



2014 Review of Demographic and Labour Force Projections for the Bay of Plenty Region for the Period 2013 - 2063

- Appendices -

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A. Background to Methodology and Responses to Stakeholder Questions

As noted in the Introduction to the Report, the process of developing the 2014 SmartGrowth Revision was accompanied by an extensive period of consultation involving researchers from the National Institute of Demographic and Economic Analysis (NIDEA), the SmartGrowth Implementation Group (SGIMG), key stakeholders and elected members. Key issues that emerged from these consultations and were important to the methodology are briefly outlined below.

1. The Baseline Population

A central issue was that of the most appropriate baseline population on which to develop the projections, given the delayed 2011 Census and the fact that 2013 Census data would begin to become available from December 2013. A related issue concerned the need of some Councils, particularly Rotorua DC, to know the future size of their visitor populations.

Many times, the research team was asked why the Census Night population could not be used as the base. The reason is as follows. The Census Night population count includes both people who normally reside elsewhere in New Zealand, and visitors from overseas. It is missing those who normally live in the area, but were elsewhere on census night, including temporarily overseas, and people who were missed in the enumeration process (Census Night undercount).

These anomalies are accounted for in the second level of census data output: the 'Usually Resident Population Count' (URPC). For the URP Count, Statistics New Zealand (SNZ) reassigns residents of New Zealand to the meshblock of their normal residence via their postcode, and subtracts visitors from overseas. However even this level of data is problematic for the development of population projections because it is still missing local people who were temporarily overseas on census night, and an adjustment for census night undercount.

These final adjustments are made by SNZ in the 'Estimated Resident Population' (ERP) count, with the data for the year ended in June conventionally used by Local Government Councils as the basis for their population monitoring and reporting. Furthermore, because the Census is held in March, there is a further adjustment in the ERP to account for births, deaths and migration occurring in the period to the end of June. It should be noted that the term 'estimated' thus has a somewhat different meaning to its conventional usage, which implies that the ERP is an 'estimate awaiting refinement'. The ERP is the most refined population count.

Complicating the story is that the 30 June 2013 ERP released by SNZ in December 2013 was not in fact 2013 census-based, but was still based on the 2006 census, with quarterly adjustments having been made throughout the seven years since the 2006 census was taken. The 30 June 2013 based on the 2013 census will not be released until later in 2014.



NIDEA researchers were thus faced with the need to choose an appropriate baseline population for each TLA and to make adjustments that would most closely approximate the age-sex distribution of each population at the 2013 census. As outlined in the Methodology Chapter of the Report, the base populations ultimately used for the projections were drawn from the 30 June ERP obtained from Statistics New Zealand (SNZ). Because the ERP is only reported by SNZ in 5-year age groups, the single-year age groups necessary for the population projection model were derived by interpolating the ERP at 30 June for each TLA using the Census Usually Resident Population Count by single-year-of-age from the 2013 Census of Population and Dwellings. Separate interpolations were undertaken for each sex.

To return to the issue of visitor counts, it must be acknowledged that there are legitimate reasons why some Councils would see the Census Night data as being more appropriate for their needs. The information is critically important for those concerned with providing facilities and services for business visitors, tourists and 'day trippers'. However the development of projections requires the application of not only migration assumptions, but also fertility and mortality (life expectancy/survivorship) rates to the population by age. It is neither possible nor practicable to know or apply the fertility and life expectancy rates of a region's visitors, as these rates differ by region, country of birth etc. These visitors also 'belong' to the populations where they normally reside and form part of the baseline populations for other councils' projection needs.

The NIDEA research team also argue that visitor numbers need to be treated separately as they imply the need for quite different elements of infrastructure and resources. Analysis of visitor data also requires both extensive time series modelling and global economic assumptions, involving a quite different methodology to that used for demographic projections. BERL would be much better placed to do visitor night projections.

NIDEA researchers also note that there is likely to be significant undercounting of overnight stays from the 2013 Census (i.e., the difference between the census night count and the usual residence population of each area), due to the way the 2013 Census was run. In past censuses, people have been required to fill out the census form on census night and thus to do it from wherever they are staying that night. For the 2013 Census, people were told that they could fill their form out anytime once they had their forms or their online login. Anecdotal evidence suggests that large numbers of people filled their forms in at (or pertaining to) their home address, irrespective of where they would be on census night. Thus any analysis of visitor/day tripper populations based on the 2013 Census is going to be partial at best, and will not align with time-series data. The issue has been confirmed by SNZ.

NIDEA also notes that SNZ runs a monthly Accommodation Survey that collects visitor nights, which would be a much better dataset for developing visitor projections on than the Census. Services providing accommodation have a statutory obligation to complete the accommodation survey, so it is reasonably comprehensive.

2. Demographically-based projections versus target-based projections

A second issue which arose during the consultation period was that of the difference between demographically-based population projections of the type NIDEA do, and 'target-based' projections.

As far as NIDEA has been able to ascertain, the population projections referred to in reports citing the Rotorua GA 11 Growth Assumptions (for both 2008 and 2011) are not demographically-based projections, but rather, projected 'targets'. There is an enormous difference between both the methodology and the validity of projections and targets (MHW, 2011, Telfer Young, 2012).

The GA 11 based reports and the growth assumptions on which they are based make an *a priori* assumption of an annual growth rate of 0.6%, with the figure of 1.3% annual growth also modelled. There is also a stated desire to grow at 0.1% faster than total New Zealand (Telfer Young, 2012, p. 6). These are not demographic assumptions in the way that demographers use the term or apply the methodology.

As outlined in the Methodology, demographically based population projections are based on assumptions about future fertility, mortality, and migration rates in terms of age-specific patterns of the particular variable, and these assumptions are applied to the base populations by sex and single year of age. These assumptions can incorporate local views about the likely social and economic future of the area, but generally abide by common sense parameters - like birth rates remaining within the vicinity of regional and national level trends, life expectancy increasing, but only to a regionally or nationally comparable level, etc. Visions of economic growth or decline are almost exclusively factored in through the migration variable; for example, high net gains/low net losses when economic conditions are good; low net gains/higher net losses when they are poor. Under the standard cohort component method, the assumptions are then applied, one variable at a time, one year at a time. Births are split according to the sex ratio at birth (105 males: 100 females) and inserted at age 0; the 'survived and migrated' numbers at each other age are 'aged' by one year, and the process is repeated. Out of this exercise, the annual average growth rate is derived; the process does not begin with it.

From our reading of the use of the GA 11 assumptions we have also gleaned that the region's household numbers have been projected by applying average household size to the projected (i.e., 'target') population numbers (Telfer Young, 2012, pp. 6-7). This approach does not allow



for change in certain demographics, for example, growth at 65+ years, where average household size will be lower, or decline at young parenting ages, where average household size will be higher.

By contrast, NIDEA researchers develop the demographic projections first, and then apply given average household sizes to broad age bands, to derive the future number of households.

3. How do the NIDEA projections line up with BERL's scenarios?

A third issue was the need for correspondence between the economic scenarios developed by BERL (2013a), and the NIDEA projections. While the two reports look at potential population numbers in the future, the NIDEA projections are based on births, survivorship and net migration, while the BERL report (2013a) is based on a projected population growth rate with no demographic underpinning.

The economic scenarios developed by BERL are scenarios of the future economic context based primarily on considerations of industrial change. BERL's 'Reality Check' scenario is the only one of the three that takes account of demographic change (BERL, 2013a, p. 15). However their modelling does not use demographic data – rather, the Reality Check scenario is developed *cognisant* of the context of population ageing. In fact it is the Reality Check scenario that we are projecting in terms of population. NIDEA researchers also argue that structural ageing is not an 'optional' future - it is the future and therefore the scenario that will unfold. This is what BERL is alluding to on page 15 of their report.

4. How does population ageing affect the labour market?

A more general question that emerged several times was how population ageing is likely to affect the future labour market. Related aspects are discussed in Chapter 6 of the Report, which outlines a selected range of factors likely to affect the projections going forward. Following is a little more detail.

Demographers, labour market and population economists are anticipating a 'demographically-tight' labour market for at least the next 12-15 years, by which is meant there will be increasingly fewer labour market 'entrants' than 'exits'. Looking ahead at the pool of potential labour (the labour *market*) there are currently – at national level - approximately 13 people at labour market entry age (15-24 years) for every 10 aged 55-64 years. This is projected to drop to 10 for 10 by 2021.

If we focus only on the employed labour force, the 2013 census showed that there are already just 6 people aged 15-24 years for every 10 at 55-64 years (down from 13 per 10 in 1996). Shifting the gaze to 20-29 and 55+ years, there are just 8 employed entrants per 10 in the retirement zone (down from 20 per 10 in 1996).



This situation will see an increase in skill and labour shortages, increased competition for labour, lower unemployment, and higher wages/labour costs. Once any elasticity in terms of current unemployment is absorbed, the situation is also likely to see an increase in employment, especially at older ages, as older workers remain longer in the workforce.

At the older end of the age spectrum, both labour force participation and employment is indeed going up. The 2013 census showed that the 65+ population has almost doubled its labour force participation rate since 2001, with 22.5 per cent now participating (29 per cent for men and 17 per cent for women), up from 11.6 per cent in 2001. The proportion (of the 65+ year labour force) working full-time has also increased, from 46.2 per cent in 2001 to 52.1 per cent in 2013 (an increase of 12.9 per cent). By sex, full-time rates increased from 53.5 to 60.6 per cent for males in 2001 and 2013 respectively (up 13.3 per cent), and for females, from 31.9 to 39.4 per cent (up 23.7 per cent). In 2001, just 23,400 people aged 65+ years were working full-time; in 2013 that was 68,600.

The Bay of Plenty Region's 65+ year population has similarly almost doubled its labour force participation rate, from 10.9 per cent in 2001 to 21.2 per cent in 2013 (95 per cent increase). The proportion working full-time has increased from 45.7 to 50.0 per cent, a slightly lower increase (9.3 per cent) than at national level (12.9 per cent). By sex, BOP males aged 65+ years increased their full-time rate from 52.4 to 58.6 per cent (up 11.9 per cent), and females, from 32.9 to 37.0 per cent (up 12.3 per cent). The BOP's 65+ year population is thus working at similar rates to the national picture, but the increase has not been quite as marked, plausibly because a greater proportion of the BOP's 65+ year population is older (e.g., in 2013, 10 per cent of the BOP adult population was aged 75+ years, compared with 7.9 per cent nationally). Data for the Bay of Plenty's employed population aged 65-69 years is included in Chapters 5 and 6 of the Report.

5. Can migration solve the 'problem' of structural ageing?

SNZ's most recent national projections include an average annual net international migration gain of 12,000. It is unlikely that New Zealand will gain significantly more migrants than this over the medium and longer-term, as we will increasingly compete for migrants against our structurally older counterparts (New Zealand is the youngest of the developed countries). As outlined in Chapter 6 of the Report, over the period to 2031 the number of people aged 65+ years in the 58 most developed countries will increase by almost 100 million, adding to the current 200 million at those ages. All other age groups combined (0-64 years) are projected to decline by around 41 million; this is the primary pool from which New Zealand and other countries compete for most of their skilled migrants. Increasingly New Zealand's migrants will come for the less developed countries, where the only 'excess' of youth will be found.



International studies have shown that unless immigrant numbers are greatly increased, migration reduces structural ageing by a few percentage points only. Migrants also grow old, adding to the numbers of elderly (approximately one-quarter of New Zealand's population aged 65+ years was born overseas), and today's migrants have relatively low birth rates, thereby adding to structural ageing. It is important to note that two-thirds of New Zealand's migrants arrive on Long Term Visas (i.e., not Permanent Residence Visas) and thus come to work or study, not to settle and have families.

6. How do NIDEA projections at national level/major cities compare with Stats NZ?

The deterministic baseline projections developed by NIDEA for all TLAs of the Bay of Plenty Region are entirely consistent with those developed by SNZ to 2031. For the Western Bay of Plenty and Tauranga City the baseline projections at 2031 are lower than SNZ's high variant, and slightly higher than SNZ's medium variant. Both baseline projections are notably lower in 2031 than the Bedford (2001-base) projections developed in 2006 for the Western Bay of Plenty and Tauranga (Bedford, 2006). The baseline projections for Rotorua and Whakatane districts are almost identical to SNZ's medium variant out to 2031, and those for Kawerau and Opotiki slightly lower at the beginning of the projection period, with minimal difference at 2031.

Other projections undertaken by NIDEA for other clients and purposes, such as a set at DHB level based on developing underlying projections for all 67 TLAs, show almost identical trajectories, and most particularly a clear divergence between projections for New Zealand's 12 cities, and those for all other TLAs. Additional detail on these similarities with SNZ projections is given in Chapter 6.

7. What is happening as regards 'churn'?

The components of change (migration flows, births and deaths) for the Bay of Plenty Region and its TLAs were discussed in the Background Paper *Bay of Plenty Region and its Territorial Authorities Demographic Profile 1986-2031*, provided to SGIMG. The data were drawn from New Zealand's first Demographic Accounting Model recently developed by Jackson and Pawar (2013) as part of the MBIE-funded project 'Nga Tangata Oho Mairangi' (NTOM). Migration flows are also known as 'churn' but were not discussed in those terms in that Paper. Table A-1 provides an overview of those flows for each of the TLAs and for the Bay of Plenty Region. The data for 'known migration' indicate significant churn, with the internal flows increasing in magnitude for most TLAs and the overall region between 1996-2001 and 2001-2006, then reducing between 2008-2013. The picture is less consistent for Permanent-Long Term (PLT) movements but tend toward a continuing increase in churn over the period which is particularly clear at regional level. Information on the difference between 'Net Known Migration' and 'Estimated Net Migration' will be found in Jackson and Pawar (2013, p. 27).



Appendix A-1: Migration Flows (Churn) for the Bay of Plenty Region and its TLAs 1996-2001, 2001-06 and 2008-2013

	Internal In Migrants	Internal Out Migrants	Net Internal Migration	PLT Arrivals	PLT Departures	Net PLT Migration	Net Known Migration (1)	Residual Component of Migration (2)	Total Estimated Net Migration (3)
Western Bay of Plenty									
<i>1996 - 2001</i>	+9,501	-7,236	+2,265	+1,400	-2,122	-722	+1,543	+672	+2,215
<i>2001 - 2006</i>	+10,509	-9,282	+1,227	+1,987	-2,166	-179	+1,048	+1,964	+3,012
<i>2008 -2013</i>	+8,436	-7,710	+726	+2,217	-3,272	-1,055	-329	+974	+645
Tauranga City									
<i>1996 - 2001</i>	+21,690	-12,657	+9,033	+5,305	-7,680	-2,375	+6,658	+4,420	+11,078
<i>2001 - 2006</i>	+22,293	-15,672	+6,621	+7,590	-7,594	-04	+6,617	+4,263	+10,880
<i>2008 -2013</i>	+18,321	-14,679	+3,642	+8,396	-10,489	-2,093	+1,549	+1,973	+3,522
Rotorua District									
<i>1996 - 2001</i>	+9,084	-11,094	-2,010	+3,326	-4,982	-1,656	-3,666	+387	-3,279
<i>2001 - 2006</i>	+9,660	-11,199	-1,539	+4,237	-4,972	-735	-2,274	+424	-1,850
<i>2008 -2013</i>	+7,155	-8,811	-1,656	+4,546	-5,779	-1,233	-2,889	+416	-2,473
Whakatane District									
<i>1996 - 2001</i>	+5,190	-5,754	-564	+1,178	-1,991	-813	-1,377	-290	-1,667
<i>2001 - 2006</i>	+5,427	-5,985	-558	+1,580	-1,987	-407	-965	-11	-976
<i>2008 -2013</i>	+4,203	-4,743	-540	+1,490	-2,655	-1,165	-1,705	+399	-1,306
Kawerau District									
<i>1996 - 2001</i>	+1,128	-1,968	-840	+227	-480	-253	-1,093	-186	-1,279
<i>2001 - 2006</i>	+1,365	-1,683	-318	+240	-423	-183	-501	-50	-551
<i>2008 -2013</i>	+849	-1,131	-282	+186	-535	-349	-631	+38	-593
Opotiki District									
<i>1996 - 2001</i>	+1,563	-1,875	-312	+228	-459	-231	-543	+01	-542
<i>2001 - 2006</i>	+1,464	-1,935	-471	+278	-480	-202	-673	+57	-616
<i>2008 -2013</i>	+1,080	-1,437	-357	+335	-632	-297	-654	-49	-703
BAY OF PLENTY REGION									
<i>1996 - 2001</i>	+34,926	-26,262	+8,664	+11,664	-17,714	-6,050	+2,614	+4,175	+6,789
<i>2001 - 2006</i>	+34,719	-28,824	+5,895	+15,912	-17,622	-1,710	+4,185	+5,821	+10,006
<i>2008 -2013</i>	+26,991	-24,984	+2,007	+17,170	-23,362	-6,192	-4,185	+3,785	-400

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

Notes: (1) Net Internal Migration + Net PLT Migration; (2) Estimated Net Migration - Net Known Migration; (3) Net Change - Natural Increase



A selection of additional questions and feedback from workshop participants not covered in Chapter 6 of the Report follows:

Question: How do baseline projections take into account peaks due to seasonal workforce in Te Puke, due to horticulture?

Answer: Projections are undertaken on the basis of the Usually Resident Population, because it is inappropriate (and not feasible) to apply fertility or mortality assumptions to the seasonal workforce. Migrants *per se* are likely to have an impact on the future ethnic composition of the sub-region rather than increase total population numbers, because they will essentially replace those who have left/died (United Nations 2000 refers to international migration in the context of population ageing as 'replacement migration'). NIDEA suggested that because the age structure of those employed in the horticulture industry has increased among the most dramatically of all industries, younger migrants coming in will only just be replacing those going out.

Question: Temporary workers might settle here from other countries – has this been taken into account?

Answer: The migration figures incorporate what has actually happened in the recent past through the age-sex profile of migration, going back four census periods. The interim calibration weights these rates more heavily for the most recent period. The rates are applied to the baseline numbers by age and sex, and the process generates the number of migrants involved. We do not model numerical scenarios (i.e., a given number of migrants apportioned to the migration age profile) as Statistics New Zealand does, because as the population grows or declines, a constant number becomes a smaller or larger proportion.

Question: DHB asked whether NIDEA would be interested in other sources of data such as figures relating to primary healthcare enrolments published quarterly by the Ministry of Health as these could be used to show people moving around.

Answer: NIDEA will look at the figures; however cautioned about placing too much weight on these as young people move around a lot but don't dis-enrol with their PHO. Numbers are likely to be more robust among older age groups.

Question: Are Māori included in these figures?

Answer: Māori are included in the projections, first as part of the total baseline population of each TLA (which differs from the national population due to the larger BOP Māori population at younger ages), and secondly through the application of regionally-specific fertility and mortality rates which are respectively higher and lower for the Bay of Plenty and its TLAs due to the presence of the large Māori population. However the projections do not project the ethnic groups separately. NIDEA has done some experimental projections based on registry data (Māori roll) but this is still work in progress.



Question: How do the projections factor in the impact of the fluctuating economy on population growth?

Answer: Largely by assuming that past trends which include periods of fluctuation, will continue (i.e., fluctuations are essentially 'business as usual').

Question: What is the flattening of the growth rate 2006 – 2013 attributed to?

Answer: Lower international migration coupled with recession related to the Global Economic Crisis. SNZ figures for international migration show that PLT migration fluctuated widely over the period with very low-negative migration in 2011 and 2012: 10,078 in 2007; 4,732 in 2008; 12,515 in 2009; 16,500 in 2010; 3,867 in 2011; -3,191 in 2012 and 7,907 in 2013 (Statistics New Zealand, 2013).

Question: Which census period has been more heavily weighted in calibration process?

Answer: The most recent period has been given the most weight.

Question: In the previous set of SmartGrowth population projections undertaken by Professor Richard Bedford there was an assumptions that people would return to where they had come from in old age. Has this been factored in?

Answer: The data do not support this proposition - maybe because people move in old age to where there are better aged care facilities.

Question: What is the impact of technology change in labour force participation rates (LFPR)? Retirees haven't been trained in this area and will need retraining.

Answer: The impact of technology change on LFPR is contentious. It is likely to increase demand for both higher end skills and lower end skills (service industry); past technological change has also been incorporated through the historical base of the projections.

Question: Will a new University in the City have a significant impact on population projections?

Answer: The consensus view is that it would not be large enough to have the same effect on the population as Waikato with 13,000 students. It may mitigate the loss of young people; however this will largely depend on the types of courses offered. NIDEA confirmed that in Waikato the university has the effect of delaying by 5 years the out-migration of young people. Bay of Plenty Polytechnic conducts regular surveys re future study intentions. Top intended destinations for those planning future study are UoW and BOP Polytechnic based on the programmes offered – but it must also be noted that one of the top three reasons for leaving the Bay of Plenty was 'to move somewhere else'.



Question: Do house prices in Auckland have an impact on in migration to Tauranga?

Answer: PDF members confirmed that this factor has a significant impact on house sales, a lot of which is driven by relocating in the older age bracket. Tauranga misses out on the middle age group who are driven by the seeking of higher income. NIDEA confirmed that if this trend has been happening for a while it will be picked up in the modelling, which takes into account 'business as usual' trends.

Comment: The ageing population in NZ suggests that we need to change our policies around immigration to welcome more young migrants into the workforce.

NIDEA agreed but NZ is no different to the rest of the developed world in terms of structural ageing (except for being slightly younger) and we will face stiff competition in terms of attracting young migrants in the future.



B. Statistics New Zealand Migration Assumptions

Appendix B-1: SNZ net migration estimates for the Bay of Plenty TLAs (5-Year Totals)

Five-year period (ending 30 June)	Net migration		
	'Low' series	'Medium' series	'High' series
Western Bay of Plenty District			
2006-2011	+1200	+1700	+2200
2011-2016	0	+1000	+2000
2016-2031	+500	+1500	+2500
Tauranga City			
2006-2011	+4200	+5400	+6700
2011-2016	+500	+3000	+5500
2016-2031	+4500	+7000	+9500
Rotorua District			
2006-2011	-3000	-2400	-1800
2011-2016	-3600	-2400	-1200
2016-2031	-3200	-2000	-800
Whakatane District			
2006-2011	-1500	-1200	-1000
2011-2016	-1700	-1200	-700
2016-2031	-1500	-1000	-500
Kawerau District			
2006-2011	-600	-500	-400
2011-2016	-800	-600	-400
2016-2031	-700	-500	-300
Opotiki District			
2006-2011	-600	-500	-400
2011-2016	-700	-500	-300
2016-2031	-700	-500	-300

C. NIDEA Projections and Comparison with Statistics New Zealand

Appendix C-1: NIDEA 2014 Final Projections by Territorial Authority and Comparison with Statistics New Zealand (2012) Projections

	2013	2016	2021	2026	2031	2036	2041	2046	2051	2056	2061
Western Bay of Plenty District											
NIDEA	46110	47716	50757	53871	56615	58626	59571	59880	60094	60404	60633
SNZ (high)		49360	52790	56300	59530						
SNZ (med)		47520	49690	51680	53340						
SNZ (low)		45730	46540	47080	47260						
2006 projections		50,200	53800	57400	60500	63200	65300	67000	68400		
Tauranga City											
NIDEA	117280	122757	133655	145572	157162	167797	176291	182308	186770	190634	194713
SNZ (high)		126410	140000	154130	168410						
SNZ (med)		121730	131770	141960	151950						
SNZ (low)		117100	123620	130060	136000						
Rotorua District											
NIDEA	68590	68739	69260	69601	69385	68499	66665	64037	60979	57609	54114
SNZ (high)		71410	73640	75840	77780						
SNZ (med)		69100	69590	69810	69620						
SNZ (low)		66800	65430	63800	61620						
Whakatane District											
NIDEA	34230	33922	33862	33933	33649	32781	31149	29084	26983	24989	23212
SNZ (high)		35210	35800	36360	36700						
SNZ (med)		34240	34070	33780	33200						
SNZ (low)		33230	32310	31210	29770						
Kawerau District											
NIDEA	6710	6376	6050	5826	5628	5391	5082	4705	4275	3817	3354
SNZ (high)		6920	6860	6840	6720						
SNZ (med)		6560	6210	5830	5360						
SNZ (low)		6200	5540	4860	4070						
Opotiki District											
NIDEA	8580	8263	7953	7775	7533	7142	6655	6188	5785	5427	5061
SNZ (high)		9020	9010	8960	8880						
SNZ (med)		8680	8380	8030	7610						
SNZ (low)		8270	7730	7070	6410						

Statistics New Zealand, Subnational Population Projections by Age and Sex, 2006(base)-2031 (October 2012 update)



D. Projected Numbers by Age and Sex, 2013, 2033, 2063

Appendix D-1: Western Bay of Plenty

WBOP	2013		2033		2063	
	Males	Females	Males	Females	Males	Females
0-4	1,520	1,260	1,193	1,164	959	935
5-9	1,480	1,480	1,369	1,366	1,075	1,072
10-14	1,630	1,510	1,476	1,449	1,170	1,149
15-19	1,520	1,340	1,202	1,027	1,014	866
20-24	1,210	1,110	1,109	729	777	601
25-29	900	830	993	875	799	703
30-34	920	950	1,195	1,135	1,000	1,008
35-39	1,120	1,200	1,464	1,670	1,210	1,372
40-44	1,380	1,590	1,767	2,567	1,381	1,688
45-49	1,620	1,770	1,480	1,903	1,465	1,792
50-54	1,850	1,960	1,415	1,794	1,966	2,060
55-59	1,820	1,880	1,745	1,978	2,043	2,458
60-64	1,620	1,630	2,183	2,474	2,427	2,746
65-69	1,530	1,470	2,615	2,637	2,992	3,427
70-74	1,170	1,210	2,811	2,642	3,283	4,263
75-79	800	860	2,264	2,208	2,362	2,774
80-84	560	500	1,071	1,014	1,262	1,458
85+	370	540	809	752	1,593	1,533
Total	23,020	23,090	28,163	29,383	28,777	31,905

Appendix D-2: Tauranga City

Tauranga City	2013		2033		2063	
	Males	Females	Males	Females	Males	Females
0-4	4,150	4,000	4,005	3,724	4,075	3,789
5-9	4,100	3,820	4,052	3,744	4,108	3,795
10-14	3,980	3,620	4,192	3,950	4,249	4,002
15-19	3,700	3,520	3,754	3,600	3,879	3,719
20-24	3,640	3,350	3,297	3,535	3,273	3,382
25-29	3,100	3,380	3,196	3,595	3,207	3,578
30-34	3,130	3,490	3,221	3,653	3,386	3,975
35-39	3,180	3,410	3,664	4,344	3,770	4,481
40-44	3,670	4,210	4,669	4,893	4,098	4,821
45-49	3,630	4,110	4,221	4,837	4,295	5,034
50-54	3,660	4,110	4,227	4,638	4,749	5,688
55-59	3,220	3,770	4,242	4,371	5,095	5,864
60-64	3,030	3,420	5,310	5,990	5,666	6,319
65-69	2,970	3,400	6,466	6,879	7,498	8,246
70-74	2,490	2,880	7,917	7,843	11,513	10,425
75-79	1,950	2,350	7,226	7,217	11,299	10,710
80-84	1,480	1,990	3,339	3,511	6,203	6,297
85+	1,250	2,120	1,746	2,582	4,984	6,544
Total	56,330	60,950	78,741	82,905	95,345	100,668



Appendix D-3: Rotorua

Rotorua	2013		2033		2063	
	Males	Females	Males	Females	Males	Females
0-4	2,750	2,580	1,863	1,750	1,005	944
5-9	2,750	2,550	1,957	1,752	1,041	932
10-14	2,700	2,510	2,040	1,779	1,094	953
15-19	2,600	2,470	1,771	1,489	986	830
20-24	2,400	2,290	1,547	1,390	836	751
25-29	1,930	2,130	1,530	1,549	856	837
30-34	1,760	2,010	1,557	1,686	958	971
35-39	1,960	2,210	1,853	2,169	1,103	1,146
40-44	2,150	2,440	2,321	2,610	1,254	1,324
45-49	2,160	2,480	2,107	2,625	1,382	1,522
50-54	2,330	2,490	1,932	2,589	1,557	1,850
55-59	1,960	2,120	2,078	2,793	1,650	2,116
60-64	1,770	1,880	2,265	2,993	1,758	2,306
65-69	1,510	1,550	2,229	2,861	2,101	2,911
70-74	1,160	1,180	2,379	2,691	2,503	3,331
75-79	720	850	1,863	2,031	2,037	2,845
80-84	520	660	924	966	1,075	1,436
85+	370	690	599	591	1,125	1,377
Total	33,500	35,090	32,812	36,314	24,320	28,382

Appendix D-4: Whakatane

Whakatane	2013		2033		2063	
	Males	Females	Males	Females	Males	Females
0-4	1,260	1,260	864	825	461	439
5-9	1,370	1,250	890	850	470	448
10-14	1,350	1,250	872	854	468	459
15-19	1,290	1,130	657	673	371	381
20-24	1,140	1,060	480	637	263	331
25-29	850	840	519	687	267	370
30-34	830	910	585	771	313	436
35-39	860	930	807	933	365	494
40-44	1,030	1,200	1,167	1,088	410	519
45-49	1,000	1,240	975	801	441	507
50-54	1,180	1,280	974	797	540	585
55-59	1,090	1,260	1,068	825	701	645
60-64	1,030	1,020	1,333	1,236	827	787
65-69	820	860	1,294	1,615	1,127	1,104
70-74	630	700	1,426	1,980	1,563	1,527
75-79	460	530	1,070	1,942	1,154	1,233
80-84	350	380	488	769	589	720
85+	230	360	287	366	545	647
Total	16,770	17,460	15,757	17,650	10,874	11,633



Appendix D-5: Kawerau

Kawerau	2013		2033		2063	
	Males	Females	Males	Females	Males	Females
0-4	290	250	119	114	23	22
5-9	270	250	116	109	21	20
10-14	290	220	100	95	19	18
15-19	240	280	68	57	14	12
20-24	270	240	52	49	10	11
25-29	170	180	56	77	12	16
30-34	120	170	77	99	16	25
35-39	160	210	99	224	21	35
40-44	180	220	210	293	28	46
45-49	180	200	175	228	32	56
50-54	210	210	150	223	49	73
55-59	170	170	236	294	75	111
60-64	190	180	284	287	131	141
65-69	180	200	300	236	195	331
70-74	150	160	334	228	398	385
75-79	130	110	191	109	256	179
80-84	90	80	101	54	112	74
85+	40	50	61	37	125	64
Total	3,330	3,380	2,729	2,813	1,537	1,618

Appendix D-6: Opotiki

Opotiki	2013		2033		2063	
	Males	Females	Males	Females	Males	Females
0-4	320	310	259	225	113	98
5-9	320	290	264	243	110	102
10-14	370	360	243	199	106	87
15-19	350	320	167	119	84	60
20-24	310	250	142	109	73	50
25-29	190	190	153	131	84	73
30-34	150	180	208	255	113	116
35-39	180	200	283	396	142	153
40-44	220	290	295	405	133	153
45-49	230	290	192	255	122	139
50-54	300	330	150	193	140	170
55-59	290	300	177	185	169	170
60-64	270	270	247	260	229	250
65-69	260	240	248	229	280	300
70-74	180	200	270	221	277	270
75-79	150	140	180	155	133	134
80-84	90	90	90	84	60	58
85+	60	90	86	77	80	65
Total	4,240	4,340	3,654	3,740	2,449	2,448



E. Stochastic Projections

Appendix E-1: Stochastic Projections (Numbers), Western Bay of Plenty

Western Bay of Plenty	95th percentile	75th percentile	50th percentile (Median)	25th percentile	5th percentile
2013	46110	46110	46110	46110	46110
2014	46914	46747	46626	46503	46327
2015	47740	47404	47161	46915	46566
2016	48590	48080	47712	47343	46818
2017	49463	48772	48276	47779	47076
2018	50363	49486	48858	48231	47348
2019	51311	50238	49473	48711	47642
2020	52295	51016	50107	49204	47941
2021	53301	51805	50746	49697	48233
2022	54318	52598	51383	50184	48514
2023	55347	53394	52018	50664	48783
2024	56376	54180	52637	51123	49028
2025	57414	54965	53250	51569	49253
2026	58460	55746	53853	52001	49459
2027	59505	56515	54439	52411	49639
2028	60543	57265	55004	52796	49791
2029	61575	58001	55549	53160	49919
2030	62606	58728	56081	53508	50029
2031	63622	59437	56592	53835	50116
2032	64618	60120	57075	54134	50177
2033	65576	60764	57516	54390	50199
2034	66491	61362	57912	54600	50175
2035	67385	61934	58280	54782	50129
2036	68223	62449	58591	54913	50032
2037	69019	62920	58860	54999	49898
2038	69773	63347	59083	55046	49725
2039	70496	63738	59273	55056	49519
2040	71176	64084	59419	55023	49275
2041	71819	64395	59530	54954	49000
2042	72434	64675	59610	54856	48699
2043	73040	64944	59679	54750	48391
2044	73640	65204	59739	54636	48077
2045	74232	65453	59785	54512	47755
2046	74829	65703	59831	54389	47436
2047	75420	65946	59870	54256	47109
2048	76013	66185	59903	54120	46780
2049	76627	66435	59944	53987	46455
2050	77259	66694	59986	53857	46127
2051	77909	66963	60036	53727	45806
2052	78569	67239	60090	53603	45490
2053	79254	67526	60162	53491	45183
2054	79947	67812	60229	53372	44875
2055	80643	68096	60290	53251	44568
2056	81338	68374	60344	53123	44258
2057	82043	68661	60405	53000	43951
2058	82738	68941	60454	52875	43644
2059	83419	69205	60491	52735	43328
2060	84101	69465	60525	52593	43008
2061	84791	69728	60559	52446	42683
2062	85490	69986	60594	52302	42364
2063	86176	70233	60608	52140	42030

Appendix E-2: Stochastic Projections (Difference to Median), Western Bay of Plenty



Western Bay of Plenty	Difference to Median (%)			
	95th percentile	5th percentile	75th percentile	25th percentile
2013	0.0	0.0	0.0	0.0
2014	0.6	-0.6	0.3	-0.3
2015	1.2	-1.3	0.5	-0.5
2016	1.8	-1.9	0.8	-0.8
2017	2.5	-2.5	1.0	-1.0
2018	3.1	-3.1	1.3	-1.3
2019	3.7	-3.7	1.5	-1.5
2020	4.4	-4.3	1.8	-1.8
2021	5.0	-5.0	2.1	-2.1
2022	5.7	-5.6	2.4	-2.3
2023	6.4	-6.2	2.6	-2.6
2024	7.1	-6.9	2.9	-2.9
2025	7.8	-7.5	3.2	-3.2
2026	8.6	-8.2	3.5	-3.4
2027	9.3	-8.8	3.8	-3.7
2028	10.1	-9.5	4.1	-4.0
2029	10.8	-10.1	4.4	-4.3
2030	11.6	-10.8	4.7	-4.6
2031	12.4	-11.4	5.0	-4.9
2032	13.2	-12.1	5.3	-5.2
2033	14.0	-12.7	5.6	-5.4
2034	14.8	-13.4	6.0	-5.7
2035	15.6	-14.0	6.3	-6.0
2036	16.4	-14.6	6.6	-6.3
2037	17.3	-15.2	6.9	-6.6
2038	18.1	-15.8	7.2	-6.8
2039	18.9	-16.5	7.5	-7.1
2040	19.8	-17.1	7.9	-7.4
2041	20.6	-17.7	8.2	-7.7
2042	21.5	-18.3	8.5	-8.0
2043	22.4	-18.9	8.8	-8.3
2044	23.3	-19.5	9.1	-8.5
2045	24.2	-20.1	9.5	-8.8
2046	25.1	-20.7	9.8	-9.1
2047	26.0	-21.3	10.1	-9.4
2048	26.9	-21.9	10.5	-9.7
2049	27.8	-22.5	10.8	-9.9
2050	28.8	-23.1	11.2	-10.2
2051	29.8	-23.7	11.5	-10.5
2052	30.8	-24.3	11.9	-10.8
2053	31.7	-24.9	12.2	-11.1
2054	32.7	-25.5	12.6	-11.4
2055	33.8	-26.1	12.9	-11.7
2056	34.8	-26.7	13.3	-12.0
2057	35.8	-27.2	13.7	-12.3
2058	36.9	-27.8	14.0	-12.5
2059	37.9	-28.4	14.4	-12.8
2060	39.0	-28.9	14.8	-13.1
2061	40.0	-29.5	15.1	-13.4
2062	41.1	-30.1	15.5	-13.7
2063	42	-31	16	-14

Appendix E-3: Stochastic Projections (Numbers), Tauranga City

Tauranga City	95th percentile	75th percentile	50th percentile (Median)	25th percentile	5th percentile
2013	117280	117280	117280	117280	117280
2014	119635	119259	118987	118711	118315
2015	122127	121366	120819	120263	119472
2016	124743	123583	122751	121911	120718
2017	127460	125883	124756	123623	122020
2018	130302	128294	126860	125425	123401
2019	133283	130821	129065	127316	124856
2020	136354	133418	131324	129249	126341
2021	139519	136079	133630	131216	127843
2022	142780	138809	135991	133222	129369
2023	146105	141580	138380	135246	130896
2024	149470	144369	140773	137263	132404
2025	152873	147165	143162	139263	133887
2026	156281	149946	145525	141230	135324
2027	159678	152696	147846	143139	136697
2028	163100	155449	150156	145035	138048
2029	166561	158224	152479	146938	139407
2030	170024	160999	154795	148824	140744
2031	173501	163763	157097	150698	142060
2032	176954	166507	159367	152543	143345
2033	180333	169175	161565	154311	144557
2034	183638	171766	163688	156008	145702
2035	186873	174279	165741	157635	146786
2036	190019	176707	167709	159177	147799
2037	193104	179073	169615	160661	148759
2038	196088	181342	171429	162062	149641
2039	198963	183509	173144	163372	150442
2040	201684	185531	174720	164553	151123
2041	204271	187429	176179	165626	151709
2042	206713	189195	177515	166584	152199
2043	209059	190872	178773	167469	152628
2044	211336	192478	179962	168293	153007
2045	213559	194039	181112	169075	153350
2046	215689	195503	182179	169774	153625
2047	217762	196923	183191	170436	153842
2048	219754	198302	184173	171056	154034
2049	221676	199575	185064	171591	154165
2050	223495	200762	185844	172035	154204
2051	225287	201946	186636	172469	154233
2052	227011	203067	187372	172855	154202
2053	228754	204181	188103	173223	154165
2054	230527	205309	188827	173602	154144
2055	232439	206516	189623	174050	154186
2056	234441	207810	190512	174571	154283
2057	236481	209140	191410	175112	154397
2058	238458	210417	192248	175597	154447
2059	240410	211662	193067	176055	154498
2060	242287	212833	193818	176446	154473
2061	244158	213995	194546	176825	154439
2062	245966	215109	195225	177135	154350
2063	247709	216152	195852	177382	154198



Appendix E-4: Stochastic Projections (Difference to Median), Tauranga City

Tauranga City	Difference to Median (%)			
	95th percentile	5th percentile	75th percentile	25th percentile
2013	0.0	0.0	0.0	0.0
2014	0.5	-0.6	0.2	-0.2
2015	1.1	-1.1	0.5	-0.5
2016	1.6	-1.7	0.7	-0.7
2017	2.2	-2.2	0.9	-0.9
2018	2.7	-2.7	1.1	-1.1
2019	3.3	-3.3	1.4	-1.4
2020	3.8	-3.8	1.6	-1.6
2021	4.4	-4.3	1.8	-1.8
2022	5.0	-4.9	2.1	-2.0
2023	5.6	-5.4	2.3	-2.3
2024	6.2	-5.9	2.6	-2.5
2025	6.8	-6.5	2.8	-2.7
2026	7.4	-7.0	3.0	-3.0
2027	8.0	-7.5	3.3	-3.2
2028	8.6	-8.1	3.5	-3.4
2029	9.2	-8.6	3.8	-3.6
2030	9.8	-9.1	4.0	-3.9
2031	10.4	-9.6	4.2	-4.1
2032	11.0	-10.1	4.5	-4.3
2033	11.6	-10.5	4.7	-4.5
2034	12.2	-11.0	4.9	-4.7
2035	12.8	-11.4	5.2	-4.9
2036	13.3	-11.9	5.4	-5.1
2037	13.8	-12.3	5.6	-5.3
2038	14.4	-12.7	5.8	-5.5
2039	14.9	-13.1	6.0	-5.6
2040	15.4	-13.5	6.2	-5.8
2041	15.9	-13.9	6.4	-6.0
2042	16.4	-14.3	6.6	-6.2
2043	16.9	-14.6	6.8	-6.3
2044	17.4	-15.0	7.0	-6.5
2045	17.9	-15.3	7.1	-6.6
2046	18.4	-15.7	7.3	-6.8
2047	18.9	-16.0	7.5	-7.0
2048	19.3	-16.4	7.7	-7.1
2049	19.8	-16.7	7.8	-7.3
2050	20.3	-17.0	8.0	-7.4
2051	20.7	-17.4	8.2	-7.6
2052	21.2	-17.7	8.4	-7.7
2053	21.6	-18.0	8.5	-7.9
2054	22.1	-18.4	8.7	-8.1
2055	22.6	-18.7	8.9	-8.2
2056	23.1	-19.0	9.1	-8.4
2057	23.5	-19.3	9.3	-8.5
2058	24.0	-19.7	9.5	-8.7
2059	24.5	-20.0	9.6	-8.8
2060	25.0	-20.3	9.8	-9.0
2061	25.5	-20.6	10.0	-9.1
2062	26.0	-20.9	10.2	-9.3
2063	26.5	-21.3	10.4	-9.4



Appendix E-5: Stochastic Projections (Numbers), Rotorua District

Rotorua	95th percentile	75th percentile	50th percentile (Median)	25th percentile	5th percentile
2013	68590	68590	68590	68590	68590
2014	68893	68731	68613	68492	68322
2015	69215	68897	68666	68431	68101
2016	69548	69077	68736	68391	67907
2017	69888	69266	68819	68366	67734
2018	70242	69471	68918	68360	67583
2019	70606	69688	69030	68368	67449
2020	70968	69901	69140	68374	67313
2021	71336	70119	69252	68383	67180
2022	71695	70327	69356	68384	67037
2023	72038	70519	69443	68368	66879
2024	72365	70692	69511	68333	66702
2025	72677	70850	69559	68278	66508
2026	72969	70985	69585	68200	66290
2027	73231	71090	69583	68093	66042
2028	73476	71179	69562	67965	65775
2029	73698	71241	69518	67816	65486
2030	73902	71283	69454	67645	65179
2031	74086	71308	69372	67459	64851
2032	74239	71304	69257	67244	64500
2033	74360	71264	69110	66996	64115
2034	74453	71194	68934	66720	63711
2035	74512	71091	68726	66411	63269
2036	74525	70951	68483	66065	62796
2037	74494	70767	68194	65682	62288
2038	74423	70543	67867	65263	61747
2039	74306	70274	67498	64804	61167
2040	74147	69963	67090	64308	60553
2041	73944	69611	66640	63773	59905
2042	73703	69223	66156	63205	59227
2043	73431	68807	65648	62614	58532
2044	73132	68367	65117	62003	57819
2045	72808	67903	64566	61373	57093
2046	72471	67430	64007	60738	56366
2047	72112	66938	63433	60090	55631
2048	71729	66427	62842	59426	54884
2049	71312	65884	62223	58739	54117
2050	70881	65329	61594	58041	53343
2051	70429	64757	60949	57331	52562
2052	69961	64171	60292	56612	51774
2053	69475	63569	59621	55881	50977
2054	68981	62961	58944	55146	50182
2055	68476	62346	58262	54407	49388
2056	67961	61723	57576	53670	48591
2057	67433	61094	56887	52929	47797
2058	66902	60462	56200	52189	47007
2059	66356	59822	55500	51443	46212
2060	65797	59171	54792	50692	45413
2061	65233	58513	54078	49941	44617
2062	64670	57857	53373	49194	43829
2063	64103	57199	52669	48447	43044



Appendix E-6: Stochastic Projections (Difference to Median), Rotorua District

Rotorua	Difference to Median (%)			
	95th percentile	5th percentile	75th percentile	25th percentile
2013	0.0	0.0	0.0	0.0
2014	0.4	-0.4	0.2	-0.2
2015	0.8	-0.8	0.3	-0.3
2016	1.2	-1.2	0.5	-0.5
2017	1.6	-1.6	0.7	-0.7
2018	1.9	-1.9	0.8	-0.8
2019	2.3	-2.3	1.0	-1.0
2020	2.6	-2.6	1.1	-1.1
2021	3.0	-3.0	1.3	-1.3
2022	3.4	-3.3	1.4	-1.4
2023	3.7	-3.7	1.5	-1.5
2024	4.1	-4.0	1.7	-1.7
2025	4.5	-4.4	1.9	-1.8
2026	4.9	-4.7	2.0	-2.0
2027	5.2	-5.1	2.2	-2.1
2028	5.6	-5.4	2.3	-2.3
2029	6.0	-5.8	2.5	-2.4
2030	6.4	-6.2	2.6	-2.6
2031	6.8	-6.5	2.8	-2.8
2032	7.2	-6.9	3.0	-2.9
2033	7.6	-7.2	3.1	-3.1
2034	8.0	-7.6	3.3	-3.2
2035	8.4	-7.9	3.4	-3.4
2036	8.8	-8.3	3.6	-3.5
2037	9.2	-8.7	3.8	-3.7
2038	9.7	-9.0	3.9	-3.8
2039	10.1	-9.4	4.1	-4.0
2040	10.5	-9.7	4.3	-4.1
2041	11.0	-10.1	4.5	-4.3
2042	11.4	-10.5	4.6	-4.5
2043	11.9	-10.8	4.8	-4.6
2044	12.3	-11.2	5.0	-4.8
2045	12.8	-11.6	5.2	-4.9
2046	13.2	-11.9	5.3	-5.1
2047	13.7	-12.3	5.5	-5.3
2048	14.1	-12.7	5.7	-5.4
2049	14.6	-13.0	5.9	-5.6
2050	15.1	-13.4	6.1	-5.8
2051	15.6	-13.8	6.2	-5.9
2052	16.0	-14.1	6.4	-6.1
2053	16.5	-14.5	6.6	-6.3
2054	17.0	-14.9	6.8	-6.4
2055	17.5	-15.2	7.0	-6.6
2056	18.0	-15.6	7.2	-6.8
2057	18.5	-16.0	7.4	-7.0
2058	19.0	-16.4	7.6	-7.1
2059	19.6	-16.7	7.8	-7.3
2060	20.1	-17.1	8.0	-7.5
2061	20.6	-17.5	8.2	-7.7
2062	21.2	-17.9	8.4	-7.8
2063	21.7	-18.3	8.6	-8.0



Appendix E-7: Stochastic Projections (Numbers), Whakatane District

Whakatane	95th percentile	75th percentile	50th percentile (Median)	25th percentile	5th percentile
2013	34230	34230	34230	34230	34230
2014	34287	34176	34095	34013	33896
2015	34365	34147	33991	33832	33606
2016	34470	34149	33920	33688	33360
2017	34589	34167	33867	33566	33140
2018	34730	34209	33840	33470	32950
2019	34892	34272	33834	33397	32783
2020	35066	34347	33839	33334	32628
2021	35257	34435	33857	33284	32485
2022	35452	34527	33878	33236	32344
2023	35650	34621	33900	33189	32204
2024	35848	34715	33922	33142	32064
2025	36035	34797	33932	33083	31911
2026	36209	34864	33926	33006	31741
2027	36369	34916	33903	32914	31557
2028	36513	34951	33864	32806	31357
2029	36635	34966	33803	32678	31140
2030	36740	34962	33726	32533	30907
2031	36827	34942	33635	32376	30665
2032	36900	34908	33530	32208	30413
2033	36935	34838	33393	32008	30132
2034	36938	34739	33227	31779	29829
2035	36892	34592	33016	31509	29486
2036	36797	34401	32764	31203	29109
2037	36672	34186	32488	30876	28717
2038	36506	33930	32177	30517	28298
2039	36318	33657	31852	30146	27871
2040	36095	33353	31499	29748	27423
2041	35847	33028	31128	29336	26964
2042	35563	32674	30730	28901	26486
2043	35263	32308	30324	28461	26006
2044	34947	31929	29908	28014	25524
2045	34619	31543	29487	27565	25044
2046	34280	31149	29062	27114	24564
2047	33937	30756	28641	26670	24094
2048	33587	30359	28218	26225	23625
2049	33241	29966	27800	25785	23167
2050	32888	29569	27377	25344	22708
2051	32533	29173	26962	24909	22256
2052	32168	28771	26537	24470	21801
2053	31821	28384	26126	24046	21362
2054	31484	28006	25727	23632	20933
2055	31159	27641	25343	23230	20519
2056	30842	27287	24967	22840	20118
2057	30539	26943	24605	22462	19727
2058	30242	26608	24249	22092	19342
2059	29947	26273	23894	21721	18959
2060	29650	25935	23537	21350	18576
2061	29364	25608	23191	20987	18202
2062	29077	25279	22842	20623	17827
2063	28782	24943	22487	20255	17448

Appendix E-8: Stochastic Projections (Difference to Median), Whakatane District



	Difference to Median (%)			
	95th percentile	5th percentile	75th percentile	25th percentile
Whakatane				
2013	0.0	0.0	0.0	0.0
2014	0.6	-0.6	0.2	-0.2
2015	1.1	-1.1	0.5	-0.5
2016	1.6	-1.7	0.7	-0.7
2017	2.1	-2.1	0.9	-0.9
2018	2.6	-2.6	1.1	-1.1
2019	3.1	-3.1	1.3	-1.3
2020	3.6	-3.6	1.5	-1.5
2021	4.1	-4.1	1.7	-1.7
2022	4.6	-4.5	1.9	-1.9
2023	5.2	-5.0	2.1	-2.1
2024	5.7	-5.5	2.3	-2.3
2025	6.2	-6.0	2.5	-2.5
2026	6.7	-6.4	2.8	-2.7
2027	7.3	-6.9	3.0	-2.9
2028	7.8	-7.4	3.2	-3.1
2029	8.4	-7.9	3.4	-3.3
2030	8.9	-8.4	3.7	-3.5
2031	9.5	-8.8	3.9	-3.7
2032	10.0	-9.3	4.1	-3.9
2033	10.6	-9.8	4.3	-4.1
2034	11.2	-10.2	4.5	-4.4
2035	11.7	-10.7	4.8	-4.6
2036	12.3	-11.2	5.0	-4.8
2037	12.9	-11.6	5.2	-5.0
2038	13.5	-12.1	5.4	-5.2
2039	14.0	-12.5	5.7	-5.4
2040	14.6	-12.9	5.9	-5.6
2041	15.2	-13.4	6.1	-5.8
2042	15.7	-13.8	6.3	-6.0
2043	16.3	-14.2	6.5	-6.1
2044	16.8	-14.7	6.8	-6.3
2045	17.4	-15.1	7.0	-6.5
2046	18.0	-15.5	7.2	-6.7
2047	18.5	-15.9	7.4	-6.9
2048	19.0	-16.3	7.6	-7.1
2049	19.6	-16.7	7.8	-7.2
2050	20.1	-17.1	8.0	-7.4
2051	20.7	-17.5	8.2	-7.6
2052	21.2	-17.8	8.4	-7.8
2053	21.8	-18.2	8.6	-8.0
2054	22.4	-18.6	8.9	-8.1
2055	23.0	-19.0	9.1	-8.3
2056	23.5	-19.4	9.3	-8.5
2057	24.1	-19.8	9.5	-8.7
2058	24.7	-20.2	9.7	-8.9
2059	25.3	-20.7	10.0	-9.1
2060	26.0	-21.1	10.2	-9.3
2061	26.6	-21.5	10.4	-9.5
2062	27.3	-22.0	10.7	-9.7
2063	28	-22	11	-10



Appendix E-9: Stochastic Projections (Numbers), Kawerau District

Kawerau	95th percentile	75th percentile	50th percentile (Median)	25th percentile	5th percentile
2013	6710	6710	6710	6710	6710
2014	6648	6608	6580	6551	6509
2015	6599	6524	6469	6414	6336
2016	6562	6453	6375	6297	6186
2017	6532	6391	6291	6191	6050
2018	6511	6340	6219	6099	5931
2019	6496	6296	6155	6016	5823
2020	6487	6259	6100	5943	5726
2021	6481	6226	6049	5874	5635
2022	6476	6194	5999	5808	5547
2023	6475	6166	5954	5748	5466
2024	6472	6137	5909	5687	5386
2025	6470	6110	5865	5628	5309
2026	6470	6084	5824	5573	5236
2027	6471	6060	5784	5518	5164
2028	6471	6036	5745	5465	5094
2029	6470	6011	5705	5411	5023
2030	6470	5987	5667	5360	4956
2031	6466	5960	5625	5307	4887
2032	6461	5932	5583	5252	4818
2033	6452	5901	5539	5197	4750
2034	6438	5865	5492	5139	4679
2035	6421	5827	5441	5078	4607
2036	6399	5785	5387	5014	4532
2037	6374	5740	5331	4948	4456
2038	6343	5691	5271	4879	4377
2039	6314	5642	5212	4811	4300
2040	6279	5588	5148	4739	4219
2041	6237	5528	5078	4662	4134
2042	6191	5465	5005	4582	4047
2043	6141	5399	4931	4501	3960
2044	6091	5333	4857	4420	3874
2045	6036	5262	4779	4336	3785
2046	5982	5193	4702	4253	3697
2047	5921	5118	4620	4167	3607
2048	5858	5042	4537	4080	3517
2049	5791	4962	4452	3992	3426
2050	5717	4876	4361	3897	3330
2051	5644	4792	4271	3805	3236
2052	5566	4703	4179	3710	3141
2053	5487	4615	4086	3615	3046
2054	5409	4526	3994	3521	2953
2055	5331	4439	3903	3429	2861
2056	5253	4352	3812	3338	2771
2057	5172	4262	3721	3245	2680
2058	5092	4175	3632	3156	2593
2059	5009	4086	3541	3066	2506
2060	4922	3994	3448	2974	2418
2061	4828	3896	3350	2878	2327
2062	4735	3799	3254	2785	2239
2063	4632	3694	3151	2685	2145



Appendix E-10: Stochastic Projections (Difference to Median), Kawerau District

Kawerau	Difference to Median (%)			
	95th percentile	5th percentile	75th percentile	25th percentile
2013	0.0	0.0	0.0	0.0
2014	1.0	-1.1	0.4	-0.4
2015	2.0	-2.1	0.8	-0.9
2016	2.9	-3.0	1.2	-1.2
2017	3.8	-3.8	1.6	-1.6
2018	4.7	-4.6	1.9	-1.9
2019	5.5	-5.4	2.3	-2.3
2020	6.4	-6.1	2.6	-2.6
2021	7.2	-6.8	2.9	-2.9
2022	8.0	-7.5	3.2	-3.2
2023	8.8	-8.2	3.6	-3.5
2024	9.5	-8.8	3.9	-3.8
2025	10.3	-9.5	4.2	-4.0
2026	11.1	-10.1	4.5	-4.3
2027	11.9	-10.7	4.8	-4.6
2028	12.6	-11.3	5.1	-4.9
2029	13.4	-11.9	5.4	-5.1
2030	14.2	-12.5	5.7	-5.4
2031	15.0	-13.1	6.0	-5.7
2032	15.7	-13.7	6.2	-5.9
2033	16.5	-14.3	6.5	-6.2
2034	17.2	-14.8	6.8	-6.4
2035	18.0	-15.3	7.1	-6.7
2036	18.8	-15.9	7.4	-6.9
2037	19.6	-16.4	7.7	-7.2
2038	20.3	-17.0	8.0	-7.4
2039	21.2	-17.5	8.3	-7.7
2040	22.0	-18.0	8.6	-7.9
2041	22.8	-18.6	8.9	-8.2
2042	23.7	-19.2	9.2	-8.5
2043	24.5	-19.7	9.5	-8.7
2044	25.4	-20.2	9.8	-9.0
2045	26.3	-20.8	10.1	-9.3
2046	27.2	-21.4	10.4	-9.5
2047	28.2	-21.9	10.8	-9.8
2048	29.1	-22.5	11.1	-10.1
2049	30.1	-23.0	11.5	-10.3
2050	31.1	-23.6	11.8	-10.6
2051	32.1	-24.2	12.2	-10.9
2052	33.2	-24.8	12.6	-11.2
2053	34.3	-25.4	12.9	-11.5
2054	35.4	-26.1	13.3	-11.8
2055	36.6	-26.7	13.7	-12.1
2056	37.8	-27.3	14.1	-12.5
2057	39.0	-28.0	14.6	-12.8
2058	40.2	-28.6	15.0	-13.1
2059	41.5	-29.2	15.4	-13.4
2060	42.8	-29.9	15.8	-13.7
2061	44.1	-30.5	16.3	-14.1
2062	45.5	-31.2	16.7	-14.4
2063	47	-32	17	-15



Appendix E-11: Stochastic Projections (Numbers), Opotiki District

Opotiki	95th percentile	75th percentile	50th percentile (Median)	25th percentile	5th percentile
2013	8580	8580	8580	8580	8580
2014	8514	8482	8459	8435	8401
2015	8465	8402	8355	8309	8243
2016	8424	8331	8263	8195	8098
2017	8390	8266	8176	8087	7961
2018	8370	8216	8106	7996	7841
2019	8362	8178	8046	7916	7733
2020	8363	8148	7996	7845	7635
2021	8370	8125	7951	7780	7542
2022	8384	8107	7912	7721	7456
2023	8402	8092	7876	7664	7371
2024	8423	8081	7842	7610	7290
2025	8445	8071	7810	7557	7210
2026	8462	8055	7772	7498	7125
2027	8480	8040	7735	7441	7041
2028	8492	8018	7691	7377	6952
2029	8501	7993	7645	7311	6861
2030	8502	7961	7592	7239	6764
2031	8493	7920	7529	7158	6661
2032	8480	7874	7463	7074	6554
2033	8458	7821	7390	6983	6444
2034	8430	7762	7313	6889	6331
2035	8391	7692	7226	6786	6210
2036	8347	7621	7137	6683	6089
2037	8297	7543	7044	6576	5967
2038	8244	7463	6949	6468	5844
2039	8186	7379	6851	6358	5720
2040	8123	7292	6750	6246	5596
2041	8061	7206	6651	6135	5474
2042	8003	7123	6555	6029	5356
2043	7942	7039	6458	5922	5238
2044	7885	6959	6366	5820	5127
2045	7827	6878	6273	5718	5016
2046	7771	6800	6183	5619	4908
2047	7719	6726	6097	5524	4805
2048	7671	6656	6015	5433	4705
2049	7626	6588	5935	5344	4608
2050	7582	6522	5856	5257	4513
2051	7540	6457	5779	5172	4420
2052	7501	6394	5705	5089	4329
2053	7464	6333	5632	5008	4241
2054	7428	6274	5561	4928	4155
2055	7392	6214	5489	4848	4068
2056	7357	6156	5420	4772	3985
2057	7319	6096	5348	4692	3900
2058	7282	6035	5277	4614	3817
2059	7243	5974	5205	4535	3733
2060	7200	5909	5131	4455	3648
2061	7154	5843	5054	4373	3563
2062	7103	5771	4974	4288	3476
2063	7046	5695	4890	4199	3387



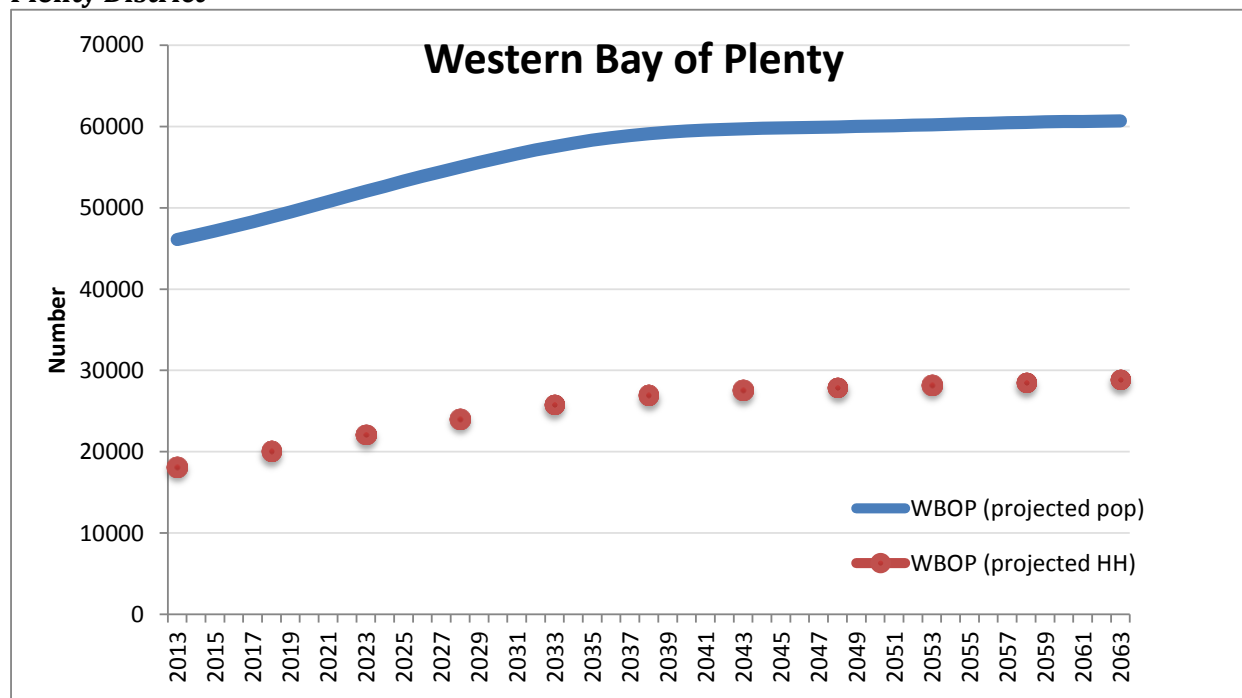
Appendix E-12: Stochastic Projections (Difference to Median), Opotiki District

Opotiki	Difference to Median (%)			
	95th percentile	5th percentile	75th percentile	25th percentile
2013	0.0	0.0	0.0	0.0
2014	0.7	-0.7	0.3	-0.3
2015	1.3	-1.3	0.6	-0.6
2016	2.0	-2.0	0.8	-0.8
2017	2.6	-2.6	1.1	-1.1
2018	3.3	-3.3	1.4	-1.4
2019	3.9	-3.9	1.6	-1.6
2020	4.6	-4.5	1.9	-1.9
2021	5.3	-5.1	2.2	-2.1
2022	6.0	-5.8	2.5	-2.4
2023	6.7	-6.4	2.8	-2.7
2024	7.4	-7.0	3.0	-3.0
2025	8.1	-7.7	3.3	-3.2
2026	8.9	-8.3	3.6	-3.5
2027	9.6	-9.0	3.9	-3.8
2028	10.4	-9.6	4.2	-4.1
2029	11.2	-10.3	4.6	-4.4
2030	12.0	-10.9	4.9	-4.7
2031	12.8	-11.5	5.2	-4.9
2032	13.6	-12.2	5.5	-5.2
2033	14.4	-12.8	5.8	-5.5
2034	15.3	-13.4	6.1	-5.8
2035	16.1	-14.1	6.4	-6.1
2036	17.0	-14.7	6.8	-6.4
2037	17.8	-15.3	7.1	-6.6
2038	18.6	-15.9	7.4	-6.9
2039	19.5	-16.5	7.7	-7.2
2040	20.3	-17.1	8.0	-7.5
2041	21.2	-17.7	8.4	-7.7
2042	22.1	-18.3	8.7	-8.0
2043	23.0	-18.9	9.0	-8.3
2044	23.9	-19.5	9.3	-8.6
2045	24.8	-20.0	9.6	-8.9
2046	25.7	-20.6	10.0	-9.1
2047	26.6	-21.2	10.3	-9.4
2048	27.5	-21.8	10.7	-9.7
2049	28.5	-22.4	11.0	-10.0
2050	29.5	-22.9	11.4	-10.2
2051	30.5	-23.5	11.7	-10.5
2052	31.5	-24.1	12.1	-10.8
2053	32.5	-24.7	12.4	-11.1
2054	33.6	-25.3	12.8	-11.4
2055	34.7	-25.9	13.2	-11.7
2056	35.7	-26.5	13.6	-12.0
2057	36.8	-27.1	14.0	-12.3
2058	38.0	-27.7	14.4	-12.6
2059	39.1	-28.3	14.8	-12.9
2060	40.3	-28.9	15.2	-13.2
2061	41.5	-29.5	15.6	-13.5
2062	42.8	-30.1	16.0	-13.8
2063	44.1	-30.7	16.5	-14.1

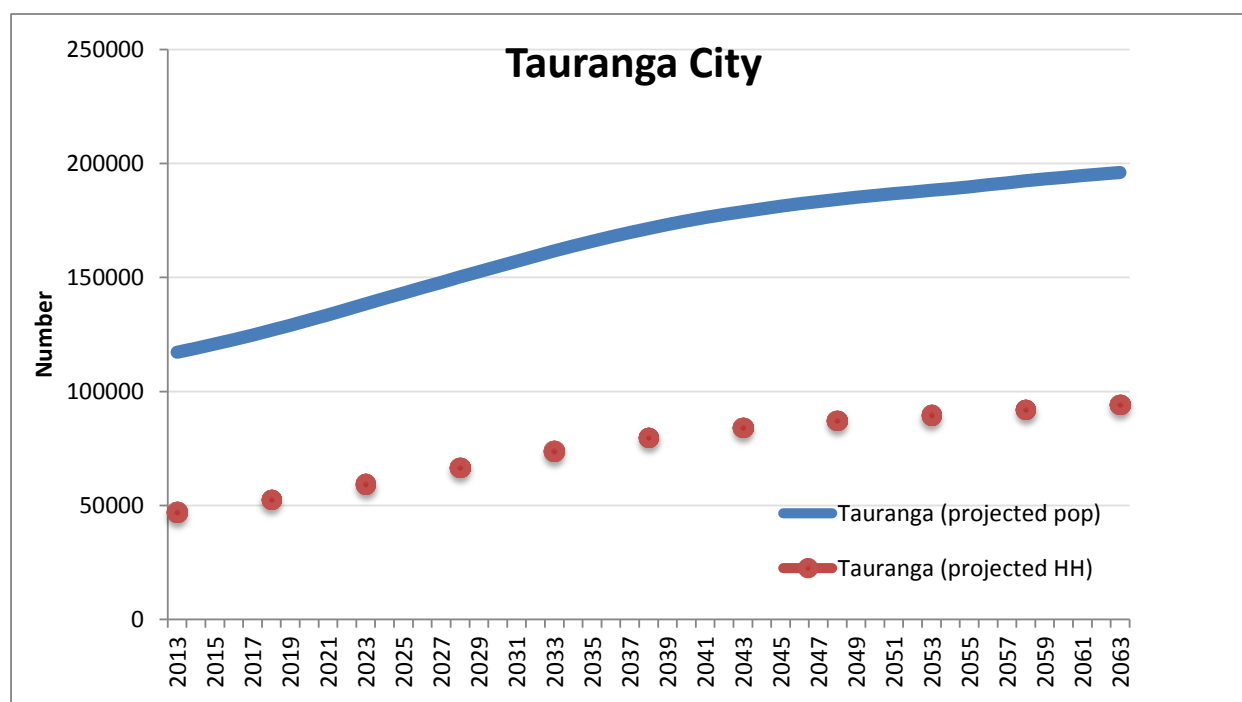


F. Projected Population and Projected Households

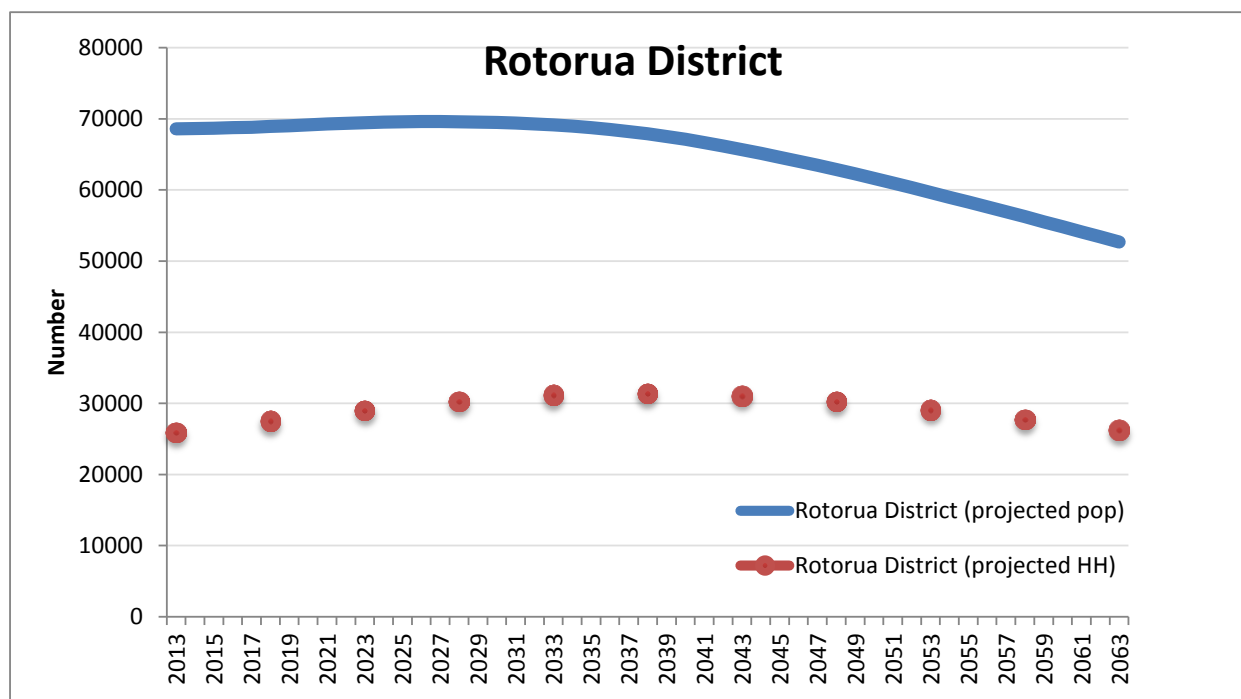
Appendix F-1: Projected Population and Household Numbers, 2013-2063, Western Bay of Plenty District



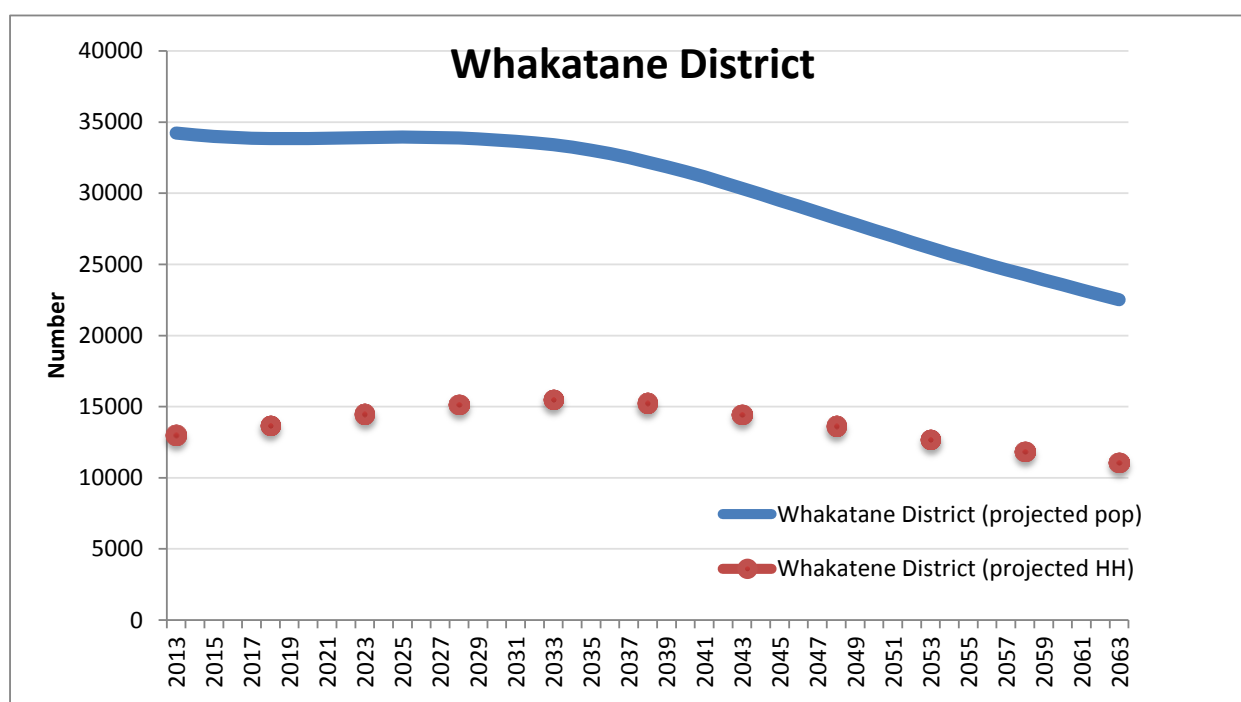
Appendix F-2: Projected Population and Household Numbers, 2013-2063, Tauranga City



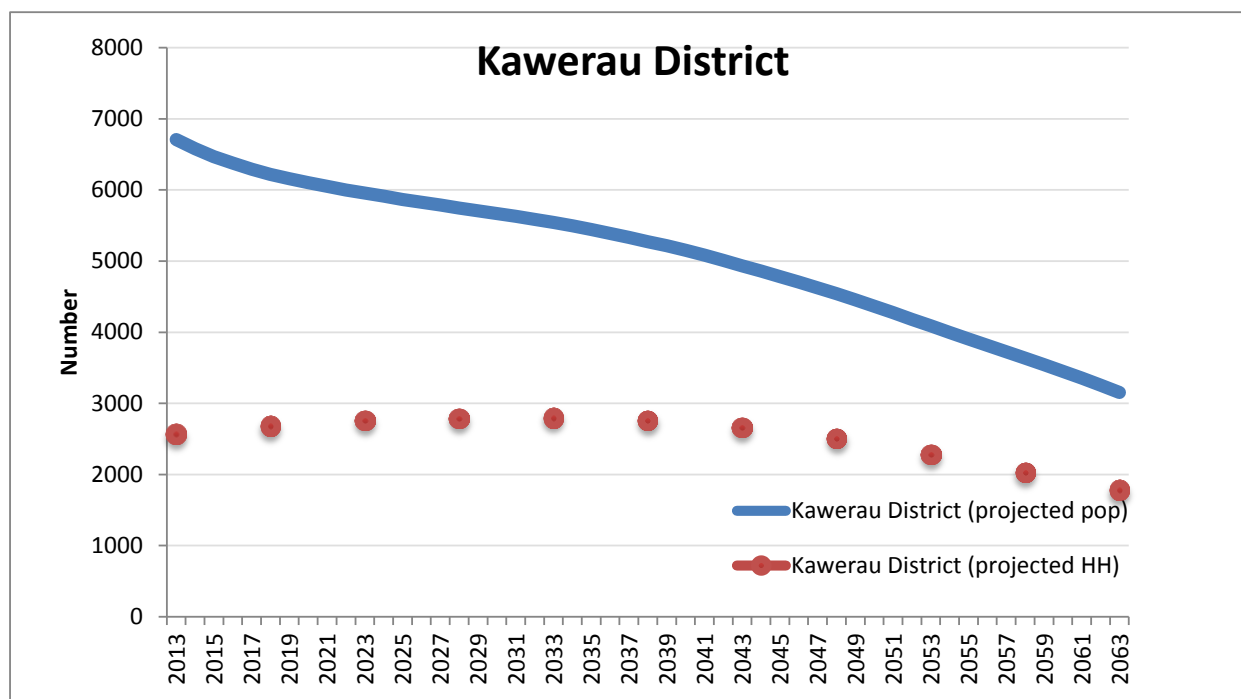
Appendix F-3: Projected Population and Household Numbers, 2013-2063, Rotorua District



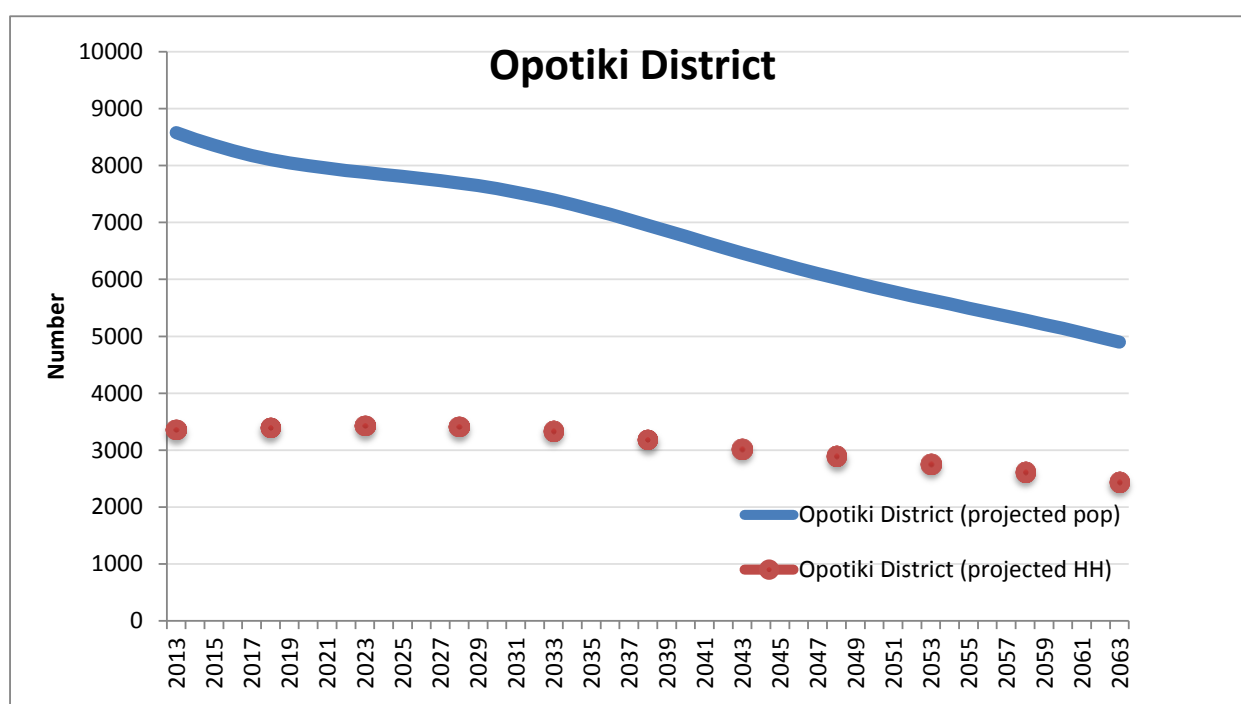
Appendix F-4: Projected Population and Household Numbers, 2013-2063, Whakatane District



Appendix F-5: Projected Population and Household Numbers, 2013-2063, Kawerau District



Appendix F-6: Projected Population and Household Numbers, 2013-2063, Opotiki District



G. Labour Force Projections by Scenario and Sex

Appendix G-1: Labour Force Participation Rates (%) by 5 Year Age Groups (2013)

Age Group (Years)	Western Bay of Plenty	Tauranga	Rotorua	Whakatane	Kawerau	Opotiki
Female						
15-19	47.9	52.1	49.1	45.3	41.2	45.6
20-24	70.7	72.3	67.9	69.1	49.1	58.9
25-29	66.9	70.7	68.2	68.6	69.2	59.7
30-34	67.7	70.1	74.5	73.2	72.2	70.2
35-39	72	73.4	77.4	76.7	67.9	71.4
40-44	81.1	80.3	81.6	81.2	77.6	79.7
45-49	84.5	83.3	84.5	80.4	75	81.1
50-54	83	83.3	82.9	83.5	75.8	79.1
55-59	79.5	76.2	78.9	80.5	64.8	76
60-64	62.7	63.2	69	64.6	48.2	61.2
65-69	36.7	29.7	39	34.7	26.7	31.4
70-74	19.6	11.9	18.7	15.6	12	24.1
75-79	12.5	4.9	9.8	7.9	9.4	10.3
80-84	6.3	2.2	5.3	6.5	4.5	13.3
85 And Over	2.5	2.2	5.2	2.9	0	0
Male						
15-19	48.9	49.3	48.9	48.2	43.8	40.7
20-24	83.5	84.2	82.9	81.5	73.5	74.3
25-29	85.4	87.6	87	85.9	84.6	78.8
30-34	87	89.7	88.4	84.7	79.4	83
35-39	91.6	90.8	88.4	86.2	83.3	74.6
40-44	89.7	91.2	89	88.5	81.6	80.3
45-49	89.8	89.9	88.9	87.2	80.4	77.8
50-54	89	89.4	87.6	86	71.7	81.1
55-59	87.5	87	85.9	85.3	80	80.7
60-64	80.1	78.7	79.5	77.2	61	75.6
65-69	54.8	49.2	54.4	50.2	30.9	45.5
70-74	33.5	23.6	31.5	28.2	15.7	35.6
75-79	24.1	9.1	17	15.2	8.3	15.9
80-84	13.8	4.9	9.1	7.3	0	22.2
85 And Over	10.5	3.2	5.4	8.1	8.3	16.7

Labour force participation rate is calculated as follows;

$$LFPR_i = 100 \times \left(1 - \frac{NILF_i}{(WAP_i - NS_i)}\right)$$

Where

$LFPR_i$ = The labour force participation rate of age group i

$NILF_i$ = The census usually resident population in age group i who are not in the labour force

WAP_i = The census usually resident population in age group i

NS_i = The census usually resident population in age group i whose labour force status cannot be established

All data is drawn from the 2013 Census.



Appendix G-2: Scenario 1 Labour Force Projections (numbers), Western Bay of Plenty

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	642	537	552	513	492	516	508	475	441	424	415
	20-24	785	628	537	552	516	493	517	509	477	443	425
	25-29	556	834	660	571	586	549	523	548	541	507	470
	30-34	643	746	1121	884	768	787	738	703	737	728	682
	35-39	864	872	1013	1521	1203	1042	1069	1002	955	1001	988
	40-44	1290	1181	1193	1386	2082	1652	1426	1463	1370	1306	1369
	45-49	1495	1493	1366	1382	1608	2414	1921	1653	1696	1587	1514
	50-54	1628	1608	1607	1471	1490	1733	2602	2069	1782	1828	1711
	55-59	1494	1733	1714	1715	1572	1592	1851	2780	2209	1904	1954
	60-64	1021	1343	1561	1546	1550	1420	1438	1672	2512	1996	1721
	65-69	539	635	837	975	967	969	888	901	1048	1573	1257
	70-74	237	282	334	442	517	513	515	471	477	556	834
	75-79	108	146	175	207	276	323	320	321	293	299	347
	80-84	31	32	44	54	64	85	100	99	99	90	92
	85 plus	13	12	12	14	19	23	30	36	39	40	38
	Total	11346	12082	12726	13233	13710	14111	14446	14702	14676	14282	13817
Male	15-19	744	677	658	722	588	617	607	568	527	506	496
	20-24	1011	947	868	842	927	753	789	778	728	676	649
	25-29	769	1019	950	879	848	938	760	796	786	736	683
	30-34	800	906	1203	1122	1039	1002	1108	897	940	928	870
	35-39	1025	954	1083	1436	1340	1240	1196	1322	1071	1123	1108
	40-44	1238	1130	1052	1195	1586	1480	1369	1321	1459	1183	1239
	45-49	1455	1375	1256	1171	1330	1766	1649	1523	1470	1624	1316
	50-54	1647	1563	1479	1352	1260	1429	1899	1772	1641	1582	1750
	55-59	1592	1851	1760	1667	1526	1423	1614	2145	2001	1853	1787
	60-64	1297	1656	1930	1842	1748	1601	1491	1691	2248	2097	1944
	65-69	839	1002	1284	1503	1433	1361	1247	1164	1323	1756	1640
	70-74	392	516	621	801	942	899	853	782	729	831	1100
	75-79	193	259	346	420	546	644	608	577	531	496	569
	80-84	77	64	89	120	147	192	227	212	201	185	174
	85 plus	39	50	51	63	85	110	143	175	184	179	168
	Total	13118	13969	14630	15135	15345	15455	15560	15723	15839	15755	15493



Appendix G-3: Scenario 1 Labour Force Projections (numbers), Tauranga

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	1833	1725	1916	2008	1860	1871	1862	1861	1883	1905	1903
	20-24	2421	2301	2175	2410	2536	2345	2359	2347	2345	2372	2401
	25-29	2391	2540	2412	2283	2527	2661	2460	2474	2462	2460	2489
	30-34	2447	2665	2833	2687	2547	2815	2970	2743	2759	2746	2743
	35-39	2501	2885	3143	3340	3172	3004	3323	3502	3236	3255	3239
	40-44	3381	2929	3382	3685	3916	3724	3522	3900	4105	3796	3818
	45-49	3424	3684	3192	3688	4021	4273	4064	3843	4256	4479	4141
	50-54	3423	3575	3849	3340	3859	4208	4473	4252	4022	4453	4689
	55-59	2873	3393	3553	3829	3334	3846	4196	4461	4229	4011	4436
	60-64	2161	2833	3354	3517	3799	3309	3816	4162	4429	4197	3981
	65-69	1010	1253	1648	1957	2059	2225	1941	2236	2439	2596	2456
	70-74	343	482	600	793	946	995	1075	936	1080	1178	1253
	75-79	116	153	218	272	362	433	454	491	425	492	536
	80-84	43	31	42	62	77	102	122	128	138	118	138
	85 plus	46	45	38	41	56	74	98	122	137	149	142
	Total	28413	30492	32357	33912	35070	35886	36735	37457	37944	38206	38366
Male	15-19	1822	1759	1876	1911	1834	1846	1837	1835	1857	1880	1877
	20-24	3064	2609	2534	2695	2753	2641	2657	2644	2642	2673	2706
	25-29	2715	3163	2690	2619	2778	2842	2726	2743	2729	2727	2759
	30-34	2808	2969	3460	2934	2870	3038	3113	2984	3003	2988	2986
	35-39	2887	3161	3344	3899	3308	3234	3424	3508	3363	3384	3368
	40-44	3347	3134	3434	3634	4238	3601	3514	3725	3813	3657	3679
	45-49	3264	3477	3258	3574	3783	4412	3751	3658	3879	3969	3807
	50-54	3273	3438	3666	3439	3773	3996	4662	3956	3867	4094	4194
	55-59	2801	3491	3675	3922	3689	4044	4283	4994	4236	4145	4388
	60-64	2384	2967	3706	3913	4185	3936	4315	4572	5334	4517	4428
	65-69	1461	1921	2403	3009	3194	3416	3217	3522	3733	4357	3678
	70-74	588	900	1188	1495	1883	1999	2138	2012	2205	2336	2726
	75-79	178	255	397	523	665	840	887	952	890	980	1037
	80-84	73	53	78	127	166	209	265	277	298	278	307
	85 plus	40	37	31	36	56	79	104	132	149	162	160
	Total	30705	33334	35740	37730	39175	40133	40893	41514	41998	42147	42100



Appendix G-4: Scenario 1 Labour Force Projections (numbers), Rotorua

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	1212	962	898	796	697	655	592	521	455	406	365
	20-24	1556	1357	1090	1015	902	787	739	670	589	515	458
	25-29	1452	1555	1355	1089	1015	902	786	739	669	589	515
	30-34	1498	1617	1735	1509	1216	1132	1007	877	824	747	657
	35-39	1710	1630	1758	1888	1640	1325	1233	1097	955	897	813
	40-44	1990	1907	1816	1962	2107	1832	1478	1376	1224	1065	1001
	45-49	2096	2260	2167	2067	2231	2399	2082	1683	1566	1394	1213
	50-54	2063	2204	2380	2284	2180	2357	2530	2201	1775	1652	1470
	55-59	1674	2019	2159	2335	2245	2142	2317	2487	2164	1744	1624
	60-64	1298	1499	1813	1943	2106	2025	1933	2090	2243	1953	1574
	65-69	604	751	871	1058	1138	1234	1187	1133	1225	1315	1144
	70-74	221	291	363	424	518	557	604	581	554	600	644
	75-79	83	105	140	176	207	254	271	295	283	270	294
	80-84	35	24	30	42	52	62	76	80	87	84	79
	85 plus	36	28	21	21	28	36	44	54	60	66	66
	Total	17528	18209	18596	18609	18282	17699	16879	15884	14673	13297	11917
Male	15-19	1272	1079	1045	965	849	798	722	634	555	494	445
	20-24	1990	1646	1402	1356	1259	1104	1037	939	826	722	643
	25-29	1679	1915	1583	1351	1307	1214	1064	1000	906	796	696
	30-34	1556	1674	1913	1580	1351	1306	1216	1064	1000	906	797
	35-39	1733	1583	1701	1947	1608	1376	1330	1239	1084	1019	923
	40-44	1914	1801	1646	1772	2028	1675	1433	1385	1290	1129	1061
	45-49	1921	1982	1866	1707	1840	2105	1740	1488	1438	1339	1172
	50-54	2040	1865	1928	1815	1664	1794	2053	1697	1450	1402	1304
	55-59	1683	1968	1803	1867	1763	1616	1741	1993	1647	1408	1361
	60-64	1407	1596	1874	1723	1788	1690	1548	1668	1910	1578	1350
	65-69	821	973	1109	1309	1208	1255	1186	1087	1171	1341	1108
	70-74	365	460	549	631	749	692	720	679	623	672	768
	75-79	123	178	227	273	317	378	349	364	341	313	340
	80-84	48	36	53	70	85	99	117	108	113	104	97
	85 plus	20	21	19	24	32	42	50	60	61	62	60
	Total	18572	18777	18718	18390	17848	17144	16306	15405	14415	13285	12125



Appendix G-5: Scenario 1 Labour Force Projections (numbers), Whakatane

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	512	424	396	366	305	291	269	240	212	191	173
	20-24	732	611	510	474	440	366	349	322	289	255	229
	25-29	576	729	607	508	471	438	364	347	321	287	254
	30-34	666	640	810	674	564	524	487	405	386	357	319
	35-39	713	706	679	859	716	599	556	517	430	409	378
	40-44	974	733	726	699	884	738	616	573	532	443	421
	45-49	997	896	674	669	645	815	680	568	528	491	408
	50-54	1068	990	890	671	665	640	811	675	565	525	488
	55-59	1015	1051	976	880	664	658	633	803	667	559	519
	60-64	659	915	950	885	798	603	598	575	729	606	508
	65-69	299	413	575	599	561	507	383	379	364	463	384
	70-74	109	152	211	295	309	289	261	197	195	188	238
	75-79	42	56	79	109	154	161	150	135	102	102	98
	80-84	25	19	26	37	50	73	75	69	63	47	47
	85 plus	10	8	7	7	11	15	21	24	24	23	19
	Total	8397	8343	8116	7732	7237	6717	6253	5829	5407	4946	4483
Male	15-19	622	467	428	360	317	302	278	249	220	198	179
	20-24	929	670	505	464	391	343	326	302	270	238	214
	25-29	730	895	642	485	446	379	330	314	290	259	229
	30-34	703	745	914	655	495	455	387	337	320	296	265
	35-39	742	746	791	972	696	526	484	412	358	341	315
	40-44	912	788	793	842	1033	741	561	515	438	381	363
	45-49	872	918	794	801	850	1044	749	566	521	442	385
	50-54	1014	910	957	831	837	889	1094	783	593	545	464
	55-59	930	1107	993	1048	911	918	976	1200	860	650	598
	60-64	795	903	1080	971	1029	894	902	958	1177	844	638
	65-69	412	524	599	720	650	690	599	605	642	788	566
	70-74	178	225	288	332	402	364	386	335	339	359	441
	75-79	70	84	108	139	162	197	177	189	164	166	175
	80-84	26	17	21	28	36	42	51	45	49	42	43
	85 plus	19	21	18	18	23	30	37	45	46	47	44
	Total	8954	9020	8931	8666	8278	7814	7337	6855	6287	5596	4919



Appendix G-6: Scenario 1 Labour Force Projections (numbers), Kawerau

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	115	49	41	28	23	21	18	13	9	6	5
	20-24	118	100	43	35	24	20	18	15	11	7	5
	25-29	125	179	151	66	53	37	30	28	23	17	11
	30-34	123	138	195	165	71	58	40	33	31	26	18
	35-39	143	113	126	180	152	66	54	37	31	28	24
	40-44	171	180	143	158	227	192	83	68	47	39	36
	45-49	150	185	195	155	171	246	208	91	74	51	42
	50-54	159	163	201	213	169	188	269	228	99	80	55
	55-59	110	142	146	180	190	151	168	241	204	89	72
	60-64	87	84	109	112	139	146	116	130	185	157	68
	65-69	53	48	47	61	63	78	82	66	73	104	88
	70-74	19	23	21	21	27	28	35	37	29	33	46
	75-79	10	9	11	10	10	14	14	17	18	14	17
	80-84	4	2	2	3	2	2	3	3	4	4	3
	85 +	-	-	-	-	-	-	-	-	-	-	-
	Total	1387	1415	1431	1387	1321	1247	1138	1007	838	655	490
Male	15-19	105	79	53	39	30	27	23	16	11	8	6
	20-24	198	101	77	51	38	29	26	22	16	11	8
	25-29	144	185	94	72	48	36	27	25	20	15	10
	30-34	95	122	157	80	61	41	31	23	21	17	12
	35-39	133	98	125	162	83	63	42	32	23	21	18
	40-44	147	142	104	133	171	87	67	45	33	25	23
	45-49	145	155	149	110	141	181	93	71	47	36	26
	50-54	151	141	151	146	108	138	178	91	70	46	35
	55-59	136	194	182	196	189	140	179	230	118	90	60
	60-64	116	119	170	160	173	167	124	158	204	104	80
	65-69	56	66	68	98	93	100	97	72	92	118	60
	70-74	24	29	34	36	52	49	53	52	38	49	62
	75-79	11	10	13	15	16	23	22	24	23	17	21
	80-84	-	-	-	-	-	-	-	-	-	-	-
	85 plus	3	5	4	4	5	6	7	9	10	10	10
	Total	1464	1446	1381	1302	1208	1087	969	870	726	567	431



Appendix G-7: Scenario 1 Labour Force Projections (numbers), Opotiki

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	146	103	63	60	49	52	49	41	31	25	21
	20-24	147	138	98	61	58	46	49	47	39	30	23
	25-29	113	174	163	115	72	69	54	57	55	46	35
	30-34	126	164	252	236	167	104	100	78	83	79	66
	35-39	143	145	189	289	270	191	119	113	89	95	91
	40-44	231	156	158	206	314	294	208	130	123	97	103
	45-49	235	232	157	159	208	317	296	210	130	124	98
	50-54	261	233	230	155	158	206	315	295	208	130	123
	55-59	228	251	225	222	150	153	199	304	285	202	126
	60-64	165	178	196	176	174	118	120	157	239	223	158
	65-69	75	76	82	91	82	81	55	56	73	111	104
	70-74	48	51	52	56	62	56	56	38	38	50	77
	75-79	14	16	17	18	19	21	19	19	13	13	17
	80-84	12	9	10	11	11	12	14	12	12	8	9
	85 plus	-	-	-	-	-	-	-	-	-	-	-
	Total	1944	1926	1892	1855	1794	1720	1653	1557	1418	1233	1051
Male	15-19	142	110	85	72	65	69	66	54	42	33	29
	20-24	230	204	159	122	104	93	99	94	78	60	47
	25-29	150	227	201	158	121	104	92	98	94	78	60
	30-34	124	167	254	225	177	135	116	103	109	105	87
	35-39	134	120	161	245	217	171	131	112	100	106	101
	40-44	177	129	116	156	237	210	164	126	108	96	102
	45-49	179	165	121	108	146	222	197	154	118	101	90
	50-54	243	188	174	127	114	154	234	207	163	125	106
	55-59	234	247	192	178	131	117	158	240	213	167	128
	60-64	204	233	247	192	178	131	118	158	241	213	167
	65-69	118	121	139	148	116	108	79	71	95	145	129
	70-74	64	84	85	100	107	83	77	56	51	69	105
	75-79	24	21	28	29	34	37	29	26	19	18	24
	80-84	20	16	15	20	21	25	27	21	19	14	13
	85 plus	10	10	10	9	12	13	15	17	15	13	11
	Total	2053	2042	1987	1889	1780	1672	1602	1537	1465	1343	1199



Appendix G-8: Scenario 1 Labour Force Projections (numbers), Bay of Plenty

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	4460	3806	3875	3785	3442	3422	3311	3164	3042	2967	2892
	20-24	5759	5257	4663	4863	4886	4424	4395	4262	4084	3944	3854
	25-29	5213	6204	5689	5075	5323	5245	4748	4722	4584	4396	4246
	30-34	5503	6143	7352	6700	5976	6087	6006	5445	5426	5277	5059
	35-39	6074	6509	7256	8690	7877	6868	7025	6936	6308	6302	6138
	40-44	8037	7180	7625	8434	10049	8897	7747	7943	7833	7142	7147
	45-49	8397	8824	7882	8330	9185	10817	9565	8324	8538	8413	7678
	50-54	8602	8841	9300	8324	8789	9628	11347	10026	8725	8954	8821
	55-59	7394	8707	9016	9546	8616	9029	9900	11701	10316	8998	9240
	60-64	5391	7044	8431	8865	9524	8472	8923	9781	11526	10179	8934
	65-69	2580	3383	4595	5677	6158	6444	5730	6051	6625	7800	6891
	70-74	977	1409	1899	2652	3348	3435	3587	3180	3358	3679	4346
	75-79	373	535	773	1040	1461	1713	1743	1811	1606	1687	1855
	80-84	150	130	189	278	368	483	563	567	586	515	544
	85 plus	105	104	97	118	173	225	293	355	387	407	388
	Total	69015	74076	78642	82377	85175	85189	84883	84268	82944	80660	78033
Male	15-19	4707	4171	4145	4069	3683	3659	3533	3356	3212	3119	3032
	20-24	7422	6177	5545	5530	5472	4963	4934	4779	4560	4380	4267
	25-29	6187	7404	6160	5564	5548	5513	4999	4976	4825	4611	4437
	30-34	6086	6583	7901	6596	5993	5977	5971	5408	5393	5240	5017
	35-39	6654	6662	7205	8661	7252	6610	6607	6625	5999	5994	5833
	40-44	7735	7124	7145	7732	9293	7794	7108	7117	7141	6471	6467
	45-49	7836	8072	7444	7471	8090	9730	8179	7460	7473	7511	6796
	50-54	8368	8105	8355	7710	7756	8400	10120	8506	7784	7794	7853
	55-59	7376	8858	8605	8878	8209	8258	8951	10802	9075	8313	8322
	60-64	6203	7474	9007	8801	9101	8419	8498	9205	11114	9353	8607
	65-69	3707	4607	5602	6787	6694	6930	6425	6521	7056	8505	7181
	70-74	1611	2214	2765	3395	4135	4086	4227	3916	3985	4316	5202
	75-79	599	807	1119	1399	1740	2119	2072	2132	1968	1990	2166
	80-84	244	186	256	365	455	567	687	663	680	623	634
	85 plus	131	144	133	154	213	280	356	438	465	473	453
	Total	74866	78588	81387	83112	83634	83305	82667	81904	80730	78693	76267



Appendix G-9: Scenario 2 Labour Force Projections (numbers), Western Bay of Plenty

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	642	538	555	517	497	522	513	480	445	428	420
	20-24	785	642	562	589	563	537	563	555	520	483	463
	25-29	556	863	705	630	667	625	595	624	616	578	535
	30-34	643	772	1201	979	877	900	843	803	842	832	780
	35-39	864	901	1082	1676	1366	1184	1214	1138	1084	1136	1122
	40-44	1290	1196	1225	1441	2193	1740	1502	1541	1442	1375	1442
	45-49	1495	1505	1387	1415	1659	2491	1982	1705	1750	1637	1562
	50-54	1628	1622	1636	1511	1543	1795	2696	2143	1846	1894	1772
	55-59	1494	1755	1757	1779	1651	1671	1944	2919	2320	1999	2051
	60-64	1021	1389	1669	1707	1765	1618	1638	1905	2862	2273	1960
	65-69	539	674	940	1156	1206	1209	1107	1123	1307	1962	1568
	70-74	237	307	393	560	701	696	698	639	648	754	1131
	75-79	108	163	215	279	404	473	469	470	430	437	508
	80-84	31	37	57	78	102	136	159	157	157	143	146
	85 plus	13	17	21	32	49	61	78	95	102	105	100
	Total	11346	12381	13405	14349	15243	15658	16001	16297	16371	16036	15560
Male	15-19	744	677	658	722	588	617	607	568	527	506	496
	20-24	1011	947	868	842	927	753	789	778	728	676	649
	25-29	769	1019	950	879	848	938	760	796	786	736	683
	30-34	800	906	1203	1122	1039	1002	1108	897	940	928	870
	35-39	1025	954	1083	1436	1340	1240	1196	1322	1071	1123	1108
	40-44	1238	1130	1052	1195	1586	1480	1369	1321	1459	1183	1239
	45-49	1455	1375	1256	1171	1330	1766	1649	1523	1470	1624	1316
	50-54	1647	1563	1479	1352	1260	1429	1899	1772	1641	1582	1750
	55-59	1592	1851	1760	1667	1526	1423	1614	2145	2001	1853	1787
	60-64	1297	1656	1930	1842	1748	1601	1491	1691	2248	2097	1944
	65-69	839	1002	1284	1503	1433	1361	1247	1164	1323	1756	1640
	70-74	392	516	621	801	942	899	853	782	729	831	1100
	75-79	193	259	346	420	546	644	608	577	531	496	569
	80-84	77	64	89	120	147	192	227	212	201	185	174
	85 plus	39	50	51	63	85	110	143	175	184	179	168
	Total	13118	13969	14630	15135	15345	15455	15560	15723	15839	15755	15493



Appendix G-10: Scenario 2 Labour Force Projections (numbers), Tauranga

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	1833	1725	1916	2008	1860	1871	1862	1861	1883	1905	1903
	20-24	2421	2348	2265	2560	2745	2538	2553	2540	2538	2568	2599
	25-29	2391	2616	2556	2487	2827	2978	2752	2769	2755	2753	2785
	30-34	2447	2758	3031	2969	2903	3209	3385	3126	3145	3129	3126
	35-39	2501	2970	3329	3638	3549	3361	3718	3918	3620	3642	3624
	40-44	3381	2978	3496	3873	4182	3977	3761	4164	4383	4053	4077
	45-49	3424	3720	3256	3798	4180	4443	4225	3996	4425	4657	4306
	50-54	3423	3608	3920	3432	4001	4363	4638	4408	4170	4617	4862
	55-59	2873	3453	3679	4032	3570	4119	4493	4777	4529	4295	4750
	60-64	2161	2920	3560	3841	4265	3715	4284	4672	4972	4712	4470
	65-69	1010	1356	1919	2438	2735	2955	2578	2969	3239	3448	3262
	70-74	343	541	747	1085	1410	1484	1603	1396	1611	1756	1869
	75-79	116	169	264	359	515	616	646	699	605	700	763
	80-84	43	36	56	91	125	167	200	209	225	193	226
	85 plus	46	47	42	48	69	92	122	151	170	184	177
	Total	28413	31245	34036	36659	38936	39888	40820	41655	42270	42612	42799
Male	15-19	1822	1759	1876	1911	1834	1846	1837	1835	1857	1880	1877
	20-24	3064	2609	2534	2695	2753	2641	2657	2644	2642	2673	2706
	25-29	2715	3163	2690	2619	2778	2842	2726	2743	2729	2727	2759
	30-34	2808	2969	3460	2934	2870	3038	3113	2984	3003	2988	2986
	35-39	2887	3161	3344	3899	3308	3234	3424	3508	3363	3384	3368
	40-44	3347	3134	3434	3634	4238	3601	3514	3725	3813	3657	3679
	45-49	3264	3477	3258	3574	3783	4412	3751	3658	3879	3969	3807
	50-54	3273	3438	3666	3439	3773	3996	4662	3956	3867	4094	4194
	55-59	2801	3491	3675	3922	3689	4044	4283	4994	4236	4145	4388
	60-64	2384	2967	3706	3913	4185	3936	4315	4572	5334	4517	4428
	65-69	1461	1921	2403	3009	3194	3416	3217	3522	3733	4357	3678
	70-74	588	900	1188	1495	1883	1999	2138	2012	2205	2336	2726
	75-79	178	255	397	523	665	840	887	952	890	980	1037
	80-84	73	53	78	127	166	209	265	277	298	278	307
	85 plus	40	37	31	36	56	79	104	132	149	162	160
	Total	30705	33334	35740	37730	39175	40133	40893	41514	41998	42147	42100



Appendix G-11: Scenario 2 Labour Force Projections (numbers), Rotorua

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	1212	962	898	796	697	655	592	521	455	406	365
	20-24	1556	1394	1150	1099	1002	873	821	744	654	572	509
	25-29	1452	1608	1448	1202	1155	1027	895	841	762	670	586
	30-34	1498	1655	1815	1614	1330	1238	1101	959	901	817	718
	35-39	1710	1659	1821	1989	1757	1419	1321	1175	1023	961	871
	40-44	1990	1928	1858	2029	2203	1916	1545	1439	1280	1114	1047
	45-49	2096	2275	2195	2108	2289	2462	2137	1727	1607	1431	1244
	50-54	2063	2220	2414	2333	2241	2423	2602	2264	1825	1699	1512
	55-59	1674	2041	2207	2412	2343	2236	2418	2596	2259	1821	1695
	60-64	1298	1527	1882	2054	2266	2179	2080	2249	2414	2101	1693
	65-69	604	788	957	1214	1363	1478	1421	1357	1466	1575	1370
	70-74	221	315	425	533	694	747	811	779	744	805	863
	75-79	83	115	166	225	284	349	372	404	389	371	403
	80-84	35	26	36	53	71	84	103	108	118	114	107
	85 plus	36	29	21	22	28	37	45	55	61	67	68
	Total	17528	18542	19293	19683	19723	19123	18264	17218	15958	14524	13051
Male	15-19	1272	1079	1045	965	849	798	722	634	555	494	445
	20-24	1990	1646	1402	1356	1259	1104	1037	939	826	722	643
	25-29	1679	1915	1583	1351	1307	1214	1064	1000	906	796	696
	30-34	1556	1674	1913	1580	1351	1306	1216	1064	1000	906	797
	35-39	1733	1583	1701	1947	1608	1376	1330	1239	1084	1019	923
	40-44	1914	1801	1646	1772	2028	1675	1433	1385	1290	1129	1061
	45-49	1921	1982	1866	1707	1840	2105	1740	1488	1438	1339	1172
	50-54	2040	1865	1928	1815	1664	1794	2053	1697	1450	1402	1304
	55-59	1683	1968	1803	1867	1763	1616	1741	1993	1647	1408	1361
	60-64	1407	1596	1874	1723	1788	1690	1548	1668	1910	1578	1350
	65-69	821	973	1109	1309	1208	1255	1186	1087	1171	1341	1108
	70-74	365	460	549	631	749	692	720	679	623	672	768
	75-79	123	178	227	273	317	378	349	364	341	313	340
	80-84	48	36	53	70	85	99	117	108	113	104	97
	85 plus	20	21	19	24	32	42	50	60	61	62	60
	Total	18572	18777	18718	18390	17848	17144	16306	15405	14415	13285	12125



Appendix G-12: Scenario 2 Labour Force Projections (numbers), Whakatane

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	512	428	402	375	315	300	277	248	219	197	178
	20-24	732	624	533	506	480	399	380	351	314	278	249
	25-29	576	752	645	556	531	494	410	391	361	323	286
	30-34	666	652	842	714	609	565	526	437	416	385	344
	35-39	713	717	700	899	760	636	591	549	456	435	402
	40-44	974	741	743	723	923	772	644	599	556	462	440
	45-49	997	906	689	691	672	849	709	592	550	511	425
	50-54	1068	994	897	678	675	650	823	685	574	533	495
	55-59	1015	1059	991	899	684	677	652	826	686	576	534
	60-64	659	938	996	949	876	662	656	631	800	665	558
	65-69	299	436	639	699	686	619	468	463	445	566	469
	70-74	109	168	253	385	434	406	366	277	274	264	335
	75-79	42	62	97	146	224	234	218	197	148	148	142
	80-84	25	19	26	39	53	77	80	73	66	50	50
	85 plus	10	10	10	12	20	28	40	46	46	43	35
	Total	8399	8505	8461	8270	7942	7366	6840	6364	5914	5434	4944
Male	15-19	622	467	428	360	317	302	278	249	220	198	179
	20-24	929	670	505	464	391	343	326	302	270	238	214
	25-29	730	895	642	485	446	379	330	314	290	259	229
	30-34	703	745	914	655	495	455	387	337	320	296	265
	35-39	742	746	791	972	696	526	484	412	358	341	315
	40-44	912	788	793	842	1033	741	561	515	438	381	363
	45-49	872	918	794	801	850	1044	749	566	521	442	385
	50-54	1014	910	957	831	837	889	1094	783	593	545	464
	55-59	930	1107	993	1048	911	918	976	1200	860	650	598
	60-64	795	903	1080	971	1029	894	902	958	1177	844	638
	65-69	412	524	599	720	650	690	599	605	642	788	566
	70-74	178	225	288	332	402	364	386	335	339	359	441
	75-79	70	84	108	139	162	197	177	189	164	166	175
	80-84	26	17	21	28	36	42	51	45	49	42	43
	85 plus	19	21	18	18	23	30	37	45	46	47	44
	Total	8954	9020	8931	8666	8278	7814	7337	6855	6287	5596	4919



Appendix G-13: Scenario 2 Labour Force Projections (numbers), Kawerau

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	115	50	41	29	24	22	18	13	9	6	5
	20-24	118	106	49	42	30	25	23	19	14	9	7
	25-29	125	184	159	71	59	41	34	31	26	19	13
	30-34	123	139	200	172	75	61	42	35	32	27	19
	35-39	143	116	133	195	169	73	60	41	34	31	26
	40-44	171	181	145	161	233	197	86	70	48	40	37
	45-49	150	186	198	159	177	255	216	94	76	53	43
	50-54	159	163	201	213	169	188	269	228	99	80	55
	55-59	110	146	154	196	213	169	188	269	228	99	81
	60-64	87	87	117	123	157	166	131	148	210	178	77
	65-69	53	49	49	64	68	84	89	71	79	113	95
	70-74	19	24	23	23	32	32	40	42	33	38	53
	75-79	10	9	11	10	10	14	14	17	18	14	17
	80-84	4	2	2	3	2	2	3	3	4	4	3
	85 plus	-	-	1	1	2	2	2	2	2	2	3
	Total	1386	1443	1484	1461	1420	1332	1215	1083	912	713	534
Male	15-19	105	79	53	39	30	27	23	16	11	8	6
	20-24	198	101	77	51	38	29	26	22	16	11	8
	25-29	144	185	94	72	48	36	27	25	20	15	10
	30-34	95	122	157	80	61	41	31	23	21	17	12
	35-39	133	98	125	162	83	63	42	32	23	21	18
	40-44	147	142	104	133	171	87	67	45	33	25	23
	45-49	145	155	149	110	141	181	93	71	47	36	26
	50-54	151	141	151	146	108	138	178	91	70	46	35
	55-59	136	194	182	196	189	140	179	230	118	90	60
	60-64	116	119	170	160	173	167	124	158	204	104	80
	65-69	56	66	68	98	93	100	97	72	92	118	60
	70-74	24	29	34	36	52	49	53	52	38	49	62
	75-79	11	10	13	15	16	23	22	24	23	17	21
	80-84	-	-	-	-	-	-	-	-	-	-	-
	85 plus	3	5	4	4	5	6	7	9	10	10	10
	Total	1464	1446	1381	1302	1208	1087	969	870	726	567	431



Appendix G-14: Scenario 2 Labour Force Projections (numbers), Opotiki

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	146	103	63	60	49	52	49	41	31	25	21
	20-24	147	143	104	67	66	52	55	53	44	34	27
	25-29	113	181	176	129	84	80	62	66	64	53	41
	30-34	126	167	263	252	182	114	109	85	90	87	72
	35-39	143	146	191	293	276	195	121	115	91	97	93
	40-44	231	156	158	207	315	295	209	130	124	98	104
	45-49	235	232	157	159	208	317	296	210	130	124	98
	50-54	261	234	232	157	160	209	319	298	211	131	125
	55-59	228	253	228	228	155	157	205	314	294	208	129
	60-64	165	183	207	191	195	132	134	176	268	250	176
	65-69	75	80	91	106	100	99	67	68	89	136	127
	70-74	48	54	58	66	77	70	69	47	48	62	95
	75-79	14	17	20	21	24	27	24	24	16	17	22
	80-84	12	10	12	14	15	17	18	17	16	11	12
	85 plus	-	1	2	3	5	5	6	6	6	6	5
	Total	1947	1959	1962	1953	1910	1820	1745	1649	1522	1338	1146
Male	15-19	142	110	85	72	65	69	66	54	42	33	29
	20-24	230	204	159	122	104	93	99	94	78	60	47
	25-29	150	227	201	158	121	104	92	98	94	78	60
	30-34	124	167	254	225	177	135	116	103	109	105	87
	35-39	134	120	161	245	217	171	131	112	100	106	101
	40-44	177	129	116	156	237	210	164	126	108	96	102
	45-49	179	165	121	108	146	222	197	154	118	101	90
	50-54	243	188	174	127	114	154	234	207	163	125	106
	55-59	234	247	192	178	131	117	158	240	213	167	128
	60-64	204	233	247	192	178	131	118	158	241	213	167
	65-69	118	121	139	148	116	108	79	71	95	145	129
	70-74	64	84	85	100	107	83	77	56	51	69	105
	75-79	24	21	28	29	34	37	29	26	19	18	24
	80-84	20	16	15	20	21	25	27	21	19	14	13
	85 plus	10	10	10	9	12	13	15	17	15	13	11
	Total	2053	2042	1987	1889	1780	1672	1602	1537	1465	1343	1199



Appendix G-15: Scenario 2 Labour Force Projections (numbers), Bay of Plenty

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	4460	3806	3875	3785	3442	3422	3311	3164	3042	2967	2892
	20-24	5759	5257	4663	4863	4886	4424	4395	4262	4084	3944	3854
	25-29	5213	6204	5689	5075	5323	5245	4748	4722	4584	4396	4246
	30-34	5503	6143	7352	6700	5976	6087	6006	5445	5426	5277	5059
	35-39	6074	6509	7256	8690	7877	6868	7025	6936	6308	6302	6138
	40-44	8037	7180	7625	8434	10049	8897	7747	7943	7833	7142	7147
	45-49	8397	8824	7882	8330	9185	10817	9565	8324	8538	8413	7678
	50-54	8602	8841	9300	8324	8789	9628	11347	10026	8725	8954	8821
	55-59	7394	8707	9016	9546	8616	9029	9900	11701	10316	8998	9240
	60-64	5391	7044	8431	8865	9524	8472	8923	9781	11526	10179	8934
	65-69	2580	3383	4595	5677	6158	6444	5730	6051	6625	7800	6891
	70-74	977	1409	1899	2652	3348	3435	3587	3180	3358	3679	4346
	75-79	373	535	773	1040	1461	1713	1743	1811	1606	1687	1855
	80-84	150	130	189	278	368	483	563	567	586	515	544
	85 plus	105	104	97	118	173	225	293	355	387	407	388
	Total	69015	74076	78642	82377	85175	85189	84883	84268	82944	80660	78033
Male	15-19	4707	4171	4145	4069	3683	3659	3533	3356	3212	3119	3032
	20-24	7422	6177	5545	5530	5472	4963	4934	4779	4560	4380	4267
	25-29	6187	7404	6160	5564	5548	5513	4999	4976	4825	4611	4437
	30-34	6086	6583	7901	6596	5993	5977	5971	5408	5393	5240	5017
	35-39	6654	6662	7205	8661	7252	6610	6607	6625	5999	5994	5833
	40-44	7735	7124	7145	7732	9293	7794	7108	7117	7141	6471	6467
	45-49	7836	8072	7444	7471	8090	9730	8179	7460	7473	7511	6796
	50-54	8368	8105	8355	7710	7756	8400	10120	8506	7784	7794	7853
	55-59	7376	8858	8605	8878	8209	8258	8951	10802	9075	8313	8322
	60-64	6203	7474	9007	8801	9101	8419	8498	9205	11114	9353	8607
	65-69	3707	4607	5602	6787	6694	6930	6425	6521	7056	8505	7181
	70-74	1611	2214	2765	3395	4135	4086	4227	3916	3985	4316	5202
	75-79	599	807	1119	1399	1740	2119	2072	2132	1968	1990	2166
	80-84	244	186	256	365	455	567	687	663	680	623	634
	85 plus	131	144	133	154	213	280	356	438	465	473	453
	Total	74866	78588	81387	83112	83634	83305	82667	81904	80730	78693	76267



Appendix G-16: Scenario 3 Labour Force Projections (numbers), Western Bay of Plenty

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	642	537	552	513	492	516	508	475	441	424	415
	20-24	785	628	537	552	516	493	517	509	477	443	425
	25-29	556	834	660	571	586	549	523	548	541	507	470
	30-34	643	746	1121	884	768	787	738	703	737	728	682
	35-39	864	872	1013	1521	1203	1042	1069	1002	955	1001	988
	40-44	1290	1181	1193	1386	2082	1652	1426	1463	1370	1306	1369
	45-49	1495	1493	1366	1382	1608	2414	1921	1653	1696	1587	1514
	50-54	1628	1615	1621	1490	1516	1763	2647	2105	1813	1860	1740
	55-59	1494	1752	1752	1772	1642	1663	1934	2904	2308	1989	2041
	60-64	1021	1433	1770	1857	1966	1802	1825	2122	3188	2532	2183
	65-69	539	747	1133	1493	1652	1655	1516	1538	1790	2686	2147
	70-74	237	344	480	732	969	963	965	884	896	1043	1564
	75-79	108	166	224	295	432	506	501	502	459	467	543
	80-84	31	40	66	94	127	169	198	196	196	178	182
	85 plus	13	16	20	31	47	59	75	92	99	101	96
	Total	11346	12404	13508	14573	15606	16033	16363	16696	16966	16852	16359
Male	15-19	744	677	658	722	588	617	607	568	527	506	496
	20-24	1011	947	868	842	927	753	789	778	728	676	649
	25-29	769	1019	950	879	848	938	760	796	786	736	683
	30-34	800	906	1203	1122	1039	1002	1108	897	940	928	870
	35-39	1025	954	1083	1436	1340	1240	1196	1322	1071	1123	1108
	40-44	1238	1130	1052	1195	1586	1480	1369	1321	1459	1183	1239
	45-49	1455	1375	1256	1171	1330	1766	1649	1523	1470	1624	1316
	50-54	1647	1567	1485	1361	1271	1442	1917	1789	1656	1597	1766
	55-59	1592	1859	1776	1690	1554	1448	1643	2183	2037	1886	1819
	60-64	1297	1694	2019	1970	1909	1748	1628	1847	2454	2290	2123
	65-69	839	1117	1579	2023	2094	1989	1823	1700	1933	2566	2396
	70-74	392	598	818	1182	1541	1470	1395	1279	1193	1359	1799
	75-79	193	285	414	543	759	895	846	803	739	690	792
	80-84	77	76	122	188	258	337	398	372	352	324	304
	85 plus	39	54	59	77	111	144	187	228	240	234	219
	Total	13118	14258	15342	16401	17155	17269	17315	17406	17585	17722	17579



Appendix G-17: Scenario 3 Labour Force Projections (numbers), Tauranga

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	1833	1725	1916	2008	1860	1871	1862	1861	1883	1905	1903
	20-24	2421	2301	2175	2410	2536	2345	2359	2347	2345	2372	2401
	25-29	2391	2540	2412	2283	2527	2661	2460	2474	2462	2460	2489
	30-34	2447	2665	2833	2687	2547	2815	2970	2743	2759	2746	2743
	35-39	2501	2885	3143	3340	3172	3004	3323	3502	3236	3255	3239
	40-44	3381	2929	3382	3685	3916	3724	3522	3900	4105	3796	3818
	45-49	3424	3684	3192	3688	4021	4273	4064	3843	4256	4479	4141
	50-54	3423	3575	3850	3340	3860	4209	4474	4252	4023	4454	4690
	55-59	2873	3472	3718	4096	3644	4205	4586	4876	4623	4384	4848
	60-64	2161	2979	3700	4061	4582	3991	4603	5020	5342	5062	4802
	65-69	1010	1606	2577	3611	4380	4733	4128	4756	5187	5521	5224
	70-74	343	662	1048	1681	2358	2481	2681	2335	2694	2938	3125
	75-79	116	207	372	561	873	1045	1096	1187	1027	1188	1295
	80-84	43	41	69	120	174	232	278	290	313	268	313
	85 plus	46	45	38	41	56	74	98	122	137	149	142
	Total	28413	31316	34425	37612	40506	41663	42504	43508	44392	44977	45173
Male	15-19	1822	1759	1876	1911	1834	1846	1837	1835	1857	1880	1877
	20-24	3064	2609	2534	2695	2753	2641	2657	2644	2642	2673	2706
	25-29	2715	3163	2690	2619	2778	2842	2726	2743	2729	2727	2759
	30-34	2808	2969	3460	2934	2870	3038	3113	2984	3003	2988	2986
	35-39	2887	3161	3344	3899	3308	3234	3424	3508	3363	3384	3368
	40-44	3347	3134	3434	3634	4238	3601	3514	3725	3813	3657	3679
	45-49	3264	3489	3281	3611	3836	4474	3803	3709	3933	4025	3860
	50-54	3273	3443	3676	3454	3794	4019	4688	3979	3889	4117	4218
	55-59	2801	3515	3727	4005	3792	4157	4403	5134	4354	4260	4511
	60-64	2384	3046	3901	4223	4628	4352	4771	5055	5898	4995	4896
	65-69	1461	2208	3123	4362	5108	5464	5145	5634	5971	6969	5883
	70-74	588	1144	1832	2710	3923	4164	4455	4193	4593	4867	5679
	75-79	178	356	714	1148	1724	2179	2300	2468	2308	2540	2689
	80-84	73	64	111	207	306	385	491	512	550	513	568
	85 plus	40	42	39	50	85	121	158	201	227	246	244
	Total	30705	34104	37742	41463	44978	46516	47483	48323	49131	49842	49924



Appendix G-18: Scenario 3 Labour Force Projections (numbers), Rotorua

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	1212	962	898	796	697	655	592	521	455	406	365
	20-24	1556	1357	1090	1015	902	787	739	670	589	515	458
	25-29	1452	1555	1355	1089	1015	902	786	739	669	589	515
	30-34	1498	1617	1735	1509	1216	1132	1007	877	824	747	657
	35-39	1710	1630	1758	1888	1640	1325	1233	1097	955	897	813
	40-44	1990	1907	1816	1962	2107	1832	1478	1376	1224	1065	1001
	45-49	2096	2260	2167	2067	2231	2399	2082	1683	1566	1394	1213
	50-54	2063	2215	2404	2319	2223	2404	2581	2246	1811	1686	1500
	55-59	1674	2044	2213	2423	2357	2249	2432	2611	2272	1831	1705
	60-64	1298	1553	1943	2152	2409	2316	2211	2391	2566	2233	1800
	65-69	604	896	1207	1669	2015	2186	2102	2006	2169	2329	2026
	70-74	221	369	560	768	1078	1160	1259	1210	1155	1250	1340
	75-79	83	129	204	297	397	487	520	565	543	518	563
	80-84	35	28	43	68	96	113	139	146	159	154	145
	85 plus	36	29	21	22	28	37	45	55	61	67	68
	Total	17528	18551	19414	20044	20411	19984	19206	18193	17018	15681	14169
Male	15-19	1272	1079	1045	965	849	798	722	634	555	494	445
	20-24	1990	1646	1402	1356	1259	1104	1037	939	826	722	643
	25-29	1679	1915	1583	1351	1307	1214	1064	1000	906	796	696
	30-34	1556	1674	1913	1580	1351	1306	1216	1064	1000	906	797
	35-39	1733	1583	1701	1947	1608	1376	1330	1239	1084	1019	923
	40-44	1914	1801	1646	1772	2028	1675	1433	1385	1290	1129	1061
	45-49	1921	1983	1867	1708	1841	2107	1741	1489	1440	1340	1173
	50-54	2040	1873	1943	1837	1690	1823	2085	1724	1473	1424	1325
	55-59	1683	1978	1821	1895	1798	1648	1775	2032	1679	1436	1388
	60-64	1407	1628	1948	1826	1931	1825	1672	1801	2062	1703	1457
	65-69	821	1085	1366	1763	1767	1836	1735	1590	1713	1961	1620
	70-74	365	543	748	974	1293	1195	1243	1173	1075	1160	1326
	75-79	123	216	323	446	587	699	645	672	630	579	628
	80-84	48	43	76	115	157	184	219	201	211	195	180
	85 plus	20	25	26	36	55	71	85	101	103	106	102
	Total	18572	19072	19408	19571	19521	18861	18002	17044	16047	14970	13764



Appendix G-19: Scenario 3 Labour Force Projections (numbers), Whakatane

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	512	424	396	366	305	291	269	240	212	191	173
	20-24	732	611	510	474	440	366	349	322	289	255	229
	25-29	576	729	607	508	471	438	364	347	321	287	254
	30-34	666	640	810	674	564	524	487	405	386	357	319
	35-39	713	706	679	859	716	599	556	517	430	409	378
	40-44	974	733	726	699	884	738	616	573	532	443	421
	45-49	997	898	678	674	651	822	687	573	533	495	412
	50-54	1068	990	890	671	665	640	811	675	565	525	488
	55-59	1015	1061	994	904	688	682	656	832	691	580	538
	60-64	659	972	1067	1048	995	752	745	716	909	755	633
	65-69	299	502	822	986	1044	942	712	705	678	861	713
	70-74	109	199	340	567	688	644	581	439	435	419	531
	75-79	42	69	117	187	303	316	294	265	200	200	192
	80-84	25	20	28	43	61	88	92	84	76	57	57
	85 plus	10	11	11	15	24	33	48	55	55	51	42
	Total	8397	8565	8675	8675	8499	7875	7267	6748	6312	5885	5380
Male	15-19	622	467	428	360	317	302	278	249	220	198	179
	20-24	929	670	505	464	391	343	326	302	270	238	214
	25-29	730	895	642	485	446	379	330	314	290	259	229
	30-34	703	745	914	655	495	455	387	337	320	296	265
	35-39	742	746	791	972	696	526	484	412	358	341	315
	40-44	912	788	793	842	1033	741	561	515	438	381	363
	45-49	872	922	800	810	863	1060	760	575	528	449	391
	50-54	1014	913	964	840	849	902	1110	795	602	553	471
	55-59	930	1109	997	1054	918	926	984	1210	867	656	603
	60-64	795	927	1137	1048	1137	988	997	1059	1301	933	705
	65-69	412	594	760	1010	999	1060	920	930	987	1211	870
	70-74	178	269	401	527	716	647	687	596	602	639	784
	75-79	70	102	155	229	302	367	330	351	305	308	326
	80-84	26	22	32	50	74	87	107	94	102	87	89
	85 plus	19	21	18	18	23	30	37	45	46	47	44
	Total	8951	9187	9337	9363	9259	8813	8298	7783	7234	6597	5847



Appendix G-20: Scenario 3 Labour Force Projections (numbers), Kawerau

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	115	49	41	28	23	21	18	13	9	6	5
	20-24	118	100	43	35	24	20	18	15	11	7	5
	25-29	125	179	151	66	53	37	30	28	23	17	11
	30-34	123	138	195	165	71	58	40	33	31	26	18
	35-39	143	113	126	180	152	66	54	37	31	28	24
	40-44	171	180	143	158	227	192	83	68	47	39	36
	45-49	150	186	198	159	177	255	216	94	76	53	43
	50-54	159	163	201	213	169	188	269	228	99	80	55
	55-59	110	148	158	203	222	177	197	282	238	103	84
	60-64	87	91	128	141	186	197	156	175	249	211	91
	65-69	53	58	66	98	114	141	149	119	132	189	160
	70-74	19	30	34	39	61	62	77	81	64	73	103
	75-79	10	10	13	13	13	18	18	22	24	18	21
	80-84	4	3	3	5	5	5	7	7	9	9	7
	85 plus	-	1	1	1	2	2	2	2	2	3	3
	Total	1387	1449	1501	1504	1499	1439	1334	1204	1045	862	666
Male	15-19	105	79	53	39	30	27	23	16	11	8	6
	20-24	198	101	77	51	38	29	26	22	16	11	8
	25-29	144	185	94	72	48	36	27	25	20	15	10
	30-34	95	122	157	80	61	41	31	23	21	17	12
	35-39	133	98	125	162	83	63	42	32	23	21	18
	40-44	147	142	104	133	171	87	67	45	33	25	23
	45-49	145	156	150	111	143	184	94	72	48	36	27
	50-54	151	145	161	159	121	155	200	102	78	52	39
	55-59	136	194	182	196	189	140	179	230	118	90	60
	60-64	116	128	196	198	227	220	162	208	268	137	105
	65-69	56	82	101	169	183	198	191	141	181	233	119
	70-74	24	36	51	62	103	97	105	102	75	96	123
	75-79	11	12	18	25	30	44	41	44	43	32	40
	80-84	-	1	3	5	8	9	13	12	13	13	9
	85 plus	3	5	4	4	5	6	7	9	10	10	10
	Total	1464	1486	1476	1466	1440	1336	1208	1083	958	796	609



Appendix G-21: Scenario 3 Labour Force Projections (numbers), Opotiki

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	146	103	63	60	49	52	49	41	31	25	21
	20-24	147	138	98	61	58	46	49	47	39	30	23
	25-29	113	174	163	115	72	69	54	57	55	46	35
	30-34	126	164	252	236	167	104	100	78	83	79	66
	35-39	143	145	189	289	270	191	119	113	89	95	91
	40-44	231	156	158	206	314	294	208	130	123	97	103
	45-49	235	232	157	159	208	317	296	210	130	124	98
	50-54	261	235	233	158	162	211	323	302	214	133	126
	55-59	228	254	229	229	156	159	207	317	296	210	131
	60-64	165	188	219	208	217	147	149	195	298	278	196
	65-69	75	94	121	155	159	158	107	109	142	217	202
	70-74	48	55	59	69	81	73	73	49	50	66	100
	75-79	14	21	29	35	45	50	45	45	30	31	41
	80-84	12	9	10	11	11	12	14	12	12	8	9
	85 plus	-	2	3	5	8	8	9	10	9	9	7
	Total	1944	1970	1983	1996	1977	1891	1802	1715	1601	1448	1249
Male	15-19	142	110	85	72	65	69	66	54	42	33	29
	20-24	230	204	159	122	104	93	99	94	78	60	47
	25-29	150	227	201	158	121	104	92	98	94	78	60
	30-34	124	167	254	225	177	135	116	103	109	105	87
	35-39	134	120	161	245	217	171	131	112	100	106	101
	40-44	177	129	116	156	237	210	164	126	108	96	102
	45-49	179	167	123	111	150	229	203	159	122	104	93
	50-54	243	188	174	127	114	154	234	207	163	125	106
	55-59	234	248	193	179	132	118	159	241	214	168	128
	60-64	204	237	255	202	190	140	126	169	257	228	179
	65-69	118	141	185	222	192	179	132	118	159	241	214
	70-74	64	90	97	121	137	106	99	72	66	88	134
	75-79	24	28	46	56	77	83	64	59	43	40	53
	80-84	20	16	15	20	21	25	27	21	19	14	13
	85 plus	10	11	12	12	15	17	20	22	20	18	14
	Total	2053	2083	2076	2028	1949	1833	1732	1655	1594	1504	1360



Appendix G-22: Scenario 3 Labour Force Projections (numbers), Bay of Plenty

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	4460	3800	3866	3771	3426	3406	3298	3151	3031	2957	2882
	20-24	5759	5135	4453	4547	4476	4057	4031	3910	3750	3622	3541
	25-29	5213	6011	5348	4632	4724	4656	4217	4193	4071	3906	3774
	30-34	5503	5970	6946	6155	5333	5420	5342	4839	4820	4683	4485
	35-39	6074	6351	6908	8077	7153	6227	6354	6268	5696	5685	5533
	40-44	8037	7086	7418	8096	9530	8432	7333	7510	7401	6746	6748
	45-49	8397	8753	7758	8129	8896	10480	9266	8056	8257	8132	7421
	50-54	8602	8793	9199	8191	8595	9415	11105	9808	8525	8738	8599
	55-59	7394	8731	9064	9627	8709	9135	10012	11822	10428	9097	9347
	60-64	5391	7216	8827	9467	10355	9205	9689	10619	12552	11071	9705
	65-69	2580	3903	5926	8012	9364	9815	8714	9233	10098	11803	10472
	70-74	977	1659	2521	3856	5235	5383	5636	4998	5294	5789	6763
	75-79	373	602	959	1388	2063	2422	2474	2586	2283	2422	2655
	80-84	150	141	219	341	474	619	728	735	765	674	713
	85 plus	105	104	94	115	165	213	277	336	363	380	358
	Total	69015	74255	79506	84404	88498	88885	88476	88064	87334	85705	82996
Male	15-19	4707	4171	4145	4069	3683	3659	3533	3356	3212	3119	3032
	20-24	7422	6177	5545	5530	5472	4963	4934	4779	4560	4380	4267
	25-29	6187	7404	6160	5564	5548	5513	4999	4976	4825	4611	4437
	30-34	6086	6583	7901	6596	5993	5977	5971	5408	5393	5240	5017
	35-39	6654	6662	7205	8661	7252	6610	6607	6625	5999	5994	5833
	40-44	7735	7124	7145	7732	9293	7794	7108	7117	7141	6471	6467
	45-49	7836	8092	7477	7522	8163	9820	8250	7527	7541	7578	6860
	50-54	8368	8129	8403	7778	7839	8495	10234	8596	7861	7868	7925
	55-59	7376	8903	8696	9019	8383	8437	9143	11030	9269	8496	8509
	60-64	6203	7660	9456	9467	10022	9273	9356	10139	12240	10286	9465
	65-69	3707	5227	7114	9549	10343	10726	9946	10113	10944	13181	11102
	70-74	1611	2680	3947	5576	7713	7679	7984	7415	7604	8209	9845
	75-79	599	999	1670	2447	3479	4267	4226	4397	4068	4189	4528
	80-84	244	222	359	585	824	1027	1255	1212	1247	1146	1163
	85 plus	131	158	158	197	294	389	494	606	646	661	633
	Total	74866	80191	85381	90292	94301	94629	94040	93296	92550	91429	89083



Appendix G-23: Scenario 4 Labour Force Projections (numbers), Western Bay of Plenty

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	642	538	554	516	497	522	513	480	445	428	420
	20-24	785	641	557	579	563	537	563	555	520	483	463
	25-29	556	860	696	613	667	625	595	624	616	578	535
	30-34	643	770	1185	952	877	900	843	803	842	832	780
	35-39	864	899	1068	1632	1366	1184	1214	1138	1084	1136	1122
	40-44	1290	1195	1219	1425	2193	1740	1502	1541	1442	1375	1442
	45-49	1495	1504	1383	1406	1659	2491	1982	1705	1750	1637	1562
	50-54	1628	1626	1639	1510	1564	1819	2731	2171	1870	1919	1796
	55-59	1494	1765	1771	1791	1701	1722	2004	3008	2391	2061	2114
	60-64	1021	1444	1769	1822	2065	1892	1916	2228	3347	2659	2292
	65-69	539	770	1155	1470	1882	1885	1727	1752	2039	3060	2446
	70-74	237	368	513	760	1209	1201	1204	1102	1117	1300	1951
	75-79	108	183	253	332	586	686	680	681	623	634	736
	80-84	31	46	77	109	185	248	290	287	287	261	267
	85 plus	13	20	26	38	75	93	120	146	158	161	154
	Total	11346	12629	13865	14955	17089	17545	17884	18221	18531	18524	18080
Male	15-19	744	677	658	722	588	617	607	568	527	506	496
	20-24	1011	947	868	842	927	753	789	778	728	676	649
	25-29	769	1019	950	879	848	938	760	796	786	736	683
	30-34	800	906	1203	1122	1039	1002	1108	897	940	928	870
	35-39	1025	954	1083	1436	1340	1240	1196	1322	1071	1123	1108
	40-44	1238	1135	1061	1208	1618	1511	1397	1348	1489	1207	1265
	45-49	1455	1375	1256	1171	1330	1766	1649	1523	1470	1624	1316
	50-54	1647	1567	1484	1359	1271	1442	1917	1789	1656	1597	1766
	55-59	1592	1858	1773	1683	1554	1448	1643	2183	2037	1886	1819
	60-64	1297	1690	2001	1933	1909	1748	1628	1847	2454	2290	2123
	65-69	839	1106	1521	1875	2094	1989	1823	1700	1933	2566	2396
	70-74	392	590	779	1074	1541	1470	1395	1279	1193	1359	1799
	75-79	193	282	401	508	759	895	846	803	739	690	792
	80-84	77	75	115	169	258	337	398	372	352	324	304
	85 plus	39	53	57	73	111	144	187	228	240	234	219
	Total	13118	14234	15210	16054	17187	17300	17343	17433	17615	17746	17605



Appendix G-24: Scenario 4 Labour Force Projections (numbers), Tauranga

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	1833	1725	1916	2008	1860	1871	1862	1861	1883	1905	1903
	20-24	2421	2344	2247	2517	2745	2538	2553	2540	2538	2568	2599
	25-29	2391	2608	2528	2429	2827	2978	2752	2769	2755	2753	2785
	30-34	2447	2749	2992	2889	2903	3209	3385	3126	3145	3129	3126
	35-39	2501	2962	3293	3553	3549	3361	3718	3918	3620	3642	3624
	40-44	3381	2974	3474	3819	4182	3977	3761	4164	4383	4053	4077
	45-49	3424	3717	3243	3767	4180	4443	4225	3996	4425	4657	4306
	50-54	3423	3607	3911	3411	4013	4376	4652	4421	4183	4631	4876
	55-59	2873	3496	3743	4103	3778	4359	4755	5056	4793	4546	5027
	60-64	2161	3020	3746	4068	4906	4274	4929	5375	5720	5420	5142
	65-69	1010	1646	2566	3414	4917	5314	4635	5339	5823	6199	5865
	70-74	343	734	1156	1776	3131	3295	3561	3101	3577	3901	4150
	75-79	116	243	445	652	1302	1559	1635	1769	1531	1771	1930
	80-84	43	47	80	136	248	330	395	412	445	381	446
	85 plus	46	51	47	54	91	120	159	198	222	241	231
	Total	28413	31923	35387	38596	44632	46004	46977	48045	49043	49797	50087
Male	15-19	1822	1759	1876	1911	1834	1846	1837	1835	1857	1880	1877
	20-24	3064	2609	2534	2695	2753	2641	2657	2644	2642	2673	2706
	25-29	2715	3163	2690	2619	2778	2842	2726	2743	2729	2727	2759
	30-34	2808	2969	3460	2934	2870	3038	3113	2984	3003	2988	2986
	35-39	2887	3161	3344	3899	3308	3234	3424	3508	3363	3384	3368
	40-44	3347	3134	3434	3634	4238	3601	3514	3725	3813	3657	3679
	45-49	3264	3488	3276	3600	3836	4474	3803	3709	3933	4025	3860
	50-54	3273	3442	3674	3450	3794	4019	4688	3979	3889	4117	4218
	55-59	2801	3513	3717	3981	3792	4157	4403	5134	4354	4260	4511
	60-64	2384	3038	3863	4135	4628	4352	4771	5055	5898	4995	4896
	65-69	1461	2181	2981	3977	5108	5464	5145	5634	5971	6969	5883
	70-74	588	1121	1705	2365	3923	4164	4455	4193	4593	4867	5679
	75-79	178	346	651	971	1724	2179	2300	2468	2308	2540	2689
	80-84	73	63	105	184	306	385	491	512	550	513	568
	85 plus	40	42	37	46	85	121	158	201	227	246	244
	Total	30705	34029	37347	40401	44977	46517	47485	48324	49130	49841	49923



Appendix G-25: Scenario 4 Labour Force Projections (numbers), Rotorua

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	1212	962	898	796	697	655	592	521	455	406	365
	20-24	1556	1390	1138	1075	1002	873	821	744	654	572	509
	25-29	1452	1603	1430	1170	1155	1027	895	841	762	670	586
	30-34	1498	1652	1799	1584	1330	1238	1101	959	901	817	718
	35-39	1710	1656	1808	1960	1757	1419	1321	1175	1023	961	871
	40-44	1990	1926	1850	2010	2203	1916	1545	1439	1280	1114	1047
	45-49	2096	2274	2189	2096	2289	2462	2137	1727	1607	1431	1244
	50-54	2063	2227	2425	2342	2281	2467	2648	2304	1858	1730	1539
	55-59	1674	2055	2228	2435	2423	2313	2501	2685	2336	1883	1753
	60-64	1298	1564	1954	2145	2514	2418	2307	2496	2678	2331	1879
	65-69	604	905	1188	1572	2168	2352	2261	2159	2334	2506	2180
	70-74	221	389	581	764	1291	1389	1507	1449	1383	1496	1605
	75-79	83	142	228	324	533	653	697	757	729	694	755
	80-84	35	32	49	76	131	155	191	200	218	211	199
	85 plus	36	31	24	26	39	50	62	75	83	91	92
	Total	17528	18808	19789	20375	21813	21386	20587	19531	18300	16912	15341
Male	15-19	1272	1079	1045	965	849	798	722	634	555	494	445
	20-24	1990	1646	1402	1356	1259	1104	1037	939	826	722	643
	25-29	1679	1915	1583	1351	1307	1214	1064	1000	906	796	696
	30-34	1556	1674	1913	1580	1351	1306	1216	1064	1000	906	797
	35-39	1733	1583	1701	1947	1608	1376	1330	1239	1084	1019	923
	40-44	1914	1801	1646	1772	2028	1675	1433	1385	1290	1129	1061
	45-49	1921	1983	1867	1708	1841	2107	1741	1489	1440	1340	1173
	50-54	2040	1872	1940	1831	1690	1823	2085	1724	1473	1424	1325
	55-59	1683	1977	1818	1887	1798	1648	1775	2032	1679	1436	1388
	60-64	1407	1625	1934	1796	1931	1825	1672	1801	2062	1703	1457
	65-69	821	1075	1315	1633	1767	1836	1735	1590	1713	1961	1620
	70-74	365	535	708	877	1293	1195	1243	1173	1075	1160	1326
	75-79	123	212	304	397	587	699	645	672	630	579	628
	80-84	48	43	71	102	157	184	219	201	211	195	180
	85 plus	20	25	24	33	55	71	85	101	103	106	102
	Total	18572	19045	19271	19235	19521	18861	18002	17044	16047	14970	13764



Appendix G-26: Scenario 4 Labour Force Projections (numbers), Whakatane

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	512	427	401	372	315	300	277	248	219	197	178
	20-24	732	623	528	497	480	399	380	351	314	278	249
	25-29	576	750	638	542	531	494	410	391	361	323	286
	30-34	666	651	835	702	609	565	526	437	416	385	344
	35-39	713	716	696	887	760	636	591	549	456	435	402
	40-44	974	740	740	716	923	772	644	599	556	462	440
	45-49	997	907	689	689	680	859	718	599	557	517	430
	50-54	1068	993	895	676	675	650	823	685	574	533	495
	55-59	1015	1064	997	904	698	692	666	844	701	588	546
	60-64	659	974	1058	1019	1024	774	767	738	936	777	652
	65-69	299	510	815	934	1145	1034	781	773	743	944	783
	70-74	109	212	356	568	841	787	710	537	532	512	649
	75-79	42	78	134	211	426	444	413	373	282	280	270
	80-84	25	22	33	53	89	128	133	122	110	83	83
	85 plus	10	11	10	13	25	35	50	58	58	54	45
	Total	8399	8678	8826	8785	9221	8568	7890	7304	6817	6369	5853
Male	15-19	622	467	428	360	317	302	278	249	220	198	179
	20-24	929	670	505	464	391	343	326	302	270	238	214
	25-29	730	895	642	485	446	379	330	314	290	259	229
	30-34	703	745	914	655	495	455	387	337	320	296	265
	35-39	742	746	791	972	696	526	484	412	358	341	315
	40-44	912	788	793	842	1033	741	561	515	438	381	363
	45-49	872	921	799	807	863	1060	760	575	528	449	391
	50-54	1014	913	963	837	849	902	1110	795	602	553	471
	55-59	930	1109	996	1053	918	926	984	1210	867	656	603
	60-64	795	925	1125	1026	1137	988	997	1059	1301	933	705
	65-69	412	588	728	928	999	1060	920	930	987	1211	870
	70-74	178	264	379	471	716	647	687	596	602	639	784
	75-79	70	100	145	203	302	367	330	351	305	308	326
	80-84	26	21	30	44	74	87	107	94	102	87	89
	85 plus	19	21	18	18	23	30	37	45	46	47	44
	Total	8954	9173	9256	9165	9259	8813	8298	7784	7236	6596	5848



Appendix G-27: Scenario 4 Labour Force Projections (numbers), Kawerau

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	115	50	41	28	24	22	18	13	9	6	5
	20-24	118	105	48	40	30	25	23	19	14	9	7
	25-29	125	183	158	69	59	41	34	31	26	19	13
	30-34	123	139	199	170	75	61	42	35	32	27	19
	35-39	143	116	131	191	169	73	60	41	34	31	26
	40-44	171	181	144	160	233	197	86	70	48	40	37
	45-49	150	187	199	160	182	261	221	96	78	54	44
	50-54	159	164	203	216	173	193	276	233	101	83	57
	55-59	110	147	156	196	222	177	197	282	238	103	84
	60-64	87	93	131	142	208	220	174	196	278	236	102
	65-69	53	60	67	95	129	160	169	134	149	214	181
	70-74	19	31	33	36	66	67	83	88	69	78	111
	75-79	10	10	14	13	15	21	21	26	27	21	25
	80-84	4	3	3	4	5	5	7	7	9	9	7
	85 plus	0	0	1	1	2	2	2	2	2	3	3
	Total	1386	1470	1529	1522	1592	1525	1411	1272	1115	932	720
Male	15-19	105	79	53	39	30	27	23	16	11	8	6
	20-24	198	101	77	51	38	29	26	22	16	11	8
	25-29	144	185	94	72	48	36	27	25	20	15	10
	30-34	95	124	160	82	64	43	32	24	22	18	13
	35-39	133	98	125	162	83	63	42	32	23	21	18
	40-44	147	142	105	134	175	89	68	45	34	25	23
	45-49	145	155	150	111	143	184	94	72	48	36	27
	50-54	151	145	159	156	121	155	200	102	78	52	39
	55-59	136	189	174	185	169	125	160	206	106	81	54
	60-64	116	127	191	187	227	220	162	208	268	137	105
	65-69	56	80	95	149	183	198	191	141	181	233	119
	70-74	24	35	48	55	103	97	105	102	75	96	123
	75-79	11	12	17	22	30	44	41	44	43	32	40
	80-84	0	1	2	4	8	9	13	12	13	13	9
	85 plus	3	4	3	2	0	0	0	0	0	0	0
	Total	1464	1477	1453	1411	1422	1319	1184	1051	938	778	594



Appendix G-28: Scenario 4 Labour Force Projections (numbers), Opotiki

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	146	103	63	60	49	52	49	41	31	25	21
	20-24	147	142	103	65	66	52	55	53	44	34	27
	25-29	113	180	173	125	84	80	62	66	64	53	41
	30-34	126	167	261	247	182	114	109	85	90	87	72
	35-39	143	147	194	300	289	204	127	121	96	101	97
	40-44	231	156	158	207	315	295	209	130	124	98	104
	45-49	235	232	157	159	208	317	296	210	130	124	98
	50-54	261	234	233	158	162	211	323	302	214	133	126
	55-59	228	254	230	229	158	161	210	321	300	212	132
	60-64	165	189	218	202	223	151	154	201	307	286	202
	65-69	75	96	121	148	178	176	119	122	159	242	226
	70-74	48	58	64	74	99	90	89	60	61	80	122
	75-79	14	23	30	35	56	62	56	55	37	38	50
	80-84	12	9	10	11	11	12	13	12	12	8	8
	85 plus	0	3	4	5	10	11	12	13	13	12	10
	Total	1947	1993	2018	2025	2090	1988	1884	1792	1681	1534	1337
Male	15-19	142	110	85	72	65	69	66	54	42	33	29
	20-24	230	204	159	122	104	93	99	94	78	60	47
	25-29	150	227	201	158	121	104	92	98	94	78	60
	30-34	124	167	254	225	177	135	116	103	109	105	87
	35-39	134	123	168	260	241	190	146	125	111	118	113
	40-44	177	130	118	159	245	217	170	130	111	99	105
	45-49	179	167	123	110	150	229	203	159	122	104	93
	50-54	243	186	171	125	110	147	224	199	156	120	102
	55-59	234	248	192	179	132	118	159	241	214	168	128
	60-64	204	236	254	199	190	140	126	169	257	228	179
	65-69	118	139	176	201	192	179	132	118	159	241	214
	70-74	64	89	95	115	137	106	99	72	66	88	134
	75-79	24	27	42	48	77	83	64	59	43	40	53
	80-84	20	15	13	17	15	18	19	15	14	10	9
	85 plus	10	11	11	11	15	17	20	22	20	18	14
	Total	2053	2079	2062	2001	1971	1845	1735	1658	1596	1510	1367



Appendix G-29: Scenario 4 Labour Force Projections (numbers), Bay of Plenty

Gender	Age	2013	2018	2023	2028	2033	2038	2043	2048	2053	2058	2063
Female	15-19	4460	3805	3873	3780	3442	3422	3311	3164	3042	2967	2892
	20-24	5759	5245	4621	4773	4886	4424	4395	4262	4084	3944	3854
	25-29	5213	6184	5623	4948	5323	5245	4748	4722	4584	4396	4246
	30-34	5503	6128	7271	6544	5976	6087	6006	5445	5426	5277	5059
	35-39	6074	6496	7190	8523	7890	6877	7031	6942	6313	6306	6142
	40-44	8037	7172	7585	8337	10049	8897	7747	7943	7833	7142	7147
	45-49	8397	8821	7860	8277	9198	10833	9579	8333	8547	8420	7684
	50-54	8602	8851	9306	8313	8868	9716	11453	10116	8800	9029	8889
	55-59	7394	8781	9125	9658	8980	9424	10333	12196	10759	9393	9656
	60-64	5391	7284	8876	9398	10940	9729	10247	11234	13266	11709	10269
	65-69	2580	3987	5912	7633	10419	10921	9692	10279	11247	13165	11681
	70-74	977	1792	2703	3978	6637	6829	7154	6337	6739	7367	8588
	75-79	373	679	1104	1567	2918	3425	3502	3661	3229	3438	3766
	80-84	150	159	252	389	669	878	1029	1040	1081	953	1010
	85 plus	105	116	112	137	242	311	405	492	536	562	535
	Total	69015	75500	81413	86255	96437	97018	96632	96166	95486	94068	91418
Male	15-19	4707	4171	4145	4069	3683	3659	3533	3356	3212	3119	3032
	20-24	7422	6177	5545	5530	5472	4963	4934	4779	4560	4380	4267
	25-29	6187	7404	6160	5564	5548	5513	4999	4976	4825	4611	4437
	30-34	6086	6585	7904	6598	5996	5979	5972	5409	5394	5241	5018
	35-39	6654	6665	7212	8676	7276	6629	6622	6638	6010	6006	5845
	40-44	7735	7130	7157	7749	9337	7834	7143	7148	7175	6498	6496
	45-49	7836	8089	7471	7507	8163	9820	8250	7527	7541	7578	6860
	50-54	8368	8125	8391	7758	7835	8488	10224	8588	7854	7863	7921
	55-59	7376	8894	8670	8968	8363	8422	9124	11006	9257	8487	8503
	60-64	6203	7641	9368	9276	10022	9273	9356	10139	12240	10286	9465
	65-69	3707	5169	6816	8763	10343	10726	9946	10113	10944	13181	11102
	70-74	1611	2634	3714	4957	7713	7679	7984	7415	7604	8209	9845
	75-79	599	979	1560	2149	3479	4267	4226	4397	4068	4189	4528
	80-84	244	218	336	520	818	1020	1247	1206	1242	1142	1159
	85 plus	131	156	150	183	289	383	487	597	636	651	623
	Total	74866	80037	84599	88267	94337	94655	94047	93294	92562	91441	89101



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