

# Tasman District Council and Wards – Population, Household and Dwelling Projections 2018- 2053

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## Preamble

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This report presents population, household and dwelling projections for the Tasman District Council Territorial Local Authority Area (TA), its five Wards and Motueka Township, for the period 2018-2053.

**A detailed methodology** underpins the cohort component population projection method and the development of the underlying assumptions. This methodology was developed in consultation with Tasman District Council and is summarized in Section 1.

**The results** are presented first by way of a detailed explanation for Tasman District and comparison with the most recent projections produced by Statistics New Zealand (2017b) (Section 2), followed by an overview covering Tasman District and its five Wards and Motueka Township (Section 3). Results for each individual Ward and Motueka Township are presented in Section 4), prefaced by a brief explanation only.

**Three sets of projections are provided:** 'high', 'medium' and 'low'. It is conventional to see the medium variant as indicating the most likely scenario; however, the high and low variants should always be kept in mind. Changing economic, political and social circumstances can have an impact on the underlying assumptions regarding births, deaths, and especially migration, and cause trends to fluctuate between the upper and lower bounds.

**When interpreting the results**, it is important to remember that population and dwelling projections are not forecasts in the sense that they incorporate interventions or circumstances that may change the future, especially Council decisions about land use. Rather, they simply indicate what the future population size, structure and dwelling numbers will be if the underlying assumptions regarding births, deaths, migration and population per dwelling ratios prevail.

# 1. Methodology

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The population projections in this Report have been developed via a standard cohort component method, using a modified software programme originally developed by Rowland (2003). This programme reproduces, survives, migrates and 'ages' each base population in a step-wise process, repeating it for each year of the projection period using assumptions regarding future levels and age-specific patterns of fertility, mortality and migration. All assumptions were developed in consultation with Tasman District Council (TDC). Dwelling projections are in turn based on the population projections.

**Geographic boundaries** and related information for the Wards of the Tasman District were provided by TDC; however, all aggregations were undertaken by the author. Stats NZ recently replaced the use of Census Area Units (CAUs) with Statistical Areas (SA2), and it is on the latter basis that all 2018 Census data have thus far been released. The SA1 geographies which will replace the old mesh blocks have not yet been released nor have population data at Ward level. Accordingly, some aggregations used in this Report (see Appendix A) may not totally concur with past aggregations. For example, based on indicative CAU data from TDC, the SA2 of Wakefield has been split respectively 6% and 94% to Lakes-Murchison and Moutere-Waimea, and that of Wakefield Rural, 25% and 75% to the same Wards. The township of Motueka was taken to be comprised of the three SA2s Motueka North, Motueka West and Motueka East.

**The base population** for each projection is a customised Estimated Resident Population (ERP) for June 2018, by sex and 5-year age group, based on the above geographies. Each customised ERP was developed by applying, separately by age and sex, the ratio of the Estimated Resident Population (ERP) for June 2013 to the Census Usually Resident Population (CURP) for March 2013, to the March 2018 Census Usually Resident Population. In this manner the 2018 CURP for each age/sex group was advanced to reflect the difference between ERP and CURP at the previous Census. This approach was taken because the 2013 ERP/CURP ratio was, with just two exceptions (Motueka Ward and Township), somewhat higher than its 2018 counterpart<sup>2</sup>, while migration appears to have been stronger over the latter period. The resulting numbers for Tasman District are given at Table 1.1 below and presented for each Ward and Motueka Township in Appendix B.

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<sup>2</sup> The 2018 ERP produced by Statistics New Zealand in October 2019 remains based on the 2013 Census. The above methodology incorporates the 2018 CURP into the 2018 ERP.



**Reproducing the population** involves the application of age-specific fertility rates for women aged 15-49 years to the relevant numbers of women at each age, weighted by each future assumed total fertility rate (TFR<sup>3</sup>). The resulting number of births is summed and apportioned to males and females according to the sex ratio at birth: 105.5 males per 100 females.

The age-specific fertility rate assumptions for Tasman District, all Wards, and Motueka Township are based on the observed distribution for Tasman District in 2018 (Figure 1.1), because these rates are not available below TA level. Similarly, the TFR assumptions for 2018-2043 are those for Tasman District, drawn directly from Statistics New Zealand (2017), with the TFR for 2048-2053 held constant at the 2043 rate (Table 1.2).

**Surviving the population:** Each five-year age group is survived to the next five-year age group by applying the probability of surviving from one age group to the next, separately by sex. The probability of surviving is drawn initially from the 'Life Table', a tool via which life expectancy is calculated for each sex by age. Sub-routines in the modified Rowland projection software calculate and raise life expectancy over the projection period in accordance with pre-determined life expectancies entered as beginning, mid- and end points of the projection. The assumptions for Tasman District, its Wards and Motueka Township are all based on Statistics New Zealand's assumptions for Tasman District<sup>4</sup> to 2043 (2017b) and prorated values for 2048. These values are given in Table 1.3.

**Migrating the population** involves the estimation and stepwise application of age- and sex-specific migration rates<sup>5</sup> to the reproduced and survived population, separately by age and sex. Separate rates are developed for Tasman District, each Ward and Motueka Township, via a 'residual migration methodology' using a standard cohort component technique. Estimated Resident Population numbers by age and sex at the 2006 and 2013 censuses are reproduced and survived to the subsequent census (thus 2013 and 2018)<sup>6</sup> in the absence of migration. The resulting 'expected' population by

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<sup>3</sup> The TFR is the average number of births a woman would have across her lifetime if she was to experience each of the age specific rates occurring in that particular year—it is thus a 'synthetic period rate' used as a proxy for average family size, because completed family size can only be calculated for women who have reached age 50.

<sup>4</sup> Again, data for Tasman are used because they are not available at lower geographic scales.

<sup>5</sup> The approach of developing and using age-specific migration rates differs from the methodology employed by Statistics New Zealand, which instead applies a pre-determined number of migrants to the migration age distribution. Because populations typically increase or decrease over time, that approach results in the *number* of migrants becoming respectively smaller or larger as a proportion of the changing population and can be pronounced where population size is small. By instead applying age-specific migration *rates* to each successively survived population number by age and sex, the number of migrants is automatically generated and keeps pace with the unfolding increase or decrease in the population.

<sup>6</sup> Data for the seven-year period 2006-13 was adjusted for cohort ageing and annualised.

age and sex for each year is then compared with the 'observed' population for that year, and the difference by age and sex taken to approximate the net migration age profile (Figures 1.2 and 1.3). Similar data generated by Statistics New Zealand at TA level indicates that the method is highly robust.

The average of the rates for the 2006-13 and 2013-18 periods was selected as the medium variant assumption. The high and low assumptions were set by respectively adding and subtracting 20 per cent separately for each age-sex group (see Table 1.4 for Tasman District and Table 1.5 for Tasman's Wards and Motueka Township).

**The resulting population is then 'aged'** by apportioning births generated for the previous five year period to age 0-4 years, separately for males and females, and ageing each age group by five years, those aged 0-4 years becoming the new cohort at 5-9 years of age at t+5 years. Resulting numbers for the upper age groups (here 80-84 and 85+ years) are summed to give the new population at 85+ years.

**Constraining:** Raw output (population numbers, migration, and natural increase) for Wards and Motueka Township are constrained to the output for Tasman District, by calculating population share for each element and prorating the total.

**Household numbers** are projected via a three-step process.

**First**, an approximation of average household size<sup>7</sup> was calculated for each area by dividing the census usually resident population (CURP) (Stats NZ 2019a) by the number of occupied dwellings (on census night), for 2006, 2013 and 2018 (Stats NZ 2019d). Table 1.6 gives the resulting values for Tasman District as, respectively, 2.6, 2.5 and 2.7 (usual residents per occupied household). The decline in this index between 2006 and 2013 is consistent with population ageing<sup>8</sup>, but the increase between 2013 and 2018 is anomalous. The latter is likely to be the result of lower data quality for occupancy status at the 2018 census.<sup>9</sup> Accordingly, average household size for 2013 has been used as the base assumption for 2018.

**Second**, the ratio for each area was prorated for the period 2018-2053 following the pattern indicated by Stats NZ's (2014) projected average household size for Tasman District to 2038. These assumptions are that the ratio for Tasman District will

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<sup>7</sup> Average household size conventionally refers to 'the mean number of people per family. It is calculated by dividing the number of people in families by the number of families' (Stats NZ 2014).

<sup>8</sup> Declining birth rates result in fewer children in each family and more people living as couples without children, while increasing longevity results in more people living alone.

<sup>9</sup> While dwelling counts are considered by Stats NZ to be of high quality, occupancy status was not rated.

decline from 2.4 persons per household in 2018 to 2.2 by 2038 under the medium and low variants, and to 2.3 under the high variant, along the lines expected with population ageing.

**Third**, the projected prorated ratio for each area (Table 1.7) was applied to projected population numbers.

**Dwelling numbers** are projected via a similar three-step process.

**First**, the ratio of estimated resident population (ERP) (Table 1.1 and Appendix B) to total dwellings (Stats NZ 2019d) was calculated for each area, for 2006, 2013 and 2018. For Tasman District this ratio remained constant (2.3) between 2006 and 2018, whilst it increased between 2013 and 2018 for Motueka Ward and Motueka Township only. To maintain consistency between Wards, and because total dwelling counts are considered by Stats NZ to be of high quality, the ratio for 2018 has been used as the base assumption.

**Second**, the ratio for each area was prorated for the period 2018-2053 following the pattern indicated by Stats NZ (2014 and 2017b) for Tasman District to 2038. These assumptions are that the ratio for Tasman District will decline from 2.5 persons per dwelling in 2018 to 2.3 by 2038 under the medium and low variants, and to 2.4 under the high variant, along the lines expected with population ageing. These ratios are then held constant to 2053.

**Third**, the projected prorated ratio for each area (Table 1.8) was applied to projected population numbers

A projected increase in dwelling numbers signifies that additional dwellings will be required to maintain the stated ratio, while a projected decline in dwelling numbers signifies that fewer dwellings will required to maintain that ratio (not that there will be fewer dwellings *per se*). However, the differing proportions of occupied and unoccupied dwellings in each geographic area should be kept in mind (Table 1.9). For example, at the 2018 Census, Golden Bay and Lakes-Murchison had respectively 31 and 25 per cent of dwellings unoccupied, with similar proportions in 2006 and 2013 (Stats NZ 2019d).

These sub-regional disparities along with various other factors related to urban or rural living have implications for the **ratio of household numbers** (Table 1.7) **to dwelling numbers** (Table 1.8). In 2018, the ratio for Tasman District was 0.93 (households per dwelling), and this is projected to rise to between 0.94 (medium variant) and 0.97 (high and low variants) in 2053, indicating that dwelling numbers will continue to exceed

household numbers. However, at sub-regional level, the proportions are affected by the differing levels of unoccupied dwellings and other residential characteristics, and in a few cases result in household numbers exceeding dwelling numbers (Section 4).

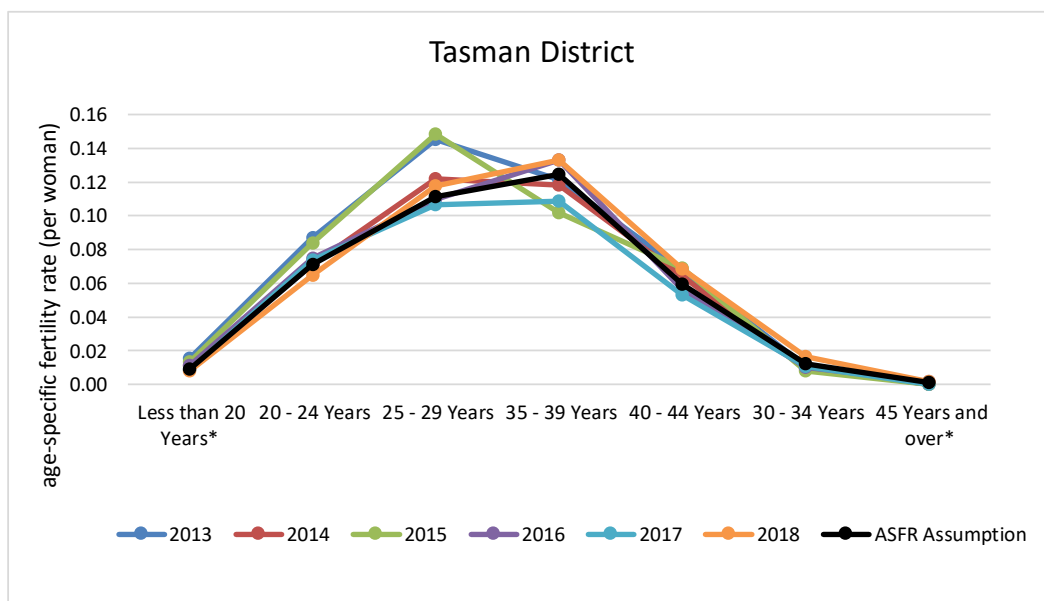
Table 1-1: Tasman District, Base Population by Age and Sex (Customised ERP June 2018).

	Male	Female	TOTAL
0-4	1385	1252	2638
5-9	1749	1639	3388
10-14	1907	1909	3816
15-19	1733	1622	3355
20-24	1382	974	2356
25-29	1281	1191	2473
30-34	1201	1303	2503
35-39	1263	1381	2644
40-44	1555	1739	3294
45-49	2011	2179	4191
50-54	2035	2143	4178
55-59	1999	2224	4224
60-64	1992	1972	3965
65-69	1941	1988	3929
70-74	1589	1465	3055
75-79	1029	1041	2069
80-84	589	643	1232
85+	425	588	1013
<b>TOTAL (Summed)</b>	<b>27067</b>	<b>27256</b>	<b>54323</b>
Compared with CURP*	104.0	103.4	103.7
Compared with ERP**	101.4	100.2	100.6

\*Stats NZ 2019a

\*\*Stats NZ 2019b

Figure 1-1: Age-specific birth rates per woman by five-year age group, Tasman District, selected years 2013-2018 and ASFR Assumption



Source: Author/Statistics New Zealand 2019c Customised Database

Table 1-2: Tasman District, total fertility rate assumptions by projection variant 2013-2048\*

Five year period	Low	Medium	High
2018-	1.93	2.00	2.07
2023-	1.88	1.98	2.09
2028-	1.81	1.96	2.11
2033-	1.76	1.94	2.12
2038-	1.74	1.93	2.12
2043-	1.74	1.93	2.12
2048-*	1.74	1.93	2.12

Source: Statistics New Zealand 2017a

\*Held constant at 2043 assumption

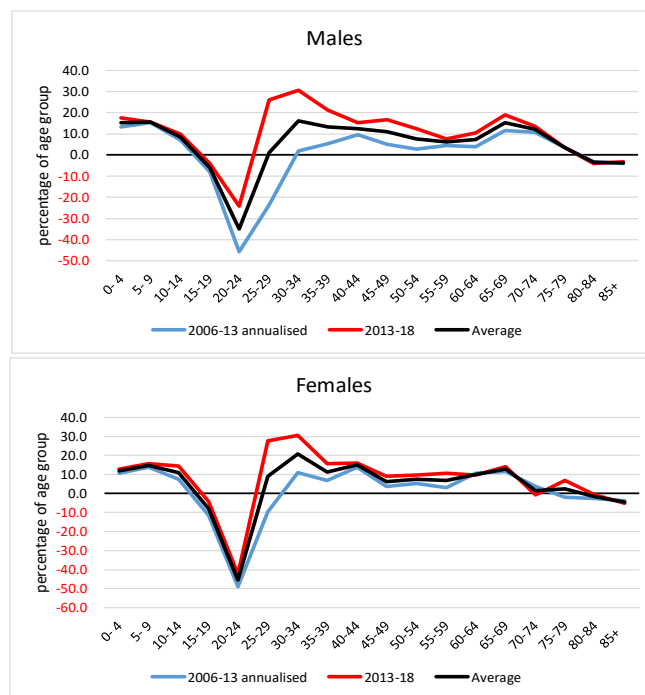
Table 1-3: Tasman District, life expectancy assumptions by projection variant 2018-2048\* and Sex

Five year period	Low		Medium		High	
	Males	Females	Males	Females	Males	Females
2018-	81.1	84.5	81.6	85.0	82.0	85.4
2023-	82.0	85.3	82.7	86.0	83.3	86.5
2028-	82.8	86.1	83.8	87.0	84.6	87.7
2033-	83.6	86.9	84.8	87.9	85.8	88.8
2038-	84.4	87.5	85.8	88.7	86.9	89.7
2043-	84.9	88.0	86.6	89.4	87.9	90.6
2048-*	85.7	88.6	87.4	90.0	88.7	91.2

Source: Statistics New Zealand 2017a

\*Prorated (compared to % relationship with national assumption in 2043)

Figure 1-2: Tasman District, observed migration by sex and age (%), 2006-13 and 2013-18\*



Source: Author \*Based on Customised June 2018 ERP as described in methodology

Table 1-4: Tasman District, net migration assumptions by projection variant, sex and age (%)

	LOW*		MEDIUM*		HIGH*	
	Males	Females	Males	Females	Males	Females
0- 4	12.3	9.4	15.4	11.8	18.5	14.1
5- 9	12.4	11.8	15.5	14.7	18.6	17.7
10-14	6.7	8.7	8.4	10.8	10.1	13.0
15-19	-7.2	-9.4	-6.0	-7.9	-4.8	-6.3
20-24	-41.8	-54.7	-34.8	-45.6	-27.8	-36.5
25-29	1.0	7.3	1.2	9.1	1.4	10.9
30-34	13.0	16.6	16.3	20.7	19.5	24.9
35-39	10.7	9.0	13.4	11.3	16.0	13.5
40-44	10.0	12.0	12.5	15.0	15.0	18.0
45-49	8.7	5.1	10.9	6.3	13.1	7.6
50-54	6.1	5.9	7.7	7.4	9.2	8.9
55-59	4.9	5.5	6.1	6.8	7.3	8.2
60-64	5.8	8.0	7.3	10.0	8.7	12.0
65-69	12.2	10.3	15.3	12.8	18.3	15.4
70-74	9.7	1.1	12.2	1.4	14.6	1.6
75-79	3.0	1.9	3.7	2.4	4.5	2.9
80-84	-4.3	-2.1	-3.5	-1.7	-2.8	-1.4
85+	-4.3	-5.4	-3.6	-4.5	-2.9	-3.6
<b>Total</b>	<b>5.5</b>	<b>5.2</b>	<b>6.9</b>	<b>6.5</b>	<b>8.2</b>	<b>7.8</b>

Notes\* Low = Medium - 20%

Medium = Average  
 2006-13 and 2013-18

High = Medium + 20%

Figure 1-3: Tasman District Wards and Motueka Township, observed migration by sex and age (% at each age), 2006-13 and 2013-18\*

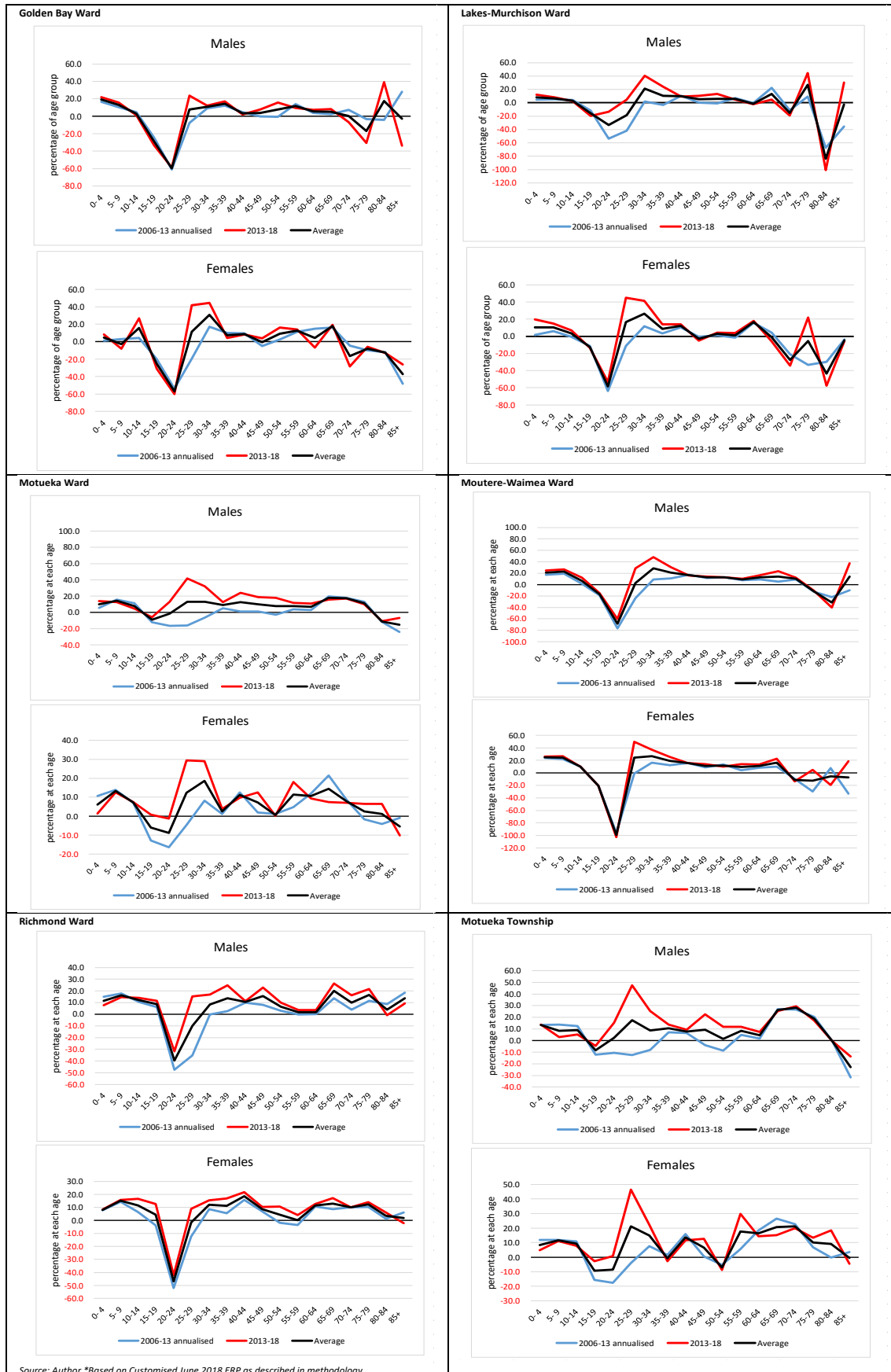






Table 1-6: Ratio of census usually resident population to occupied dwellings (as proxy for average household size), Tasman District, Wards and Motueka Township, 2006, 2013 and 2018

	2006	2013	2018
Golden Bay Ward	2.3	<b>2.2</b>	2.4
Lakes-Murchison Ward	2.6	<b>2.4</b>	2.5
Motueka Ward	2.5	<b>2.4</b>	2.7
Moutere-Waimea Ward	2.7	<b>2.7</b>	2.7
Richmond Ward	2.7	<b>2.6</b>	2.7
<b>Tasman District</b>	<b>2.6</b>	<b>2.5</b>	<b>2.7</b>
Motueka Township	2.5	<b>2.4</b>	2.7

Source: Stats NZ (2019d)

Table 1-7: Projected ratio of census usually resident population to occupied dwellings (as proxy for average household size), 2018-2053, Tasman District, Wards and Motueka Township

	Golden Bay	Lakes-Murchison	Motueka	Moutere-Waimea	Richmond	Tasman	Motueka Township
<b>Medium</b>							
2018	2.2	2.4	2.4	2.7	2.6	<b>2.5</b>	2.4
2023	2.2	2.4	2.4	2.7	2.6	<b>2.5</b>	2.4
2028	2.1	2.3	2.3	2.6	2.5	<b>2.4</b>	2.3
2033	2.1	2.3	2.3	2.6	2.5	<b>2.4</b>	2.3
<b>2038</b>	<b>2.1</b>	<b>2.2</b>	<b>2.2</b>	<b>2.5</b>	<b>2.4</b>	<b>2.3</b>	<b>2.2</b>
2043	2.1	2.2	2.2	2.5	2.4	<b>2.3</b>	2.2
2048	2.0	2.1	2.1	2.3	2.3	<b>2.2</b>	2.1
2053	2.0	2.1	2.1	2.3	2.3	<b>2.2</b>	2.1
<b>Change (%)</b>	<b>-12.5</b>	<b>-12.5</b>	<b>-12.5</b>	<b>-12.5</b>	<b>-12.5</b>	<b>-12.5</b>	<b>-12.5</b>
Change (%) by 2038*	-8.3	-8.3	-8.3	-8.3	-8.3	<b>-8.3</b>	-8.3
<b>High</b>							
2018	2.2	2.4	2.4	2.7	2.6	<b>2.5</b>	2.4
2023	2.2	2.4	2.4	2.7	2.6	<b>2.5</b>	2.4
2028	2.1	2.3	2.3	2.6	2.5	<b>2.4</b>	2.3
2033	2.1	2.3	2.3	2.6	2.5	<b>2.4</b>	2.3
<b>2038</b>	<b>2.1</b>	<b>2.3</b>	<b>2.3</b>	<b>2.6</b>	<b>2.5</b>	<b>2.4</b>	<b>2.3</b>
2043	2.1	2.2	2.2	2.5	2.4	<b>2.3</b>	2.2
2048	2.1	2.2	2.2	2.5	2.4	<b>2.3</b>	2.2
2053	2.0	2.1	2.1	2.3	2.3	<b>2.2</b>	2.1
<b>Change (%)</b>	<b>-12.5</b>	<b>-12.5</b>	<b>-12.5</b>	<b>-12.5</b>	<b>-12.5</b>	<b>-12.5</b>	<b>-12.5</b>
Change (%) by 2038*	-4.2	-4.2	-4.2	-4.2	-4.2	<b>-4.2</b>	-4.2
<b>Low</b>							
2018	2.2	2.4	2.4	2.7	2.6	<b>2.5</b>	2.4
2023	2.2	2.4	2.4	2.7	2.6	<b>2.5</b>	2.4
2028	2.1	2.3	2.3	2.6	2.5	<b>2.4</b>	2.3
2033	2.1	2.2	2.2	2.5	2.4	<b>2.3</b>	2.2
<b>2038</b>	<b>2.1</b>	<b>2.2</b>	<b>2.2</b>	<b>2.5</b>	<b>2.4</b>	<b>2.3</b>	<b>2.2</b>
2043	2.0	2.1	2.1	2.3	2.3	<b>2.2</b>	2.1
2048	2.0	2.1	2.1	2.3	2.3	<b>2.2</b>	2.1
2053	1.9	2.0	2.0	2.2	2.2	<b>2.1</b>	2.0
<b>Change (%)</b>	<b>-16.5</b>	<b>-16.5</b>	<b>-16.5</b>	<b>-16.5</b>	<b>-16.5</b>	<b>-16.5</b>	<b>-16.5</b>
Change (%) by 2038*	-8.3	-8.3	-8.3	-8.3	-8.3	<b>-8.3</b>	-8.3

Notes: \* following the pattern indicated by Stats NZ 2014

Table 1-8: Projected ratio of estimated resident population to total dwelling counts for Tasman District, Wards and Motueka Township, 2018-2053

	Golden Bay	Lakes- Murchison	Motueka	Moutere- Waimea	Richmond	Tasman	Motueka Township
<b>Medium</b>							
2018	1.7	1.9	2.3	2.6	2.6	<b>2.3</b>	2.5
2023	1.6	1.9	2.3	2.6	2.6	<b>2.3</b>	2.5
2028	1.6	1.9	2.2	2.5	2.6	<b>2.3</b>	2.4
2033	1.6	1.8	2.2	2.5	2.5	<b>2.2</b>	2.4
<b>2038</b>	<b>1.6</b>	<b>1.8</b>	<b>2.1</b>	<b>2.4</b>	<b>2.5</b>	<b>2.2</b>	<b>2.4</b>
2043	1.5	1.8	2.1	2.4	2.4	<b>2.2</b>	2.3
2048	1.5	1.7	2.1	2.4	2.4	<b>2.1</b>	2.3
2053	1.5	1.7	2.0	2.3	2.3	<b>2.1</b>	2.2
<b>Change (%)</b>	<b>-10.8</b>	<b>-10.8</b>	<b>-10.8</b>	<b>-10.8</b>	<b>-10.8</b>	<b>-10.8</b>	<b>-10.8</b>
Change (%) by 2038*	-6.2	-6.2	-6.2	-6.2	-6.2	<b>-6.2</b>	-6.2
<b>High</b>							
2018	1.7	1.9	2.3	2.6	2.6	<b>2.3</b>	2.5
2023	1.7	1.9	2.3	2.6	2.6	<b>2.3</b>	2.5
2028	1.6	1.9	2.2	2.6	2.6	<b>2.3</b>	2.5
2033	1.6	1.9	2.2	2.5	2.5	<b>2.3</b>	2.4
<b>2038</b>	<b>1.6</b>	<b>1.8</b>	<b>2.2</b>	<b>2.5</b>	<b>2.5</b>	<b>2.2</b>	<b>2.4</b>
2043	1.6	1.8	2.2	2.5	2.5	<b>2.2</b>	2.4
2048	1.6	1.8	2.1	2.4	2.5	<b>2.2</b>	2.3
2053	1.5	1.8	2.1	2.4	2.4	<b>2.2</b>	2.3
<b>Change (%)</b>	<b>-7.9</b>	<b>-7.9</b>	<b>-7.9</b>	<b>-7.9</b>	<b>-7.9</b>	<b>-7.9</b>	<b>-7.9</b>
Change (%) by 2038*	-4.5	-4.5	-4.5	-4.5	-4.5	<b>-4.5</b>	-4.5
<b>Low</b>							
2018	1.7	1.9	2.3	2.6	2.6	<b>2.3</b>	2.5
2023	1.6	1.9	2.2	2.6	2.6	<b>2.3</b>	2.5
2028	1.6	1.8	2.2	2.5	2.5	<b>2.3</b>	2.4
2033	1.6	1.8	2.2	2.5	2.5	<b>2.2</b>	2.4
<b>2038</b>	<b>1.5</b>	<b>1.8</b>	<b>2.1</b>	<b>2.4</b>	<b>2.4</b>	<b>2.2</b>	<b>2.3</b>
2043	1.5	1.7	2.1	2.4	2.4	<b>2.1</b>	2.3
2048	1.5	1.7	2.0	2.3	2.3	<b>2.1</b>	2.2
2053	1.5	1.7	2.0	2.3	2.3	<b>2.0</b>	2.2
<b>Change (%)</b>	<b>-12.7</b>	<b>-12.7</b>	<b>-12.7</b>	<b>-12.7</b>	<b>-12.7</b>	<b>-12.7</b>	<b>-12.7</b>
Change (%) by 2038*	-7.3	-7.3	-7.3	-7.3	-7.3	<b>-7.3</b>	-7.3

Notes: \* following the pattern indicated by Stats NZ 2014 and 2017b

Table 1-9: Private and non-private dwelling counts and % distribution for Tasman District, Wards and Motueka Township, by occupancy status, 2006, 2013 and 2018.

	Total Dwellings			Occupied Dwellings			Not Occupied Dwellings			Under Construction		
	2006	2013	2018	2006	2013	2018	2006	2013	2018	2006	2013	2018
Golden Bay	2880	3090	3222	2073	2226	2178	774	840	1014	30	21	30
Lakes-Murchison	1717	1839	1951	1270	1371	1444	433	456	491	13	9	15
Motueka	5016	5382	5688	4323	4599	4668	654	738	990	45	51	30
Moutere-Waimea	4613	5088	5690	4202	4674	5231	371	369	421	44	45	36
Richmond	5718	6054	6588	5391	5730	6243	288	282	309	33	30	33
<b>Tasman</b>	19962	21456	23139	17268	18597	19770	2535	2700	3231	159	156	138
<b>Tasman (Wards Summed)</b>	19944	21453	23139	17259	18600	19764	2520	2685	3225	165	156	144
Motueka Town	2853	3144	3297	2658	2913	2997	177	198	279	21	30	21
Golden Bay	...	...	...	72.0	72.0	67.6	26.9	27.2	31.5	1.04	0.68	0.93
Lakes-Murchison	...	...	...	74.0	74.6	74.0	25.2	24.8	25.2	0.77	0.51	0.77
Motueka	...	...	...	86.2	85.5	82.1	13.0	13.7	17.4	0.90	0.95	0.53
Moutere-Waimea	...	...	...	91.1	91.9	91.9	8.0	7.3	7.4	0.95	0.88	0.63
Richmond	...	...	...	94.3	94.6	94.8	5.0	4.7	4.7	0.58	0.50	0.50
<b>Tasman</b>	...	...	...	<b>86.5</b>	<b>86.7</b>	<b>85.4</b>	<b>12.7</b>	<b>12.6</b>	<b>14.0</b>	<b>0.80</b>	<b>0.73</b>	<b>0.60</b>
<b>Tasman (Summed)</b>	...	...	...	<b>86.5</b>	<b>86.7</b>	<b>85.4</b>	<b>12.6</b>	<b>12.5</b>	<b>13.9</b>	<b>0.83</b>	<b>0.73</b>	<b>0.62</b>
Motueka Town	...	...	...	93.2	92.7	90.9	6.2	6.3	8.5	0.74	0.95	0.64

Source: Stats NZ (2019d) The total dwelling count is rated as high quality. Dwelling occupancy status did not receive a quality rating in 2018.

## 2. Results – Tasman District

Figure 2.1 provides an overview of the projection results for Tasman District (see also Table 2.1 and Appendix C). Under the medium variant the population of the Tasman District is projected to increase from its estimated base of 54,383 in 2018 to 76,829 in 2053 (+41.4 per cent). Projected numbers under the high variant reach 94,436 in 2053 (+73.8 per cent). Under the low variant, numbers reach 61,915 in 2053 (+14 per cent).

- **The medium migration assumptions** equate to the average of observed migration by age and sex for the periods 2006-2013 and 2013-2018
- **The high migration assumptions** equate to the medium migration assumption plus 20% applied separately to each age/sex group
- **The low migration assumptions** equate to the medium migration assumption minus 20% applied separately to each age/sex group
- **All three variants use approximately the same fertility and mortality assumptions as Statistics New Zealand (2017a)**

Figure 2-1: Projected population of the Tasman District by projection variant

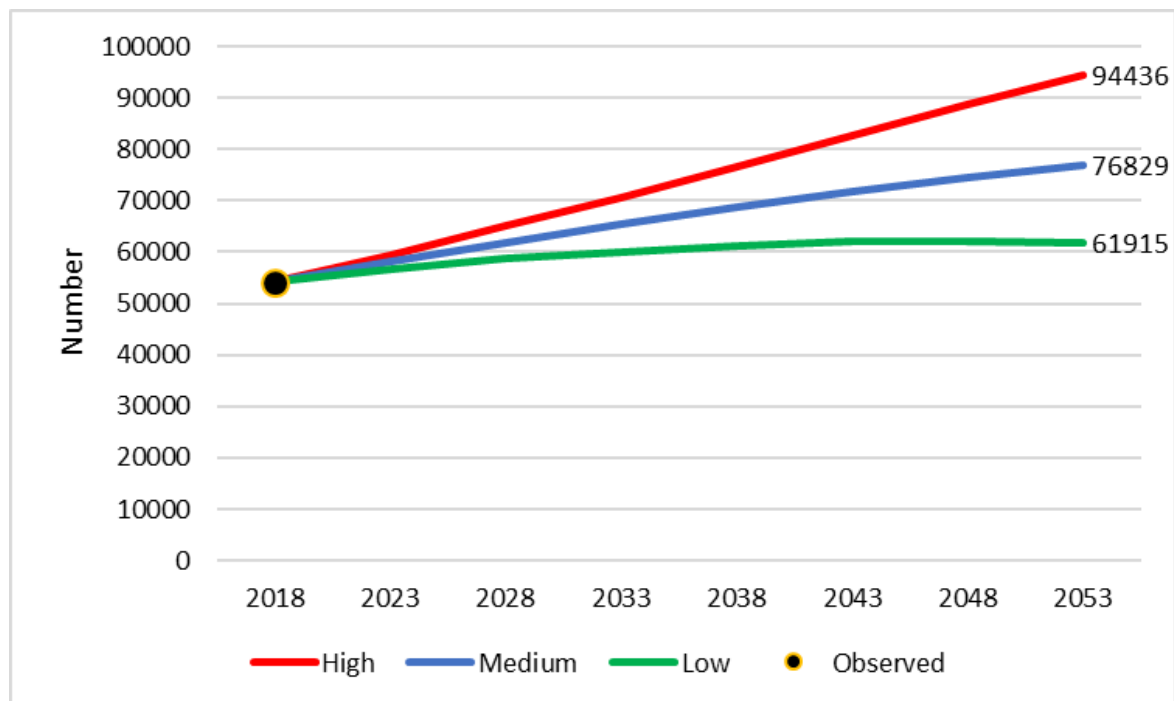


Table 2-1: Observed (1996-2018) and projected population of the Tasman District 2018-2053 (numbers and growth rates) by projection variant

	1996	2001	2006	2013	2018	2023	2028	2033	2038	2043	2048	2053	Total Change 2018-2053 (%)
<b>Number</b>													
High					54323	59498	64964	70691	76654	82742	88618	94436	73.8
Medium					54323	58090	61794	65312	68676	71839	74501	76829	41.4
Low					54323	56642	58651	60114	61206	61949	62124	61915	14.0
Observed ERP*	38800	42400	45800	48800	54000								
<b>Annual average growth</b>													
High						1.9	1.8	1.8	1.7	1.6	1.4	1.3	...
Medium						1.4	1.3	1.1	1.0	0.9	0.7	0.6	...
Low						0.9	0.7	0.5	0.4	0.2	0.1	-0.1	...
Observed ERP		1.9	1.6	0.9	2.1								

\*Stats NZ 2019b

As shown on Figure 2.2, the projections result in relatively modest annual average growth rates when compared with those for the 2013-18 period. However, it would be irresponsible to raise these on the assumption that growth would continue at its 2013-18 level unabated. The projection methodology results in substantially higher net migration numbers than imposed by Statistics New Zealand (Appendix D). Growth rates are also likely to decline over time as structural population ageing increases. The rates for the medium variant projection align well with average growth over the 2006-2018 period.

Figure 2-2: Observed (1996-2018) and projected average annual growth rates for the Tasman District 2018-2053 by projection variant

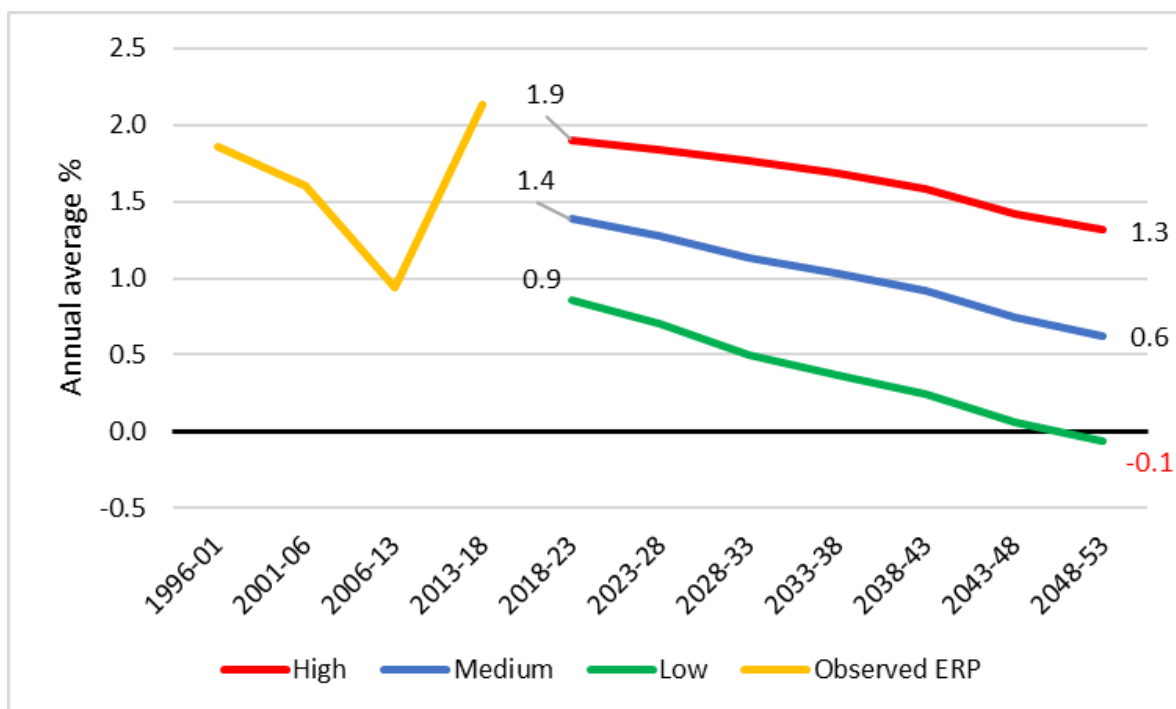
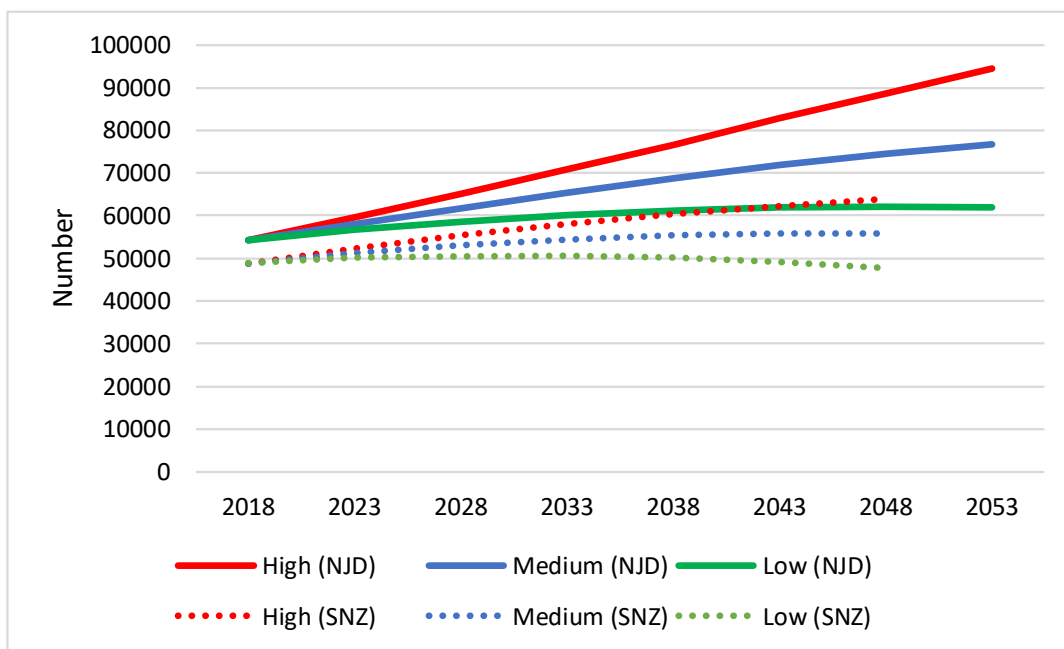


Figure 2.3 compares projected numbers with those developed by Statistics New Zealand (2017b) (NJD = Natalie Jackson Demographics). Under all three variants, NJD projections are substantially higher than those projected by Statistics New Zealand, primarily because of the latter's somewhat lower migration assumptions<sup>10</sup> (see also Appendix D). As explained above, the NJD fertility and survivorship assumptions are essentially the same as those used by Statistics New Zealand. However, the higher migration assumptions result in more births and thus sustain natural increase and its contribution to growth for slightly longer than the Stats NZ projections (see Appendix E).

Figure 2-3: Projected population of the Tasman District 2018-2053 and comparison with Statistics New Zealand projections 2013-2043, by projection variant



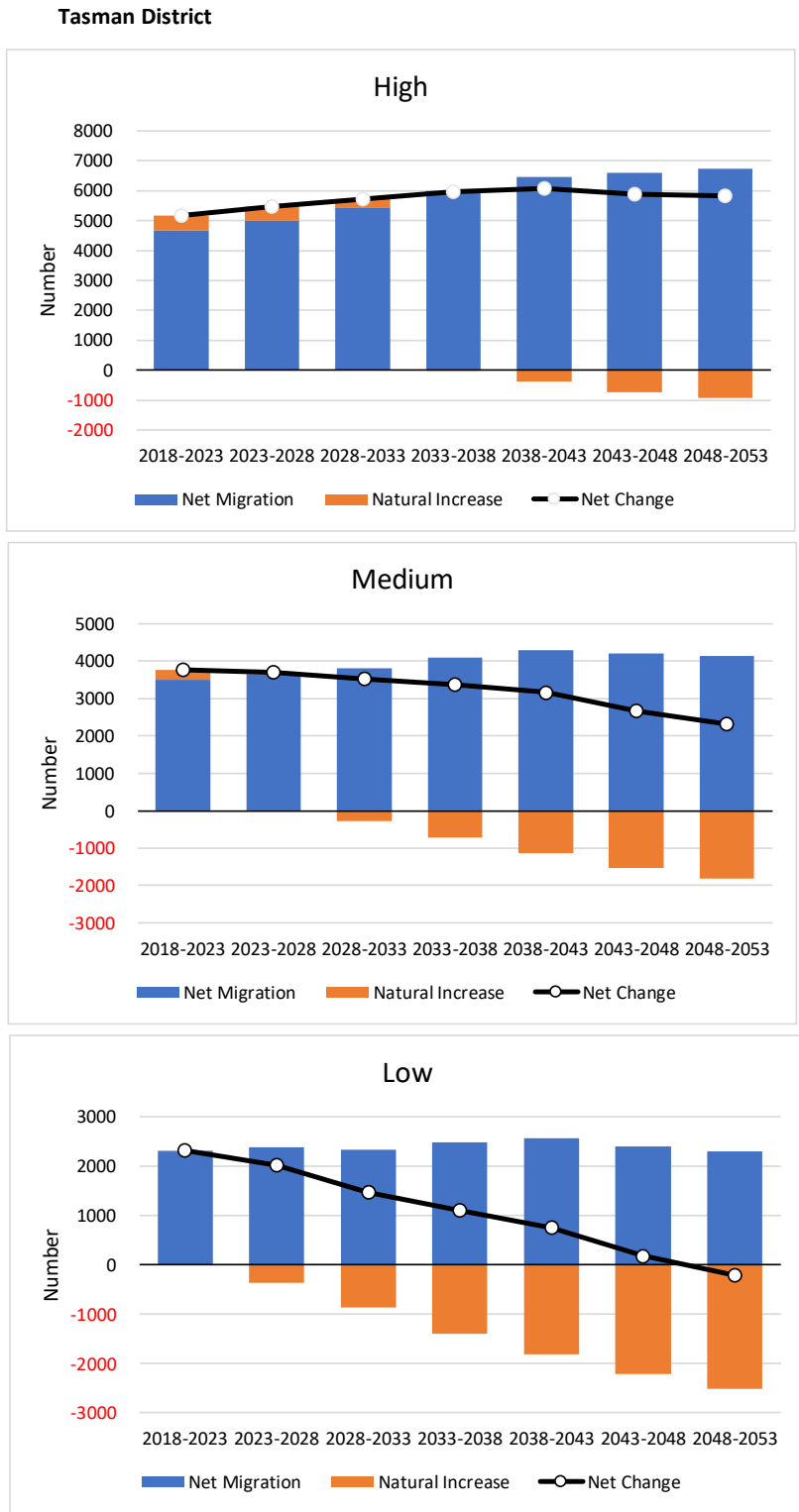
SNZ = Stats NZ 2017b

Figure 2.4 and Table 2.2 provide an overview of the relative contributions of net migration and natural increase to Tasman's projected growth. Net migration is the major contributor to the district's growth under all three variants, and increasingly offsets negative natural increase. Even under the high variant, natural increase becomes negative between 2033 and 2038. This situation accords with that projected for a large proportion of New Zealand's TAs, around 40 per cent of which are projected to be

<sup>10</sup> Statistics New Zealand's (2017a) migration assumptions for Tasman District are as follows: High: 2013-18, +3,000, thereafter +2,500 per five-year period; Medium: 2013-18, +2,000, thereafter +1,500 per five years; Low: 2013-18, +1,000, thereafter +500 per five years.

experiencing natural decrease within the next two decades (Jackson and Cameron 2018). The shift reflects high proportions at older ages (see below).

Figure 2-4: Projected components of change (numbers per five year period) by projection variant, Tasman District



Note different scales on Y-axis

Table 2-2: Projected components of change (numbers per five year period), and contribution of each component (%) by projection variant, Tasman District

Tasman District					
Period	Net Migration	Natural Increase	Net Change	Cont. of Migration (%)	Cont. of Natural Increase (%)
<b>High</b>					
2018-2023	4685	490	5175	90.5	9.5
2023-2028	5007	459	5466	91.6	8.4
2028-2033	5440	287	5727	95.0	5.0
2033-2038	5994	-31	5963	100.5	-0.5
2038-2043	6469	-381	6088	106.3	-6.3
2043-2048	6601	-726	5875	112.4	-12.4
2048-2053	6747	-929	5818	116.0	-16.0
<b>Medium</b>					
2018-2023	3494	273	3767	92.7	7.3
2023-2028	3647	58	3704	98.4	1.6
2028-2033	3803	-285	3518	108.1	-8.1
2033-2038	4087	-724	3364	121.5	-21.5
2038-2043	4298	-1135	3163	135.9	-35.9
2043-2048	4196	-1535	2662	157.7	-57.7
2048-2053	4144	-1816	2328	178.0	-78.0
<b>Low</b>					
2018-2023	2303	16	2319	99.3	0.7
2023-2028	2378	-369	2009	118.4	-18.4
2028-2033	2330	-867	1463	159.3	-59.3
2033-2038	2486	-1394	1092	227.7	-127.7
2038-2043	2569	-1825	743	345.6	-245.6
2043-2048	2400	-2225	175	1370.9	-1270.9
2048-2053	2302	-2511	-209	1100.8	-1200.8

Projected numbers by broad age group are given on Table 2.3, along with key ageing indices (see Appendix F1 for numbers by five-year age group). At 20.8 per cent in 2018, the population of the Tasman District is already one of New Zealand's oldest, ranking 14<sup>th</sup> oldest of 67 TAs in 2018 (Author/Stats NZ 2017b). For comparison those aged 65+ years account for around 15 per cent of the national population, while Stats NZs (2017b) projections indicate that by 2043 Tasman District would become New Zealand's 2<sup>nd</sup> oldest TA under the high and medium variant assumptions, and third oldest under the low variant, with respectively 38.0 per cent, 37.1 per cent and 36.2 per cent aged 65+ years. These proportions accord with the NJD projections, which, with higher migration assumptions, fall slightly below SNZ's values (Figure 2.5 and Table 2.4).



Once a population has more than 20 per cent aged 65+ years it is usually approaching the end of natural increase; this threshold is generally preceded by the ratio of older people (65+ years) to children (0-14 years) rising above 1. Notable on Table 2.3 is that Tasman District already has more people aged 65+ years than children aged 0-14 (ratio 1.1, compared with 0.8 older people per child nationally), and that the key reproductive age groups in 2018 accounted for less than 28 per cent of the district's population (compared with 33 per cent nationally). These are key indicators in terms of an area's ability to produce and sustain growth through natural increase.

Table 2-3: Projected numbers by broad age group, ageing indices and projection variant, Tasman District

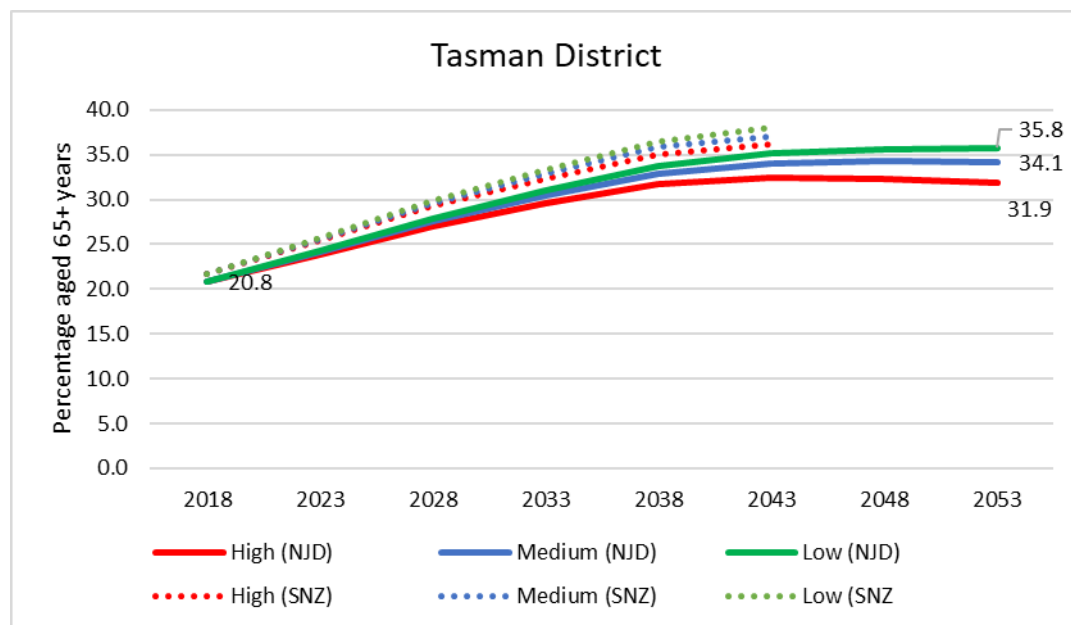
Tasman District									Change (%)
	2018	2023	2028	2033	2038	2043	2048	2053	2018-2053
<b>HIGH</b>									
0-14	9842	10215	10907	12130	13289	14281	15116	15921	61.8
15-24	5711	6235	6409	6215	6568	7540	8282	8985	57.3
25-54	19283	19827	20393	21708	23382	24987	26671	28371	47.1
55-64	8188	9003	9686	9700	9139	9073	9879	11044	34.9
65-74	6984	8482	9827	11019	12008	12319	11878	11741	68.1
75+	4315	5736	7742	9919	12267	14543	16791	18373	325.8
<b>Total</b>	<b>54323</b>	<b>59498</b>	<b>64964</b>	<b>70691</b>	<b>76654</b>	<b>82742</b>	<b>88618</b>	<b>94436</b>	<b>73.8</b>
65+	11299	14218	17569	20937	24276	26862	28669	30114	166.5
65+ (%)	20.8	23.9	27.0	29.6	31.7	32.5	32.4	31.9	53.3
<b>MEDIUM</b>									
0-14	9842	9800	9920	10409	10811	11080	11231	11335	15.2
15-24	5711	6002	6105	5718	5759	6230	6439	6654	16.5
25-54	19283	19410	19367	20083	21040	21832	22509	23004	19.3
55-64	8188	8867	9396	9229	8471	8225	8788	9603	17.3
65-74	6984	8310	9405	10346	11083	11123	10432	10089	44.5
75+	4315	5701	7600	9528	11512	13347	15102	16144	274.2
<b>Total</b>	<b>54323</b>	<b>58090</b>	<b>61794</b>	<b>65312</b>	<b>68676</b>	<b>71839</b>	<b>74501</b>	<b>76829</b>	<b>41.4</b>
65+	11299	14011	17006	19874	22595	24471	25534	26232	132.2
65+ (%)	20.8	24.1	27.5	30.4	32.9	34.1	34.3	34.1	64.2
<b>LOW</b>									
0-14	9842	9400	9008	8884	8718	8497	8228	7939	-19.3
15-24	5711	5771	5835	5248	5030	5095	4948	4856	-15.0
25-54	19283	19000	18381	18583	18931	19075	18967	18594	-3.6
55-64	8188	8738	9125	8794	7861	7468	7830	8366	2.2
65-74	6984	8135	8995	9717	10243	10061	9173	8686	24.4
75+	4315	5599	7307	8889	10422	11753	12979	13474	212.3
<b>Total</b>	<b>54323</b>	<b>56642</b>	<b>58651</b>	<b>60114</b>	<b>61206</b>	<b>61949</b>	<b>62124</b>	<b>61915</b>	<b>14.0</b>
65+	11299	13734	16302	18606	20666	21814	22151	22160	96.1
65+ (%)	20.8	24.2	27.8	31.0	33.8	35.2	35.7	35.8	72.1
<b>Ratio 65+ years: 0-14 years</b>									
High	1.1	1.4	1.6	1.7	1.8	1.9	1.9	1.9	64.8
Medium	1.1	1.4	1.7	1.9	2.1	2.2	2.3	2.3	101.6
Low	1.1	1.5	1.8	2.1	2.4	2.6	2.7	2.8	143.1
<b>Percentage at key reproductive ages (25-49 years)</b>									
High	27.8	25.7	25.1	25.2	25.2	24.5	24.3	24.1	-13.4
Medium	27.8	25.7	25.0	25.2	25.2	24.5	24.1	23.8	-14.3
Low	27.8	25.8	24.9	25.2	25.3	24.6	24.1	23.7	-14.7

Table 2-4: Projected percentage aged 65+ years 2018-2053 and comparison with Stats NZ, by projection variant, Tasman District

	2018	2023	2028	2033	2038	2043	2048	2053
High (NJD)	20.8	23.9	27.0	29.6	31.7	32.5	32.4	31.9
Medium (NJD)	20.8	24.1	27.5	30.4	32.9	34.1	34.3	34.1
Low (NJD)	20.8	24.2	27.8	31.0	33.8	35.2	35.7	35.8
High (SNZ)	21.6	25.5	29.3	32.3	35.1	36.2		
Medium (SNZ)	21.7	25.6	29.6	32.8	35.8	37.1		
Low (SNZ)	21.7	25.7	29.8	33.3	36.5	38.0		

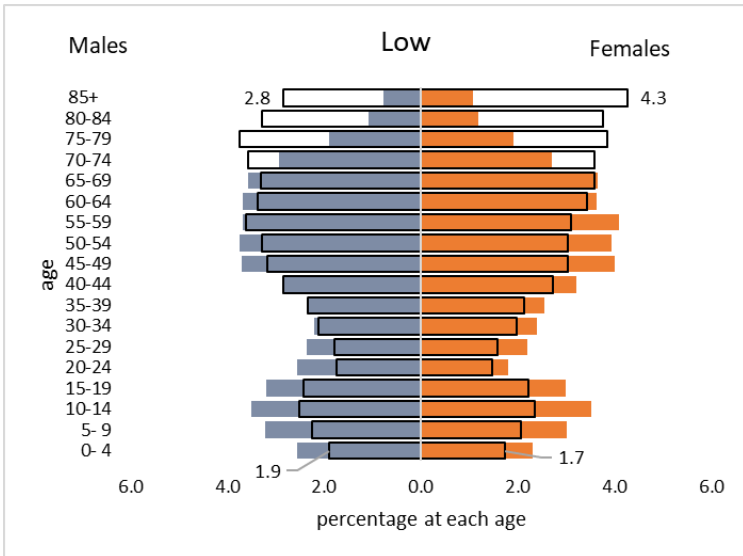
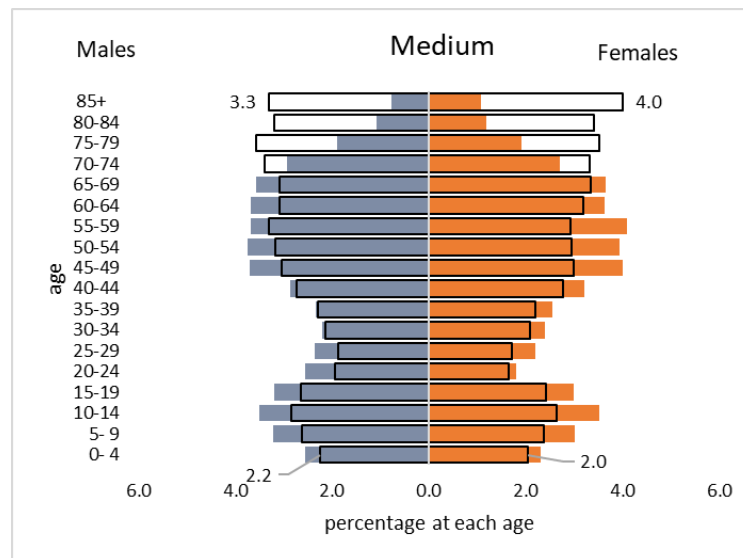
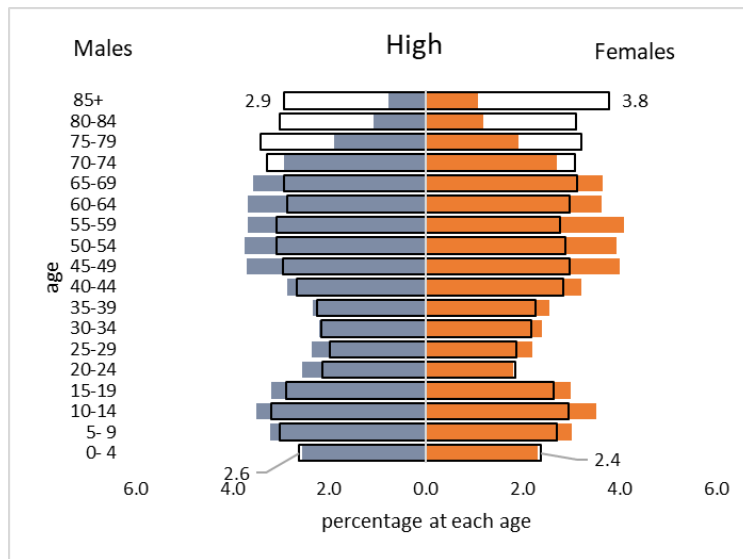
SNZ = Stats NZ (2017b)

Figure 2-5: Projected percentage aged 65+ years 2018-2053 and comparison with Stats NZ 2013-2043, by projection variant, Tasman District



The data by age are now presented in terms of age-sex structure (proportions of the total population in each age/sex group) in 2018 and projected for 2053 (Figure 2.6). Shaded bars indicate proportions in 2018, unshaded bars, 2053. The most notable observation from Figure 2.6 is that the 'bite' in the age structure over the main reproductive age groups (primarily reflecting net migration loss at those ages) changes very little over time, even with high migration. Although proportions aged 65+ years are projected to increase substantially, the age structures also remain relatively similar by variant. Proportions at the younger ages in 2053 are lowest under the low variant and highest under the high variant. The low variant projections also generate the highest proportion of females at 85+ years, while the medium variant generates the highest proportion of males—the slight disparity reflecting differences in migration by age.

Figure 2-6: Projected percentage in each age group by projection variant, Tasman District, 2018 (shaded bars) and 2053 (unshaded bars)



Finally, Table 2.5 presents projected household and dwelling numbers for the Tasman District and compares them with projected population numbers. Household and dwelling numbers increase by a greater margin than population numbers, under all three variants, due primarily to population ageing. That is, population ageing typically sees a reduction in average household size, in part because there are fewer children per household and in part because more people live as couples without children, or alone, the latter especially at older ages. Added to this is the growing tendency for people to have a second (holiday or weekend) home, especially at mid-older ages, which contributes to the relative increase in dwelling numbers. The latter is particularly important at Ward level, where unoccupied dwelling rates range from 4.7 per cent for Richmond Ward to 31.5 per cent for Golden Bay Ward.

Table 2-5: Projected population, family households and dwellings by projection variant, Tasman District

	Population			Family Households*			Dwellings/ERP		
	High	Medium	Low	High	Medium	Low	High	Medium	Low
2018	54,323	54,323	54,323	21,411	21,411	21,411	23,139	23,139	23,139
2023	59,498	58,090	56,642	23,451	22,896	22,326	25,633	25,132	24,574
2028	64,964	61,794	58,651	26,719	25,415	24,123	28,312	27,161	25,926
2033	70,691	65,312	60,114	29,074	26,862	25,848	31,169	29,173	27,084
2038	76,654	68,676	61,206	31,527	29,529	26,318	34,199	31,181	28,117
2043	82,742	71,839	61,949	35,578	30,890	27,892	37,358	33,164	29,028
2048	88,618	74,501	62,124	38,104	33,544	27,971	40,496	34,979	29,705
2053	94,436	76,829	61,915	42,519	34,592	29,221	43,685	36,697	30,222
<b>Change (%)</b>	<b>73.8</b>	<b>41.4</b>	<b>14.0</b>	<b>98.6</b>	<b>61.6</b>	<b>36.5</b>	<b>88.8</b>	<b>58.6</b>	<b>30.6</b>

\*Family households based on ratio of census usually resident population to occupied dwellings (2013-base)

### 3. Results – Wards and Motueka Township Overview

Table 3.1 provides an overview of the projection results for Tasman District, its five Wards and Motueka Township. Among the Wards, projected change under the high variant is greatest for Moutere-Waimea (+97.0%), while under the medium and low variants it is greatest for Motueka Ward (respectively 59.3% and 35.5%). Under the medium variant, Golden Bay Ward would peak around 2033 and then decline slightly, while under the low variant both Golden Bay and Murchison-Lakes would experience decline, respectively from 2023 and 2028. Under all three variants, the Motueka Township is projected to see the greatest overall growth.

Table 3-1: Projected numbers and % change by projection variant, Tasman District, Wards and Motueka Township 2018-2053

	2018	2023	2028	2033	2038	2043	2048	2053	Change 2018-2053
<b>High</b>									
Golden Bay Ward	5379	5680	5939	6167	6367	6513	6578	6616	23.0
Lakes-Murchison Ward	3735	3963	4200	4416	4606	4745	4854	4969	33.0
Motueka Ward	13015	14341	15801	17365	19037	20727	22435	24157	85.6
Moutere-Waimea Ward	14848	16677	18567	20550	22619	24854	27012	29252	97.0
Richmond Ward	17345	18837	20456	22192	24025	25902	27738	29441	69.7
<b>Tasman District</b>	<b>54323</b>	<b>59498</b>	<b>64964</b>	<b>70691</b>	<b>76654</b>	<b>82742</b>	<b>88618</b>	<b>94436</b>	<b>73.8</b>
Motueka Township	8270	9261	10383	11629	12971	14340	15727	17159	107.5
<b>Medium</b>									
Golden Bay Ward	5379	5545	5643	5688	5684	5614	5472	5311	-1.3
Lakes-Murchison Ward	3735	3871	3993	4073	4114	4091	4051	4005	7.2
Motueka Ward	13015	14081	15194	16330	17497	18620	19713	20739	59.3
Moutere-Waimea Ward	14848	16159	17405	18529	19562	20611	21388	22149	49.2
Richmond Ward	17345	18434	19559	20692	21819	22903	23876	24625	42.0
<b>Tasman District</b>	<b>54323</b>	<b>58090</b>	<b>61794</b>	<b>65312</b>	<b>68676</b>	<b>71839</b>	<b>74501</b>	<b>76829</b>	<b>41.4</b>
Motueka Township	8270	9057	9895	10783	11699	12588	13459	14313	73.1
<b>Low</b>									
Golden Bay Ward	5379	5407	5351	5228	5045	4799	4510	4217	-21.6
Lakes-Murchison Ward	3735	3777	3792	3751	3664	3511	3365	3202	-14.3
Motueka Ward	13015	13810	14569	15296	15991	16613	17179	17630	35.5
Moutere-Waimea Ward	14848	15635	16289	16633	16830	16969	16780	16602	11.8
Richmond Ward	17345	18013	18651	19206	19676	20057	20290	20264	16.8
<b>Tasman District</b>	<b>54323</b>	<b>56642</b>	<b>58651</b>	<b>60114</b>	<b>61206</b>	<b>61949</b>	<b>62124</b>	<b>61915</b>	<b>14.0</b>
Motueka Township	8270	8841	9394	9948	10480	10966	11418	11825	43.0

Figure 3.1 and Table 3.1 present the same data in terms of population share. Under all three variants, Richmond Ward maintains the greatest share across the projection period, followed under the high and medium variants by Moutere-Waimea and Motueka, while under the low variant, Motueka's share slightly exceeds that of Moutere-Waimea from around 2048.

Under the high variant, Golden Bay, Lakes-Murchison and Richmond all see a decline in share over the period, while Motueka Ward and Moutere-Waimea Ward see an increase. Under the medium variant, decline in share is limited to Golden Bay and Lakes-Murchison, while under the low variant, decline in share occurs for Golden Bay, Lakes-Murchison, and Moutere-Waimea. Under all three variants the greatest increase in share occurs for Motueka Ward (reflecting the fact that Motueka Township sees the greatest overall increase).

Figure 3-1: Projected population share (%) by projection variant, Tasman District and Wards 2018-2053

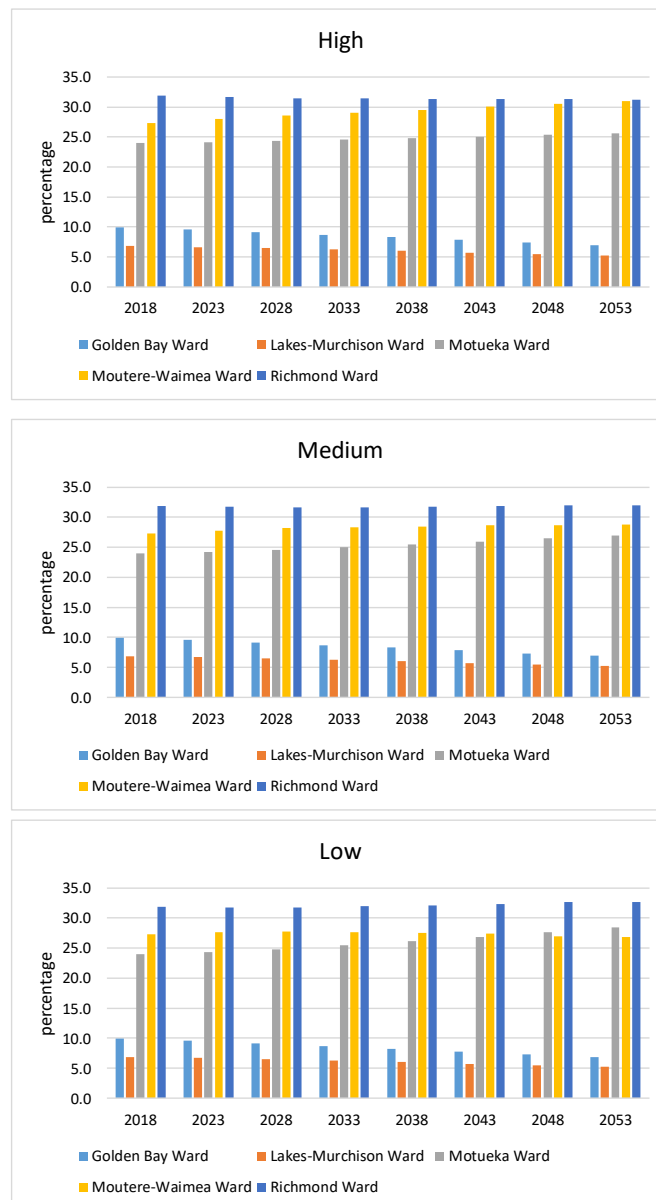


Table 3-2: Projected population share (%) and change in share (%) by projection variant, Tasman District, Wards and Motueka Township 2018-2053

	2018	2023	2028	2033	2038	2043	2048	2053	Change 2018- 2053
<b>High</b>									
Golden Bay Ward	9.9	9.5	9.1	8.7	8.3	7.9	7.4	7.0	-29.2
Lakes-Murchison Ward	6.9	6.7	6.5	6.2	6.0	5.7	5.5	5.3	-23.5
Motueka Ward	24.0	24.1	24.3	24.6	24.8	25.1	25.3	25.6	6.8
Moutere-Waimea Ward	27.3	28.0	28.6	29.1	29.5	30.0	30.5	31.0	13.3
Richmond Ward	31.9	31.7	31.5	31.4	31.3	31.3	31.3	31.2	-2.4
<b>Tasman District</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	...
Motueka Township	15.2	15.6	16.0	16.4	16.9	17.3	17.7	18.2	19.4
<b>Medium</b>									
Golden Bay Ward	9.9	9.5	9.1	8.7	8.3	7.8	7.3	6.9	-30.2
Lakes-Murchison Ward	6.9	6.7	6.5	6.2	6.0	5.7	5.4	5.2	-24.2
Motueka Ward	24.0	24.2	24.6	25.0	25.5	25.9	26.5	27.0	12.7
Moutere-Waimea Ward	27.3	27.8	28.2	28.4	28.5	28.7	28.7	28.8	5.5
Richmond Ward	31.9	31.7	31.7	31.7	31.8	31.9	32.0	32.1	0.4
<b>Tasman District</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	...
Motueka Township	15.2	15.6	16.0	16.5	17.0	17.5	18.1	18.6	22.4
<b>Low</b>									
Golden Bay Ward	9.9	9.5	9.1	8.7	8.2	7.7	7.3	6.8	-31.2
Lakes-Murchison Ward	6.9	6.7	6.5	6.2	6.0	5.7	5.4	5.2	-24.8
Motueka Ward	24.0	24.4	24.8	25.4	26.1	26.8	27.7	28.5	18.8
Moutere-Waimea Ward	27.3	27.6	27.8	27.7	27.5	27.4	27.0	26.8	-1.9
Richmond Ward	31.9	31.8	31.8	31.9	32.1	32.4	32.7	32.7	2.5
<b>Tasman District</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	...
Motueka Township	15.2	15.6	16.0	16.5	17.1	17.7	18.4	19.1	25.5

These changing population shares and projected onset of depopulation in some Wards reflects the combined impact of the migration age profile assumptions and structural population ageing. As indicated on Figure 2.6 for Tasman District (above), the proportion of the population at younger ages is reducing and the proportion at older ages is increasing. The increase in the proportion at older ages is typically greatest under the low variant assumptions, which see lower fertility and migration rates reduce the proportion at younger ages (and concomitantly increase the proportion at older ages), and typically lowest under the high variant, because higher fertility and migration rates typically increase the proportion at younger ages—although not to the extent that they are able to fully offset population ageing (Jackson and Cameron 2018). However, for many areas, net migration gains around retirement age add to the numbers at older ages, with the result that the high and/or medium migration variants may contribute to greater proportions at older ages. This is the case for Motueka Township (see Figure 1.3 above). As a result the projected percentage aged 65+ years is (atypically) highest under the high variant. Increasing life expectancy and cohort ageing (where smaller cohorts are replaced by larger ones) also contribute to these increases.

Table 3.3 and Figure 3.2 provide a summary overview of structural ageing as indicated by percentage aged 65+ years, by Ward and for Motueka Township (see Section 4 for data by broad age group and age-sex structure, and Appendix F for data by five-year age group).

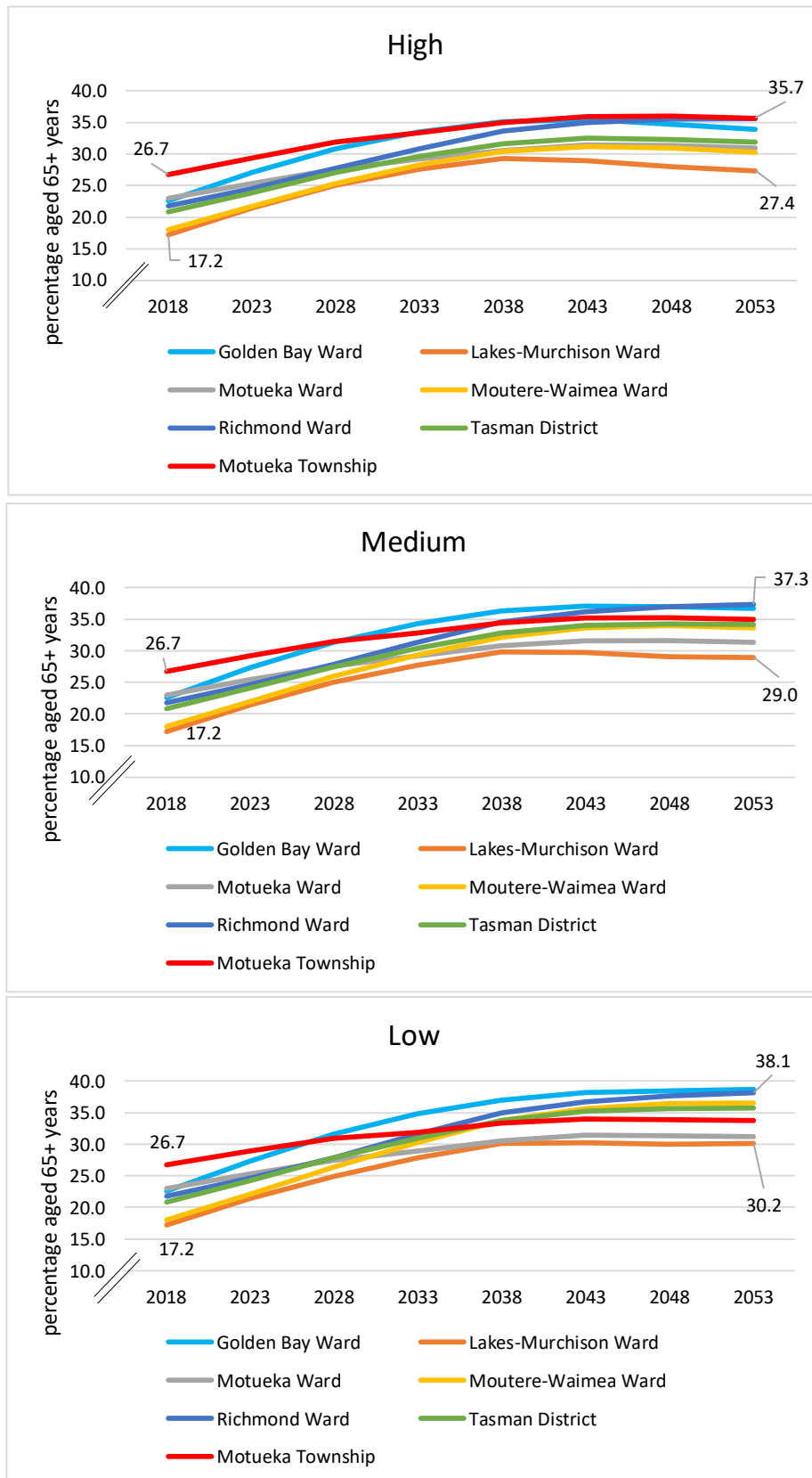
In 2018, the proportion aged 65+ years ranged from 17.2 per cent for Lakes-Murchison Ward to 23.0 per cent for Motueka Ward and 26.7 per cent for Motueka Township. By 2053 these proportions are projected to be somewhat higher under all projection variants, with Lakes-Murchison maintaining the youngest age structure throughout, and the oldest being variously shared by Golden Bay Ward, Richmond Ward, and Motueka Township, depending on the variant. Under the low variant, Moutere-Waimea Ward displaces Motueka Township among the oldest populations.

Table 3-3: Projected percentage aged 65+ years by projection variant, Tasman District, Wards and Motueka Township 2018-2053

	2018	2023	2028	2033	2038	2043	2048	2053
<b>High</b>								
Golden Bay Ward	22.5	27.1	30.9	33.6	35.1	35.4	34.8	33.9
Lakes-Murchison Ward	17.2	21.5	25.0	27.5	29.3	28.9	27.9	27.4
Motueka Ward	23.0	25.4	27.5	29.2	30.6	31.4	31.3	30.9
Moutere-Waimea Ward	18.0	21.6	25.4	28.2	30.4	31.2	31.0	30.3
Richmond Ward	21.8	24.5	27.7	30.9	33.7	35.0	35.5	35.6
<b>Tasman District</b>	<b>20.8</b>	<b>23.9</b>	<b>27.0</b>	<b>29.6</b>	<b>31.7</b>	<b>32.5</b>	<b>32.4</b>	<b>31.9</b>
Motueka Township	26.7	29.4	31.9	33.4	35.0	35.9	36.0	35.7
<b>Medium</b>								
Golden Bay Ward	22.5	27.3	31.4	34.4	36.3	37.1	37.0	36.7
Lakes-Murchison Ward	17.2	21.5	25.0	27.8	29.8	29.7	29.1	29.0
Motueka Ward	23.0	25.4	27.6	29.2	30.8	31.6	31.6	31.3
Moutere-Waimea Ward	18.0	21.9	26.0	29.4	32.2	33.6	34.0	33.7
Richmond Ward	21.8	24.7	27.9	31.4	34.6	36.2	37.0	37.3
<b>Tasman District</b>	<b>20.8</b>	<b>24.1</b>	<b>27.5</b>	<b>30.4</b>	<b>32.9</b>	<b>34.1</b>	<b>34.3</b>	<b>34.1</b>
Motueka Township	26.7	29.2	31.5	32.9	34.4	35.2	35.2	35.0
<b>Low</b>								
Golden Bay Ward	22.5	27.4	31.6	34.8	37.0	38.2	38.4	38.7
Lakes-Murchison Ward	17.2	21.4	24.9	27.8	30.1	30.2	30.0	30.2
Motueka Ward	23.0	25.3	27.4	28.9	30.5	31.4	31.3	31.2
Moutere-Waimea Ward	18.0	22.1	26.4	30.3	33.8	35.7	36.5	36.5
Richmond Ward	21.8	24.6	27.9	31.6	35.0	36.8	37.7	38.1
<b>Tasman District</b>	<b>20.8</b>	<b>24.2</b>	<b>27.8</b>	<b>31.0</b>	<b>33.8</b>	<b>35.2</b>	<b>35.7</b>	<b>35.8</b>
Motueka Township	26.7	28.9	30.9	31.9	33.3	34.0	33.9	33.8



Figure 3-2: Projected percentage aged 65+ years by projection variant, Tasman District, Wards and Motueka Township 2018-2053



## 4. Data files (Wards and Motueka Township)

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Tables 4.1 to 4.6 (below) present population, household, and dwelling results for each individual Ward and for Motueka Township. The population data were briefly described in Section 3. In terms of household and dwelling numbers, there is a greater projected increase in both, than in population, for all but Golden Bay Ward and Lakes-Murchison Ward, while for these Wards, which are projected to experience population decline over the period, the decline in household and dwelling numbers is lower than the decline in population. These outcomes occur in part because population ageing is associated with a decline in average household size, but an increase in household and dwelling numbers. In the case of Golden Bay Ward and Lakes-Murchison Ward it should be recalled that a projected decline in dwelling numbers simply signifies that fewer dwellings will be required to maintain the ratio (of population to dwellings) at its current and projected level, not that dwelling numbers will reduce *per se*. It should also be recalled that some areas—here identified as Moutere-Waimea Ward, Richmond Ward and Motueka Township, have fewer dwellings than households at several observations.

Tables 4.7 to 4.12 and Figures 4.1 to 4.6 (Components of Change) provide insight into the population projections. Despite positive net migration assumptions for all but Golden Bay and Lakes-Murchison wards under all three projection variants, all areas begin to experience natural decrease (more deaths than births) at some point during the projection period. Golden Bay Ward, Richmond Ward and Motueka Township enter natural decrease almost immediately, reflecting their older age structures, while Motueka Ward and Moutere-Waimea Ward enter it between 2028 and 2033, around the same time as Tasman District. Reflecting a younger base age structure, Lakes-Murchison does not enter natural decrease until between 2038 and 2043 (medium variant) or 2023 (low variant). However, because net migration for Lakes-Murchison is projected to be negative from 2038 under the medium variant, and from 2018 under the low variant, the two elements combine to accelerate depopulation.

Generally, the shift from natural increase to natural decrease reflects structural ageing, where the proportions at older ages increase, partly due to declining birth rates, partly to increasing longevity, partly (where this occurs) to net migration gains at older ages, and partly (where this occurs) to net migration losses at younger (adult) ages. Each of these dynamics accelerate structural ageing. The shifts are also associated with a relative reduction in the proportion at reproductive age, further reducing the number of children born into each population. Each of these elements can be observed in the data for the

Tasman District, its Wards, and Motueka Township. Data for broad age groups are presented in Tables 4.13 to 4.18 and age-sex structures are depicted in Figures 4.7 to 4.12. See Appendix F for underlying data by five-year age group.

## Population, Households and Dwellings

Table 4-1: Projected population, households and dwellings by projection variant, Golden Bay Ward

	Population			Family Households*			Dwellings/ERP		
	High	Medium	Low	High	Medium	Low	High	Medium	Low
2018	5,379	5,379	5,379	2,403	2,403	2,403	3,221	3,221	3,221
2023	5,680	5,545	5,407	2,537	2,477	2,415	3,440	3,373	3,298
2028	5,939	5,643	5,351	2,768	2,630	2,494	3,638	3,487	3,325
2033	6,167	5,688	5,228	2,875	2,651	2,548	3,823	3,572	3,311
2038	6,367	5,684	5,045	2,968	2,770	2,459	3,993	3,628	3,258
2043	6,513	5,614	4,799	3,174	2,736	2,449	4,134	3,643	3,161
2048	6,578	5,472	4,510	3,206	2,792	2,301	4,226	3,612	3,031
2053	6,616	5,311	4,217	3,376	2,710	2,255	4,302	3,566	2,893
<b>Change (%)</b>	<b>23.0</b>	<b>-1.3</b>	<b>-21.6</b>	<b>40.5</b>	<b>12.8</b>	<b>-6.1</b>	<b>33.6</b>	<b>10.7</b>	<b>-10.2</b>

\*Family households based on ratio of census usually resident population to occupied dwellings (2013-base)

Table 4-2: Projected population, households and dwellings by projection variant, Lakes-Murchison Ward

	Population			Family Households*			Dwellings/ERP		
	High	Medium	Low	High	Medium	Low	High	Medium	Low
2018	3,735	3,735	3,735	1,543	1,543	1,543	1,950	1,950	1,950
2023	3,963	3,871	3,777	1,638	1,599	1,561	2,093	2,053	2,009
2028	4,200	3,993	3,792	1,811	1,721	1,635	2,244	2,151	2,055
2033	4,416	4,073	3,751	1,904	1,756	1,691	2,387	2,230	2,072
2038	4,606	4,114	3,664	1,986	1,854	1,652	2,519	2,290	2,063
2043	4,745	4,091	3,511	2,139	1,844	1,657	2,626	2,315	2,017
2048	4,854	4,051	3,365	2,188	1,912	1,588	2,719	2,332	1,973
2053	4,969	4,005	3,202	2,345	1,890	1,584	2,818	2,345	1,916
<b>Change (%)</b>	<b>33.0</b>	<b>7.2</b>	<b>-14.3</b>	<b>52.0</b>	<b>22.5</b>	<b>2.7</b>	<b>44.5</b>	<b>20.2</b>	<b>-1.8</b>

\*Family households based on ratio of census usually resident population to occupied dwellings (2013-base)

Table 4-3: Projected population, households and dwellings by projection variant, Motueka Ward

	Population			Family Households*			Dwellings/ERP		
	High	Medium	Low	High	Medium	Low	High	Medium	Low
2018	13,015	13,015	13,015	5,314	5,314	5,314	5,686	5,686	5,686
2023	14,341	14,081	13,810	5,855	5,749	5,638	6,336	6,248	6,145
2028	15,801	15,194	14,569	6,732	6,473	6,206	7,063	6,849	6,605
2033	17,365	16,330	15,296	7,398	6,957	6,813	7,852	7,481	7,068
2038	19,037	17,497	15,991	8,110	7,792	7,122	8,710	8,147	7,534
2043	20,727	18,620	16,613	9,231	8,293	7,748	9,598	8,816	7,984
2048	22,435	19,713	17,179	9,992	9,193	8,011	10,515	9,492	8,424
2053	24,157	20,739	17,630	11,266	9,672	8,618	11,461	10,159	8,826
<b>Change (%)</b>	<b>85.6</b>	<b>59.3</b>	<b>35.5</b>	<b>112.0</b>	<b>82.0</b>	<b>62.2</b>	<b>101.6</b>	<b>78.7</b>	<b>55.2</b>

\*Family households based on ratio of census usually resident population to occupied dwellings (2013-base)

Table 4-4: Projected population, households and dwellings by projection variant, Mouere-Waimea Ward

	Population			Family Households*			Dwellings/ERP		
	High	Medium	Low	High	Medium	Low	High	Medium	Low
2018	14,848	14,848	14,848	5,552	5,552	5,552	5,688	5,688	5,688
2023	16,677	16,159	15,635	6,235	6,042	5,846	6,462	6,287	6,100
2028	18,567	17,405	16,289	7,244	6,791	6,355	7,277	6,880	6,475
2033	20,550	18,529	16,633	8,018	7,229	6,784	8,149	7,443	6,739
2038	22,619	19,562	16,830	8,825	7,979	6,865	9,075	7,987	6,953
2043	24,854	20,611	16,969	10,138	8,407	7,248	10,092	8,557	7,151
2048	27,012	21,388	16,780	11,018	9,135	7,167	11,101	9,031	7,216
2053	29,252	22,149	16,602	12,494	9,460	7,433	12,169	9,514	7,288
<b>Change (%)</b>	<b>97.0</b>	<b>49.2</b>	<b>11.8</b>	<b>125.1</b>	<b>70.4</b>	<b>33.9</b>	<b>114.0</b>	<b>67.3</b>	<b>28.1</b>

\*Family households based on ratio of census usually resident population to occupied dwellings (2013-base)

Table 4-5: Projected population, households and dwellings by projection variant, Richmond Ward

	Population			Family Households*			Dwellings/ERP		
	High	Medium	Low	High	Medium	Low	High	Medium	Low
2018	17,345	17,345	17,345	6,572	6,572	6,572	6,585	6,585	6,585
2023	18,837	18,434	18,013	7,137	6,984	6,825	7,234	7,109	6,966
2028	20,456	19,559	18,651	8,088	7,733	7,374	7,946	7,663	7,349
2033	22,192	20,692	19,206	8,774	8,181	7,939	8,722	8,238	7,713
2038	24,025	21,819	19,676	9,499	9,019	8,133	9,554	8,830	8,057
2043	25,902	22,903	20,057	10,706	9,467	8,681	10,424	9,424	8,377
2048	27,738	23,876	20,290	11,465	10,334	8,782	11,298	9,992	8,648
2053	29,441	24,625	20,264	12,743	10,658	9,194	12,139	10,484	8,817
<b>Change (%)</b>	<b>69.7</b>	<b>42.0</b>	<b>16.8</b>	<b>93.9</b>	<b>62.2</b>	<b>39.9</b>	<b>84.3</b>	<b>59.2</b>	<b>33.9</b>

\*Family households based on ratio of census usually resident population to occupied dwellings (2013-base)

Table 4-6: Projected population, households and dwellings by projection variant, Motueka Township

	Population			Family Households*			Dwellings/ERP		
	High	Medium	Low	High	Medium	Low	High	Medium	Low
2018	8,270	8,270	8,270	3,391	3,391	3,391	3,296	3,296	3,296
2023	9,261	9,057	8,841	3,797	3,714	3,625	3,733	3,666	3,588
2028	10,383	9,895	9,394	4,443	4,234	4,019	4,234	4,069	3,885
2033	11,629	10,783	9,948	4,976	4,614	4,450	4,797	4,506	4,193
2038	12,971	11,699	10,480	5,550	5,233	4,688	5,414	4,970	4,504
2043	14,340	12,588	10,966	6,414	5,631	5,137	6,057	5,437	4,808
2048	15,727	13,459	11,418	7,035	6,304	5,348	6,724	5,912	5,108
2053	17,159	14,313	11,825	8,037	6,704	5,806	7,426	6,396	5,400
<b>Change (%)</b>	<b>107.5</b>	<b>73.1</b>	<b>43.0</b>	<b>137.0</b>	<b>97.7</b>	<b>71.2</b>	<b>125.3</b>	<b>94.1</b>	<b>63.9</b>

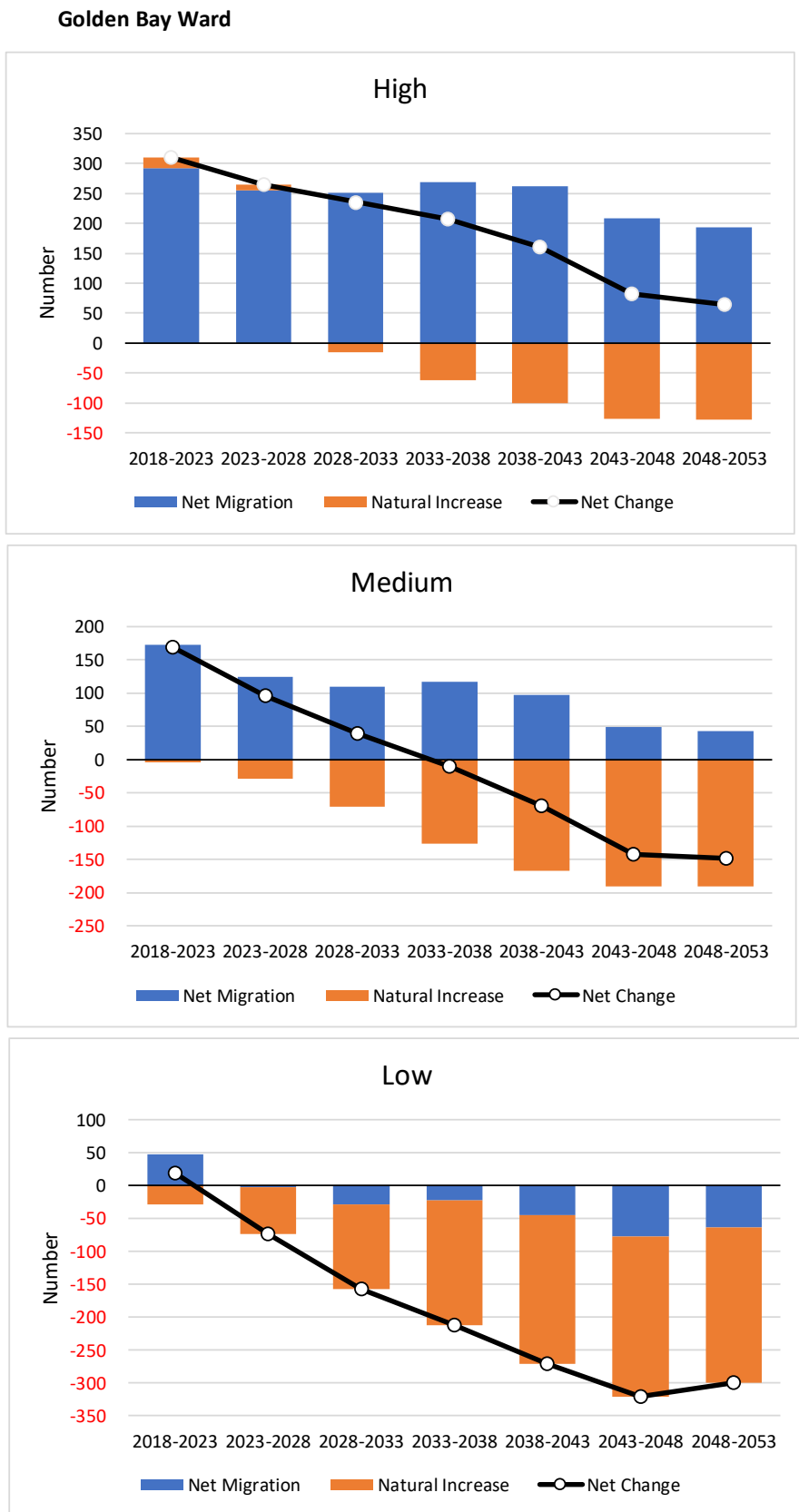
\*Family households based on ratio of census usually resident population to occupied dwellings (2013-base)

## Components of Change

Table 4-7: Projected components of change and net change (numbers per five year period), and contribution (%) of each component to net change, by projection variant, Golden Bay Ward

<b>Golden Bay Ward</b>					
<b>Period</b>	<b>Net Migration</b>	<b>Natural Increase</b>	<b>Net Change</b>	<b>Cont. of Migration (%)</b>	<b>Cont. of Natural Increase (%)</b>
<b>High</b>					
2018-2023	292	18	309	94.3	5.7
2023-2028	255	9	265	96.4	3.6
2028-2033	251	-15	235	106.6	-6.6
2033-2038	268	-62	207	129.9	-29.9
2038-2043	262	-101	161	163.0	-63.0
2043-2048	209	-127	82	253.9	-153.9
2048-2053	193	-128	65	296.6	-196.6
<b>Medium</b>					
2018-2023	173	-4	169	102.2	-2.2
2023-2028	125	-29	96	130.5	-30.5
2028-2033	110	-71	39	282.0	-182.0
2033-2038	117	-126	-10	1202.0	-1302.0
2038-2043	97	-167	-70	138.7	-238.7
2043-2048	49	-191	-143	34.0	-134.0
2048-2053	42	-191	-148	28.5	-128.5
<b>Low</b>					
2018-2023	48	-29	19	253.0	-153.0
2023-2028	-3	-71	-74	-4.0	-96.0
2028-2033	-30	-128	-157	-18.8	-81.2
2033-2038	-23	-189	-212	-10.9	-89.1
2038-2043	-45	-226	-271	-16.6	-83.4
2043-2048	-78	-243	-321	-24.3	-75.7
2048-2053	-65	-235	-300	-21.5	-78.5

Figure 4-1: Projected components of change and net change (numbers per five year period) by projection variant, Golden Bay Ward



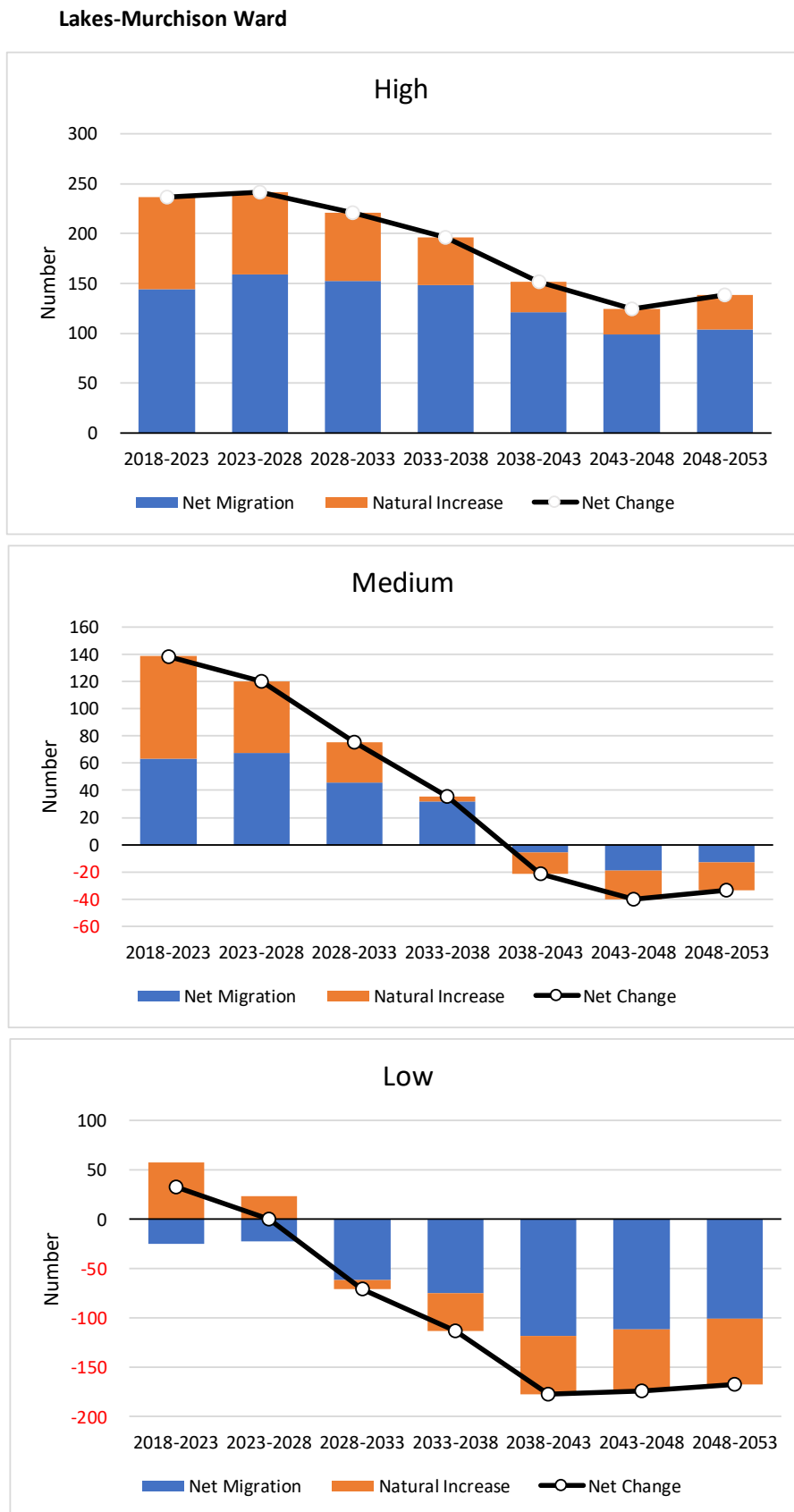
Note different scales on Y-axis

Table 4-8: Projected components of change and net change (numbers per five year period), and contribution (%) of each component to net change, by projection variant, Lakes-Murchison Ward

<b>Lakes-Murchison Ward</b>					
<b>Period</b>	<b>Net Migration</b>	<b>Natural Increase</b>	<b>Net Change</b>	<b>Cont. of Migration (%)</b>	<b>Cont. of Natural Increase (%)</b>
<b>High</b>					
2018-2023	144	93	237	60.9	39.1
2023-2028	159	82	241	65.8	34.2
2028-2033	152	69	221	68.8	31.2
2033-2038	148	48	196	75.5	24.5
2038-2043	121	31	152	79.6	20.4
2043-2048	98	26	125	78.9	21.1
2048-2053	104	34	138	75.2	24.8
<b>Medium</b>					
2018-2023	63	75	138	45.5	54.5
2023-2028	67	53	120	56.0	44.0
2028-2033	46	30	75	60.6	39.4
2033-2038	32	4	35	89.9	10.1
2038-2043	-6	-16	-21	-26.4	-73.6
2043-2048	-19	-21	-40	-47.1	-52.9
2048-2053	-13	-21	-33	-37.9	-62.1
<b>Low</b>					
2018-2023	-25	57	32	-77.2	177.2
2023-2028	-23	23	-0	...	...
2028-2033	-62	-9	-71	-87.7	-12.3
2033-2038	-75	-39	-114	-66.0	-34.0
2038-2043	-118	-59	-177	-66.7	-33.3
2043-2048	-112	-62	-174	-64.5	-35.5
2048-2053	-101	-67	-168	-60.2	-39.8



Figure 4-2: Projected components of change and net change (numbers per five year period) by projection variant, Lakes-Murchison Ward

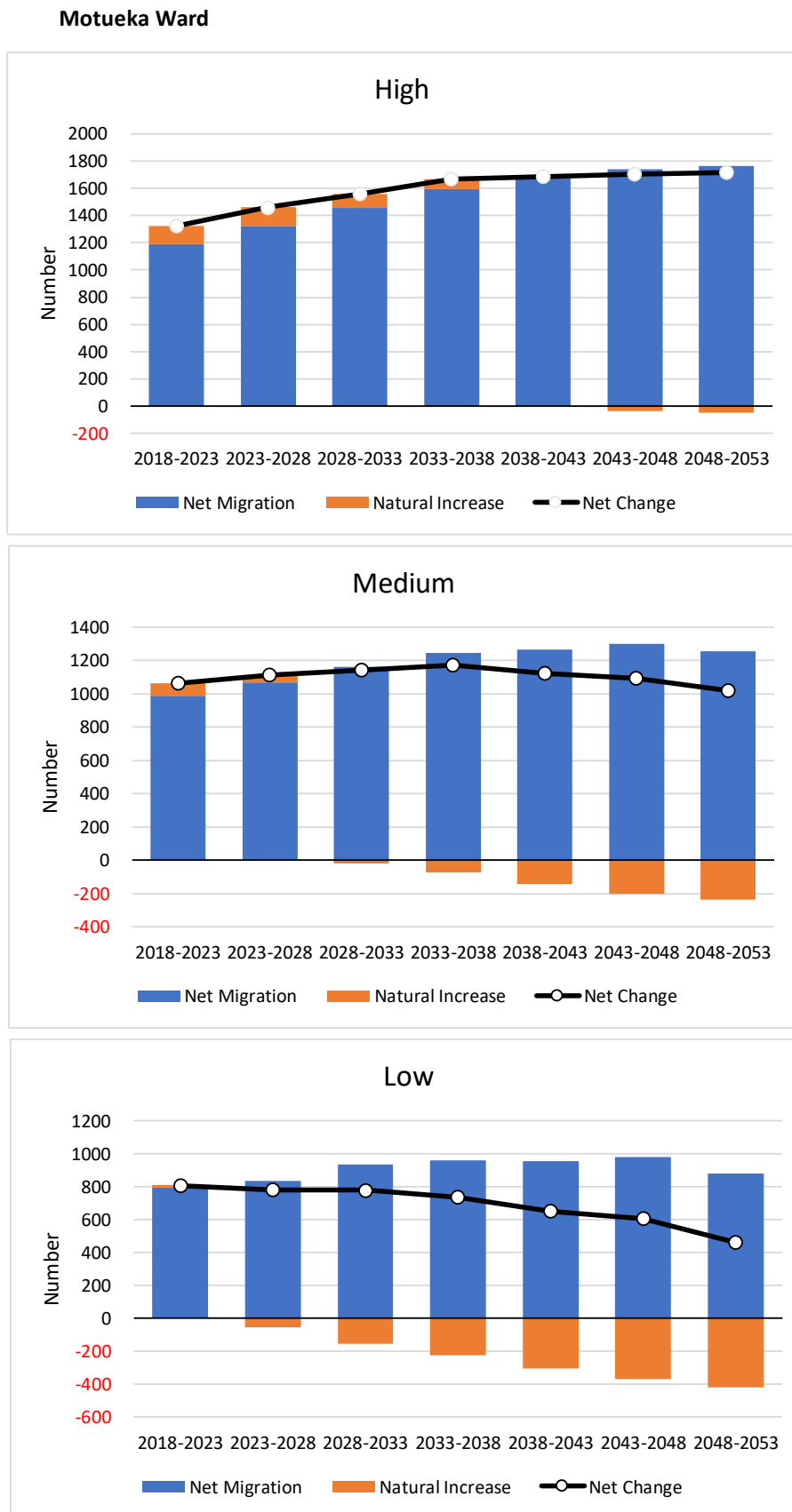


Note different scales on Y-axis

Table 4-9: Projected components of change and net change (numbers per five year period), and contribution (%) of each component to net change, by projection variant, Motueka Ward

<b>Motueka Ward</b>					
<b>Period</b>	<b>Net Migration</b>	<b>Natural Increase</b>	<b>Net Change</b>	<b>Cont. of Migration (%)</b>	<b>Cont. of Natural Increase (%)</b>
<b>High</b>					
2018-2023	1193	129	1322	90.2	9.8
2023-2028	1321	137	1459	90.6	9.4
2028-2033	1454	107	1561	93.1	6.9
2033-2038	1594	75	1669	95.5	4.5
2038-2043	1670	18	1688	99.0	1.0
2043-2048	1737	-34	1703	102.0	-2.0
2048-2053	1765	-48	1717	102.8	-2.8
<b>Medium</b>					
2018-2023	986	78	1064	92.7	7.3
2023-2028	1068	46	1115	95.8	4.2
2028-2033	1161	-19	1142	101.7	-1.7
2033-2038	1245	-72	1172	106.2	-6.2
2038-2043	1264	-141	1123	112.6	-12.6
2043-2048	1298	-204	1094	118.6	-18.6
2048-2053	1256	-238	1018	123.3	-23.3
<b>Low</b>					
2018-2023	794	13	807	98.4	1.6
2023-2028	835	-56	779	107.2	-7.2
2028-2033	932	-155	777	120.0	-20.0
2033-2038	960	-226	733	130.8	-30.8
2038-2043	953	-304	649	146.8	-46.8
2043-2048	978	-372	606	161.4	-61.4
2048-2053	880	-420	460	191.2	-91.2

Figure 4-3: Projected components of change and net change (numbers per five year period) by projection variant, Motueka Ward

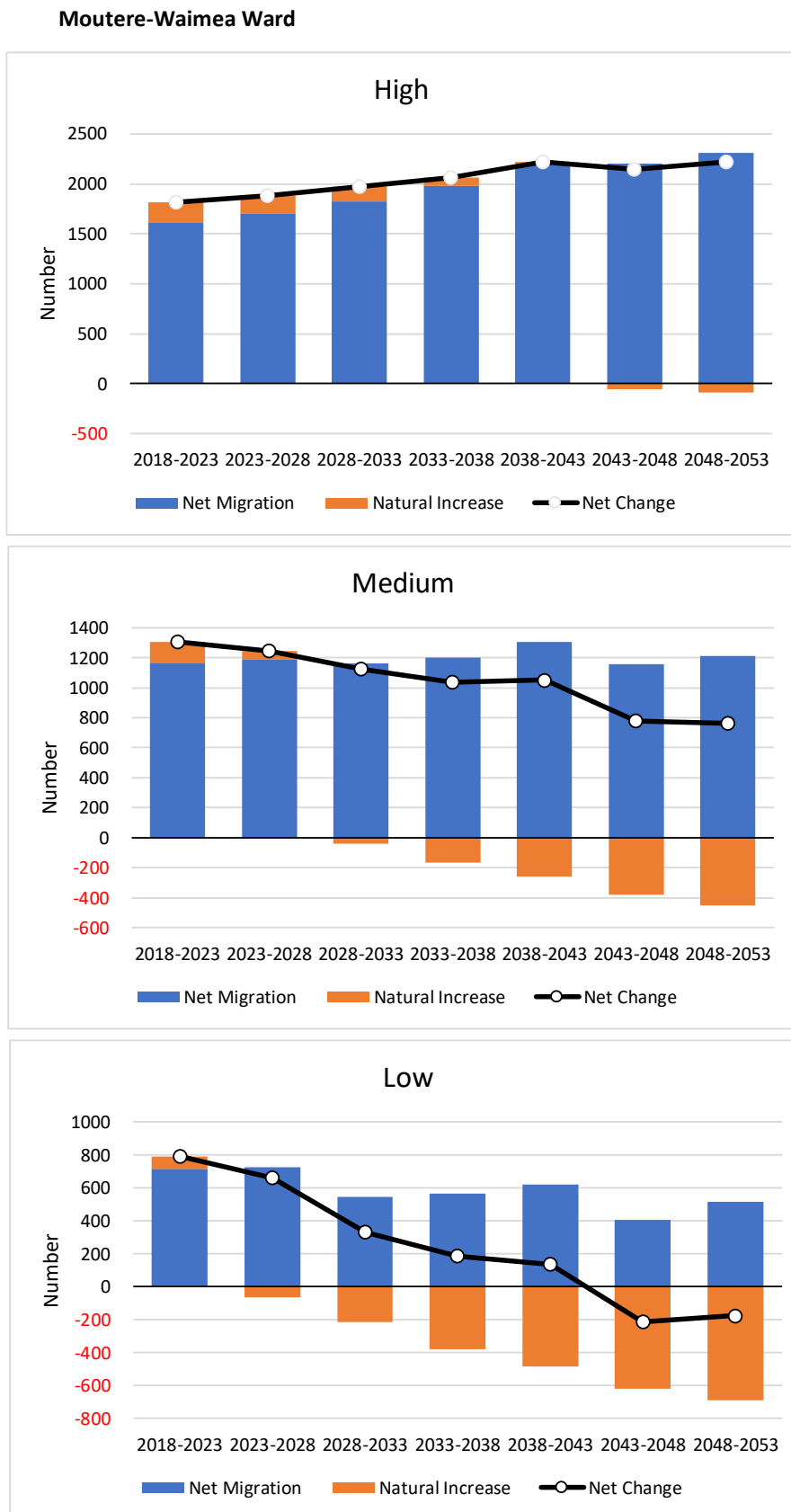


Note different scales on Y-axis

Table 4-10: Projected components of change and net change (numbers per five year period), and contribution (%) of each component to net change, by projection variant, Moutere-Waimea Ward

<b>Moutere-Waimea Ward</b>					
<b>Period</b>	<b>Net Migration</b>	<b>Natural Increase</b>	<b>Net Change</b>	<b>Cont. of Migration (%)</b>	<b>Cont. of Natural Increase (%)</b>
<b>High</b>					
2018-2023	1607	206	1813	88.7	11.3
2023-2028	1699	182	1880	90.3	9.7
2028-2033	1825	149	1975	92.4	7.6
2033-2038	1982	79	2061	96.2	3.8
2038-2043	2196	25	2220	98.9	1.1
2043-2048	2200	-56	2145	102.6	-2.6
2048-2053	2307	-91	2216	104.1	-4.1
<b>Medium</b>					
2018-2023	1164	142	1307	89.1	10.9
2023-2028	1190	58	1247	95.4	4.6
2028-2033	1163	-37	1126	103.3	-3.3
2033-2038	1199	-164	1035	115.8	-15.8
2038-2043	1308	-257	1050	124.5	-24.5
2043-2048	1158	-378	779	148.6	-48.6
2048-2053	1215	-454	761	159.7	-59.7
<b>Low</b>					
2018-2023	716	75	791	90.5	9.5
2023-2028	724	-65	659	109.9	-9.9
2028-2033	544	-213	331	164.5	-64.5
2033-2038	563	-378	185	305.0	-205.0
2038-2043	621	-486	135	461.0	-361.0
2043-2048	404	-619	-215	187.6	-287.6
2048-2053	514	-692	-178	289.1	-389.1

Figure 4-4: Projected components of change and net change (numbers per five year period) by projection variant, Moutere-Waimea Ward

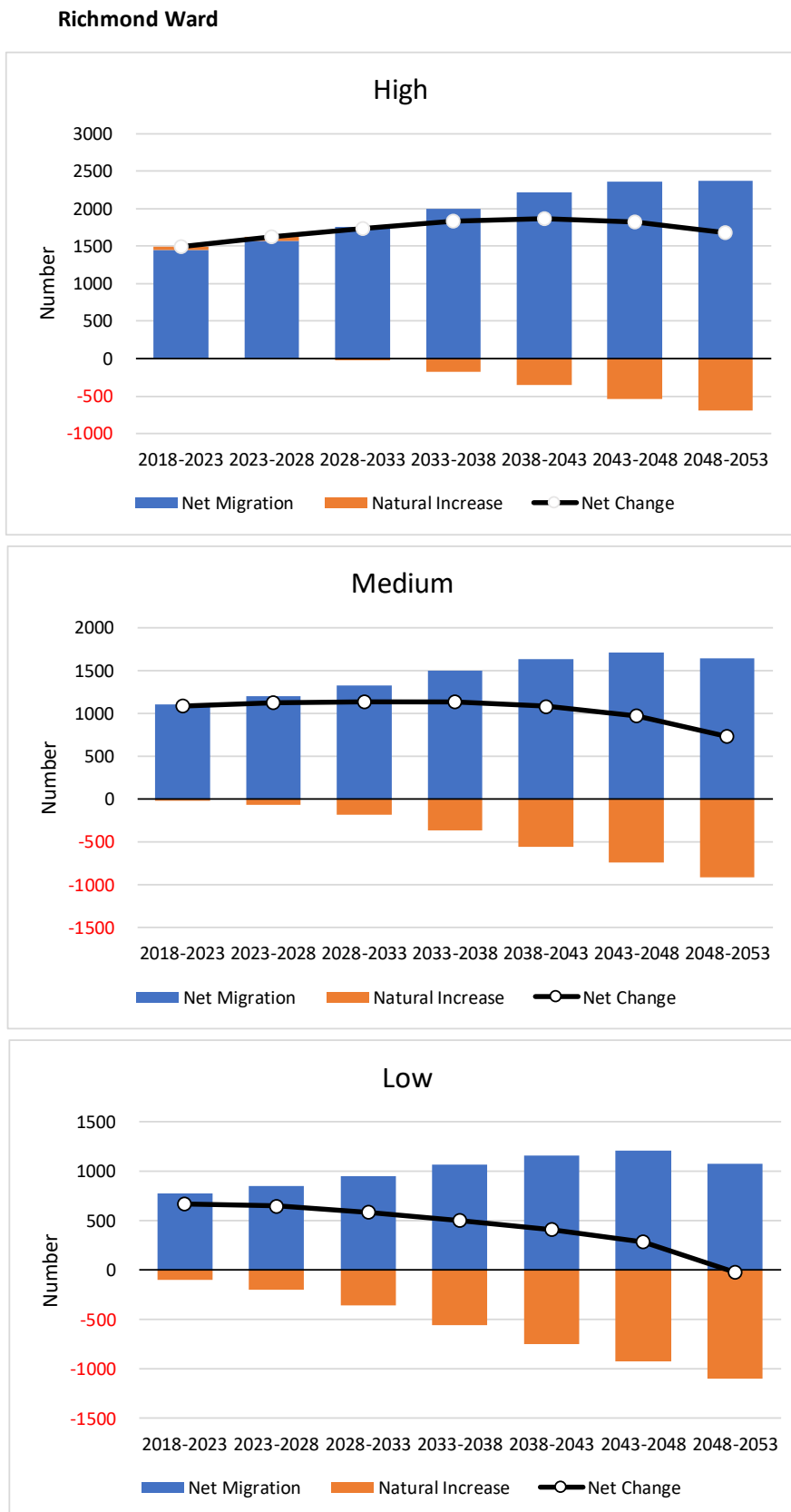


Note different scales on Y-axis

Table 4-11: Projected components of change and net change (numbers per five year period), and contribution (%) of each component to net change, by projection variant, Richmond Ward

<b>Richmond Ward</b>					
<b>Period</b>	<b>Net Migration</b>	<b>Natural Increase</b>	<b>Net Change</b>	<b>Cont. of Migration (%)</b>	<b>Cont. of Natural Increase (%)</b>
<b>High</b>					
2018-2023	1449	45	1494	97.0	3.0
2023-2028	1573	47	1621	97.1	2.9
2028-2033	1759	-23	1736	101.3	-1.3
2033-2038	2001	-171	1830	109.3	-9.3
2038-2043	2221	-353	1868	118.9	-18.9
2043-2048	2356	-536	1820	129.5	-29.5
2048-2053	2377	-696	1681	141.4	-41.4
<b>Medium</b>					
2018-2023	1108	-19	1089	101.7	-1.7
2023-2028	1197	-70	1127	106.2	-6.2
2028-2033	1324	-188	1136	116.5	-16.5
2033-2038	1495	-365	1131	132.2	-32.2
2038-2043	1635	-554	1081	151.2	-51.2
2043-2048	1711	-740	971	176.2	-76.2
2048-2053	1643	-913	731	224.9	-124.9
<b>Low</b>					
2018-2023	770	-100	670	114.9	-14.9
2023-2028	845	-200	645	131.0	-31.0
2028-2033	945	-362	583	162.2	-62.2
2033-2038	1061	-561	500	212.3	-112.3
2038-2043	1158	-750	408	283.8	-183.8
2043-2048	1208	-929	279	432.5	-332.5
2048-2053	1073	-1098	-24	4429.8	-4529.8

Figure 4-5: Projected components of change and net change (numbers per five year period) by projection variant, Richmond Ward



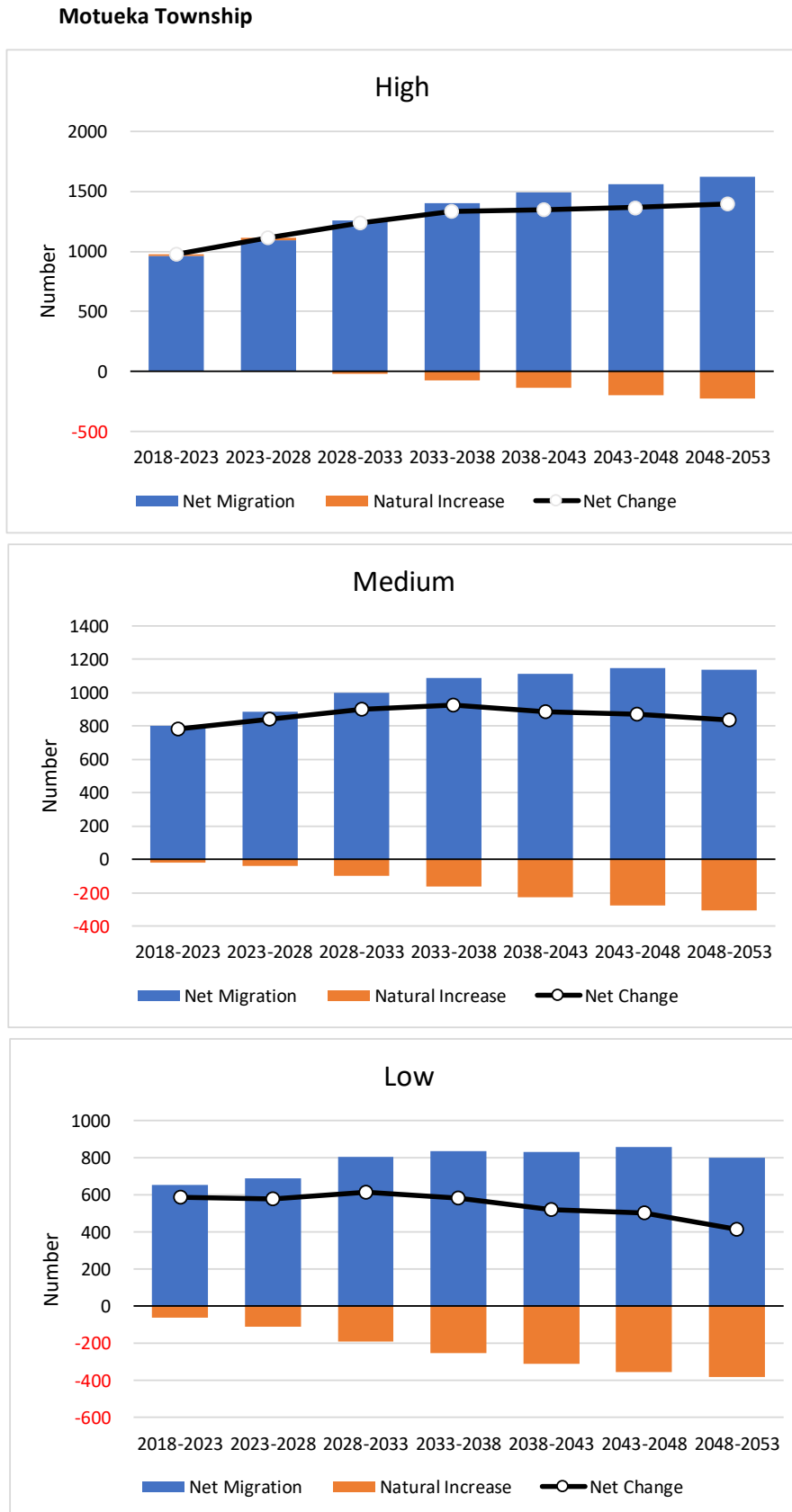
Note different scales on Y-axis

Table 4-12: Projected components of change and net change (numbers per five year period), and contribution (%) of each component to net change, by projection variant, Motueka Township

<b>Motueka Township</b>					
<b>Period</b>	<b>Net Migration</b>	<b>Natural Increase</b>	<b>Net Change</b>	<b>Cont. of Migration (%)</b>	<b>Cont. of Natural Increase (%)</b>
<b>High</b>					
2018-2023	964	15	979	98.5	1.5
2023-2028	1096	19	1115	98.3	1.7
2028-2033	1255	-18	1237	101.5	-1.5
2033-2038	1403	-71	1332	105.4	-5.4
2038-2043	1488	-139	1350	110.3	-10.3
2043-2048	1562	-198	1364	114.5	-14.5
2048-2053	1619	-222	1397	115.9	-15.9
<b>Medium</b>					
2018-2023	801	-19	782	102.4	-2.4
2023-2028	884	-42	842	104.9	-4.9
2028-2033	999	-101	899	111.2	-11.2
2033-2038	1087	-161	925	117.4	-17.4
2038-2043	1112	-225	886	125.4	-25.4
2043-2048	1149	-279	870	132.0	-32.0
2048-2053	1139	-305	834	136.5	-36.5
<b>Low</b>					
2018-2023	651	-64	587	110.9	-10.9
2023-2028	690	-111	578	119.3	-19.3
2028-2033	803	-190	614	131.0	-31.0
2033-2038	835	-254	581	143.7	-43.7
2038-2043	831	-311	520	159.8	-59.8
2043-2048	857	-356	501	171.2	-71.2
2048-2053	798	-383	415	192.2	-92.2



Figure 4-6: Projected components of change and net change (numbers per five year period) by projection variant, Motueka Township



Note different scales on Y-axis

## Broad Age Groups

Table 4-13: Projected numbers by broad age group, ageing indices and projection variant, Golden Bay Ward

Golden Bay Ward									Change (%)
	2018	2023	2028	2033	2038	2043	2048	2053	2018-2053
<b>HIGH</b>									
0-14	911	889	913	982	1036	1065	1070	1064	16.8
15-24	426	503	486	412	447	500	520	540	26.6
25-54	1830	1758	1727	1772	1807	1843	1873	1919	4.9
55-64	999	990	979	931	841	798	828	848	-15.1
65-74	800	998	1078	1097	1095	1057	963	910	13.8
75+	411	542	755	973	1141	1251	1325	1334	224.2
<b>Total</b>	<b>5379</b>	<b>5680</b>	<b>5939</b>	<b>6167</b>	<b>6367</b>	<b>6513</b>	<b>6578</b>	<b>6616</b>	<b>23.0</b>
65+	1211	1540	1833	2070	2236	2307	2287	2244	85.3
65+ (%)	22.5	27.1	30.9	33.6	35.1	35.4	34.8	33.9	50.6
<b>MEDIUM</b>									
0-14	911	857	834	840	831	805	767	728	-20.2
15-24	426	471	442	364	386	396	384	375	-12.0
25-54	1830	1730	1653	1642	1613	1587	1540	1506	-17.7
55-64	999	974	945	887	791	744	759	753	-24.6
65-74	800	982	1041	1040	1014	964	864	811	1.3
75+	411	531	728	915	1049	1119	1158	1138	176.8
<b>Total</b>	<b>5379</b>	<b>5545</b>	<b>5643</b>	<b>5688</b>	<b>5684</b>	<b>5614</b>	<b>5472</b>	<b>5311</b>	<b>-1.3</b>
65+	1211	1513	1769	1955	2063	2083	2023	1949	60.9
65+ (%)	22.5	27.3	31.4	34.4	36.3	37.1	37.0	36.7	63.0
<b>LOW</b>									
0-14	911	826	762	715	660	599	541	488	-46.4
15-24	426	440	404	323	333	306	280	254	-40.5
25-54	1830	1702	1581	1522	1440	1367	1260	1177	-35.7
55-64	999	960	912	846	746	695	696	667	-33.2
65-74	800	966	1005	987	939	880	778	724	-9.5
75+	411	514	687	835	927	951	954	907	120.5
<b>Total</b>	<b>5379</b>	<b>5407</b>	<b>5351</b>	<b>5228</b>	<b>5045</b>	<b>4799</b>	<b>4510</b>	<b>4217</b>	<b>-21.6</b>
65+	1211	1479	1692	1822	1865	1831	1732	1631	34.7
65+ (%)	22.5	27.4	31.6	34.8	37.0	38.2	38.4	38.7	71.8
<b>Ratio 65+ years: 0-14 years</b>									
High	1.3	1.7	2.0	2.1	2.2	2.2	2.1	2.1	58.7
Medium	1.3	1.8	2.1	2.3	2.5	2.6	2.6	2.7	101.6
Low	1.3	1.8	2.2	2.5	2.8	3.1	3.2	3.3	151.3
<b>Percentage at key reproductive ages (25-49 years)</b>									
High	26.4	23.6	23.0	23.4	23.1	22.7	23.1	23.4	-11.4
Medium	26.4	23.8	23.0	23.3	22.7	22.2	22.4	22.4	-15.1
Low	26.4	24.0	23.0	23.2	22.4	21.9	21.7	21.6	-17.9

Table 4-14: Projected numbers by broad age group, ageing indices and projection variant, Lakes-Murchison Ward

Lakes-Murchison Ward									Change (%)
	2018	2023	2028	2033	2038	2043	2048	2053	2018-2053
<b>HIGH</b>									
0-14	653	670	718	780	814	834	855	884	35.4
15-24	366	354	369	341	385	431	446	453	23.6
25-54	1431	1422	1392	1466	1518	1557	1569	1569	9.7
55-64	643	666	670	613	542	552	629	701	9.0
65-74	434	547	640	676	678	627	553	564	30.0
75+	207	304	410	541	670	744	803	797	284.0
<b>Total</b>	<b>3735</b>	<b>3963</b>	<b>4200</b>	<b>4416</b>	<b>4606</b>	<b>4745</b>	<b>4854</b>	<b>4969</b>	<b>33.0</b>
65+	642	851	1050	1217	1348	1371	1356	1361	112.1
65+ (%)	17.2	21.5	25.0	27.5	29.3	28.9	27.9	27.4	59.4
<b>MEDIUM</b>									
0-14	653	650	663	676	666	649	639	636	-2.6
15-24	366	336	353	317	348	358	348	334	-8.9
25-54	1431	1396	1321	1354	1355	1347	1299	1245	-13.0
55-64	643	659	657	595	518	523	585	630	-2.1
65-74	434	536	618	641	636	580	503	512	17.8
75+	207	294	381	490	591	636	677	649	213.1
<b>Total</b>	<b>3735</b>	<b>3871</b>	<b>3993</b>	<b>4073</b>	<b>4114</b>	<b>4091</b>	<b>4051</b>	<b>4005</b>	<b>7.2</b>
65+	642	831	999	1132	1227	1216	1179	1161	80.9
65+ (%)	17.2	21.5	25.0	27.8	29.8	29.7	29.1	29.0	68.7
<b>LOW</b>									
0-14	653	631	611	584	540	499	471	451	-31.0
15-24	366	317	340	294	315	291	271	240	-34.5
25-54	1431	1370	1252	1251	1208	1164	1070	982	-31.4
55-64	643	653	645	579	497	496	545	564	-12.4
65-74	434	526	596	609	598	538	458	466	7.2
75+	207	282	346	433	506	522	550	501	141.7
<b>Total</b>	<b>3735</b>	<b>3777</b>	<b>3792</b>	<b>3751</b>	<b>3664</b>	<b>3511</b>	<b>3365</b>	<b>3202</b>	<b>-14.3</b>
65+	642	807	943	1043	1104	1060	1008	967	50.7
65+ (%)	17.2	21.4	24.9	27.8	30.1	30.2	30.0	30.2	75.7
<b>Ratio 65+ years: 0-14 years</b>									
High	1.0	1.3	1.5	1.6	1.7	1.6	1.6	1.5	56.6
Medium	1.0	1.3	1.5	1.7	1.8	1.9	1.8	1.8	85.8
Low	1.0	1.3	1.5	1.8	2.0	2.1	2.1	2.1	118.4
<b>Percentage at key reproductive ages (25-49 years)</b>									
High	30.0	28.0	27.2	27.7	27.2	26.1	25.4	25.5	-15.0
Medium	30.0	28.0	27.0	27.5	26.7	25.6	24.7	25.0	-16.7
Low	30.0	28.1	26.7	27.3	26.3	25.3	24.0	24.7	-17.6

Table 4-15: Projected numbers by broad age group, ageing indices and projection variant, Motueka Ward

Motueka Ward									Change (%)
	2018	2023	2028	2033	2038	2043	2048	2053	2018-2053
<b>HIGH</b>									
0-14	2206	2383	2615	2973	3276	3529	3754	3978	80.4
15-24	1341	1456	1523	1541	1676	1954	2170	2351	75.3
25-54	4673	4927	5205	5575	6114	6599	7065	7590	62.4
55-64	1804	1937	2106	2210	2143	2138	2424	2762	53.1
65-74	1729	1986	2283	2523	2767	2949	2940	2941	70.1
75+	1262	1650	2070	2542	3061	3558	4082	4534	259.1
<b>Total</b>	<b>13015</b>	<b>14341</b>	<b>15801</b>	<b>17365</b>	<b>19037</b>	<b>20727</b>	<b>22435</b>	<b>24157</b>	<b>85.6</b>
65+	2992	3636	4353	5065	5828	6507	7022	7475	149.9
65+ (%)	23.0	25.4	27.5	29.2	30.6	31.4	31.3	30.9	34.6
<b>MEDIUM</b>									
0-14	2206	2307	2427	2647	2815	2943	3049	3141	42.4
15-24	1341	1444	1491	1480	1546	1723	1835	1924	43.5
25-54	4673	4850	5035	5307	5739	6082	6370	6679	42.9
55-64	1804	1908	2049	2125	2015	1982	2236	2495	38.3
65-74	1729	1939	2178	2358	2550	2679	2608	2566	48.4
75+	1262	1635	2013	2413	2832	3210	3614	3933	211.6
<b>Total</b>	<b>13015</b>	<b>14081</b>	<b>15194</b>	<b>16330</b>	<b>17497</b>	<b>18620</b>	<b>19713</b>	<b>20739</b>	<b>59.3</b>
65+	2992	3574	4192	4771	5382	5889	6222	6499	117.2
65+ (%)	23.0	25.4	27.6	29.2	30.8	31.6	31.6	31.3	36.3
<b>LOW</b>									
0-14	2206	2233	2251	2348	2401	2431	2447	2444	10.8
15-24	1341	1432	1460	1420	1421	1512	1539	1557	16.1
25-54	4673	4774	4872	5054	5391	5608	5738	5867	25.5
55-64	1804	1879	1995	2047	1898	1842	2069	2255	25.0
65-74	1729	1891	2076	2204	2351	2438	2315	2243	29.7
75+	1262	1600	1915	2222	2528	2784	3070	3265	158.6
<b>Total</b>	<b>13015</b>	<b>13810</b>	<b>14569</b>	<b>15296</b>	<b>15991</b>	<b>16613</b>	<b>17179</b>	<b>17630</b>	<b>35.5</b>
65+	2992	3491	3991	4426	4880	5222	5385	5508	84.1
65+ (%)	23.0	25.3	27.4	28.9	30.5	31.4	31.3	31.2	35.9
<b>Ratio 65+ years: 0-14 years</b>									
High	1.4	1.5	1.7	1.7	1.8	1.8	1.9	1.9	38.5
Medium	1.4	1.5	1.7	1.8	1.9	2.0	2.0	2.1	52.6
Low	1.4	1.6	1.8	1.9	2.0	2.1	2.2	2.3	66.1
<b>Percentage at key reproductive ages (25-49 years)</b>									
High	29.3	27.6	27.0	27.1	27.1	26.2	25.9	25.8	-11.9
Medium	29.3	27.6	27.1	27.4	27.7	26.8	26.5	26.3	-10.1
Low	29.3	27.6	27.3	27.9	28.3	27.6	27.4	27.1	-7.6

Table 4-16: Projected numbers by broad age group, ageing indices and projection variant, Moutere-Waimea Ward

Moutere-Waimea Ward									Change (%)
	2018	2023	2028	2033	2038	2043	2048	2053	2018-2053
<b>HIGH</b>									
0-14	2959	3109	3310	3707	4162	4629	5095	5553	87.7
15-24	1335	1539	1681	1627	1695	2013	2185	2498	87.1
25-54	5386	5593	5771	6219	6793	7375	8067	8714	61.8
55-64	2490	2830	3094	3194	3088	3078	3291	3637	46.0
65-74	1892	2437	2962	3452	3830	4035	3975	3952	108.9
75+	785	1170	1749	2350	3051	3725	4398	4898	524.2
<b>Total</b>	<b>14848</b>	<b>16677</b>	<b>18567</b>	<b>20550</b>	<b>22619</b>	<b>24854</b>	<b>27012</b>	<b>29252</b>	<b>97.0</b>
65+	2677	3606	4710	5802	6881	7759	8374	8851	230.6
65+ (%)	18.0	21.6	25.4	28.2	30.4	31.2	31.0	30.3	67.8
<b>MEDIUM</b>									
0-14	2959	2965	2945	3058	3189	3316	3429	3517	18.8
15-24	1335	1434	1581	1434	1401	1571	1520	1700	27.4
25-54	5386	5437	5371	5584	5845	6060	6324	6427	19.3
55-64	2490	2783	2986	3010	2823	2739	2852	3047	22.3
65-74	1892	2388	2834	3237	3512	3605	3437	3326	75.7
75+	785	1151	1688	2206	2791	3319	3826	4132	426.6
<b>Total</b>	<b>14848</b>	<b>16159</b>	<b>17405</b>	<b>18529</b>	<b>19562</b>	<b>20611</b>	<b>21388</b>	<b>22149</b>	<b>49.2</b>
65+	2677	3538	4522	5443	6304	6925	7264	7458	178.6
65+ (%)	18.0	21.9	26.0	29.4	32.2	33.6	34.0	33.7	86.8
<b>LOW</b>									
0-14	2959	2826	2609	2497	2406	2329	2253	2166	-26.8
15-24	1335	1330	1509	1239	1160	1192	1024	1154	-13.6
25-54	5386	5284	4984	5014	5004	4963	4913	4677	-13.2
55-64	2490	2739	2882	2838	2579	2434	2463	2538	1.9
65-74	1892	2338	2709	3034	3220	3219	2964	2790	47.4
75+	785	1119	1596	2011	2461	2831	3163	3277	317.6
<b>Total</b>	<b>14848</b>	<b>15635</b>	<b>16289</b>	<b>16633</b>	<b>16830</b>	<b>16969</b>	<b>16780</b>	<b>16602</b>	<b>11.8</b>
65+	2677	3457	4305	5045	5681	6050	6127	6067	126.6
65+ (%)	18.0	22.1	26.4	30.3	33.8	35.7	36.5	36.5	102.7
<b>Ratio 65+ years: 0-14 years</b>									
High	0.9	1.2	1.4	1.6	1.7	1.7	1.6	1.6	76.2
Medium	0.9	1.2	1.5	1.8	2.0	2.1	2.1	2.1	134.4
Low	0.9	1.2	1.7	2.0	2.4	2.6	2.7	2.8	209.6
<b>Percentage at key reproductive ages (25-49 years)</b>									
High	27.8	25.1	24.0	24.1	24.2	23.7	23.8	23.7	-15.0
Medium	27.8	25.1	23.7	23.8	23.8	23.1	23.1	22.7	-18.4
Low	27.8	25.1	23.3	23.7	23.4	22.6	22.4	21.8	-21.7

Table 4-17: Projected numbers by broad age group, ageing indices and projection variant, Richmond Ward

Richmond Ward									Change (%)
	2018	2023	2028	2033	2038	2043	2048	2053	2018-2053
<b>HIGH</b>									
0-14	3131	3182	3351	3694	4007	4228	4371	4493	43.5
15-24	2190	2330	2363	2268	2328	2613	2865	3065	39.9
25-54	5974	6096	6207	6596	7045	7478	7970	8394	40.5
55-64	2274	2606	2874	2783	2559	2522	2675	3005	32.2
65-74	2086	2476	2826	3264	3661	3690	3492	3397	62.8
75+	1691	2147	2834	3588	4424	5371	6365	7087	319.2
<b>Total</b>	<b>17345</b>	<b>18837</b>	<b>20456</b>	<b>22192</b>	<b>24025</b>	<b>25902</b>	<b>27738</b>	<b>29441</b>	<b>69.7</b>
65+	3777	4624	5661	6852	8085	9061	9858	10484	177.6
65+ (%)	21.8	24.5	27.7	30.9	33.7	35.0	35.5	35.6	63.5
<b>MEDIUM</b>									
0-14	3131	3063	3080	3235	3359	3407	3398	3366	7.5
15-24	2190	2242	2259	2091	2066	2212	2309	2365	8.0
25-54	5974	5991	5921	6166	6432	6665	6897	6990	17.0
55-64	2274	2593	2844	2705	2422	2335	2442	2717	19.5
65-74	2086	2422	2704	3096	3445	3398	3128	2976	42.7
75+	1691	2122	2752	3399	4095	4885	5703	6210	267.3
<b>Total</b>	<b>17345</b>	<b>18434</b>	<b>19559</b>	<b>20692</b>	<b>21819</b>	<b>22903</b>	<b>23876</b>	<b>24625</b>	<b>42.0</b>
65+	3777	4544	5456	6495	7540	8284	8831	9186	143.2
65+ (%)	21.8	24.7	27.9	31.4	34.6	36.2	37.0	37.3	71.3
<b>LOW</b>									
0-14	3131	2947	2826	2822	2795	2718	2607	2484	-20.7
15-24	2190	2155	2168	1920	1829	1856	1843	1800	-17.8
25-54	5974	5890	5642	5770	5869	5940	5954	5793	-3.0
55-64	2274	2582	2818	2635	2294	2165	2233	2464	8.4
65-74	2086	2368	2585	2939	3248	3133	2799	2606	24.9
75+	1691	2071	2613	3121	3642	4245	4854	5117	202.6
<b>Total</b>	<b>17345</b>	<b>18013</b>	<b>18651</b>	<b>19206</b>	<b>19676</b>	<b>20057</b>	<b>20290</b>	<b>20264</b>	<b>16.8</b>
65+	3777	4438	5198	6060	6889	7379	7653	7724	104.5
65+ (%)	21.8	24.6	27.9	31.6	35.0	36.8	37.7	38.1	75.0
<b>Ratio 65+ years: 0-14 years</b>									
High	1.2	1.5	1.7	1.9	2.0	2.1	2.3	2.3	93.4
Medium	1.2	1.5	1.8	2.0	2.2	2.4	2.6	2.7	126.2
Low	1.2	1.5	1.8	2.1	2.5	2.7	2.9	3.1	157.8
<b>Percentage at key reproductive ages (25-49 years)</b>									
High	26.6	24.7	24.3	24.3	24.3	23.6	23.1	22.7	-14.6
Medium	26.6	24.7	24.2	24.3	24.3	23.7	23.0	22.4	-15.6
Low	26.6	24.8	24.1	24.5	24.6	23.9	23.0	22.5	-15.4

Table 4-18: Projected numbers by broad age group, ageing indices and projection variant, Motueka Township

Motueka Township									Change (%)
	2018	2023	2028	2033	2038	2043	2048	2053	2018-2053
<b>HIGH</b>									
0-14	1394	1512	1686	1962	2201	2396	2568	2744	96.9
15-24	847	944	968	968	1058	1272	1445	1586	87.2
25-54	2781	3005	3216	3514	3926	4285	4596	4991	79.5
55-64	1041	1080	1206	1297	1241	1237	1458	1707	64.0
65-74	1193	1397	1596	1737	1927	2096	2125	2133	78.7
75+	1014	1324	1712	2151	2619	3054	3535	3999	294.3
<b>Total</b>	<b>8270</b>	<b>9261</b>	<b>10383</b>	<b>11629</b>	<b>12971</b>	<b>14340</b>	<b>15727</b>	<b>17159</b>	<b>107.5</b>
65+	2207	2720	3308	3887	4546	5150	5659	6131	177.8
65+ (%)	26.7	29.4	31.9	33.4	35.0	35.9	36.0	35.7	33.9
<b>MEDIUM</b>									
0-14	1394	1462	1561	1737	1872	1969	2049	2123	52.3
15-24	847	935	943	926	975	1118	1212	1281	51.2
25-54	2781	2956	3107	3340	3674	3934	4116	4358	56.7
55-64	1041	1056	1163	1235	1152	1135	1343	1538	47.8
65-74	1193	1341	1480	1561	1700	1818	1793	1767	48.1
75+	1014	1306	1640	1985	2327	2614	2945	3246	220.1
<b>Total</b>	<b>8270</b>	<b>9057</b>	<b>9895</b>	<b>10783</b>	<b>11699</b>	<b>12588</b>	<b>13459</b>	<b>14313</b>	<b>73.1</b>
65+	2207	2647	3121	3546	4027	4432	4738	5013	127.1
65+ (%)	26.7	29.2	31.5	32.9	34.4	35.2	35.2	35.0	31.2
<b>LOW</b>									
0-14	1394	1415	1445	1532	1580	1602	1614	1617	16.0
15-24	847	926	918	887	896	977	1008	1021	20.5
25-54	2781	2909	3003	3176	3440	3613	3682	3799	36.6
55-64	1041	1034	1122	1178	1071	1045	1243	1388	33.3
65-74	1193	1285	1370	1400	1501	1582	1514	1469	23.1
75+	1014	1273	1536	1776	1992	2147	2358	2532	149.7
<b>Total</b>	<b>8270</b>	<b>8841</b>	<b>9394</b>	<b>9948</b>	<b>10480</b>	<b>10966</b>	<b>11418</b>	<b>11825</b>	<b>43.0</b>
65+	2207	2558	2906	3176	3493	3729	3872	4001	81.2
65+ (%)	26.7	28.9	30.9	31.9	33.3	34.0	33.9	33.8	26.8
<b>Ratio 65+ years: 0-14 years</b>									
High	1.6	1.8	2.0	2.0	2.1	2.1	2.2	2.2	41.1
Medium	1.6	1.8	2.0	2.0	2.2	2.3	2.3	2.4	49.1
Low	1.6	1.8	2.0	2.1	2.2	2.3	2.4	2.5	56.2
<b>Percentage at key reproductive ages (25-49 years)</b>									
High	28.4	26.4	26.1	26.2	26.3	25.0	24.6	24.3	-14.5
Medium	28.4	26.5	26.4	26.9	27.2	26.0	25.6	25.3	-11.1
Low	28.4	26.7	26.9	27.7	28.3	27.2	27.0	26.4	-6.9

## Age-Sex Structures

Figure 4-7: Projected percentage in each age group by projection variant, Golden Bay Ward 2018 (shaded bars) and 2053 (unshaded bars)

### Golden Bay Ward

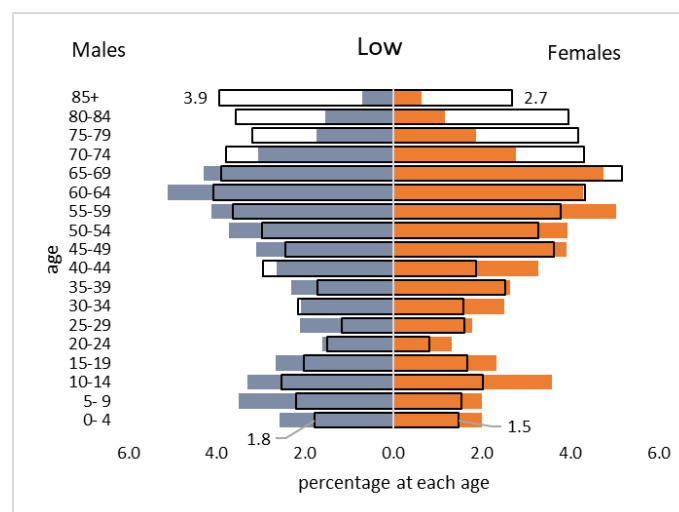
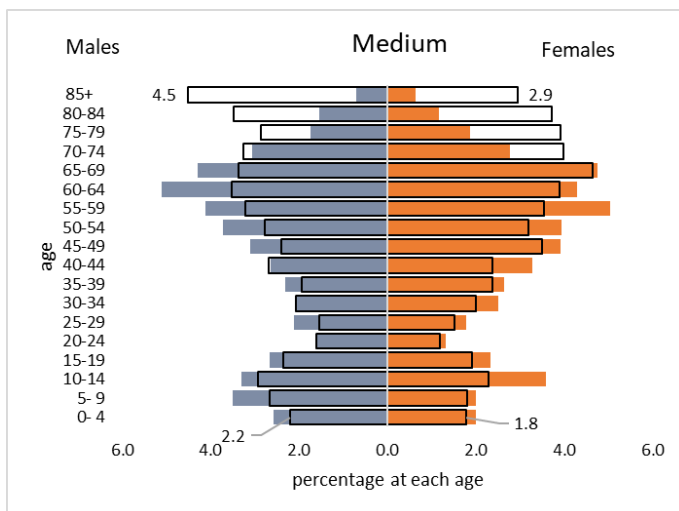
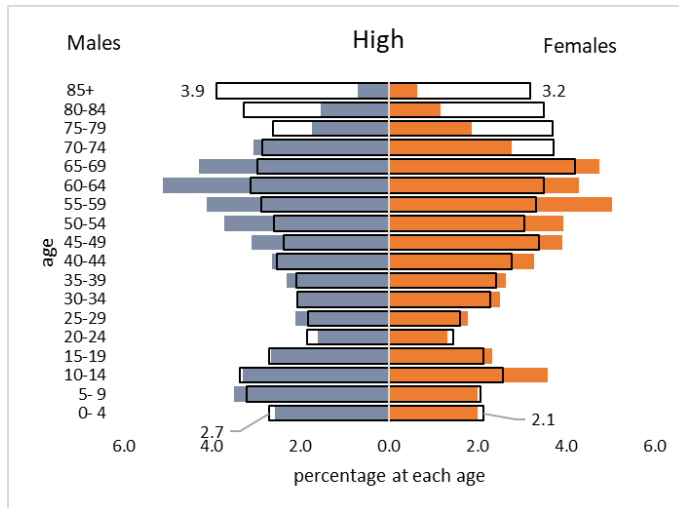




Figure 4-8: Projected percentage in each age group by projection variant, Lakes-Murchison Ward 2018 (shaded bars) and 2053 (unshaded bars)

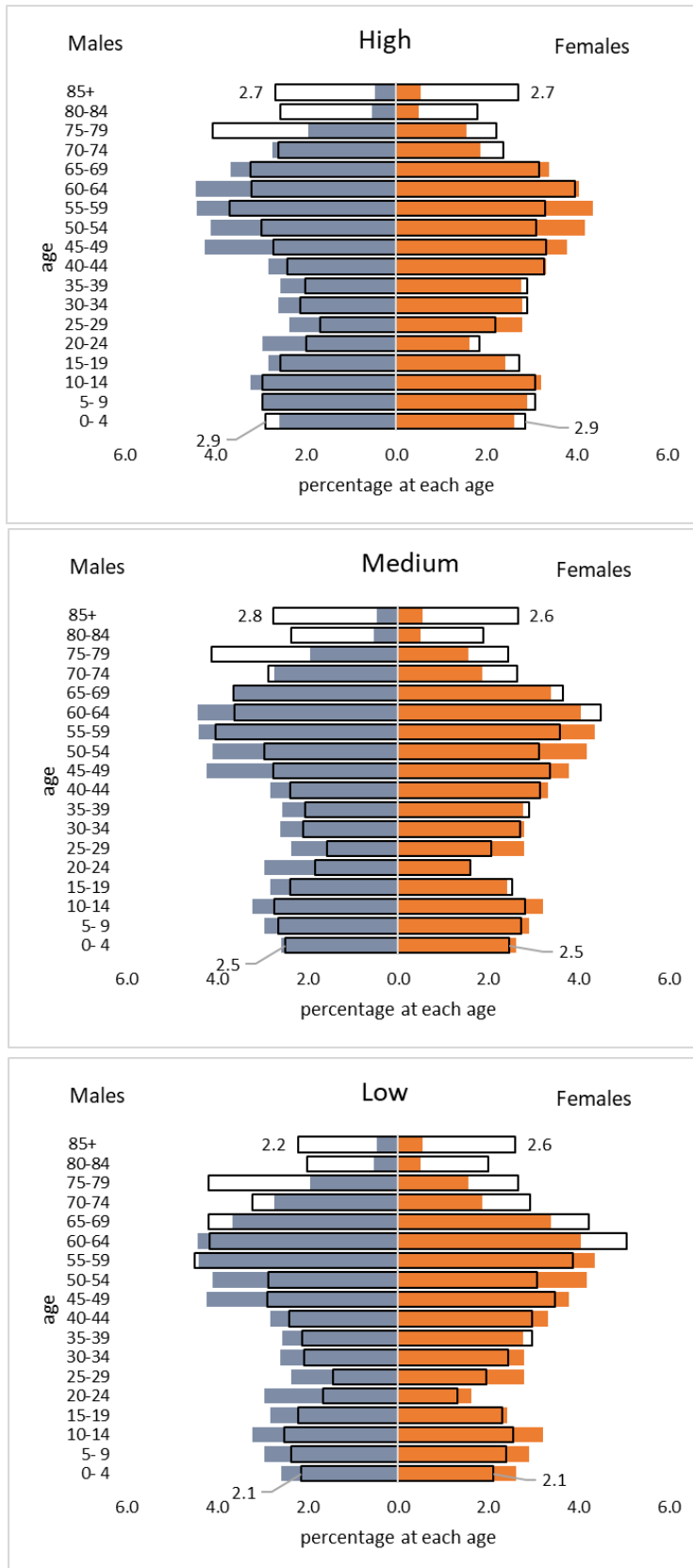


Figure 4-9: Projected percentage in each age group by projection variant, Motueka Ward 2018 (shaded bars) and 2053 (unshaded bars)

**Motueka Ward**

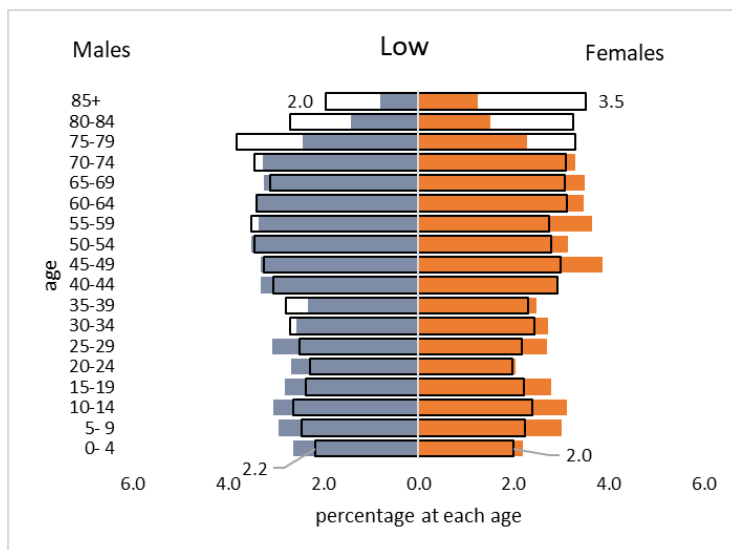
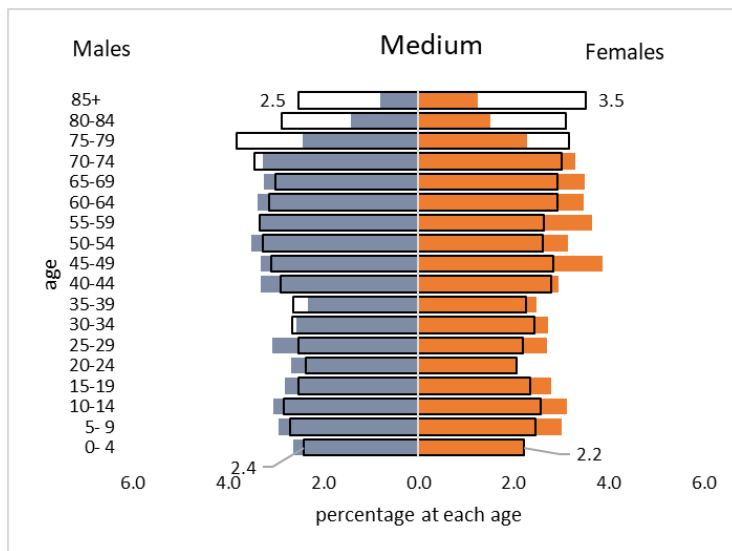
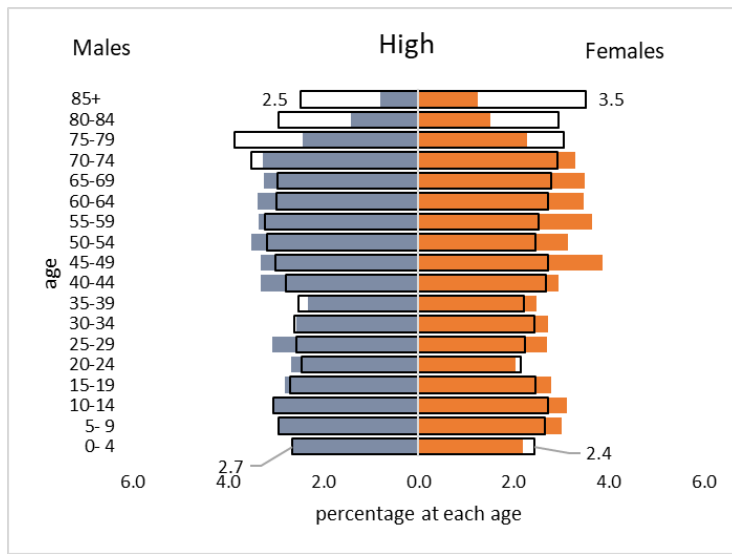


Figure 4-10: Projected percentage in each age group by projection variant, Moutere-Waimea Ward 2018 (shaded bars) and 2053 (unshaded bars)

Moutere-Waimea Ward

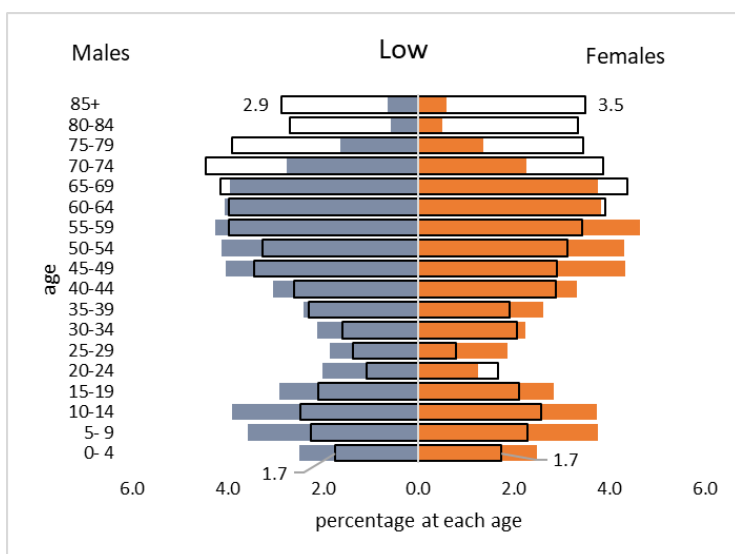
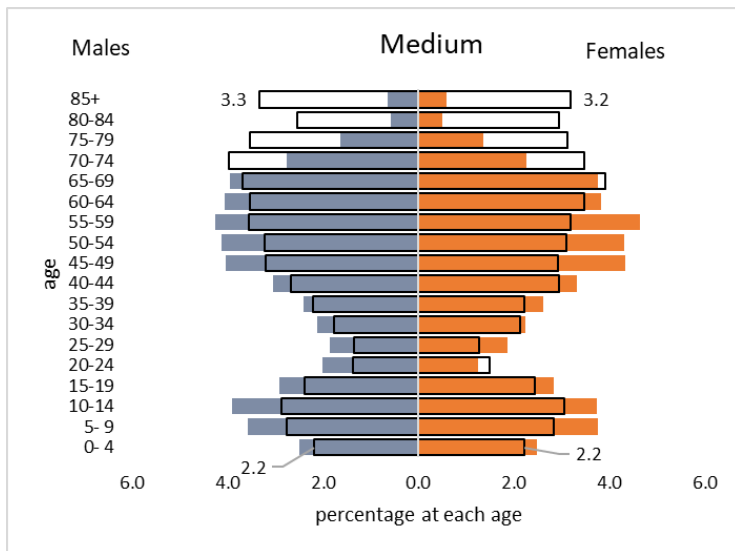
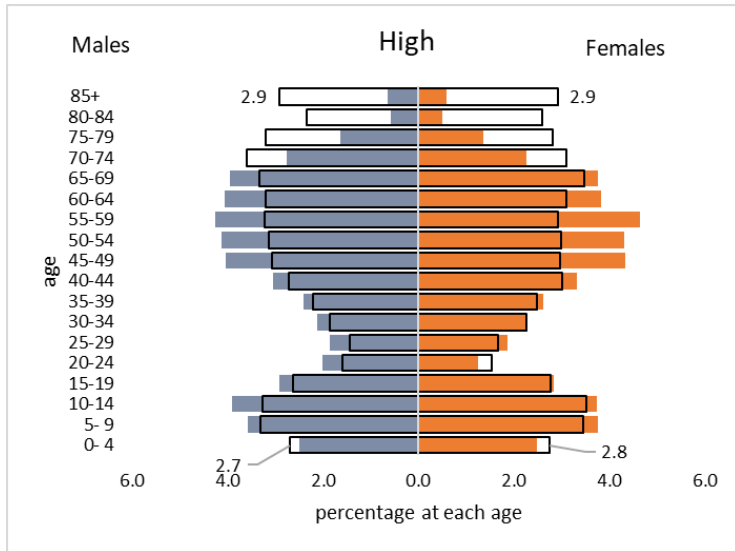


Figure 4-11: Projected percentage in each age group by projection variant, Richmond Ward 2018 (shaded bars) and 2053 (unshaded bars)

**Richmond Ward**

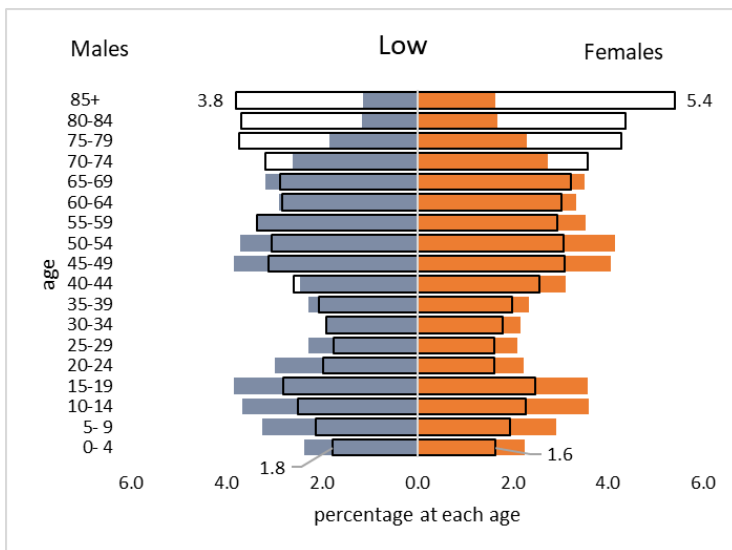
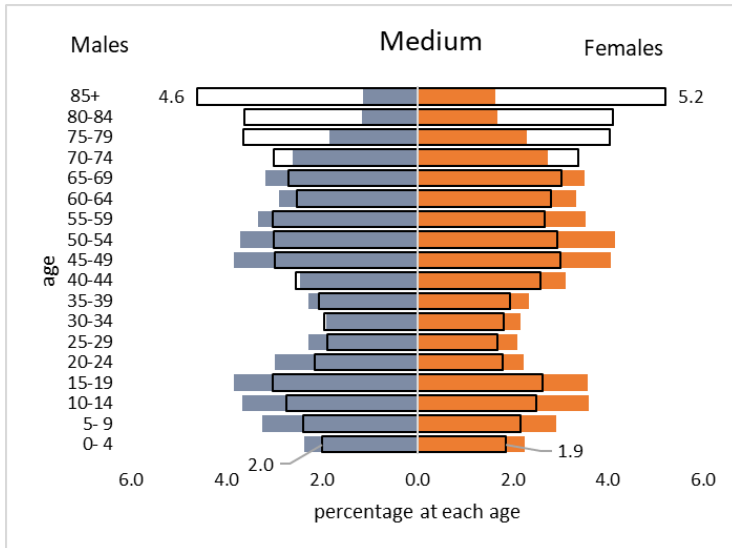
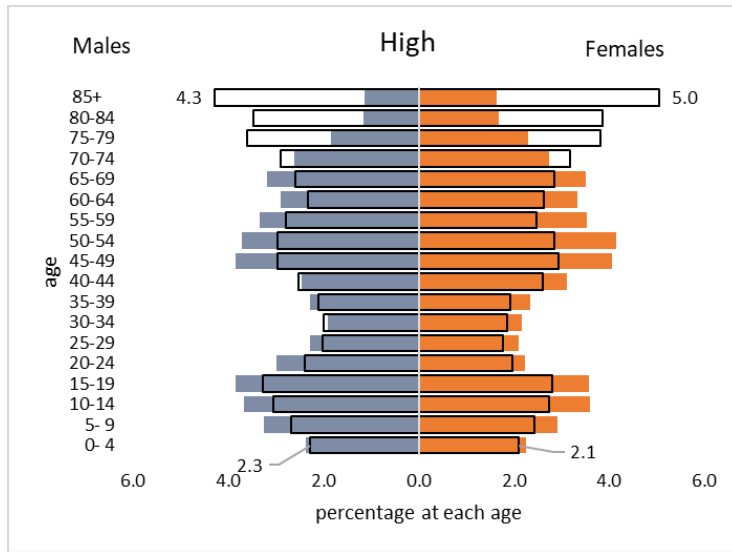
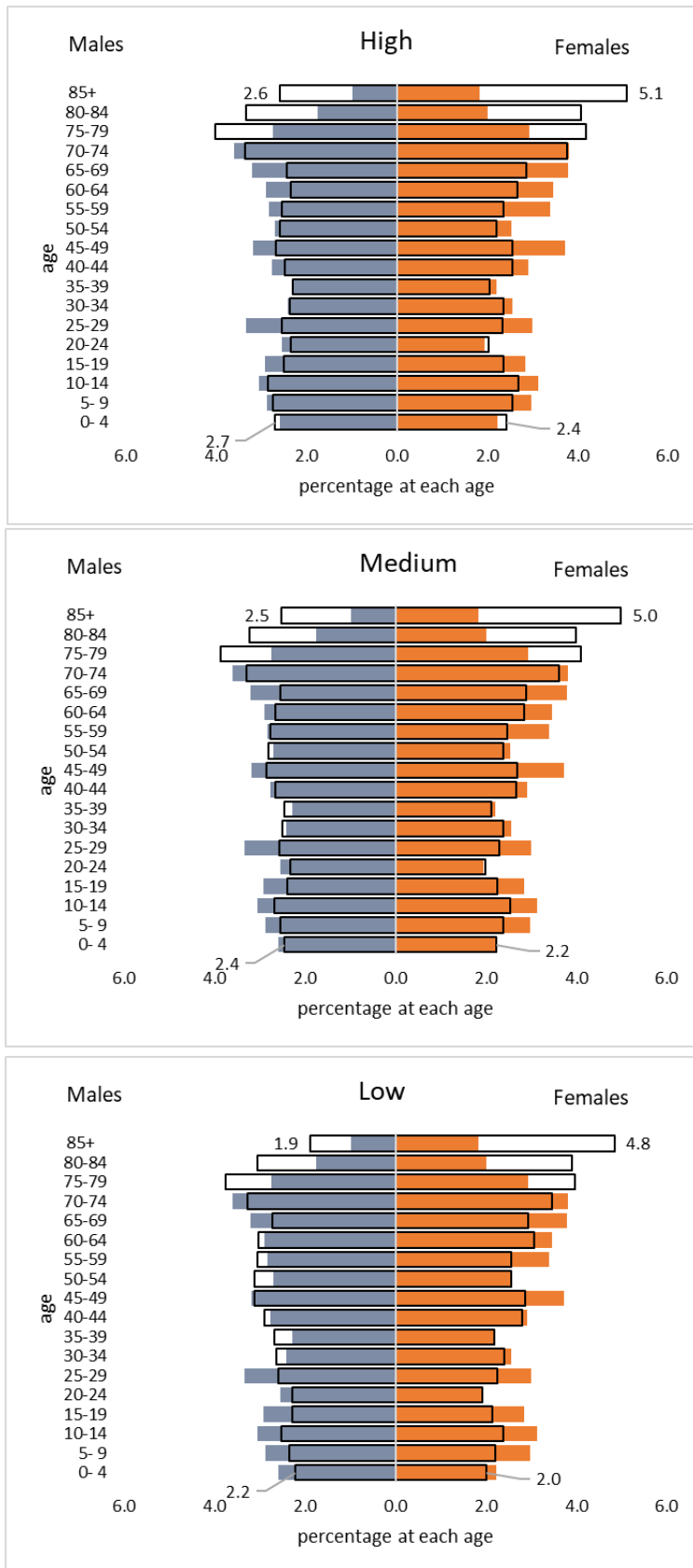


Figure 4-12: Projected percentage in each age group by projection variant, Motueka Township 2018 (shaded bars) and 2053 (unshaded bars)

**Motueka Township**



## Appendices

### Appendix A: Geographic concordance

TA Ward	T/SA2	Township
<b>Tasman District</b>	<b>Tasman District</b>	
Golden Bay	Golden Bay/Mohua	
Golden Bay	Inlets Golden Bay	
Golden Bay	Pohara-Abel Tasman	
Golden Bay	Oceanic Tasman Region	
Golden Bay	Takaka	
Lakes-Murchison	Murchison-Nelson Lakes	
Lakes-Murchison	Golden Downs	
Lakes-Murchison	Wakefield (6%)	
Lakes-Murchison	Wakefield Rural (25%)	
Motueka	Inlets Motueka	
Motueka	Takaka Hills	
Motueka	Kaiteriteri-Riwaka	
Motueka	Lower Moutere	
Motueka	Motueka North	Motueka Township
Motueka	Motueka West	
Motueka	Motueka East	
Moutere-Waimea	Upper Moutere	
Moutere-Waimea	Moutere Hills	
Moutere-Waimea	Ruby Bay-Mapua	
Moutere-Waimea	Inlet Waimea West	
Moutere-Waimea	Waimea West	
Moutere-Waimea	Wakefield (94%)	
Moutere-Waimea	Wakefield Rural (75%)	
Moutere-Waimea	Brightwater	
Richmond	Islands Tasman District	
Richmond	Appleby	
Richmond	Richmond West (Tasman District)	
Richmond	Hope	
Richmond	Richmond Central (Tasman District)	
Richmond	Ben Cooper Park	
Richmond	Richmond South (Tasman District)	
Richmond	Wilkes Park	
Richmond	Templemore	
Richmond	Easby Park	
Richmond	Fairose	
Richmond	Aniseed Valley	

Appendix B: Base Population by Age and Sex (Customised ERP June 2018) for Tasman District Wards and Motueka Township.

	Golden Bay Ward			Lakes-Murchison Ward			Motueka Ward		
	Male	Female	TOTAL	Male	Female	TOTAL	Male	Female	TOTAL
0-4	138	108	247	96	98	194	341	285	627
5-9	188	108	295	110	108	219	383	393	776
10-14	177	193	370	120	120	240	398	407	804
15-19	143	126	269	105	91	196	366	362	728
20-24	87	71	158	110	60	171	347	266	613
25-29	113	96	210	88	104	192	399	352	751
30-34	112	135	247	97	105	202	333	355	688
35-39	124	142	266	96	103	199	303	322	625
40-44	143	176	319	105	124	229	430	383	813
45-49	167	211	378	158	142	300	431	504	934
50-54	200	212	412	153	156	310	456	408	864
55-59	222	272	494	165	162	327	435	476	911
60-64	275	231	506	166	151	317	440	453	893
65-69	231	256	487	137	126	263	422	455	877
70-74	164	149	313	102	70	171	424	429	852
75-79	93	101	194	72	58	131	315	298	613
80-84	83	62	145	20	19	39	185	197	381
85+	38	35	73	17	20	38	105	163	268
<b>TOTAL (Summed)</b>	<b>2698</b>	<b>2683</b>	<b>5381</b>	<b>1919</b>	<b>1818</b>	<b>3737</b>	<b>6512</b>	<b>6509</b>	<b>13020</b>
Compared with CURP*	103.8	102.1	103.0	104.2	105.0	104.6	103.5	102.5	103.0
Compared with ERP**	101.0	98.6	100.0	101.9	100.9	101.5	100.8	98.9	100.0

	Moutere-Waimea Ward			Richmond Ward			Motueka Township		
	Male	Female	TOTAL	Male	Female	TOTAL	Male	Female	TOTAL
0-4	397	362	759	411	392	802	214	185	399
5-9	528	538	1066	561	505	1066	237	246	483
10-14	589	576	1165	637	627	1264	253	259	512
15-19	463	426	888	666	621	1287	241	235	476
20-24	292	205	497	516	388	904	210	161	371
25-29	246	290	536	396	364	760	275	249	524
30-34	287	328	615	330	377	707	200	212	412
35-39	334	408	743	395	408	803	188	184	372
40-44	520	483	1004	427	542	969	229	242	471
45-49	607	653	1260	667	706	1373	263	308	571
50-54	642	641	1283	644	719	1363	222	210	432
55-59	636	681	1316	577	615	1192	233	282	515
60-64	643	575	1218	503	580	1083	240	286	526
65-69	618	554	1173	551	609	1160	265	315	580
70-74	404	335	740	453	475	927	298	316	614
75-79	227	191	418	318	399	716	227	243	470
80-84	86	75	161	201	291	492	146	167	312
85+	78	88	167	198	285	483	81	151	232
<b>TOTAL (Summed)</b>	<b>7599</b>	<b>7410</b>	<b>15009</b>	<b>8452</b>	<b>8900</b>	<b>17352</b>	<b>4023</b>	<b>4251</b>	<b>8273</b>
Compared with CURP*	106.7	105.1	105.9	103.9	103.4	103.7	103.5	103.0	103.2
Compared with ERP**	103.7	101.7	102.7	101.1	100.1	100.6	100.8	99.5	100.2

\*Stats NZ 2019a, \*\*Stats NZ 2019b

Appendix C: Summary of projected population and major assumptions by projection variant, Tasman District (Raw numbers prior to constraining)\*

<b>Tasman</b>		<b>Annual</b>	<b>Average</b>	<b>TFR</b>	<b>Male</b>	<b>Female</b>	<b>Annual</b>	<b>Annual</b>	<b>Annual</b>	<b>Annual</b>	<b>CBR</b>	<b>CDR</b>	<b>%65+ Yrs</b>
<b>MEDIUM VARIANT</b>	<b>Population</b>	<b>Growth Rate %</b>	<b>Annual Change</b>	<b>e0</b>	<b>e0</b>	<b>Net Migration</b>	<b>Births</b>	<b>Deaths</b>	<b>Natural Increase</b>				
<b>Year</b>	<b>across previous 5-year period</b>					<b>(incl. deaths)</b>	<b>across previous 5-year period</b>						
2018	54,323			2.00	81.6	85.0							20.8
2023	58,090	1.35	753	1.98	82.8	86.1	699	509	455	55	9.1	8.1	24.1
2028	61,794	1.24	741	1.96	83.8	87.1	729	531	519	12	8.9	8.7	27.5
2033	65,312	1.11	704	1.94	84.8	87.9	761	549	606	-57	8.6	9.5	30.4
2038	68,676	1.01	673	1.93	85.7	88.7	817	559	704	-145	8.3	10.5	32.9
2043	71,839	0.90	633	1.93	86.6	89.4	860	562	789	-227	8.0	11.2	34.1
2048	74,501	0.73	532	1.93	87.5	90.1	839	563	870	-307	7.7	11.9	34.3
2053	76,829	0.62	466	1.93	88.2	90.6	829	571	934	-363	7.5	12.3	34.1

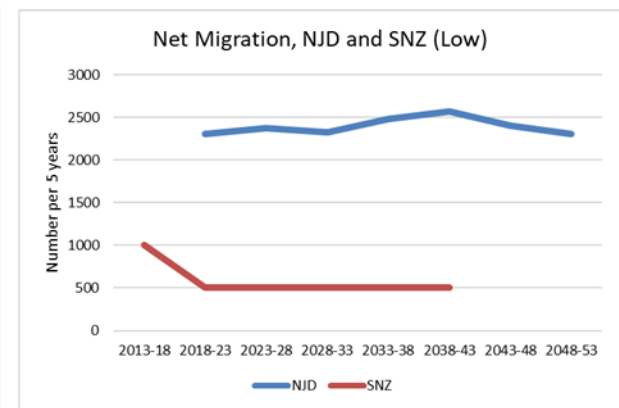
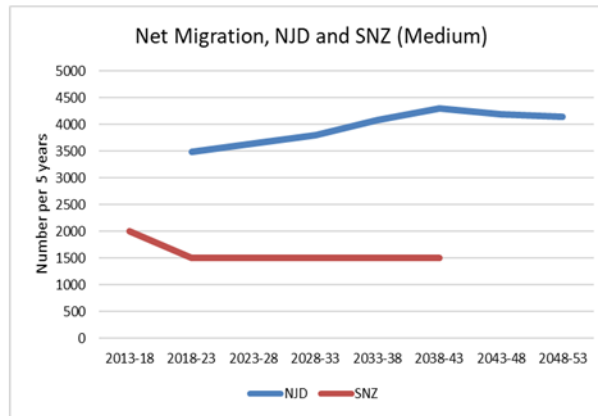
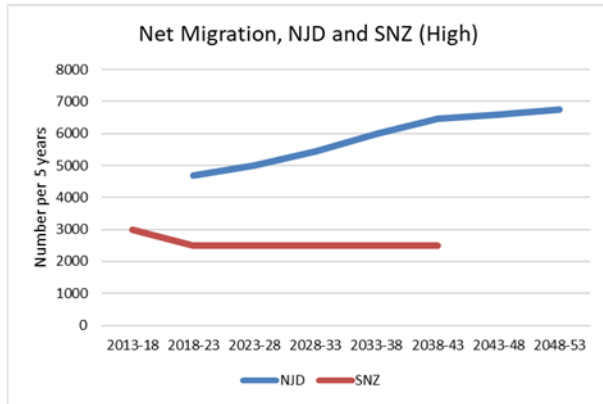
<b>Tasman</b>		<b>Annual</b>	<b>Average</b>	<b>TFR</b>	<b>Male</b>	<b>Female</b>	<b>Annual</b>	<b>Annual</b>	<b>Annual</b>	<b>Annual</b>	<b>CBR</b>	<b>CDR</b>	<b>%65+ Yrs</b>
<b>HIGH VARIANT</b>	<b>Population</b>	<b>Growth Rate %</b>	<b>Annual Change</b>	<b>e0</b>	<b>e0</b>	<b>Net Migration</b>	<b>Births</b>	<b>Deaths</b>	<b>Natural Increase</b>				
<b>Year</b>	<b>across previous 5-year period</b>					<b>(incl. deaths)</b>	<b>across previous 5-year period</b>						
2018	54,323			2.07	82.0	85.4							20.8
2023	59,498	1.84	1,035	2.09	83.5	86.6	937	542	444	98	9.5	7.8	23.9
2028	64,964	1.77	1,093	2.11	84.7	87.8	1,001	597	505	92	9.6	8.1	27.0
2033	70,691	1.70	1,145	2.12	85.8	88.8	1,088	650	592	57	9.6	8.7	29.6
2038	76,654	1.63	1,193	2.12	86.8	89.7	1,199	691	698	-6	9.4	9.5	31.7
2043	82,742	1.54	1,218	2.12	87.7	90.5	1,294	722	798	-76	9.1	10.0	32.5
2048	88,618	1.38	1,175	2.12	88.5	91.2	1,320	754	899	-145	8.8	10.5	32.4
2053	94,436	1.28	1,164	2.12	89.3	91.8	1,349	801	986	-186	8.7	10.8	31.9

<b>Tasman</b>		<b>Annual</b>	<b>Average</b>	<b>TFR</b>	<b>Male</b>	<b>Female</b>	<b>Annual</b>	<b>Annual</b>	<b>Annual</b>	<b>Annual</b>	<b>CBR</b>	<b>CDR</b>	<b>%65+ Yrs</b>
<b>LOW VARIANT</b>	<b>Population</b>	<b>Growth Rate %</b>	<b>Annual Change</b>	<b>e0</b>	<b>e0</b>	<b>Net Migration</b>	<b>Births</b>	<b>Deaths</b>	<b>Natural Increase</b>				
<b>Year</b>	<b>across previous 5-year period</b>					<b>(incl. deaths)</b>	<b>across previous 5-year period</b>						
2018	54,323			1.93	81.1	84.5							20.8
2023	56,642	0.84	464	1.88	82.0	85.4	461	479	475	3	8.6	8.6	24.2
2028	58,651	0.70	402	1.81	82.9	86.2	476	471	545	-74	8.2	9.4	27.8
2033	60,114	0.49	293	1.76	83.6	86.9	466	460	633	-173	7.7	10.7	31.0
2038	61,206	0.36	218	1.74	84.3	87.6	497	447	726	-279	7.4	12.0	33.8
2043	61,949	0.24	149	1.74	85.0	88.2	514	432	797	-365	7.0	12.9	35.2
2048	62,124	0.06	35	1.74	85.6	88.8	480	415	860	-445	6.7	13.9	35.7
2053	61,915	-0.07	-42	1.74	86.3	89.2	460	400	902	-502	6.4	14.5	35.8

\*Population, migration, and natural increase numbers were constrained to the total for Tasman District

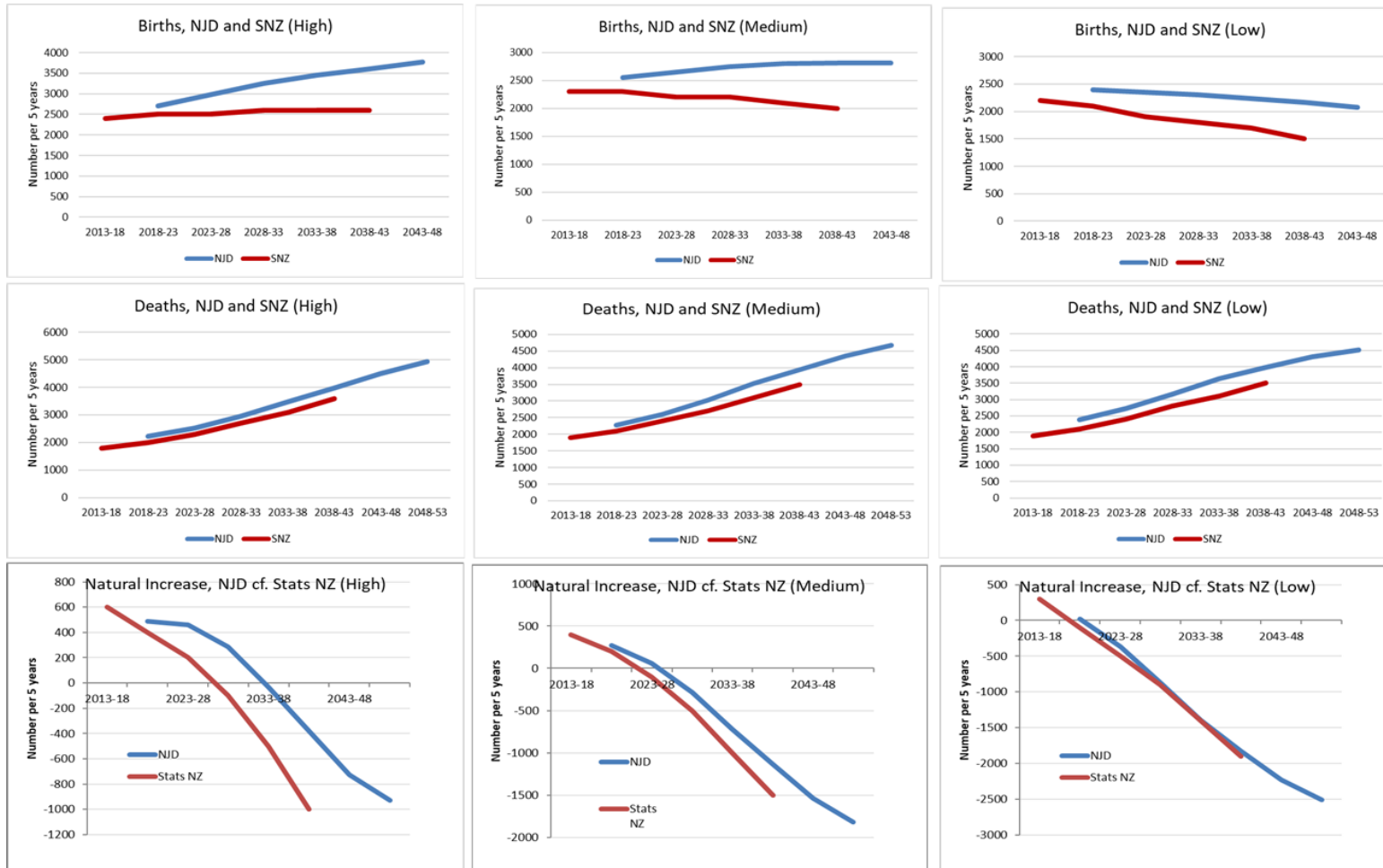


Appendix D: Projected net migration for the Tasman District (2018-2053) and comparison with Statistics New Zealand (2013-2048), by projection variant



Note different scales on Y-axis

Appendix E: Projected births, deaths and natural increase for the Tasman District (2018-2053) and comparison with Statistics New Zealand (2013-2048), by projection variant



Note different scales on Y-axis

Appendix F1: Projected numbers by five-year age group and projection variant, Tasman District

Tasman District								
	2018	2023	2028	2033	2038	2043	2048	2053
<b>HIGH</b>								
0-4	2638	3137	3491	3816	4077	4272	4464	4730
5-9	3388	3250	3725	4165	4570	4905	5161	5399
10-14	3816	3828	3691	4149	4642	5103	5491	5792
15-19	3355	3627	3624	3488	3954	4422	4857	5221
20-24	2356	2608	2786	2727	2614	3119	3424	3764
25-29	2473	2499	2744	2953	2908	2790	3285	3621
30-34	2503	3025	3166	3437	3714	3733	3619	4087
35-39	2644	2886	3444	3670	3978	4297	4363	4260
40-44	3294	3179	3403	3998	4321	4679	5061	5193
45-49	4191	3705	3546	3755	4372	4763	5170	5590
50-54	4178	4533	4089	3895	4088	4723	5173	5621
55-59	4224	4452	4830	4428	4209	4389	5038	5538
60-64	3965	4551	4856	5272	4929	4684	4842	5506
65-69	3929	4502	5193	5623	6120	5879	5608	5726
70-74	3055	3980	4633	5395	5888	6439	6270	6014
75-79	2069	2848	3772	4459	5250	5789	6375	6268
80-84	1232	1699	2394	3235	3885	4649	5187	5775
85+	1013	1189	1576	2224	3132	4105	5229	6330
<b>Total</b>	<b>54323</b>	<b>59498</b>	<b>64964</b>	<b>70691</b>	<b>76654</b>	<b>82742</b>	<b>88618</b>	<b>94436</b>
<b>MEDIUM</b>								
0-4	2638	2899	3041	3153	3220	3244	3253	3295
5-9	3388	3147	3372	3549	3688	3776	3813	3828
10-14	3816	3754	3507	3707	3903	4061	4164	4212
15-19	3355	3580	3502	3262	3480	3661	3806	3899
20-24	2356	2422	2603	2456	2279	2570	2633	2755
25-29	2473	2474	2532	2729	2592	2407	2686	2765
30-34	2503	2932	3010	3079	3295	3199	2995	3236
35-39	2644	2820	3270	3406	3495	3720	3652	3441
40-44	3294	3087	3236	3705	3905	4019	4263	4230
45-49	4191	3632	3381	3510	3991	4236	4379	4631
50-54	4178	4466	3938	3654	3763	4252	4535	4701
55-59	4224	4392	4695	4200	3891	3983	4478	4794
60-64	3965	4476	4701	5029	4579	4242	4309	4809
65-69	3929	4383	4963	5277	5657	5282	4908	4930
70-74	3055	3927	4442	5069	5426	5842	5524	5159
75-79	2069	2826	3685	4226	4870	5262	5704	5445
80-84	1232	1688	2352	3122	3628	4245	4638	5081
85+	1013	1187	1563	2179	3014	3840	4760	5617
<b>Total</b>	<b>54323</b>	<b>58090</b>	<b>61794</b>	<b>65312</b>	<b>68676</b>	<b>71839</b>	<b>74501</b>	<b>76829</b>
<b>LOW</b>								
0-4	2638	2674	2640	2583	2515	2432	2335	2252
5-9	3388	3045	3041	3007	2945	2870	2779	2670
10-14	3816	3681	3327	3295	3258	3194	3114	3017
15-19	3355	3534	3383	3044	3041	3005	2944	2869
20-24	2356	2237	2452	2204	1989	2090	2004	1986
25-29	2473	2449	2323	2543	2303	2078	2170	2088
30-34	2503	2838	2863	2737	2945	2736	2479	2532
35-39	2644	2755	3102	3162	3046	3240	3051	2777
40-44	3294	2996	3075	3431	3530	3423	3608	3441
45-49	4191	3560	3223	3281	3641	3769	3678	3854
50-54	4178	4402	3795	3428	3466	3828	3980	3902
55-59	4224	4335	4569	3988	3599	3621	3985	4157
60-64	3965	4403	4556	4806	4261	3847	3845	4208
65-69	3929	4265	4745	4960	5242	4753	4302	4257
70-74	3055	3870	4250	4757	5001	5308	4871	4429
75-79	2069	2792	3577	3974	4486	4757	5082	4708
80-84	1232	1656	2266	2940	3295	3774	4040	4364
85+	1013	1150	1464	1975	2641	3223	3856	4403
<b>Total</b>	<b>54323</b>	<b>56642</b>	<b>58651</b>	<b>60114</b>	<b>61206</b>	<b>61949</b>	<b>62124</b>	<b>61915</b>

Appendix F2: Projected numbers by five-year age group and projection variant, Golden Bay Ward

Golden Bay Ward								
	2018	2023	2028	2033	2038	2043	2048	2053
<b>HIGH</b>								
0-4	247	280	303	319	327	327	321	321
5-9	295	273	304	329	347	356	356	350
10-14	370	336	306	334	362	382	392	393
15-19	269	309	268	246	280	299	315	321
20-24	158	194	218	166	167	201	204	218
25-29	210	180	214	242	194	188	221	228
30-34	247	273	250	278	315	280	257	288
35-39	266	279	308	290	315	353	323	298
40-44	319	288	301	330	314	337	377	351
45-49	377	322	292	304	334	318	341	381
50-54	412	415	362	328	336	366	353	374
55-59	494	478	480	430	388	390	420	411
60-64	506	512	499	502	453	409	408	437
65-69	487	557	575	574	577	532	483	475
70-74	313	441	503	523	518	525	480	436
75-79	194	264	379	431	450	449	458	417
80-84	145	172	237	348	403	436	432	447
85+	73	106	140	194	288	367	435	470
<b>Total</b>	<b>5379</b>	<b>5680</b>	<b>5939</b>	<b>6167</b>	<b>6367</b>	<b>6513</b>	<b>6578</b>	<b>6616</b>
<b>MEDIUM</b>								
0-4	247	259	261	257	248	236	221	212
5-9	295	268	278	280	276	267	254	238
10-14	370	330	295	303	306	302	292	278
15-19	269	296	250	227	241	240	236	226
20-24	158	176	193	138	145	156	148	149
25-29	210	177	192	211	158	159	171	163
30-34	247	263	233	243	264	219	202	216
35-39	266	275	292	265	271	293	249	229
40-44	319	285	292	310	284	289	310	269
45-49	377	322	288	296	314	288	292	313
50-54	412	409	355	317	321	339	315	316
55-59	494	467	462	408	365	363	381	359
60-64	506	508	483	478	426	381	377	394
65-69	487	546	557	541	536	486	436	425
70-74	313	436	485	499	478	478	429	385
75-79	194	259	367	404	416	402	405	361
80-84	145	168	226	328	365	390	372	382
85+	73	104	134	183	267	328	381	396
<b>Total</b>	<b>5379</b>	<b>5545</b>	<b>5643</b>	<b>5688</b>	<b>5684</b>	<b>5614</b>	<b>5472</b>	<b>5311</b>
<b>LOW</b>								
0-4	247	239	224	205	186	168	150	138
5-9	295	264	253	237	217	197	178	158
10-14	370	324	285	273	257	235	213	192
15-19	269	282	233	209	205	190	173	156
20-24	158	158	171	114	128	116	108	98
25-29	210	174	171	185	129	137	128	116
30-34	247	253	217	209	222	170	162	158
35-39	266	270	276	242	231	242	190	179
40-44	319	282	284	292	257	243	255	203
45-49	377	321	284	287	294	260	246	256
50-54	412	403	347	308	308	314	280	264
55-59	494	456	444	389	344	340	346	312
60-64	506	504	468	457	402	356	350	355
65-69	487	535	539	511	498	444	394	382
70-74	313	430	466	476	441	436	384	341
75-79	194	253	354	376	383	357	357	311
80-84	145	162	212	301	321	340	309	317
85+	73	99	121	158	223	254	288	279
<b>Total</b>	<b>5379</b>	<b>5407</b>	<b>5351</b>	<b>5228</b>	<b>5045</b>	<b>4799</b>	<b>4510</b>	<b>4217</b>

Appendix F3: Projected numbers by five-year age group and projection variant, Lakes-Murchison Ward

<b>Lakes-Murchison Ward</b>								
	2018	2023	2028	2033	2038	2043	2048	2053
<b>HIGH</b>								
0-4	194	228	245	252	256	262	272	285
5-9	218	216	250	270	279	283	290	300
10-14	240	227	224	258	279	289	293	299
15-19	196	217	202	201	235	252	259	262
20-24	171	137	167	140	150	179	186	191
25-29	192	177	139	174	148	156	187	193
30-34	202	249	249	210	234	216	218	249
35-39	199	223	273	279	242	261	244	244
40-44	229	228	252	306	319	282	296	281
45-49	299	233	231	255	309	322	287	299
50-54	310	312	248	242	266	320	336	302
55-59	327	318	321	260	251	274	329	346
60-64	316	348	349	353	291	278	299	355
65-69	263	326	366	368	374	316	298	317
70-74	171	221	274	307	304	311	256	247
75-79	131	175	237	296	346	348	359	313
80-84	39	88	103	149	184	209	209	217
85+	38	40	70	96	140	187	235	266
<b>Total</b>	<b>3735</b>	<b>3963</b>	<b>4200</b>	<b>4416</b>	<b>4606</b>	<b>4745</b>	<b>4854</b>	<b>4969</b>
<b>MEDIUM</b>								
0-4	194	212	213	206	199	197	198	199
5-9	218	213	230	233	226	218	216	215
10-14	240	226	220	237	240	233	225	222
15-19	196	212	196	193	211	211	204	196
20-24	171	123	157	125	137	147	145	138
25-29	192	171	119	159	126	138	150	145
30-34	202	240	229	174	201	175	180	193
35-39	199	220	261	254	198	220	195	198
40-44	229	223	244	287	285	229	244	221
45-49	299	231	225	246	289	287	232	245
50-54	310	310	244	234	255	298	298	243
55-59	327	316	317	253	241	261	305	305
60-64	316	343	340	341	277	262	280	324
65-69	263	323	356	354	356	295	275	292
70-74	171	214	262	288	280	285	227	220
75-79	131	171	222	273	310	305	313	263
80-84	39	83	91	129	157	169	169	171
85+	38	40	68	88	124	162	195	216
<b>Total</b>	<b>3735</b>	<b>3871</b>	<b>3993</b>	<b>4073</b>	<b>4114</b>	<b>4091</b>	<b>4051</b>	<b>4005</b>
<b>LOW</b>								
0-4	194	196	184	167	153	147	142	136
5-9	218	209	211	200	181	166	158	152
10-14	240	225	216	218	206	187	171	162
15-19	196	207	191	185	187	175	157	144
20-24	171	109	149	109	128	117	113	95
25-29	192	165	100	149	106	124	115	109
30-34	202	231	210	140	176	140	152	144
35-39	199	217	248	230	158	188	154	163
40-44	229	219	236	269	254	180	204	172
45-49	299	230	219	237	270	254	182	204
50-54	310	308	240	227	244	277	263	190
55-59	327	315	314	247	233	249	283	268
60-64	316	338	331	331	264	247	262	296
65-69	263	319	346	340	340	276	256	269
70-74	171	207	251	269	258	262	202	196
75-79	131	166	207	250	276	266	272	219
80-84	39	77	78	110	130	132	137	128
85+	38	39	61	74	99	124	142	154
<b>Total</b>	<b>3735</b>	<b>3777</b>	<b>3792</b>	<b>3751</b>	<b>3664</b>	<b>3511</b>	<b>3365</b>	<b>3202</b>

Appendix F4: Projected numbers by five-year age group and projection variant, Motueka Ward

Motueka Ward								
	2018	2023	2028	2033	2038	2043	2048	2053
<b>HIGH</b>								
0- 4	627	788	879	962	1033	1090	1149	1230
5- 9	776	751	910	1028	1129	1214	1285	1353
10-14	804	845	826	983	1114	1225	1320	1396
15-19	728	757	798	777	934	1054	1157	1242
20-24	613	700	725	765	742	901	1013	1109
25-29	751	723	807	845	890	873	1028	1160
30-34	687	876	885	969	1025	1080	1073	1221
35-39	625	725	923	947	1035	1093	1150	1144
40-44	813	736	826	1037	1092	1186	1256	1320
45-49	934	900	825	908	1126	1202	1304	1382
50-54	864	967	939	870	947	1166	1255	1362
55-59	911	954	1064	1052	981	1049	1274	1385
60-64	893	983	1042	1158	1162	1089	1150	1377
65-69	877	1030	1155	1239	1374	1402	1341	1388
70-74	852	957	1128	1284	1393	1547	1599	1554
75-79	613	823	950	1132	1307	1431	1600	1668
80-84	381	495	683	801	972	1135	1258	1418
85+	268	332	437	609	782	991	1224	1448
<b>Total</b>	<b>13015</b>	<b>14341</b>	<b>15801</b>	<b>17365</b>	<b>19037</b>	<b>20727</b>	<b>22435</b>	<b>24157</b>
<b>MEDIUM</b>								
0- 4	627	740	791	837	875	902	926	959
5- 9	776	732	841	908	962	1006	1040	1065
10-14	804	835	795	902	977	1035	1084	1117
15-19	728	748	780	738	847	912	965	1007
20-24	613	696	711	742	699	811	870	917
25-29	751	706	784	810	844	803	910	980
30-34	687	857	839	915	954	993	959	1055
35-39	625	720	897	892	968	1008	1049	1014
40-44	813	719	804	991	1009	1086	1135	1178
45-49	934	886	793	870	1064	1097	1178	1230
50-54	864	962	918	829	901	1095	1139	1221
55-59	911	938	1041	1011	918	980	1180	1239
60-64	893	969	1008	1114	1097	1002	1056	1256
65-69	877	1003	1104	1161	1279	1279	1190	1228
70-74	852	936	1074	1197	1271	1399	1418	1338
75-79	613	814	916	1062	1197	1282	1420	1448
80-84	381	491	668	761	897	1022	1106	1235
85+	268	330	429	590	738	907	1088	1250
<b>Total</b>	<b>13015</b>	<b>14081</b>	<b>15194</b>	<b>16330</b>	<b>17497</b>	<b>18620</b>	<b>19713</b>	<b>20739</b>
<b>LOW</b>								
0- 4	627	695	711	723	735	739	737	735
5- 9	776	713	775	800	814	826	831	826
10-14	804	826	765	825	853	867	880	883
15-19	728	740	762	700	764	785	797	806
20-24	613	692	698	720	657	727	742	751
25-29	751	689	763	777	800	738	802	821
30-34	687	838	795	865	888	913	854	906
35-39	625	715	871	839	907	931	957	896
40-44	813	701	782	948	930	996	1027	1051
45-49	934	873	761	835	1005	999	1066	1096
50-54	864	957	899	791	860	1030	1032	1097
55-59	911	923	1019	972	860	919	1095	1106
60-64	893	956	976	1075	1038	922	975	1149
65-69	877	976	1055	1089	1193	1169	1057	1092
70-74	852	914	1020	1115	1158	1268	1258	1151
75-79	613	802	877	987	1088	1139	1255	1251
80-84	381	480	640	705	805	895	945	1050
85+	268	318	398	530	635	750	870	964
<b>Total</b>	<b>13015</b>	<b>13810</b>	<b>14569</b>	<b>15296</b>	<b>15991</b>	<b>16613</b>	<b>17179</b>	<b>17630</b>

Appendix F5: Projected numbers by five-year age group and projection variant, Moutere-Waimea Ward

<b>Moutere-Waimea Ward</b>								
	2018	2023	2028	2033	2038	2043	2048	2053
<b>HIGH</b>								
0- 4	736	872	989	1114	1239	1357	1473	1594
5- 9	1090	1040	1164	1316	1483	1651	1816	1974
10-14	1133	1197	1158	1277	1441	1621	1806	1985
15-19	852	1001	1045	998	1125	1266	1424	1582
20-24	483	539	636	629	571	747	761	916
25-29	554	568	622	743	745	703	861	906
30-34	648	763	818	891	1034	1081	1054	1200
35-39	746	820	955	1042	1136	1298	1383	1373
40-44	943	922	994	1143	1259	1373	1555	1672
45-49	1242	1112	1076	1143	1302	1438	1572	1768
50-54	1254	1408	1306	1257	1317	1482	1642	1795
55-59	1320	1374	1538	1459	1402	1455	1624	1798
60-64	1170	1455	1556	1736	1686	1623	1667	1839
65-69	1145	1336	1658	1822	2033	2023	1962	1993
70-74	748	1100	1304	1630	1796	2012	2013	1959
75-79	442	633	950	1122	1425	1563	1767	1756
80-84	160	341	487	754	881	1150	1259	1441
85+	182	195	311	474	745	1011	1373	1701
<b>Total</b>	<b>14848</b>	<b>16677</b>	<b>18567</b>	<b>20550</b>	<b>22619</b>	<b>24854</b>	<b>27012</b>	<b>29252</b>
<b>MEDIUM</b>								
0- 4	736	792	828	868	902	934	956	973
5- 9	1090	992	1026	1071	1121	1165	1207	1236
10-14	1133	1182	1091	1119	1166	1217	1265	1308
15-19	852	972	1000	903	949	986	1030	1067
20-24	483	463	581	531	451	585	489	633
25-29	554	555	531	659	613	544	654	583
30-34	648	730	756	739	861	849	775	864
35-39	746	793	886	931	924	1042	1054	979
40-44	943	894	935	1035	1097	1098	1216	1244
45-49	1242	1085	1020	1054	1159	1231	1243	1357
50-54	1254	1381	1244	1165	1190	1296	1381	1400
55-59	1320	1353	1487	1367	1279	1294	1402	1492
60-64	1170	1430	1499	1643	1544	1445	1450	1554
65-69	1145	1303	1588	1706	1869	1797	1692	1679
70-74	748	1084	1246	1531	1643	1808	1745	1646
75-79	442	622	919	1045	1307	1390	1546	1473
80-84	160	335	465	709	788	1021	1075	1215
85+	182	193	304	452	697	909	1205	1444
<b>Total</b>	<b>14848</b>	<b>16159</b>	<b>17405</b>	<b>18529</b>	<b>19562</b>	<b>20611</b>	<b>21388</b>	<b>22149</b>
<b>LOW</b>								
0- 4	736	716	689	666	645	631	605	576
5- 9	1090	943	896	861	832	803	784	751
10-14	1133	1167	1024	969	929	895	865	840
15-19	852	943	958	812	789	753	727	700
20-24	483	387	551	428	371	440	297	454
25-29	554	542	440	605	487	432	480	356
30-34	648	697	697	596	738	650	575	605
35-39	746	766	819	829	729	853	787	698
40-44	943	866	877	934	951	852	964	908
45-49	1242	1059	966	971	1027	1048	953	1051
50-54	1254	1354	1185	1079	1073	1127	1154	1059
55-59	1320	1333	1437	1281	1165	1149	1204	1231
60-64	1170	1405	1445	1557	1414	1285	1259	1307
65-69	1145	1271	1521	1597	1719	1595	1457	1411
70-74	748	1067	1188	1436	1501	1624	1507	1378
75-79	442	608	882	963	1190	1224	1344	1221
80-84	160	325	434	650	682	884	890	1000
85+	182	186	280	398	589	723	929	1057
<b>Total</b>	<b>14848</b>	<b>15635</b>	<b>16289</b>	<b>16633</b>	<b>16830</b>	<b>16969</b>	<b>16780</b>	<b>16602</b>

Appendix F6: Projected numbers by five-year age group and projection variant, Richmond Ward

<b>Richmond Ward</b>								
	2018	2023	2028	2033	2038	2043	2048	2053
<b>HIGH</b>								
0- 4	802	943	1049	1140	1191	1209	1233	1289
5- 9	1065	998	1129	1260	1374	1445	1476	1502
10-14	1263	1240	1173	1294	1442	1574	1662	1702
15-19	1287	1358	1344	1278	1393	1547	1690	1787
20-24	903	971	1019	990	935	1067	1174	1278
25-29	760	861	925	973	941	884	1019	1117
30-34	707	842	961	1037	1097	1069	1009	1133
35-39	803	822	962	1102	1200	1271	1254	1190
40-44	968	971	991	1135	1298	1417	1512	1509
45-49	1373	1156	1130	1148	1293	1476	1624	1735
50-54	1362	1443	1239	1201	1217	1361	1552	1710
55-59	1191	1352	1439	1242	1203	1218	1361	1550
60-64	1082	1254	1435	1541	1356	1304	1314	1455
65-69	1159	1271	1469	1689	1839	1689	1610	1604
70-74	927	1206	1358	1575	1822	2001	1883	1792
75-79	716	960	1275	1484	1738	2024	2254	2187
80-84	492	618	846	1149	1367	1623	1915	2155
85+	483	570	713	955	1319	1724	2196	2745
<b>Total</b>	<b>17345</b>	<b>18837</b>	<b>20456</b>	<b>22192</b>	<b>24025</b>	<b>25902</b>	<b>27738</b>	<b>29441</b>
<b>MEDIUM</b>								
0- 4	802	881	934	971	978	961	947	951
5- 9	1065	968	1033	1097	1144	1156	1142	1122
10-14	1263	1214	1113	1167	1237	1290	1309	1293
15-19	1287	1346	1303	1201	1248	1318	1376	1395
20-24	903	897	956	890	818	893	932	971
25-29	760	855	842	908	835	765	846	877
30-34	707	830	938	936	1003	935	858	928
35-39	803	804	929	1054	1068	1134	1075	988
40-44	968	944	943	1068	1209	1238	1313	1261
45-49	1373	1126	1074	1068	1193	1347	1399	1473
50-54	1362	1431	1195	1132	1124	1245	1407	1464
55-59	1191	1352	1427	1197	1133	1124	1245	1404
60-64	1082	1241	1417	1508	1288	1211	1197	1314
65-69	1159	1234	1408	1614	1739	1546	1441	1409
70-74	927	1188	1296	1482	1706	1852	1687	1568
75-79	716	940	1226	1379	1586	1834	2019	1893
80-84	492	614	822	1093	1255	1460	1710	1899
85+	483	568	704	927	1254	1591	1974	2418
<b>Total</b>	<b>17345</b>	<b>18434</b>	<b>19559</b>	<b>20692</b>	<b>21819</b>	<b>22903</b>	<b>23876</b>	<b>24625</b>
<b>LOW</b>								
0- 4	802	822	829	822	795	756	718	691
5- 9	1065	937	942	952	945	915	872	826
10-14	1263	1188	1054	1048	1055	1047	1017	967
15-19	1287	1333	1261	1126	1111	1116	1108	1074
20-24	903	822	907	794	718	740	735	727
25-29	760	848	759	858	735	665	694	683
30-34	707	818	916	836	929	811	731	751
35-39	803	787	898	1009	939	1023	914	820
40-44	968	918	896	1006	1128	1068	1149	1044
45-49	1373	1097	1021	994	1101	1232	1189	1258
50-54	1362	1421	1153	1067	1037	1141	1278	1237
55-59	1191	1354	1417	1155	1069	1038	1142	1275
60-64	1082	1228	1401	1479	1225	1127	1091	1189
65-69	1159	1199	1351	1546	1649	1416	1291	1238
70-74	927	1169	1234	1393	1598	1717	1508	1369
75-79	716	916	1170	1270	1436	1654	1800	1624
80-84	492	604	782	1015	1120	1278	1489	1632
85+	483	550	660	835	1086	1313	1565	1861
<b>Total</b>	<b>17345</b>	<b>18013</b>	<b>18651</b>	<b>19206</b>	<b>19676</b>	<b>20057</b>	<b>20290</b>	<b>20264</b>



Appendix F7: Projected numbers by five-year age group and projection variant, Motueka Township

Motueka Township								
	2018	2023	2028	2033	2038	2043	2048	2053
<b>HIGH</b>								
0- 4	399	521	600	667	723	768	816	882
5- 9	483	454	573	667	744	807	859	911
10-14	512	537	512	628	734	821	893	951
15-19	476	476	502	475	593	689	769	833
20-24	371	468	466	492	465	583	676	753
25-29	524	489	579	599	629	608	720	837
30-34	412	579	569	657	689	724	708	815
35-39	372	431	603	605	695	730	766	750
40-44	471	429	485	663	687	778	825	865
45-49	571	519	476	527	710	750	844	898
50-54	432	556	503	463	515	695	733	825
55-59	515	507	629	599	554	597	782	845
60-64	526	572	577	698	687	640	677	861
65-69	580	668	744	770	899	923	884	909
70-74	613	728	852	966	1028	1173	1240	1223
75-79	470	635	780	929	1070	1158	1317	1412
80-84	312	408	565	711	863	1010	1111	1272
85+	232	281	367	511	686	886	1107	1314
<b>Total</b>	<b>8270</b>	<b>9261</b>	<b>10383</b>	<b>11629</b>	<b>12971</b>	<b>14340</b>	<b>15727</b>	<b>17159</b>
<b>MEDIUM</b>								
0- 4	399	487	535	572	600	620	641	670
5- 9	483	446	531	588	630	661	685	705
10-14	512	529	495	577	642	688	723	748
15-19	476	469	488	452	537	593	634	664
20-24	371	466	455	475	438	525	578	616
25-29	524	471	556	563	583	550	630	696
30-34	412	571	537	618	635	657	626	700
35-39	372	428	591	567	649	667	690	658
40-44	471	421	473	641	634	713	741	764
45-49	571	512	459	507	679	686	765	797
50-54	432	554	492	443	493	662	665	744
55-59	515	495	613	569	515	556	729	752
60-64	526	562	550	665	638	579	614	787
65-69	580	643	696	699	815	813	758	778
70-74	613	699	784	862	885	1005	1035	988
75-79	470	622	731	833	927	966	1091	1139
80-84	312	405	548	659	764	862	913	1035
85+	232	279	362	494	636	786	941	1072
<b>Total</b>	<b>8270</b>	<b>9057</b>	<b>9895</b>	<b>10783</b>	<b>11699</b>	<b>12588</b>	<b>13459</b>	<b>14313</b>
<b>LOW</b>								
0- 4	399	455	477	486	493	496	496	500
5- 9	483	438	491	517	529	536	539	537
10-14	512	522	478	528	558	570	579	580
15-19	476	462	474	429	484	507	517	522
20-24	371	464	445	458	412	470	491	498
25-29	524	452	534	529	541	496	547	573
30-34	412	563	505	583	585	596	553	597
35-39	372	426	580	530	606	610	621	575
40-44	471	412	461	620	583	655	665	675
45-49	571	505	443	489	651	624	694	706
50-54	432	552	481	425	473	632	601	672
55-59	515	482	597	541	479	520	682	665
60-64	526	551	524	636	592	525	560	722
65-69	580	617	652	634	741	718	650	671
70-74	613	669	718	766	759	864	864	798
75-79	470	606	679	738	794	797	901	914
80-84	312	397	520	594	655	713	727	823
85+	232	269	337	443	542	636	730	795
<b>Total</b>	<b>8270</b>	<b>8841</b>	<b>9394</b>	<b>9948</b>	<b>10480</b>	<b>10966</b>	<b>11418</b>	<b>11825</b>

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