Disorders related to length of gestation and fetal growth	3	Disorders related to length of gestation and fetal growth	3
	ENT infections	4	Gastro-oesophageal reflux disease	4
	Haemorrhagic and haematological disorders of fetus and newborn	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

Female and male children aged 0-4 years have similar leading causes for hospitalisation (Table 3.10).

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

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

For both Māori and non-Māori children aged 5-14 years, major causes of hospitalisations were: dental conditions, respiratory infections, injuries to the elbow and forearm, and ENT infections (Table 3.11).

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

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

Note: ENT infections= ear, nose and throat infections

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

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

Leading causes of hospitalisations for children aged 5-14 years in the Tairāwhiti DHB were: dental conditions, respiratory infections, injuries to the elbow and forearm, and ENT infections (Table 3.12).

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

	Tairāwhiti DHB		New Zealand	
	Condition	Rank	Condition	Rank
Female	Dental conditions	1	Dental conditions	1
	Respiratory infections	2	Respiratory infections	2
	Injuries to the elbow and forearm	3	ENT infections	3
	ENT infections	4	Injuries to the elbow and forearm	4
	Other diseases of intestines	5	Persons encountering health services for specific procedures and health care	5
Male	Dental conditions	1	Dental conditions	1
	Respiratory infections	2	Respiratory infections	2
	Injuries to the elbow and forearm	3	Injuries to the elbow and forearm	3
	*Persons encountering health services for specific procedures and health care	4	ENT infections	4
	ENT infections	5	Injuries to the head	5
Total	Dental conditions	1	Dental conditions	1
	Respiratory infections	2	Respiratory infections	2
	Injuries to the elbow and forearm	3	Injuries to the elbow and forearm	3
	ENT infections	4	ENT infections	4
	Persons encountering health services for specific procedures and health care	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, diabetes, stroke, COPD, and lung cancer for the leading causes of mortality for Māori aged 65+ years in the Tairāwhiti DHB (Table 3.13). For non-Māori, the leading causes were also ischaemic heart disease, stroke, lung cancer, and COPD, but also colorectal cancer.

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

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

Note: COPD=chronic obstructive pulmonary disease

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

Ischaemic heart disease, stroke, lung cancer, and diabetes were leading causes of mortality for males and females aged 65+ years (Table 3.14). In addition, colorectal cancer was also a major cause of death for females, as was COPD for males.

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

	Tairāwhiti DHB		New Zealand	
	Condition	Rank	Condition	Rank
Female	Ischaemic heart disease	1	Ischaemic heart disease	1
	Stroke	2	Stroke	2
	Lung cancer	3	COPD	3
	Diabetes	4	Lung cancer	4
	Colorectal cancer	5	Colorectal cancer	5
Male	Ischaemic heart disease	1	Ischaemic heart disease	1
	Lung cancer	2	Lung cancer	2
	COPD	3	COPD	3
	Stroke	4	Stroke	4
	Diabetes	5	Colorectal cancer	5
Total	Ischaemic heart disease	1	Ischaemic heart disease	1
	Stroke	2	Stroke	2
	Lung cancer	3	COPD	3
	COPD	4	Lung cancer	4
	Colorectal cancer	5	Colorectal cancer	5

Note: COPD=chronic obstructive pulmonary disease

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

The leading causes of hospitalisation for Māori aged 65+ years included respiratory infections, congestive heart failure, diabetes, and angina (Table 3.15). For non-Māori, the major causes of death were angina, together with respiratory infections, skin cancer, and other forms of heart disease.

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

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

Note: COPD=chronic obstructive pulmonary disease

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

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

Angina, respiratory infections, and persons encountering health services for specific procedures and health care were leading causes of hospitalisation for males and females aged 65+ years in Tairāwhiti DHB (Table 3.16). Disorders of lens was also a major cause of hospitalisation for females, as was ischaemic heart disease for males.

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

	Tairāwhiti DHB		New Zealand	
	Condition	Rank	Condition	Rank
Female	Angina	1	Persons encountering health services for specific procedures and health care	1
	*Persons encountering health services for specific procedures and health care	2	Angina	2
	Respiratory infections	3	Respiratory infections	3
	Other forms of heart disease	4	COPD	4
	Disorders of lens	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
	Respiratory infections	2	Angina	2
	Angina	3	Respiratory infections	3
	Complications of surgical and medical care, not elsewhere classified	4	Ischaemic heart disease	4
	Ischaemic 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
	Respiratory infections	3	Respiratory infections	3
	Complications of surgical and medical care, not elsewhere classified	4	Ischaemic heart disease	4
	Other forms of heart disease	5	Other forms of heart disease	5

Note: COPD=chronic obstructive pulmonary disease

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

3.9 Other health conditions

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

3.9.1 Chronic conditions

The ischaemic heart disease mortality rate for Māori was statistically significantly higher than the non-Māori rate (Appendix 2: Table 2.1.3). Māori women in the Tairāwhiti DHB also had a statistically significantly higher hospital admission rate for ischaemic heart disease than non-Māori women in the same DHB (Appendix 3: Table 3.1.3).

The COPD hospitalisation rate for Māori was statistically significantly higher than the non-Māori rate as well as between men in the Tairāwhiti DHB and the national rate (Appendix 3: Table 3.1.27).

3.9.2 Cancer

The cancer specific rate for prostate cancer hospitalisation was statistically significantly higher for men in the Tairāwhiti DHB compared to that observed nationally (Appendix 3: Table 3.1.8).

The hospital admission rate for melanoma was statistically significantly lower for Māori than non-Māori (Appendix 3: Table 3.1.11).

3.9.3 Other conditions

The suicide mortality rate was statistically significantly higher for Māori youths 15-24 years including young Māori men compared to their non-Māori counterparts (Appendix 2: Table 2.1.16). The suicide mortality rate in the Tairāwhiti DHB was also statistically significantly higher than the national rate.

The unintentional injury hospitalisation rate for youth 15-24 years in the Tairāwhiti DHB was statistically significantly higher than the rate for youth in New Zealand (Appendix 3: Table 3.1.14).

The rate of hospital admissions due to diabetes was statistically significantly higher for Māori than non-Māori (Appendix 3: Table 3.1.24).

Māori children under 15 years hospitalised for asthma had a statistically significantly higher rate compared to non-Māori children (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 Tairāwhiti DHB compared to the national experience.

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

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

Key points

- In the Tairāwhiti DHB, 73.7 percent of Māori children had received all specified immunisation vaccines by the age of two, compared to 72.0 percent of all Māori children in New Zealand. For non-Māori children the coverage was 84.9 percent compared to the national average of 79.4 percent.
- In Tairāwhiti DHB, 49.4 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. The non-Māori rate was 58.7 percent.
- Of Māori women in the Tairāwhiti DHB aged 50-64 years, 50.8 percent had a mammogram to check for early signs of breast cancer in the past two years, compared to a non-Māori rate of 66.1 percent.
- Of Māori women aged 20 to 69 years in the Tairāwhiti DHB who had a primary health care provider, 64.3 percent had a cervical smear in the past three years, which was higher than the overall national rate for Māori women (54.4%). The rate for non-Māori women (77.5%) was also higher than the comparable national rate (75.5%).

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 Tairāwhiti DHB, 73.7 percent of Māori children had received all specified immunisation vaccines by the age of two, compared to 72.0 percent of all Māori children in New Zealand (Table 4.1). For non-Māori children the coverage was 84.9 percent compared to the national average of 79.4 percent.

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

DHB	Māori	non-Māori	Total
Tairāwhiti DHB	73.7%	84.9%	78.3%
New Zealand	72.0%	79.4%	77.7%

4.2 Influenza Vaccine Coverage at 65+ Years

In the Tairāwhiti DHB, 49.4 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, which is below the national Māori rate of 54.4 percent (Table 4.2). The non-Māori rate of 58.7 percent was also lower than the comparable New Zealand average (60.9%).

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

DHB	Māori	non-Māori	Total
Tairāwhiti DHB	49.4%	58.7%	57.9%
New Zealand	54.4%	60.9%	60.5%

4.3 Breast Cancer Screening

Of women in the Tairāwhiti DHB aged 50-64 years, 60.0 percent had a mammogram to check for early signs of breast cancer in the past two years, which was lower than the national average (63.7%), (Table 4.3). The coverage rate for Māori women (50.8%) was slightly below the national Māori rate (51.5%). In contrast, the non-Māori rate (66.1%) was slightly above the national non-Māori average (65.0%).

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

DHB	Māori	non-Māori	Total
Tairāwhiti DHB	50.8%	66.1%	60.0%
New Zealand	51.5%	65.0%	63.7%

4.4 Cervical Cancer Screening

Of Māori women aged 20 to 69 years in the Tairāwhiti DHB who had a primary health care provider, 64.3 percent had a cervical smear in the past three years, which was higher than the overall national rate for Māori women (54.4%), (Table 4.4). The rate for non-Māori women (77.5%) was also higher than the comparable national rate (75.5%).

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

DHB	Māori	non-Māori	Total
Tairāwhiti DHB	64.3%	77.5%	93.4%
New Zealand	54.4%	75.5%	72.6%

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Appendix 1

Demographic Tables

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

Location	Age Group	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026					
		Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total			
Tairāwhiti	0-14	6,050	5,800	11,860	5,890	5,520	11,410	5,770	5,420	11,220	5,670	5,330	10,980	5,370	5,040	10,410	-	11.2	-	13.1	-	12.2
	15-64	13,940	14,650	28,600	14,330	15,130	29,470	14,100	14,910	29,010	13,630	14,460	28,070	13,170	13,890	27,050	-	5.5	-	5.2	-	5.4
	65+	2,400	3,070	5,470	2,760	3,310	6,030	3,170	3,650	6,840	3,760	4,170	7,930	4,310	4,850	9,150		79.6		58.0		67.3
	Total	22,390	23,520	45,930	22,980	23,960	46,910	23,040	23,980	47,070	23,060	23,960	46,980	22,850	23,780	46,610		2.1		1.1		1.5
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			
Tairāwhiti	370	390	760	390	370	760	370	350	730	360	340	690	340	320	660	-	8.1	-	17.9	-	13.2
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		

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			
Tairāwhiti	1,550	1,430	2,990	1,650	1,530	3,180	1,560	1,460	3,020	1,480	1,390	2,870	1,410	1,320	2,730	-	9.0	-	7.7	-	8.7
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			
Tairāwhiti	1,990	1,930	3,920	1,930	1,840	3,770	2,010	1,880	3,900	1,890	1,780	3,670	1,800	1,690	3,490	-	9.5	-	12.4	-	11.0
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			
Tairāwhiti	2,140	2,050	4,190	1,920	1,780	3,700	1,830	1,730	3,570	1,940	1,820	3,750	1,820	1,710	3,530	-	15.0	-	16.6	-	15.8
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			
Tairāwhiti	1,900	1,770	3,670	1,760	1,700	3,460	1,630	1,510	3,140	1,530	1,380	2,910	1,640	1,460	3,100	-	13.7	-	17.5	-	15.5
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
Tairāwhiti	1,190	1,290	2,490	1,520	1,420	2,940	1,440	1,370	2,810	1,210	1,170	2,380	1,110	1,040	2,150	-	6.7	- 19.4 - 13.7
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
Tairāwhiti	1,120	1,290	2,410	1,290	1,460	2,760	1,490	1,500	2,990	1,440	1,440	2,880	1,210	1,250	2,450	8.0	-	3.1 1.7
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
Tairāwhiti	1,320	1,460	2,780	1,150	1,330	2,480	1,210	1,430	2,640	1,480	1,510	2,980	1,420	1,450	2,870	7.6	-	0.7 3.2
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
Tairāwhiti	1,430	1,650	3,070	1,280	1,430	2,710	1,140	1,350	2,490	1,200	1,430	2,630	1,470	1,510	2,980	2.8	-	8.5 - 2.9
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
Tairāwhiti	1,550	1,710	3,260	1,460	1,670	3,130	1,330	1,470	2,810	1,150	1,330	2,480	1,210	1,410	2,620	-	21.9	- 17.5 - 19.6
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
Tairāwhiti	1,630	1,750	3,380	1,500	1,610	3,110	1,420	1,610	3,030	1,310	1,450	2,760	1,120	1,310	2,430	-	31.3	- 25.1 - 28.1
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
Tairāwhiti	1,510	1,470	2,990	1,550	1,760	3,310	1,500	1,640	3,130	1,380	1,570	2,950	1,270	1,410	2,680	-	15.9	- 4.1 - 10.4
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
Tairāwhiti	1,320	1,300	2,620	1,490	1,470	2,960	1,540	1,650	3,190	1,450	1,590	3,030	1,330	1,520	2,850	0.8	16.9	8.8
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
Tairāwhiti	970	960	1,930	1,330	1,280	2,610	1,400	1,380	2,780	1,480	1,590	3,070	1,390	1,530	2,920	43.3	59.4	51.3
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
Tairāwhiti	800	870	1,670	920	960	1,870	1,180	1,190	2,380	1,320	1,310	2,630	1,390	1,520	2,920	73.8	74.7	74.9
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
Tairāwhiti	630	710	1,340	750	830	1,580	810	850	1,660	1,070	1,110	2,170	1,200	1,230	2,420	90.5	73.2	80.6
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
Tairāwhiti	490	630	1,120	530	620	1,140	590	700	1,290	680	750	1,430	900	980	1,880	83.7	55.6	67.9
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
Tairāwhiti	290	450	740	350	490	840	360	490	850	430	560	990	500	610	1,110	72.4	35.6	50.0
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
Tairāwhiti	130	260	390	150	260	400	160	260	430	170	260	440	220	320	530	69.2	23.1	35.9
New Zealand	13,160	25,920	39,080	19,190	30,990	50,170	22,720	32,900	55,620	24,810	34,280	59,090	32,180	43,160	75,340	144.5	66.5	92.8

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

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Tairāwhiti	60	150	210	60	150	200	70	160	230	90	180	270	100	190	290	66.7	26.7	38.1
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
Tairāwhiti	22,400	23,500	45,900	23,000	23,900	46,900	23,100	24,000	47,100	23,000	23,900	47,000	22,900	23,800	46,600	2.2	1.3	1.5
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
Tairāwhiti	0-14	3,710	3,590	7,310	3,740	3,570	7,300	3,780	3,610	7,390	3,830	3,650	7,480	3,680	3,500	7,170	- 0.8	- 2.5	- 1.9
	15-64	6,130	6,830	12,970	6,510	7,260	13,750	6,630	7,370	13,980	6,650	7,340	13,980	6,800	7,360	14,150	10.9	7.8	9.1
	65+	530	740	1,260	660	870	1,530	790	990	1,780	980	1,220	2,230	1,210	1,540	2,750	128.3	108.1	118.3
	Total	10,370	11,160	21,540	10,910	11,700	22,580	11,200	11,970	23,150	11,460	12,210	23,690	11,690	12,400	24,070	12.7	11.1	11.8
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
Tairāwhiti	230	260	500	270	260	530	260	250	510	250	240	490	240	230	480	4.3	- 11.5	- 4.0
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
Tairāwhiti	980	900	1,880	1,110	1,060	2,170	1,070	1,010	2,080	1,020	970	1,980	990	940	1,930	1.0	4.4	2.7
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
Tairāwhiti	1,220	1,190	2,410	1,200	1,180	2,380	1,350	1,290	2,640	1,280	1,220	2,510	1,230	1,170	2,390	0.8	- 1.7	- 0.8
New Zealand	36,500	34,900	71,410	38,540	36,750	75,290	45,430	43,250	88,690	44,370	42,230	86,600	43,760	41,640	85,410	19.9	19.3	19.6

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

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Tairāwhiti	1,280	1,240	2,520	1,160	1,070	2,220	1,100	1,060	2,160	1,280	1,220	2,500	1,220	1,160	2,370	- 4.7	- 6.5	- 6.0
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
Tairāwhiti	1,090	1,070	2,160	1,110	1,130	2,240	1,040	1,010	2,050	1,000	950	1,950	1,170	1,100	2,270	7.3	2.8	5.1
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
Tairāwhiti	670	770	1,440	920	880	1,800	960	920	1,880	830	800	1,620	790	740	1,530	17.9	-	3.9
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
Tairāwhiti	600	700	1,290	600	720	1,320	790	790	1,580	870	850	1,720	750	730	1,470	25.0	4.3	14.0
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
Tairāwhiti	620	740	1,370	560	650	1,210	550	680	1,230	760	770	1,530	840	830	1,670	35.5	12.2	21.9
New Zealand	20,280	23,040	43,320	19,270	21,750	41,020	19,920	22,330	42,250	25,890	26,720	52,610	27,800	26,340	54,150	37.1	14.3	25.0

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

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Tairāwhiti	650	780	1,430	580	700	1,280	530	650	1,190	530	660	1,190	730	750	1,480	12.3	-	3.8
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
Tairāwhiti	640	760	1,410	640	760	1,390	570	700	1,260	510	630	1,140	500	640	1,140	-	21.9	-
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
Tairāwhiti	640	730	1,370	600	710	1,310	590	730	1,320	540	670	1,210	480	610	1,090	-	25.0	-
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
Tairāwhiti	540	560	1,100	590	730	1,310	580	710	1,280	560	700	1,260	510	650	1,160	-	5.6	16.1
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
Tairāwhiti	400	430	830	510	560	1,070	560	670	1,230	540	680	1,220	530	670	1,200	32.5	55.8	44.6
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
Tairāwhiti	280	290	570	400	420	820	460	510	960	510	630	1,140	500	640	1,140	78.6	120.7	100.0
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
Tairāwhiti	220	270	500	240	290	530	320	370	690	400	460	870	460	580	1,040	109.1	114.8	108.0
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
Tairāwhiti	150	200	350	200	240	440	210	230	440	270	330	600	350	410	760	133.3	105.0	117.1
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
Tairāwhiti	110	150	250	130	170	300	150	190	340	160	190	360	220	270	490	100.0	80.0	96.0
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
Tairāwhiti	40	70	100	70	100	170	70	120	190	100	140	240	110	150	260	175.0	114.3	160.0
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
Tairāwhiti	10	50	60	20	50	70	30	60	90	40	70	110	50	90	140	/	80.0	133.3
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
Tairāwhiti	-	-	-	-	20	20	10	20	30	10	30	50	20	40	60	/	/	/
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
Tairāwhiti	10,400	11,200	21,500	10,900	11,700	22,600	11,200	12,000	23,100	11,500	12,200	23,700	11,700	12,400	24,100	12.5	10.7	12.1
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			
Tairāwhiti	0-14	2,340	2,210	4,550	2,150	1,950	4,110	1,990	1,810	3,830	1,840	1,680	3,500	1,690	1,540	3,240	-	27.8	-	30.3	-	28.8
	15-64	7,810	7,820	15,630	7,820	7,870	15,720	7,470	7,540	15,030	6,980	7,120	14,090	6,370	6,530	12,900	-	18.4	-	16.5	-	17.5
	65+	1,870	2,330	4,210	2,100	2,440	4,500	2,380	2,660	5,060	2,780	2,950	5,700	3,100	3,310	6,400	-	65.8	-	42.1	-	52.0
	Total	12,020	12,360	24,390	12,070	12,260	24,330	11,840	12,010	23,920	11,600	11,750	23,290	11,160	11,380	22,540	-	7.2	-	7.9	-	7.6
New Zealand	0-14	344,480	328,550	673,000	343,630	325,770	669,390	344,990	326,400	671,370	348,100	328,490	676,600	344,780	325,920	670,690	-	0.1	-	0.8	-	0.3
	15-64	1,180,810	1,220,510	2,401,330	1,253,390	1,287,880	2,541,300	1,274,120	1,306,250	2,580,350	1,294,170	1,321,760	2,615,920	1,308,470	1,327,170	2,635,660	-	10.8	-	8.7	-	9.8
	65+	217,250	268,680	485,910	264,740	311,720	576,430	305,130	351,320	656,460	354,640	403,490	758,120	409,450	465,470	874,930	-	88.5	-	73.2	-	80.1
	Total	1,742,540	1,817,740	3,560,240	1,861,760	1,925,370	3,787,120	1,924,240	1,983,970	3,908,180	1,996,910	2,053,740	4,050,640	2,062,700	2,118,560	4,181,280	-	18.4	-	16.5	-	17.4

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

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026					
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total			
Tairāwhiti	140	130	260	120	110	230	110	100	220	110	100	200	100	90	180	-	28.6	-	30.8	-	30.8
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			
Tairāwhiti	570	530	1,110	540	470	1,010	490	450	940	460	420	890	420	380	800	-	26.3	-	28.3	-	27.9
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			
Tairāwhiti	770	740	1,510	730	660	1,390	660	590	1,260	610	560	1,160	570	520	1,100	-	26.0	-	29.7	-	27.2
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			
Tairāwhiti	860	810	1,670	760	710	1,480	730	670	1,410	660	600	1,250	600	550	1,160	-	30.2	-	32.1	-	30.5
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			
Tairāwhiti	810	700	1,510	650	570	1,220	590	500	1,090	530	430	960	470	360	830	-	42.0	-	48.6	-	45.0
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			
Tairāwhiti	520	520	1,050	600	540	1,140	480	450	930	380	370	760	320	300	620	-	38.5	-	42.3	-	41.0
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			
Tairāwhiti	520	590	1,120	690	740	1,440	700	710	1,410	570	590	1,160	460	520	980	-	11.5	-	11.9	-	12.5
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			
Tairāwhiti	700	720	1,410	590	680	1,270	660	750	1,410	720	740	1,450	580	620	1,200	-	17.1	-	13.9	-	14.9
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			
Tairāwhiti	780	870	1,640	700	730	1,430	610	700	1,300	670	770	1,440	740	760	1,500	-	5.1	-	12.6	-	8.5
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			
Tairāwhiti	910	950	1,850	820	910	1,740	760	770	1,550	640	700	1,340	710	770	1,480	-	22.0	-	18.9	-	20.0
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			
Tairāwhiti	990	1,020	2,010	900	900	1,800	830	880	1,710	770	780	1,550	640	700	1,340	-	16.4	-	18.2	-	17.4
New Zealand	132,360	137,450	269,810	134,800	143,200	278,000	131,610	142,740	274,340	122,310	133,380	255,680	119,970	126,730	246,710	-	9.4	-	7.8	-	8.6

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

Table 2.15.13: Projected Non-māori Population Aged 65+ Years by Sex at 30 June 2007, 2012, 2016 (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			
Tairāwhiti	970	910	1,890	960	1,030	2,000	920	930	1,850	820	870	1,690	760	760	1,520	-	21.6	-	16.5	-	19.6
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
Tairāwhiti	920	870	1,790	980	910	1,890	980	980	1,960	910	910	1,810	800	850	1,650	-	13.0	- 2.3 - 7.8
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
Tairāwhiti	690	670	1,360	930	860	1,790	940	870	1,820	970	960	1,930	890	890	1,780	29.0	32.8	30.9
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
Tairāwhiti	580	600	1,170	680	670	1,340	860	820	1,690	920	850	1,760	930	940	1,880	60.3	56.7	60.7
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
Tairāwhiti	480	510	990	550	590	1,140	600	620	1,220	800	780	1,570	850	820	1,660	77.1	60.8	67.7
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
Tairāwhiti	380	480	870	400	450	840	440	510	950	520	560	1,070	680	710	1,390	78.9	47.9	59.8
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
Tairāwhiti	250	380	640	280	390	670	290	370	660	330	420	750	390	460	850	56.0	21.1	32.8
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
Tairāwhiti	120	210	330	130	210	330	130	200	340	130	190	330	170	230	390	41.7	9.5	18.2
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
Tairāwhiti	60	150	210	60	130	180	60	140	200	80	150	220	80	150	230	33.3	-	9.5
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			
Tairāwhiti	12,020	12,360	24,390	12,070	12,260	24,330	11,840	12,010	23,920	11,600	11,750	23,290	11,160	11,380	22,540	-	7.2	-	7.9	-	7.6
New Zealand	1,742,500	1,817,700	3,560,300	1,861,800	1,925,300	3,787,100	1,924,200	1,984,000	3,908,200	1,996,900	2,053,700	4,050,600	2,062,700	2,118,500	4,181,200	18.4	16.5			17.4	

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

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

These projections were derived in September 2010.

Source: Statistics New Zealand

Population Projections

Prepared for Ministry of Health

Ref No: ROM27819

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

		0–4	5–9	10–14	15–19	20–24	25–29	30–34	35–39	40–44
Tairāwhiti	Number	1,875	1,965	2,124	1,788	1,077	1,074	1,284	1,377	1,515
	Percentage	9.0	9.0	10.0	8.0	5.0	5.0	6.0	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
Tairāwhiti	Number	1,584	1,485	1,239	942	771	612	483	288	180	21,666
	Percentage	7.0	7.0	6.0	4.0	4.0	3.0	2.0	1.0	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
Tairāwhiti	Number	1,776	1,887	2,025	1,671	1,218	1,197	1,434	1,605	1,716
	Percentage	8.0	8.0	9.0	7.0	5.0	5.0	6.0	7.0	8.0
New Zealand	Number	134,694	139,956	148,896	147,762	135,894	125,223	145,677	158,553	162,798
	Percentage	6.5	6.8	7.2	7.2	6.6	6.1	7.1	7.7	7.9

		45–49	50–54	55–59	60–64	65–69	70–74	75–79	80–84	85+	Total
Tairāwhiti	Number	1,680	1,428	1,227	936	828	705	627	435	405	22,797
	Percentage	7.0	6.0	5.0	4.0	4.0	3.0	3.0	2.0	2.0	
New Zealand	Number	150,369	128,421	118,347	91,278	76,434	61,056	54,858	43,113	39,000	2,062,329
	Percentage	7.3	6.2	5.7	4.4	3.7	3.0	2.7	2.1	1.9	

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

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

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

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

		0–4	5–9	10–14	15–19	20–24	25–29	30–34	35–39
Tairāwhiti	Number	3,651	3,855	4,146	3,459	2,292	2,271	2,721	2,979
	Percentage	8.0	9.0	9.0	8.0	5.0	5.0	6.0	7.0
New Zealand	Number	275,076	286,488	306,009	300,198	270,978	242,439	276,561	301,554
	Percentage	6.8	7.1	7.6	7.5	6.7	6.0	6.9	7.5

		45–49	50–54	55–59	60–64	65–69	70–74	75–79	80–84	85+	Total
Tairāwhiti	Number	3,264	2,916	2,469	1,878	1,599	1,317	1,113	723	585	44,463
	Percentage	7.0	7.0	6.0	4.0	4.0	3.0	3.0	2.0	1.0	
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	
	Tairawhiti		New Zealand		Tairawhiti		New Zealand		Tairawhiti		New Zealand		Tairawhiti		New Zealand		Tairawhiti	New Zealand
	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Number
0–4	1,062	64.0	32,355	25	597.0	36	96,579	74.9	1,659	93.4	128,934	2,513.3	117	6.6	5,760	112.3	1,776	5,130
5–9	1,098	62.0	32,544	24	672.0	38	101,832	75.8	1,770	93.8	134,376	2,387.6	117	6.2	5,577	99.1	1,887	5,628
10–14	1,182	61.9	32,379	23	726.0	38	110,901	77.4	1,908	94.2	143,280	2,404.8	114	5.6	5,613	94.2	2,025	5,958
15–19	939	60.8	29,502	21	606.0	39	112,365	79.2	1,545	92.6	141,867	2,212.9	126	7.6	5,895	92.0	1,668	6,411
20–24	690	61.7	22,434	17	429.0	38	106,608	82.6	1,119	91.9	129,042	2,284.3	102	8.4	6,849	121.2	1,218	5,649
25–29	624	55.8	20,529	17	495.0	44	98,604	82.8	1,119	93.5	119,133	2,629.9	75	6.3	6,090	134.4	1,197	4,530
30–34	708	52.1	21,384	15	651.0	48	118,290	84.7	1,359	94.8	139,674	2,708.4	75	5.2	6,000	116.3	1,434	5,157
35–39	720	47.2	20,790	14	807.0	53	131,550	86.4	1,527	95.3	152,340	2,719.9	75	4.7	6,210	110.9	1,602	5,601
40–44	747	45.5	19,905	13	894.0	54	136,773	87.3	1,641	95.6	156,678	2,537.7	75	4.4	6,120	99.1	1,716	6,174
45–49	672	42.7	16,926	12	903.0	57	127,536	88.3	1,575	93.8	144,462	2,564.1	105	6.3	5,907	104.8	1,680	5,634
50–54	513	38.3	12,597	10	828.0	62	110,826	89.8	1,341	93.9	123,423	2,447.4	87	6.1	4,998	99.1	1,428	5,043
55–59	393	33.9	9,762	9	765.0	66	104,037	91.4	1,158	94.1	113,799	2,414.6	69	5.6	4,548	96.5	1,230	4,713
60–64	270	30.6	6,717	8	612.0	69	81,159	92.4	882	94.2	87,876	2,267.2	51	5.4	3,405	87.8	936	3,876
65–69	246	31.5	5,310	7	534.0	68	68,244	92.8	780	94.2	73,554	2,197.0	48	5.8	2,880	86.0	828	3,348
70–74	198	30.3	3,471	6	456.0	70	55,368	94.1	654	92.8	58,839	2,066.7	51	7.2	2,217	77.9	705	2,847
75–79	129	21.6	2,190	4	468.0	78	50,607	95.9	597	95.2	52,797	2,154.1	33	5.3	2,058	84.0	627	2,451
80–84	60	14.6	1,074	3	351.0	85	40,437	97.4	411	93.8	41,511	2,151.9	24	5.5	1,605	83.2	438	1,929
85 and over	42	10.8	609	2	348.0	89	37,002	98.4	390	96.3	37,611	2,143.1	18	4.4	1,389	79.1	405	1,755
Total	10,290	48.0	290,469	15	11,145.0	52	1,688,736	85.3	21,435	94.0	1,979,205	2,418.4	1,362	6.0	83,124	101.6	22,797	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 >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	
	Tairāwhiti		New Zealand		Tairāwhiti		New Zealand		Tairāwhiti		New Zealand		Tairāwhiti		New Zealand		Tairāwhiti	New Zealand
	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Number
0–4	1,098	62.7	34,071	25.3	654	37.3	100,671	74.7	1,752	93.4	134,742	2,626.5	123	6.6	5,640	109.9	1,875	5,130
5–9	1,140	60.9	34,230	24.2	732	39.1	106,974	75.8	1,872	95.1	141,204	2,509.0	96	4.9	5,331	94.7	1,968	5,628
10–14	1,221	61.0	34,347	22.7	780	39.0	117,129	77.3	2,001	94.2	151,476	2,542.4	123	5.8	5,637	94.6	2,124	5,958
15–19	966	57.3	29,031	19.9	720	42.7	117,156	80.1	1,686	94.1	146,187	2,280.3	102	5.7	6,252	97.5	1,791	6,411
20–24	546	55.3	20,337	16.0	441	44.7	107,127	84.0	987	91.9	127,464	2,256.4	90	8.4	7,623	134.9	1,074	5,649
25–29	534	53.5	17,577	15.9	465	46.5	92,970	84.1	999	93.0	110,547	2,440.3	75	7.0	6,669	147.2	1,074	4,530
30–34	579	48.3	18,075	14.5	621	51.8	106,272	85.5	1,200	93.5	124,347	2,411.2	84	6.5	6,540	126.8	1,284	5,157
35–39	591	46.2	17,808	13.1	687	53.8	118,554	86.9	1,278	93.0	136,362	2,434.6	96	7.0	6,639	118.5	1,374	5,601
40–44	594	41.8	17,367	12.0	828	58.2	126,945	88.0	1,422	93.9	144,312	2,337.4	93	6.1	6,588	106.7	1,515	6,174
45–49	597	40.3	14,979	10.9	885	59.7	122,079	89.1	1,482	93.6	137,058	2,432.7	102	6.4	5,994	106.4	1,584	5,634
50–54	501	35.3	11,595	9.7	918	64.7	107,670	90.3	1,419	95.6	119,265	2,365.0	66	4.4	5,046	100.1	1,485	5,043
55–59	345	29.8	8,868	8.0	813	70.2	101,742	92.0	1,158	93.5	110,610	2,346.9	81	6.5	4,614	97.9	1,239	4,713
60–64	252	28.7	6,096	7.2	627	71.3	78,822	92.8	879	93.0	84,918	2,190.9	60	6.3	3,420	88.2	945	3,876
65–69	210	29.0	4,848	7.0	513	71.0	64,494	93.0	723	93.8	69,342	2,071.1	48	6.2	2,769	82.7	771	3,348
70–74	141	24.2	3,039	5.7	441	75.8	50,718	94.3	582	95.1	53,757	1,888.2	30	4.9	2,121	74.5	612	2,847
75–79	99	21.7	1,620	3.6	357	78.3	42,957	96.4	456	94.4	44,577	1,818.7	27	5.6	1,782	72.7	483	2,451
80–84	33	12.5	693	2.5	231	87.5	27,219	97.5	264	91.7	27,912	1,447.0	24	8.3	1,212	62.8	288	1,929
85 and over	12	6.9	279	1.7	162	93.1	16,599	98.3	174	98.3	16,878	961.7	9	5.1	789	45.0	177	1,755
Total	9,468	46.6	274,860	14.6	10,863	53.4	1,606,098	85.4	20,331	93.9	1,880,958	2,298.3	1,332	6.1	84,660	103.4	21,663	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 >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	
	Tairawhiti		New Zealand		Tairawhiti		New Zealand		Tairawhiti		New Zealand		Tairawhiti		New Zealand		Tairawhiti	New Zealand
	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Number
0–4	2,163	63.5	66,426	25.2	1,245	36.5	197,250	74.8	3,408	93.3	263,676	95.9	240	6.6	11,400	4.1	3,651	275,079
5–9	2,241	61.5	66,774	24.2	1,401	38.5	208,806	75.8	3,642	94.5	275,580	96.2	210	5.5	10,908	3.8	3,852	286,488
10–14	2,403	61.4	66,726	22.6	1,509	38.6	228,030	77.4	3,912	94.4	294,756	96.3	234	5.6	11,253	3.7	4,146	306,009
15–19	1,902	58.9	58,533	20.3	1,329	41.1	229,521	79.7	3,231	93.4	288,054	96.0	231	6.7	12,144	4.0	3,459	300,198
20–24	1,236	58.8	42,771	16.7	867	41.2	213,735	83.3	2,103	91.6	256,506	94.7	189	8.2	14,472	5.3	2,295	270,978
25–29	1,158	54.7	38,106	16.6	960	45.3	191,577	83.4	2,118	93.3	229,683	94.7	153	6.7	12,759	5.3	2,271	242,442
30–34	1,290	50.4	39,459	14.9	1,269	49.6	224,562	85.1	2,559	94.0	264,021	95.5	159	5.8	12,540	4.5	2,721	276,561
35–39	1,311	46.7	38,598	13.4	1,497	53.3	250,104	86.6	2,808	94.4	288,702	95.7	171	5.7	12,852	4.3	2,976	301,554
40–44	1,344	43.9	37,272	12.4	1,716	56.1	263,718	87.6	3,060	94.7	300,990	95.9	171	5.3	12,708	4.1	3,231	313,698
45–49	1,269	41.5	31,908	11.3	1,788	58.5	249,612	88.7	3,057	93.7	281,520	95.9	204	6.3	11,901	4.1	3,264	293,421
50–54	1,014	36.7	24,192	10.0	1,746	63.3	218,496	90.0	2,760	94.7	242,688	96.0	153	5.3	10,044	4.0	2,913	252,732
55–59	735	31.7	18,630	8.3	1,581	68.3	205,779	91.7	2,316	93.9	224,409	96.1	150	6.1	9,162	3.9	2,466	233,574
60–64	522	29.6	12,816	7.4	1,242	70.4	159,975	92.6	1,764	93.9	172,791	96.2	114	6.1	6,825	3.8	1,878	179,616
65–69	459	30.5	10,158	7.1	1,047	69.5	132,741	92.9	1,506	94.2	142,899	96.2	96	6.0	5,646	3.8	1,599	148,548
70–74	339	27.5	6,510	5.8	894	72.5	106,086	94.2	1,233	93.6	112,596	96.3	84	6.4	4,338	3.7	1,317	116,934
75–79	228	21.7	3,807	3.9	825	78.3	93,567	96.1	1,053	94.6	97,374	96.2	60	5.4	3,840	3.8	1,113	101,214
80–84	93	13.8	1,764	2.5	582	86.2	67,659	97.5	675	93.4	69,423	96.1	48	6.6	2,814	3.9	723	72,240
85 and over	57	10.2	888	1.6	504	89.8	53,604	98.4	561	96.4	54,492	96.2	24	4.1	2,178	3.8	582	56,670
Total	19,758	47.3	565,326	14.6	22,008	52.7	3,294,837	85.4	41,766	93.9	3,860,163	95.8	2,697	6.1	167,784	4.2	44,463	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)

Location	Unit	Birthplace										
		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
Tairawhiti	Number	37,917	513	396	1,446	318	177	405	324	3,582	2,964	44,463
	Percentage	85.0	1.0	1.0	3.0	1.0	-	1.0	1.0	8.0	7.0	
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
Tairāwhiti	Number	10,545	13,005	1,383	2,097	2,262	3,516	32,808
	Percentage	32.1	39.6	4.2	6.4	6.9	10.7	
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 ⁽²⁾	Spouse ⁽³⁾	Other partnership ⁽⁴⁾	Total partnered	Non-partnered, not further defined	Non-partnered, never married and never joined in a civil union	Non-partnered, separated ⁽⁵⁾	Non-partnered, divorced	Non-partnered, widowed or bereaved civil union partner	Total non-partnered	Not stated	Total
Tairāwhiti	Number	720	12,597	4,128	17,445	1,242	7,017	984	1,323	1,860	12,429	2,934	32,811
	Percentage	4.1	72.2	23.7	58.4	10.0	56.5	7.9	10.6	15.0	41.6		
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
Tairāwhiti	Number	3,813	4,557	3,138	11,511
	Percentage	33.1	39.6	27.3	
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
Tairāwhiti	Number	10,383	507	36	594	3,630	333	15,486
	Percentage	67.1	3.3	0.2	3.8	23.4	2.2	
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
Tairāwhiti	Number	807	32,952	7,413	438	99	30	6	2,715	44,460
	Percentage	1.8	74.1	16.7	1.0	0.2	0.1	0.0	6.1	
New Zealand	Number	75,198	3,083,904	562,446	83,400	19,281	5,055	1,476	197,190	4,027,947
	Percentage	1.9	76.6	14.0	2.1	0.5	0.1	0.0	4.9	

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

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

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

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

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

Location	Unit	Age Group (Years) of Mother									
		15–19		20–24		25–29		30–34		35–39	
		Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage
Tairāwhiti	No children	1,323	37.5	573	16.3	363	10.3	249	7.1	174	4.9
	One child	78	4.5	261	14.9	237	13.6	258	14.8	171	9.8
	Two children	18	0.5	159	4.4	258	7.2	384	10.7	483	13.4
	Three children	-	-	51	1.8	114	4.0	213	7.4	330	11.4
	Four children	-	-	12	0.7	51	3.1	114	6.9	156	9.4
	Five children	-	-	3	0.4	24	3.1	48	6.1	84	10.7
	Six or more children	3	0.3	-	-	12	1.4	30	3.4	51	5.8
	Object to answering	27	5.0	27	5.0	27	5.0	30	5.6	48	8.9
	Not elsewhere included(2)	216	14.5	132	8.9	105	7.1	105	7.1	108	7.3
	Total	1,671	9.8	1,215	7.1	1,197	7.0	1,434	8.4	1,602	9.4
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
Tairāwhiti	No children	153	4.3	168	4.8	120	3	87	2.5	60	1.7
	One child	174	9.9	159	9.1	111	6	102	5.8	57	3.3
	Two children	510	14.2	408	11.4	411	11	297	8.3	204	5.7
	Three children	366	12.7	393	13.6	321	11	294	10.2	222	7.7
	Four children	198	11.9	207	12.5	159	10	159	9.6	144	8.7
	Five children	93	11.8	87	11.1	75	10	66	8.4	45	5.7
	Six or more children	63	7.1	54	6.1	60	7	78	8.8	78	8.8
	Object to answering	42	7.8	69	12.8	51	9	54	10.1	42	7.8
	Not elsewhere included(2)	114	7.7	135	9.1	123	8	90	6.0	81	5.4
	Total	1,716	10.0	1,680	9.8	1,428	8	1,227	7.2	936	5.5
New Zealand	No children	22,218	4.8	18,129	3.9	13,647	3	10,785	2.3	7,362	1.6
	One child	20,712	11.7	16,119	9.1	11,901	7	9,288	5.2	5,697	3.2
	Two children	53,691	14.4	48,369	12.9	41,979	11	38,571	10.3	26,340	7.0
	Three children	31,185	12.3	32,211	12.7	29,451	12	28,899	11.4	23,145	9.1
	Four children	12,384	10.2	13,512	11.1	12,261	10	12,141	10.0	11,604	9.6
	Five children	4,569	9.3	4,647	9.4	4,116	8	4,221	8.6	4,431	9.0
	Six or more children	3,381	7.9	3,360	7.9	2,871	7	2,910	6.8	3,738	8.8
	Object to answering	5,157	11.3	5,001	10.9	4,458	10	4,476	9.8	3,351	7.3
	Not elsewhere included(2)	9,495	8.3	9,021	7.9	7,734	7	7,056	6.2	5,613	4.9
	Total	162,798	9.9	150,369	9.2	128,421	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
Tairawhiti	No children	54	1.5	48	1.4	63	1.8	51	1.4	42	1.2	3,525
	One child	27	1.5	24	1.4	18	1.0	33	1.9	27	1.5	1,749
	Two children	138	3.8	99	2.8	99	2.8	63	1.8	75	2.1	3,594
	Three children	177	6.1	132	4.6	105	3.6	93	3.2	69	2.4	2,886
	Four children	135	8.1	99	6.0	105	6.3	60	3.6	63	3.8	1,662
	Five children	69	8.8	81	10.3	48	6.1	36	4.6	24	3.1	786
	Six or more children	117	13.3	117	13.3	111	12.6	51	5.8	51	5.8	882
	Object to answering	39	7.3	33	6.1	21	3.9	15	2.8	9	1.7	537
	Not elsewhere included(2)	75	5.0	72	4.8	57	3.8	36	2.4	45	3.0	1,488
	Total	828	4.8	705	4.1	627	3.7	438	2.6	405	2.4	17,112
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
Tairāwhiti	Number	2,157	10,893	4,206	1,029	1,881	1,050	2,286	13,593	2,106	15,699
	Percentage	13.7	69.4	26.8	6.6	12.0	6.7	14.6			
New Zealand	Number	196,767	1,122,597	372,858	86,427	155,106	88,233	188,835	1,362,123	159,465	1,521,591
	Percentage	12.9	73.8	24.5	5.7	10.2	5.8	12.4			

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

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

(3) Includes Response Unidentifiable and Not Stated.

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

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

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

		Unpaid Activity: Female									
Location	Unit	No activities	Household work, cooking, repairs, gardening, etc, for own household	Looking after a child who is a member of own household	Looking after a member of own household who is ill or has a disability	Looking after a child who does not live in own household	Helping someone who is ill or has a disability who does not live in own household	Other helping or voluntary work for or through any organisation, group or marae	Total people stated	Total people, not elsewhere included(3)	Total people
Tairāwhiti	Number	1,290	13,371	6,423	1,839	4,038	2,163	3,246	15,069	2,043	17,109
	Percentage	7.5	78.2	37.5	10.8	23.6	12.6	19.0			
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
Tairāwhiti	Number	3,447	24,267	10,629	2,868	5,919	3,213	5,532	28,662	4,146	32,808
	Percentage	10.5	74.0	32.4	8.7	18.0	9.8	16.9			
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
Tairāwhiti	Number	9,570	4,512	2,769	1,134	690	1,473	3,072
	Percentage	29.2	13.8	8.4	3.5	2.1	4.5	9.4
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
Tairāwhiti	Number	984	1,539	1,971	354	216	51	4,470	32,808
	Percentage	3.0	4.7	6.0	1.1	0.7	0.2	13.6	
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
Tairāwhiti	Number	180	1,164	2,331	2,526	4,458	3,339	2,562	2,481
	Percentage	0.6	3.6	7.1	7.7	13.6	10.2	7.8	7.6
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
Tairāwhiti	Number	2,070	1,878	2,223	2,085	699	585	4,227	32,811
	Percentage	6.3	5.7	6.8	6.4	2.1	1.8	12.9	
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
Tairāwhiti	Number	1,461	17,544	4,473	5,739	603	4,779	693
	Percentage	4.5	53.5	13.6	17.5	1.8	14.6	2.1
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
Tairāwhiti	Number	1,761	1,071	1,896	1,170	489	1,146	495	2,682	32,811
	Percentage	5.4	3.3	5.8	3.6	1.5	3.5	1.5	8.2	
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
Tairāwhiti	Number	14,664	4,620	19,281	1,497	20,781	10,512	1,518	32,808
	Percentage	76.1	24.0	92.8	7.2	63.3	32.0	4.6	
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
Tairāwhiti	Number	16,563	14,280	11,616	6,690	10,086	8,412	5,397	11,382	5,142	89,574
	Percentage	18.5	15.9	13.0	7.5	11.3	9.4	6.0	12.7	5.7	
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
Tairāwhiti	Number	9,525	12,708	3,030	6,873	648	14,751	732	15,486
	Percentage	61.5	82.1	19.6	44.4	4.2	95.3	4.7	
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
Tairāwhiti	Number	1,503	6,174	5,151	1,884	774	15,486
	Percentage	9.7	39.9	33.3	12.2	5.0	
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)
Tairāwhiti	Number	822	11,619	9,672	22,113
	Percentage	3.7	52.5	43.7	
New Zealand	Number	26,529	405,267	312,162	743,955
	Percentage	3.6	54.5	42.0	

Housing Tenure					
Dwelling not owned by usual resident(s)					
Location	Unit	Rental arrangements not further defined	Rent payments made by usual residents	Rent payments not made by usual residents	Total, dwelling not owned or partly owned by usual resident(s)
Tairāwhiti	Number	186	8,922	2,097	11,205
	Percentage	1.7	79.6	18.7	
New Zealand	Number	6,315	388,275	57,378	451,965
	Percentage	1.4	85.9	12.7	

Housing Tenure							
Dwelling held in a family trust by usual resident(s) ⁽²⁾							
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 ⁽³⁾	Total
Tairāwhiti	Number	441	2,136	2,847	5,424	2,397	41,142
	Percentage	8.1	39.4	52.5			
New Zealand	Number	13,386	72,828	81,711	167,925	90,333	
	Percentage	8.0	43.4	48.7			

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

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

(3) Includes Response Unidentifiable and Not Stated

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

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

Appendix 2

Mortality Tables (2006-2008)

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

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

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

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

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

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

DHB ASR statistically significantly higher than national ASR

DHB ASR statistically significantly lower than national ASR

Key:

DHB = District Health Board

ASR = Age-Standardised Rate

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

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Tairāwhiti	Female	270.9	8.1 - 533.8	72.0	-56.7 - 200.8	148.6	17.3 - 279.9
	Male	406.8	66.4 - 747.3	97.9	-22.5 - 218.4	211.7	58.1 - 365.3
	Total	335.0	122.9 - 547.1	84.7	-2.6 - 171.9	179.3	78.9 - 279.8
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
Tairāwhiti	Female	114.2	-34.4 - 262.8	44.8	-7.6 - 97.2	67.5	4.6 - 130.4
	Male	218.0	-26.0 - 462.1	70.2	-13.5 - 153.9	110.1	22.1 - 198.1
	Total	157.9	26.8 - 289.1	57.1	7.7 - 106.6	87.8	34.4 - 141.1
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
Tairāwhiti	Female	126.3	23.7 - 228.9	45.1	11.2 - 78.9	70.2	29.6 - 110.8
	Male	301.7	112.6 - 490.8	75.7	26.6 - 124.7	138.1	74.9 - 201.3
	Total	202.1	103.5 - 300.6	59.6	30.1 - 89.1	102.5	65.5 - 139.5
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
Tairāwhiti	Female	55.9	-16.7 - 128.4	35.2	-1.2 - 71.7	43.4	7.9 - 78.9
	Male	55.7	-27.5 - 138.9	28.7	0.2 - 57.2	35.8	6.2 - 65.3
	Total	53.3	2.1 - 104.6	32.0	9.0 - 55.1	39.7	16.5 - 62.9
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
Tairāwhiti	Female	123.5	-44.9 - 291.9	50.9	-22.8 - 124.6	78.7	-1.8 - 159.1
	Male	141.2	-51.3 - 333.7	63.6	-7.4 - 134.6	86.2	9.8 - 162.7
	Total	129.3	5.1 - 253.6	56.4	5.4 - 107.5	81.7	26.0 - 137.5
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
Tairāwhiti	Female	58.7	-17.2 - 134.6	19.2	-9.8 - 48.3	33.3	-0.8 - 67.5
	Male	119.1	-4.4 - 242.5	34.3	1.1 - 67.6	59.3	16.5 - 102.2
	Total	85.3	16.6 - 154.0	25.5	3.9 - 47.2	45.1	18.0 - 72.2
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
Tairāwhiti	Female	62.7	-19.4 - 144.7	14.8	-14.7 - 44.3	32.0	-5.0 - 69.1
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
Tairāwhiti	Male	42.3	-31.7 - 116.4	15.8	-7.0 - 38.7	21.0	-1.7 - 43.6
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
Tairāwhiti	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
Tairāwhiti	Female	26.8	-26.7 - 80.4	21.4	-15.1 - 58.0	23.6	-6.0 - 53.1
	Male	38.3	-25.5 - 102.1	18.9	-8.3 - 46.1	23.8	-2.5 - 50.2
	Total	31.4	-9.1 - 72.0	20.6	-2.7 - 43.9	24.0	3.8 - 44.1
New Zealand	Female	14.6	6.9 - 22.3	17.2	14.7 - 19.6	17.0	14.7 - 19.3
	Male	21.9	11.7 - 32.2	22.3	19.5 - 25.1	22.3	19.6 - 25.0
	Total	18.1	11.8 - 24.4	19.6	17.7 - 21.4	19.5	17.7 - 21.2

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

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Tairāwhiti	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	10.1	-7.4 - 27.5	10.0	-6.5 - 26.5
	Total	0.0	0.0 - 0.0	4.5	-3.8 - 12.9	4.5	-3.3 - 12.2
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
Tairāwhiti	Female	14.0	-50.7 - 78.7	4.1	-12.6 - 20.8	9.6	-25.8 - 45.0
	Male	32.2	-75.4 - 139.8	8.0	-47.3 - 63.3	19.1	-39.2 - 77.3
	Total	22.8	-38.5 - 84.1	6.2	-22.9 - 35.3	14.3	-19.4 - 47.9
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
Tairāwhiti	Female	17.4	-52.9 - 87.7	0.0	0.0 - 0.0	13.0	-31.8 - 57.8
	Male	62.7	-76.5 - 201.8	14.4	-55.8 - 84.5	38.3	-39.8 - 116.3
	Total	38.9	-36.5 - 114.3	10.6	-31.5 - 52.7	25.1	-19.0 - 69.2
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
Tairāwhiti	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
Tairāwhiti	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	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
Tairāwhiti	Female	0.0	0.0 - 0.0	0.0	0.0 - 0.0	0.0	0.0 - 0.0
	Male	128.4	40.1 - 216.7	0.0	0.0 - 0.0	85.6	30.6 - 140.7
	Total	90.3	38.6 - 142.0	0.0	0.0 - 0.0	63.8	30.5 - 97.2
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
Tairāwhiti	Female	1089.3	1014.6 - 1164.0	500.6	473.9 - 527.2	653.5	625.4 - 681.6
	Male	2197.8	2057.5 - 2338.1	733.5	697.0 - 770.0	1041.6	1001.2 - 1081.9
	Total	1505.2	1437.0 - 1573.4	604.3	582.2 - 626.3	825.1	801.3 - 848.9
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
Tairāwhiti	Female	443.6	395.4 - 491.8	321.7	302.4 - 341.0	366.6	347.1 - 386.1
	Male	583.0	510.6 - 655.5	305.9	285.5 - 326.4	364.4	343.2 - 385.6
	Total	474.6	437.0 - 512.1	314.4	300.6 - 328.2	364.0	349.9 - 378.1
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
Tairāwhiti	Female	377.9	330.7 - 425.2	118.8	103.3 - 134.2	196.4	178.6 - 214.1
	Male	389.9	325.7 - 454.2	397.0	367.5 - 426.4	379.2	354.1 - 404.3
	Total	344.7	311.0 - 378.4	241.5	225.5 - 257.4	271.6	256.8 - 286.4
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
Tairāwhiti	Female	249.7	213.5 - 285.9	66.6	53.7 - 79.5	112.9	99.6 - 126.2
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
Tairāwhiti	Male	19.1	-54.9 - 93.2	7.2	-15.6 - 30.0	9.5	-13.1 - 32.1
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
Tairāwhiti	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
Tairāwhiti	Female	0.0	0.0 - 0.0	142.2	125.9 - 158.5	163.9	148.3 - 179.5
	Male	363.1	311.1 - 415.1	135.1	117.4 - 152.8	184.9	167.0 - 202.8
	Total	261.3	232.1 - 290.4	141.5	129.4 - 153.5	175.4	163.6 - 187.2
New Zealand	Female	97.5	92.3 - 102.7	133.3	131.8 - 134.8	131.3	129.8 - 132.7
	Male	155.9	148.5 - 163.3	179.8	177.9 - 181.6	178.9	177.1 - 180.7
	Total	125.0	120.6 - 129.4	154.4	153.3 - 155.6	152.9	151.8 - 154.1

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

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Tairāwhiti	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	106.8	92.3 - 121.3	85.5	74.2 - 96.7
	Total	0.0	0.0 - 0.0	46.5	39.8 - 53.2	35.9	30.9 - 40.9
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
Tairāwhiti	Female	292.3	252.2 - 332.4	85.2	76.4 - 94.0	142.5	129.4 - 155.7
	Male	398.8	345.6 - 452.0	303.2	281.4 - 325.1	344.0	322.2 - 365.7
	Total	349.8	316.7 - 382.9	176.3	165.4 - 187.1	224.6	212.7 - 236.5
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

	Tairāwhiti DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Ischaemic heart disease	20.1	Breast cancer (female only)	10.7
	Diabetes	15.8	Lung cancer	9.3
	Breast cancer (female only)	13.8	Ischaemic heart disease	8.1
	Lung cancer	13.6	Colorectal cancer	5.9
	Cerebrovascular diseases	11.5	Diabetes	5.8
Male	Ischaemic heart disease	46.5	Ischaemic heart disease	27.3
	Suicide and self-inflicted injuries	33.4	Suicide and self-inflicted injuries	15.7
	Lung cancer	20.9	Motor vehicle accidents	12.3
	Diabetes	16.0	Lung cancer	10.8
	Birth defects	11.2	Diabetes	8.3
Total	Ischaemic heart disease	33.1	Ischaemic heart disease	17.4
	Suicide and self-inflicted injuries	22.0	Suicide and self-inflicted injuries	10.4
	Lung cancer	17.2	Lung cancer	10.0
	Diabetes	15.9	Motor vehicle accidents	8.6
	Cerebrovascular diseases	9.2	Diabetes	7.0

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

	Tairāwhiti DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Ischaemic heart disease	68.8	Ischaemic heart disease	51.4
	Diabetes	37.2	Lung cancer	31.6
	Lung cancer	36.1	Diabetes	26.8
	Suicide and self-inflicted injuries	34.2	Motor vehicle accidents	17.8
	COPD	16.5	Suicide and self-inflicted injuries	15.4
non-Māori	Ischaemic heart disease	15.6	Ischaemic heart disease	14.3
	Suicide and self-inflicted injuries	9.3	Suicide and self-inflicted injuries	9.3
	Lung cancer	8.1	Lung cancer	8.1
	Colorectal cancer	7.0	Motor vehicle accidents	6.7
	Cerebrovascular diseases	6.0	Colorectal cancer	6.7

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

	Tairāwhiti DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Ischaemic heart disease	653.5	Ischaemic heart disease	418.5
	Stroke	320.0	Stroke	206.0
	Lung cancer	196.4	CORD	172.8
	Diabetes	166.6	Lung cancer	153.4
	Colorectal cancer	163.9	Colorectal cancer	131.3
Male	Ischaemic heart disease	1019.4	Ischaemic heart disease	757.4
	Lung cancer	379.2	Lung cancer	245.3
	CORD	344.0	CORD	238.4
	Stroke	309.2	Stroke	207.5
	Diabetes	185.9	Colorectal cancer	178.9
Total	Ischaemic heart disease	815.9	Ischaemic heart disease	571.4
	Stroke	314.2	Stroke	210.0
	Lung cancer	271.6	CORD	197.9
	CORD	224.6	Lung cancer	194.3
	Colorectal cancer	175.4	Colorectal cancer	152.9

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

	Tairāwhiti DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Ischaemic heart disease	1505.2	Ischaemic heart disease	1109.6
	Diabetes	458.6	Lung cancer	497.3
	Stroke	400.6	CORD	465.0
	CORD	349.8	Diabetes	389.4
	Lung cancer	344.7	Stroke	247.1
non-Māori	Ischaemic heart disease	592.4	Ischaemic heart disease	540.1
	Stroke	272.2	Stroke	207.2
	Lung cancer	241.5	CORD	182.8
	CORD	176.3	Lung cancer	175.1
	Colorectal cancer	141.5	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
Tairāwhiti	Female	5784.9	4418.4 - 7151.3	3425.9	2157.6 - 4694.2	4558.4	3638.2 - 5478.6
	Male	6084.1	4651.8 - 7516.3	3854.9	2561.9 - 5147.8	4910.1	3962.0 - 5858.1
	Total	5938.9	4949.3 - 6928.5	3644.7	2738.3 - 4551.2	4738.3	4077.2 - 5399.4
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
Tairāwhiti	Female	840.1	397.9 - 1282.2	378.8	90.5 - 667.2	526.8	299.1 - 754.5
	Male	1006.1	471.0 - 1541.2	621.9	289.9 - 954.0	758.7	478.7 - 1038.6
	Total	915.8	575.4 - 1256.2	497.2	278.1 - 716.3	638.0	458.6 - 817.5
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
Tairāwhiti	Female	520.2	295.4 - 744.9	172.1	87.6 - 256.6	294.5	196.9 - 392.0
	Male	563.8	303.4 - 824.1	450.6	305.4 - 595.9	501.8	367.3 - 636.3
	Total	542.2	371.9 - 712.4	309.1	225.1 - 393.2	394.2	311.8 - 476.6
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
Tairāwhiti	Female	161.2	33.1 - 289.3	76.5	15.5 - 137.5	105.1	45.3 - 165.0
	Male	121.5	6.2 - 236.8	81.3	15.5 - 147.0	95.2	39.3 - 151.1
	Total	145.1	57.8 - 232.4	78.0	33.7 - 122.4	99.8	59.0 - 140.7
New Zealand	Female	215.4	185.6 - 245.2	92.6	86.7 - 98.4	103.2	97.3 - 109.2
	Male	171.3	142.5 - 200.0	128.3	121.3 - 135.4	132.8	125.9 - 139.7
	Total	196.1	175.2 - 217.0	109.7	105.1 - 114.2	117.3	112.8 - 121.8

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

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Tairāwhiti	Female	495.9	139.5 - 852.3	481.5	92.2 - 870.8	461.9	226.3 - 697.5
	Male	511.3	138.5 - 884.2	513.5	270.7 - 756.3	531.7	321.5 - 741.8
	Total	504.4	246.2 - 762.7	491.8	265.2 - 718.4	493.3	335.3 - 651.3
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
Tairāwhiti	Female	125.6	17.9 - 233.3	25.9	-3.8 - 55.7	59.1	15.9 - 102.3
	Male	180.3	32.5 - 328.2	63.8	9.4 - 118.2	104.2	43.3 - 165.1
	Total	153.5	62.6 - 244.4	43.1	12.9 - 73.2	80.1	43.3 - 116.9
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
Tairāwhiti	Female	178.0	34.3 - 321.7	94.0	16.3 - 171.8	129.2	54.1 - 204.4
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
Tairāwhiti	Male	203.4	54.3 - 352.4	148.1	69.1 - 227.1	161.5	92.5 - 230.6
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
Tairāwhiti	Female	31.9	-36.0 - 99.9	0.0	0.0 - 0.0	28.0	-16.7 - 72.7
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
Tairāwhiti	Female	67.0	-17.6 - 151.5	32.8	-11.9 - 77.5	44.9	2.7 - 87.0
	Male	36.2	-27.8 - 100.2	48.7	5.5 - 91.9	47.9	9.7 - 86.0
	Total	55.2	-0.2 - 110.5	40.8	9.5 - 72.1	46.6	17.9 - 75.3
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
Tairāwhiti	Female	0.0	0.0 - 0.0	163.5	58.6 - 268.4	115.2	50.7 - 179.8
	Male	0.0	0.0 - 0.0	261.4	143.4 - 379.5	193.9	112.5 - 275.3
	Total	22.1	-15.2 - 59.5	211.1	132.0 - 290.1	152.6	101.0 - 204.3
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
Tairāwhiti	Female	1740.2	984.0 - 2496.4	1512.4	721.2 - 2303.7	1662.7	1116.9 - 2208.5
	Male	3501.5	2370.8 - 4632.2	3113.1	1957.5 - 4268.7	3284.4	2493.9 - 4075.0
	Total	2570.8	1906.8 - 3234.7	2318.7	1617.2 - 3020.3	2450.9	1976.1 - 2925.7
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
Tairāwhiti	Female	118.9	-68.8 - 306.7	90.3	-92.8 - 273.3	106.5	-25.1 - 238.2
	Male	44.6	-79.6 - 168.8	46.5	-73.4 - 166.3	48.6	-41.4 - 138.5
	Total	83.5	-31.4 - 198.3	67.9	-40.2 - 176.1	78.0	-2.1 - 158.1
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
Tairāwhiti	Female	1896.4	1565.7 - 2227.0	1497.4	1133.5 - 1861.2	1738.8	1492.5 - 1985.1
	Male	5067.5	4496.1 - 5638.9	5304.8	4636.8 - 5972.7	5171.9	4737.5 - 5606.4
	Total	3413.8	3091.5 - 3736.2	3465.0	3078.7 - 3851.4	3436.6	3189.0 - 3684.3
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
Tairāwhiti	Female	2427.1	2311.9 - 2542.3	1268.4	1218.4 - 1318.4	1583.9	1535.7 - 1632.2
	Male	1835.2	1714.9 - 1955.6	2528.9	2450.9 - 2606.8	2341.5	2277.4 - 2405.6
	Total	2155.9	2074.1 - 2237.7	1849.7	1804.2 - 1895.2	1913.0	1873.7 - 1952.2
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
Tairāwhiti	Female	708.8	650.0 - 767.5	543.5	512.0 - 575.1	572.9	545.7 - 600.1
	Male	829.4	751.4 - 907.4	616.3	583.1 - 649.4	696.6	664.4 - 728.9
	Total	805.8	756.3 - 855.3	571.1	548.5 - 593.6	627.5	606.8 - 648.2
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
Tairāwhiti	Female	769.8	704.8 - 834.7	258.3	234.5 - 282.0	391.0	366.2 - 415.9
	Male	327.4	276.3 - 378.5	581.5	545.9 - 617.0	533.6	503.7 - 563.6
	Total	581.6	538.5 - 624.6	398.2	377.5 - 418.9	447.7	428.6 - 466.7
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
Tairāwhiti	Female	227.5	191.2 - 263.7	234.6	212.4 - 256.8	235.5	216.4 - 254.6
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
Tairāwhiti	Male	55.5	-57.2 - 168.3	30.4	-13.8 - 74.7	36.9	-6.7 - 80.5
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
Tairāwhiti	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
Tairāwhiti	Female	234.3	201.6 - 266.9	232.4	211.6 - 253.3	222.3	205.1 - 239.4
	Male	0.0	0.0 - 0.0	533.9	496.0 - 571.9	451.6	421.6 - 481.5
	Total	255.7	227.2 - 284.2	380.6	359.2 - 401.9	335.6	318.7 - 352.4
New Zealand	Female	190.3	182.9 - 197.6	370.6	368.1 - 373.2	360.3	357.9 - 362.7
	Male	315.7	305.3 - 326.1	471.8	468.8 - 474.8	465.2	462.3 - 468.1
	Total	251.0	244.8 - 257.3	416.6	414.7 - 418.6	408.1	406.3 - 410.0

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

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Tairāwhiti	Female	0.0	0.0 - 0.0	860.5	820.9 - 900.1	675.2	645.8 - 704.6
	Male	0.0	0.0 - 0.0	1554.7	1495.6 - 1613.7	1207.4	1162.7 - 1252.0
	Total	0.0	0.0 - 0.0	1181.5	1146.7 - 1216.4	914.3	888.4 - 940.2
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
Tairāwhiti	Female	1426.0	1337.1 - 1514.8	529.4	497.5 - 561.3	763.5	729.7 - 797.2
	Male	1273.8	1178.1 - 1369.5	940.3	897.9 - 982.7	1047.3	1007.2 - 1087.5
	Total	1386.8	1320.8 - 1452.9	702.5	676.7 - 728.2	878.6	853.0 - 904.2
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
Tairāwhiti	Female	362.2	133.7 - 590.8	57.2	-31.2 - 145.6	162.4	64.2 - 260.6
	Male	298.8	70.9 - 526.8	62.0	-12.2 - 136.1	138.8	45.2 - 232.4
	Total	333.3	171.9 - 494.7	58.7	2.6 - 114.9	150.9	83.2 - 218.6
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
Tairāwhiti	Female	89.9	-20.4 - 200.2	0.0	0.0 - 0.0	33.9	-8.0 - 75.8
	Male	73.7	-31.2 - 178.6	0.0	0.0 - 0.0	25.9	-9.0 - 60.9
	Total	83.8	6.2 - 161.4	4.7	-6.9 - 16.3	30.3	2.6 - 58.0
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
Tairāwhiti	Female	226.4	17.6 - 435.3	73.5	-56.7 - 203.7	143.9	23.9 - 263.9
	Male	93.2	-47.8 - 234.3	60.0	-39.4 - 159.5	77.6	-8.7 - 164.0
	Total	165.6	35.3 - 296.0	67.2	-15.3 - 149.8	112.8	37.4 - 188.1
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
Tairāwhiti	Female	685.3	531.0 - 839.6	165.7	119.6 - 211.8	330.2	270.8 - 389.5
	Male	644.2	484.9 - 803.5	344.3	274.3 - 414.4	438.8	370.5 - 507.1
	Total	672.3	561.0 - 783.6	248.9	207.5 - 290.4	379.1	334.2 - 424.0
New Zealand	Female	1174.3	1132.4 - 1216.2	271.9	266.3 - 277.5	340.6	334.4 - 346.7
	Male	934.7	894.6 - 974.8	314.2	308.3 - 320.1	356.1	350.0 - 362.3
	Total	1057.1	1028.2 - 1086.0	288.8	284.7 - 292.8	344.4	340.0 - 348.7

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

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Tairāwhiti	Female	409.3	168.7 - 649.8	73.6	-53.2 - 200.3	283.7	125.8 - 441.7
	Male	825.2	488.2 - 1162.2	260.5	16.3 - 504.8	613.6	383.8 - 843.4
	Total	621.4	413.0 - 829.8	169.5	29.8 - 309.1	452.4	311.8 - 593.0
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
Tairāwhiti	Female	67.8	-30.9 - 166.5	152.7	-43.4 - 348.8	98.8	3.6 - 193.9
	Male	0.0	0.0 - 0.0	159.7	-34.9 - 354.4	71.1	-7.9 - 150.2
	Total	42.8	-12.2 - 97.9	156.2	18.1 - 294.4	84.6	23.0 - 146.2
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
Tairāwhiti	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
Tairāwhiti	Female	864.2	516.9 - 1211.5	627.9	252.5 - 1003.2	775.0	516.6 - 1033.3
	Male	877.4	535.7 - 1219.1	992.9	539.3 - 1446.6	924.4	650.6 - 1198.2
	Total	871.0	627.4 - 1114.6	815.9	519.7 - 1112.0	851.6	663.0 - 1040.1
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
Tairāwhiti	Female	2226.1	2120.6 - 2331.5	2950.6	2885.2 - 3016.0	2841.6	2785.7 - 2897.5
	Male	1509.4	1398.4 - 1620.4	1866.2	1807.3 - 1925.1	1852.4	1800.1 - 1904.8
	Total	1980.4	1903.1 - 2057.8	2488.0	2443.5 - 2532.5	2426.3	2387.6 - 2465.1
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
Tairāwhiti	Female	3226.7	3090.2 - 3363.3	2702.4	2625.3 - 2779.6	2860.6	2793.2 - 2928.0
	Male	3828.6	3651.9 - 4005.3	2992.9	2907.8 - 3078.1	3166.7	3090.7 - 3242.6
	Total	3442.8	3336.7 - 3549.0	2846.6	2789.3 - 2903.8	3002.2	2951.8 - 3052.7
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

	Tairāwhiti DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Respiratory infections	799.6	Respiratory infections	510.3
	Dental conditions	500.7	Gastroenteritis	371.2
	Gastroenteritis	474.0	Dental conditions	301.5
	ENT infections	380.5	ENT infections	265.7
	Cellulitis	353.9	Cellulitis	243.5
Male	Respiratory infections	869.2	Respiratory infections	570.2
	Dental conditions	514.0	Gastroenteritis	355.3
	ENT infections	361.4	ENT infections	331.7
	Obstructed hernia	353.2	Dental conditions	319.0
	Gastroenteritis	349.6	Angina	300.1
Total	Respiratory infections	835.5	Respiratory infections	541.0
	Dental conditions	506.1	Gastroenteritis	363.7
	Gastroenteritis	411.9	Dental conditions	310.3
	ENT infections	371.5	ENT infections	299.6
	Angina	244.4	Angina	258.9

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

	Tairāwhiti DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Respiratory infections	993.7	Respiratory infections	742.2
	Dental conditions	652.2	Dental conditions	441.6
	ENT infections	401.0	Asthma	356.4
	Gastroenteritis	395.6	ENT infections	355.9
	Asthma	337.4	Angina	329.4
non-Māori	Respiratory infections	677.0	Respiratory infections	500.0
	Gastroenteritis	439.3	Gastroenteritis	379.7
	ENT infections	333.9	ENT infections	283.8
	Dental conditions	276.0	Dental conditions	271.8
	Angina	203.8	Angina	250.3

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

	Tairāwhiti DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Angina	1621.8	Persons encountering health services for specific procedures and health care	1802.8
	Persons encountering health services for specific procedures and health care	1406.6	Angina	1499.8
	Respiratory infections	1258.8	Respiratory infections	1132.4
	Other forms of heart disease	1027.3	CORD	968.0
	Disorders of lens	957.7	Other forms of heart disease	955.6
Male	Persons encountering health services for specific procedures and health care	2339.2	Persons encountering health services for specific procedures and health care	2367.0
	Respiratory infections	2011.4	Angina	1956.7
	Angina	1850.8	Respiratory infections	1721.7
	Complications of surgical and medical care, not elsewhere classified	1730.6	Ischaemic heart disease	1550.1
	Ischaemic heart disease	1396.0	Other forms of heart disease	1232.4
Total	Persons encountering health services for specific procedures and health care	1817.1	Persons encountering health services for specific procedures and health care	2059.9
	Angina	1721.2	Angina	1712.2
	Respiratory infections	1591.6	Respiratory infections	1388.0
	Complications of surgical and medical care, not elsewhere classified	1187.8	Ischaemic heart disease	1148.7
	Other forms of heart disease	1185.1	Other forms of heart disease	1084.0

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

	Tairāwhiti DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Respiratory infections	2706.0	Persons encountering health services for specific procedures and health care	7454.5
	Congestive heart failure	2476.2	CORD	2912.0
	Diabetes	2209.9	Respiratory infections	2597.3
	Persons encountering health services for specific procedures and health care	2179.4	Diabetes	2074.3
	Angina	1711.5	Angina	1943.8
non-Māori	Angina	1737.5	Persons encountering health services for specific procedures and health care	1705.0
	Persons encountering health services for specific procedures and health care	1704.5	Angina	1698.8
	Respiratory infections	1231.3	Respiratory infections	1319.4
	Skin cancers	1181.5	Ischaemic heart disease	1133.2
	Other forms of heart disease	1093.1	Other forms of heart disease	1069.6

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

	Tairāwhiti DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Dental conditions	850.0	Dental conditions	660.6
	Respiratory infections	711.6	Respiratory infections	622.0
	Injuries to the elbow and forearm	474.2	ENT infections	380.4
	ENT infections	451.3	Injuries to the elbow and forearm	337.0
	Other diseases of intestines	406.1	Persons encountering health services for specific procedures and health care	311.2
Male	Dental conditions	978.2	Dental conditions	687.9
	Respiratory infections	814.4	Respiratory infections	671.2
	Injuries to the elbow and forearm	643.6	Injuries to the elbow and forearm	520.1
	Persons encountering health services for specific procedures and health care	487.2	ENT infections	457.9
	ENT infections	463.4	Injuries to the head	360.8
Total	Dental conditions	915.3	Dental conditions	674.6
	Respiratory infections	763.4	Respiratory infections	647.1
	Injuries to the elbow and forearm	560.8	Injuries to the elbow and forearm	430.9
	ENT infections	457.0	ENT infections	420.1
	Persons encountering health services for specific procedures and health care	412.2	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

	Tairāwhiti DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Dental conditions	1070.6	Dental conditions	843.1
	Respiratory infections	825.9	Respiratory infections	644.5
	Injuries to the elbow and forearm	548.0	ENT infections	555.6
	ENT infections	477.8	Injuries to the elbow and forearm	425.4
	Persons encountering health services for specific procedures and health care	469.4	Persons encountering health services for specific procedures and health care	399.2
non-Māori	Dental conditions	667.9	Respiratory infections	648.9
	Respiratory infections	665.9	Dental conditions	619.8
	Injuries to the elbow and forearm	576.5	Injuries to the elbow and forearm	432.1
	ENT infections	425.0	ENT infections	377.3
	Injuries to the head	408.2	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

	Tairāwhiti DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Respiratory infections	5479.5	Persons encountering health services in other circumstances	4296.1
	Gastro-oesophageal reflux disease	1881.3	Respiratory infections	3688.1
	Dental conditions	1881.3	Disorders related to length of gestation and fetal growth	1895.8
	Disorders related to length of gestation and fetal growth	1534.2	Gastro-oesophageal reflux disease	1561.8
	ENT infections	1260.3	ENT infections	1005.2
Male	Respiratory infections	6649.2	Respiratory infections	4875.7
	Disorders related to length of gestation and fetal growth	1832.5	Persons encountering health services in other circumstances	4131.4
	Dental conditions	1518.3	Disorders related to length of gestation and fetal growth	2016.8
	ENT infections	1361.3	Gastro-oesophageal reflux disease	1663.2
	Gastro-oesophageal reflux disease	1204.2	ENT infections	1415.5
Total	Respiratory infections	6077.6	Respiratory infections	4295.1
	Dental conditions	1695.7	Persons encountering health services in other circumstances	4212.0
	Disorders related to length of gestation and fetal growth	1686.7	Disorders related to length of gestation and fetal growth	1957.6
	Gastro-oesophageal reflux disease	1535.0	Gastro-oesophageal reflux disease	1613.6
	ENT infections	1311.9	ENT infections	1214.9

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

	Tairāwhiti DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Respiratory infections	7341.8	Respiratory infections	5965.2
	Dental conditions	2334.7	Persons encountering health services in other circumstances	2422.4
	Disorders related to length of gestation and fetal growth	1926.9	Disorders related to length of gestation and fetal growth	1684.5
	Gastro-oesophageal reflux disease	1434.6	Gastro-oesophageal reflux disease	1311.2
	ENT infections	1364.3	ENT infections	1270.5
non-Māori	Respiratory infections	3882.8	Persons encountering health services in other circumstances	4825.9
	Gastro-oesophageal reflux disease	1709.4	Respiratory infections	3722.1
	Disorders related to length of gestation and fetal growth	1269.8	Disorders related to length of gestation and fetal growth	2051.4
	ENT infections	1221.0	Gastro-oesophageal reflux disease	1717.4
	Haemorrhagic and haematological disorders of fetus and newborn	952.4	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
Tairāwhiti	Female	59.8	-22.8 - 142.4	28.1	-7.8 - 64.0	40.5	1.2 - 79.8
	Male	128.1	1.0 - 255.2	31.7	0.1 - 63.4	59.7	17.0 - 102.4
	Total	89.1	17.5 - 160.6	28.7	5.3 - 52.2	48.8	20.0 - 77.6
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
Tairāwhiti	Female	201.2	51.2 - 351.2	154.3	40.1 - 268.4	169.7	81.9 - 257.5
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
Tairāwhiti	Male	105.4	-7.5 - 218.4	97.2	32.0 - 162.4	97.5	42.6 - 152.4
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
Tairāwhiti	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
Tairāwhiti	Female	40.6	-25.5 - 106.8	43.8	-8.0 - 95.6	43.5	2.4 - 84.5
	Male	73.3	-15.5 - 162.2	43.5	1.7 - 85.3	52.0	13.3 - 90.7
	Total	55.7	1.3 - 110.2	43.3	9.9 - 76.7	47.4	19.0 - 75.8
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
Tairāwhiti	Female	0.0	0.0 - 0.0	37.1	-8.6 - 82.7	30.8	-2.0 - 63.7
	Male	0.0	0.0 - 0.0	84.3	-8.1 - 176.7	58.8	3.6 - 114.0
	Total	16.0	-15.0 - 47.0	59.8	9.7 - 110.0	43.9	12.8 - 75.1
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
Tairāwhiti	Female	0.0	0.0 - 0.0	136.2	119.9 - 152.4	123.6	110.2 - 137.0
	Male	646.7	568.2 - 725.2	393.8	364.1 - 423.5	450.1	421.8 - 478.4
	Total	301.7	269.6 - 333.7	250.7	234.3 - 267.0	268.3	253.4 - 283.2
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
Tairāwhiti	Female	489.7	435.0 - 544.4	253.1	230.3 - 276.0	330.7	307.6 - 353.8
New Zealand	Female	435.6	424.3 - 446.9	310.9	308.5 - 313.4	318.5	316.1 - 320.9

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

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Tairāwhiti	Male	683.4	604.2 - 762.7	715.7	672.4 - 759.1	681.1	645.0 - 717.3
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
Tairāwhiti	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
Tairāwhiti	Female	239.9	202.0 - 277.8	207.1	187.5 - 226.8	222.0	204.0 - 240.0
	Male	568.8	502.4 - 635.2	435.2	402.5 - 467.8	472.5	442.9 - 502.1
	Total	382.3	346.3 - 418.2	316.4	297.6 - 335.1	338.4	321.5 - 355.3
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
Tairāwhiti	Female	0.0	0.0 - 0.0	113.2	97.7 - 128.6	84.0	73.0 - 95.0
	Male	0.0	0.0 - 0.0	259.7	234.7 - 284.8	198.6	179.8 - 217.4
	Total	0.0	0.0 - 0.0	182.9	168.4 - 197.3	137.1	126.5 - 147.6
New Zealand	Female	35.6	32.5 - 38.8	144.7	143.1 - 146.3	138.2	136.7 - 139.7
	Male	48.2	44.0 - 52.5	247.5	245.3 - 249.7	236.7	234.7 - 238.8
	Total	41.0	38.4 - 43.5	191.8	190.4 - 193.1	183.2	181.9 - 184.5

Appendix 5

ICD-10 Codes

Description	ICD-10-AM codes used
I: Certain infectious and parasitic diseases	A00–B99
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
II: Neoplasms (cancer)	C00–D48
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"> ☒ Other central nervous system 	C69–C70, C72
Thyroid and other endocrine glands	C73–C75
<ul style="list-style-type: none"> ☒ Thyroid gland 	C73
<ul style="list-style-type: none"> ☒ Other endocrine glands 	C74–C75
Malignant neoplasm of ill-defined, secondary and unspecified sites	C76–C80
Lymphoma	C81–C85
<ul style="list-style-type: none"> ☒ Hodgkin's disease 	C81
<ul style="list-style-type: none"> ☒ Non-Hodgkin's lymphoma 	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"> ☒ Lymphoid leukaemia 	C91
<ul style="list-style-type: none"> ☒ Myeloid leukaemia 	C92
<ul style="list-style-type: none"> ☒ Acute myeloid leukaemia 	C92.0, C92.4, C92.5
<ul style="list-style-type: none"> ☒ Other myeloid leukaemia 	C92.1–C92.3, C92.8–C92.9
<ul style="list-style-type: none"> ☒ Other leukaemias 	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"> ☒ Melanoma in situ 	D03
<ul style="list-style-type: none"> ☒ Carcinoma in situ of breast 	D05
<ul style="list-style-type: none"> ☒ Carcinoma in situ of cervix uteri 	D06
<ul style="list-style-type: none"> ☒ Other in situ neoplasms 	D00–D02, D04, D07–D09
Benign neoplasms	D10–D36
Neoplasms of uncertain or unknown behaviour	D37–D48
III: Diseases of the blood and blood-forming organs and	D50–D89
IV: Endocrine, nutritional and metabolic diseases	E00–E90
Disorders of thyroid gland	E00–E07
Diabetes mellitus	E10–E14
<ul style="list-style-type: none"> ☒ IDDM (type 1) 	E10
<ul style="list-style-type: none"> ☒ NIDDM (type 2) 	E11–E14
Obesity	E66
V: Mental and behavioural disorders	F00–F99
Organic, including symptomatic, mental disorder	F00–F09
<ul style="list-style-type: none"> ☒ Dementia, vascular and unspecified 	F01, F03
<ul style="list-style-type: none"> ☒ Personality and behavioural disorders due to brain disease, damage, and dysfunction 	F07
<ul style="list-style-type: none"> ☒ Mental and behavioural disorders due to psychoactive substance use 	F10–F19
<ul style="list-style-type: none"> ☒ Alcohol 	F10
<ul style="list-style-type: none"> ☒ Opioids 	F11
<ul style="list-style-type: none"> ☒ Cannabinoids 	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
VI: Diseases of the nervous system	G00–G99
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
VII: Diseases of the eye and adnexa	H00–H59
Disorders of lens	H25–H28
Glaucoma	H40–H42
VIII: Diseases of the ear and mastoid process	H60–H95
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
IX: Diseases of the circulatory system	I00–I99
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
X: Diseases of the respiratory system	J00–J99
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
XI: Diseases of the digestive system	K00–K93
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
XII: Diseases of the skin and subcutaneous tissue	L00–L99
Infections of skin and subcutaneous tissue	L00–L08
XIII: Diseases of the musculoskeletal system and connective tissue	M00–M99
Gout	M10
Arthrosis (osteoarthritis)	M15–M19
Other dorsopathies	M50–M54
XIV: Diseases of the genitourinary system	N00–N99
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
XV: Pregnancy, childbirth and the puerperium	O00–O99
Abscess of breast associated with childbirth	O91.1
XVI: Certain conditions originating in the perinatal period	P00–P96
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
XVII: Congenital malformations, deformations, and chromosomal abnormalities	Q00–Q99
XVIII: Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	R00–R99
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
XIX: Injury, poisoning and certain other consequences of external causes	S00–T98
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
XX: External causes of morbidity and mortality	V01–Y98
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
XXI: Factors influencing health status and contact with health services	Z00–Z99
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