

Jersey
population projections
2016 release

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Section 1 - Overview

This report provides data on the projected future size and structure of Jersey's resident population that would arise under particular scenarios of births, deaths and migration patterns. The information in this report updates that published in September 2013.

In this 2016 release, a broader range of migration scenarios has been modelled, to reflect the recent levels of net migration seen (estimated at 700 people per year into the Island in 2013 and 2014, and 1,500 people per year into the Island in 2015). In addition, two new migration scenarios have been included which, instead of setting a particular migration level, look to model the potential outcome of increasing or decreasing the number of active permissions given to businesses to employ newcomers. For a more detailed explanation of the migration dynamics and the impact of granting and removing permissions to businesses, see <https://youtu.be/REwLYj7q8dl>.

Methodology

The 2011 Census provided a baseline of the number of known residents in Jersey at March 2011 by age and gender. The population model uses this baseline population, rolled backwards to year-end 2010, and projects the population forwards, year by year, by adding births, subtracting deaths, and adjusting for inward and outward migration.

Whilst actual numbers of births and migration levels have been incorporated for 2011 to 2015 inclusive, in 2016 and subsequent years each component in the projections – births, deaths, inward and outward migration – is **an estimate based on recent trends**.

A range of net migration scenarios are presented, exploring what *would* happen to Jersey's population size and structure under particular migration levels.

For more detail on fertility, mortality and migration assumptions used, and the sensitivity of the results to these assumptions see Appendix I.

Key characteristics to consider

- **Dependency ratio:** the ratio of non-working age to working age persons in the population¹. The dependency ratio in Jersey was 50% at year-end 2015.

A high dependency ratio represents a high number of non-working age being supported by a relatively small number of working-age residents. A low dependency ratio is therefore considered desirable.

- **Working age population size:** the number of people of working age provides a measure of potential workforce size (NB. *actual* economic activity rates of this group are also key to workforce size). Maintaining or potentially growing the size of Jersey's workforce (in absolute numbers) may be considered desirable for businesses and Jersey's economy.
- The **overall size** of Jersey's population has implications for the Island's resources and can impact on residents' quality of life. Population size is affected by births and deaths ('natural growth') as well as migration.

Additional issues

The projections are for Jersey's **resident** population and do not include all potential scenarios; for example:

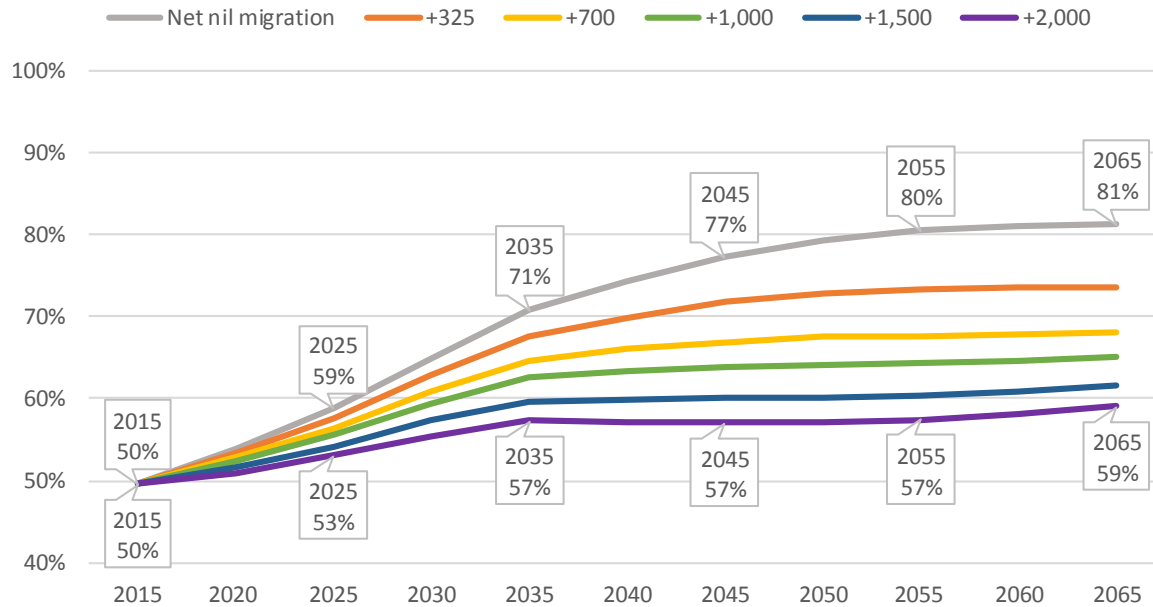
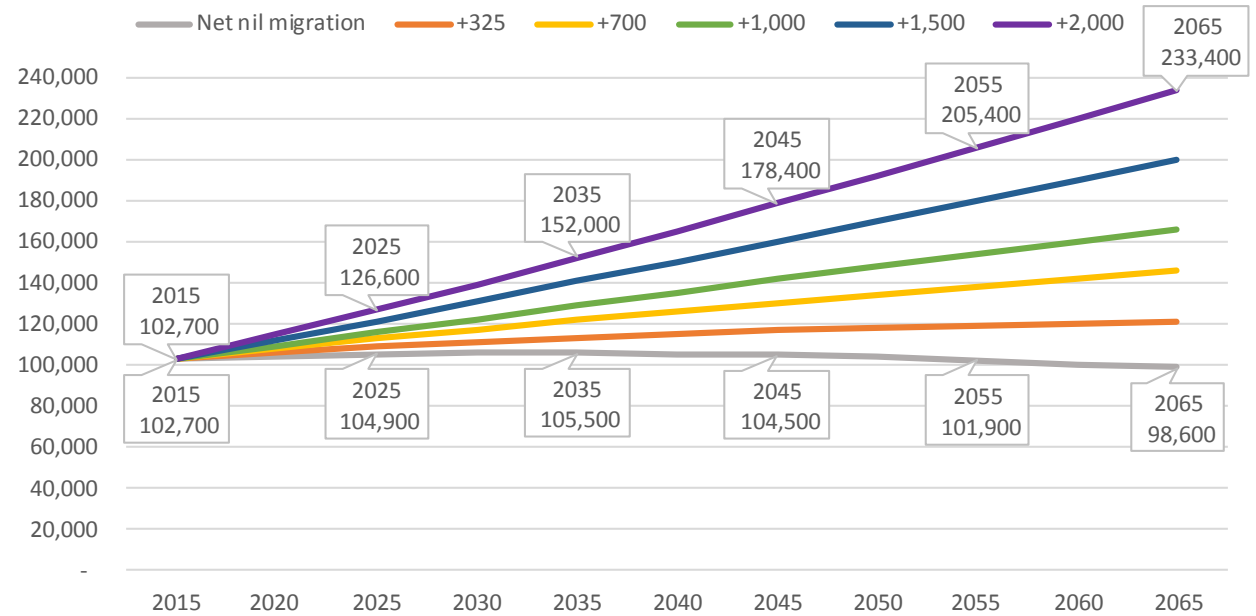
- short-term working visitors would add to the size of the workforce and thereby maintain or increase the workforce size as well as improve the dependency ratio, without affecting resident population size;
- the effective dependency ratio can be reduced through increasing pensionable age, thus increasing the size of the workforce relative to pensioners, again without impacting on overall population size¹.

Throughout this report, all population numbers have been independently rounded to the nearest 100, whilst projected numbers of births and deaths have been rounded to the nearest 10.

¹ Throughout this report, the dependency ratio is calculated as the number of children aged under 16, plus the number of persons aged 65 years or over (i.e. 'dependent persons'), divided by the number of people aged 16 to 64 years inclusive. To assist in interpretation of the trends resulting from the migration scenarios, the increase in pensionable age to 67 by 2031 has not been taken account of in these projections. **This change in pensionable age would reduce the effective dependency ratio seen from 2031 onwards by approximately 6 percentage points.**

Section 2 - Summary of results

**Total population size
2015 – 2065
under different levels of
net migration**



**Dependency ratio
2015 – 2065
under different levels of
net migration**

Summary of results: Short term 2025

- Every projection begins with the baseline population at year-end 2015, using known levels of births, deaths and net migration applied to the 2011 census population. Migration scenarios begin from year-end 2015.

	Dependency ratio	Working age population	Total population size
Year-end 2015 population characteristics	50%	68,600	102,700

- The table below outlines the projected change over the first decade under each scenario:

Population characteristics year-end 2025 under scenario	Dependency ratio	Change in working age population compared to 2015	Total population size in 2025	Change in total population size, relative to 2015
No inward or outward migration	59%	-2,900	104,600	2%
Net nil migration	59%	-2,500	104,900	2%
Net migration +325 <u>people</u> annually	58%	200	108,400	6%
Net migration +700 <u>people</u> annually	56%	3,300	112,500	10%
Net migration +1,000 <u>people</u> annually	56%	5,800	115,700	13%
Net migration +1,500 <u>people</u> annually	54%	10,000	121,200	18%
Net migration +2,000 <u>people</u> annually	53%	14,100	126,600	23%
Maintain 2015 Registered population size	56%	2,900	111,800	9%
Add 200 Registered workers per year for a decade	55%	5,100	114,500	11%
Reduce Registered workers by 200 per year for a decade	57%	800	109,200	6%

Summary of results: Medium term 2035

- Every projection begins with the baseline population at year-end 2015, using known levels of births, deaths and net migration applied to the 2011 census population. Migration scenarios begin from year-end 2015.

	Dependency ratio	Working age population	Total population size
Year-end 2015 population characteristics	50%	68,600	102,700

- The table below outlines the projected change over the next two decades under each scenario:

Population characteristics year-end 2035 under scenario	Dependency ratio	Change in working age population compared to 2015	Total population size in 2035	Change in total population size, relative to 2015 (%)
No inward or outward migration	74%	-9,000	104,100	1%
Net nil migration	71%	-6,900	105,500	3%
Net migration +325 <u>people</u> annually	68%	-1,200	113,100	10%
Net migration +700 <u>people</u> annually	65%	5,400	121,800	19%
Net migration +1,000 <u>people</u> annually	63%	10,600	128,800	25%
Net migration +1,500 <u>people</u> annually	60%	19,300	140,400	37%
Net migration +2,000 <u>people</u> annually	57%	28,100	152,000	48%
Maintain 2015 Registered population size	65%	4,200	120,100	17%
Add 200 Registered workers per year for a decade	63%	7,600	124,600	21%
Reduce Registered workers by 200 per year for a decade	67%	800	115,700	13%

Summary of results: Long term 2065

- Every projection begins with the baseline population at year-end 2015, using known levels of births, deaths and net migration applied to the 2011 census population. Migration scenarios begin from year-end 2015.

	Dependency ratio	Working age population	Total population size
Year-end 2015 population characteristics	50%	68,600	102,700

- The table below outlines the projected change over the long term, to 2065, under each scenario:

Population characteristics year-end 2065 under scenario	Dependency ratio	Change in working age population compared to 2015	Total population size in 2065	Change in total population size, relative to 2015 (%)
No inward or outward migration	96%	-22,900	89,500	-13%
Net nil migration	81%	-14,200	98,600	-4%
Net migration +325 <u>people</u> annually	74%	800	120,500	17%
Net migration +700 <u>people</u> annually	68%	18,100	145,800	42%
Net migration +1,000 <u>people</u> annually	65%	32,000	166,000	62%
Net migration +1,500 <u>people</u> annually	62%	55,100	199,700	94%
Net migration +2,000 <u>people</u> annually	59%	78,200	233,400	127%
Maintain 2015 Registered population size	70%	12,800	138,200	35%
Add 200 Registered workers per year for a decade	68%	19,400	147,900	44%
Reduce Registered workers by 200 per year for a decade	72%	6,300	128,500	25%

Section 3 – Detailed results

No inward or outward migration

Outline: in this scenario, no people move away, or arrive from outside Jersey to live. The only changes in the population size and structure are through ageing, births and deaths.

Figure 2.1 Projected total population size and broad age breakdown

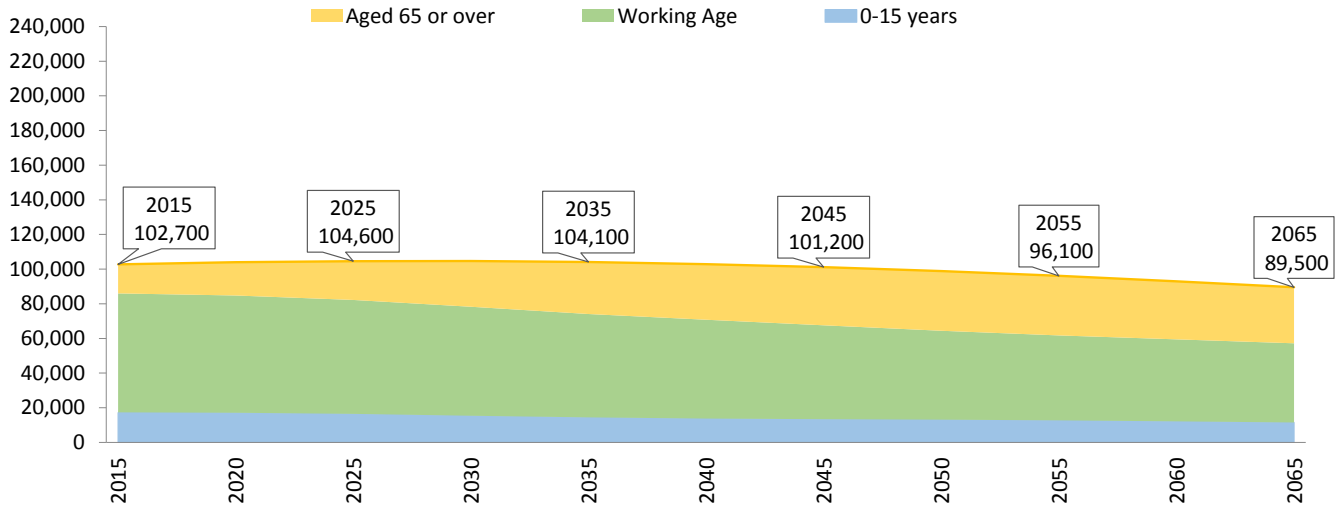


Table 2.1 Short, medium and long term summary demographics

	2025	2035	2065
<i>65+ yr olds at year end</i>	22,400	30,000	32,300
<i>16 – 64 yr olds at year end</i>	65,700	59,600	45,700
<i>0 – 15 yr olds at year end</i>	16,500	14,400	11,500
<i>Total population at year end</i>	104,600	104,100	89,500
<i>Dependency Ratio</i>	59%	74%	96%
Number of births during year	920	840	660
Number of deaths during year	850	1,030	1,330

Figure 2.2 Trend in age-group subpopulations, and dependency ratio

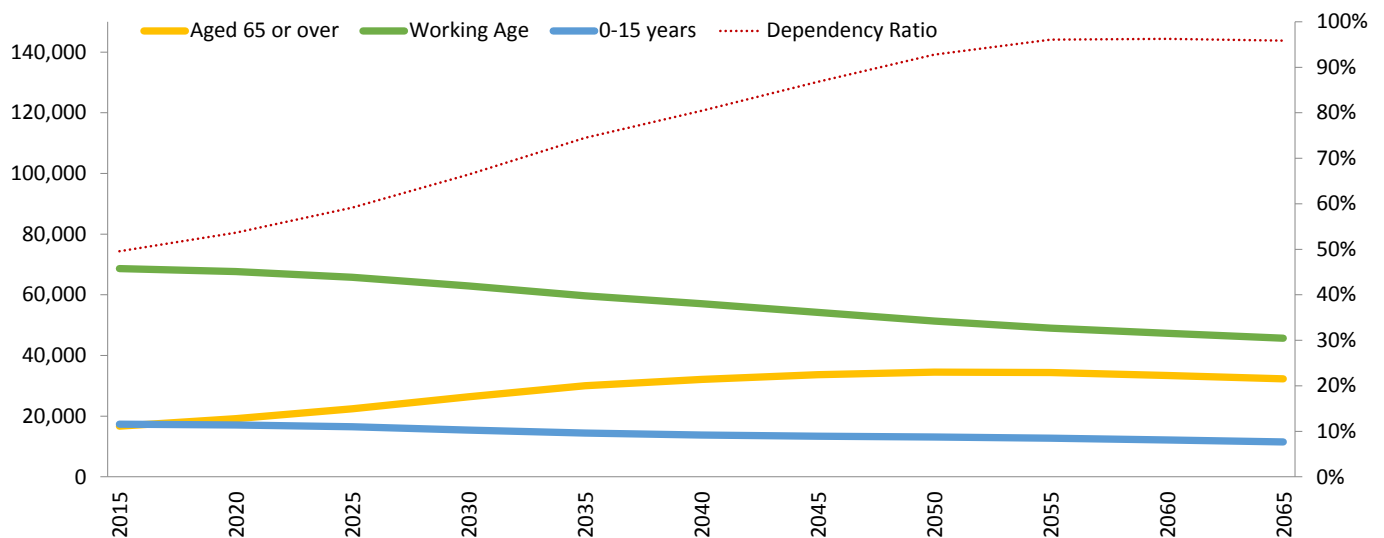


Table 2.2 Full detail: no inward or outward migration

Age	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
0-4	5,420	5,160	4,770	4,430	4,240	4,170	4,130	3,990	3,780	3,560	3,380
5-9	5,470	5,420	5,160	4,770	4,430	4,240	4,170	4,130	3,990	3,780	3,560
10-14	5,390	5,470	5,420	5,160	4,770	4,430	4,240	4,170	4,120	3,990	3,780
15-19	5,720	5,380	5,470	5,410	5,160	4,770	4,430	4,240	4,170	4,120	3,990
20-24	5,890	5,710	5,380	5,460	5,410	5,150	4,760	4,420	4,230	4,170	4,120
25-29	6,550	5,880	5,700	5,370	5,450	5,400	5,150	4,760	4,420	4,230	4,160
30-34	7,220	6,540	5,860	5,690	5,360	5,450	5,400	5,140	4,750	4,410	4,230
35-39	7,410	7,200	6,520	5,850	5,670	5,350	5,430	5,380	5,130	4,740	4,410
40-44	7,480	7,370	7,170	6,490	5,820	5,650	5,330	5,410	5,370	5,110	4,730
45-49	8,430	7,420	7,320	7,120	6,450	5,790	5,620	5,300	5,390	5,340	5,090
50-54	8,220	8,340	7,350	7,260	7,060	6,400	5,750	5,580	5,270	5,360	5,310
55-59	6,990	8,080	8,210	7,250	7,160	6,970	6,330	5,680	5,530	5,220	5,310
60-64	5,810	6,800	7,890	8,030	7,100	7,020	6,850	6,220	5,590	5,440	5,140
65-69	5,320	5,580	6,560	7,630	7,780	6,890	6,830	6,670	6,070	5,460	5,320
70-74	3,700	4,990	5,270	6,220	7,260	7,420	6,590	6,550	6,410	5,850	5,280
75-79	3,210	3,330	4,540	4,830	5,740	6,730	6,900	6,160	6,140	6,030	5,530
80-84	2,310	2,660	2,830	3,900	4,190	5,020	5,940	6,130	5,500	5,530	5,460
85+	2,150	2,610	3,230	3,810	5,020	6,050	7,360	8,980	10,220	10,520	10,730
All ages	102,700	104,000	104,600	104,700	104,100	102,900	101,200	98,900	96,100	92,900	89,500

Age	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
0-15	17,300	17,100	16,500	15,400	14,400	13,800	13,400	13,100	12,700	12,100	11,500
16-64	68,600	67,700	65,700	62,900	59,600	57,000	54,200	51,300	49,000	47,300	45,700
65+	16,700	19,200	22,400	26,400	30,000	32,100	33,600	34,500	34,400	33,400	32,300

0-15	17%	16%	16%	15%	14%	13%	13%	13%	13%	13%	13%
16-64	67%	65%	63%	60%	57%	55%	54%	52%	51%	51%	51%
65+	16%	18%	21%	25%	29%	31%	33%	35%	36%	36%	36%

Dependency ratio

50%	54%	59%	66%	74%	80%	87%	93%	96%	96%	96%
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Net Nil migration

Outline: in this scenario, the number arriving to live is set to **equal** the number moving away, so that overall, there is **net nil** migration. However, because the age profile of outward migrants is different to the age profile of inward migrants (the recent trend is that inward migrants are younger than outward migrants), and birth and death rates vary by age, the outcome of net nil migration is slightly different to that of no inward or outward migration.

Figure 2.3 Projected total population size and broad age breakdown

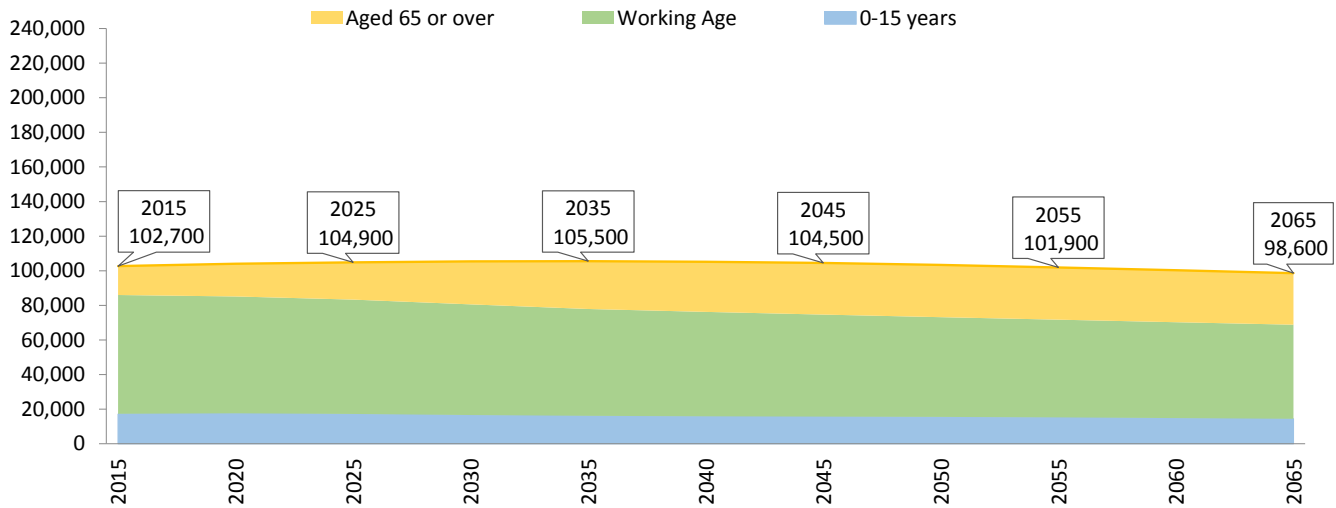


Table 2.3 Short, medium and long term summary demographics

	2025	2035	2065
<i>65+ yr olds at year end</i>	21,600	27,600	29,800
<i>16 – 64 yr olds at year end</i>	66,100	61,700	54,400
<i>0 – 15 yr olds at year end</i>	17,200	16,200	14,400
Total population at year end	104,900	105,500	98,600
<i>Dependency Ratio</i>	<i>59%</i>	<i>71%</i>	<i>81%</i>
Number of births during year	970	930	820
Number of deaths during year	830	960	1,150

Figure 2.4 Trend in age-group subpopulations, and dependency ratio

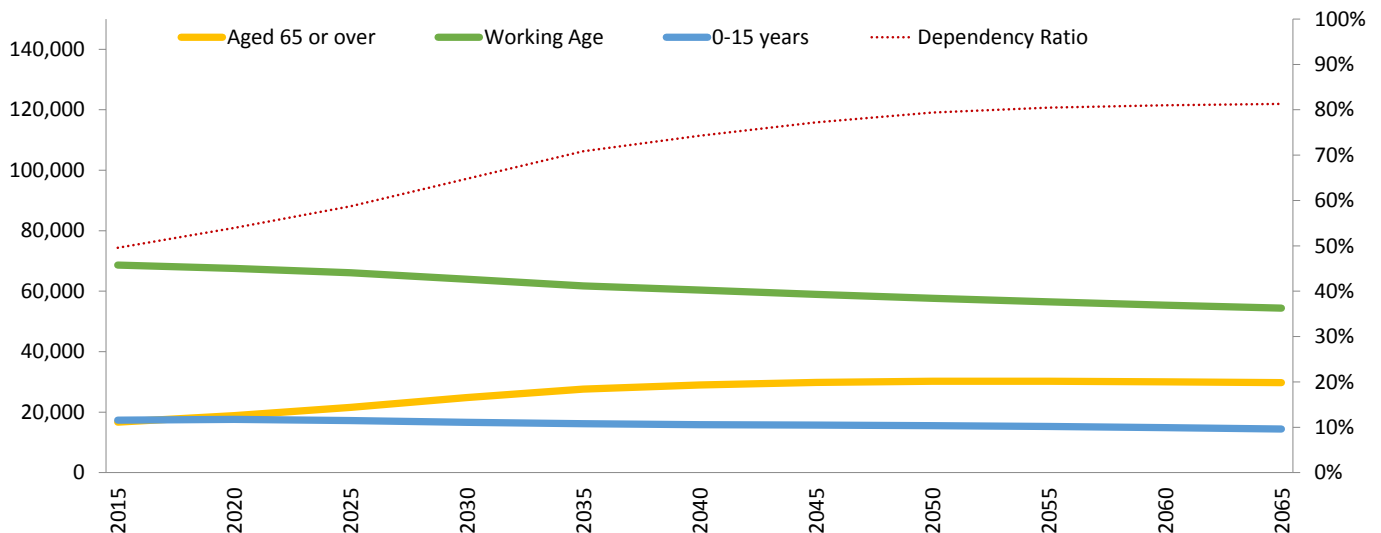


Table 2.4 Full detail: net nil migration

Age	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
0-4	5,420	5,240	4,990	4,830	4,740	4,720	4,700	4,600	4,450	4,320	4,210
5-9	5,470	5,540	5,360	5,140	5,000	4,910	4,880	4,860	4,750	4,610	4,470
10-14	5,390	5,690	5,690	5,510	5,300	5,170	5,070	5,040	5,010	4,900	4,750
15-19	5,720	5,650	5,900	5,870	5,690	5,460	5,320	5,220	5,180	5,150	5,030
20-24	5,890	5,730	5,620	5,840	5,800	5,610	5,390	5,240	5,130	5,090	5,050
25-29	6,550	6,210	6,030	5,850	6,020	5,950	5,750	5,510	5,350	5,230	5,180
30-34	7,220	6,700	6,450	6,250	6,050	6,190	6,110	5,900	5,650	5,490	5,360
35-39	7,410	7,110	6,700	6,490	6,290	6,080	6,220	6,140	5,920	5,680	5,510
40-44	7,480	7,310	7,040	6,700	6,510	6,310	6,110	6,230	6,160	5,940	5,710
45-49	8,430	7,290	7,140	6,910	6,610	6,450	6,260	6,070	6,190	6,120	5,910
50-54	8,220	8,150	7,060	6,930	6,730	6,470	6,330	6,150	5,970	6,100	6,030
55-59	6,990	7,890	7,820	6,790	6,680	6,510	6,280	6,160	6,000	5,820	5,950
60-64	5,810	6,640	7,520	7,470	6,490	6,410	6,260	6,060	5,960	5,810	5,650
65-69	5,320	5,460	6,260	7,120	7,080	6,170	6,100	5,980	5,810	5,730	5,590
70-74	3,700	4,900	5,050	5,810	6,640	6,620	5,790	5,740	5,640	5,510	5,440
75-79	3,210	3,280	4,380	4,550	5,270	6,050	6,060	5,310	5,300	5,230	5,130
80-84	2,310	2,630	2,750	3,700	3,890	4,550	5,260	5,300	4,680	4,700	4,660
85+	2,150	2,580	3,150	3,660	4,730	5,570	6,620	7,890	8,780	8,870	8,940
All ages	102,700	104,000	104,900	105,400	105,500	105,200	104,500	103,400	101,900	100,300	98,600

Age	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
0-15	17,300	17,600	17,200	16,600	16,200	15,900	15,700	15,500	15,200	14,900	14,400
16-64	68,600	67,500	66,100	64,000	61,700	60,400	59,000	57,600	56,500	55,400	54,400
65+	16,700	18,800	21,600	24,800	27,600	29,000	29,800	30,200	30,200	30,000	29,800

0-15	17%	17%	16%	16%	15%	15%	15%	15%	15%	15%	15%
16-64	67%	65%	63%	61%	59%	57%	56%	56%	55%	55%	55%
65+	16%	18%	21%	24%	26%	28%	29%	29%	30%	30%	30%

Dependency ratio	50%	54%	59%	65%	71%	74%	77%	79%	80%	81%	81%
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Net inward +325 persons

Outline: in this scenario, an additional 325 people move into the Island **over and above** the number that leave the Island, each year from 2016 onwards.

Figure 2.5 Projected total population size and broad age breakdown

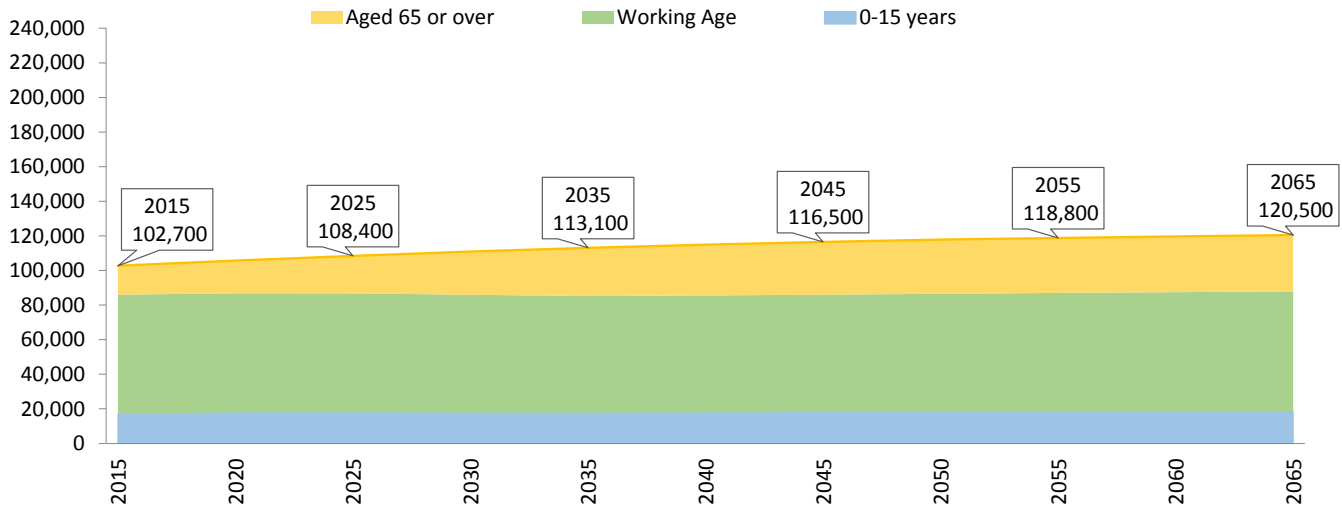


Table 2.5 Short, medium and long term summary demographics

	2025	2035	2065
<i>65+ yr olds at year end</i>	21,600	27,900	32,600
<i>16 – 64 yr olds at year end</i>	68,800	67,400	69,400
<i>0 – 15 yr olds at year end</i>	18,000	17,800	18,500
Total population at year end	108,400	113,100	120,500
<i>Dependency Ratio</i>	<i>58%</i>	<i>68%</i>	<i>74%</i>
Number of births during year	1,020	1,040	1,080
Number of deaths during year	830	970	1,210

Figure 2.6 Trend in age-group subpopulations, and dependency ratio

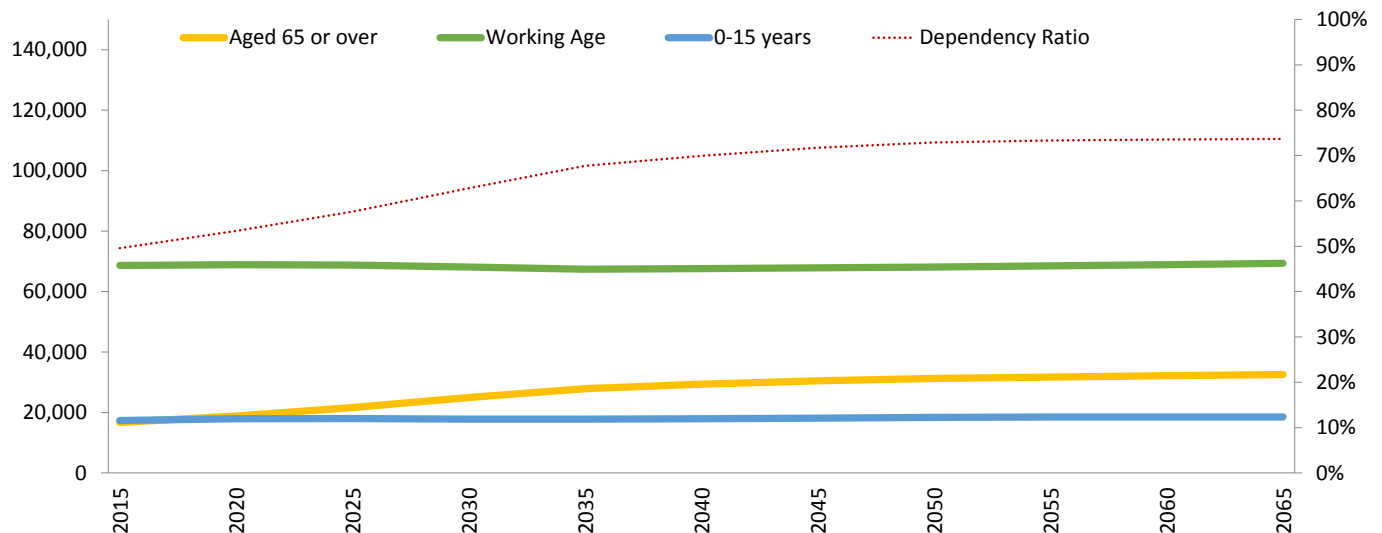


Table 2.6 Full detail: Net inward +325 persons

Age	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
0-4	5,420	5,350	5,250	5,240	5,270	5,370	5,470	5,490	5,480	5,470	5,490
5-9	5,470	5,640	5,590	5,510	5,510	5,550	5,640	5,740	5,760	5,750	5,740
10-14	5,390	5,790	5,910	5,870	5,800	5,800	5,840	5,930	6,030	6,050	6,040
15-19	5,720	5,710	6,080	6,190	6,150	6,080	6,080	6,110	6,200	6,300	6,320
20-24	5,890	5,860	5,830	6,170	6,280	6,230	6,170	6,170	6,200	6,280	6,370
25-29	6,550	6,470	6,450	6,390	6,710	6,800	6,750	6,680	6,680	6,710	6,790
30-34	7,220	6,970	6,970	6,940	6,870	7,170	7,260	7,210	7,150	7,150	7,170
35-39	7,410	7,300	7,130	7,160	7,130	7,070	7,360	7,450	7,400	7,340	7,340
40-44	7,480	7,480	7,390	7,270	7,310	7,290	7,220	7,510	7,600	7,560	7,500
45-49	8,430	7,400	7,400	7,330	7,250	7,310	7,290	7,230	7,510	7,610	7,570
50-54	8,220	8,230	7,240	7,250	7,200	7,150	7,220	7,210	7,160	7,440	7,530
55-59	6,990	7,950	7,950	7,010	7,020	7,000	6,960	7,050	7,040	7,000	7,270
60-64	5,810	6,660	7,590	7,600	6,710	6,740	6,730	6,710	6,810	6,810	6,770
65-69	5,320	5,470	6,290	7,190	7,210	6,370	6,410	6,420	6,420	6,520	6,540
70-74	3,700	4,900	5,060	5,850	6,700	6,740	5,970	6,020	6,050	6,070	6,180
75-79	3,210	3,280	4,380	4,560	5,300	6,110	6,160	5,480	5,550	5,590	5,640
80-84	2,310	2,630	2,750	3,710	3,900	4,570	5,310	5,390	4,820	4,920	4,990
85+	2,150	2,580	3,160	3,670	4,740	5,590	6,650	7,950	8,890	9,050	9,240
All ages	102,700	105,700	108,400	110,900	113,100	114,900	116,500	117,800	118,800	119,600	120,500

Age	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
0-15	17,300	17,900	18,000	17,800	17,800	17,900	18,200	18,400	18,500	18,500	18,500
16-64	68,600	68,900	68,800	68,100	67,400	67,600	67,800	68,100	68,500	68,900	69,400
65+	16,700	18,900	21,600	25,000	27,900	29,400	30,500	31,300	31,700	32,200	32,600

0-15	17%	17%	17%	16%	16%	16%	16%	16%	16%	15%	15%
16-64	67%	65%	63%	61%	60%	59%	58%	58%	58%	58%	58%
65+	16%	18%	20%	23%	25%	26%	26%	27%	27%	27%	27%

Dependency ratio

50%	53%	58%	63%	68%	70%	72%	73%	73%	73%	74%	74%
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Net inward +700 persons

Outline: in this scenario, an additional 700 people move to the Island **over and above** the number that leave the Island, each year from 2016 onwards.

Figure 2.7 Projected total population size and broad age breakdown

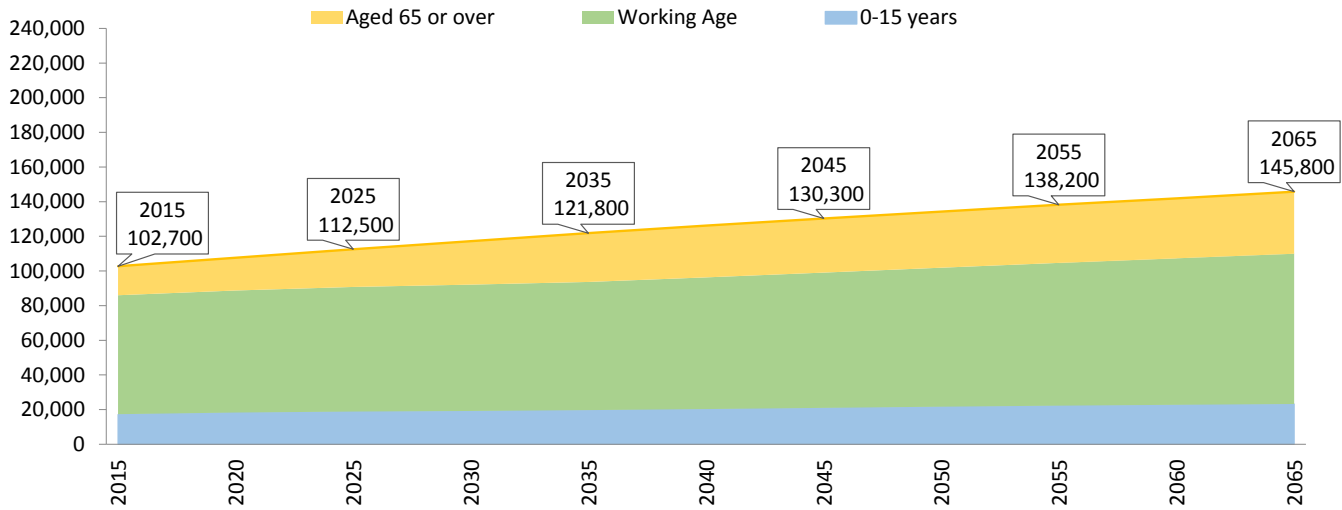


Table 2.7 Short, medium and long term summary demographics

	2025	2035	2065
65+ yr olds at year end	21,700	28,100	35,800
16 – 64 yr olds at year end	71,900	74,000	86,700
0 – 15 yr olds at year end	18,900	19,700	23,200
Total population at year end	112,500	121,800	145,800
<i>Dependency Ratio</i>	<i>56%</i>	<i>65%</i>	<i>68%</i>
Number of births during year	1,090	1,160	1,370
Number of deaths during year	840	980	1,280

Figure 2.8 Trend in age-group subpopulations, and dependency ratio

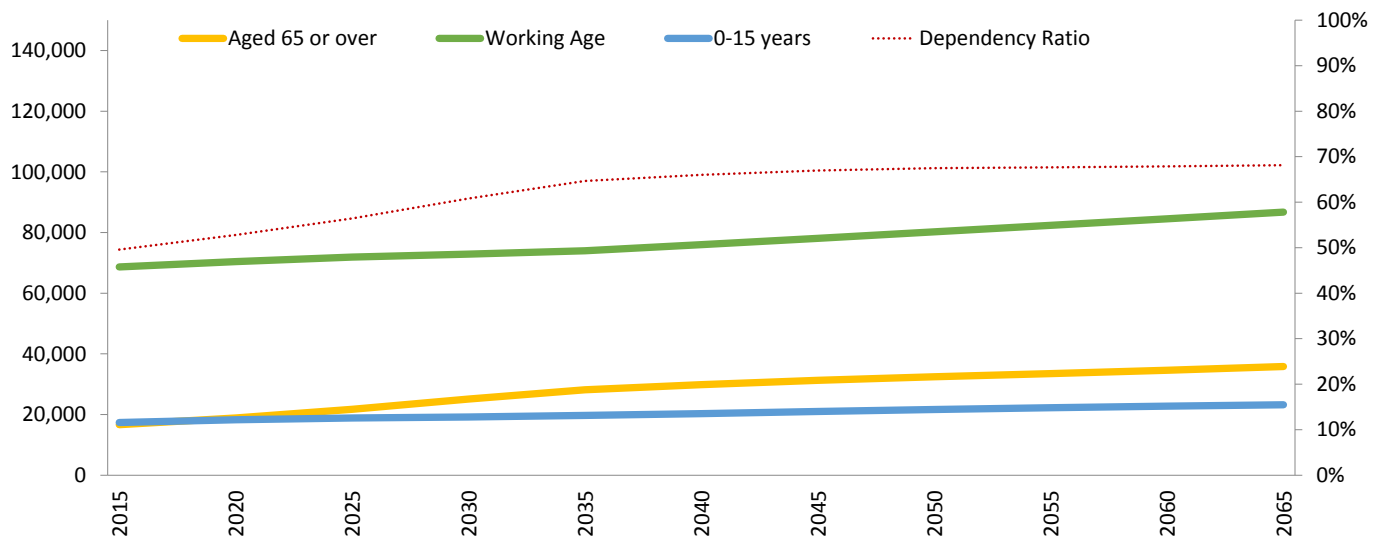


Table 2.8 Full detail: Net inward +700 persons

Age	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
0-4	5,420	5,470	5,550	5,710	5,880	6,110	6,360	6,530	6,660	6,800	6,950
5-9	5,470	5,760	5,850	5,950	6,100	6,280	6,510	6,750	6,930	7,060	7,200
10-14	5,390	5,900	6,170	6,270	6,380	6,540	6,730	6,960	7,200	7,380	7,520
15-19	5,720	5,780	6,290	6,570	6,680	6,790	6,950	7,140	7,380	7,620	7,810
20-24	5,890	6,010	6,080	6,560	6,840	6,950	7,070	7,230	7,420	7,650	7,900
25-29	6,550	6,780	6,940	7,010	7,500	7,780	7,910	8,040	8,220	8,420	8,660
30-34	7,220	7,280	7,560	7,730	7,820	8,300	8,590	8,730	8,870	9,060	9,270
35-39	7,410	7,520	7,630	7,930	8,110	8,200	8,670	8,970	9,110	9,250	9,440
40-44	7,480	7,660	7,790	7,920	8,240	8,410	8,510	8,980	9,280	9,420	9,570
45-49	8,430	7,530	7,690	7,820	7,990	8,300	8,480	8,580	9,040	9,330	9,480
50-54	8,220	8,320	7,450	7,610	7,750	7,930	8,250	8,430	8,530	8,980	9,270
55-59	6,990	8,010	8,090	7,260	7,410	7,560	7,750	8,070	8,250	8,350	8,800
60-64	5,810	6,700	7,680	7,760	6,960	7,120	7,270	7,470	7,790	7,960	8,070
65-69	5,320	5,480	6,330	7,270	7,350	6,610	6,770	6,920	7,130	7,440	7,620
70-74	3,700	4,910	5,080	5,880	6,780	6,870	6,180	6,350	6,510	6,720	7,040
75-79	3,210	3,290	4,390	4,580	5,330	6,170	6,280	5,670	5,840	6,020	6,240
80-84	2,310	2,630	2,760	3,720	3,920	4,600	5,370	5,490	4,990	5,180	5,360
85+	2,150	2,580	3,160	3,680	4,750	5,620	6,690	8,020	9,020	9,270	9,590
All ages	102,700	107,600	112,500	117,200	121,800	126,200	130,300	134,300	138,200	141,900	145,800

Age	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
0-15	17,300	18,300	18,900	19,200	19,700	20,300	21,000	21,700	22,300	22,800	23,200
16-64	68,600	70,400	71,900	72,900	74,000	76,000	78,100	80,200	82,400	84,500	86,700
65+	16,700	18,900	21,700	25,100	28,100	29,900	31,300	32,500	33,500	34,600	35,800

0-15	17%	17%	17%	16%	16%	16%	16%	16%	16%	16%	16%
16-64	67%	65%	64%	62%	61%	60%	60%	60%	60%	60%	59%
65+	16%	18%	19%	21%	23%	24%	24%	24%	24%	24%	25%

Dependency ratio	50%	53%	56%	61%	65%	66%	67%	67%	68%	68%	68%
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Net inward +1,000 persons

Outline: in this scenario, an additional 1,000 people move to the Island **over and above** the number that leave the Island, each year from 2016 onwards.

Figure 2.9 Projected total population size and broad age breakdown

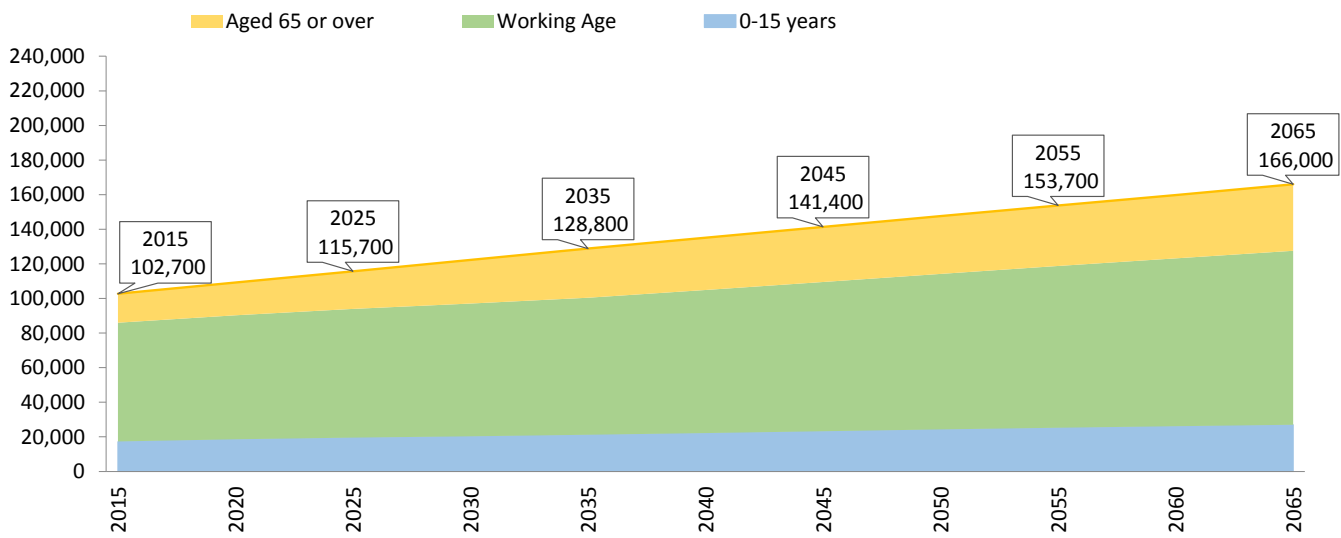


Table 2.9 Short, medium and long term summary demographics

	2025	2035	2065
65+ yr olds at year end	21,800	28,400	38,500
16 – 64 yr olds at year end	74,400	79,200	100,600
0 – 15 yr olds at year end	19,600	21,200	27,000
Total population at year end	115,700	128,800	166,000
<i>Dependency Ratio</i>	<i>56%</i>	<i>63%</i>	<i>65%</i>
Number of births during year	1,140	1,260	1,610
Number of deaths during year	840	990	1,340

Figure 2.10 Trend in age-group subpopulations, and dependency ratio

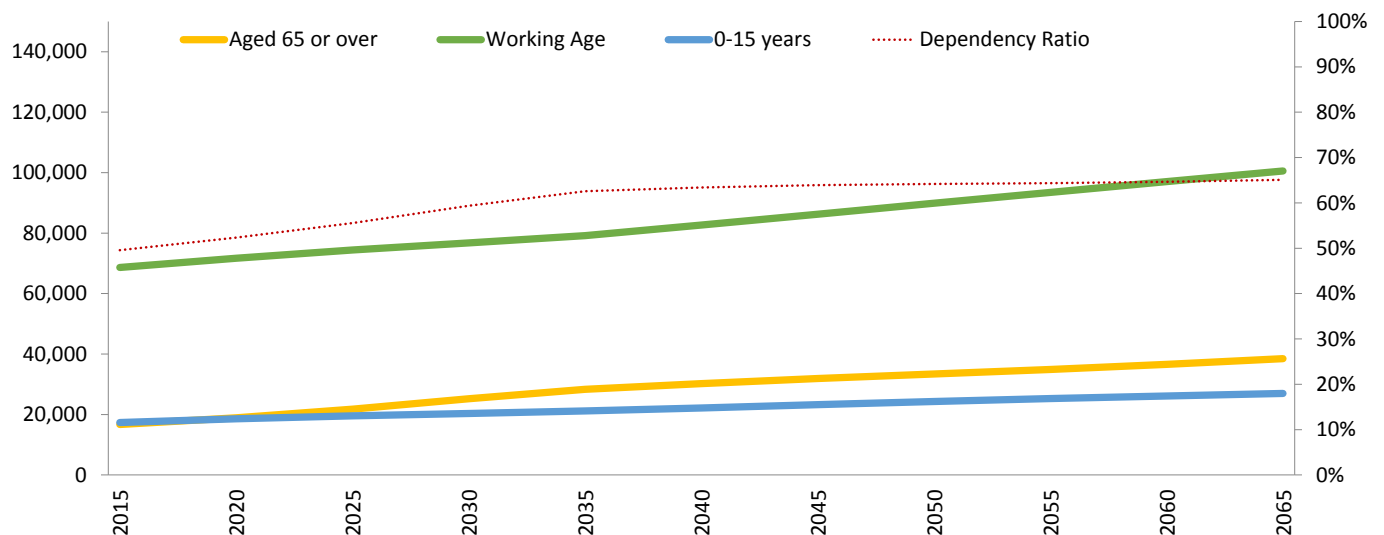


Table 2.10 Full detail: Net inward +1,000 persons

Age	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
0-4	5,420	5,560	5,800	6,080	6,370	6,710	7,070	7,350	7,600	7,860	8,120
5-9	5,470	5,860	6,060	6,290	6,570	6,870	7,210	7,570	7,860	8,110	8,370
10-14	5,390	5,990	6,380	6,600	6,840	7,130	7,430	7,780	8,130	8,430	8,700
15-19	5,720	5,840	6,460	6,870	7,100	7,350	7,650	7,970	8,320	8,680	8,990
20-24	5,890	6,140	6,270	6,870	7,280	7,530	7,780	8,080	8,400	8,750	9,120
25-29	6,550	7,020	7,330	7,510	8,130	8,570	8,840	9,120	9,440	9,780	10,150
30-34	7,220	7,530	8,040	8,370	8,580	9,210	9,660	9,950	10,250	10,590	10,940
35-39	7,410	7,700	8,030	8,550	8,890	9,110	9,730	10,180	10,480	10,790	11,130
40-44	7,480	7,810	8,110	8,450	8,980	9,320	9,540	10,160	10,610	10,920	11,230
45-49	8,430	7,630	7,930	8,220	8,580	9,100	9,430	9,660	10,260	10,720	11,020
50-54	8,220	8,400	7,620	7,900	8,190	8,560	9,070	9,400	9,620	10,220	10,660
55-59	6,990	8,060	8,210	7,460	7,730	8,020	8,380	8,890	9,210	9,430	10,020
60-64	5,810	6,720	7,740	7,880	7,160	7,430	7,710	8,080	8,570	8,890	9,110
65-69	5,320	5,490	6,360	7,330	7,470	6,790	7,050	7,330	7,700	8,180	8,490
70-74	3,700	4,910	5,090	5,910	6,840	6,970	6,350	6,610	6,880	7,250	7,720
75-79	3,210	3,290	4,400	4,590	5,360	6,230	6,370	5,820	6,080	6,350	6,720
80-84	2,310	2,640	2,760	3,730	3,930	4,630	5,420	5,570	5,120	5,380	5,660
85+	2,150	2,590	3,170	3,680	4,760	5,630	6,720	8,080	9,120	9,440	9,860
All ages	102,700	109,200	115,700	122,300	128,800	135,100	141,400	147,600	153,700	159,800	166,000

Age	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
0-15	17,300	18,600	19,600	20,300	21,200	22,200	23,200	24,300	25,300	26,100	27,000
16-64	68,600	71,700	74,400	76,700	79,200	82,700	86,300	89,900	93,500	97,000	100,600
65+	16,700	18,900	21,800	25,200	28,400	30,300	31,900	33,400	34,900	36,600	38,500
0-15	17%	17%	17%	17%	16%	16%	16%	16%	16%	16%	16%
16-64	67%	66%	64%	63%	62%	61%	61%	61%	61%	61%	61%
65+	16%	17%	19%	21%	22%	22%	23%	23%	23%	23%	23%

Dependency ratio	50%	52%	56%	59%	63%	63%	64%	64%	64%	65%	65%
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Net inward +1,500 persons

Outline: in this scenario, an additional 1,500 people move to the Island **over and above** the number that leave the Island, each year from 2016 onwards.

Figure 2.11 Projected total population size and broad age breakdown

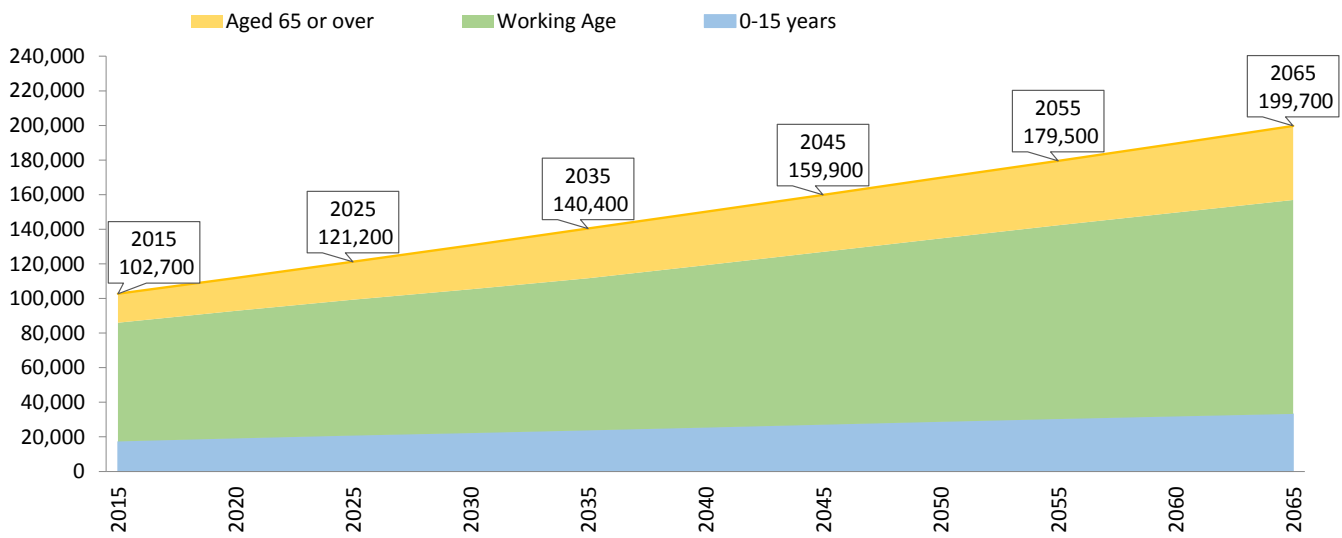


Table 2.11 Short, medium and long term summary demographics

	2025	2035	2065
65+ yr olds at year end	21,900	28,700	42,800
16 – 64 yr olds at year end	78,600	87,900	123,700
0 – 15 yr olds at year end	20,700	23,700	33,300
Total population at year end	121,200	140,400	199,700
<i>Dependency Ratio</i>	<i>54%</i>	<i>60%</i>	<i>62%</i>
Number of births during year	1,230	1,430	2,000
Number of deaths during year	850	1,010	1,440

Figure 2.12 Trend in age-group subpopulations, and dependency ratio

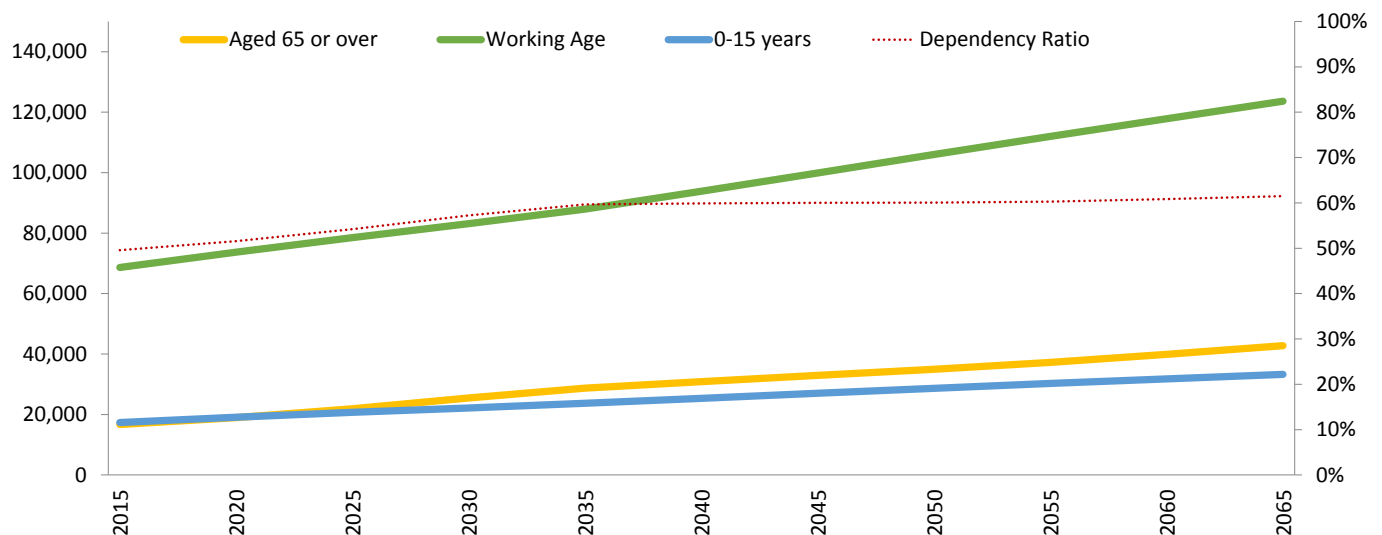


Table 2.12 Full detail: Net inward +1,500 persons

Age	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
0-4	5,420	5,720	6,200	6,700	7,190	7,710	8,250	8,730	9,180	9,620	10,070
5-9	5,470	6,020	6,400	6,870	7,360	7,850	8,370	8,920	9,410	9,860	10,320
10-14	5,390	6,130	6,730	7,140	7,600	8,100	8,610	9,140	9,690	10,200	10,660
15-19	5,720	5,940	6,740	7,370	7,810	8,290	8,810	9,330	9,880	10,450	10,970
20-24	5,890	6,340	6,600	7,390	8,030	8,490	8,980	9,500	10,030	10,580	11,150
25-29	6,550	7,430	7,980	8,340	9,190	9,870	10,390	10,920	11,480	12,050	12,630
30-34	7,220	7,940	8,830	9,430	9,850	10,720	11,440	11,980	12,550	13,140	13,730
35-39	7,410	8,000	8,690	9,580	10,190	10,620	11,490	12,210	12,760	13,340	13,940
40-44	7,480	8,070	8,640	9,330	10,220	10,820	11,260	12,120	12,850	13,410	13,990
45-49	8,430	7,800	8,330	8,870	9,560	10,430	11,020	11,450	12,300	13,020	13,570
50-54	8,220	8,530	7,900	8,390	8,920	9,600	10,450	11,030	11,450	12,280	12,990
55-59	6,990	8,140	8,400	7,790	8,250	8,770	9,440	10,260	10,820	11,240	12,060
60-64	5,810	6,770	7,850	8,090	7,500	7,940	8,440	9,090	9,880	10,430	10,840
65-69	5,320	5,510	6,410	7,440	7,660	7,100	7,530	8,010	8,640	9,410	9,940
70-74	3,700	4,920	5,110	5,960	6,930	7,150	6,630	7,040	7,500	8,120	8,860
75-79	3,210	3,290	4,410	4,610	5,400	6,310	6,530	6,070	6,470	6,920	7,510
80-84	2,310	2,640	2,770	3,740	3,950	4,670	5,500	5,710	5,340	5,720	6,160
85+	2,150	2,590	3,180	3,700	4,780	5,660	6,770	8,170	9,290	9,720	10,320
All ages	102,700	111,800	121,200	130,700	140,400	150,100	159,900	169,700	179,500	189,500	199,700

Age	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
0-15	17,300	19,100	20,700	22,200	23,700	25,300	27,000	28,700	30,300	31,800	33,300
16-64	68,600	73,700	78,600	83,100	87,900	93,900	99,900	106,000	112,000	117,800	123,700
65+	16,700	19,000	21,900	25,400	28,700	30,900	33,000	35,000	37,200	39,900	42,800

0-15	17%	17%	17%	17%	17%	17%	17%	17%	17%	17%	17%
16-64	67%	66%	65%	64%	63%	63%	62%	62%	62%	62%	62%
65+	16%	17%	18%	19%	20%	21%	21%	21%	21%	21%	21%

Dependency ratio	50%	52%	54%	57%	60%	60%	60%	60%	60%	61%	62%
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Net inward +2,000 persons

Outline: in this scenario, an additional 2,000 people move to the Island **over and above** the number that leave the Island, each year from 2016 onwards.

Figure 2.13 Projected total population size and broad age breakdown

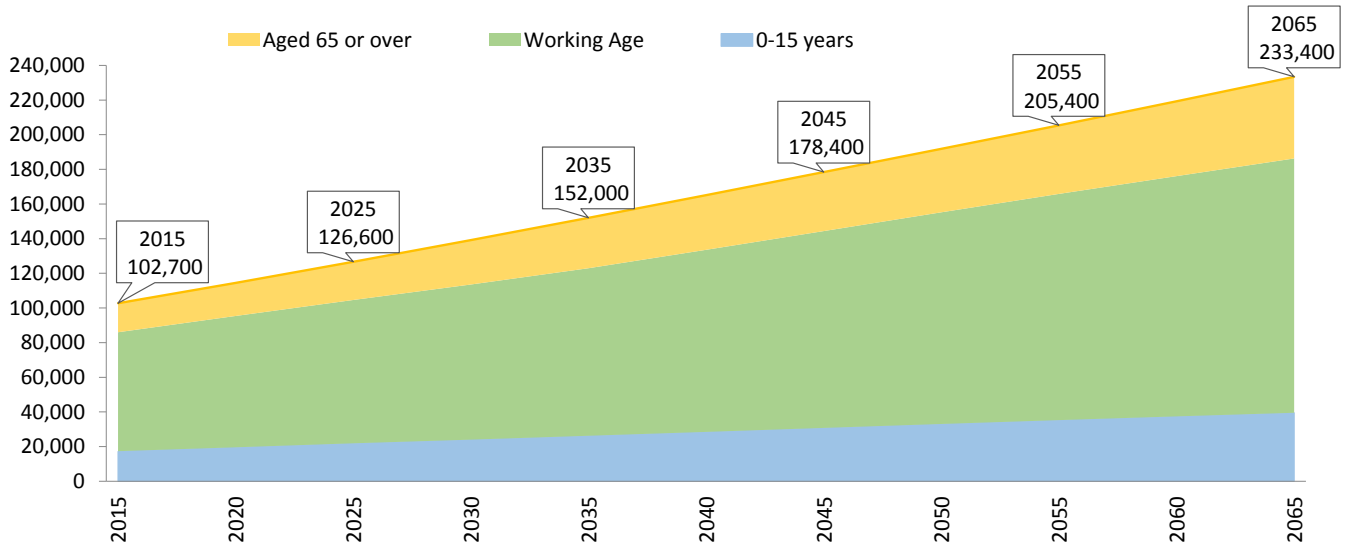


Table 2.13 Short, medium and long term summary demographics

	2025	2035	2065
65+ yr olds at year end	22,000	29,100	47,100
16 – 64 yr olds at year end	82,700	96,700	146,800
0 – 15 yr olds at year end	21,900	26,200	39,500
Total population at year end	126,600	152,000	233,400
<i>Dependency Ratio</i>	<i>53%</i>	<i>57%</i>	<i>59%</i>
Number of births during year	1,320	1,590	2,390
Number of deaths during year	850	1,030	1,540

Figure 2.14 Trend in age-group subpopulations, and dependency ratio

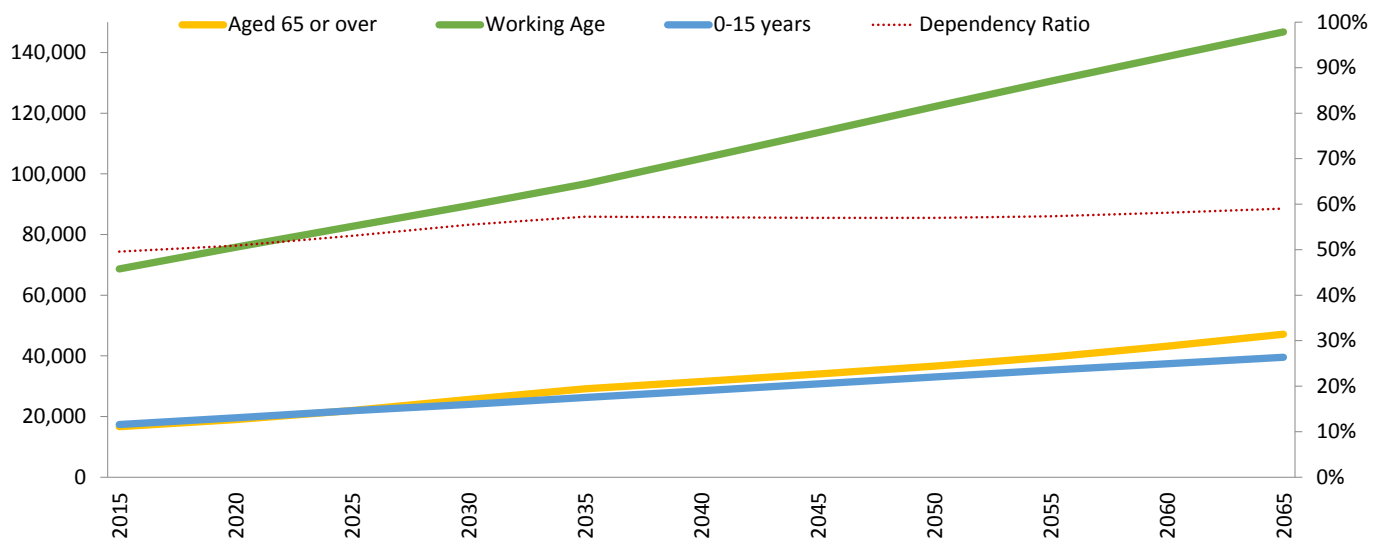


Table 2.14 Full detail: Net inward +2,000 persons

Age	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
0-4	5,420	5,880	6,600	7,320	8,010	8,710	9,440	10,110	10,750	11,390	12,020
5-9	5,470	6,180	6,750	7,440	8,140	8,830	9,540	10,270	10,960	11,610	12,260
10-14	5,390	6,280	7,070	7,690	8,370	9,070	9,780	10,500	11,250	11,960	12,630
15-19	5,720	6,040	7,020	7,860	8,520	9,240	9,970	10,700	11,450	12,220	12,940
20-24	5,890	6,540	6,930	7,910	8,770	9,450	10,180	10,920	11,660	12,410	13,180
25-29	6,550	7,840	8,630	9,180	10,250	11,180	11,930	12,730	13,520	14,320	15,120
30-34	7,220	8,350	9,620	10,500	11,120	12,240	13,220	14,020	14,850	15,690	16,520
35-39	7,410	8,300	9,350	10,610	11,500	12,140	13,250	14,240	15,050	15,890	16,740
40-44	7,480	8,320	9,170	10,210	11,450	12,330	12,980	14,090	15,080	15,900	16,750
45-49	8,430	7,970	8,720	9,530	10,550	11,760	12,610	13,250	14,340	15,320	16,130
50-54	8,220	8,650	8,180	8,870	9,650	10,640	11,820	12,650	13,280	14,350	15,310
55-59	6,990	8,220	8,590	8,120	8,780	9,530	10,490	11,630	12,430	13,050	14,090
60-64	5,810	6,810	7,960	8,290	7,830	8,450	9,170	10,100	11,190	11,970	12,570
65-69	5,320	5,530	6,470	7,550	7,860	7,420	8,000	8,690	9,580	10,640	11,400
70-74	3,700	4,920	5,130	6,010	7,030	7,320	6,910	7,470	8,120	8,990	10,000
75-79	3,210	3,300	4,420	4,630	5,450	6,400	6,680	6,320	6,850	7,480	8,310
80-84	2,310	2,640	2,770	3,750	3,970	4,710	5,570	5,840	5,560	6,070	6,650
85+	2,150	2,590	3,180	3,710	4,800	5,690	6,830	8,270	9,460	10,000	10,780
All ages	102,700	114,400	126,600	139,200	152,000	165,100	178,400	191,800	205,400	219,300	233,400

Age	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
0-15	17,300	19,600	21,900	24,000	26,200	28,500	30,800	33,000	35,300	37,400	39,500
16-64	68,600	75,800	82,700	89,500	96,700	105,100	113,600	122,200	130,600	138,700	146,800
65+	16,700	19,000	22,000	25,700	29,100	31,500	34,000	36,600	39,600	43,200	47,100

0-15	17%	17%	17%	17%	17%	17%	17%	17%	17%	17%	17%
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16-64	67%	66%	65%	64%	64%	64%	64%	64%	64%	63%	63%
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65+	16%	17%	17%	18%	19%	19%	19%	19%	19%	20%	20%
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Dependency ratio	50%	51%	53%	55%	57%	57%	57%	57%	57%	58%	59%
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Maintaining the size of the Registered and Licensed population

Outline: in this scenario, the number of newcomers to Jersey is set in order to maintain the size of the registered and licensed populations at the same level as at the end of 2015. **The overall net migration averages 600 persons per year into the Island, every year for the next 30 years.**

Figure 2.15 Projected total population size and broad age breakdown

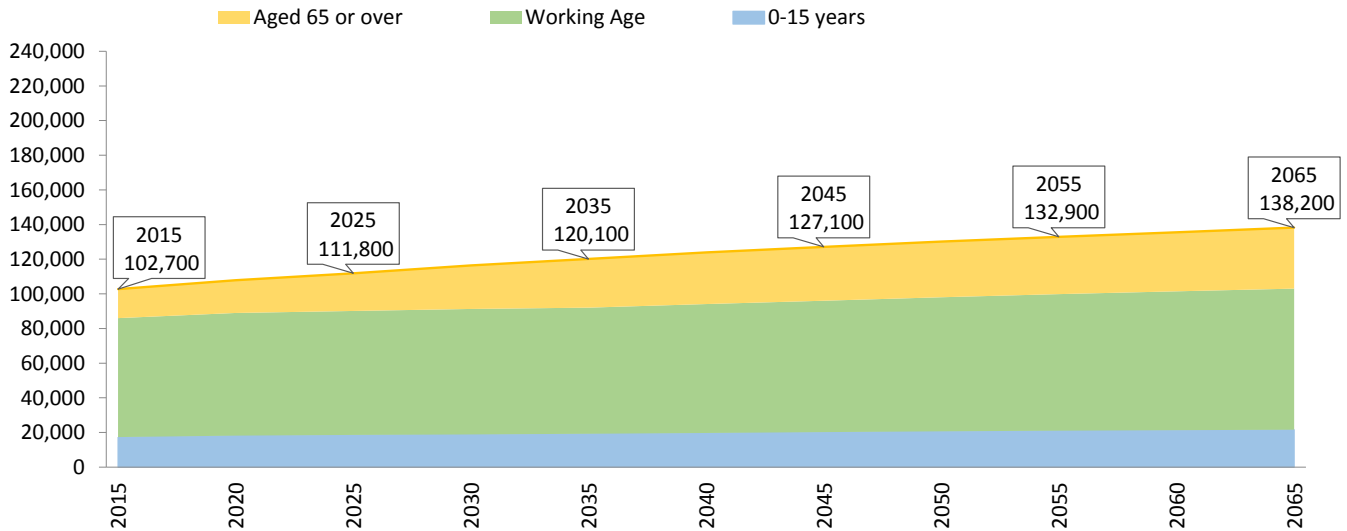


Table 2.15 Short, medium and long term summary demographics

	2025	2035	2065
65+ yr olds at year end	21,700	28,100	35,100
16 – 64 yr olds at year end	71,500	72,800	81,400
0 – 15 yr olds at year end	18,600	19,300	21,600
Total population at year end	111,800	120,100	138,200
<i>Dependency Ratio</i>	<i>56%</i>	<i>65%</i>	<i>70%</i>
Number of births during year	1,090	1,150	1,290
Number of deaths during year	820	960	1,270

Figure 2.16 Trend in age-group subpopulations, and dependency ratio

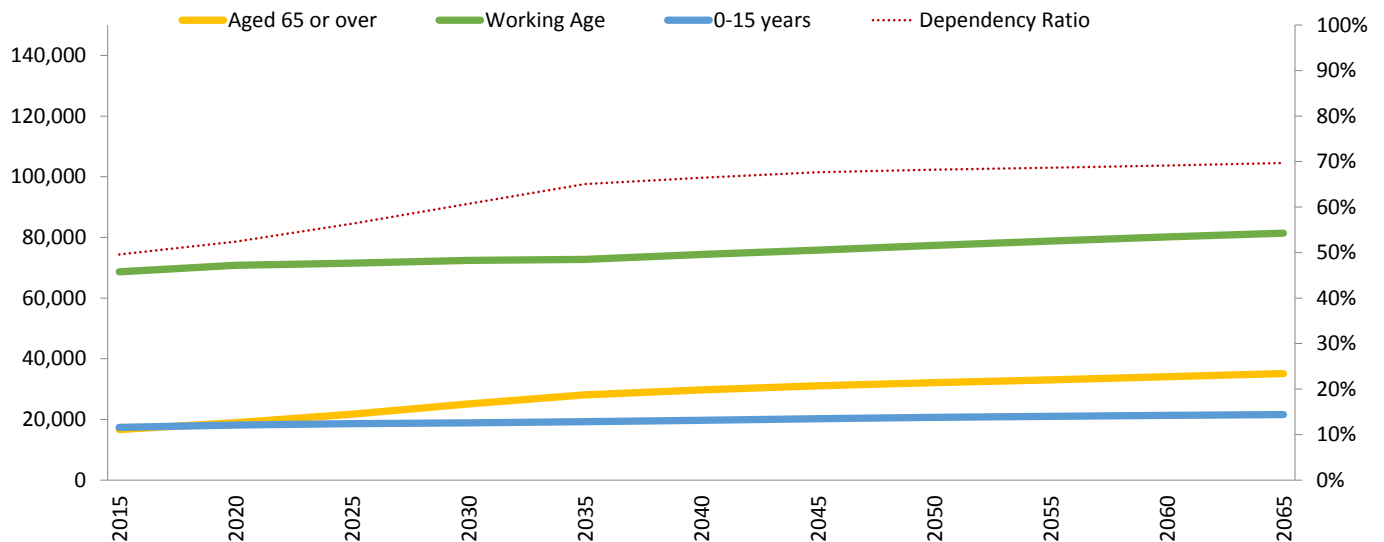


Table 2.16 Full detail: Maintain size of registered and licensed population

Age	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
0-4	5,420	5,500	5,560	5,700	5,840	6,000	6,180	6,280	6,360	6,430	6,530
5-9	5,470	5,700	5,760	5,840	5,970	6,110	6,270	6,440	6,540	6,620	6,690
10-14	5,390	5,830	6,000	6,090	6,160	6,290	6,430	6,590	6,750	6,850	6,930
15-19	5,720	5,770	6,180	6,370	6,450	6,530	6,650	6,790	6,950	7,110	7,210
20-24	5,890	6,120	6,080	6,530	6,670	6,770	6,820	6,960	7,080	7,230	7,390
25-29	6,550	6,960	6,980	7,090	7,410	7,620	7,670	7,750	7,860	7,990	8,130
30-34	7,220	7,390	7,590	7,770	7,760	8,150	8,300	8,390	8,450	8,570	8,680
35-39	7,410	7,550	7,600	7,920	8,020	8,060	8,410	8,580	8,650	8,720	8,830
40-44	7,480	7,650	7,690	7,850	8,120	8,250	8,270	8,620	8,780	8,860	8,920
45-49	8,430	7,510	7,600	7,710	7,850	8,150	8,260	8,290	8,630	8,800	8,870
50-54	8,220	8,310	7,380	7,510	7,600	7,770	8,060	8,180	8,210	8,550	8,710
55-59	6,990	7,990	8,040	7,180	7,290	7,400	7,580	7,870	7,990	8,020	8,350
60-64	5,810	6,700	7,650	7,710	6,880	7,000	7,120	7,300	7,590	7,720	7,750
65-69	5,320	5,490	6,320	7,250	7,310	6,540	6,660	6,780	6,980	7,270	7,400
70-74	3,700	4,910	5,080	5,880	6,760	6,830	6,120	6,250	6,380	6,590	6,880
75-79	3,210	3,290	4,390	4,580	5,330	6,160	6,250	5,610	5,760	5,900	6,120
80-84	2,310	2,640	2,760	3,720	3,920	4,600	5,360	5,460	4,940	5,100	5,260
85+	2,150	2,590	3,160	3,680	4,760	5,620	6,690	8,010	8,990	9,210	9,490
All ages	102,700	107,900	111,800	116,400	120,100	123,900	127,100	130,200	132,900	135,500	138,200

Age	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
0-15	17,300	18,200	18,600	18,900	19,300	19,700	20,200	20,700	21,000	21,300	21,600
16-64	68,600	70,800	71,500	72,400	72,800	74,400	75,800	77,400	78,800	80,100	81,400
65+	16,700	18,900	21,700	25,100	28,100	29,700	31,100	32,100	33,100	34,100	35,100

0-15	17%	17%	17%	16%	16%	16%	16%	16%	16%	16%	16%
16-64	67%	66%	64%	62%	61%	60%	60%	59%	59%	59%	59%
65+	16%	18%	19%	22%	23%	24%	24%	25%	25%	25%	25%

Dependency ratio	50%	52%	56%	61%	65%	66%	68%	68%	69%	69%	70%
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Adding 200 Registered workers

Outline: in this scenario, the number of newcomers to Jersey is set at a level that increases the size of the registered population by **200** registered workers (plus their dependents), **each year for 10 years**, before maintaining the size of the registered population for the remainder of the projection. **This models the impact of granting 200 active business permissions over and above those taken away each year.** The size of the Licensed population is kept constant. **The overall net migration averages 900 persons per year for the first decade, and 700 persons per year for the subsequent 20 years.**

Figure 2.17 Projected total population size and broad age breakdown

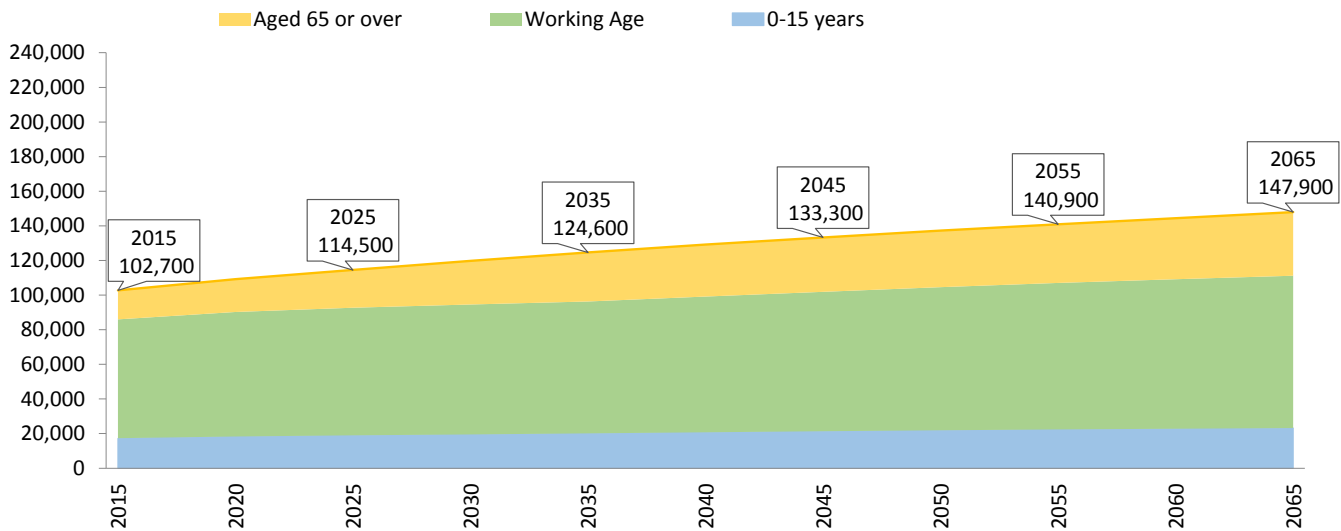


Table 2.18 Short, medium and long term summary demographics

	2025	2035	2065
<i>65+ yr olds at year end</i>	21,800	28,200	36,700
<i>16 – 64 yr olds at year end</i>	73,700	76,200	88,000
<i>0 – 15 yr olds at year end</i>	19,000	20,100	23,200
Total population at year end	114,500	124,600	147,900
<i>Dependency Ratio</i>	<i>55%</i>	<i>63%</i>	<i>68%</i>
Number of births during year	1,140	1,230	1,410
Number of deaths during year	830	970	1,300

Figure 2.17 Trend in age-group subpopulations, and dependency ratio

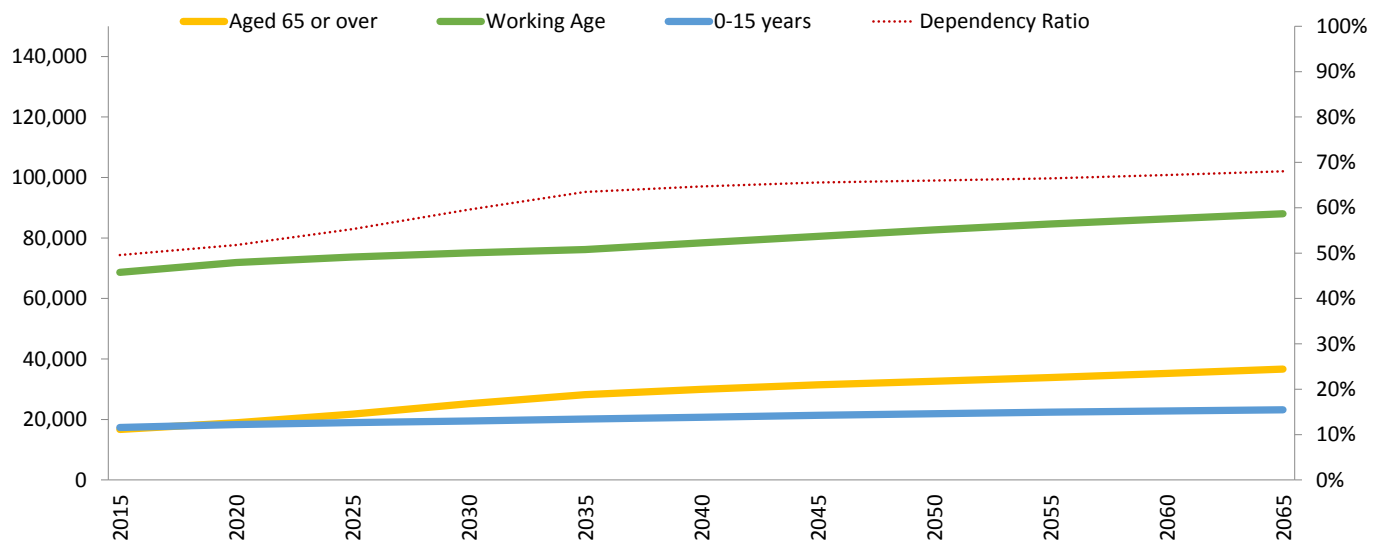


Table 2.18 Full detail: Adding 200 Registered workers

Age	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
0-4	5,420	5,580	5,790	6,010	6,200	6,390	6,590	6,730	6,840	6,970	7,100
5-9	5,470	5,730	5,860	6,050	6,250	6,440	6,630	6,820	6,960	7,080	7,200
10-14	5,390	5,860	6,070	6,210	6,370	6,570	6,750	6,940	7,130	7,270	7,380
15-19	5,720	5,820	6,270	6,480	6,620	6,780	6,970	7,160	7,350	7,540	7,670
20-24	5,890	6,270	6,300	6,740	6,930	7,070	7,210	7,410	7,580	7,760	7,940
25-29	6,550	7,250	7,430	7,500	7,880	8,100	8,210	8,360	8,540	8,710	8,870
30-34	7,220	7,630	8,070	8,300	8,330	8,730	8,920	9,040	9,180	9,360	9,520
35-39	7,410	7,690	7,940	8,410	8,600	8,650	9,030	9,220	9,340	9,470	9,650
40-44	7,480	7,750	7,920	8,200	8,640	8,840	8,870	9,250	9,440	9,560	9,690
45-49	8,430	7,580	7,750	7,940	8,220	8,660	8,850	8,890	9,260	9,450	9,560
50-54	8,220	8,360	7,490	7,670	7,850	8,140	8,570	8,760	8,800	9,170	9,350
55-59	6,990	8,030	8,120	7,290	7,460	7,640	7,930	8,360	8,550	8,590	8,960
60-64	5,810	6,710	7,690	7,780	6,990	7,160	7,350	7,650	8,070	8,260	8,310
65-69	5,320	5,500	6,350	7,290	7,380	6,640	6,810	7,000	7,300	7,720	7,910
70-74	3,700	4,910	5,090	5,900	6,800	6,900	6,210	6,390	6,590	6,890	7,300
75-79	3,210	3,290	4,400	4,590	5,350	6,200	6,300	5,700	5,890	6,090	6,400
80-84	2,310	2,640	2,760	3,730	3,930	4,620	5,390	5,510	5,020	5,220	5,430
85+	2,150	2,590	3,170	3,690	4,770	5,630	6,720	8,050	9,060	9,310	9,650
All ages	102,700	109,200	114,500	119,800	124,600	129,200	133,300	137,300	140,900	144,400	147,900
Age	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
0-15	17,300	18,300	19,000	19,500	20,100	20,700	21,400	21,900	22,400	22,800	23,200
16-64	68,600	71,900	73,700	75,100	76,200	78,400	80,500	82,700	84,600	86,400	88,000
65+	16,700	18,900	21,800	25,200	28,200	30,000	31,400	32,700	33,800	35,200	36,700
0-15	17%	17%	17%	16%	16%	16%	16%	16%	16%	16%	16%
16-64	67%	66%	64%	63%	61%	61%	60%	60%	60%	60%	60%
65+	16%	17%	19%	21%	23%	23%	24%	24%	24%	24%	25%
Dependency ratio	50%	52%	55%	60%	63%	65%	66%	66%	66%	67%	68%

Reducing Registered worker population by 200

Outline: in this scenario, the number of newcomers to Jersey is set at a level so that it reduces the size of the registered population, **by 200** registered workers (and their dependents), **each year for 10 years**, before maintaining the size of the registered population for the remainder of the projection. **This models the impact of removing 200 active business permissions over and above those granted in each year.** The size of the Licensed population is kept constant. **The overall net migration averages 400 persons per year for the first decade, and 500 persons per year for the subsequent 20 years.**

Figure 2.19 Projected total population size and broad age breakdown

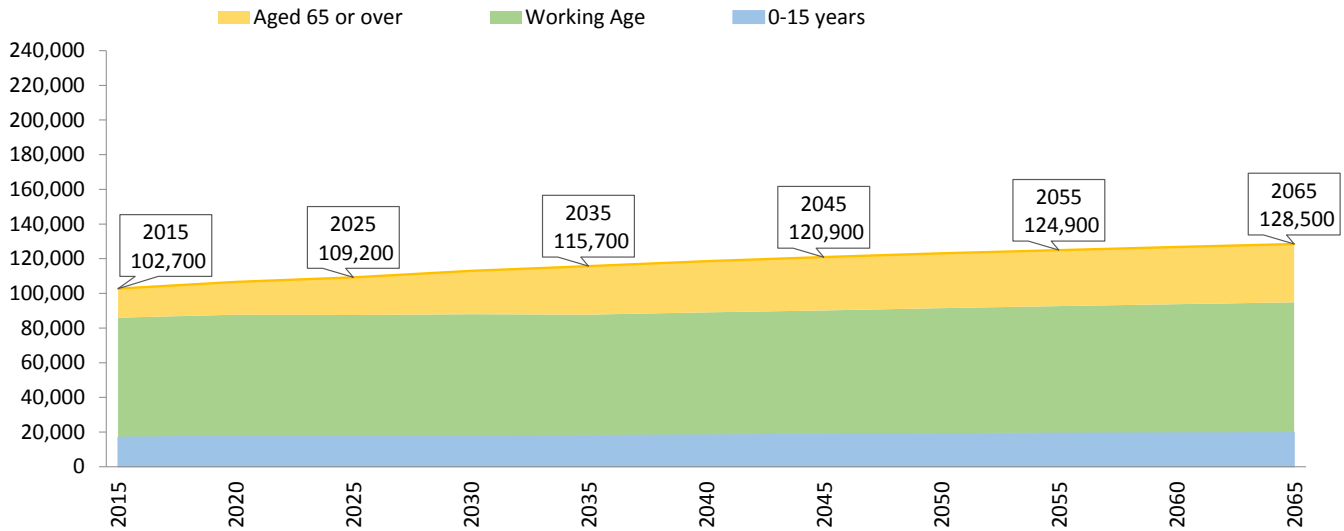


Table 2.19 Short, medium and long term summary demographics

	2025	2035	2065
<i>65+ yr olds at year end</i>	21,700	27,900	33,600
<i>16 – 64 yr olds at year end</i>	69,400	69,400	74,900
<i>0 – 15 yr olds at year end</i>	18,200	18,400	20,000
<i>Total population at year end</i>	109,200	115,700	128,500
<i>Dependency Ratio</i>	57%	67%	72%
Number of births during year	1,030	1,080	1,170
Number of deaths during year	820	960	1,240

Figure 2.20 Trend in age-group subpopulations, and dependency ratio

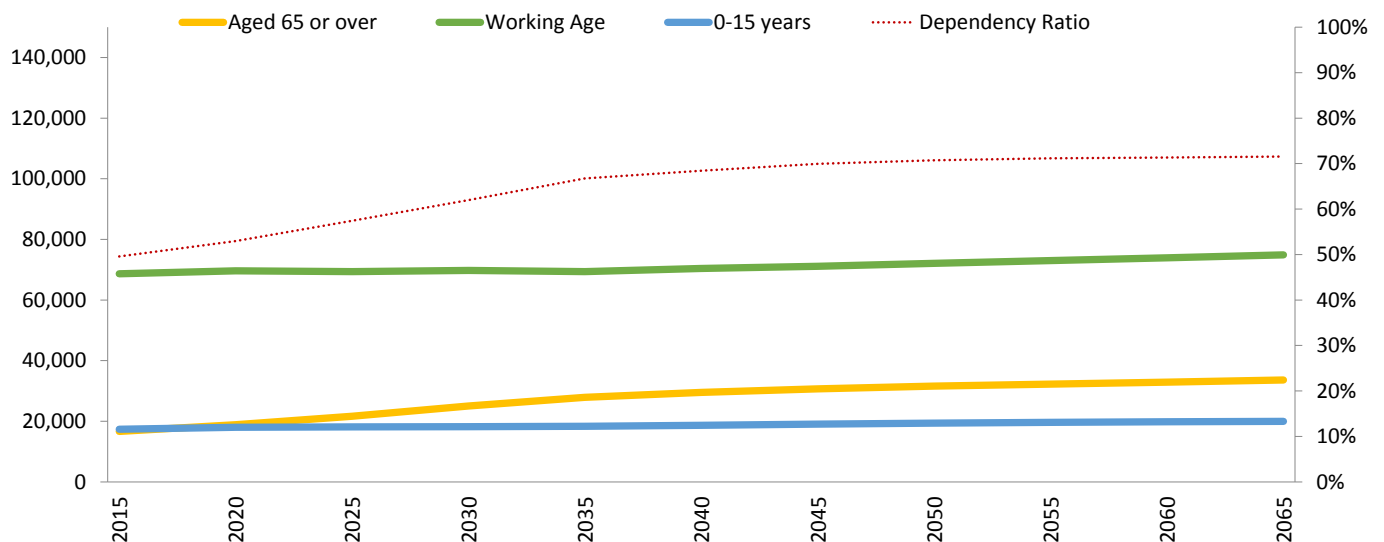


Table 2.20 Full detail: Reducing Registered worker population by 200

Age	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
0-4	5,420	5,420	5,340	5,390	5,480	5,610	5,770	5,830	5,870	5,900	5,960
5-9	5,470	5,660	5,650	5,640	5,690	5,780	5,900	6,060	6,120	6,160	6,190
10-14	5,390	5,800	5,930	5,970	5,950	6,020	6,100	6,230	6,380	6,440	6,480
15-19	5,720	5,730	6,090	6,260	6,290	6,280	6,330	6,420	6,550	6,690	6,750
20-24	5,890	5,970	5,850	6,320	6,400	6,480	6,440	6,510	6,590	6,710	6,850
25-29	6,550	6,680	6,520	6,680	6,940	7,130	7,140	7,140	7,190	7,280	7,390
30-34	7,220	7,150	7,110	7,240	7,200	7,570	7,690	7,730	7,720	7,780	7,850
35-39	7,410	7,400	7,260	7,440	7,440	7,470	7,790	7,940	7,970	7,960	8,020
40-44	7,480	7,540	7,470	7,500	7,600	7,660	7,660	7,990	8,130	8,160	8,150
45-49	8,430	7,440	7,450	7,480	7,480	7,630	7,670	7,690	8,010	8,140	8,180
50-54	8,220	8,260	7,270	7,350	7,360	7,410	7,550	7,600	7,610	7,930	8,070
55-59	6,990	7,960	7,970	7,070	7,120	7,160	7,220	7,370	7,420	7,440	7,750
60-64	5,810	6,680	7,610	7,640	6,770	6,840	6,890	6,960	7,120	7,180	7,200
65-69	5,320	5,480	6,300	7,210	7,240	6,430	6,510	6,560	6,650	6,820	6,880
70-74	3,700	4,900	5,070	5,860	6,720	6,770	6,020	6,110	6,180	6,290	6,460
75-79	3,210	3,290	4,390	4,570	5,310	6,130	6,190	5,530	5,630	5,720	5,840
80-84	2,310	2,630	2,750	3,710	3,910	4,580	5,330	5,410	4,860	4,990	5,100
85+	2,150	2,580	3,160	3,670	4,740	5,600	6,670	7,970	8,930	9,110	9,340
All ages	102,700	106,600	109,200	113,000	115,700	118,600	120,900	123,100	124,900	126,700	128,500

Age	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060	2065
0-15	17,300	18,000	18,200	18,200	18,400	18,700	19,000	19,400	19,700	19,800	20,000
16-64	68,600	69,700	69,400	69,800	69,400	70,400	71,100	72,100	73,000	73,900	74,900
65+	16,700	18,900	21,700	25,000	27,900	29,500	30,700	31,600	32,300	32,900	33,600

0-15	17%	17%	17%	16%	16%	16%	16%	16%	16%	16%	16%
16-64	67%	65%	64%	62%	60%	59%	59%	59%	58%	58%	58%
65+	16%	18%	20%	22%	24%	25%	25%	26%	26%	26%	26%

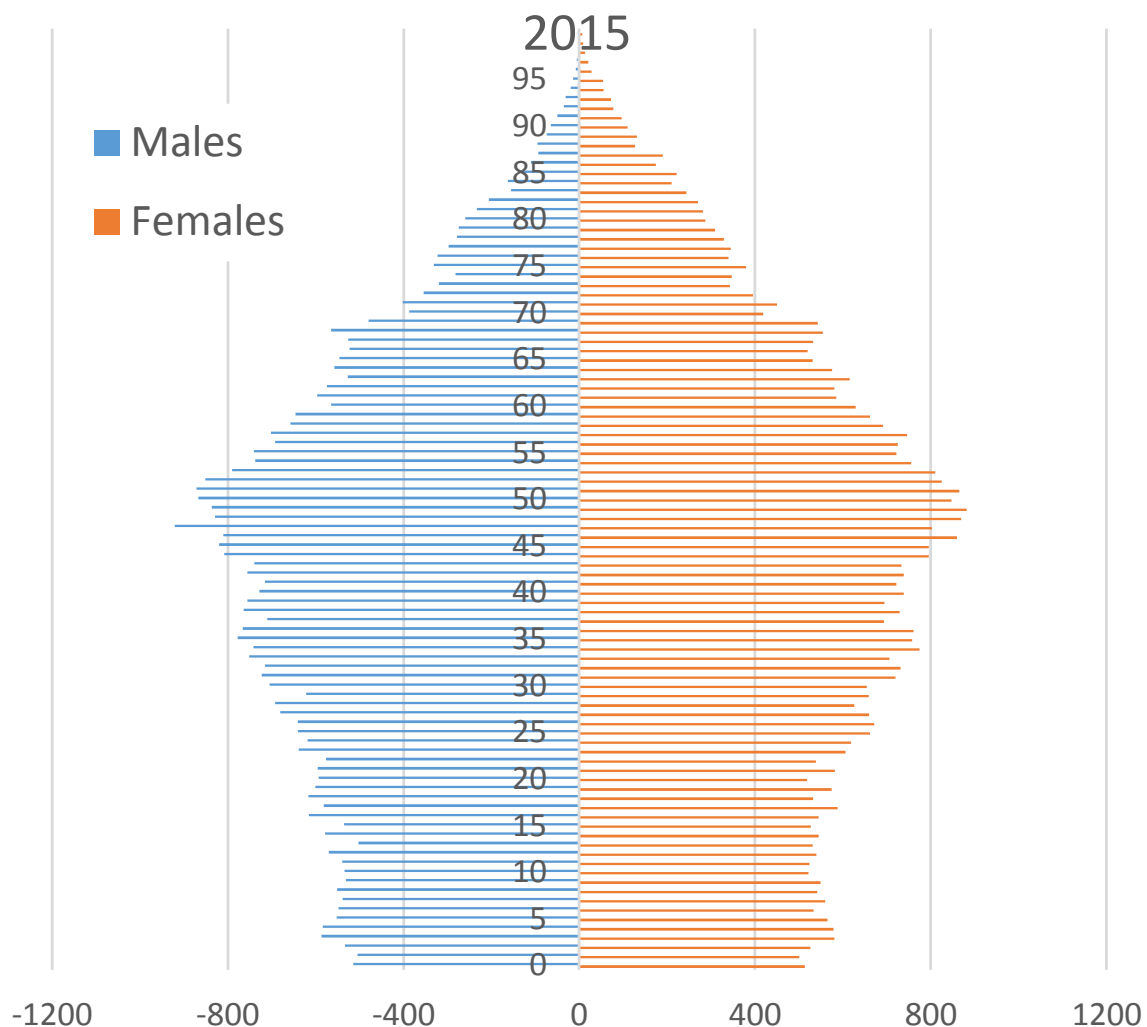
Dependency ratio

50%	53%	57%	62%	67%	68%	70%	71%	71%	71%	71%	72%
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Section 4 - Population pyramids

Notes on interpreting population pyramids

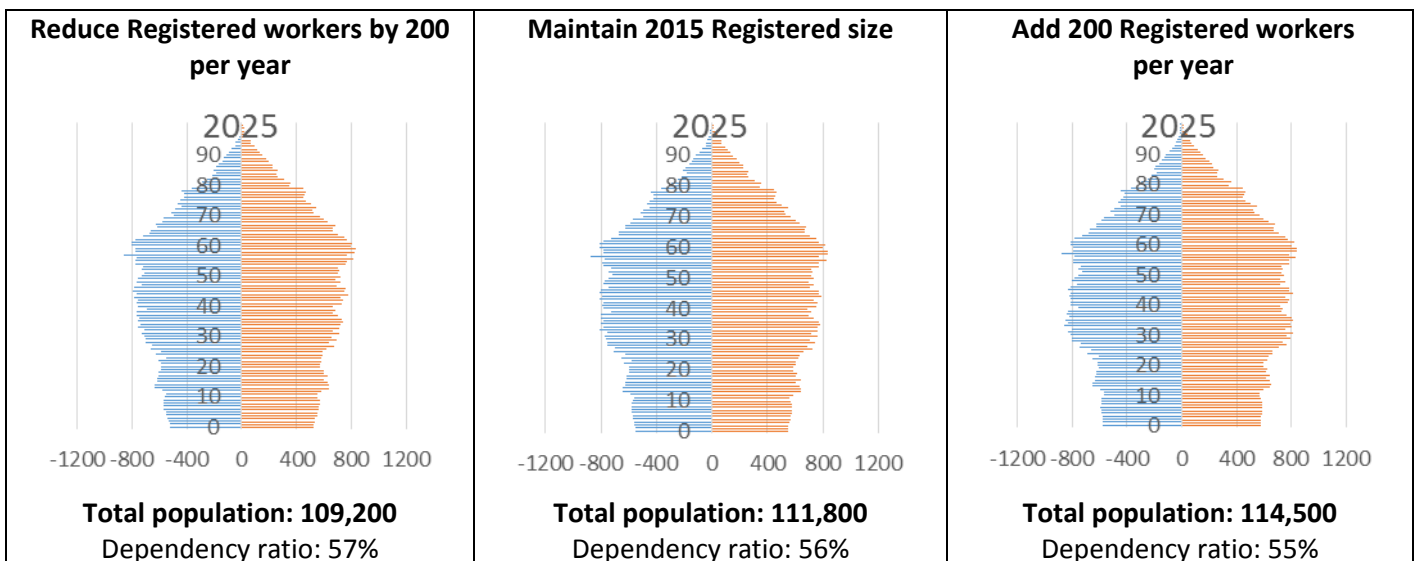
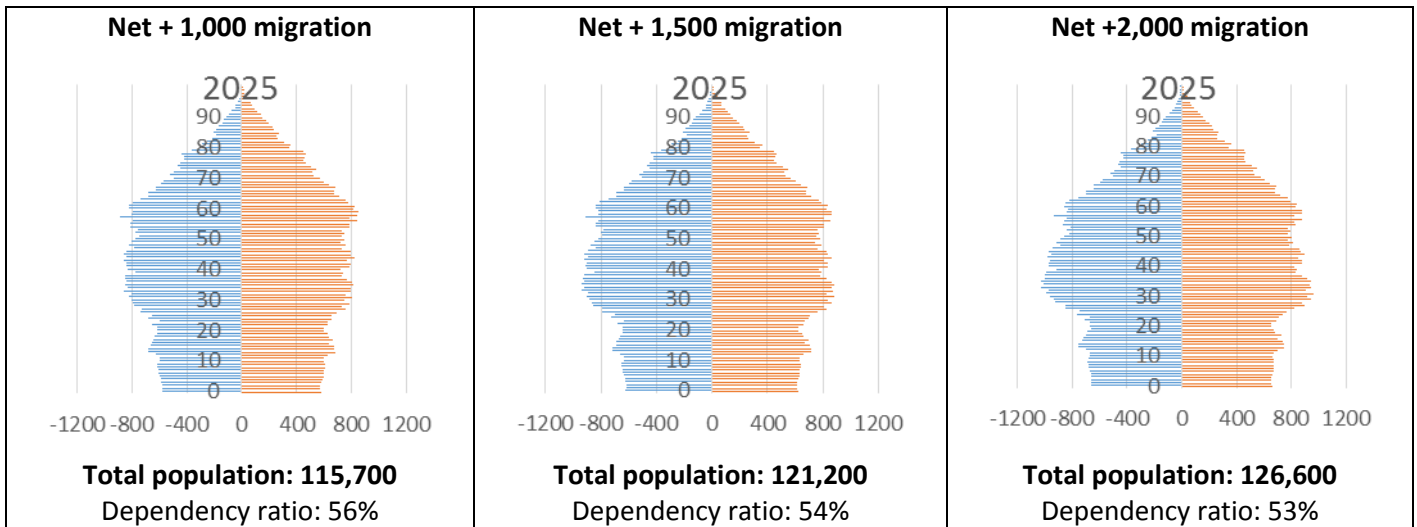
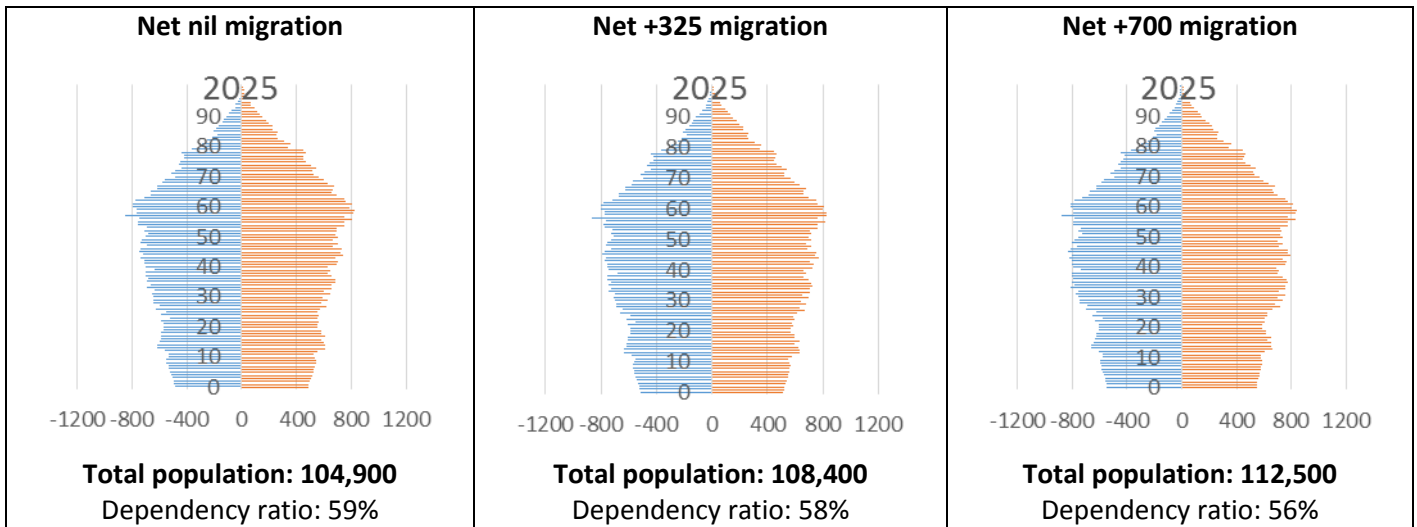
- The vertical axis represents the age of residents in years: from 0 to 100+ years
- Horizontally, the length of the blue bars to the left represent the number of males in each year of age; the red bars to the right represent the number of females in each year of age. For example the diagram below shows just under 400 females aged 0 in 2035.
- Population pyramids provide a visual image of the **structure** of the population in a particular year, for example it is easy to identify whether there is a larger number of people at older age groups than the younger age groups (as is the case in this example).
- The overall **size** of the population is shown by the overall size of the shape which is coloured in, both blue and red. A larger population will have a larger overall shape.
- Comparing population pyramids in a single year under different migration scenarios shows how the structure and size of the population is affected by the scenario.
- Pyramids representing one specific migration scenario can be compared through time to show how the size and structure of the population changes.



Population pyramids continued

(for notes on interpretation see page 26)

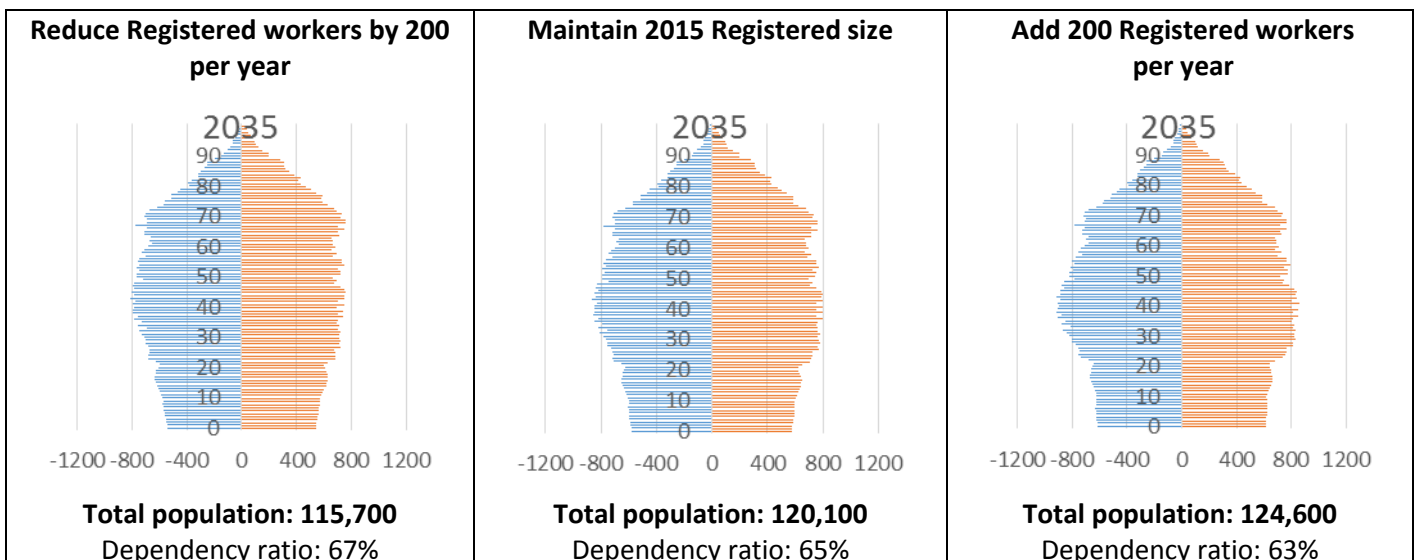
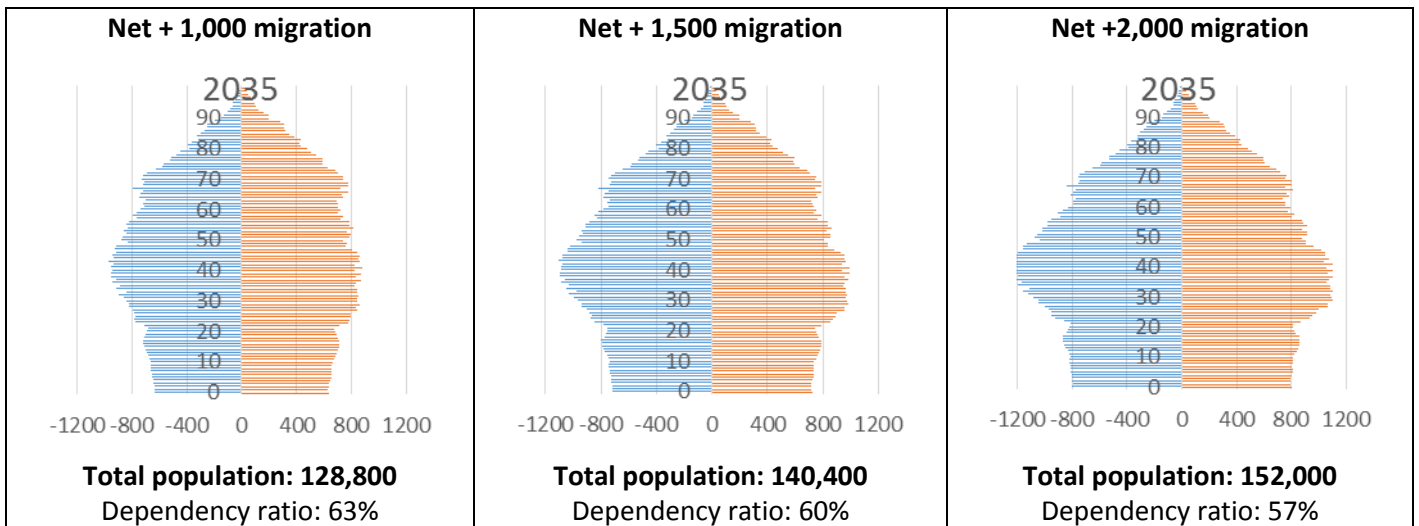
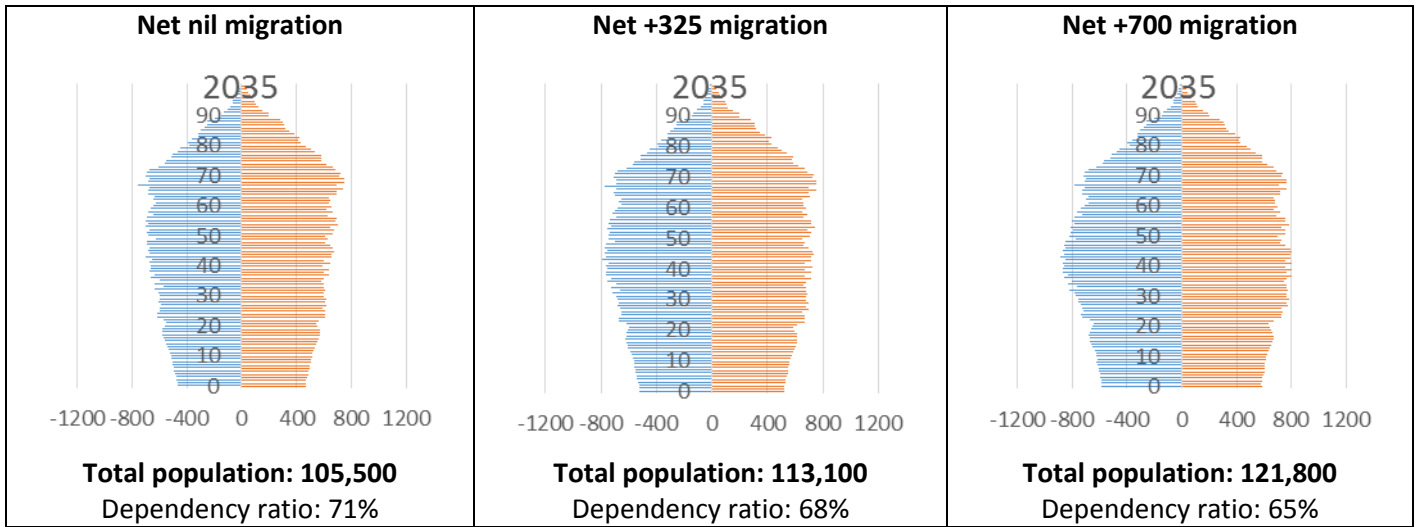
Year: 2025



Population pyramids continued

(for notes on interpretation see page 26)

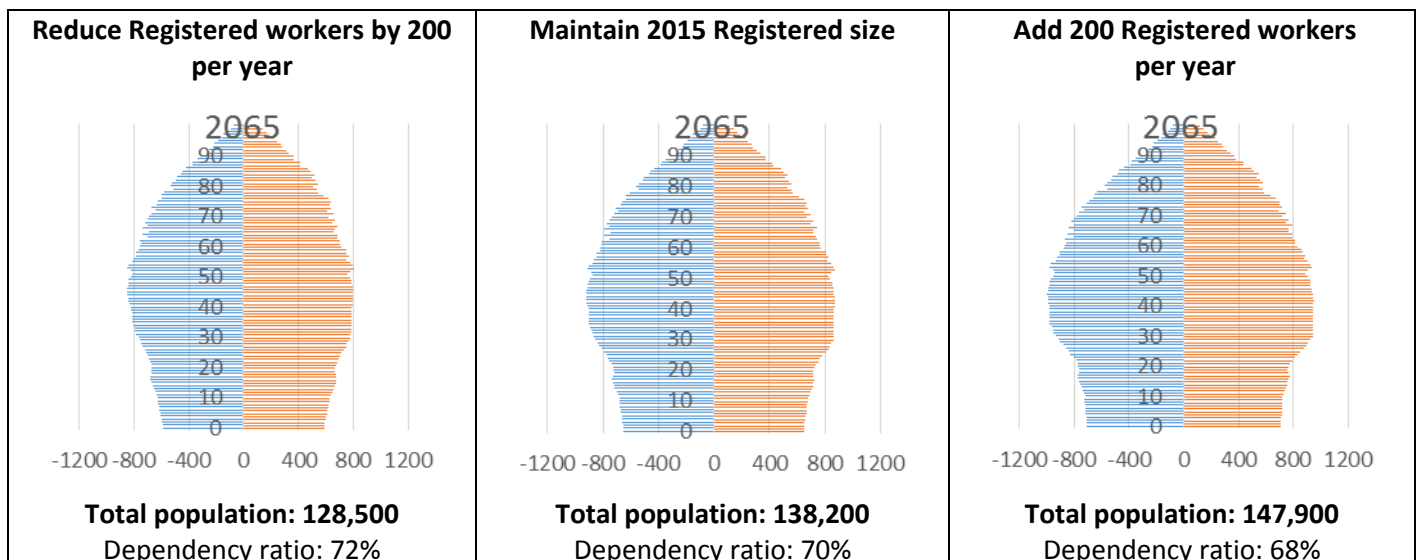
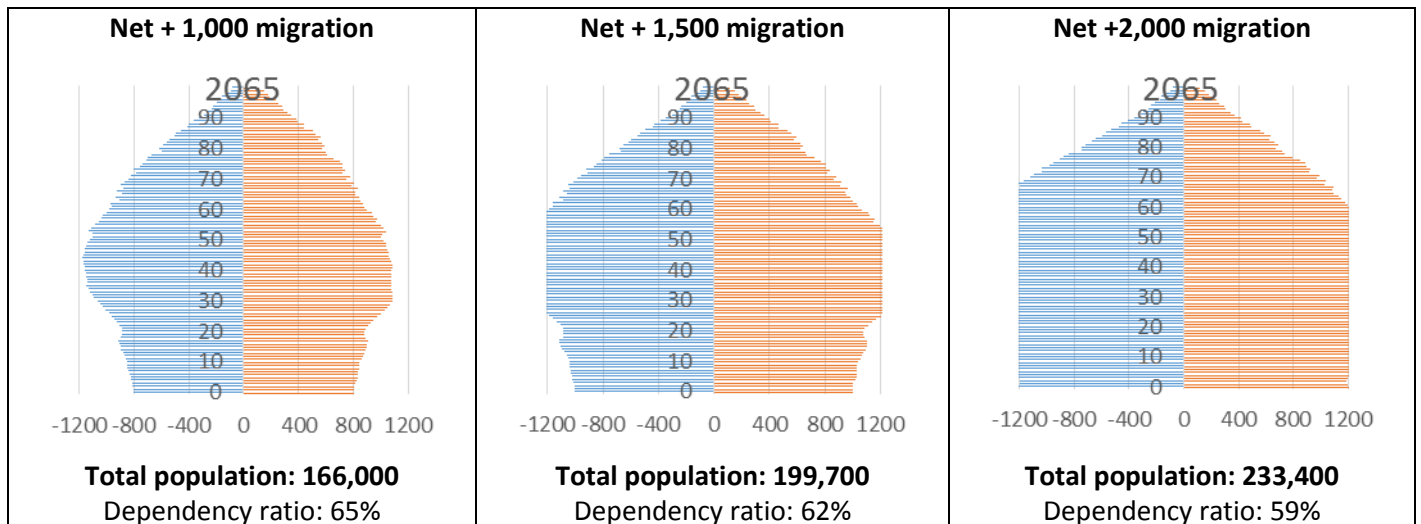
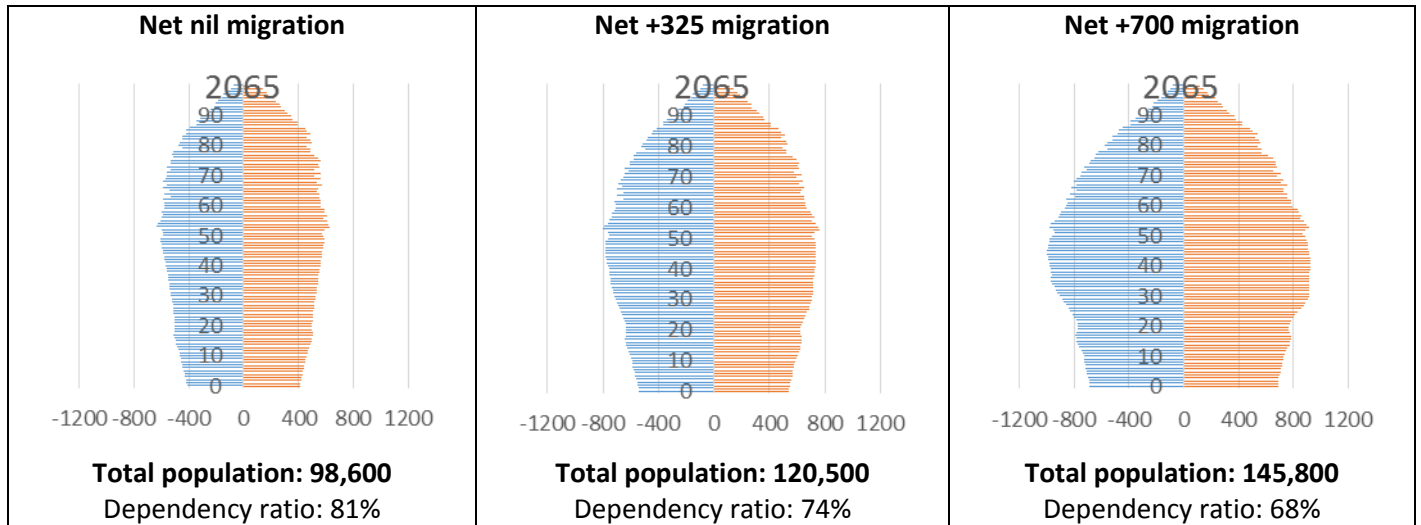
Year: 2035



Population pyramids continued

(for notes on interpretation see page 26)

Year: 2065



Appendix I – Sensitivity analyses

Fertility assumptions

The principal projection is for Jersey’s total fertility rate² (TFR) to remain at 1.55. Jersey’s fertility rate has remained fairly constant at around 1.5 over the past 40 years. The high variant projection is for Jersey’s fertility rates to increase by 1% at each age, each year for 10 years, such that the TFR reaches 1.71 before staying constant. The low variant projection is for Jersey’s fertility rates to decrease by 1% at each age, each year for 10 years, such that the TFR reaches 1.40 before staying constant.

The net nil migration scenario projection was carried out under each of these three different fertility assumptions, and the results are shown below.

Figure A.1 Total population

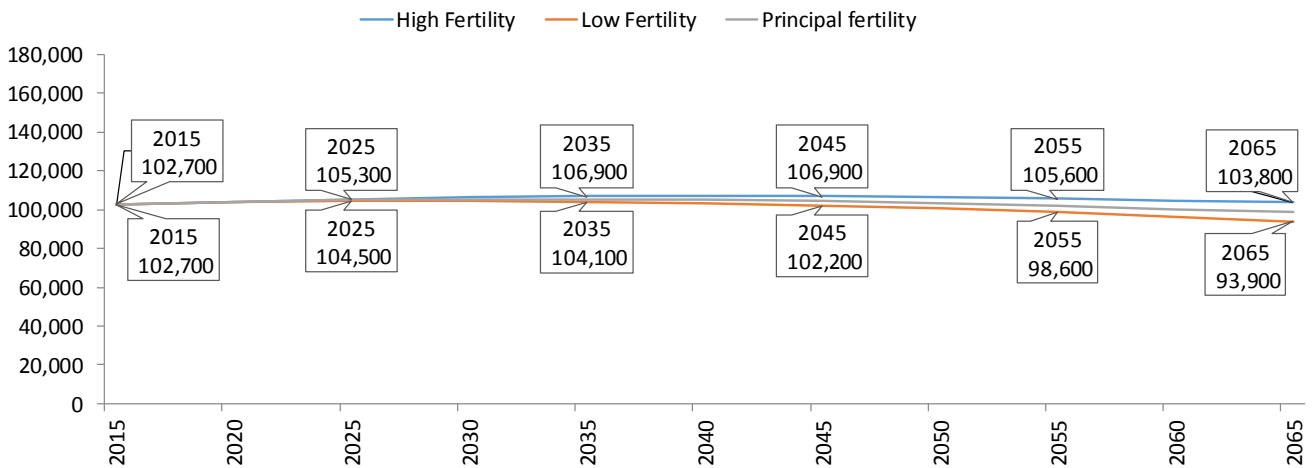
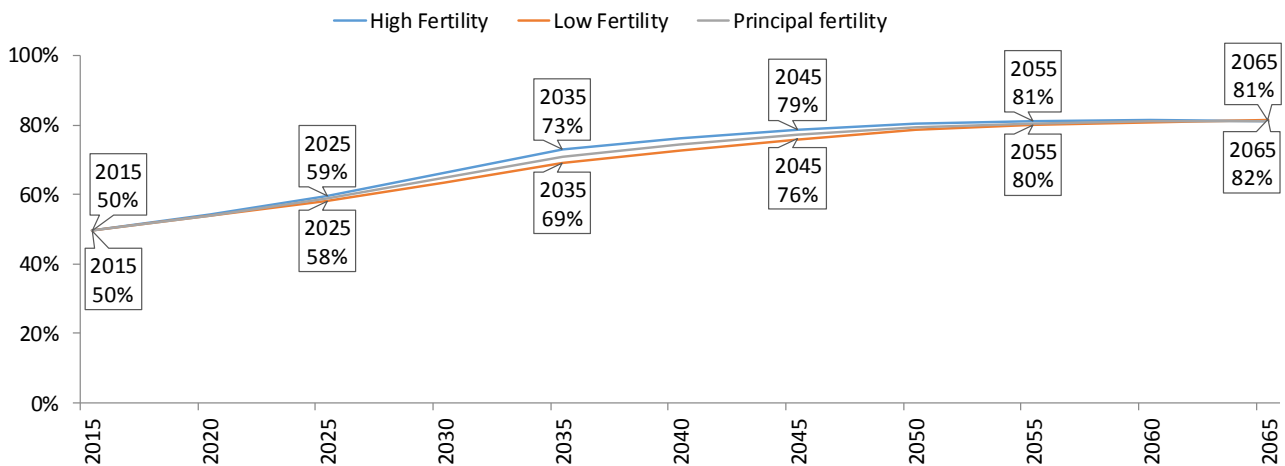


Figure A.2 Dependency ratio



² Total Fertility Rate is the sum of the age-specific fertility rates for women aged 15 – 49 years old in a given year.

Mortality assumptions

The Office for National Statistics (ONS) in the UK carry out detailed analysis on trends in mortality for different age groups, and include expert judgement on how those trends will continue into the future. These projected mortality rates for England, with high and low variants to indicate the range of uncertainty, have been slightly adjusted for use in Jersey to account for minor differences in mortality patterns seen between the jurisdictions (see Appendix II Methodology notes for more detail).

The net nil migration scenario projection was carried out under each of these three different fertility assumptions, and the results are shown below.

Figure B.1 Total population

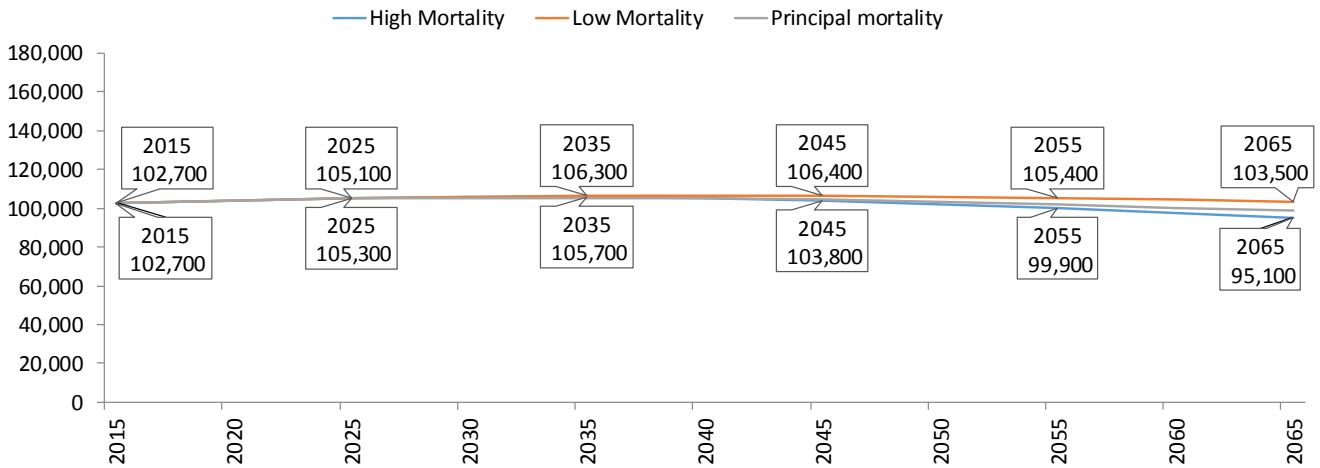
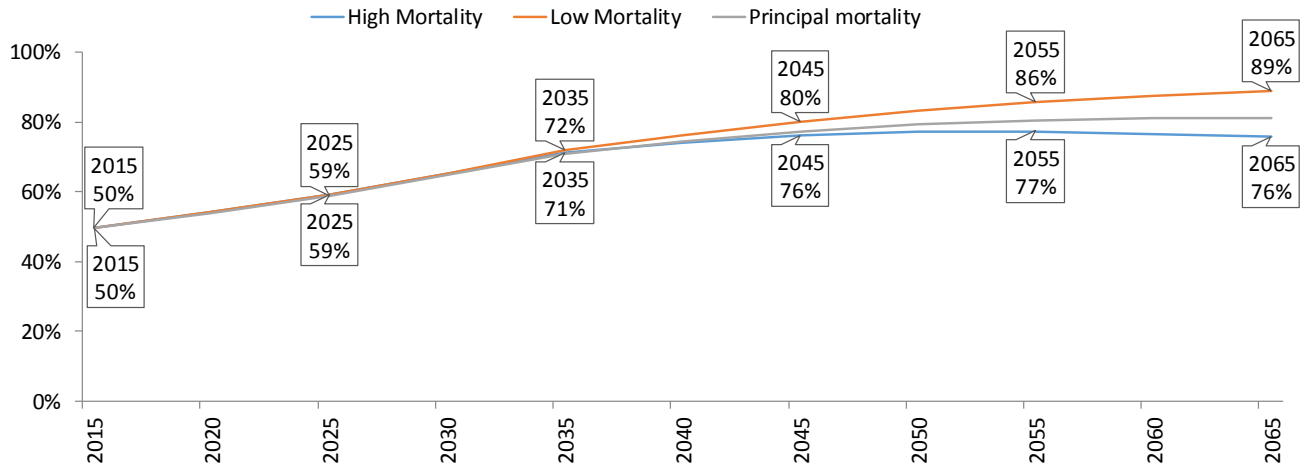


Figure B.2 Dependency ratio



Outward migration assumptions

Projecting migration patterns are a particularly challenging aspect of producing population projections due to the unpredictable nature of the range, level and timing of potential influencing factors. In order to explore the sensitivity of the assumptions to the particular migration patterns assumed, each probability of outward migration was adjusted upwards by 25% for the high variant and downwards by 25% for the low variant. Of course in reality, sub-groups of the population will respond differently to influencing factors, however this provides an indication of the sensitivity of the results of the projections to the outward migration probabilities.

The +700 net migration scenario projection was carried out under these different assumptions of outward migration probabilities, and the results are shown below.

Figure C.1 Total population

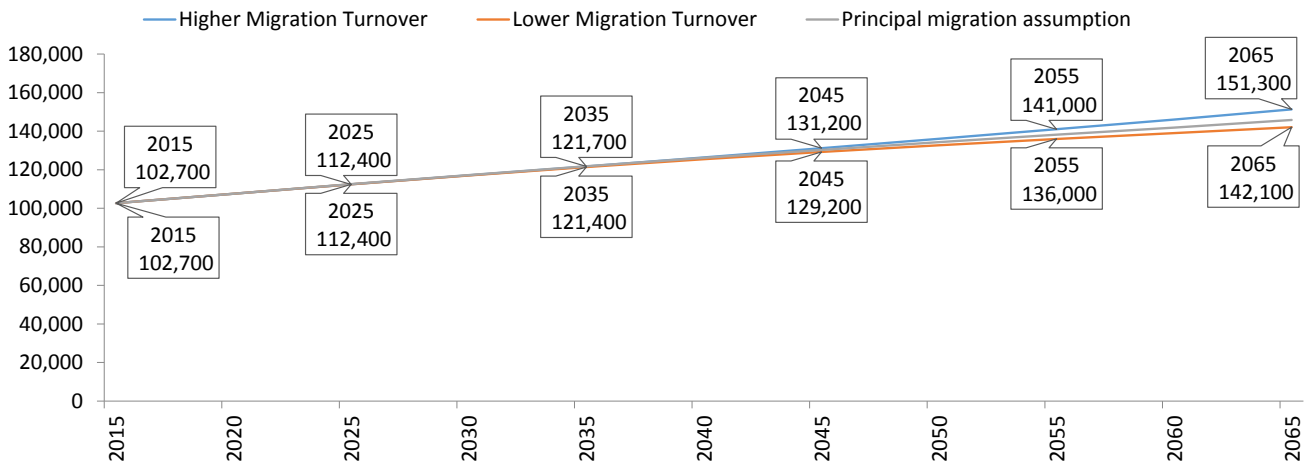
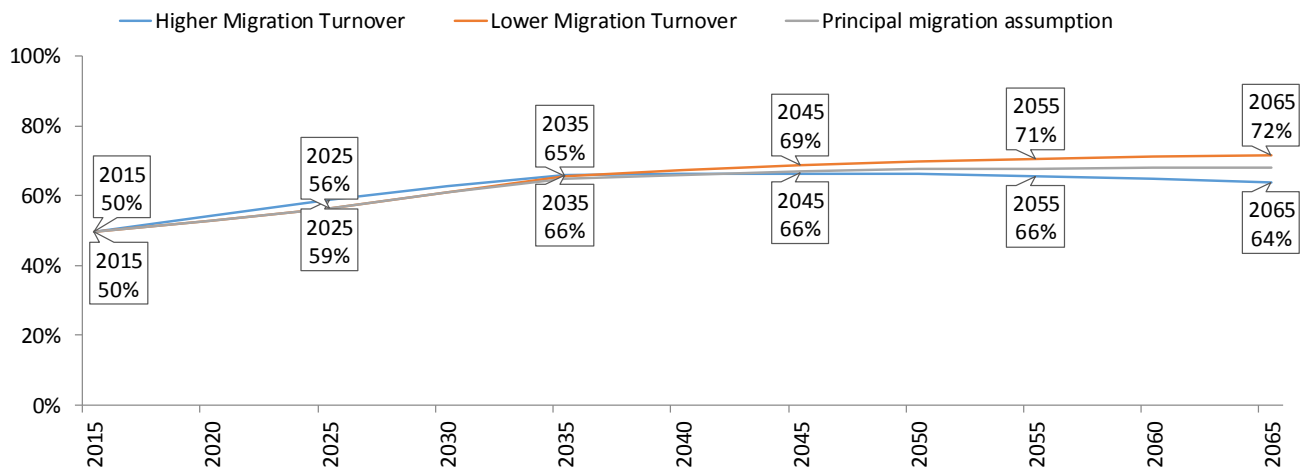


Figure C.2 Dependency ratio



Appendix II – Methodology notes

Births

- The likely numbers of births in each year are estimated by applying age-specific fertility rates to women aged between 15 and 49 years old.
- Age-specific fertility rates were calculated using numbers of births by age of mother in Jersey over recent years, and give the number of children that a woman in Jersey of each age is likely to have each year.
- Age-specific fertility rates change over time due to several trends such as overall family size, and timing of births. For example, a recent trend seen in the UK has been for women to delay having their first child until later in life.
- Projecting the age-specific fertility rates that will be relevant to each of the next 50 years is therefore difficult and involves making assumptions about the most likely scenario ('principal projection fertility rates'), projected rates that are considered low, and rates that are thought to be high ('low' and 'high' variants), so that the impact of different assumptions of fertility trends on the overall population can be seen.
- The principal, low and high variants are developed by looking at past Jersey trends, as well as information from ONS on past and projected movements in England trends.
- The principal projection is for Jersey's fertility rates to remain fairly constant, as has been seen over the last 40 years.
- The high variant projection is for Jersey's fertility rates to increase by 1% a year each year for 10 years before remaining stable.
- The low variant projection is for Jersey's fertility rates to decrease by 1% a year each year for 10 years before remaining stable.
- The fertility of inward migrants is assumed to take on the characteristics of current Jersey population fertility.

Deaths

- A person in each age group and gender has a particular probability of dying within each year. This is their age-specific mortality rate. The rate is typically low for children and young adults, and increases towards older age.
- Age-specific mortality rates have been improving with improvements in caring for ill or injured people over the last decades.
- The Office for National Statistics in the UK produces projected age-specific mortality rates based on past trends in improvements and expert opinion on their continuation.
- Due to small counts in Jersey, and the overall similarity of death rates to England rates, the ONS projected mortality rates (principal, high and low variants) for England are used for the Jersey population projections, multiplied by a small factor adjustment to account for local differences.
- The mortality adjustment factors for Jersey, determined through comparing the number of observed deaths with those expected under England mortality rates, are as follows:

Males 0 – 59 years	1.00
Males 60+ years	0.95
Females 0 – 15 years	1.00
Females 16 – 74 years	0.90
Females 75+ years	0.95

Migration

- Migration patterns depend on a number of factors, both Jersey-specific and wider, which can be difficult to predict in terms of their timing and impact.
- Patterns of outward migration can be modelled by analyzing the census 2011 data by age, length of residence, type of residential qualifications and employment status.
- From this analysis, a probability of leaving Jersey (outwardly migrating) was identified for type of residential qualification ('a to h or k', 'j' or non-qualified under previous legislation on residential status, which map to the groups 'Entitled', 'Licensed' and 'Registered' under the Control of Housing and Work (Jersey) 2012 law) and length of residency, and separately for children aged 16 years or under.
- Recent trends in outward migration probabilities are assumed to continue forwards into the future at a constant level.
- Inward migration is set at particular levels to produce the different net migration scenarios.
- Inward migrants are distributed by age and gender according to the distribution seen in recent arrivals in census 2011 data.

Residential status definitions (Control of Housing and Work, Jersey, 2012):

Residential status	Definition	Housing	Work
Entitled	Someone who has lived in Jersey for 10 years	Can buy, sell or lease any property	Can work anywhere and doesn't need permission to be employed
Licensed	Someone who is an 'essential employee'	Can buy, sell or lease any property, apart from first time buyer restricted or social rented housing, in their own name if they keep their 'licensed' status	Employer needs permission to employ a 'licensed' person
Entitled to work	Someone who has lived in Jersey for five consecutive years immediately before the date the card is issued, or is married to someone who is 'entitled', 'licensed', or 'entitled to work'	Can buy property jointly with an 'entitled' spouse / civil partner. Can lease 'registered' (previously 'unqualified') property as a main place of residence.	Can work anywhere and doesn't need permission to be employed
Registered	Someone who does not qualify under the other categories	Can lease 'registered' property as a main place of residence	Employer needs permission to employ a 'registered' person

Appendix III – updates since the 2013 release

The 2016 projections begin from the estimated size and structure of the population as at year-end 2015. This was obtained through applying the estimated levels of migration, and known numbers of births, for years 2011 – 2015 inclusive, to the 2013 population projections model.

The 2016 projections incorporate updated age-specific mortality rates. These were obtained by applying a Jersey adjustment factor to the most recent (2014) set of England mortality rates available from the UK Office of National Statistics.

Age-specific fertility rates were adjusted slightly from the 2013 projections, to take into account a recent slight downward trend in fertility rates seen in Jersey. The 'Total Fertility Rate' applied in the 2016 projections is 1.55 (compared to 1.57 in the previous projections). A sensitivity analysis was carried out to explore the impact of the fertility assumptions on the results of the projections (see Appendix I).

A broader range of migration scenarios has been modelled and reported on in the 2016 release. This is to reflect the recent levels of net migration seen (estimated at 700 people per year into the Island in 2013 and 2014, and 1,500 people per year into the Island in 2015).

Finally, two new migration scenarios have been included which, instead of setting a particular migration level, look to model the potential outcome of increasing or decreasing the number of active business permissions in use. This leads to a change in the number of newcomers that can move to Jersey in a year, as well as changing the overall size of the population of 'Registered' individuals, which in turn affects migration in future years. For a more detailed explanation of the migration dynamics and the impact of granting and removing permissions from businesses to employ recent arrivals to the Island, see <https://youtu.be/REwLYj7q8dl>.