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Environment
Bay of Plenty
REGIONAL COUNCIL

Profile 2009

A Socio-economic Profile of the People of the Bay of Plenty region

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Maps by Environment Bay of Plenty Cartography Section

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Executive summary

Population change

The Bay of Plenty is New Zealand's fifth most populated region. With around 257,379 inhabitants, the region comprises over 6% of the national population. The land area of the region is 12,254 km² with a population density of 21 people per square kilometre.

Between 1996 and 2006 there was a 15% increase in the Bay of Plenty resident population. The Tauranga City and Western Bay of Plenty Districts experienced the largest population increases (33% and 20% respectively) over the ten year period. The Kawerau and Opotiki Districts experienced population declines (-12% and -4% respectively) over the same period of time.

The Bay of Plenty region is expected to remain the second fastest growing region in New Zealand with a projected population increase of 23% between 2006 and 2031. A 45% projected growth in the Tauranga City District between 2006 and 2031 accounts for much of the region's projected growth.

Population characteristics

In 2006 27% of the Bay of Plenty resident population identified themselves as being Maori compared to 14% for New Zealand as a whole¹. Five percent of the population identified with an ethnic group other than NZ European or Maori. In 2006, NZ European comprised 75% of the region's resident population.

As with the national trend the age composition of the Bay of Plenty region from 2001-2006 has shown an increase in the percentage of older persons (65 years plus). The 14% figure is slightly higher than the corresponding 10% increase for the nation as a whole. This is representative of our ageing population.

Households and families

In 2006, 50% of household occupiers in the region owned or partly owned their homes. This is a marked decrease from the 2001 figure of 65%.

While the most common family type in New Zealand is the Two-Parent, this is not the case in the Bay of Plenty. The most common family type in the Bay of Plenty is the Couple Only (42%), slightly higher than the New Zealand proportion of 40%. The percentage of One-Parent families was also slightly higher in the Bay of Plenty (20%), than New Zealand overall (18%).

Within the Bay of Plenty, 12% of Kawerau households indicated being without a motor vehicle for private use compared with 4% of the Western Bay of Plenty.

Around 3% of households in the region were without access to telecommunications in 2006. The highest percentage without access was the 9% of Opotiki residents who had no access to telephone, cellphone, internet or fax.

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Because people can identify with more than one ethnic group, the total adds up to more than 100%.

Employment and unemployment

In 2006, 118,470 people aged 15 years and over were engaged in either full-time or part-time paid employment. This is an 18% increase from the 2001 figure of 100,746. The two industry groups employing the highest percentage (11%) of residents aged 15 years and over within the Bay of Plenty region were the retail trade industries and manufacturing industries.

Unemployment rates in the Bay of Plenty in 2006 (4%) have mirrored the nation wide decrease over the last decade and are just slightly higher than the New Zealand figure of 3%. The highest unemployment rates in the Bay of Plenty region are located in the Kawerau District (8%).

Education

The region has a higher proportion of people with no formal qualifications (26%) when compared with New Zealand (22%). In addition to this, the proportion of people leaving school in 2006 with University Entrance or a Level 3 qualification (33%) was lower than the nationwide figure (39%).

Income

The median personal income of Bay of Plenty residents aged 15 years and over in 2006 was \$22,600 per annum, compared with \$24,400 for New Zealand overall. In 2006 23% of families in the region earned under \$30,000 per annum compared to 19% of families within New Zealand as a whole.

Sixteen per cent of the Bay of Plenty resident population aged 15 years and over received some form of income support during the twelve months preceding the 2006 census. There was considerable variation in the proportion of the population aged 15 years and over who had received income support, varying between 11% in the Western Bay of Plenty district and 28% in the Kawerau district.

2006 key statistics

Key statistics from the 2006 census for the Bay of Plenty region and districts are summarised in the following tables.

Bay of Plenty region 2006 key statistics

| Usually Resident Population | Number | Percent Increase |
|---|-----------------------|------------------|
| 1996 | 224,367 | 2001 - 2006 = 8% |
| 2001 | 239,424 | |
| 2006 | 257,379 | |
| Area and Population Density | | |
| Total Land Area | 12,254km ² | |
| People per Square Kilometre | 21.0/km ² | |
| Total Number of Private Dwellings | Number | Percent Increase |
| 2001 | 87,894 | 2001-2006 = 9% |
| 2006 | 96,168 | |
| Tenure (Home Ownership) | Number | Percent |
| Dwelling Owned or Partly Owned | 47,031 | 50% |
| Dwelling Not Owned By Usual Resident | 28,974 | 31% |
| Age Composition | Number | Percent |
| 0-4 | 18,267 | 7% |
| 5-14 | 41,004 | 16% |
| 15-24 | 30,717 | 12% |
| 25-44 | 65,751 | 26% |
| 45-64 | 63,582 | 25% |
| 65 and over | 38,058 | 15% |
| Ethnic Composition | Number | Percent |
| Mäori | 67,662 | 26% |
| NZ European | 165,012 | 64% |
| Other | 45,192 | 18% |
| Labour Force Status (15 Years and Over) | Number | Percent |
| Labour Force (full-time and part-time) | 118,470 | 59% |
| Non Labour Force | 64,953 | 33% |
| Unemployed | 7,725 | 4% |
| Incomes (15 Years and Over) | Number | Percent |
| Personal Income: \$30,001 and over | 66,780 | 35% |
| Family Income: \$30,001 and over | 44,502 | 77% |
| Highest Qualification (15 Years and Over) | Number | Percent |
| University or Other Tertiary | 35,421 | 18% |
| Secondary School | 88,959 | 45% |
| No Qualifications | 50,685 | 26% |
| Family Type | Number | Percent |
| One-Parent Family | 14,298 | 20% |
| Two-Parent Family | 26,517 | 38% |
| Couple Only | 29,820 | 42% |

Western Bay of Plenty 2006 key statistics

| Usually Resident Population | Number | Percent Increase |
|---|----------------------------|------------------------------|
| 1996 | 34,962 | 2001 - 2006 = 10% |
| 2001 | 38,226 | |
| 2006 | 42,075 | |
| Area and Population Density | | |
| Total Land Area | 2,121km ² | |
| People per Square Kilometre | 19.8/km ² | |
| Total Number of Private Dwellings | Number | Percent Increase |
| 2001 | 14,040 | 2001-2006 = 12% |
| 2006 | 15,690 | |
| Tenure (Home Ownership) | Number | Percent |
| Dwelling Owned or Partly Owned | 7,539 | 49% |
| Dwelling Not Owned By Usual Resident | 3,816 | 25% |
| Age Composition | Number | Percent |
| 0-4 | 2,526 | -4% |
| 5-14 | 6,585 | -1% |
| 15-24 | 4,323 | 17% |
| 25-44 | 9,945 | 1% |
| 45-64 | 12,165 | 22% |
| 65 and over | 6,540 | 20% |
| Ethnic Composition | Number | Percent |
| Mäori | 6,924 | 16% |
| NZ European | 29,031 | 69% |
| Other | 7,734 | 18% |
| Labour Force Status (15 Years and Over) | Number | Percent |
| Labour Force (full-time and part-time) | 20,400 | 62% |
| Non Labour Force | 10,059 | 31% |
| Unemployed | 978 | 3% |
| Incomes (15 Years and Over) | Number | Percent |
| Personal Income: \$30,001 and over | 11,226 | 34% |
| Family Income: \$30,001 and over | 7,845 | 66% |
| Highest Qualification (15 Years and Over) | Number | Percent |
| University or Other Tertiary | 5,928 | 18% |
| Secondary School | 14,742 | 45% |
| No Qualifications | 8,394 | 25% |
| Family Type | Number | Percent |
| One-Parent Family | 1,656 | 14% |
| Two-Parent Family | 4,698 | 40% |
| Couple Only | 5,517 | 46% |
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Tauranga City 2006 key statistics

| Usually Resident Population | Number | Percent Increase |
|---|-----------------------|-------------------|
| 1996 | 77,781 | 2001 - 2006 = 14% |
| 2001 | 90,912 | |
| 2006 | 103,632 | |
| Area and Population Density | | |
| Total Land Area | 168km ² | |
| People per Square Kilometre | 616.9/km ² | |
| _Total Number of Private Dwellings | Number | Percent Increase |
| 2001 | 35,319 | 2001-2006 = 15% |
| 2006 | 40,494 | |
| _Tenure (Home Ownership) | Number | Percent |
| Dwelling Owned or Partly Owned | 19,269 | 48% |
| Dwelling Not Owned By Usual Resident | 12,471 | 31% |
| Age Composition | Number | Percent |
| 0-4 | 6,906 | 8% |
| 5-14 | 14,676 | 10% |
| 15-24 | 12,468 | 20% |
| 25-44 | 26,829 | 8% |
| 45-64 | 24,696 | 21% |
| 65 and over | 18,057 | 15% |
| Ethnic Composition | Number | Percent |
| Mäori | 16,569 | 16% |
| NZ European | 74,916 | 72% |
| Other | 19,422 | 19% |
| Labour Force Status (15 Years and Over) | Number | Percent |
| Labour Force (full-time and part-time) | 48,954 | 60% |
| Non Labour Force | 28,575 | 35% |
| Unemployed | 2,625 | 3% |
| Incomes (15 Years and Over) | Number | Percent |
| Personal Income: \$30,001 and over | 29,082 | 35% |
| Family Income: \$30,001 and over | 19,119 | 66% |
| Highest Qualification (15 Years and Over) | Number | Percent |
| University or Other Tertiary | 16,038 | 20% |
| Secondary School | 38,325 | 47% |
| No Qualifications | 19,644 | 24% |
| Family Type | Number | Percent |
| One-Parent Family | 5,310 | 18% |
| Two-Parent Family | 10,410 | 36% |
| Couple Only | 13,326 | 46% |

Rotorua district (part) 2006 key statistics

| Usually Resident Population | Number | Percent Increase |
|---|----------------------|------------------|
| 1996 | 61,032 | 2001 - 2006 = 2% |
| 2001 | 61,041 | |
| 2006 | 62,289 | |
| Area and Population Density | | |
| Total Land Area | 1,609km ² | |
| People per Square Kilometre | 38.7/km ² | |
| Total Number of Private Dwellings | Number | Percent Increase |
| 2001 | 22,554 | 2001-2006 = 5% |
| 2006 | 23,580 | |
| Tenure (Home Ownership) | Number | Percent |
| Dwelling Owned or Partly Owned | 11,808 | 51% |
| Dwelling Not Owned By Usual Resident | 7,653 | 33% |
| Age Composition | Number | Percent |
| 0-4 | 4,935 | -3% |
| 5-14 | 10,686 | 2% |
| 15-24 | 8,070 | -1% |
| 25-44 | 16,860 | -5% |
| 45-64 | 14,586 | 13% |
| 65 and over | 7,161 | 7% |
| Ethnic Composition | Number | Percent |
| Mäori | 21,990 | 35% |
| NZ European | 35,574 | 57% |
| Other | 11,817 | 19% |
| Labour Force Status (15 Years and Over) | Number | Percent |
| Labour Force (full-time and part-time) | 28,806 | 62% |
| Non Labour Force | 13,785 | 30% |
| Unemployed | 2,112 | 5% |
| Incomes (15 Years and Over) | Number | Percent |
| Personal Income: \$30,001 and over | 17,067 | 35% |
| Family Income: \$30,001 and over | 10,998 | 63% |
| Highest Qualification (15 Years and Over) | Number | Percent |
| University or Other Tertiary | 8,706 | 18% |
| Secondary School | 22,047 | 45% |
| No Qualifications | 12,267 | 25% |
| Family Type | Number | Percent |
| One-Parent Family | 4,116 | 24% |
| Two-Parent Family | 6,921 | 40% |
| Couple Only | 6,333 | 36% |

Whakatane district 2006 key statistics

| 1996 33,177 2001 - 2006 = 1% | Usually Resident Population | Number | Percent Increase |
|--|---|--|---|
| 2006 33,300 Area and Population Density Total Land Area | 1996 | 33,177 | |
| 2006 33,300 Area and Population Density Total Land Area | 2001 | • | |
| Total Land Area 4,457km² 7.5/km² 7.5/k | 2006 | 33,300 | |
| Total Land Area 4,457km² 7.5/km² 7.5/k | Area and Population Density | | |
| Total Number of Private Dwellings | | 4,457km ² | |
| 2001 | People per Square Kilometre | 7.5/km ² | |
| Tenure (Home Ownership) | Total Number of Private Dwellings | Number | Percent Increase |
| Tenure (Home Ownership) Number Percent Dwelling Owned or Partly Owned 6,021 51% Dwelling Not Owned By Usual Resident 3,636 31% Age Composition Number Percent 0-4 2,562 -7% 5-14 5,937 -4% 15-24 3,999 1% 25-44 8,337 -8% 45-64 8,262 15% 65 and over 4,200 12% Ethnic Composition Number Percent Māori 13,203 40% NZ European 18,282 55% Other 4,479 13% Labour Force (full-time and part-time) 14,427 58% Non Labour Force 8,115 33% Unemployed 1,248 5% Incomes (15 Years and Over) Number Percent Personal Income: \$30,001 and over 7,881 32% Family Income: \$30,001 and over 5,265 58% Highest Qualification (15 Years and Over) | 2001 | 11,487 | 2001-2006 = 3% |
| Dwelling Owned or Partly Owned Dwelling Not Owned By Usual Resident 6,021 51% Age Composition 0-4 2,562 -7% 5-14 5,937 -4% 15-24 3,999 1% 25-44 8,337 -8% 45-64 8,262 15% 65 and over 4,200 12% Ethnic Composition Number Percent Mäori 13,203 40% NZ European 18,282 55% Other 4,479 13% Labour Force Status (15 Years and Over) Number Percent Labour Force (full-time and part-time) 14,427 58% Non Labour Force 8,115 33% Unemployed 1,248 5% Incomes (15 Years and Over) Number Percent Personal Income: \$30,001 and over 7,881 32% Family Income: \$30,001 and over 5,265 58% Highest Qualification (15 Years and Over) Number Percent University or Other Tertiary 3,990 16% Second | 2006 | 11,886 | |
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| No Qualifications6,88828%Family TypeNumberPercentOne-Parent Family2,09723%Two-Parent Family3,52839% | Ethnic Composition Mäori NZ European Other Labour Force Status (15 Years and Over) Labour Force (full-time and part-time) Non Labour Force Unemployed Incomes (15 Years and Over) Personal Income: \$30,001 and over Family Income: \$30,001 and over | Number 13,203 18,282 4,479 Number 14,427 8,115 1,248 Number 7,881 5,265 | Percent 40% 55% 13% Percent 58% 33% 5% Percent 32% 58% |
| Family TypeNumberPercentOne-Parent Family2,09723%Two-Parent Family3,52839% | Ethnic Composition Mäori NZ European Other Labour Force Status (15 Years and Over) Labour Force (full-time and part-time) Non Labour Force Unemployed Incomes (15 Years and Over) Personal Income: \$30,001 and over Family Income: \$30,001 and over Highest Qualification (15 Years and Over) | Number 13,203 18,282 4,479 Number 14,427 8,115 1,248 Number 7,881 5,265 Number | Percent 40% 55% 13% Percent 58% 33% 5% Percent 32% 58% Percent |
| One-Parent Family 2,097 23% Two-Parent Family 3,528 39% | Ethnic Composition Mäori NZ European Other Labour Force Status (15 Years and Over) Labour Force (full-time and part-time) Non Labour Force Unemployed Incomes (15 Years and Over) Personal Income: \$30,001 and over Family Income: \$30,001 and over Highest Qualification (15 Years and Over) University or Other Tertiary | Number 13,203 18,282 4,479 Number 14,427 8,115 1,248 Number 7,881 5,265 Number 3,990 | Percent 40% 55% 13% Percent 58% 33% 5% Percent 32% 58% Percent 16% |
| Two-Parent Family 3,528 39% | Ethnic Composition Mäori NZ European Other Labour Force Status (15 Years and Over) Labour Force (full-time and part-time) Non Labour Force Unemployed Incomes (15 Years and Over) Personal Income: \$30,001 and over Family Income: \$30,001 and over Highest Qualification (15 Years and Over) University or Other Tertiary Secondary School | Number 13,203 18,282 4,479 Number 14,427 8,115 1,248 Number 7,881 5,265 Number 3,990 10,560 | Percent 40% 55% 13% Percent 58% 33% 5% Percent 32% 58% Percent 16% 43% |
| | Ethnic Composition Mäori NZ European Other Labour Force Status (15 Years and Over) Labour Force (full-time and part-time) Non Labour Force Unemployed Incomes (15 Years and Over) Personal Income: \$30,001 and over Family Income: \$30,001 and over Highest Qualification (15 Years and Over) University or Other Tertiary Secondary School No Qualifications | Number 13,203 18,282 4,479 Number 14,427 8,115 1,248 Number 7,881 5,265 Number 3,990 10,560 6,888 | Percent 40% 55% 13% Percent 58% 33% 5% Percent 32% 58% Percent 16% 43% 28% |
| Couple Only 3,447 38% | Ethnic Composition Mäori NZ European Other Labour Force Status (15 Years and Over) Labour Force (full-time and part-time) Non Labour Force Unemployed Incomes (15 Years and Over) Personal Income: \$30,001 and over Family Income: \$30,001 and over Highest Qualification (15 Years and Over) University or Other Tertiary Secondary School No Qualifications Family Type | Number 13,203 18,282 4,479 Number 14,427 8,115 1,248 Number 7,881 5,265 Number 3,990 10,560 6,888 Number | Percent 40% 55% 13% Percent 58% 33% 5% Percent 32% 58% Percent 16% 43% 28% Percent |
| Source: Statistics New Zealand website and customised table | Ethnic Composition Mäori NZ European Other Labour Force Status (15 Years and Over) Labour Force (full-time and part-time) Non Labour Force Unemployed Incomes (15 Years and Over) Personal Income: \$30,001 and over Family Income: \$30,001 and over Highest Qualification (15 Years and Over) University or Other Tertiary Secondary School No Qualifications Family Type One-Parent Family | Number 13,203 18,282 4,479 Number 14,427 8,115 1,248 Number 7,881 5,265 Number 3,990 10,560 6,888 Number 2,097 | Percent 40% 55% 13% Percent 58% 33% 5% Percent 32% 58% Percent 16% 43% 28% Percent |

Kawerau district 2006 key statistics

| Usually Resident Population | Number | Percent Increase |
|--|--|---|
| 1996 | 7,827 | 2001 - 2006 = -1% |
| 2001 | 6,975 | |
| 2006 | 6,924 | |
| Area and Population Density | | |
| Total Land Area | 22km ² | |
| People per Square Kilometre | 314.7/km ² | |
| Total Number of Private Dwellings | Number | Percent Increase |
| 2001 | 2,337 | 2001-2006 = 3% |
| 2006 | 2,418 | |
| Tenure (Home Ownership) | Number | Percent |
| Dwelling Owned or Partly Owned | 1,389 | 58% |
| Dwelling Not Owned By Usual Resident | 759 | 32% |
| Age Composition | Number | Percent |
| 0-4 | 609 | -8% |
| 5-14 | 1,341 | -12% |
| 15-24 | 825 | -2% |
| 25-44 | 1,716 | -9% |
| 45-64 | 1,569 | 11% |
| 65 and over | 858 | 33% |
| Ethnic Composition | Number | Percent |
| Mäori | 4,050 | 59% |
| NZ European | 3,144 | 45% |
| Other | 735 | 11% |
| Labour Force Status (15 Years and Over) | Number | Percent |
| Labour Force (full-time and part-time) | 2,412 | 49% |
| | | |
| Non Labour Force | 2,004 | 40% |
| Non Labour Force Unemployed | 2,004 381 | 40% 8% |
| | · | 10,70 |
| Unemployed | 381 | 8% |
| Unemployed Incomes (15 Years and Over) | 381 Number | 8% Percent |
| Unemployed Incomes (15 Years and Over) Personal Income: \$30,001 and over | 381 Number 1,251 | 8% Percent 25% |
| Unemployed Incomes (15 Years and Over) Personal Income: \$30,001 and over Family Income: \$30,001 and over | 381 Number 1,251 897 | 8% Percent 25% 49% |
| Unemployed Incomes (15 Years and Over) Personal Income: \$30,001 and over Family Income: \$30,001 and over Highest Qualification (15 Years and Over) | 381 Number 1,251 897 Number | 8% Percent 25% 49% Percent |
| Unemployed Incomes (15 Years and Over) Personal Income: \$30,001 and over Family Income: \$30,001 and over Highest Qualification (15 Years and Over) University or Other Tertiary | 381 Number 1,251 897 Number 417 | 8% Percent 25% 49% Percent 8% |
| Unemployed Incomes (15 Years and Over) Personal Income: \$30,001 and over Family Income: \$30,001 and over Highest Qualification (15 Years and Over) University or Other Tertiary Secondary School | 381 Number 1,251 897 Number 417 2,028 | 8% Percent 25% 49% Percent 8% 41% |
| Unemployed Incomes (15 Years and Over) Personal Income: \$30,001 and over Family Income: \$30,001 and over Highest Qualification (15 Years and Over) University or Other Tertiary Secondary School No Qualifications | 381 Number 1,251 897 Number 417 2,028 1,827 | 8% Percent 25% 49% Percent 8% 41% 37% |
| Unemployed Incomes (15 Years and Over) Personal Income: \$30,001 and over Family Income: \$30,001 and over Highest Qualification (15 Years and Over) University or Other Tertiary Secondary School No Qualifications Family Type | 381 Number 1,251 897 Number 417 2,028 1,827 Number | 8% Percent 25% 49% Percent 8% 41% 37% Percent |

Opotiki district 2006 key statistics

| Usually Resident Population | Number | Percent Increase |
|---|----------------------|-------------------|
| 1996 | 9,321 | 2001 - 2006 = -2% |
| 2001 | 9,150 | |
| 2006 | 8,976 | |
| Area and Population Density | Number | Percent Increase |
| Total Land Area | 3,090km ² | |
| People per Square Kilometre | 2.9/km ² | |
| Total Number of Private Dwellings | Number | Percent Increase |
| 2001 | 3,189 | 2001-2006 = 2% |
| 2006 | 3,246 | |
| Tenure (Home Ownership) | Number | Percent |
| Dwelling Owned or Partly Owned | 1,518 | 48% |
| Dwelling Not Owned By Usual Resident | 1,083 | 34% |
| Age Composition | Number | Percent |
| 0-4 | 723 | -4% |
| 5-14 | 1,749 | -6% |
| 15-24 | 993 | -2% |
| 25-44 | 2,013 | -14% |
| 45-64 | 2,256 | 10% |
| 65 and over | 1,245 | 9% |
| Ethnic Composition | Number | Percent |
| Mäori | 4,884 | 54% |
| NZ European | 3,945 | 44% |
| Other | 984 | 11% |
| Labour Force Status (15 Years and Over) | Number | Percent |
| Labour Force (full-time and part-time) | 3,375 | 52% |
| Non Labour Force | 2,394 | 37% |
| Unemployed | 366 | 6% |
| Incomes (15 Years and Over) | Number | Percent |
| Personal Income: \$30,001 and over | 1,461 | 22% |
| Family Income: \$30,001 and over | 1,080 | 46% |
| Highest Qualification (15 Years and Over) | Number | Percent |
| University or Other Tertiary | 786 | 12% |
| Secondary School | 2,454 | 38% |
| No Qualifications | 2,235 | 34% |
| Family Type | Number | Percent |
| One-Parent Family | 648 | 28% |
| Two-Parent Family | 834 | 36% |
| Couple Only | 849 | 36% |

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Part 1: Introduction

1.1 Purpose and scope

1.1.1 Basis for Profile

Regional councils such as Environment Bay of Plenty are responsible for the sustainable development of the region including the promotion of social, economic, environmental, and cultural well-being of communities, in the present and for the future. Sustainable development is the ability to progress in order to meet the needs of the present without compromising the capability of future generations to meet their own needs.

Profile 2009 provides an important link for the development of other policies by Environment Bay of Plenty such as the Ten Year Plan, Community Outcomes Monitoring Report and the Regional Land Transport Strategy. The collation of a wide range of socio-economic information into one document provides a base of data for various local and central government agencies to work with and at the same time is a valuable resource for community groups.

To be effective in the development of community well-beings for the present and future, regional councils need to have a clear understanding of the region's social and economic environment. This profile up-dates the report, *Profile 2001: A Socio-economic Profile of the People of the Bay of Plenty Region.* It presents an overview of the demographic and social characteristics, and economics of the Bay of Plenty region and districts and their populations. Information contained in this profile will be used to inform the development of policy by Environment Bay of Plenty and other government agencies. This document will also be useful to those individuals and community groups seeking an overview of the region and its people.

The statutory basis for this profile comes from section 14(c) of the Local Government Act 2002, which requires that local authorities when making a decision should take account of:

...the diversity of the community, and the community's interests, within its district or region; and the interests of the future as well as current communities; and the likely impact of any of these decisions.

1.2 **Profile structure**

This Profile is divided into four main parts:

Part One is divided into two sections. Section One presents the scope and purpose of the profile and data sources. Section Two gives an introductory overview of the Bay of Plenty region.

Part Two examines the demographic characteristics of the Bay of Plenty resident population. This part of the profile is divided into two sections outlining population change between 1996 and 2006, population projections to the year 2031, and the age and ethnic composition of regional and sub-regional populations.

Part Three presents information on the socio-economic characteristics of the region's population. The four sections that make up this part of the profile describe various aspects relating to families and households, employment and unemployment, education, and sources of income.

Part Four presents information based on the 2006 Index of Deprivation. This section includes a series of charts and maps of the Bay of Plenty region detailing the areas deprivation scores.

1.3 **Data presentation**

To aid in interpretation, most of the numerical data are presented in graphical form. In some instances actual numbers relating to tables and figures are included in Appendix 1 of the report. In most instances, the numerical data presented in the figures and tables has been rounded to the nearest whole number.

Where appropriate, information is given for the region, as well as for the territorial authorities (district councils) that fall wholly or partly within the Bay of Plenty regional boundary. Time-series analyses are undertaken in some instances to gain a better understanding of trends over time. Geographical comparisons are also made to see how the Bay of Plenty compares with other regions and New Zealand overall.

In most instances figures for the Rotorua District are given only for the area that resides within the Bay of Plenty region. However in some cases the information was not available at this lower level and so figures for the whole district have been used. The use of these different areas is identified using the terms (part) and (whole) in all tables and figures.

A very small part of the Taupo District also lies within the Bay of Plenty region with a population of only 162 usual residents. Information for this area is included in regional figures but has not been presented at any lower level.

1.4 Data sources

Data for this report comes primarily from Census 2006, accessed from the Statistics New Zealand website (www.stats.govt.nz). Information was gathered from Meshblock Datasets and by using the Table Builder function provided on this website.

Figures relating to school leavers were obtained from the Ministry of Education (www.educationcounts.org.nz) and median house prices for the region were accessed from the Real Estate Institute of New Zealand Inc. through their website (www.reinz.org.nz).

Information pertaining to the Index of Deprivation comes from the Ministry of Health in the form of the *Atlas of Socioeconomic Deprivation in New Zealand NZDep2006*.

Historical information has been attained from the Tauranga City Council website (www.tauranga.govt.nz).

1.5 Regional overview

The Bay of Plenty is located on the east coast of the North Island of New Zealand (refer to Map 1). The region takes in the full sweep of the coastline from Lottin Point in the east, to Waihi Beach in the west. The area of the region is 21,837 square kilometres, comprising 12,254 square kilometres of land and 9,583 square kilometres of coastal marine area.

On the landward side, the region is mostly bounded by the watersheds of the catchments that flow into the Bay of Plenty; this includes the lakes in the Rotorua district. On the ocean side, the region includes 18 offshore islands and the sea extending out to the 12-nautical-mile boundary.

The prominent features of the region include islands such as Matakana, Tuhua (Mayor), and an active volcano being Whakaari (White Island). Other distinctive landmarks include Mauao (Mount Maunganui), Mountains Tarawera and Putauaki (Mount Edgecumbe), the Tauranga and Ohiwa Harbours and the lakes of the Rotorua district.

There are also five large estuaries – the Maketu, Little Waihi, Whakatane, Waiotahi and Waioeka/Otara. The region extends inland, generally to the ridge of the catchments that drain into the Bay of Plenty. The most distant point from the coast is the top of the Rangitaiki River catchment, which is 139 kilometres from the sea.

Eight major rivers empty into the region – these are the Wairoa, Kaituna, Tarawera, Rangitaiki, Whakatane, Waioeka, Motu and Raukokore rivers. The Taupo Volcanic Zone crosses the region from Lake Taupo to Whakaari (White Island). Two major features of this zone are the extensive geothermal areas and the number of earthquake fault lines that run parallel with the zone.

The Bay of Plenty has one of the sunniest climates in the country, especially in coastal areas, and dry spells are common. Daily variations of weather depend largely on wind direction and speed. Annual rainfall follows variations in topography and varies from 1100 mm near the coast to 4400 mm on the highest parts of the Raukumara Ranges.

There have only been subtle changes to the region's land cover when comparing 1996 to 2001. In 2001, 46% of land in the Bay of Plenty was indigenous forest, 23% exotic forest, 23% farmland and slightly more than 1% was urban. However, most of the region's native forests are in hilly terrain, suitable only for inland plants and animals.

The Bay of Plenty region encompasses seven local government districts – Western Bay of Plenty, Tauranga, Whakatane, Kawerau, Opotiki, Rotorua and Taupo. Five of these are entirely within the region's boundaries. The remaining two, Taupo and Rotorua, are only partially within the Bay of Plenty region. District boundaries for all seven districts are shown in Map 2. In addition, the region has a significant number of offshore islands. These islands are currently administered by the Department of Internal Affairs on behalf of the Minister of Local Government.

The Western Bay of Plenty District is the region's northern-most district. It encompasses an area of 2,121 km² from the Ohinemuri River watershed to the Whakatane district boundary, and is bounded to the west by the Kaimai Ranges and to the east by the Pacific Ocean. Land use within the district is varied and includes horticulture, grazing, dairying and exotic and plantation forestry. Horticulture, especially kiwifruit and meat processing, are important primary industries in the district.

The Tauranga City district is located predominantly on low-lying coastal plains and provides a junction point for a variety of transport links, including road, rail, air and sea, most notably the Port of Tauranga. The District has a land area of 168 km² and is the region's largest residential and commercial area.

The Whakatane district has a central location in the Bay of Plenty region, covering the coast from Otamarakau in the west to Ohiwa Harbour in the east. It also extends inland over part of the volcanic plateau and covers 4,442 km². The predominant land uses are plantation forestry, sheep and cattle grazing and dairving.

The Kawerau District is situated at the foot of Putauaki (Mount Edgecumbe) in the south west of the Rangitaiki Plains. The district is largely flat, although there is some hilly land to the south, and contains a significant geothermal resource. Kawerau itself is one of the youngest towns in New Zealand having been built in 1953 to create a centre for the production of forest products from the nearby Tarawera, Matahina and Kaingaroa forests. It has an area of 22 km².

The Opotiki District extends approximately 160 km along the eastern coastline of the Bay of Plenty region, from Ohiwa Harbour to Potikirua, and covers 3,090 km². The landforms of the district fall into three basic physical units: coastal terraces and alluvial plains, rugged hill country and rolling hill country. The district also has an extensive coastline and significant tracts of native forest.

The Rotorua district is landlocked and lies partly within the Bay of Plenty region and the Waikato region. The whole district covers approximately 2,614 km² but only 1609 km² of that lies within the Bay of Plenty region. The area is renowned for its spectacular geothermal sites. Forestry and tourism are important industries to this district.

The section of the Taupo District that falls within the Bay of Plenty has no urban areas and a population of only 162 (less than 1% of the region's total). Taupo District covers 6,954 km² of which 994 km² is in the Bay of Plenty region and comprises the southern most part of the region. This land is on the volcanic plateau and predominantly consists of ash soils. Much of the land is currently in plantation forestry, although sheep and beef grazing and some dairying are also present in this area.

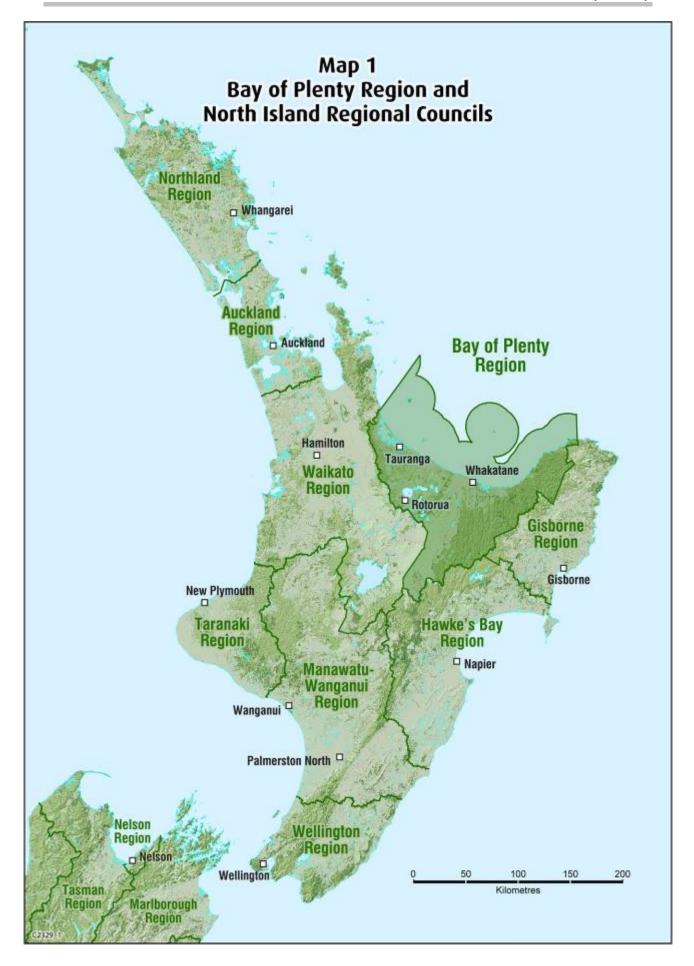
The Bay of Plenty has many islands, some of which are inhabited. The main islands and their physical size are listed in Table 2.1 below.

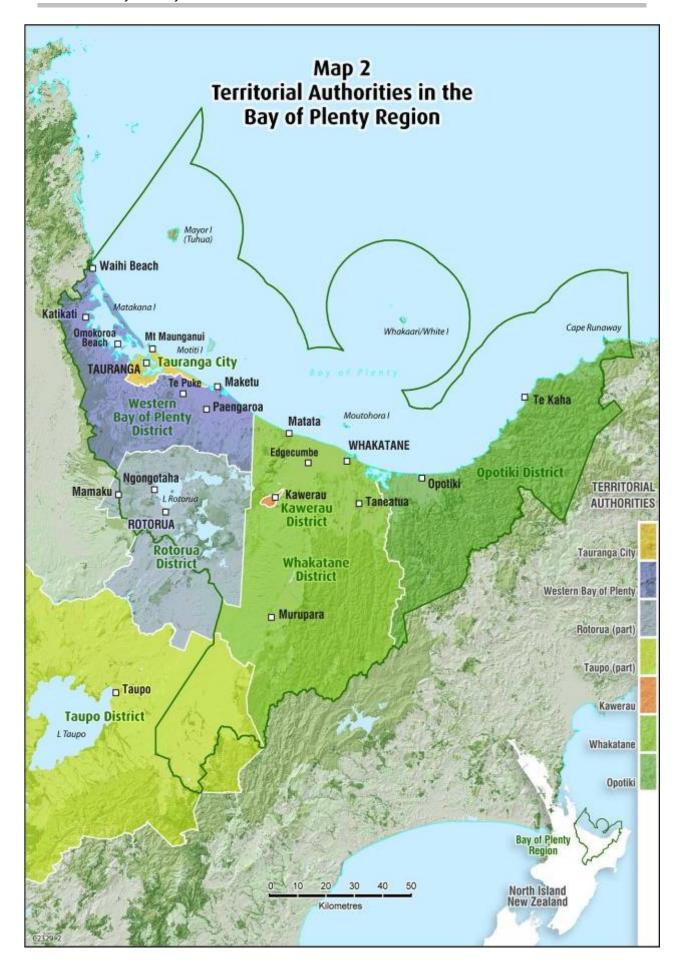
Table 2.1 Islands in the Oceanic Bay of Plenty region

| Island | Area |
|-------------------|----------------------|
| Tuhua(Mayor) | 13.1km ² |
| Motiti | 6.8 km ² |
| Whakaari/White | 3.2 km ² |
| Moutohora (Whale) | 1.7 km ² |
| Matakana | 64.5 km ² |

Other islands include Karewa, Rangiwaea, Motuhoa, Moturiki, Motuotau, Motunau, Mokoia, Rurima, Tokata, Moutoki, Ohakana, Uretara Islands and Paepae o Aotea (Volkner Rocks).

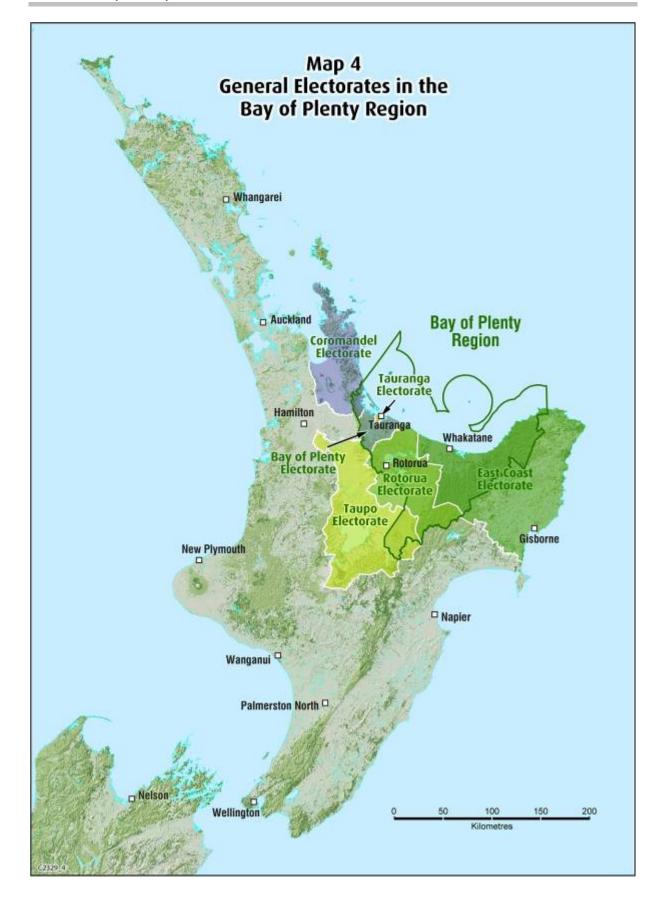
Moturiki and Motuotau Islands are within the Tauranga districts; Matakana, Rangiwaea and Motuhoa Islands are within the Western Bay of Plenty district; Ohakana Island is within Whakatane district; and Uretara Island is within Opotiki district. Mokoia Island, in Lake Rotorua, is within the Rotorua District. For those islands and islets that are not part of a district, the Minister of Local Government is the territorial authority.



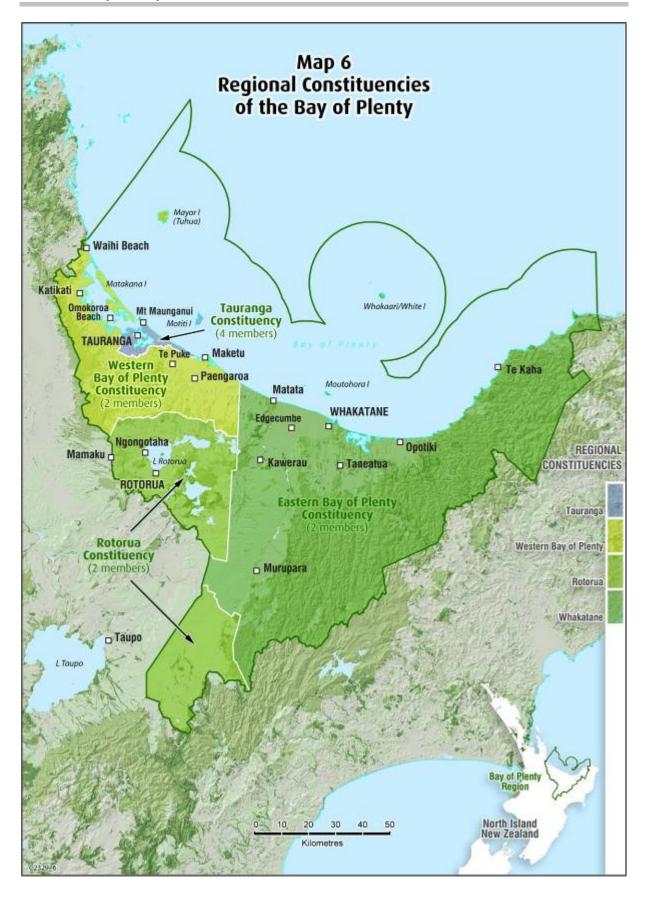


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Part 2: Demographic characteristics

2.1 **Population change**

This section on population change is focused on variations from the past to the present, and projections for the future. The initial tables and figures show resident populations and densities. The middle highlights changes that have occurred over the last 10 years. And the final part of this section looks forward to what possible changes could occur 25 years from now.

Table 3.1 shows resident populations as does Figure 3.1.

Table 3.1 Resident Populations, Bay of Plenty districts, 2006

| | Resident | |
|--------------------------------|-------------------|------------|
| | Population | Percentage |
| Western Bay of Plenty District | 42075 | 16% |
| Tauranga City | 103632 | 40% |
| Rotorua District (part) | 62286 | 24% |
| Whakatane District | 33300 | 13% |
| Kawerau District | 6924 | 3% |
| Opotiki District | 8976 | 3% |
| Taupo District (part) | 162 | <1% |
| Non-district Islands | 24 | <1% |
| Bay of Plenty | 257379 | |

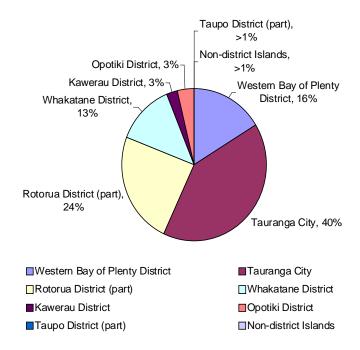


Figure 3.1 Resident populations, Bay of Plenty districts, 2006

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The following table contains information on regional areas, populations and population densities. Table 3.2 shows the figures for the whole of New Zealand and its regional councils.

Table 3.2 Population Densities², New Zealand and Regional Councils, 2006

| | Area (square kilometres) | % of Total New Zealand | Total Population | % of Total New Zealand | People per square kilometre |
|-------------------|-----------------------------|---------------------------|---------------------|---------------------------|--------------------------------|
| Auckland | 5026km ² | 2% | 1303068 | 32% | 259.3 |
| Nelson | 423km ² | 0.2% | 42888 | 1% | 101.4 |
| Wellington | 8126km ² | 3% | 448956 | 11% | 55.2 |
| Bay of Plenty | 12254km ² | 5% | 257379 | 6% | 21.0 |
| Waikato | 24480km ² | 9% | 382716 | 10% | 15.6 |
| Taranaki | 7258km ² | 3% | 104124 | 3% | 14.3 |
| Northland | 12542km ² | 5% | 148470 | 4% | 11.8 |
| Canterbury | 45228km ² | 17% | 521832 | 13% | 11.5 |
| Hawke's Bay | 14175km ² | 5% | 147783 | 4% | 10.4 |
| Manawatu-Wanganui | 22211km ² | 8% | 222423 | 6% | 10.0 |
| Otago | 31873km ² | 12% | 193803 | 5% | 6.1 |
| Gisborne | 8362km ² | 3% | 44499 | 1% | 5.3 |
| Tasman | 9656km ² | 4% | 44625 | 1% | 4.6 |
| Marlborough | 10496km ² | 4% | 42558 | 1% | 4.1 |
| Southland | 31833km ² | 12% | 90876 | 2% | 2.9 |
| West Coast | 23357km ² | 9% | 31326 | 1% | 1.3 |
| New Zealand | 267304km ² | _ | 4027947 | | 15.1 |

2

² Areas were formulated from Level 1 Digital Area Unit Information 2004 published by Statistics New Zealand and include harbours, estuaries, and islands situated within regional authority boundaries but exclude oceanic area units. The population figures were calculated from area unit data of the usually resident population from the 2006 census provided by Statistics New Zealand.

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Table 3.3 focuses on area, population and population densities for the Bay of Plenty region and districts.

Population Densities³, New Zealand, Bay of Plenty region and districts, 2006 Table 3.3

| | Area (square kilometres) | % of Total Bay of Plenty Region | Total Population | % of Total Bay of Plenty Region | People per square kilometre |
|-----------------------------------|--------------------------|------------------------------------|---------------------|---------------------------------|-----------------------------|
| Western Bay of Plenty District | 2121km ² | 17% | 42075 | 16% | 19.8 |
| Tauranga City | 168km ² | 1% | 103632 | 40% | 616.9 |
| Rotorua District (part) | 1609km² | 13% | 62286 | 24% | 38.7 |
| Whakatane District | 4457km ² | 36% | 33300 | 13% | 7.5 |
| Kawerau District | 22km ² | 0.2% | 6924 | 3% | 314.7 |
| Opotiki District | 3090km ² | 25% | 8976 | 3% | 2.9 |
| Taupo District (part) | 994km² | 8% | 162 | 0.1% | 0.2 |
| Non-district Islands ⁴ | 25km ² | 0.2% | 24 | 0.01% | 1.0 |
| Bay of Plenty | 12254km ² | _ | 257379 | | 21.0 |
| New Zealand | 267304km ² | | 4027947 | | 15.1 |

A Socio-economic Profile of the people in the Bay of Plenty region

 $^{^3}$ View previous reference. 4 Includes Mayor (Tuhuna), Motiti, White (Whakaari) and Whale (Moutohora) Islands.

Table 3.4 shows the urban populations of the Bay of Plenty region and Table 3.5 highlights the population changes in percentages that these areas have experienced over the last 10 years.

Table 3.4 Populations of Urban Areas, Bay of Plenty region, 1996, 2001, 2006

| Urban area | Resident Populations | | |
|------------------------|-------------------------|-------|--------|
| | 1996 | 2001 | 2006 |
| Tauranga | 82125 | 95673 | 108870 |
| Rotorua | 52980 | 52626 | 53814 |
| Whakatane | 17529 | 17784 | 18231 |
| Waihi Beach & Athenree | 2988 | 3027 | 2949 |
| Te Puke | 6516 | 6789 | 7074 |
| Katikati | 2661 | 2916 | 3573 |
| Edgecumbe | 1770 | 1674 | 1632 |
| Kawerau | 7842 | 6975 | 6921 |
| Murupara | 2208 | 1962 | 1842 |
| Opotiki | 4260 | 4158 | 4191 |

Table 3.5 Changes in Populations of Urban Areas, Bay of Plenty region, 1996-2006

| Urban Area | 1996- 2001 | 2001- 2006 | 1996- 2006 |
|------------------------|---------------|---------------|---------------|
| Tauranga | 16% | 13% | 32% |
| Rotorua | -1% | 2% | 1% |
| Whakatane | 1% | 2% | 4% |
| Waihi Beach & Athenree | 1% | -2% | -1% |
| Te Puke | 4% | 4% | 8% |
| Katikati | 9% | 22% | 34% |
| Edgecumbe | -5% | -2% | -7% |
| Kawerau | -11% | 0% | -11% |
| Murupara | -11% | -6% | -16% |
| Opotiki | -2% | 1% | -1% |

Regional population change from 1996-2006 is charted in Table 3.6 and Figure 3.2.

Table 3.6 New Zealand Regional Population Change, 1996-2006

| | 1996 | 2006 | Percent Change |
|-------------------|---------|---------|-------------------|
| Auckland | 1068645 | 1303068 | 22% |
| Bay of Plenty | 224367 | 257379 | 15% |
| Canterbury | 468042 | 521832 | 11% |
| Gisborne | 45786 | 44499 | -3% |
| Hawke's Bay | 142788 | 147783 | 3% |
| Manawatu-Wanganui | 228768 | 222423 | -3% |
| Marlborough | 38397 | 42558 | 11% |
| Nelson | 40278 | 42888 | 6% |
| Northland | 137052 | 148470 | 8% |
| Otago | 185085 | 193800 | 5% |
| Southland | 97101 | 90873 | -6% |
| Taranaki | 106587 | 104127 | -2% |
| Tasman | 37974 | 44625 | 18% |
| Waikato | 350124 | 382716 | 9% |
| Wellington | 414048 | 448956 | 8% |
| West Coast | 32511 | 31326 | -4% |
| New Zealand | 3618303 | 4027947 | 11% |

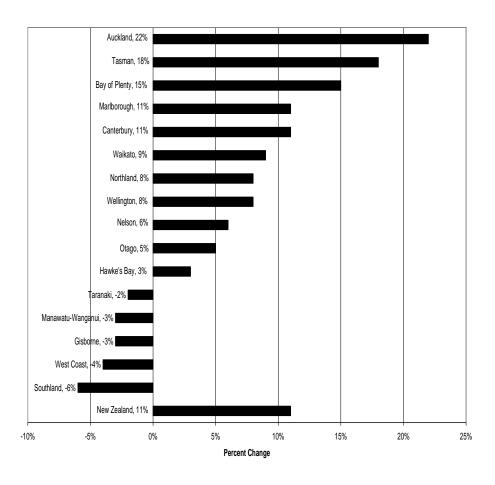


Figure 3.2 New Zealand Regional Population Change, 1996-2006

Table 3.7 highlights the change in population for the Bay of Plenty districts over the last ten years and this is then shown in Figure 3.3. Table 3.8 demonstrates this population change as percentages and includes figures for New Zealand and the Bay of Plenty region.

Table 3.7 Population Change, Bay of Plenty districts, 1996-2006

| | 1996 | 2001 | 2006 |
|-------------------------|-------|-------|--------|
| Western Bay of Plenty | | | |
| District | 34962 | 38226 | 42075 |
| Tauranga City | 77781 | 90912 | 103632 |
| Rotorua District (part) | 61032 | 61041 | 62289 |
| Whakatane District | 33177 | 32865 | 33300 |
| Kawerau District | 7827 | 6975 | 6924 |
| Opotiki District | 9321 | 9150 | 8976 |

Table 3.8 Population Change, New Zealand, Bay of Plenty region and districts, 1996-2001, 2001-2006, 1996-2006

| | 1996- 2001 | 2001- 2006 | 1996- 2006 |
|-------------------------|---------------|---------------|---------------|
| Western Bay of Plenty | | | |
| District | 9% | 10% | 20% |
| Tauranga City | 17% | 14% | 33% |
| Rotorua District (part) | 0% | 2% | 2% |
| Whakatane District | -1% | 1% | 0% |
| Kawerau District | -11% | -1% | -12% |
| Opotiki District | -2% | -2% | -4% |
| Bay of Plenty | 7% | 8% | 15% |
| New Zealand | 3% | 8% | 11% |

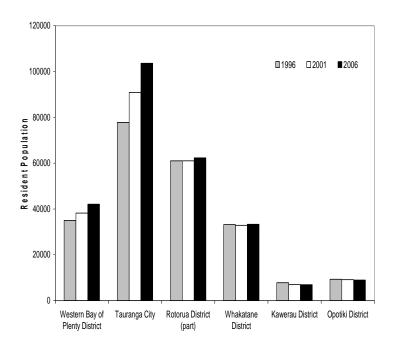


Figure 3.3 Population Change, Bay of Plenty districts, 1996-2006

Table 3.9 illustrates internal migration occurring in New Zealand involving the Bay of Plenty region. The top five contributing and receiving regions to the Bay of Plenty are then shown in Tables 3.10 and 3.11.

Table 3.9 Internal Migration, Bay of Plenty region, 1996-2006

| | 1996-2001 | 2001-2006 |
|---------------|-----------|-----------|
| In-migrants | 37785 | 38016 |
| Out-migrants | 28131 | 31311 |
| Net Migration | 4.0% | 2.6% |

Table 3.10 Top Five Contributing Regions to the Bay of Plenty region, 2001-2006

| | Number of People |
|-------------------|------------------|
| Waikato | 10800 |
| Auckland | 10446 |
| Wellington | 2751 |
| Manawatu-Wanganui | 2640 |
| Northland | 1494 |

Table 3.11 Top Five Receiving Regions from the Bay of Plenty region, 2001-2006

| | Number of People |
|-------------------|-------------------------|
| Waikato | 9126 |
| Auckland | 7026 |
| Wellington | 2622 |
| Manawatu-Wanganui | 1989 |
| Canterbury | 1791 |

Table 3.12 and Figure 3.4 are generated using Statistics New Zealand population projections. They show the projected population change for New Zealand and the North Island regions. The method projects the base population forward by calculating the effects of births, deaths, and migration within each age and sex group according to specified fertility, mortality, and net migration assumptions.

Table 3.12 Projected Population Change⁵, New Zealand and North Island regions, 2006-2031⁶

| | Percent Change |
|-------------------|----------------|
| Auckland | 41% |
| Bay of Plenty | 23% |
| Waikato | 16% |
| Wellington | 13% |
| Northland | 13% |
| Hawke's Bay | 4% |
| Manawatu-Wanganui | 3% |
| Taranaki | -3% |
| Gisborne | 0% |
| New Zealand | 22% |

5

⁵ Population at 30 June.

⁶ Within the tables, individual figures may not sum to stated totals due to rounding. The rounding of population figures is determined by the total population size of the geographic area.

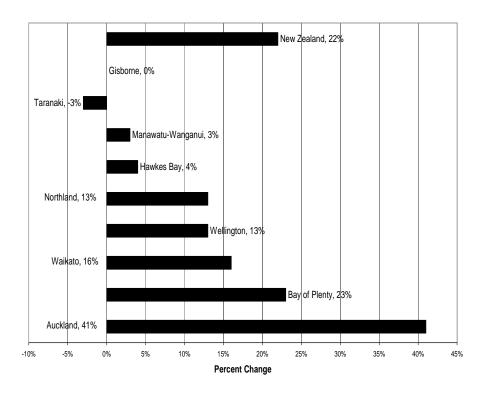


Figure 3.4 Projected Population change, New Zealand and North Island regions, 2006-2031

Table 3.13 contains the population projections for the Bay of Plenty districts.

Table 3.13 Population Projections, Bay of Plenty districts, 2006-2031

| | 2006 | 2011 | 2016 | 2021 | 2026 | 2031 |
|-------------------------|--------|--------|--------|--------|--------|--------|
| Western Bay of | | | | | | |
| Plenty District | 43300 | 46200 | 49000 | 51500 | 53800 | 55800 |
| Tauranga City | 106700 | 116800 | 126500 | 136100 | 145500 | 154800 |
| Rotorua District (part) | 68100 | 69500 | 70400 | 71000 | 71300 | 71300 |
| Whakatane District | 34500 | 35000 | 35200 | 35100 | 34800 | 34200 |
| Kawerau District | 7150 | 6960 | 6680 | 6320 | 5910 | 5390 |
| Opotiki District | 9200 | 9170 | 9100 | 9010 | 8860 | 8630 |

Figure 3.5 illustrates the population projections for the Bay of Plenty districts.

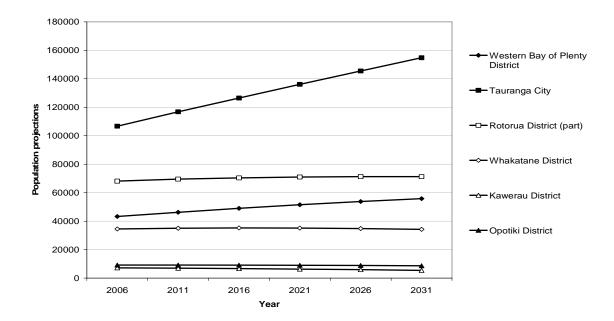


Figure 3.5 Projected Populations, Bay of Plenty districts, 2006-2031

The tables and figures on this page represent the projected change in population age structure for New Zealand and the Bay of Plenty region. This information is presented for 2006, 2016 and 2031.

Table 3.14 Projected Change in Age Structure, New Zealand and Bay of Plenty region, 2006, 2016, 2031

| | Bay of Plenty | | New Zealand | | | |
|---------------|---------------|------|-------------|------|------|------|
| | 2006 | 2016 | 2031 2 | 2006 | 2016 | 2031 |
| 0-4 Years | 7% | 7% | 6% | 7% | 7% | 6% |
| 5-14 Years | 16% | 14% | 13% | 14% | 13% | 12% |
| 15-24 Years | 12% | 12% | 11% | 14% | 14% | 13% |
| 25-44 Years | 26% | 23% | 23% | 28% | 26% | 25% |
| 45-64 Years | 25% | 26% | 23% | 24% | 26% | 23% |
| 65 Years plus | 15% | 18% | 25% | 12% | 15% | 21% |

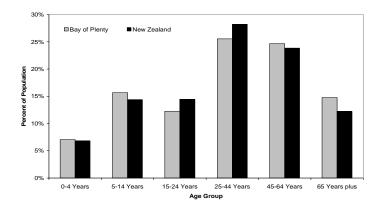


Figure 3.6 Projected Change in Age Structure, New Zealand and Bay of Plenty region, 2006

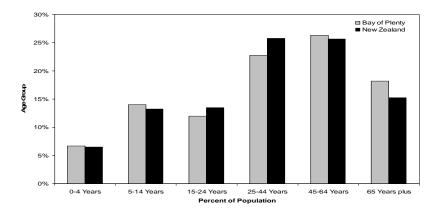


Figure 3.7 Projected Change in Age Structure, New Zealand and Bay of Plenty region, 2016

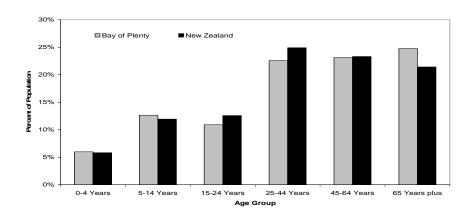


Figure 3.8 Projected Change in Age Structure, New Zealand and Bay of Plenty region, 2031

The following tables and figures represent the projected change in age structure for each of the Bay of Plenty districts. The tables and their corresponding figures show statistics for 2006 (Table 3.15, Figure 3.9), 2016 (Table 3.16, Figure 3.10) and 2031 (Table 3.16, Figure 3.11).

Table 3.15 Projected change in Age Structure, Bay of Plenty districts, 2006

| | Western Bay of Plenty District | Tauranga City | Rotorua District (whole) | Whakatane District | Kawerau District | Opotiki District |
|-------------|---|------------------|--------------------------------|-----------------------|---------------------|---------------------|
| 0-4 Years | 6% | 7% | 8% | 8% | 9% | 8% |
| 5-14 Years | 15% | 14% | 17% | 18% | 19% | 19% |
| 15-24 Years | 11% | 12% | 13% | 12% | 12% | 12% |
| 25-44 Years | 23% | 26% | 27% | 25% | 25% | 23% |
| 45-64 Years | 29% | 24% | 23% | 25% | 23% | 25% |
| 65+ Years | 16% | 17% | 11% | 12% | 12% | 14% |

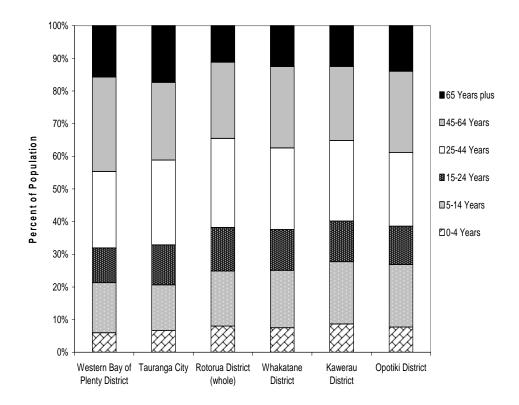


Figure 3.9 Projected Change in Age Structure, Bay of Plenty districts, 2006

Table 3.16 Projected Change in Age Structure, Bay of Plenty districts, 2016

| | Western Bay of Plenty District | Tauranga City | Rotorua District (whole) | Whakatane District | Kawera u District | Opotiki District |
|-------------|--------------------------------------|------------------|--------------------------------|-----------------------|-------------------------|---------------------|
| 0-4 Years | 6% | 6% | 8% | 7% | 8% | 7% |
| 5-14 Years | 13% | 13% | 16% | 15% | 16% | 16% |
| 15-24 Years | 10% | 12% | 13% | 12% | 13% | 13% |
| 25-44 Years | 20% | 24% | 24% | 21% | 21% | 19% |
| 45-64 Years | 31% | 25% | 26% | 27% | 23% | 27% |
| 65+ Years | 20% | 19% | 14% | 17% | 19% | 18% |

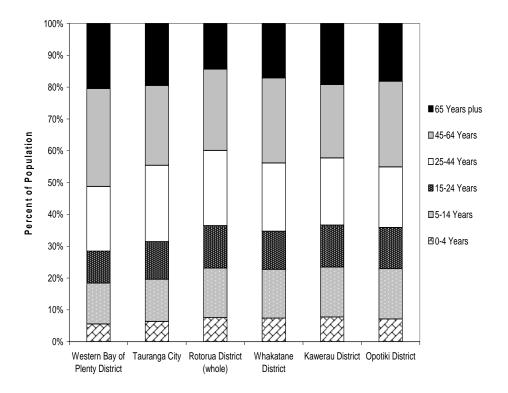


Figure 3.10 Projected Change in Age Structure, Bay of Plenty districts, 2016

Table 3.16 Projected Change in Age Structure, Bay of Plenty districts, 2031

| | Western Bay of Plenty District | Tauranga City | Rotorua District (whole) | Whakatane District | Kawera u District | Opotiki District |
|-------------|--------------------------------------|------------------|--------------------------------|-----------------------|-------------------------|---------------------|
| 0-4 Years | 5% | 6% | 7% | 6% | 6% | 6% |
| 5-14 Years | 12% | 12% | 14% | 14% | 14% | 15% |
| 15-24 Years | 8% | 11% | 12% | 10% | 9% | 9% |
| 25-44 Years | 20% | 24% | 23% | 21% | 23% | 21% |
| 45-64 Years | 26% | 23% | 22% | 22% | 19% | 21% |
| 65+ Years | 29% | 24% | 22% | 27% | 29% | 27% |

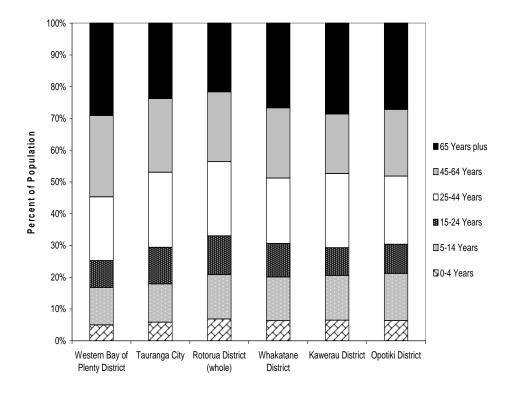


Figure 3.11 Projected Change in Age Structure, Bay of Plenty districts, 2031

2.2 **Population characteristics**

This section examines the characteristics of the Bay of Plenty region and includes information on ethnicity, age and sex.

Table 4.1 and Figure 4.1 highlight the ethnic composition of New Zealand, Bay of Plenty region and districts.

Table 4.1 Ethnic Composition, New Zealand, Bay of Plenty region and districts, 2006

| | European | Maori | Other ⁷ |
|--------------------------------|----------|-------|--------------------|
| Western Bay of Plenty District | 69% | 16% | 18% |
| Tauranga City | 72% | 16% | 19% |
| Rotorua District (part) | 57% | 35% | 19% |
| Whakatane District | 55% | 40% | 13% |
| Kawerau District | 45% | 59% | 11% |
| Opotiki District | 44% | 54% | 11% |
| Bay of Plenty | 64% | 26% | 18% |
| New Zealand | 65% | 14% | 27% |

⁷ The high numbers of people who selected 'Other' as their ethnicity in 2006 is partly due to a change which placed 'New Zealander' as an option under the category of 'Other' rather than under its 2001 category of 'European'.

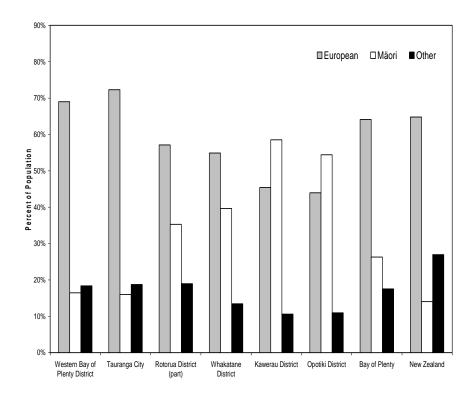


Figure 4.1 Ethnic Composition, New Zealand, Bay of Plenty region and districts, 2006

The languages spoken in the Bay of Plenty reflect its bi-cultural characteristics; this is shown in Table 4.2.

Table 4.2 Languages Spoken, New Zealand and Bay of Plenty region, 2006

| | New Zealand | Bay of Plenty |
|-------------------|-------------|---------------|
| Maori Only | 1% | 1.5% |
| English Only | 75% | 69% |
| Maori and English | 18% | 24% |

The 2006 Census sought information relating to Maori ancestry and iwi affiliation. Depending on definition there are over 36 iwi in the Bay of Plenty (including the rohe that straddle the regional boundary). The figures in Table 4.3 include all of the people who stated each iwi, whether as their only iwi or as one of several. Where a person reported more than one iwi, they have been counted in each applicable group.

Table 4.3 Iwi Populations in the Bay of Plenty region, 2006

| lwi | Population with Maori Ancestry | % of Population with Maori Ancestry |
|---|--------------------------------------|-------------------------------------|
| Te Arawa ⁸ | 13503 | 18% |
| Tuhoe | 10860 | 15% |
| Ngati Awa | 6780 | 9% |
| Ngati Tuwharetoa | 5151 | 7% |
| Ngaiterangi | 5079 | 7% |
| Whakatohea | 5049 | 7% |
| Te Whanau-a-Apanui | 4257 | 6% |
| Ngati Ranginui | 4071 | 6% |
| Ngati Manawa | 963 | 1% |
| Ngai Tai | 900 | 1% |
| Ngati Pukenga | 726 | 1% |
| Ngati Whare | 654 | 1% |
| Other Bay of Plenty Iwi (not | | |
| specified) | 45 | 0.1% |
| Non-Bay of Plenty Iwi | 43101 | 59% |
| Don't Know | 7989 | 11% |
| Not Elsewhere Included ⁹ | 3003 | 4% |
| Total People identifying as having Maori Ancestry | 73542 | 29% |

Age structure is represented in Table 4.4 and Figure 4.2, and Table 4.5 and Figure 4.3. An ageing population is reflected across national, regional and district statistics.

Age Structure, New Zealand and Bay of Plenty region, 2006 Table 4.4

| | 0-4 Years | 5-14 Years | 15-24 Years | 25-44 Years | 45-64 Years | 65 Years plus |
|---------------|--------------|---------------|----------------|----------------|----------------|------------------|
| Bay of Plenty | 7% | 16% | 12% | 26% | 25% | 15% |
| New Zealand | 7% | 15% | 14% | 28% | 24% | 12% |

⁸ Includes Te Arawa/Taupo (Rotorua/Taupo) region, not further defined, Ngati Pikiao, Ngati Rangiteaorere, Ngati Rangitihi, Ngati Rangiwewehi, Tapuika, Tarawhai, Tuhourangi, Uenuku-Kopaka, Waitaha, Ngati Whakaue, Ngati Tahu-Ngati Whaoa.

⁹ Includes "Refused to Answer", Response Unidentifiable" and "Not Stated".

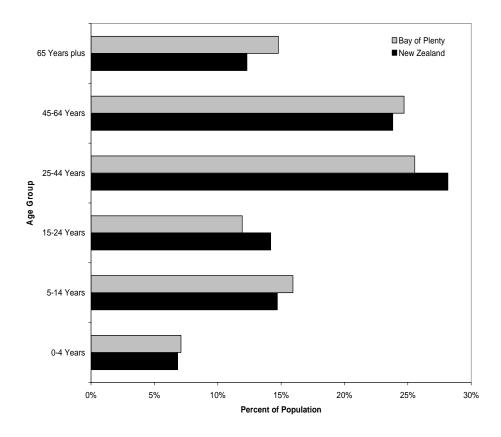


Figure 4.2 Age Structure, New Zealand and Bay of Plenty region, 2006

Table 4.5 Age Structure, Bay of Plenty districts, 2006

| | 0-4 Years | 5-14 Years | 15-24 Years | 25-44 Years | 45-64 Years | 65 Years plus |
|-------------------------|--------------|---------------|----------------|----------------|----------------|---------------------|
| Western Bay of Plenty | | | | | | |
| District | 6% | 16% | 10% | 24% | 29% | 16% |
| Tauranga City | 7% | 14% | 12% | 26% | 24% | 17% |
| Rotorua District (part) | 8% | 17% | 13% | 27% | 23% | 11% |
| Whakatane District | 8% | 18% | 12% | 25% | 25% | 13% |
| Kawerau District | 9% | 19% | 12% | 25% | 23% | 12% |
| Opotiki District | 8% | 19% | 11% | 22% | 25% | 14% |

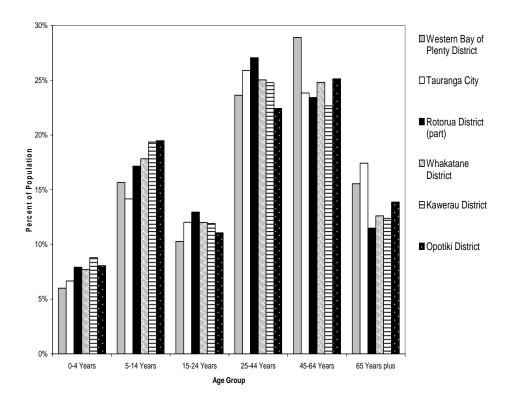


Figure 4.3 Age Structure, Bay of Plenty districts, 2006

Age and ethnicity is represented on this page in Table 4.7 and Figure 4.4.

Table 4.7 Ethnic Age Composition, Bay of Plenty region, 2006

| | 0-9 Years | 10-19 Years | 20-29 Years | 30-49 Years | 50-69 Years | 70+ Years |
|----------|--------------|----------------|----------------|----------------|----------------|--------------|
| European | 14% | 15% | 9% | 27% | 23% | 13% |
| Maori | 23% | 22% | 13% | 26% | 13% | 3% |
| Other | 16% | 14% | 10% | 31% | 24% | 6% |

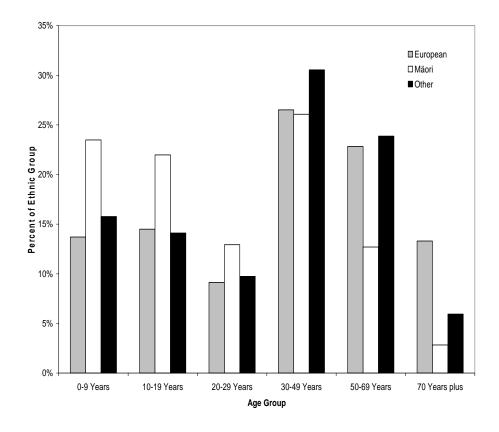


Figure 4.4 Ethnic Age Composition, Bay of Plenty region, 2006

This page contains information relating to median ages, Table 4.6, which is a useful summary measure of age-composition.

Changes in age composition for New Zealand and the Bay of Plenty region are also shown in Table 4.8 and Figure 4.5.

Table 4.6 Median Age, New Zealand, Bay of Plenty region and districts, 2006

| | Median Age |
|--------------------------------|------------|
| Western Bay of Plenty District | 42 |
| Tauranga City | 39 |
| Rotorua District (whole) | 35 |
| Whakatane District | 36 |
| Kawerau District | 34 |
| Opotiki District | 37 |
| Bay of Plenty | 38 |
| New Zealand | 36 |

Table 4.8 Changes in Age Composition, New Zealand and Bay of Plenty region, 2001-2006

| | New Zealand | Bay of Plenty |
|---------------|-------------|---------------|
| 0-4 Years | 2% | 0% |
| 5-14 Years | 3% | 2% |
| 15-24 Years | 13% | 9% |
| 25-44 Years | 2% | 0% |
| 45-64 Years | 16% | 18% |
| 65 Years plus | 10% | 14% |

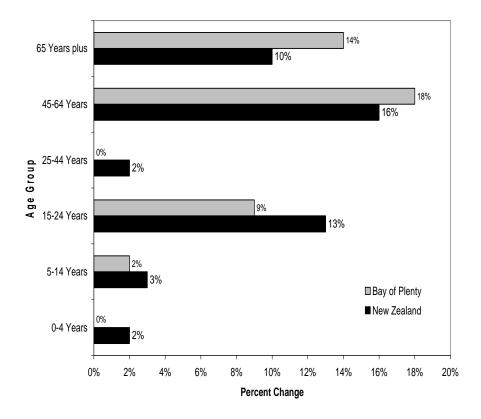


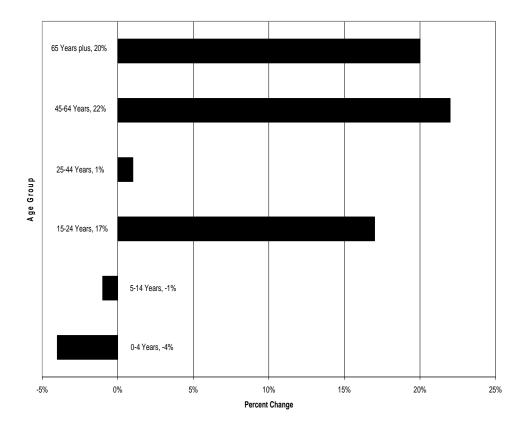
Figure 4.5 Changes in Age Composition, New Zealand and Bay of Plenty region, 2001-2006

The following table and figures highlight the change in age composition for the Bay of Plenty districts.

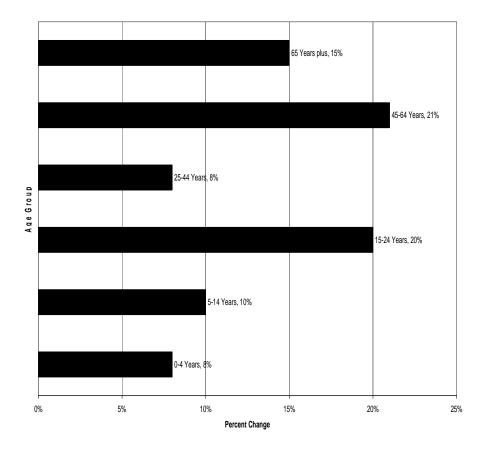
Table 4.9 Changes in Age Composition, Bay of Plenty districts, 2001-2006

| | Western Bay of Plenty District | Tauranga City | Rotorua District (part) | Whakatane District | Kawera u District | Opotiki District |
|----------------|---|------------------|-------------------------------|-----------------------|-------------------------|---------------------|
| 0-4 Years | -4% | 8% | -3% | -7% | -8% | -4% |
| 5-14 Years | -1% | 10% | 2% | -4% | -12% | -6% |
| 15-24 Years | 17% | 20% | -1% | 1% | -2% | -2% |
| 25-44 Years | 1% | 8% | -5% | -8% | -9% | -14% |
| 45-64 Years | 22% | 21% | 13% | 15% | 11% | 10% |
| 65+ Years | 20% | 15% | 7% | 12% | 33% | 9% |

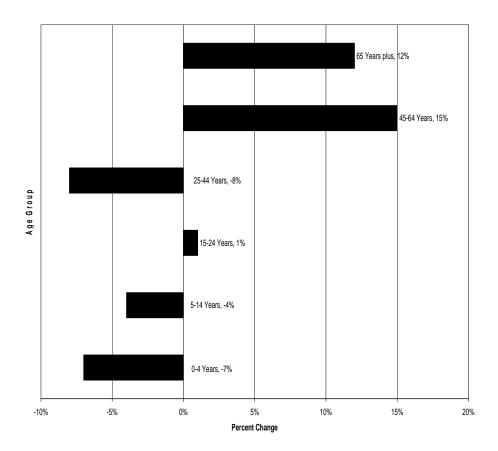
Western Bay of Plenty



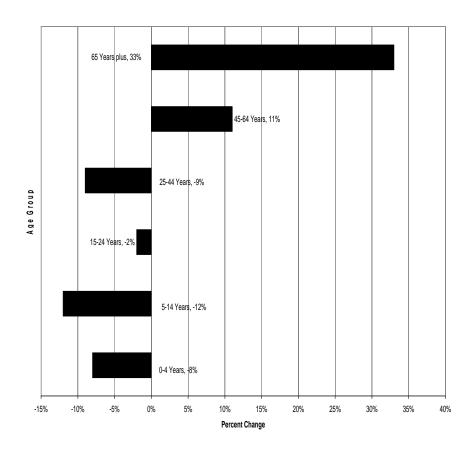
Tauranga City



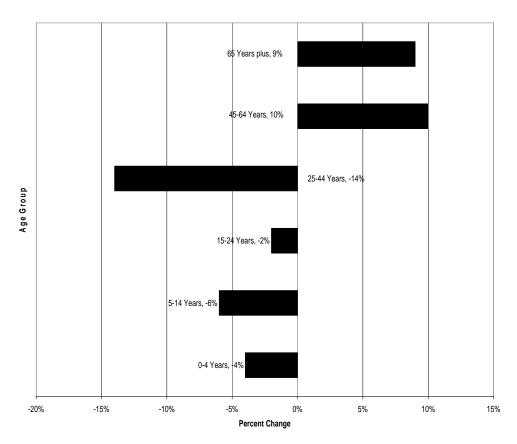
Whakatane district



Kawerau district



Opotiki district



Rotorua district (part)

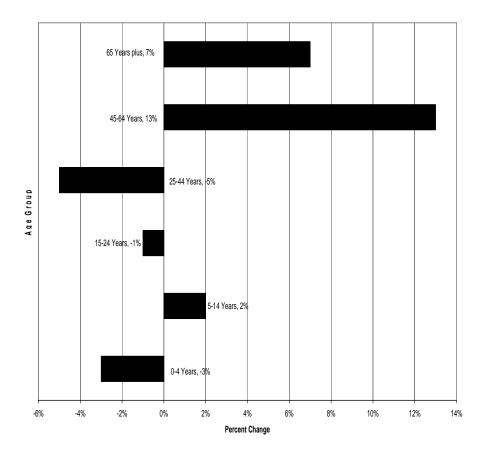


Figure 4.6 Changes in Age Composition, Bay of Plenty districts, 2001-2006

Table 4.10 shows the distribution of males and females in the Bay of Plenty region and districts, as well as New Zealand, in 1996, 2001 and 2006. Age by sex is demonstrated for the Bay of Plenty region over these same years in Table 4.11 and Figure 4.7.

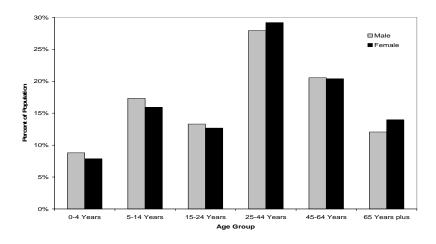
Table 4.10 Sex Distribution, New Zealand and Bay of Plenty region and districts, 1996-2006

| | 1996 | | 2 | 001 | 2006 | | |
|--------------------|------|---------------|------|--------|------|---------------|--|
| | Male | Female | Male | Female | Male | Female | |
| Western Bay of | | | | | | | |
| Plenty District | 50% | 50% | 50% | 50% | 49% | 51% | |
| Tauranga City | 48% | 52% | 48% | 52% | 48% | 52% | |
| Rotorua District | | | | | | | |
| (part) | 49% | 51% | 48% | 52% | 48% | 52% | |
| Whakatane District | 50% | 50% | 49% | 51% | 49% | 51% | |
| Kawerau District | 50% | 50% | 50% | 50% | 50% | 50% | |
| Opotiki District | 50% | 50% | 49% | 51% | 50% | 50% | |
| Bay of Plenty | 49% | 51% | 48% | 52% | 48% | 52% | |
| New Zealand | 49% | 51% | 49% | 51% | 49% | 51% | |

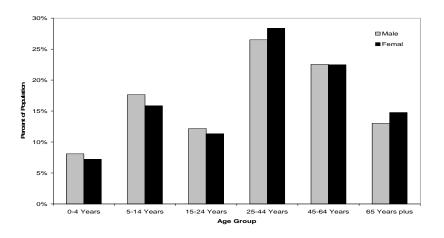
Table 4.11 Age by Sex, Bay of Plenty region, 1996-2006

| | | 0-4 Years | 5-14 Years | 15-24 Years | 25-44 Years | 45-64 Years | 65 Years plus |
|------|--------|--------------|---------------|----------------|----------------|----------------|------------------|
| 1996 | Male | 9% | 17% | 13% | 28% | 21% | 12% |
| 1990 | Female | 8% | 16% | 13% | 29% | 20% | 14% |
| 2001 | Male | 8% | 18% | 12% | 27% | 23% | 13% |
| 2001 | Female | 7% | 16% | 11% | 28% | 22% | 15% |
| 2006 | Male | 8% | 17% | 12% | 25% | 25% | 14% |
| 2000 | Female | 7% | 15% | 11% | 26% | 25% | 16% |

1996



2001



2006

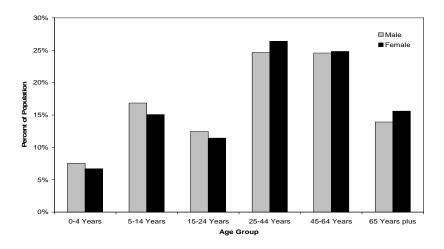


Figure 4.7 Age by Sex, Bay of Plenty region, 1996-2006

Part 3: Socio-economic characteristics

3.1 Households and families

This section looks at information surrounding dwellings, households and families. Table 5.1 and Figure 5.1 show the total number of private dwellings for the districts within the Bay of Plenty region on the last three Census nights. Private dwellings include separate and joined houses and flats, baches, cribs or huts, caravans, cabins or tents in a motor camp and others, such as yachts. Table 5.2 shows the increase of private dwellings as percentages for New Zealand and the Bay of Plenty region and districts.

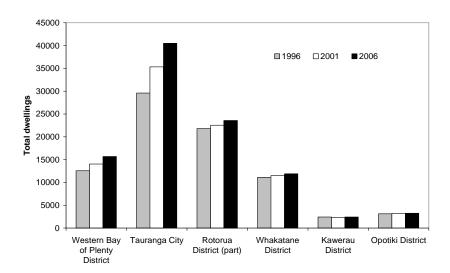


Figure 5.1 Total number of Private Dwellings, Bay of Plenty districts, 1996, 2001, 2006

Table 5.1 Total number of Private Dwellings, Bay of Plenty districts, 1996, 2001, 2006

| | 1996 | 2001 | 2006 |
|-------------------------|-------|-------|-------|
| Western Bay of Plenty | | | |
| District | 12558 | 14040 | 15690 |
| Tauranga City | 29583 | 35319 | 40494 |
| Rotorua District (part) | 21810 | 22554 | 23580 |
| Whakatane District | 11115 | 11487 | 11886 |
| Kawerau District | 2430 | 2337 | 2418 |
| Opotiki District | 3129 | 3189 | 3246 |

| Table 5.2 | Increase in Private Dwellings, New Zealand and Bay of Plenty region |
|-----------|---|
| | and districts, 1996-2006 |

| | 1996-2001 | 2001-2006 | 1996-2006 |
|------------------|-----------|-----------|-----------|
| Western Bay of | | | |
| Plenty District | 12% | 12% | 25% |
| Tauranga City | 19% | 15% | 37% |
| Rotorua District | | | |
| (part) | 3% | 5% | 8% |
| Whakatane | | | |
| District | 3% | 3% | 7% |
| Kawerau District | -4% | 3% | -1% |
| Opotiki District | 2% | 2% | 4% |
| Bay of Plenty | 10% | 9% | 21% |
| New Zealand | 7% | 8% | 15% |

Table 5.3 examines the percentages of occupied dwellings which includes private dwellings (as described previously) and non-private dwellings. Non-private dwellings include hotels, motels or guest houses, boarding houses, homes for the elderly and others such as hostels, motor camps or hospitals. Table 5.4 depicts the tenure of private dwellings and Table 5.5 illustrates the average weekly rent for private dwellings and its marked increase as a percentage sine 1996.

Table 5.3 Occupies Dwellings, New Zealand, Bay of Plenty region and districts 2006

| | Separate House | Other Private Dwelling | Occupied Private Dwelling | Occupied Non- private Dwelling | Total Occupied Dwellings |
|-----------------------------------|-------------------|------------------------------|---------------------------------|---|--------------------------------|
| Western Bay of Plenty District | 85% | 15% | 99.7% | 0.3% | 15741 |
| Tauranga City | 77% | 23% | 99.7% | 0.3% | 40635 |
| Rotorua District (part) | 78% | 22% | 99.2% | 0.8% | 23763 |
| Whakatane District | 81% | 19% | 99.6% | 0.4% | 11931 |
| Kawerau District | 86% | 13% | 99.8% | 0.1% | 2424 |
| Opotiki District | 81% | 20% | 99.3% | 0.6% | 3270 |
| Bay of Plenty | 79% | 21% | 99.5% | 0.5% | 96615 |
| New Zealand | 77% | 23% | 99.5% | 0.5% | 1478709 |

Table 5.4 Tenure of Private Dwellings, New Zealand, Bay of Plenty region and districts, 2006

| | Dwelling Owned or Partly Owned | Dwelling Not Owned by Usual Resident(s) | Not Specified |
|-----------------------------------|-----------------------------------|---|---------------|
| Western Bay of Plenty District | 49% | 25% | 7% |
| Tauranga City | 48% | 31% | 6% |
| Rotorua District (part) | 51% | 33% | 7% |
| Whakatane District | 51% | 31% | 7% |
| Kawerau District | 58% | 32% | 6% |
| Opotiki District | 48% | 34% | 9% |
| Bay of Plenty | 50% | 31% | 7% |
| New Zealand | 51% | 31% | 6% |

Table 5.5 Average Weekly Rent for Private Dwellings, New Zealand, Bay of Plenty region and districts, 2006

| | 1996 | 2001 | 2006 | % change 1996-2001 | %change 2001-2006 |
|--------------------------------|-------|-------|-------|-----------------------|----------------------|
| Western Bay of Plenty District | \$123 | \$144 | \$186 | 15% | 23% |
| Tauranga City | \$161 | \$175 | \$231 | 8% | 24% |
| Rotorua District (part) | \$141 | \$151 | \$184 | 7% | 18% |
| Whakatane District | \$123 | \$133 | \$179 | 8% | 26% |
| Kawerau District | \$128 | \$119 | \$138 | -8% | 14% |
| Opotiki District | \$110 | \$115 | \$131 | 4% | 12% |
| Bay of Plenty | \$143 | \$156 | \$202 | 8% | 23% |
| New Zealand | \$161 | \$174 | \$225 | 7% | 23% |

Table 5.7 shows the distribution of households across the districts.

Table 5.7 Housing Distribution, New Zealand, Bay of Plenty region and district, 2006

| | Total Number of Households | Percentage of Households |
|--------------------------------|----------------------------|--------------------------|
| Western Bay of Plenty District | 15438 | 16% |
| Tauranga City | 39951 | 42% |
| Rotorua District (part) | 23223 | 25% |
| Whakatane District | 11706 | 12% |
| Kawerau District | 2397 | 3% |
| Opotiki District | 3189 | 3% |
| Bay of Plenty | 94773 | 7% |
| New Zealand | 1454175 | |

Table 5.8 portrays the size of the households and compares the figures as percentages of the two most recent Census counts.

Table 5.8 Household Size, New Zealand, Bay of Plenty region and districts, 2001, 2006

| | One Resident | Two Residents | 2001 Three Residents | Four Residents | Five or More | One Resident | Two Residents | 2006 Three Residents | Four Residents | Five or More |
|-----------------------------------|--------------|------------------|----------------------------|-------------------|-----------------|-----------------|------------------|----------------------------|-------------------|-----------------|
| Western Bay of Plenty District | 20% | 39% | 15% | 14% | 12% | 20% | 40% | 15% | 14% | 11% |
| Tauranga City | 24% | 39% | 15% | 13% | 9% | 24% | 38% | 16% | 14% | 9% |
| Rotorua District (part) | 21% | 33% | 18% | 15% | 13% | 22% | 33% | 17% | 15% | 13% |
| Whakatane District | 21% | 33% | 17% | 14% | 15% | 21% | 35% | 16% | 14% | 14% |
| Kawerau District | 20% | 31% | 17% | 16% | 16% | 23% | 33% | 16% | 13% | 15% |
| Opotiki District | 24% | 33% | 15% | 13% | 16% | 24% | 34% | 16% | 12% | 14% |
| Bay of Plenty | 22% | 36% | 16% | 14% | 12% | 22% | 37% | 16% | 14% | 11% |
| New Zealand | 23% | 34% | 17% | 15% | 12% | 23% | 34% | 17% | 15% | 12% |

Table 5.9 contains the figures for the number of bedrooms within each household.

Table 5.9 Number of Bedrooms, New Zealand, Bay of Plenty region and districts, 2006

| | One Bedroom | Two Bedrooms | Three Bedrooms | Four Bedrooms | Five or More |
|-------------------------|----------------|-----------------|-------------------|------------------|-----------------|
| Western Bay of Plenty | | | | | |
| District | 6% | 14% | 43% | 24% | 8% |
| Tauranga City | 4% | 18% | 50% | 20% | 4% |
| Rotorua District (part) | 5% | 16% | 47% | 20% | 6% |
| Whakatane District | 5% | 16% | 47% | 21% | 5% |
| Kawerau District | 3% | 9% | 65% | 17% | 3% |
| Opotiki District | 7% | 19% | 44% | 17% | 5% |
| Bay of Plenty | 5% | 17% | 48% | 20% | 5% |
| New Zealand | 6% | 19% | 44% | 21% | 6% |

Table 5.10 and Figure 5.3 highlight family types. When constructing the family type categories, Statistics New Zealand extracts the One-Parent, Two-Parent and Couple-Only family types from data relating to households. As a result, information on the complex living arrangements of multiple family households is lost. For this reason it is also important to examine the household composition data that is provided in Table 5.11 and Figure 5.4

Table 5.10 Family Type, New Zealand, Bay of Plenty region and districts, 2006

| | Couple Only | Two Parent Family | One Parent Family |
|-------------------------|----------------|----------------------|----------------------|
| Western Bay of Plenty | | | |
| District | 46% | 40% | 14% |
| Tauranga City | 46% | 36% | 18% |
| Rotorua District (part) | 36% | 40% | 24% |
| Whakatane District | 38% | 39% | 23% |
| Kawerau District | 35% | 34% | 30% |
| Opotiki District | 36% | 36% | 28% |
| Bay of Plenty | 42% | 38% | 20% |
| New Zealand | 40% | 42% | 18% |

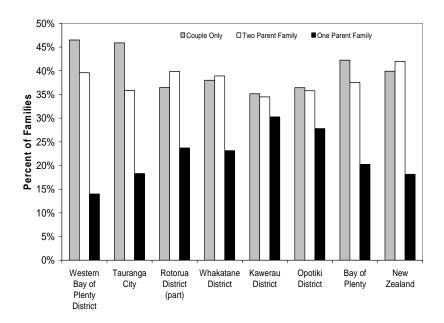


Figure 5.3 Family Type, New Zealand, Bay of Plenty region and districts, 2006

Table 5.11 and Figure 5.4 include information on household composition and use the broad categories as determined by Statistics New Zealand: One-family household (includes both the One-Parent and Two-Parent family types); Two or more families; Non-family household (e.g. flatting); and the One-person household.

Table 5.11 Household Composition, New Zealand, Bay of Plenty region and districts, 2006

| | One-Person Household | One-Family Household | Two or More Families | Other Multiperson Household | Household Not Classified |
|--------------------------------|-------------------------|-------------------------|-------------------------|-----------------------------------|--------------------------------|
| Western Bay of Plenty District | 20% | 73% | 2% | 3% | 3% |
| Tauranga City | 24% | 69% | 2% | 4% | 1% |
| Rotorua District (part) | 22% | 68% | 3% | 4% | 2% |
| Whakatane District | 21% | 70% | 3% | 3% | 2% |
| Kawerau District | 23% | 69% | 4% | 3% | 1% |
| Opotiki District | 24% | 67% | 3% | 3% | 3% |
| Bay of Plenty | 22% | 69% | 3% | 4% | 2% |
| New Zealand | 23% | 68% | 3% | 5% | 2% |

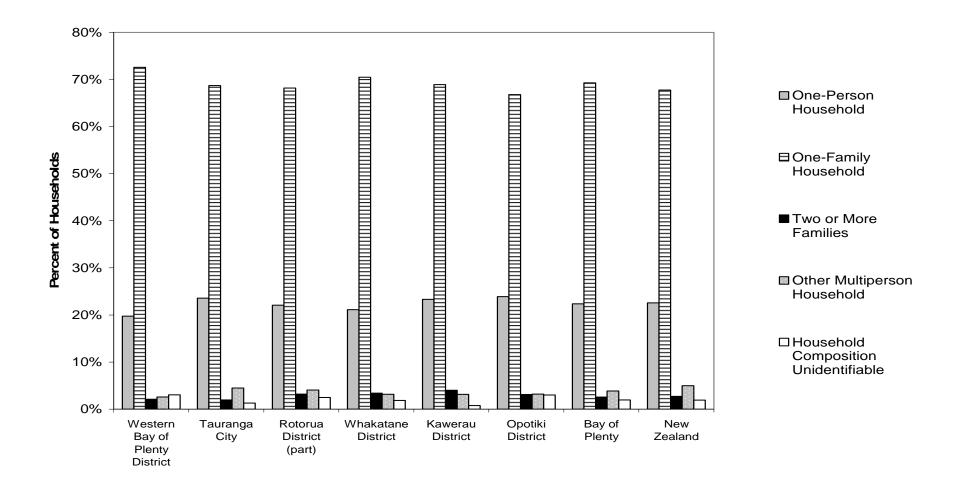


Figure 5.4 Household Composition, New Zealand, Bay of Plenty region and districts, 2006

Tables 5.12 to 5.14 are concerned with the accessibility of certain objects which often determine ideas surrounding standards of living (being availability of motor vehicles; access to telecommunications, and main means of home heating).

Table 5.12 Proportion of Households without a Motor Vehicle for Private Use, New Zealand, Bay of Plenty region and districts, 2001, 2006

| | No Access to Private Motor Vehicle 2001 2006 | | | | | |
|--------------------------------|--|-----|--|--|--|--|
| Western Bay of Plenty District | 5% | 4% | | | | |
| Tauranga City | 8% | 6% | | | | |
| Rotorua District (part) | 10% | 8% | | | | |
| Whakatane District | 11% | 8% | | | | |
| Kawerau District | 13% | 12% | | | | |
| Opotiki District | 14% | 10% | | | | |
| Bay of Plenty | 9% | 7% | | | | |
| New Zealand | 10% | 8% | | | | |

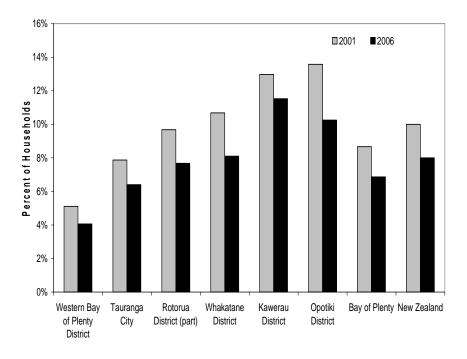


Figure 5.5 Proportion of Households without a Motor Vehicle for Private Use, New Zealand, Bay of Plenty regions and districts, 2001, 2006

Table 5.13 Access to Telecommunications, New Zealand, Bay of Plenty region and districts, 2006

| | No Access to Telecommunications | Access to Telephone | Access to Cellphone | Access to Fax | Access to Internet |
|-------------------------|------------------------------------|------------------------|---------------------|---------------|-----------------------|
| Western Bay of Plenty | | | | | |
| District | 2% | 86% | 73% | 37% | 57% |
| Tauranga City | 2% | 89% | 73% | 26% | 58% |
| Rotorua District (part) | 3% | 82% | 71% | 22% | 51% |
| Whakatane District | 5% | 83% | 65% | 24% | 50% |
| Kawerau District | 7% | 77% | 69% | 16% | 42% |
| Opotiki District | 9% | 73% | 51% | 22% | 36% |
| Bay of Plenty | 3% | 85% | 71% | 26% | 54% |
| New Zealand | 2% | 88% | 71% | 25% | 58% |

Table 5.14 Main Means of Home Heating, New Zealand, Bay of Plenty region and districts, 2006

| | Electricity | Mains Gas | Bottled Gas | Wood | Coal | Solar Power | No Fuels Used | Other Fuel(s) | Not Specified |
|-------------------------|-------------|--------------|----------------|------|------|----------------|---------------------|------------------|------------------|
| Western Bay of Plenty | 3 ' | | | | | | | ` ′ | • |
| District | 56% | 4% | 35% | 52% | 3% | 3% | 2% | 2% | 5% |
| Tauranga City | 64% | 13% | 38% | 25% | 2% | 1% | 3% | 1% | 3% |
| Rotorua District (part) | 58% | 13% | 29% | 52% | 4% | 1% | 1% | 5% | 5% |
| Whakatane District | 59% | 3% | 33% | 53% | 3% | 2% | 2% | 1% | 5% |
| Kawerau District | 54% | 9% | 31% | 63% | 3% | 1% | 1% | 2% | 3% |
| Opotiki District | 49% | 3% | 35% | 54% | 3% | 2% | 4% | 2% | 7% |
| Bay of Plenty | 60% | 10% | 35% | 41% | 3% | 2% | 2% | 2% | 5% |
| New Zealand | 71% | 13% | 26% | 39% | 7% | 1% | 2% | 2% | 4% |

3.2 **Employment and unemployment**

This section focuses on the Bay of Plenty labour force, employment and industry. The labour force consists of people aged 15 years and over who regularly work for one or more hours per week for financial gain, or as an unpaid worker in a family business. Also included are people who are unemployed and actively seeking either full-time or part-time work. Table 6.1 details the status of this labour force. Table 6.2 shows whether people in the labour force were employers, employees, self employed or unpaid workers. The total weekly hours worked by the labour force are demonstrated in Table 6.3.

Table 6.1 Labour Force Status, Population Aged 15 Years and Over, New Zealand, Bay of Plenty region and districts, 2006

| | Employed Full-time | Employed Part-time | Unemployed | Not in Labour Force | Data not available |
|-----------------------------------|-----------------------|-----------------------|------------|---------------------------|--------------------|
| Western Bay of Plenty District | 46% | 15% | 3% | 31% | 5% |
| Tauranga City | 45% | 14% | 3% | 35% | 2% |
| Rotorua District (part) | 48% | 14% | 5% | 30% | 4% |
| Whakatane District | 44% | 14% | 5% | 33% | 4% |
| Kawerau District | 36% | 12% | 8% | 40% | 4% |
| Opotiki District | 38% | 14% | 6% | 37% | 6% |
| Bay of Plenty | 45% | 14% | 4% | 33% | 4% |
| New Zealand | 48% | 14% | 3% | 30% | 3% |

Table 6.2 Gainfully Employed Labour Force Aged 15 Years and Over, New Zealand, Bay of Plenty region and districts, 2006

| | Paid Employee | Employer | Self- Employed | Unpaid Worker | Not Specified |
|-----------------------------------|------------------|----------|-------------------|------------------|------------------|
| Western Bay of Plenty District | 61% | 12% | 19% | 5% | 3% |
| Tauranga City | 75% | 8% | 13% | 1% | 2% |
| Rotorua District (whole) | 77% | 8% | 10% | 2% | 3% |
| Whakatane District | 73% | 9% | 11% | 3% | 4% |
| Kawerau District | 86% | 3% | 4% | 1% | 5% |
| Opotiki District | 65% | 10% | 14% | 6% | 6% |
| Bay of Plenty | 73% | 9% | 13% | 2% | 3% |
| New Zealand | 76% | 7% | 12% | 2% | 3% |

Table 6.3 Total Weekly Hours Worked, Labour Force Aged 15 Years and Over, New Zealand, Bay of Plenty region and districts, 2006

| | Less than 20 Hours | 20-29 Hours | 30-39 Hours | 40-49 Hours | 50-59 Hours | 60 Hours or More |
|-----------------------------------|-----------------------|----------------|----------------|----------------|----------------|---------------------|
| Western Bay of Plenty District | 12% | 10% | 12% | 32% | 13% | 13% |
| Tauranga City | 13% | 9% | 13% | 39% | 11% | 8% |
| Rotorua District (whole) | 11% | 9% | 12% | 38% | 11% | 11% |
| Whakatane District | 13% | 9% | 12% | 37% | 9% | 11% |
| Kawerau District | 13% | 8% | 11% | 42% | 7% | 7% |
| Opotiki District | 13% | 8% | 11% | 32% | 10% | 13% |
| Bay of Plenty | 12% | 9% | 12% | 37% | 11% | 10% |
| New Zealand | 12% | 8% | 12% | 39% | 11% | 9% |

For the analysis in Table 6.4 and Figure 6.1, industry has been categorised into seventeen main groups. Census data on industry refers to the type of activity undertaken by the organisation, enterprise or business within which a person is employed. An individual business is assigned an appropriate industry category on the basis of its predominant income producing activity.

Table 6.4 Employment by Industry Group, Labour Force Aged 15 Years and Over, New Zealand and Bay of Plenty region, 2006

| Major Industry | Western Bay of Plenty District | Tauranga City | Rotorua District (whole) | Whakatane District | Kawerau District | Opotiki District | Bay of Plenty | New Zealand |
|---|--------------------------------------|---------------|--------------------------------|-----------------------|---------------------|---------------------|------------------|----------------|
| Agriculture, Forestry and Fishing | 21% | 3% | 8% | 14% | 5% | 25% | 9% | 7% |
| Mining | 0.4% | 0.1% | 0.1% | 0.1% | 0.1% | 0% | 0.1% | 0.2% |
| Manufacturing | 9.6% | 11% | 11% | 11% | 24% | 4% | 11% | 11% |
| Electricity, Gas, Water and Waste Services | 0.2% | 0.4% | 1% | 1% | 1% | 0.3% | 0.5% | 0.5% |
| Construction | 9% | 11% | 7% | 8% | 7% | 7% | 9% | 8% |
| Wholesale Trade | 3% | 5% | 4% | 2% | 2% | 2% | 4% | 5% |
| Retail Trade | 8% | 12% | 10% | 11% | 9% | 9% | 11% | 10% |
| Accommodation and Food Services | 3% | 5% | 9% | 4% | 4% | 5% | 6% | 6% |
| Transport, Postal and Warehousing | 4% | 5% | 4% | 3% | 4% | 2% | 4% | 4% |
| Information Media and Telecommunications | 1% | 1% | 1% | 1% | 0.5% | 1% | 1% | 2% |
| Financial and Insurance Services | 2% | 3% | 2% | 2% | 2% | 1% | 2% | 3% |
| Rental, Hiring and Real Estate Services | 4% | 3% | 2% | 2% | 1% | 2% | 3% | 3% |
| Professional, Scientific and Technical Services | 5% | 7% | 6% | 5% | 2% | 3% | 6% | 8% |
| Administrative and Support Services | 4% | 3% | 3% | 2% | 3% | 3% | 3% | 3% |
| Public Administration and Safety | 2% | 3% | 3% | 4% | 2% | 3% | 3% | 4% |
| Education and Training | 5% | 6% | 8% | 10% | 10% | 10% | 7% | 7% |
| Health Care and Social Assistance | 8% | 10% | 9% | 9% | 7% | 7% | 9% | 8% |
| Arts and Recreation Services | 1% | 1% | 3% | 1% | 1% | 1% | 2% | 2% |
| Other Services | 4% | 4% | 4% | 4% | 5% | 3% | 4% | 4% |
| Not Elsewhere Included | 7% | 5% | 6% | 7% | 9% | 11% | 6% | 6% |

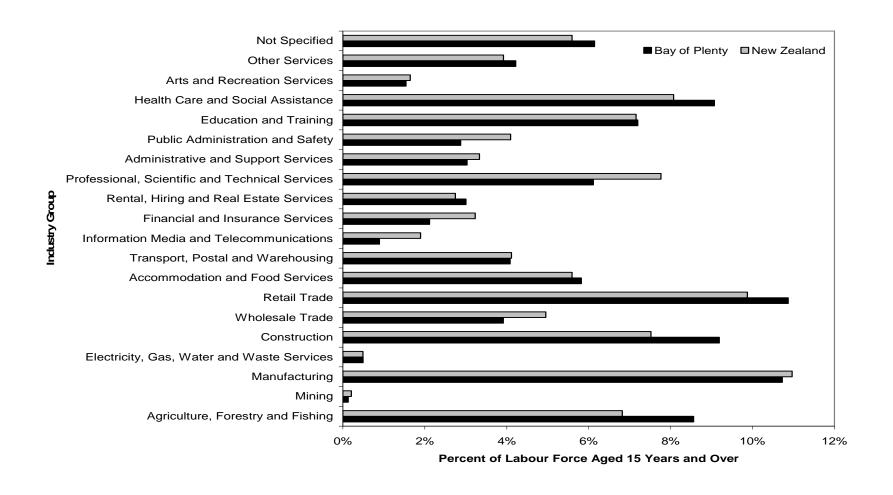


Figure 6.4 Employment by Industry Group, Labour Force Aged 15 Years and Over, New Zealand and Bay of Plenty region, 2006

Table 6.5 and Figure 6.2 show unemployment levels which are often used as an indicator for gauging social and economic wellbeing. Unemployment levels are defined here as the number of persons who are unemployed and actively seeking work as a percentage of the total labour force aged 15 years and over. Table 6.6 summarises information on how people travel to work.

Table 6.5 Unemployment Rates, Labour Force Aged 15 Years and Over, New Zealand, Bay of Plenty region and districts, 1996-2006

| | 1996 | 2001 | 2006 |
|--------------------------------|------|------|------|
| Western Bay of Plenty District | 8% | 4% | 3% |
| Tauranga City | 9% | 5% | 3% |
| Rotorua District (whole) | 10% | 6% | 4% |
| Whakatane District | 12% | 8% | 5% |
| Kawerau District | 18% | 11% | 8% |
| Opotiki District | 16% | 9% | 6% |
| Bay of Plenty | 10% | 6% | 4% |
| New Zealand | 8% | 5% | 3% |

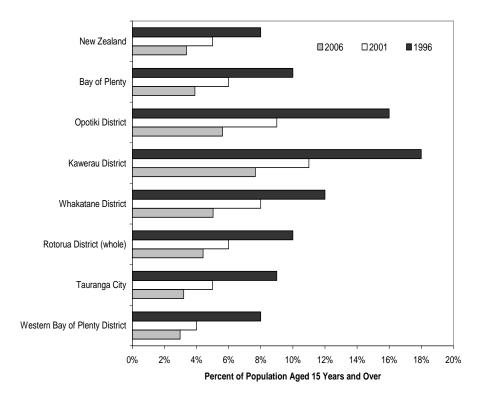


Figure 6.2 Unemployment Rates, Labour Force Aged 15 Years and Over, New Zealand, Bay of Plenty region and districts, 1996-2006

Table 6.6 Means of Travel to Work by Labour Force Aged 15 Years and Over, New Zealand, Bay of Plenty region and districts, 2006

| Means of Travel | Western Bay of Plenty District | Tauranga City | Rotorua District (whole) | Whakatane District | Kawerau District | Opotiki District | Bay of Plenty | New Zealand |
|--|--------------------------------------|------------------|--------------------------------|-----------------------|---------------------|---------------------|---------------|-------------|
| Worked at Home | 18% | 7% | 8% | 11% | 3% | 16% | 9% | 8% |
| Did Not Go To Work Today | 11% | 11% | 10% | 11% | 10% | 9% | 11% | 10% |
| Drove a Private Car, Truck or Van | 45% | 52% | 50% | 46% | 53% | 43% | 50% | 48% |
| Drove a Company Car, Truck or Van | 12% | 14% | 13% | 11% | 8% | 9% | 12% | 11% |
| Passenger in a Car, Truck, Van or Company | 3% | 40/ | 60/ | F0/ | 60/ | 5% | 5 0/ | F9/ |
| Bus Public Bus | 0.2% | 4% 1% | 6% 1% | 5% 0.1% | 6% 0% | 0.4% | 5% 1% | 5% 3% |
| Train | 0.03% | 0.03% | 0.02% | 0.04% | 0.1% | 0% | 0.03% | 1% |
| Motor Cycle or Power Cycle | 1% | 1% | 1% | 2% | 1% | 2% | 1% | 1% |
| Bicycle | 1% | 2% | 2% | 2% | 3% | 1% | 2% | 2% |
| Walked or Jogged | 3% | 3% | 4% | 5% | 7% | 5% | 4% | 5% |
| Other | 0.4% | 0.4% | 0.5% | 0.4% | 0.4% | 0.4% | 0.4% | 1% |

3.3 Education

The highest level of education attained by Bay of Plenty regional and district residents aged 15 years and over is shown in Table 7.1 and Figure 7.1. Highest qualifications have been grouped into three categories: No Qualification (attained at school and since leaving school); School Qualifications (achieved from secondary schools including those outside of New Zealand); University or Other Tertiary (including graduate and undergraduate degrees and trade, teaching/nursing, technicians and other vocational certificates or diplomas).

Table 7.1 Highest Qualification Attained, Population Aged 15 Years and Over, New Zealand, Bay of Plenty region and districts, 2006

| | No Qualification | School Qualification | University or Other Tertiary | Not Elsewhere Included |
|-----------------------------------|---------------------|-------------------------|---------------------------------|------------------------------|
| Western Bay of Plenty District | 25% | 45% | 18% | 12% |
| Tauranga City | 24% | 47% | 20% | 10% |
| Rotorua District (whole) | 25% | 45% | 18% | 13% |
| Whakatane District | 28% | 43% | 16% | 14% |
| Kawerau District | 37% | 41% | 8% | 14% |
| Opotiki District | 34% | 38% | 12% | 16% |
| Bay of Plenty | 26% | 45% | 18% | 12% |
| New Zealand | 22% | 45% | 23% | 10% |

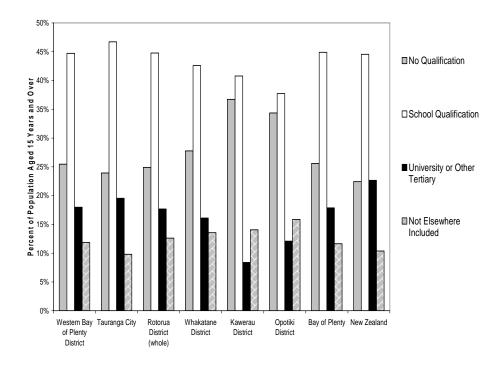


Figure 7.1 Highest Qualification Attained, Population Aged 15 Years and Over, New Zealand, Bay of Plenty region and districts, 2006

Table 7.2 and Figure 7.2 show highest qualification gained by ethnicity.

Table 7.2 Highest Qualification by Ethnicity, Population Aged 15 Years and Over, Bay of Plenty region, 2006

| Ethnicity | No Qualification | | University or Other Tertiary | Not Specified |
|-----------|---------------------|-----|---------------------------------|------------------|
| European | 25% | 48% | 20% | 7% |
| Maori | 36% | 42% | 11% | 12% |
| Other | 20% | 50% | 23% | 7% |

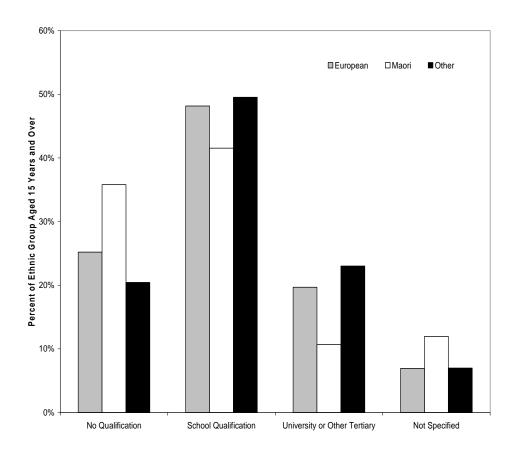


Figure 7.2 Highest Qualification by Ethnicity, Population Aged 15 Years and Over, Bay of Plenty region, 2006

The highest qualification of school leavers is depicted in Table 7.3 and Figure 7.3. The categories that have been determined by the Ministry of Education are: No Qualifications; Level 2 Qualifications or above; University Entrance, Level 3 Qualification.

Table 7.3 Highest Qualification of School Leavers, New Zealand and Bay of Plenty region, 2007'

| Type of Qualification | New Zealand | Bay of Plenty |
|--------------------------|-------------|---------------|
| No Qualifications | 5% | 5% |
| Level 2 Qualification or | | |
| above | 66% | 61% |
| UE, Level 3 | | |
| Qualification | 39% | 33% |

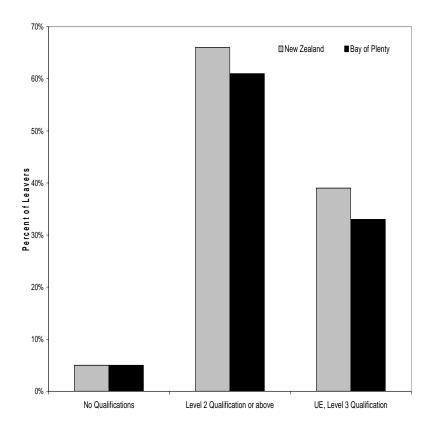


Figure 7.3 Highest Qualification of School Leavers, New Zealand and Bay of Plenty region, 2007

Table 7.4 provides information about income levels and highest qualifications gained for New Zealand and Bay of Plenty populations.

Table 7.4 Income by Highest Qualification, Population Aged 15 Years and Over, New Zealand and Bay of Plenty region, 2006

| | | Bay of Plenty | | | New Zealand | | |
|---------------------|---------------------|----------------------|---------------------------------|---------------------|-------------------------|---------------------------------|--|
| | No Qualification | School Qualification | University or Other Tertiary | No Qualification | School Qualification | University or Other Tertiary | |
| Loss | 32% | 46% | 13% | 28% | 46% | 19% | |
| \$0-\$15,000 | 35% | 46% | 11% | 31% | 48% | 14% | |
| \$15,001-\$30,000 | 29% | 49% | 16% | 28% | 48% | 18% | |
| \$30,001-\$40,000 | 21% | 54% | 21% | 20% | 51% | 25% | |
| \$40,001 - \$50,000 | 17% | 52% | 29% | 15% | 50% | 33% | |
| \$50,001 - \$70,000 | 13% | 46% | 38% | 10% | 44% | 44% | |
| \$70,001 plus | 11% | 41% | 46% | 7% | 36% | 56% | |

3.4 Personal, family and household income

The personal and family income received by Bay of Plenty residents are examined in this section. Personal income refers to the gross total personal income received by an individual aged 15 years and over. Family¹⁰ income is the combined, gross total income that persons aged 15 years and over in a family receive. Household income is defined as the total income, including income support, before tax that members of a household aged 15 and over receive from all sources.

The median personal incomes for New Zealand, Bay of Plenty region and districts are shown in Table 8.1. Total personal incomes are then given in Table 8.2 and Figure 8.1.

Table 8.1 Median Personal Income, Population Aged 15 Years and Over, New Zealand, Bay of Plenty region and districts, 2006

| | Median Personal Income |
|--------------------------------|------------------------|
| Western Bay of Plenty District | \$22,600 |
| Tauranga City | \$23,200 |
| Rotorua District (whole) | \$23,900 |
| Whakatane District | \$21,700 |
| Kawerau District | \$17,100 |
| Opotiki District | \$17,400 |
| Bay of Plenty | \$22,600 |
| New Zealand | \$24,400 |

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¹⁰ Family refers to two or more people, who are members of the same household, and who compromise either a couple, or at least one parent/child relationship or both.

Table 8.2 Total Personal Income, Population Aged 15 Years and Over, New Zealand, Bay of Plenty region and districts, 2006

| | Loss | 0\$-\$15,000 | \$15,001- \$30,000 | \$30,001- \$40,000 | \$40,001 - \$50,000 | \$50,001 - \$70,000 | \$70,001 plus | Not Stated |
|--------------------------|------|--------------|-----------------------|-----------------------|------------------------|------------------------|---------------|------------|
| Western Bay of Plenty | | | | | | | | |
| District | 0.9% | 30% | 24% | 13% | 8% | 8% | 6% | 11% |
| Tauranga City | 0.4% | 30% | 26% | 13% | 8% | 9% | 6% | 9% |
| Rotorua District (whole) | 0.5% | 29% | 24% | 13% | 8% | 8% | 5% | 12% |
| Whakatane District | 0.6% | 31% | 23% | 11% | 7% | 8% | 6% | 13% |
| Kawerau District | 0.4% | 38% | 22% | 8% | 5% | 6% | 5% | 14% |
| Opotiki District | 0.7% | 36% | 25% | 9% | 5% | 5% | 3% | 16% |
| Bay of Plenty | 0.6% | 30% | 25% | 13% | 8% | 8% | 6% | 11% |
| New Zealand | 0.5% | 30% | 22% | 13% | 8% | 9% | 7% | 10% |

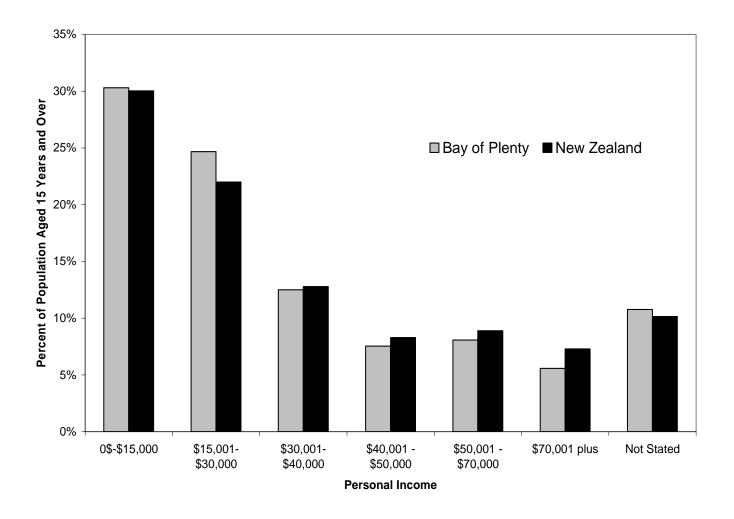


Figure 8.1 Total Personal Income, Population Aged 15 Years and Over, New Zealand and Bay of Plenty region, 2006

Table 8.3 and Figure 8.2 are concerned with personal income by sex.

Table 8.3 Proportion of Males and Females in Each Income Bracket, Bay of Plenty region, 2006

| Personal Income | Male | Female |
|---------------------|------|--------|
| \$5,000 or Less | 37% | 63% |
| \$5,001 - \$10,000 | 38% | 62% |
| \$10,001 - \$20,000 | 37% | 63% |
| \$20,001 - \$30,000 | 44% | 56% |
| \$30,001 - \$50,000 | 57% | 43% |
| \$50,001 or More | 71% | 29% |
| Not Stated | 45% | 55% |

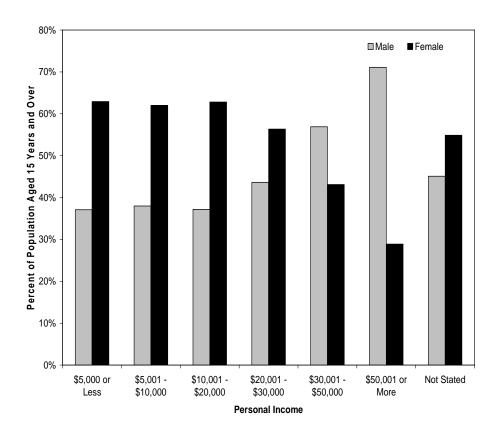


Figure 8.2 Proportion of Males and Females in Each Income Bracket, Bay of Plenty region, 2006

Personal income by ethnicity is shown in Table 8.4 and Figure 8.3.

Table 8.4 Personal Income by Ethnicity, Population Aged 15 Years and Over, Bay of Plenty region, 2006

| Ethnicity | Loss | \$0 - \$15,000 | \$15,001 - \$30,000 | \$30,001 - \$40,000 | \$40,001 - \$50,000 | \$50,001 - \$70,000 | \$70,001 plus | Not Stated |
|-----------|------|-------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------|
| European | 0.5% | 31% | 26% | 13% | 8% | 9% | 6% | 6% |
| Maori | 0.6% | 35% | 26% | 12% | 6% | 5% | 3% | 13% |
| Other | 0.8% | 29% | 24% | 14% | 9% | 10% | 7% | 7% |

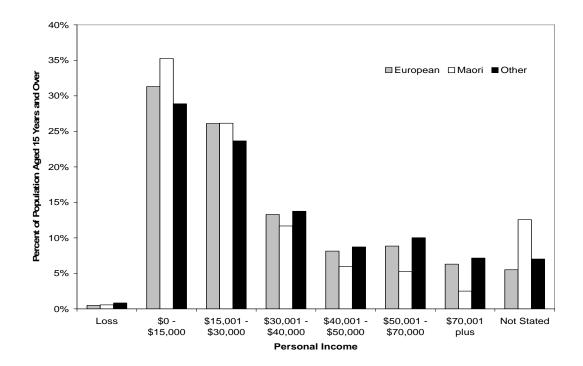


Figure 8.3 Personal Income by Ethnicity, Bay of Plenty region, 2006

Table 8.5 reflects the source of personal income for the New Zealand, Bay of Plenty region and district populations.

Table 8.5 Source of Personal Income, New Zealand, Bay of Plenty region and districts, 2006

| Source of Income | Western Bay of Plenty District | Tauranga City | Rotorua District (part) | Whakatane District | Kawerau District | Opotiki District | Bay of Plenty | New Zealand |
|--|-----------------------------------|------------------|----------------------------|-----------------------|---------------------|---------------------|---------------|----------------|
| Wages, Salary, Commissions, Bonuses etc Paid by Employer | 48% | 53% | 56% | 50% | 48% | 43% | 52% | 56% |
| Self-employment or Business | 26% | 16% | 13% | 15% | 5% | 16% | 17% | 16% |
| Interest, Dividends, Rent, Other Investments | 28% | 27% | 19% | 20% | 12% | 15% | 24% | 23% |
| Regular Payments from ACC or a Private Work Accident Insurer | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 1% |
| NZ Superannuation or Veterans Pension | 18% | 20% | 14% | 15% | 17% | 17% | 18% | 14% |
| Other Superannuation, Pensions or Annuities | 3% | 4% | 2% | 2% | 2% | 2% | 3% | 3% |
| Unemployment Benefit | 1% | 2% | 4% | 6% | 10% | 9% | 3% | 3% |
| Sickness Benefit | 2% | 2% | 3% | 3% | 3% | 4% | 3% | 2% |
| Domestic Purposes Benefit | 3% | 4% | 5% | 5% | 7% | 6% | 4% | 3% |
| Invalids Benefit | 2% | 2% | 2% | 2% | 5% | 3% | 2% | 2% |
| Student Allowance | 1% | 2% | 2% | 1% | 1% | 1% | 1% | 2% |
| Other Government Benefits, Government Income Support Payments, War Pensions or Paid Parental Leave | 3% | 4% | 3% | 3% | 3% | 3% | 3% | 3% |
| Other Sources of Income, Including Support Payments from People Living in Other Households | 1% | 2% | 2% | 2% | 2% | 1% | 2% | 2% |
| No Source of Income | 4% | 4% | 5% | 5% | 7% | 5% | 5% | 6% |

Income support refers to government funded income supplements received from Work and Income. Table 8.6 and Figure 8.4 illustrate the percentage of residents who received income support during the 12 months prior to the 2006 census. The types of benefits received are then illustrated in Table 8.7.

Table 8.6 Proportion of Population Aged 15 Years and Over Receiving Income Support, New Zealand, Bay of Plenty region and districts, 2006

| | Percent Receiving Income Support |
|--------------------------------|----------------------------------|
| Western Bay of Plenty District | 11% |
| Tauranga City | 14% |
| Rotorua District (part) | 17% |
| Whakatane District | 19% |
| Kawerau District | 28% |
| Opotiki District | 26% |
| Bay of Plenty | 16% |
| New Zealand | 14% |

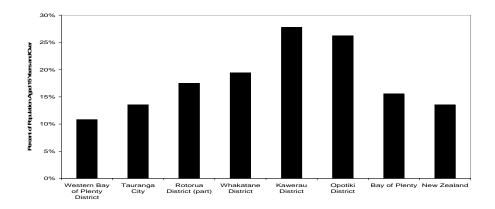


Figure 8.4 Proportion of Population Aged 15 Years and Over Receiving Income Support, New Zealand, Bay of Plenty region and districts, 2006

Table 8.7 Types of Benefits Received by Population Aged 15 Years and Over, New Zealand, Bay of Plenty region and districts, 2006

| | Unemployment Benefit | Sickness Benefit | Domestic Purposes Benefit | Invalids Benefit | Other Benefits |
|-----------------------------------|-------------------------|---------------------|---------------------------------|---------------------|-------------------|
| Western Bay of Plenty District | 13% | 19% | 26% | 17% | 26% |
| Tauranga City | 13% | 17% | 26% | 17% | 27% |
| Rotorua District (part) | 23% | 15% | 30% | 14% | 19% |
| Whakatane District | 32% | 15% | 24% | 13% | 16% |
| Kawerau District | 35% | 10% | 25% | 18% | 12% |
| Opotiki District | 36% | 16% | 23% | 12% | 13% |
| Bay of Plenty | 21% | 16% | 27% | 15% | 21% |
| New Zealand | 22% | 17% | 22% | 18% | 23% |

Family income is often considered to be more useful than personal income for measuring social and economic well-being. This is because individual income does not show differences between one and two income families. Family income refers to the total combined income that all persons aged fifteen and over in a family receive. Table 8.8 and Figure 8.5 depict these incomes.

Table 8.8 Family Income, New Zealand and Bay of Plenty region, 2006

| | New Zealand | Bay of Plenty |
|---------------------|-------------|---------------|
| \$0 - \$15,000 | 4% | 5% |
| \$15,001 - \$30,000 | 15% | 18% |
| \$30,001 - \$40,000 | 9% | 10% |
| \$40,001 - \$50,000 | 8% | 8% |
| \$50,001 - \$70,000 | 16% | 17% |
| \$70,001 plus | 34% | 28% |
| Not Specified | 14% | 14% |

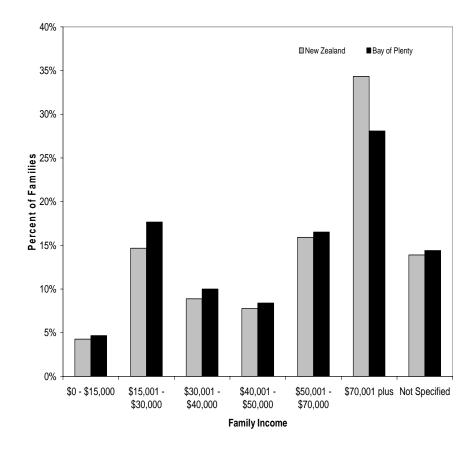


Figure 8.5 Family Income, New Zealand and Bay of Plenty region, 2006

Table 8.9 comprises the median income for both family and household figures. Percentages for the household income groupings of New Zealand, Bay of Plenty region and districts are then represented in Table 8.10. Household source of income is shown in Table 8.11.

Table 8.9 Median Family and Household Income, New Zealand, Bay of Plenty region and districts, 2006

| | Market Barrier | Market Harris I and I have a |
|--------------------------------|----------------------|------------------------------|
| | Median Family Income | Median Household Income |
| Western Bay of Plenty District | \$53,500 | \$46,800 |
| Tauranga City | \$53,100 | \$45,500 |
| Rotorua District (whole) | \$54,000 | \$47,600 |
| Whakatane District | \$51,900 | \$46,200 |
| Kawerau District | \$38,700 | \$35,700 |
| Opotiki District | \$37,100 | \$32,500 |
| Bay of Plenty | \$52,200 | \$45,400 |
| New Zealand | \$59,000 | \$51,400 |

Table 8.10 Household Income, New Zealand, Bay of Plenty region and districts, 2006

| | \$20,000 or Less | \$20,001 - \$30,000 | \$30,001 - \$50,000 | \$50,001 - \$70,000 | \$70,001 plus | Not Stated |
|-----------------------------------|---------------------|------------------------|------------------------|------------------------|------------------|---------------|
| Western Bay of Plenty District | 14% | 13% | 18% | 15% | 24% | 16% |
| Tauranga City | 15% | 13% | 18% | 15% | 25% | 14% |
| Rotorua District (part) | 14% | 11% | 17% | 14% | 25% | 18% |
| Whakatane District | 15% | 12% | 15% | 13% | 24% | 21% |
| Kawerau District | 19% | 15% | 16% | 11% | 18% | 21% |
| Opotiki District | 20% | 15% | 16% | 10% | 14% | 25% |
| Bay of Plenty | 15% | 13% | 17% | 14% | 24% | 17% |
| New Zealand | 14% | 11% | 16% | 14% | 29% | 16% |

Table 8.11 Household Source of Income, Bay of Plenty region and districts, 2006

| Source of Income | Western Bay of Plenty District | Tauranga City | Rotorua District (part) | Whakatane District | Kawerau District | Opotiki District | Bay of Plenty |
|--|-----------------------------------|------------------|----------------------------|-----------------------|---------------------|---------------------|------------------|
| Wages, Salary, Commissions, Bonuses etc Paid by Employer | 60% | 62% | 67% | 61% | 60% | 53% | 62% |
| Self-employment or Business | 36% | 23% | 21% | 22% | 8% | 22% | 24% |
| Interest, Dividends, Rent, Other Investments | 37% | 36% | 26% | 28% | 17% | 20% | 32% |
| Regular Payments from ACC or a Private Work Accident Insurer | 4% | 3% | 3% | 3% | 3% | 3% | 3% |
| NZ Superannuation or Veterans Pension | 25% | 27% | 20% | 22% | 22% | 24% | 24% |
| Other Superannuation, Pensions or Annuities | 5% | 6% | 4% | 4% | 4% | 4% | 5% |
| Unemployment Benefit | 2% | 3% | 6% | 9% | 15% | 14% | 5% |
| Sickness Benefit | 3% | 4% | 4% | 5% | 5% | 7% | 4% |
| Domestic Purposes Benefit | 5% | 7% | 10% | 9% | 13% | 12% | 8% |
| Invalids Benefit | 3% | 4% | 4% | 4% | 8% | 5% | 4% |
| Student Allowance | 2% | 3% | 3% | 2% | 2% | 2% | 2% |
| Other Government Benefits, Government Income Support Payments, War Pensions or Paid Parental Leave | 5% | 6% | 6% | 6% | 6% | 5% | 6% |
| Other Sources of Income, Including Support Payments from People Living in Other Households | 3% | 3% | 3% | 3% | 3% | 2% | 3% |
| No Sources of Income | 1% | 0.4% | 0.4% | 0.4% | 1% | 1% | 0.5% |

Part 4: Index of Deprivation

4.1 Index of Deprivation: district analysis

4.1.1 Introduction

This section of the report is based on the Index of Deprivation, NZDep06, which is an academically rigorous integration of nine variables from the 2006 census; reflecting eight dimensions of deprivation (see Appendix 4 for details). The index was developed by researchers at the Health Services Research Centre, a joint venture between the Wellington School of Medicine, University of Otago, and the Institute of Political Studies, Victoria University of Wellington.

While NZDep06 was developed from a health sector perspective for three principle purposes, resource allocation, research and advocacy, it does have application in other sectors. For example, it can be used as a basis for development of funding formulae and community advocacy. In environmental resource management, the index can assist the assessment of the social and economic well-being of people and communities, an element of sustainable management under the Resource Management Act 1991.

The information is presented in this section as a series of charts and maps.

4.2 **Methods**

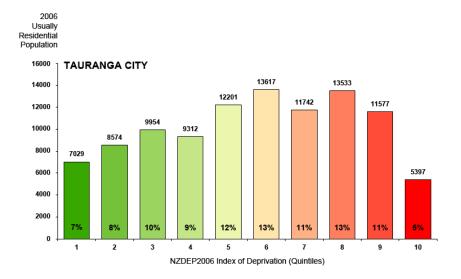
It is important to understand the following points regarding the Deprivation Index.

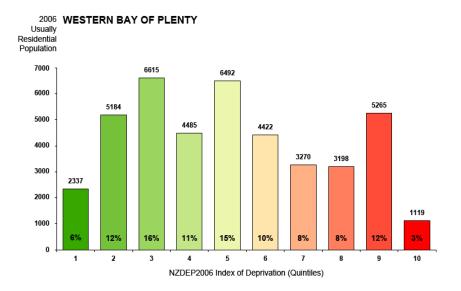
- NZDep2006 deprivation scores apply to areas rather than individual people.
- To create NZDep2006 for small areas with a population of at least 100 usually resident people, meshblocks have been combined where necessary (and where possible). In general, the NZDep2006 small areas consist of one of two meshblocks. Some meshblocks have been omitted from the index (no data) as they contain very few people. Most of these meshblocks are sea or estuary located.
- At the meshblock level, area comparisons over time should not be attempted. The reasons for this are: small areas definitions are not always identical, NZDep distributions are not identical, at least one of the nine component variables is inevitably not identical and variables considered for the calculation of the index can be deliberately changed.

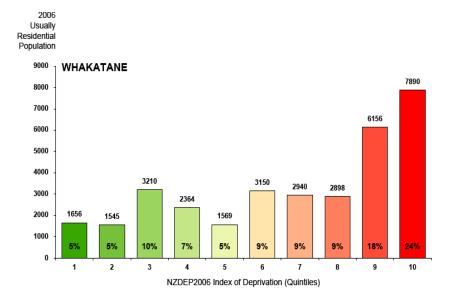
- Comparing *relationships* between deprivation and other variables, over time, may be less flawed, but we still urge caution regarding data interpretation.
- The profiles should refer to "areas that have the most deprived NZDep scores" rather than "the most deprived areas".
- 10% of the areas will always fall into the most deprived decile of NZDep scores as NZDep is designed to measure relative socio-economic deprivation, not absolute socio-economic deprivation or affluence.
- There are a number of statistical limitations of the index of deprivation as a whole.

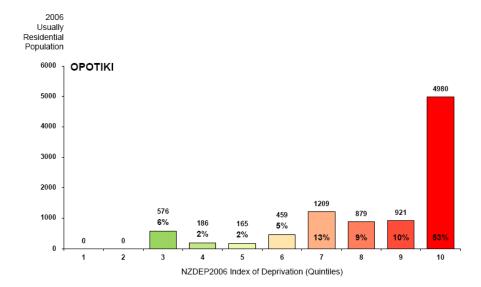
All charts and maps are provided by the Ministry of Health and are available in the *Atlas* of *Socioeconomic Deprivation in New Zealand NZDep2006*. Documents related to the use and calculation of the Index can be found on the Ministry of Health website (www.moh.govt.nz).

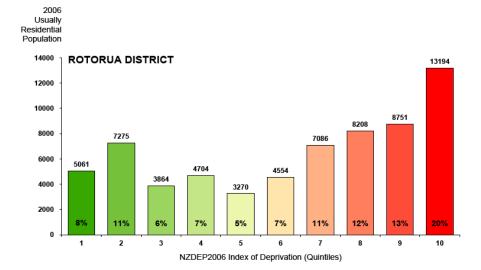
Index of Deprivation charts

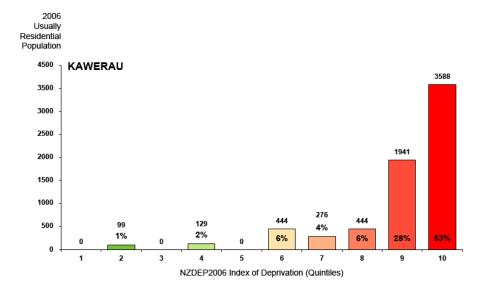




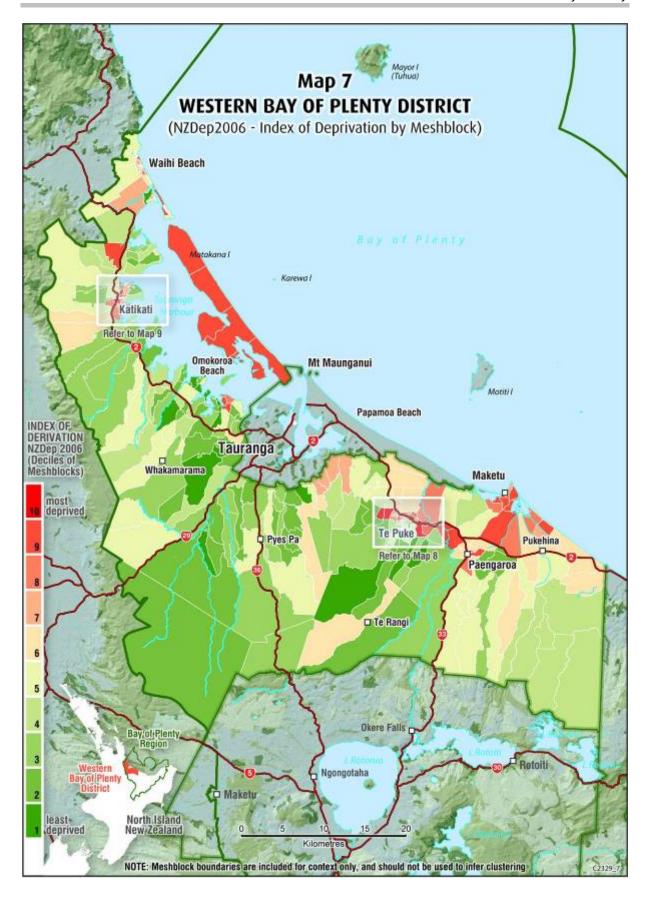


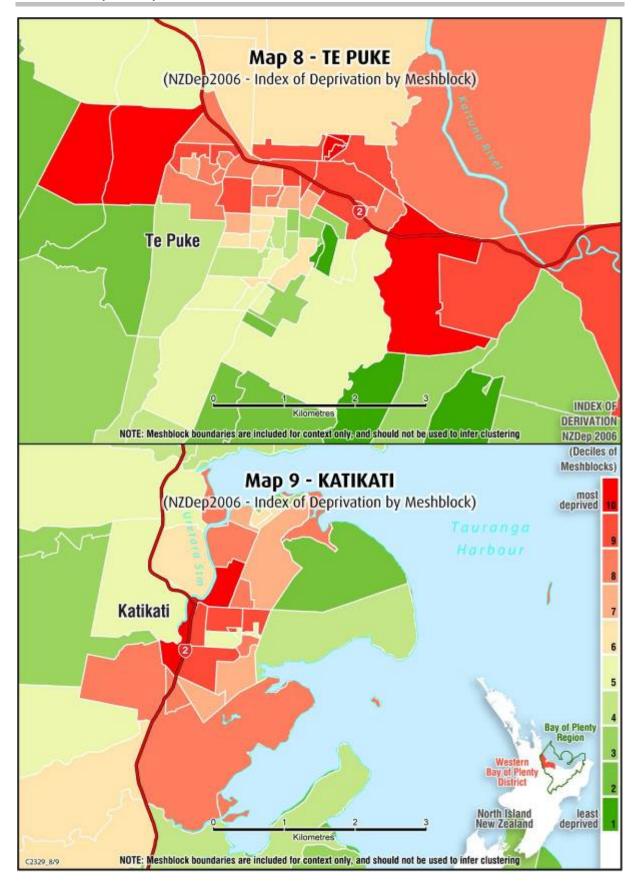


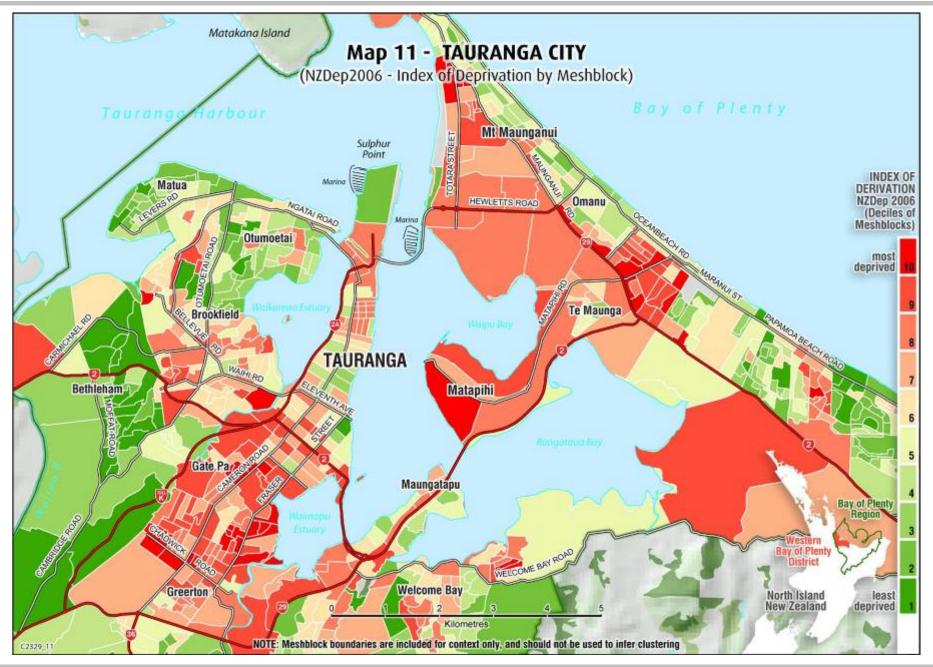


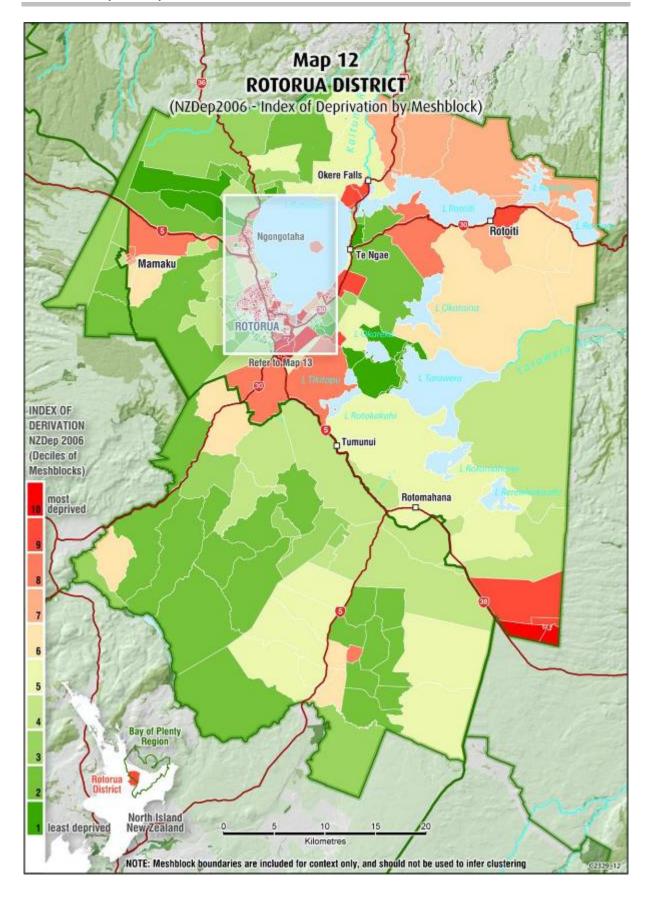


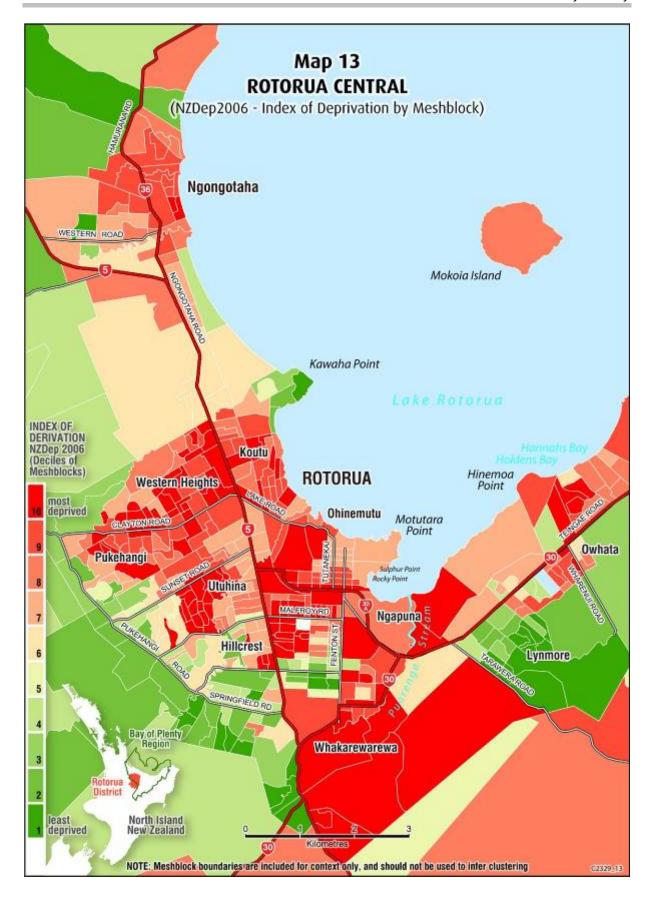
Index of Deprivation maps

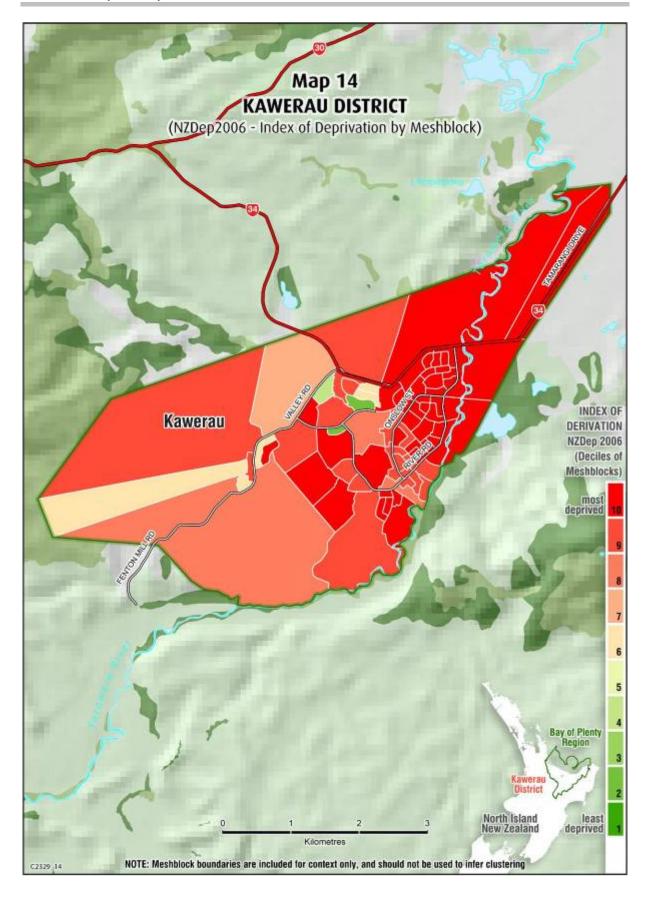


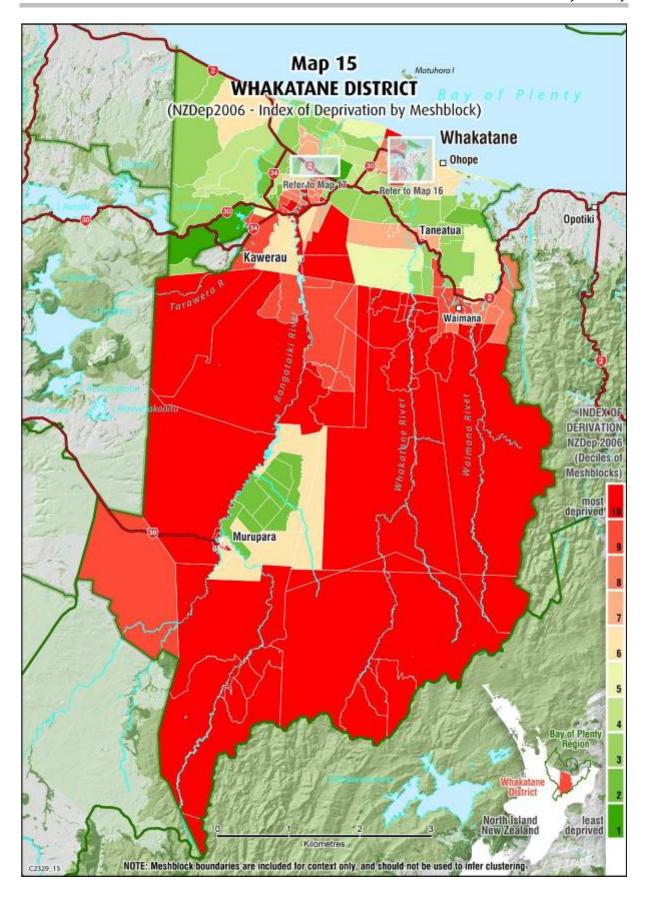


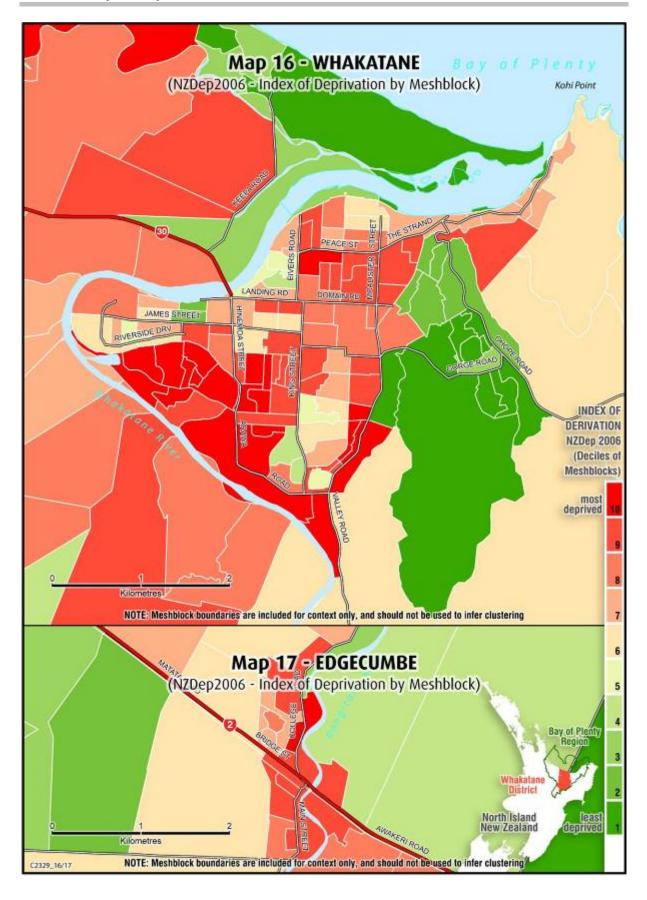


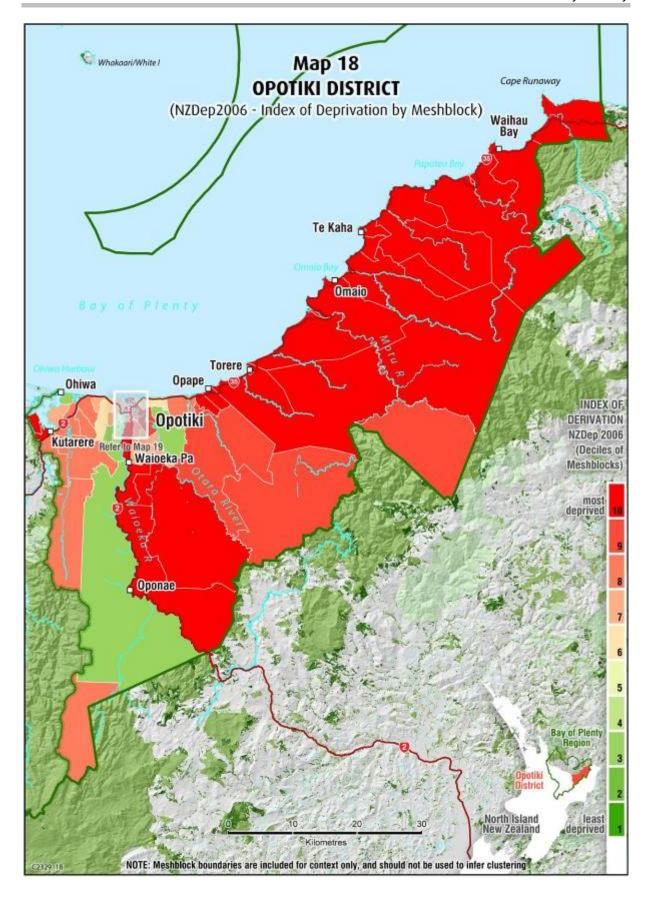


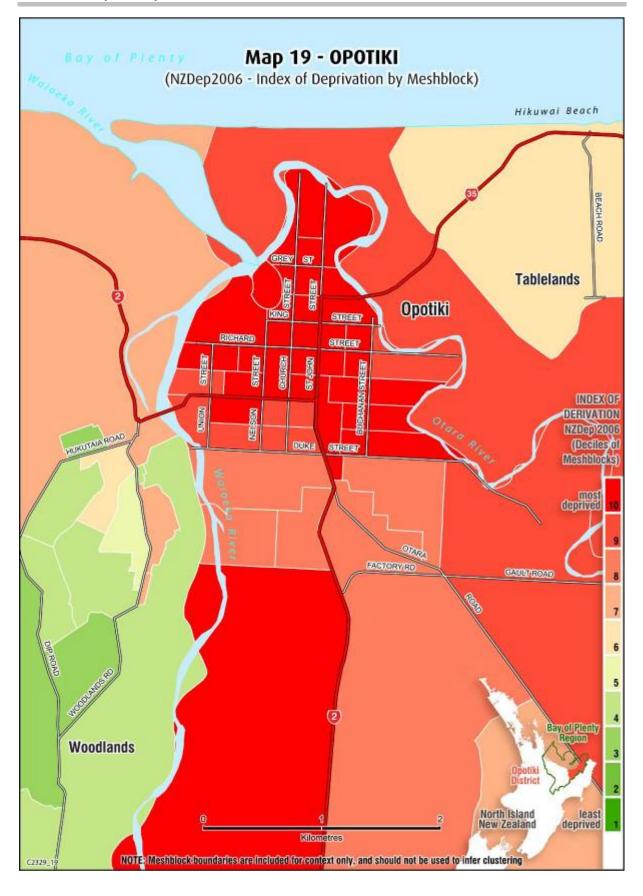


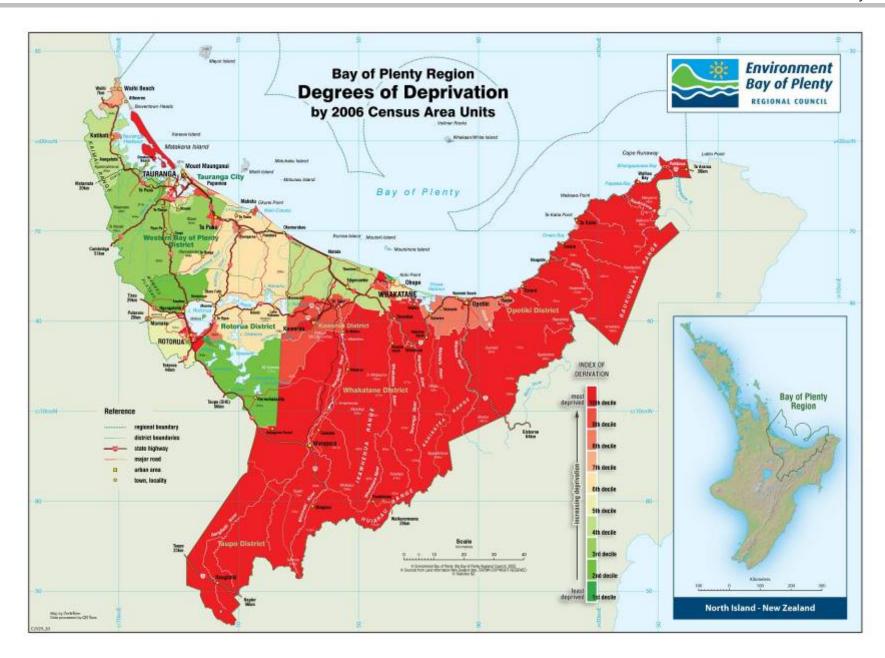


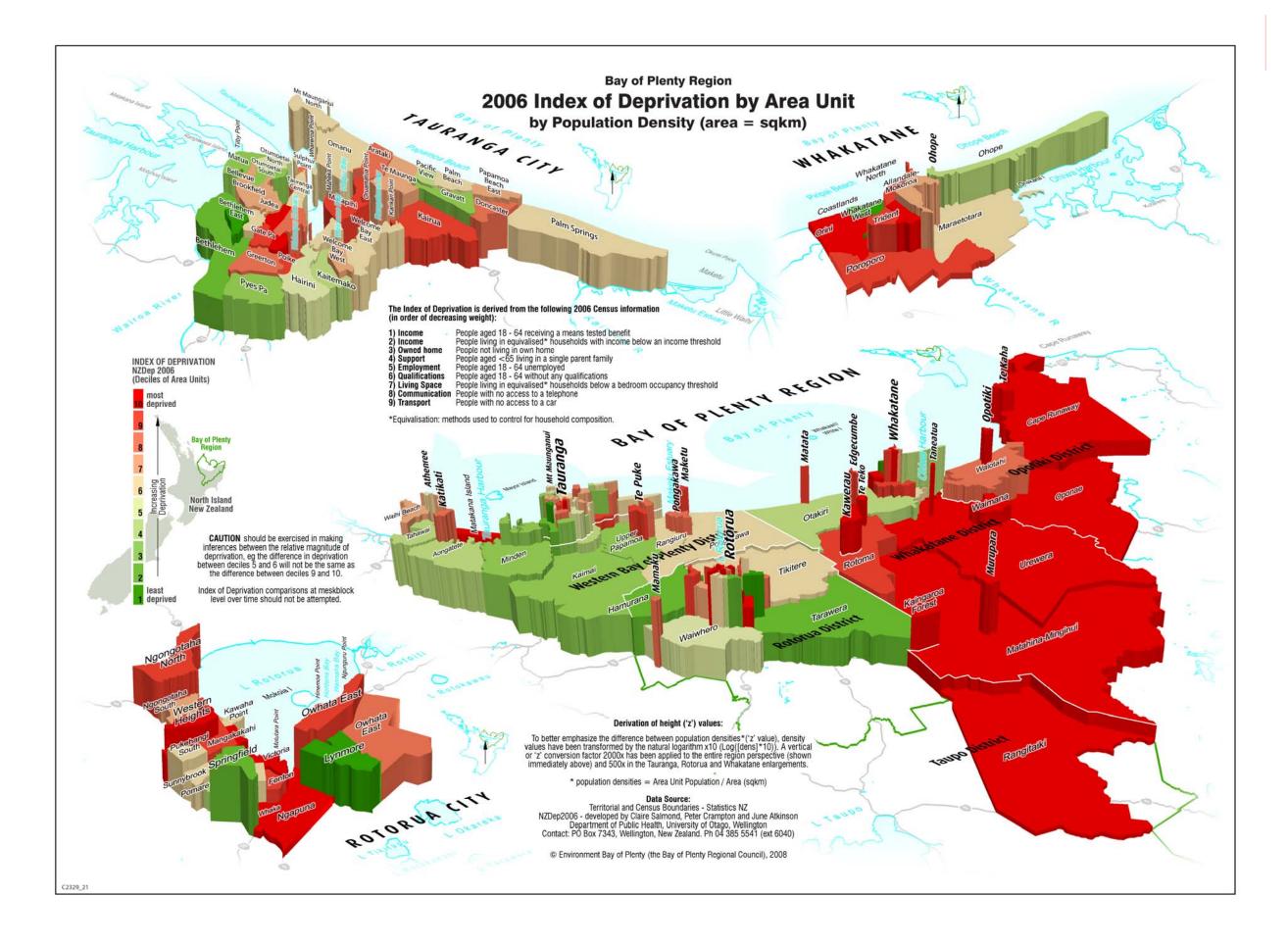












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Appendices

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| Appendix 3 | Technical notes about population projections |
| Appendix 4 | NZDep06 variables |

Appendix 1 – Tables

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- Table 18 Family Income, New Zealand, Bay of Plenty region and districts, 2006.

Table 1.1 Projected* Change in Age Structure, Western Bay of Plenty, 2006-2031 (2006 – Base Population Projection)

| Year (ending 30 June) | 0-4 Years | 5-14 Years | 15-24 Years | 25-44 Years | 45-64 Years | 65 Years Plus |
|--------------------------|-----------|------------|-------------|-------------|-------------|---------------|
| 2006 | 2590 | 6640 | 4600 | 10150 | 12500 | 6800 |
| 2011 | 2750 | 6310 | 5110 | 9610 | 14280 | 8200 |
| 2016 | 2740 | 6290 | 4920 | 9960 | 15070 | 10000 |
| 2021 | 2800 | 6430 | 4580 | 10520 | 15250 | 11900 |
| 2026 | 2840 | 6480 | 4560 | 11030 | 14750 | 14200 |
| 2031 | 2800 | 6570 | 4710 | 11190 | 14270 | 16200 |

Table 1.2 Projected* Change in Age Structure, Tauranga district, 2006-2031 (2006 – Base Population Projection)

| Year (ending 30 June) | 0-4 Years | 5-14 Years | 15-24 Years | 25-44 Years | 45-64 Years | 65 Years Plus |
|--------------------------|-----------|------------|-------------|-------------|-------------|---------------|
| 2006 | 7120 | 14910 | 13070 | 27690 | 25400 | 18500 |
| 2011 | 7990 | 15570 | 14200 | 28830 | 29000 | 21200 |
| 2016 | 8100 | 16730 | 14990 | 30330 | 31730 | 24600 |
| 2021 | 8370 | 17700 | 15650 | 32350 | 33690 | 28300 |
| 2026 | 8710 | 18070 | 16800 | 34770 | 34730 | 32400 |
| 2031 | 9070 | 18690 | 17780 | 36570 | 35910 | 36700 |

Table 1.3 Projected* Change in Age Structure, Rotorua district (whole), 2006-2031 (2006 – Base Population Projection)

| Year (ending 30 June) | 0-4 Years | 5-14 Years | 15-24 Years | 25-44 Years | 45-64 Years | 65 Years Plus |
|--------------------------|-----------|------------|-------------|-------------|-------------|---------------|
| 2006 | 5450 | 11520 | 9070 | 18590 | 15900 | 7600 |
| 2011 | 5740 | 10960 | 9650 | 17200 | 17430 | 8500 |
| 2016 | 5320 | 11000 | 9370 | 16660 | 17970 | 10100 |
| 2021 | 5100 | 10870 | 8810 | 16560 | 17940 | 11700 |
| 2026 | 5010 | 10230 | 8850 | 16590 | 16930 | 13700 |
| 2031 | 4900 | 9930 | 8720 | 16630 | 15680 | 15400 |

Table 1.4 Projected Change* in Age Structure, Whakatane district, 2006-2031 (2006 – Base Population Projection)

| Year (ending 30 June) | 0-4 Years | 5-14 Years | 15-24 Years | 25-44 Years | 45-64 Years | 65 Years Plus |
|--------------------------|-----------|------------|-------------|-------------|-------------|---------------|
| 2006 | 2590 | 6040 | 4290 | 8600 | 8560 | 4300 |
| 2011 | 2870 | 5350 | 4690 | 7740 | 9380 | 4900 |
| 2016 | 2620 | 5380 | 4220 | 7550 | 9400 | 6000 |
| 2021 | 2470 | 5400 | 3540 | 7490 | 9150 | 7100 |
| 2026 | 2330 | 5000 | 3570 | 7330 | 8370 | 8200 |
| 2031 | 2160 | 4710 | 3590 | 7050 | 7540 | 9100 |

Table 1.5 Projected Change* in Age Structure, Kawerau district, 2006-2031 (2006 – Base Population Projection)

| Year (ending 30 June) | 0-4 Years | 5-14 Years | 15-24 Years | 25-44 Years | 45-64 Years | 65+ Years |
|--------------------------|-----------|------------|-------------|-------------|-------------|-----------|
| 2006 | 620 | 1360 | 890 | 1760 | 1620 | 890 |
| 2011 | 580 | 1130 | 1060 | 1500 | 1590 | 1100 |
| 2016 | 520 | 1050 | 880 | 1410 | 1540 | 1280 |
| 2021 | 470 | 950 | 660 | 1430 | 1420 | 1390 |
| 2026 | 430 | 840 | 580 | 1320 | 1250 | 1480 |
| 2031 | 350 | 760 | 470 | 1260 | 1010 | 1540 |

Table 1.6 Projected* Change in Age Structure, Opotiki district, 2006-2031 (2006 – Base Population Projection)

| Year (ending 30 June) | 0-4 Years | 5-14 Years | 15-24 Years | 25-44 Years | 45-64 Years | 65+ Years |
|--------------------------|-----------|------------|-------------|-------------|-------------|-----------|
| 2006 | 710 | 1760 | 1080 | 2070 | 2290 | 1280 |
| 2011 | 680 | 1540 | 1270 | 1820 | 2470 | 1390 |
| 2016 | 650 | 1440 | 1180 | 1730 | 2450 | 1650 |
| 2021 | 630 | 1380 | 960 | 1880 | 2290 | 1870 |
| 2026 | 610 | 1320 | 860 | 1900 | 2020 | 2140 |
| 2031 | 550 | 1280 | 790 | 1850 | 1810 | 2340 |

Table 1.7 Projected* Change in Age Structure, Bay of Plenty region, 2006-2031 (2006 – Base Population Projection)

| Year (ending 30 June) | 0-4 Years | 5-14 Years | 15-24 Years | 25-44 Years | 45-64 Years | 65+ Years |
|--------------------------|-----------|------------|-------------|-------------|-------------|-----------|
| 2006 | 18750 | 41570 | 32550 | 67760 | 65480 | 39200 |
| 2011 | 20210 | 40190 | 35490 | 65650 | 73290 | 45100 |
| 2016 | 19580 | 41140 | 35140 | 66700 | 77230 | 53300 |
| 2021 | 19480 | 41960 | 33770 | 69300 | 78830 | 61900 |
| 2026 | 19590 | 41240 | 34720 | 72020 | 77260 | 71500 |
| 2031 | 19500 | 41260 | 35540 | 73640 | 75480 | 80800 |

Table 1.8 Projected* Change in Age Structure, New Zealand, 2006-2031 (2006 – Base Population Projection)

| Year (ending 30 June) | 0-4 Years | 5-14 Years | 15-24 Years | 25-44 Years | 45-64 Years | 65+Years |
|--------------------------|-----------|------------|-------------|-------------|-------------|----------|
| 2006 | 286000 | 602310 | 604740 | 1181430 | 998480 | 511600 |
| 2011 | 308000 | 586600 | 629130 | 1168530 | 1115490 | 585500 |
| 2016 | 299250 | 607400 | 620430 | 1183740 | 1178200 | 699700 |
| 2021 | 296720 | 620900 | 605380 | 1221340 | 1209470 | 817000 |
| 2026 | 296760 | 609680 | 626280 | 1257040 | 1194340 | 955200 |
| 2031 | 296180 | 607230 | 639830 | 1268290 | 1187060 | 1091100 |

^{*}These population projections are calculated assuming medium fertility, medium mortality and medium migration

Table 2 Age Structure, New Zealand, Bay of Plenty region and districts, 2006

| | 0-4 Years | 5-14 Years | 15-24 Years | 25-44 Years | 45-64 Years | 65+Years | Total |
|--------------------------------|-----------|------------|-------------|-------------|-------------|----------|---------|
| | | | | | | | |
| Western Bay of Plenty District | 2526 | 6585 | 4323 | 9945 | 12165 | 6540 | 42075 |
| Tauranga City | 6906 | 14676 | 12468 | 26829 | 24696 | 18057 | 103632 |
| Rotorua District (part) | 4935 | 10686 | 8070 | 16860 | 14586 | 7161 | 62289 |
| Whakatane District | 2562 | 5937 | 3999 | 8337 | 8262 | 4200 | 33300 |
| Kawerau District | 609 | 1341 | 825 | 1716 | 1569 | 858 | 6924 |
| Opotiki District | 723 | 1749 | 993 | 2013 | 2256 | 1245 | 8976 |
| Bay of Plenty | 18267 | 41004 | 30717 | 65751 | 63582 | 38058 | 257379 |
| New Zealand | 275076 | 592497 | 571176 | 1134255 | 959340 | 495600 | 4027947 |

Table 3 Ethnic Composition, New Zealand, Bay of Plenty region and districts, 2006

| | European | Maori | Other | Total |
|--------------------------------|----------|--------|--------|---------|
| | | | | |
| Western Bay of Plenty District | 31890 | 6399 | 1140 | 38232 |
| Tauranga District | 76776 | 14112 | 3762 | 90906 |
| Rotorua District (part) | 40593 | 20973 | 4506 | 61041 |
| Whakatane District | 20949 | 13200 | 1104 | 32814 |
| Kawerau District | 3426 | 3915 | 342 | 6975 |
| Opotiki District | 4842 | 4995 | 291 | 9201 |
| Bay of Plenty | 178626 | 63654 | 11160 | 239412 |
| New Zealand | 2871432 | 526281 | 494970 | 3737280 |

Table 4 Ethnic Age Composition, Bay of Plenty region, 2006

| | 0-9 Years | 10-19 Years | 20-29 Years | 30-49 Years | 50-69 Years | 70+ Years | Total |
|----------|-----------|----------------|----------------|-------------|-------------|-----------|--------|
| European | 22617 | 23928 | 15072 | 43767 | 37680 | 21948 | 165012 |
| | | | | | | | |
| Maori | 15888 | 14874 | 8751 | 17640 | 8592 | 1917 | 67662 |
| Other | 7128 | 6375 | 4401 | 13806 | 10788 | 2685 | 45192 |

Table 5 Tenure of Private Dwellings, New Zealand, Bay of Plenty region and districts, 2006

| | Dwelling Owned or Partly Owned | Dwelling Not Owned by Usual Resident(s) | Not Specified | Total |
|--------------------------------|--------------------------------|---|---------------|---------|
| Western Bay of Plenty District | 7539 | 3816 | 1113 | 15438 |
| Tauranga City | 19269 | 12471 | 2214 | 39954 |
| Rotorua District (part) | 11808 | 7653 | 1653 | 23220 |
| Whakatane District | 6021 | 3636 | 810 | 11709 |
| Kawerau District | 1389 | 759 | 132 | 2394 |
| Opotiki District | 1518 | 1083 | 291 | 3189 |
| Bay of Plenty | 47031 | 28974 | 6165 | 94773 |
| New Zealand | 743955 | 451965 | 90336 | 1454175 |

Table 6 Family Type, New Zealand, Bay of Plenty region and districts, 2006

| | Couple Only | Two Parent Family | One Parent Family | Total |
|--------------------------------|-------------|----------------------|----------------------|---------|
| Mastam Day of Dlanty District | 5547 | 4000 | 4050 | 44074 |
| Western Bay of Plenty District | 5517 | 4698 | 1656 | 11871 |
| Tauranga City | 13326 | 10410 | 5310 | 29049 |
| Rotorua District (part) | 6333 | 6921 | 4116 | 17370 |
| Whakatane District | 3447 | 3528 | 2097 | 9072 |
| Kawerau District | 648 | 636 | 558 | 1845 |
| Opotiki District | 849 | 834 | 648 | 2331 |
| Bay of Plenty | 29820 | 26517 | 14298 | 70635 |
| New Zealand | 425973 | 447894 | 193635 | 1067505 |

Table 7 Household Composition, New Zealand, Bay of Plenty region and districts, 2006

| | One-Person Household | One-Family Household | Two or More Families | Other Multiperson Household | Household Composition Unidentifiable | Total |
|--------------------------------|-------------------------|-------------------------|----------------------|-----------------------------------|--|---------|
| Western Bay of Plenty District | 3048 | 11208 | 324 | 399 | 468 | 15441 |
| Tauranga City | 9414 | 27447 | 780 | 1794 | 516 | 39951 |
| Rotorua District (part) | 5127 | 15834 | 741 | 945 | 573 | 23220 |
| Whakatane District | 2472 | 8253 | 399 | 369 | 216 | 11709 |
| Kawerau District | 558 | 1650 | 96 | 75 | 18 | 2394 |
| Opotiki District | 762 | 2130 | 99 | 102 | 96 | 3189 |
| Bay of Plenty | 21192 | 65661 | 2418 | 3648 | 1857 | 94773 |
| New Zealand | 328302 | 985542 | 39609 | 72660 | 28065 | 1454175 |

Table 8 Motor Vehicle Availability, New Zealand, Bay of Plenty region and districts, 2006

| | No Motor Vehicle | One Motor Vehicle | Two Motor Vehicles | Three or More Motor Vehicles | Not Elsewhere Included | Total |
|--------------------------------|---------------------|----------------------|-----------------------|---------------------------------|------------------------|---------|
| Western Bay of Plenty District | 627 | 4707 | 6588 | 2733 | 783 | 15441 |
| Tauranga City | 2556 | 15705 | 15126 | 5343 | 1224 | 39951 |
| Rotorua District (part) | 1782 | 8526 | 8316 | 3444 | 1155 | 23220 |
| Whakatane District | 948 | 4254 | 4245 | 1710 | 549 | 11706 |
| Kawerau District | 276 | 1008 | 741 | 288 | 81 | 2394 |
| Opotiki District | 327 | 1344 | 942 | 360 | 216 | 3189 |
| Bay of Plenty | 6504 | 35226 | 35448 | 13626 | 3969 | 94773 |
| New Zealand | 112758 | 527844 | 531627 | 222201 | 59742 | 1454175 |

Table 9 Access to Telecommunications, New Zealand, Bay of Plenty region and districts, 2006

| | No Access to Telecommunications | Access to Telephone | Access to Cellphone | Access to Fax | Access to Internet | Total |
|--------------------------------|---------------------------------|---------------------|---------------------|------------------|-----------------------|---------|
| | | | | | | |
| Western Bay of Plenty District | 270 | 13311 | 11262 | 5640 | 8862 | 15441 |
| Tauranga City | 633 | 35526 | 29145 | 10452 | 23046 | 39951 |
| Rotorua District (part) | 732 | 18954 | 16419 | 5199 | 11901 | 23220 |
| Whakatane District | 543 | 9702 | 7641 | 2793 | 5868 | 11709 |
| Kawerau District | 165 | 1848 | 1647 | 384 | 1017 | 2394 |
| Opotiki District | 282 | 2325 | 1641 | 696 | 1146 | 3189 |
| Bay of Plenty | 2610 | 80688 | 66852 | 24687 | 51156 | 94773 |
| New Zealand | 28407 | 1277322 | 1034529 | 362040 | 843738 | 1454175 |

Table 10 Means of Home Heating, New Zealand, Bay of Plenty region and districts, 2006

| | Electricity | Mains Gas | Bottled Gas | Wood | Coal | Solar Power | No Fuels Used | Other Fuel(s) | Not Specified | Total |
|--------------------------------|-------------|--------------|----------------|--------|-------|----------------|---------------------|------------------|------------------|---------|
| Western Bay of Plenty District | 8772 | 552 | 5511 | 8109 | 393 | 423 | 312 | 267 | 852 | 15687 |
| Tauranga City | 26082 | 5142 | 15252 | 10179 | 792 | 576 | 1074 | 555 | 1383 | 40494 |
| Rotorua District (part) | 13605 | 3036 | 6915 | 12225 | 969 | 189 | 309 | 1089 | 1218 | 23577 |
| Whakatane District | 7041 | 369 | 3963 | 6297 | 399 | 222 | 201 | 174 | 588 | 11883 |
| Kawerau District | 1317 | 225 | 753 | 1530 | 84 | 21 | 33 | 54 | 84 | 2418 |
| Opotiki District | 1602 | 87 | 1131 | 1749 | 96 | 54 | 114 | 54 | 240 | 3249 |
| Bay of Plenty | 57753 | 9384 | 33195 | 39171 | 2700 | 1470 | 2040 | 2163 | 4332 | 96165 |
| New Zealand | 1051095 | 185826 | 388746 | 574482 | 98226 | 15159 | 33177 | 29304 | 66189 | 1471746 |

Table 11 Unemployment Rates, Population Aged 15 Years and Over, New Zealand, Bay of Plenty region and districts, 2006

| | Employed Full-time | Employed Part-time | Unemployed | Total Labour Force | Not in the Labour Force | Labour Force Status Unidentifiable | Total |
|--------------------------------|-----------------------|-----------------------|------------|-----------------------|-------------------------------|--|---------|
| Western Bay of Plenty District | 15294 | 5103 | 978 | 21378 | 10059 | 1530 | 32967 |
| Tauranga City | 37071 | 11883 | 2625 | 51582 | 28575 | 1893 | 82047 |
| Rotorua District (whole) | 23883 | 6939 | 2172 | 32994 | 14187 | 2055 | 49239 |
| Whakatane District | 10863 | 3570 | 1251 | 15678 | 8118 | 1005 | 24798 |
| Kawerau District | 1809 | 600 | 381 | 2790 | 2007 | 180 | 4974 |
| Opotiki District | 2478 | 888 | 366 | 3735 | 2394 | 378 | 6504 |
| Bay of Plenty | 89892 | 28578 | 7722 | 126192 | 64950 | 6963 | 198108 |
| New Zealand | 1531017 | 454758 | 106500 | 2092275 | 961788 | 106311 | 3160374 |

Table 12 Employment by Industry Group, Labour Force Aged 15 Years and Over, New Zealand, Bay of Plenty region and districts, 2006

| Industry Group | Western Bay of Plenty District | Tauranga City | Rotorua District (whole) | Whakatane District | Kawerau District | Opotiki District | Bay of Plenty | New Zealand |
|---|-----------------------------------|------------------|-----------------------------|-----------------------|---------------------|---------------------|------------------|----------------|
| Agriculture, Forestry and Fishing | 4341 | 1395 | 2355 | 1950 | 126 | 840 | 10143 | 135426 |
| Mining | 75 | 36 | 30 | 18 | 3 | 0 | 153 | 4155 |
| Manufacturing | 1965 | 5193 | 3333 | 1638 | 582 | 138 | 12708 | 217758 |
| Electricity, Gas, Water and Waste Services | 45 | 189 | 207 | 126 | 15 | 9 | 582 | 9738 |
| Construction | 1899 | 5451 | 2097 | 1113 | 165 | 243 | 10887 | 149361 |
| Wholesale Trade | 696 | 2373 | 1176 | 312 | 48 | 72 | 4638 | 98340 |
| Retail Trade | 1569 | 6102 | 3207 | 1551 | 228 | 315 | 12879 | 196062 |
| Accommodation and Food Services | 693 | 2598 | 2757 | 621 | 108 | 183 | 6897 | 111102 |
| Transport, Postal and Warehousing | 726 | 2424 | 1155 | 435 | 96 | 75 | 4839 | 81771 |
| Information Media and Telecommunications | 108 | 534 | 261 | 129 | 12 | 18 | 1059 | 37650 |
| Financial and Insurance Services | 360 | 1296 | 546 | 243 | 42 | 33 | 2505 | 64143 |
| Rental, Hiring and Real Estate Services | 720 | 1701 | 744 | 315 | 36 | 69 | 3558 | 54543 |
| Professional, Scientific and Technical Services | 1089 | 3492 | 1911 | 657 | 60 | 99 | 7242 | 154215 |
| Administrative and Support Services | 786 | 1494 | 837 | 351 | 69 | 96 | 3591 | 66195 |
| Public Administration and Safety | 354 | 1332 | 1062 | 555 | 54 | 87 | 3408 | 81321 |
| Education and Training | 1110 | 3138 | 2451 | 1377 | 234 | 348 | 8529 | 142113 |
| Health Care and Social Assistance | 1539 | 4836 | 2790 | 1242 | 180 | 222 | 10746 | 160287 |
| Arts and Recreation Services | 219 | 645 | 792 | 147 | 15 | 42 | 1827 | 32685 |
| Other Services | 756 | 2202 | 1269 | 594 | 114 | 108 | 5001 | 77811 |
| Not Elsewhere Included | 1347 | 2532 | 1845 | 1065 | 222 | 369 | 7278 | 111111 |
| Total Industry | 20400 | 48957 | 30822 | 14430 | 2409 | 3366 | 118470 | 1985778 |

Table 13 Highest Qualification Attained, Population Aged 15 Years and Over, New Zealand, Bay of Plenty region and districts, 2006

| | No Qualification | School Qualification | University or Other Tertiary | Not Specified | Total |
|--------------------------------|---------------------|-------------------------|---------------------------------|---------------|---------|
| Western Bay of Plenty District | 8394 | 14742 | 5928 | 3906 | 32967 |
| Tauranga City | 19644 | 38325 | 16038 | 8043 | 82050 |
| Rotorua District (whole) | 12267 | 22047 | 8706 | 6216 | 49239 |
| Whakatane District | 6888 | 10560 | 3990 | 3360 | 24798 |
| Kawerau District | 1827 | 2028 | 417 | 699 | 4974 |
| Opotiki District | 2235 | 2454 | 786 | 1032 | 6504 |
| Bay of Plenty | 50685 | 88959 | 35421 | 23040 | 198108 |
| New Zealand | 708429 | 1407783 | 716139 | 328014 | 3160374 |

Table 14 Highest Qualification by Ethnicity, Population Aged 15 Years and Over, New Zealand, Bay of Plenty region and districts, 2006

| | No Qualification | School Qualification | University or Other Tertiary | Not Specified | Total |
|----------|---------------------|-------------------------|---------------------------------|------------------|--------|
| European | 32670 | 62427 | 25512 | 8991 | 129594 |
| Maori | 15591 | 18087 | 4647 | 5214 | 43539 |
| Other | 7047 | 17073 | 7935 | 2412 | 34464 |

Table 15 Total Personal Income, Population Aged 15 Years and Over, New Zealand, Bay of Plenty region and districts, 2006

| | Loss | 0\$-\$15,000 | \$15,001-\$30,000 | \$30,001-\$40,000 | \$40,001 - \$50,000 | \$50,001 - \$70,000 | \$70,001 plus | Not Stated |
|-----------------------------------|-------|--------------|-------------------|-------------------|---------------------|---------------------|---------------|------------|
| Western Bay of Plenty District | 294 | 9951 | 7992 | 4131 | 2475 | 2646 | 1974 | 3510 |
| Tauranga City | 366 | 24564 | 21030 | 10824 | 6564 | 6999 | 4695 | 7005 |
| Rotorua District (whole) | 228 | 14103 | 11856 | 6543 | 3876 | 3993 | 2655 | 5988 |
| Whakatane District | 150 | 7668 | 5805 | 2658 | 1668 | 2016 | 1539 | 3291 |
| Kawerau District | 21 | 1896 | 1101 | 399 | 267 | 321 | 264 | 699 |
| Opotiki District | 48 | 2358 | 1596 | 606 | 333 | 327 | 195 | 1044 |
| Bay of Plenty | 1092 | 60024 | 48870 | 24771 | 14946 | 16005 | 11058 | 21342 |
| New Zealand | 17355 | 948915 | 695040 | 404070 | 262299 | 281157 | 230643 | 320892 |

Table 16 Personal Income by Ethnicity, Population Aged 15 Years and Over, Bay of Plenty region, 2006

| | Loss | \$0-\$15,000 | \$15,001-\$30,000 | \$30,001-\$40,000 | \$40,001-\$50,000 | \$50,001-\$70,000 | \$70,001+ | Not Stated | Total |
|----------|------|--------------|-------------------|-------------------|-------------------|-------------------|-----------|------------|--------|
| European | 642 | 40584 | 33837 | 17235 | 10545 | 11463 | 8157 | 7134 | 129597 |
| Maori | 249 | 15354 | 11385 | 5088 | 2607 | 2292 | 1089 | 5478 | 43539 |
| Other | 288 | 9951 | 8151 | 4737 | 3009 | 3453 | 2466 | 2421 | 34461 |

Table 17 Types of Benefits Received by Population Aged 15 Years and Over, New Zealand, Bay of Plenty region and districts, 2006

| | Unemployment Benefit | Sickness Benefit | Domestic Purposes Benefit | Invalids Benefit | Other Benefits | Total |
|--------------------------------|-------------------------|------------------|------------------------------|------------------|----------------|---------|
| Western Day of Dlanty District | 40/ | 20/ | 20/ | 20/ | 20/ | 22007 |
| Western Bay of Plenty District | 1% | 2% | 3% | 2% | 3% | 32967 |
| Tauranga City | 2% | 2% | 4% | 2% | 4% | 82050 |
| Rotorua District (part) | 4% | 3% | 5% | 2% | 3% | 46659 |
| Whakatane District | 6% | 3% | 5% | 2% | 3% | 24798 |
| Kawerau District | 10% | 3% | 7% | 5% | 3% | 4974 |
| Opotiki District | 9% | 4% | 6% | 3% | 3% | 6507 |
| Bay of Plenty | 3% | 3% | 4% | 2% | 3% | 198108 |
| New Zealand | 3% | 2% | 3% | 2% | 3% | 3160371 |

Table 18 Family Income, New Zealand, Bay of Plenty region and districts, 2006

| | \$0 - \$15,000 | \$15,001 - \$30,000 | \$30,001 - \$40,000 | \$40,001 - \$50,000 | \$50,001 - \$70,000 | \$70,001 plus | Not Stated | Total |
|--------------------------|----------------|---------------------|---------------------|---------------------|---------------------|---------------|------------|---------|
| Western Bay of Plenty | | | | | | | | |
| District | 471 | 1989 | 1251 | 1035 | 2088 | 3471 | 1491 | 11874 |
| Tauranga City | 1128 | 5181 | 3066 | 2541 | 4986 | 8526 | 3567 | 29052 |
| Rotorua District (whole) | 897 | 2796 | 1608 | 1437 | 2946 | 5007 | 2646 | 17370 |
| Whakatane District | 501 | 1566 | 804 | 660 | 1317 | 2484 | 1725 | 9072 |
| Kawerau District | 132 | 462 | 168 | 153 | 216 | 360 | 348 | 1845 |
| Opotiki District | 180 | 564 | 237 | 177 | 288 | 378 | 507 | 2331 |
| Bay of Plenty | 3297 | 12480 | 7065 | 5931 | 11667 | 19839 | 10167 | 70635 |
| New Zealand | 45549 | 156534 | 94830 | 82893 | 169914 | 366462 | 148347 | 1067502 |

Appendix 2 – Glossary of Terms

Employment Status - A respondent's employment status within the labour force. This applies to persons in full and part-time employment. Employment status categories are: paid employee; self-employed and without employees; employer; and unpaid family worker.

Ethnicity - Ethnicity is the ethnic group or groups that people identify with or feel they belong to. Thus, ethnicity is self-perceived and people can belong to more than one ethnic group. Ethnicity is a measure of cultural affiliation, as opposed to race, ancestry, nationality or citizenship. An ethnic group is a social group whose members have the following four characteristics:

- share a sense of common origins;
- claim a common and distinctive history and destiny;
- possess one or more dimensions of collective cultural individuality;
- feel a sense of unique collective solidarity.

Equivalisation – Methods used as control for family composition.

Family Income - Family income is the combined gross total income that persons aged 15 years and over in a co-resident family receive.

Family Type - For census purposes the 'family' is defined as two or more people, who are members of the same household, and who comprise either a couple, or at least one parent-child relationship. Three categories are used to describe the family: One-Parent, Two-Parent, and Couple-Only families.

Highest Qualification - The highest completed educational award attained as the result of formally recognised learning gained by people aged 15 years and over.

Household Composition - Refers to the nature of a household based upon usual composition. A household may consist of one or more families, or it may be a non-family household, or a one-person household.

Income Support - Refers to government funded payments, benefits and pensions received from either the department of Social Welfare or the Accident Compensation Corporation (ACC).

Industry - Industry is the type of activity undertaken by the organisation, enterprise, business or unit or economic activity within which a person is employed. Any individual business can be assigned an appropriate industry category on the basis of its predominant activity, which is the main income producing activity of a business.

Iwi Affiliations - Refers to the connections a person of New Zealand Maori ancestry has with a tribe or tribes (iwi). Included are the main (primary) iwi to which a person of Maori ancestry belongs as well as any other (secondary) iwi with which such person has strong ties (i.e. tribes which are important to that person).

Labour Force - The labour force consists of people aged 15 years and over who regularly work for one or more hours per week for financial gain, or as an unpaid worker in a family business. Also included are people who are unemployed and actively seeking either full-time or part-time work.

Labour Force Status - Labour Force Status is the position of all people aged 15 and over in relation to the labour market.

Maori Ancestry - People have Maori ancestry if they consider they have Maori ancestors no matter how distant.

Mortality - Mortality is a health status indicator that measures the rate and cause of death among population groups. Common mortality measures are life expectancy, survivorship rates, cause of death, and general mortality rates (i.e. rate of death per 100,000 population).

Motor Vehicles - Number of motor vehicles is the number of motor vehicles which are mechanically operational, but not necessarily licensed or having a current Warrant of Fitness, and are available for private use by the usual residents of private dwellings.

Occupation - An occupation is a set of jobs that involve the performance of a common set of tasks. It refers to the job, trade, profession or type of work in which a person is employed for financial reward or as an unpaid worker in a family business.

Personal Income - Defined as the total income, including income support, before tax that a person aged 15 years and over received from all sources for the preceding financial year.

Population Density - The number of people relative to the space around them (e.g. number of residents per hectare).

Population Projections - A type of estimate that calculates (predicts) changes in population characteristics in the future. This estimate makes certain assumptions about the future course of fertility, mortality and migration. Population projections are guidelines rather than exact forecasts. They ignore non-demographic factors (e.g. catastrophes, war, and major government and business decisions) which could have significant effects on future population growth.

Private Dwelling - A private dwelling is any dwelling, either permanent or temporary, which is occupied by a private household. Permanent private dwellings include houses and flats, residences attached to a business or institution, baches, cribs and huts. Caravans, cabins, tents and other makeshift dwellings that are the principal or usual residence of households are classified as temporary private dwellings.

Rohe - A territory or boundary which defines the areas within which a tangata whenua group claims traditional association and mana whenua (customary authority exercised by iwi or hapu in an identified area).

Telephone Access - Access to a telephone refers to the availability of a working telephone located in the dwelling. 'Telephones' include cordless telephones and some cell phones. Cell phones are treated as a telephone if they are predominately located in the household when members are at home.

Tenure - Tenure is the nature of occupancy of a permanent private dwelling, but not the land it stands on. Categories of private dwelling tenure are dwelling owned or partly owned and dwelling not owned by usual resident (i.e. rented).

Unemployed - Persons who are unemployed are not working in a paid job, business, farm or profession at census date, but had looked for either full-time or part-time work in the four weeks preceding the census.

Usually Resident Population - Refers to all people counted during a census who usually live in New Zealand (and sub-regions of New Zealand) and excludes people usually resident overseas and New Zealand residents who usually live overseas. The definition is generally based on a person's self-identified usual address.

Appendix 3 – Technical notes about population projections

1.1 **Projections method**

A "Cohort-Component" method is used to derive the population projections. In this method, the base population is projected forward by calculating the effects of births, deaths, and migration within each age and sex group according to the specified fertility, mortality, and net migration assumptions.

1.2 Base population

The base (or starting) population for the population projections is the estimated resident population at 30 June 2006. This population was calculated by adjusting the 2006 Census usually resident population for undercount and New Zealand residents temporarily overseas at that date. The populations were then updated for births, deaths, and permanent and long-term migration between 5 March 2006 and 30 June 2006.

1.3 **Projection assumptions**

Assumptions are formulated regarding future levels of fertility, mortality, and migration. These assumptions take into account historical demographic trends and characteristics of each Territorial Authority. They also take into account the assumptions adopted by the 2006-base New Zealand population projections.

1.4 Nature of projections

The population projections are based on assumptions made about future fertility, mortality, and net migration. Although the assumptions are carefully formulated to represent future trends, they are subject to uncertainty. The projections should therefore be used as guidelines rather than exact forecasts. They measure the changes in the population size and age composition that will occur if the stated assumptions were to apply over the projection period. The projections ignore non-demographic factors (e.g. catastrophes, war, etc) which may invalidate the projections.

Appendix 4 – NZDep06 Variables[†]

The *NZDep06* index of deprivation combines nine variables from the 2006 census reflecting eight dimensions of material and social deprivation. These dimensions reflect lack of income, communication, employment, transport, qualifications, support, living space and an owned home.

The index reflects a continuum from lack of deprivation to deprivation, rather than from affluence to deprivation. All the variables in *NZDep06* reflect a lack of something. Technically, the variables make sense. Deprivation scores in areas known to the researchers were as expected. There is no unexpected pattern to the geography or demography for the areas with the worst extreme values, that is the most and least deprived.

A list of the variables used in *NZDep06* is given in the following table and described in more detail below.

Table 1 Description of the nine variables, in decreasing importance, used to construct the New Zealand Index of Deprivation 2006

| Deprivation domain | Census variables |
|--------------------|--|
| Income | aged 18–64 years receiving a means-tested benefit |
| Income | living in households with equivalised income below an income threshold |
| Owned home | not living in own home |
| Support | aged under 65 years living in a single-parent family |
| Employment | aged 18-64 years and unemployed |
| Qualifications | aged 18–64 years and without any qualifications |
| Living space | living in households below an equivalised bedroom occupancy threshold |
| Communication | with no access to a telephone |
| Transport | with no access to a car |

1.1 **Means tested benefits**

The means tested benefits included in the definition of this variable changed as a result of changes to the question in the 1996 census. Means tested benefits included in the *NZDep96* version of this variable are: domestic purposes benefit, sickness benefit, invalid's benefit, and other government benefits, income support payments or war pensions.

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[†] This appendix is based on extracts from White et al. (2008).

1.2 Household income

Equivalised household income was used for calculating the income variable so that, for example, the standard of living of a household consisting of a single person with an income of \$40,000 could be compared to that of a household consisting of two adults and six children on an income of \$40,000,

Equivalised annual household income was calculated using the median income for each of the income bands used in the 2006 census.

1.3 **Dwellings not owner occupied**

The housing tenure variable is: proportion of people in dwellings not owner occupied. The "rented or leased" census variable value was used to capture not owner occupied. The census variable value "provided rent free" was treated as not specified since it was not possible to determine whether this represents an advantage or a disadvantage (for example, both a farm labourer and a multinational company executive could have accommodation provided rent free).

1.4 Single parent families

The following are abbreviated versions of Statistics New Zealand definitions:

- A family consists of a couple (legal or defacto marriage) with or without children, or one parent with children (i.e. a brother and a sister is not a family);
- A household is a group of people who live together whether related or not; and
- A dwelling is the physical structure occupied by a household.

If a three-generation family lives in a dwelling, Statistics New Zealand creates two families, but each person is only counted once.

Therefore:

- There may be more than one family per household (and therefore per dwelling);
 and
- The sum of occupants of households equals the sum of all people in families and all people not in families.

Our definition of the proportion of single parent families variable is: people less than 60 in a single parent family with dependent children as a proportion of all people under 60.

To derive this we carried out the followings steps:

- Assigned single parent family status (yes/no) to all people aged less than 60 in families by merging family information with personal information;
- Calculated the numerator by summing the number of people aged less than 60 years in single parent families with dependent children only, and those in single parent families with dependent children and adult children (but not those in single parent families with adult children only); and

3 Calculated the denominator by summing all people aged less than 60 years.

The denominator includes everyone aged under 60 years (i.e. those considered to be at risk of being in a single parent family). This variable is restricted to those aged under 60 years in order to avoid inflation of the denominator by large numbers of elderly people who are less likely to be in a single parent family.

1.5 **Unemployed**

The unemployed variable refers only to the 18 to 59 year age group.

1.6 **No qualifications**

The no qualifications variable refers only to the 18 to 59 year age group. No qualification indicated that no qualification has been obtained from a completed course.

1.7 Occupancy

Occupancy describes the relationship between housing space available and persons usually resident in the house. For deprivation purposes, the extreme of an occupancy scale is used. It is usually called overcrowding.

The definition of occupancy used in deriving our indices was: any household with greater than one person-equivalent per bedroom. A person-equivalent was defined as: children age 10 and over are equivalent to one adult; children age under 10 are equivalent to half an adult. The threshold value, one, was determined by examining the national distribution of equivalent occupants per bedroom for the usually resident population in private dwellings with number of bedrooms specified.

Rooms other than bedrooms were excluded from the definition because anecdotal evidence suggested that census data relating to "other rooms" is less accurate than that relating to "bedrooms".

1.8 Access to a telephone

This question was included for the first time in the 1996 Census of Population and Dwellings. The access to telephone variable is consistent with the theory of deprivation, and was included in the principal components analysis, and subsequently in *NZDep96*, *NZDep01* and *NZDep06*. The definition of the variable is the proportion of people without access to a telephone in their dwelling (private dwellings only).

1.9 Access to a car

This variable was changed from proportion of adults with no access to a car, to proportion of people with no access to a car. The rationale for this change is that cars (access to transport) have relevance to children as well as adults.