



St Helena
Government

St Helena Population Projections

2022 to 2051

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This report, and associated data, are available electronically from www.sainthelena.gov.sh/statistics. For any enquiries, please contact the St Helena Statistics Office: telephone: (+290) 22138, email: statistics@sainthelena.gov.sh, address St Helena Statistics Office, The Post Office, Jamestown, St Helena, South Atlantic Ocean, STHL 1ZZ.

Numbers in tables and charts are sometimes rounded for presentation purposes, and, as a result, they may not always sum to totals.

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Introduction

Population projections are estimates of the size of the population at some point in the future, based on current knowledge about births, deaths and migration patterns. They are useful in a number of contexts: they help people, businesses or policy makers and planners understand population growth trends, so that they can make informed decisions about their lives, about allocating resources, or about defining policies and legislation.

For instance, if there are likely to be more children in the future, policy makers might want to build more schools or train more teachers. If there are likely to be more elderly people, consideration might be given to enhancing the capacity of elderly care services, or to ensuring that pensions can be paid to those that are eligible for them. If there are likely to be less workers and less income-earners, planners may need to consider how government services are organised and funded. If the population is projected to grow, the businesses may make different decisions about their investments compared to projections that forecast a shrinking population.

Methodology

These population projections use a 'cohort-component' method, where births, deaths and migration are applied to each group of a particular age and a particular sex (male or female). The population in a cohort at the end of a year is the population of the cohort one year younger at the end of the previous year, with an adjustment for expected births (for cohort 0), deaths, and migration during the year. For example:

$$\begin{aligned} \text{Population of women aged 35 at end of 2027} &= \text{Population of women aged 34 at end of 2026} \\ &\quad - \text{Deaths of women who would turn 35 in 2027} \\ &\quad + \text{Net immigrants of women who turn 35 in 2027} \end{aligned}$$

This method relies on understanding various demographic characteristics of the St Helena population, including:

- The current size of the population, by single year of age and by sex;
- An estimate of the fertility of women, by age;
- The likelihood of a birth being a girl or a boy;
- An estimate of the number of deaths at each age for males and females;
- An estimate of the number of people coming to live on St Helena, and the number of people leaving to live elsewhere, by age and sex (see section on migration).

Data are available to estimate all of these characteristics, from various sources, but in common with all population projections there are some limitations. In particular, the number of births and deaths on St Helena are relatively small, so observed statistics may not measure the underlying rates accurately. To mitigate this, birth and death rates use observation periods longer than a year, but this also means that there can be a 'lag' in measurement. In some cases, parameters from other countries or regions have been used, such as the sex ratio of births, and the probability of dying at different ages.

Also, parameters will change as social and economic development occurs. It is not possible to predict these future changes accurately, even though they may have a significant impact on the size of the population. For example, fertility rates on St Helena declined quite sharply at the end of the

previous decade, in common with the rest of the world. Life expectancy has increased, as a result of improvements in social conditions and healthcare. And migration patterns have changed, sometimes quite dramatically; for example, after the restoration of British Citizenship in 2002, a relatively large number of younger people left the Island to live and work in the UK.

Data sources and parameter estimates

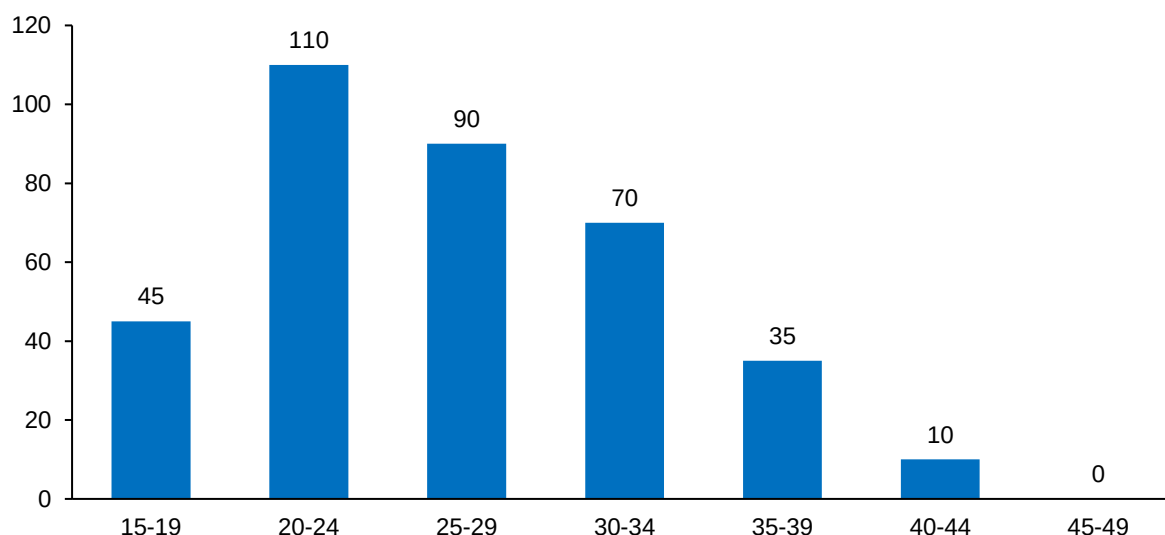
Baseline totals

Baseline totals by age and sex have been taken from the 2021 Population and Housing Census, conducted in February 2021. The total resident population has been used, which includes both St Helenians and non-St Helenians. The non-St Helenian resident population now represents around 7-8% of the total resident population, and this group both pays taxes and utilises public services. It should be noted that this group may have slightly different demographic characteristics: in particular migration patterns are different to the St Helenian population, since many arrive when they are of working age to take up specific technical employment positions, but many also do not stay beyond a few years and are likely to leave before retirement age.

Age-specific fertility rates

Age-specific fertility rates have been calculated using births observed between 2011 and 2020 to women of different ages (see Chart 1), with smoothing applied to ensure that any outliers do not have a significant effect. Using these figures gives a Total Fertility Rate (TFR) of 1.8 – this is the number of children that would be born to each woman if she were to live to 49.

Chart 1. Assumed Age-Specific Fertility Rates (ASFR) by five-year age groups, annual births per 1,000 women in age group



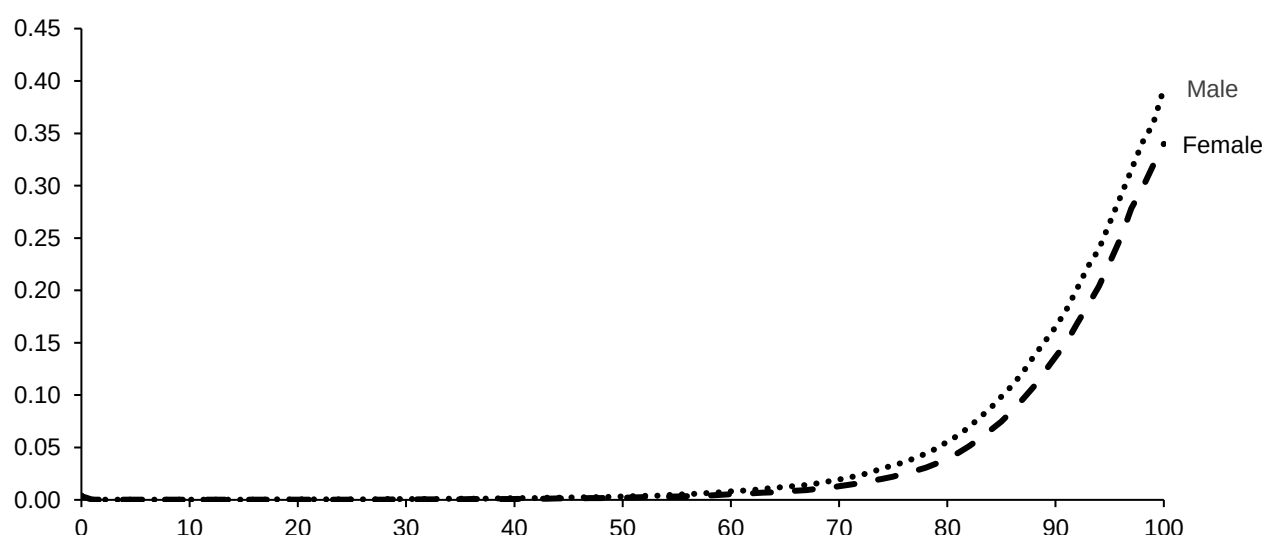
Sex ratio

The sex ratio of boys to girls has been assumed to be 1.05. In other words, for every 100 births of girls it is expected that there will be 105 boys. In fact, births registered on St Helena between 2011 and 2020 show 179 female births and 167 male births, so for every 100 births of girls there were only 93 births of boys. But this is a case where the small numbers involved for St Helena may give a different estimate to the underlying parameter; it is usual to assume that the probability of giving birth to a boy slightly exceeds the probability of giving birth to a girl, based on statistics reported in much larger countries.

Probabilities of dying by age and sex

Probabilities of dying by age and sex have been calculated from UK life tables for 2014-2016. This is considered to be an improvement compared to previous population projections, which used standard so-called 'model' life tables, adjusted using an estimate of St Helena's life expectancy. Inspection of St Helena life expectancies compared with UK rates shows that St Helena estimates have tended to follow UK rates after a few years, and it is judged that the pattern of mortality on St Helena is more similar to UK than to other countries at different stages of human development, even though there are clearly differences in prevalence of some health conditions, and access to health care services on St Helena is affected by its remote location. The decision to use UK rates is also based on some practicality and usability concerns: UK estimates are available for single-year age groups, whereas the small population on St Helena means that it would only be possible to calculate these probabilities for ten-year age groups, which is much less precise and difficult to apply. Furthermore, calculations for St Helena have to use a minimum ten-year period of observations (e.g. 2011-2020), which means that estimates have considerable lag.

Chart 2. Assumed probabilities of dying by age and male/female



Source: UK Office for National Statistics, National Life Tables, United Kingdom, period expectation of life, based on data for the years 2014-2016

Migration scenarios

Migration patterns have been based on typical patterns seen in inward migration and census records during previous periods of both net outward and inward migration. Five different scenarios have been used (Chart 3 and Table 1), because significant changes to St Helena's demographic structure and population size are caused by migration, especially residents leaving the Island to work or live overseas. Two of the scenarios (1, 2) have no net inward or outward migration; one has net outward migration of 20 residents a year (3), and two have net inward migration (4, 5) of 20 and 40 residents respectively. Detailed results using each of the scenarios is given in a separate section in this report.

It is important to understand that the different scenarios illustrate net migration patterns. A figure of five per year in an age group does not mean that there are only five arrivals of residents in that year in that age group, rather it means that the difference between arrivals and departures of residents is

five. So there could be 105 arrivals of residents, but 100 departures, or there may only be 10 arrivals and 5 departures.

- Scenario 1: **No migration** (no net inward or outward migration). This is a baseline scenario, and can mean either no residents leave or arrive, or that anyone that does leave (or arrive) is matched by a resident of the same age and sex arriving (or leaving).
- Scenario 2: **Residents leave but all return** (no net inward or outward migration). In this scenario, the number of residents leaving is exactly matched by the number of arrivals overall, but they are not of the same age: leavers are younger, and those arriving are older. This is relevant on St Helena, where workers sometimes leave for better wages and salaries overseas, but then return after some years abroad.
- Scenario 3: **More residents leave than return** (net outward migration of 20 residents a year). Historically, this represents a typical pattern on St Helena: residents leave to work abroad, in the UK, Ascension, or the Falklands, and many come back when they are older. But some do not come back, choosing to live and settle abroad, typically the UK.
- Scenario 4: **Returning residents** (net inward migration of 20 residents a year). This pattern represents a situation where more residents return to live on St Helena than leave each year, but those residents are older. This pattern might be observed, for example, if younger residents do not leave, and if older residents return. A pattern similar to this was observed among St Helenians when construction of the airport started, because of the availability of good, better paid employment opportunities on St Helena.
- Scenario 5: **Returning residents and new resident arrivals** (net inward migration of 40 residents a year). This pattern represents a situation where more residents return to live on St Helena than leave each year, among both younger and older age groups. This pattern might be observed, for example, if more new residents of working age arrive to live on St Helena, more than those current residents who might leave to take up work opportunities abroad. This pattern was observed when construction of the airport started, when fewer residents left the Island to work overseas, and when workers from abroad arrived to take up employment opportunities, both St Helenians and non-St Helenians.

Chart 3. Migration scenarios used for illustrative population projections, St Helena, 2022 to 2051: net annual arrivals and departures of residents by age

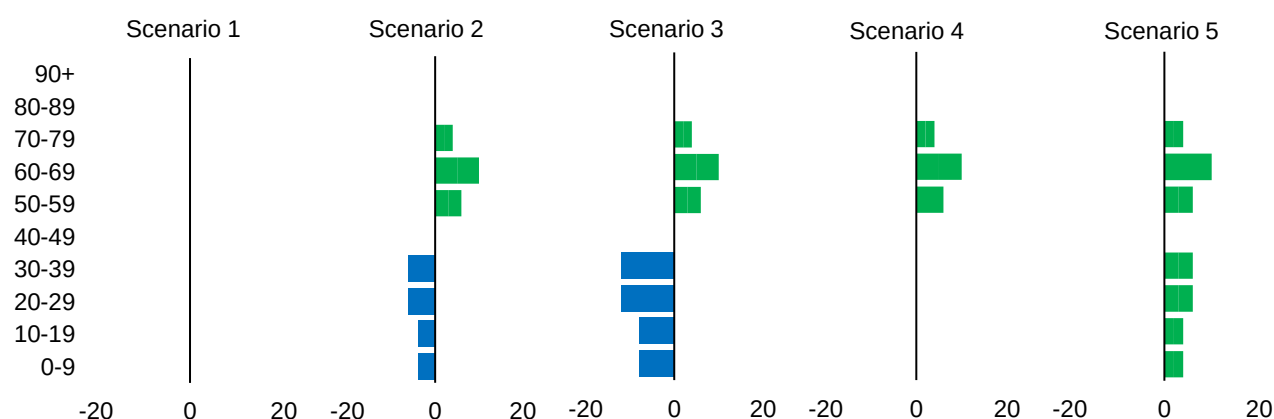


Table 1. Migration scenarios used for illustrative population projections, St Helena, 2022 to 2051

	Scenario 1 No Migration		Scenario 2 Residents leave but all return		Scenario 3 More residents leave than return		Scenario 4 Returning residents		Scenario 5 Returning residents, and new arrivals	
	F	M	F	M	F	M	F	M	F	M
0-9	-	-	-2	-2	-4	-4	-	-	2	2
10-19	-	-	-2	-2	-4	-4	-	-	2	2
20-29	-	-	-3	-3	-6	-6	-	-	3	3
30-39	-	-	-3	-3	-6	-6	-	-	3	3
40-49	-	-	-	-	-	-	-	-	-	-
50-59	-	-	3	3	3	3	3	3	3	3
60-69	-	-	5	5	5	5	5	5	5	5
70-79	-	-	2	2	2	2	2	2	2	2
80-89	-	-	-	-	-	-	-	-	-	-
90+	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-10	-10	10	10	20	20
Annual change in net migration	-	-	-1%	-1%	-2%	-2%	-1%	-1%	-	-

Results

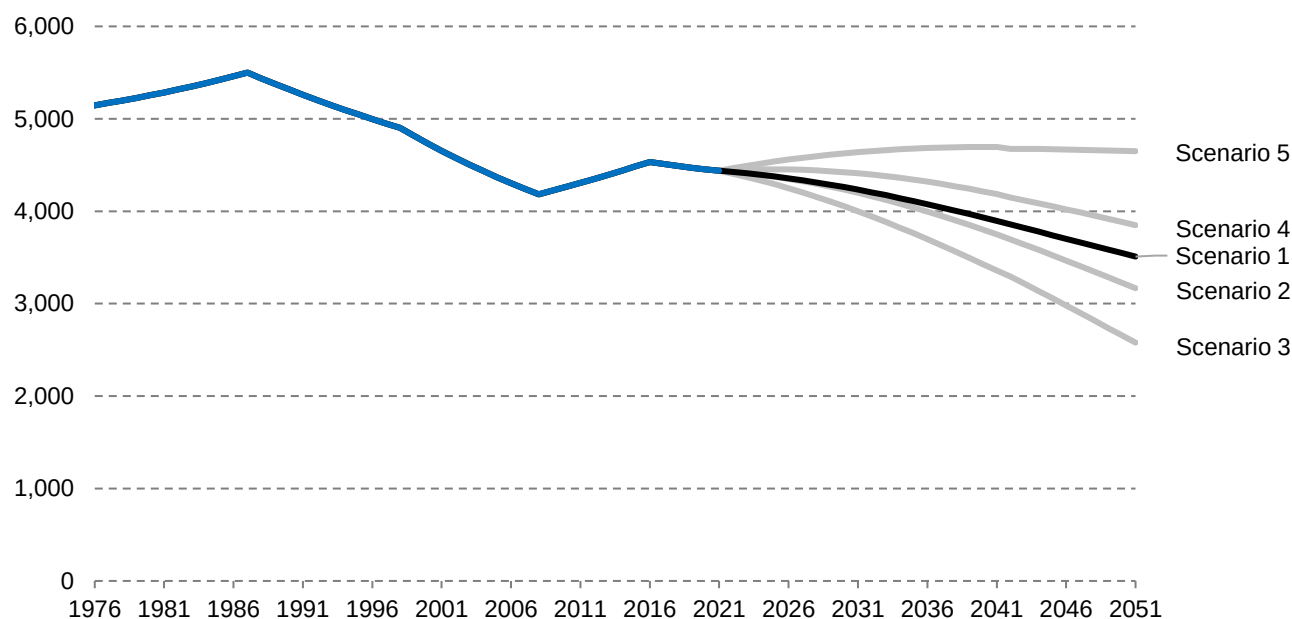
The four charts (Charts 4 to 7) show the impact of the five different migration scenarios side-by-side, together with the historical population trend from 1976 to 2021, using data from the six population censuses during that period: 1976, 1987, 1998, 2008, 2016, and 2021. Please note that lines have been drawn between census points to illustrate the trend between each census, but in practice population totals may have deviated from these lines. The first chart (4) represents the total population, with Chart 5 showing children (age group 0 to 14), Chart 6 showing adults of roughly working age (15-64), and Chart 7 showing older adults aged 65 and over.

Total population

Between 1976 and 1987 the resident population of St Helena increased by around 10% to around 5,500, but then dropped by 1998 falling back to roughly 1976 levels and then fell more sharply by 2008 to just over 4,000 following the restoration of citizenship in 2002. Airport construction, which started around 2012, caused an increase in residents, due to both St Helenians returning to work, and due to the arrival of foreign workers who stayed on St Helena for more than a year. The 2021 Census recorded a slight drop in the resident population, following completion of the airport.

Apart from Scenario 5, all the migration scenarios – including no migration (scenario 1), and balanced migration (scenario 2), result in a drop in the population in 2051. Even Scenario 5, which includes net inward migration of 40 persons a year, only results in a small increase up to around 2041, with a small decrease thereafter. This is mainly because the net inward migration only just offsets the net fall in the population caused by the greater number of deaths each year compared to the births.

Chart 4. Total resident population: 1976-2021, plus projections in each migration scenario 2022 to 2051

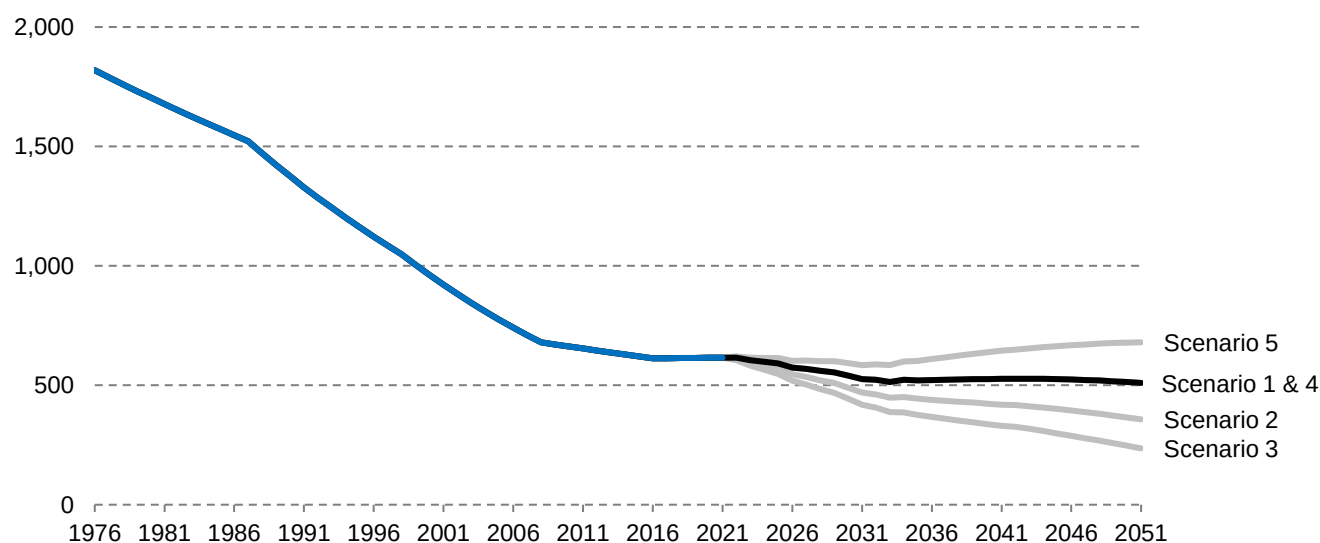


Population aged 0-14

The number of children on St Helena (aged below 15) has fallen dramatically by around two thirds since 1976, from around 1,800 to around 600 in 2021. The fall was steepest in the first thirty years, caused by lower fertility rates and smaller families, combined with a fall in the number of women of child-bearing age due itself to both outward migration and the fall in the fertility rate. In comparison the number of children has been relatively steady in the last 15 years or so, at around 600.

Only migration Scenario 5 leads to an increase in the number of children, and the number of women of child-bearing age increases slightly. Scenarios 2 and 3 lead to significant falls in the number of children, caused by outward migration of women of child-bearing age.

Chart 5. Population aged 0-14 (children): 1976-2021, plus projections in each migration scenario 2022 to 2051

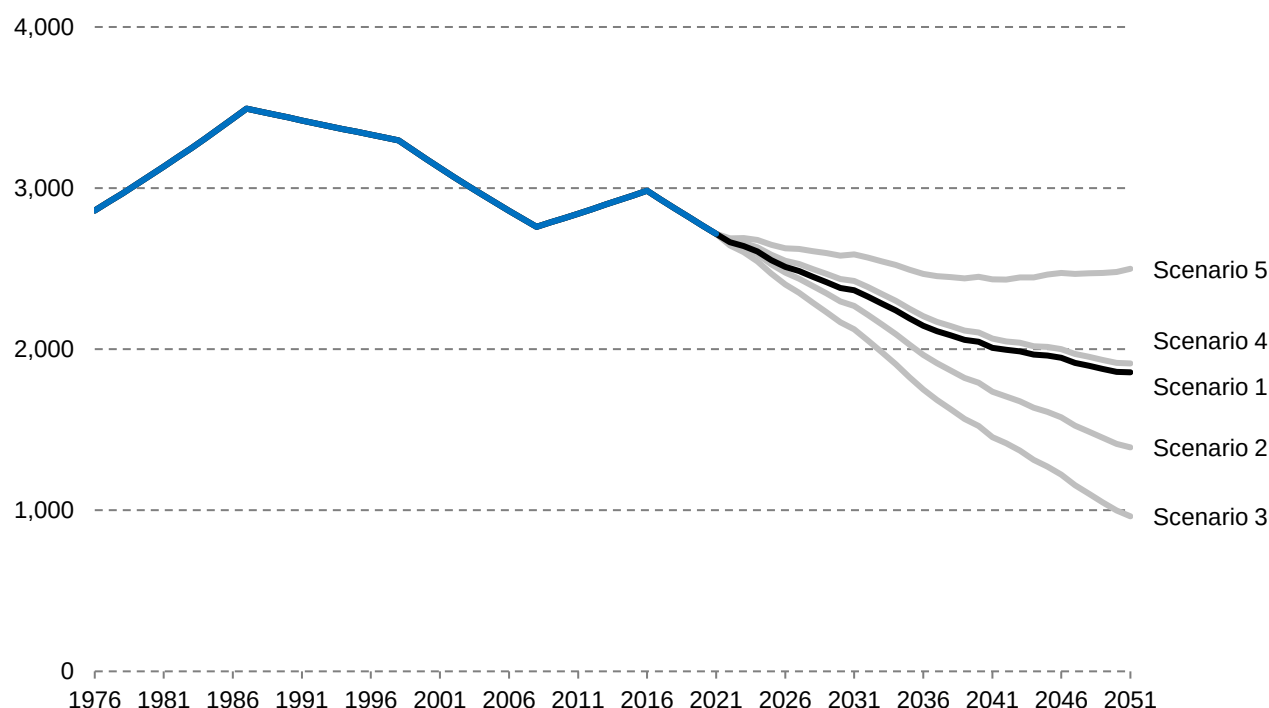


Population aged 15-64

The number of people of working age was above 3,000 during the eighties and nineties, but it fell below 3,000 in the early 2000s as a result of the restoration of full UK citizenship to St Helenians in 2002. There was a temporary increase in the size of the working age population to support airport construction between around 2012 and 2017.

All migration scenarios result in a further fall in the working age population, although the drop is smaller in scenario 5. In scenario 3, it falls to around 2,000 by 2031 and then to below 1,000 by 2051. Scenario 2 also results in a large drop, to just under 1,400 in 2051; even though there is no net migration overall, the net departure of people to work overseas is the main contributor to this trend. The working age population is an important group; employment income is a major part of St Helena's GDP, and a significant part of St Helena's government revenue is derived from income, in the form of taxes. A fall in the working age population compared to the rest of the population would make it harder to sustain levels of public services, for example.

Chart 6. Population aged 15-64 (working-age): 1976-2021, plus projections in each migration scenario 2022 to 2051

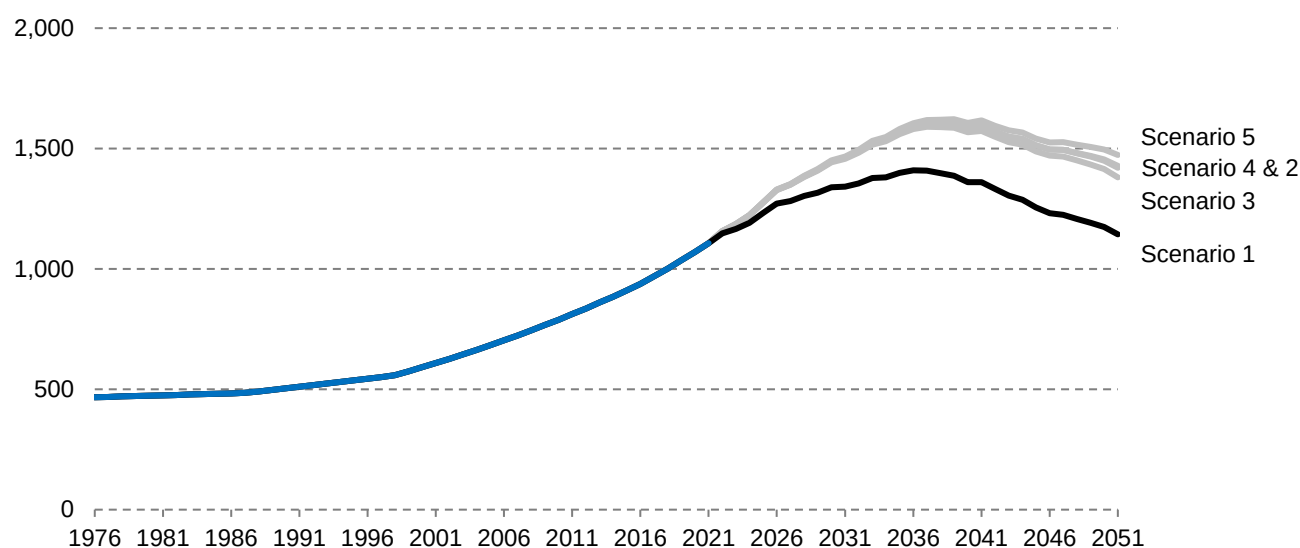


Population aged 65 and older

The fall in the number of children and the increase in the number of persons over 64 are the two most striking changes in St Helena's demographic profile. Between 1976 and 2021 the number of persons over 64 more than doubled, from just under 500, to around 1,100.

Under all five migration scenarios the number of people in this age group is projected to increase, to a peak in around 2036, when it is projected to start to decrease. Under scenario 1 (no migration), the peak is projected to be around 1,400, and under all other scenarios the peak is projected to be around 1,600 people. In all scenarios, the aged dependency ratio is projected to be around 60 or higher by 2031.

Chart 7. Population aged 65+ (older adults): 1976-2021, plus projections in each migration scenario 2022 to 2051

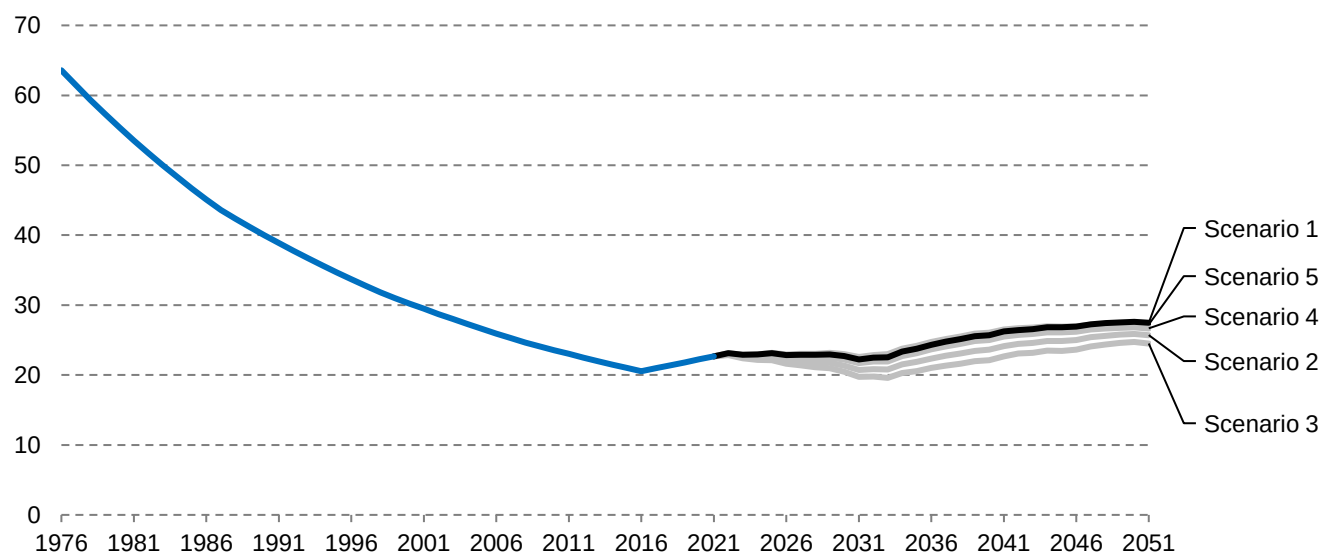


Child dependency ratio

Dependency ratios are useful indicators to show the extent to which residents who are not in the workforce depend on those in the workforce; high ratios show greater dependency than low ratios. Ratios calculated here use the standard calculation: the number in the dependent group (either 0-14, or 65 and older), divided by the number aged 15-64, broadly an estimate of the size of the working population. They are normally multiplied by 100 rather than expressed as a percentage, so a dependency ratio of 100 means that the number in the dependent group is the same as the number in the working population.

In 1976, St Helena had a relatively high child dependency ratio – above 60 – but this fell quite rapidly as a result of a falling fertility rate, and the outward migration of women of child-bearing age (Chart 8). But it has stabilised at around 20-25 since completion of the airport, and it remains relatively steady in all of the migration scenarios at a level between about 20 and 30, roughly similar to many developed countries (the United Kingdom and the United States are both 28).

Chart 8. Child dependency ratio: 1976-2021, plus projections in each migration scenario 2022 to 2051



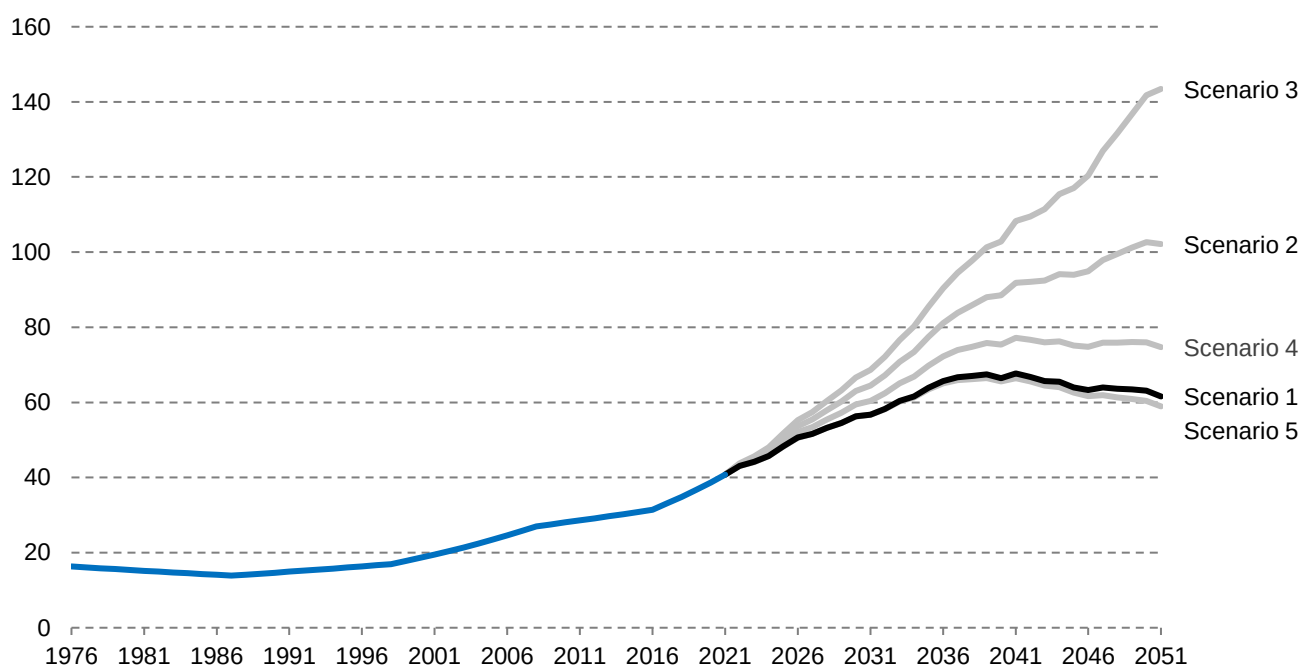
Aged dependency ratio

The aged dependency ratio on St Helena has changed in the opposite way to the child dependency ratio, being as low as 14 in the mid-1980s (roughly the current world average) but increasing to over 40 in 2021. This is higher than almost every country in the world, apart from Japan.

But it should also be noted that some small towns and areas within countries often have similarly high aged dependency ratios. In the UK, for instance, just under one in five of the 395 local authorities with data were reported with an aged dependency ratio higher than 40 by the Office of National Statistics in 2020, with the highest in North Norfolk, with 61.

In all the migration scenarios the aged dependency ratio is projected to rise to more than 60. In two scenarios (1 - no migration, and 5 - returning and arriving residents) the ratio is projected to fall in around 20 years, but it will still remain at around 60 by 2051. In scenarios 2 and 3, which are those closest to currently observed migration patterns, the aged dependency ratio reaches more than 100 in 2051. That is, there will be more people 65 and over than people aged 15 to 64.

Chart 9. Aged dependency ratio: 1976-2021, plus projections in each migration scenario 2022 to 2051



Scenario 1: No migration (no net inward or outward migration)

This can also be thought of as a fully balanced migration pattern, where any outward migration in each age group is matched exactly, in every year, by inward migration in the same age group. Essentially, this projection is based purely on the expected births and deaths in each year, and it provides a useful baseline.

In this scenario, the population declines by around 5% in the first ten years, 8% in the second ten, and 10% in the third decade. The percentage of the population of working age (15-64) compared to the total population falls from over 61% in 2021 to around 56% in 2031, 52% in 2041, and then is more stable at around 53% in 2051. The population 65 and over increases to 1,360 in 2041 before falling back to 1,143 in 2051.

Table S1. Projection of St Helena resident population, migration scenario 1 (no migration), 2031-2051

	2021	2031	2041	2051
0-14	616	526	528	509
15-64	2,716	2,366	2,010	1,855
65+	1,107	1,342	1,360	1,143
Female	2,192	2,110	1,967	1,773
Male	2,247	2,124	1,931	1,734
Total	4,439	4,234	3,898	3,507
% 0-14	13.9	12.4	13.5	14.5
% 15-64	61.2	55.9	51.6	52.9
% 65+	24.9	31.7	34.9	32.6
Aged dependency ratio	40.8	56.7	67.7	61.6

Chart S1a. Projection of St Helena resident population by age group, migration scenario 1 (no migration), 2021 - 2051

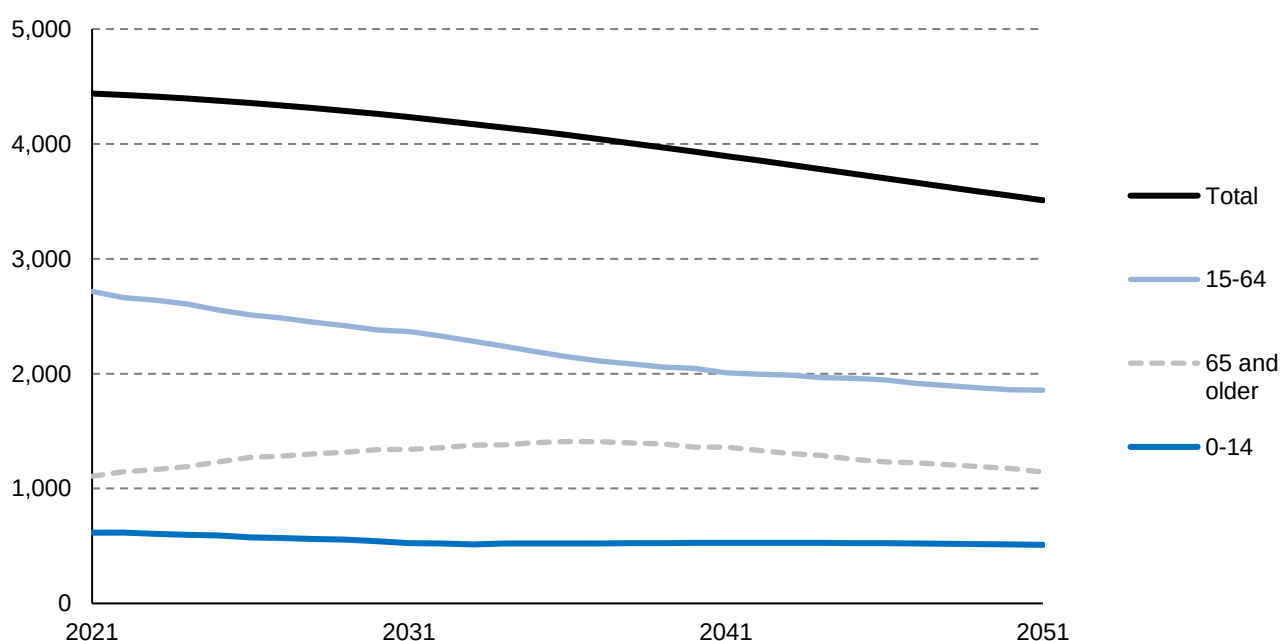


Chart S1b. Projection of St Helena resident population by age group (percentage of total), migration scenario 1 (no migration), 2021-2051

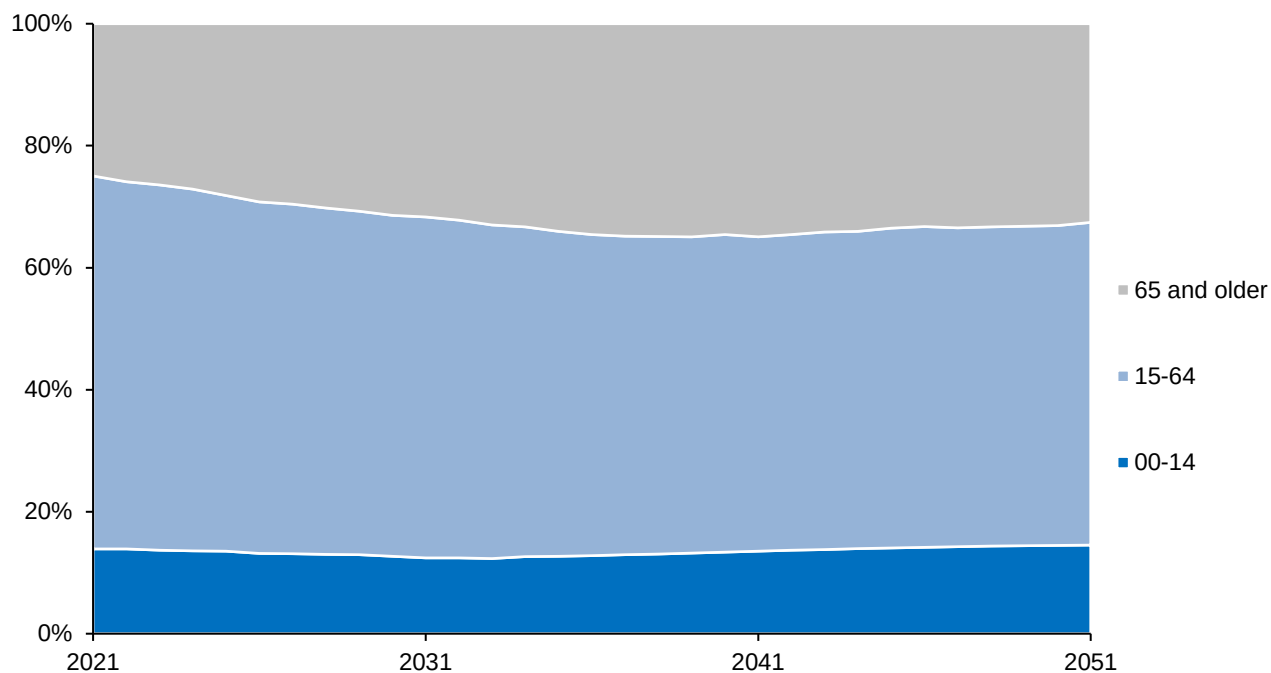
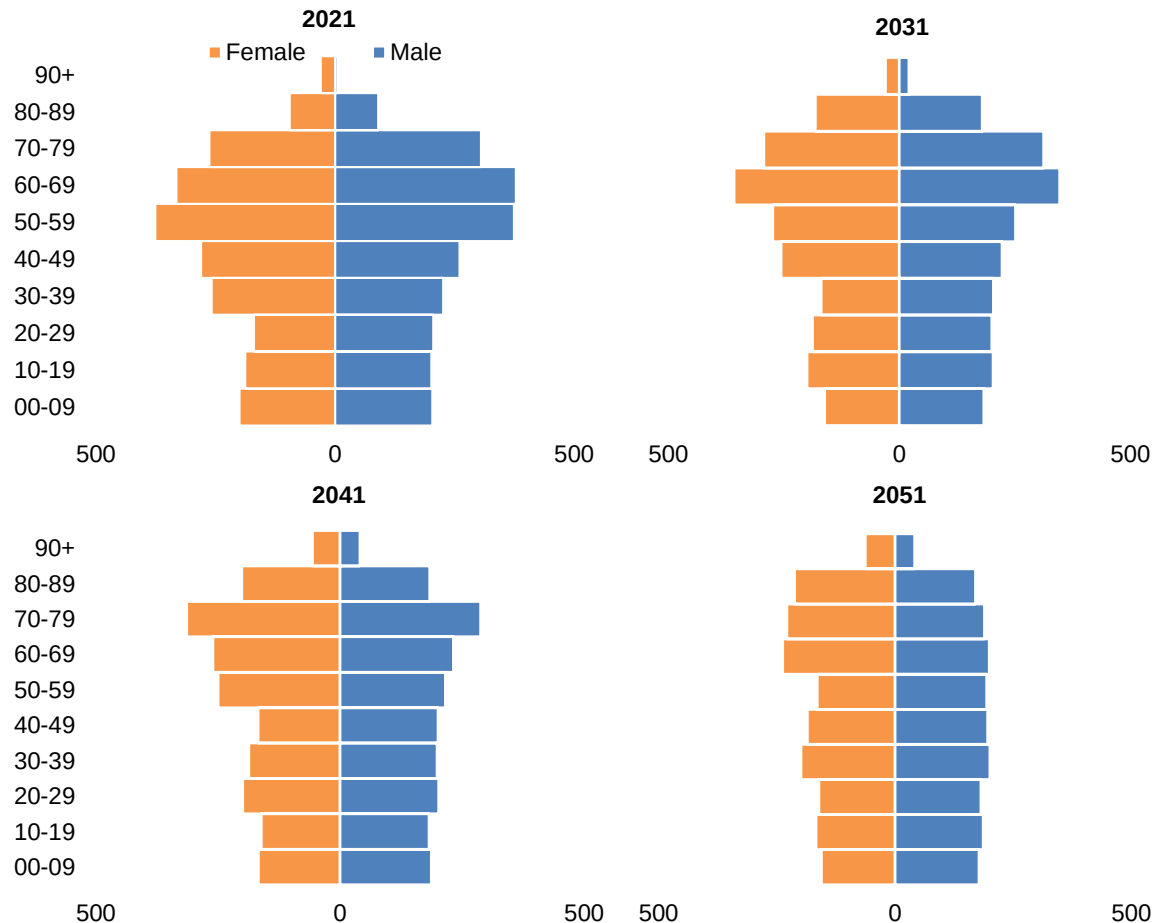


Chart S1c. Projection of St Helena resident population by age group and sex, migration scenario 1 (no migration), 2021-2051



Scenario 2: Residents leave at working age but all return (no net inward or outward migration)

The second scenario uses a 'returning worker' pattern: no net migration each year, but residents leave as young adults and all return as older adults, a pattern that has been observed in the past for some people who leave the Island to work on e.g. Ascension Island or The Falklands.

In this scenario, the population declines by around 6% in the first ten years, 11% in the second ten, and 16% in the third decade – around 30% over the thirty year period. The percentage of the population of working age (15-64) compared to the total population falls from over 61% in 2021 to around 44% by 2051, less than the population 65 and over, which increases to more than 1,400 in 2051. The fall in the total population, and the sharp change in the demographic structure, may be surprising given that there is no net migration. But a crucial factor is the age structure of those leaving and those arriving; because younger people leave, the working-age population falls, and births fall because there are less women of child-bearing age. But deaths increase as the number of people over 65 increases, due to the return of people in older age groups.

Table S2. Projection of St Helena resident population, migration scenario 2 (no net migration – residents leave, but all return), 2031-2051

	2021	2031	2041	2051
0-14	616	471	419	356
15-64	2,716	2,267	1,736	1,391
65+	1,107	1,462	1,593	1,420
Female	2,192	2,094	1,898	1,611
Male	2,247	2,106	1,850	1,556
Total	4,439	4,200	3,748	3,167
% 0-14	13.9	11.2	11.2	11.2
% 15-64	61.2	54.0	46.3	43.9
% 65+	24.9	34.8	42.5	44.8
Aged Dependency ratio	40.8	64.5	91.8	102.1

Chart S2a. Projection of St Helena resident population by age group, migration scenario 2 (no net migration – residents leave, but all return), 2021-2051

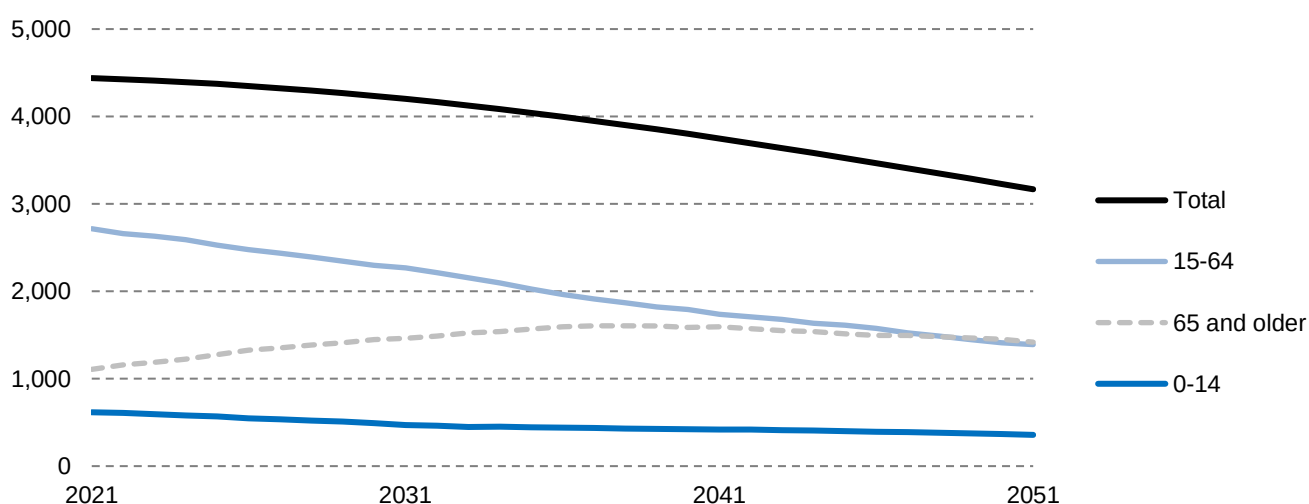


Chart S2b. Projection of St Helena resident population by age group (percentage of total), migration scenario 2 (no net migration – residents leave, but all return), 2021-2051

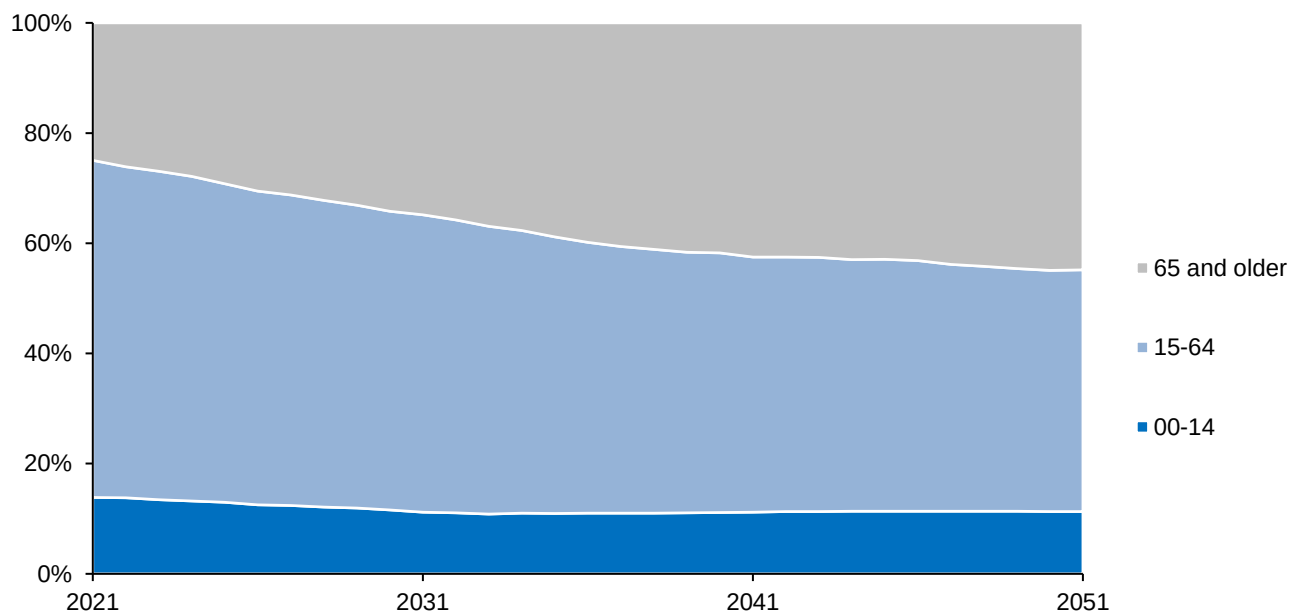
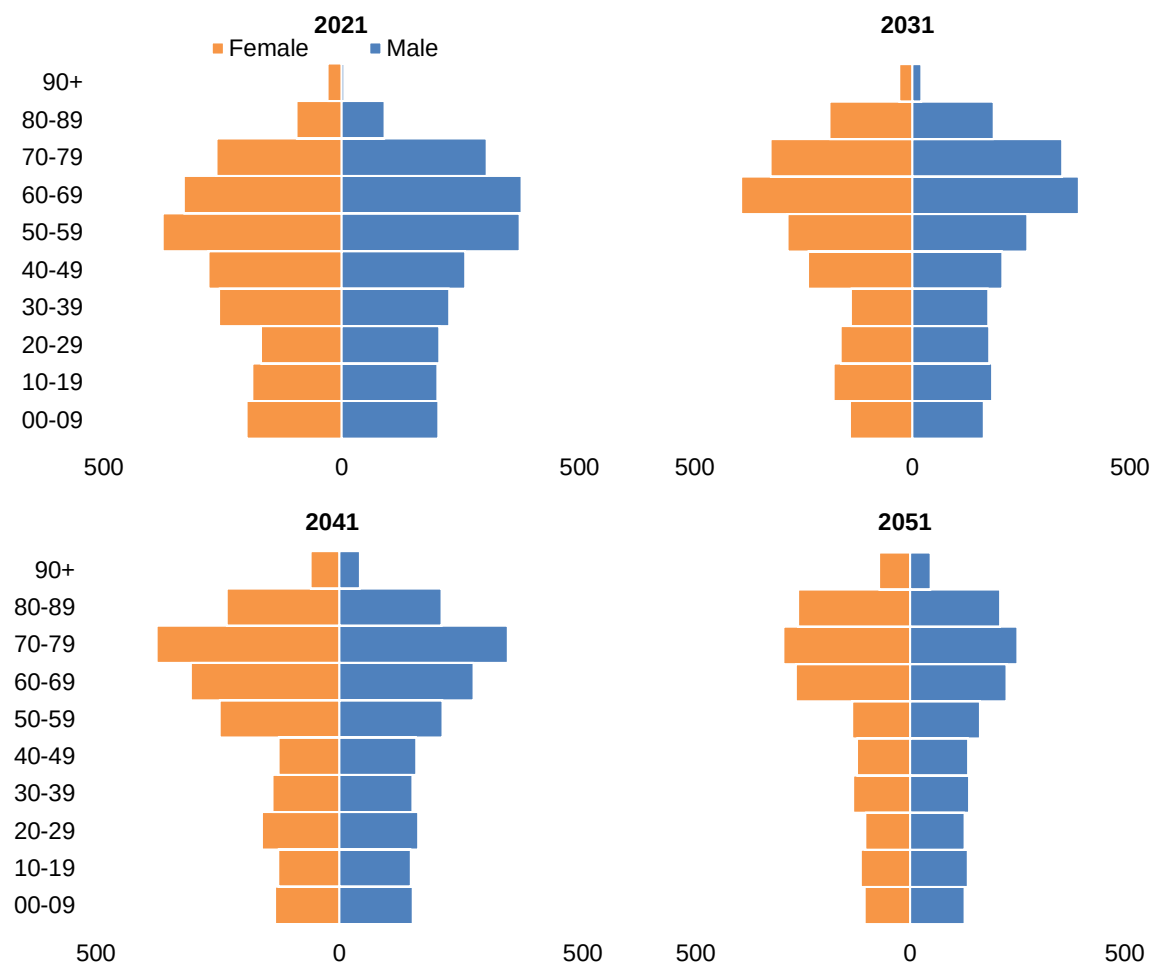


Chart S2c. Projection of St Helena resident population by age group and sex, migration scenario 2 (no net migration – residents leave, but all return), 2021-2051



Scenario 3: More residents leave than return (net outward migration of 20 residents a year)

Scenario 3 can be thought of as a ‘non-returning’ worker pattern: residents leave as young adults and return as older adults, but more residents leave than arrive each year, so not all those leaving the Island to live or work abroad eventually return. Net migration (both outward migration and inward migration or return of St Helenians) is assumed to fall 2% each year over the 30 year projection period.

Like Scenario 2, this results in a falling population, but it is much more dramatic – by 2051, the population is only 2,578, with only 962 people of working age (15-64), and only 236 children aged 0-14. In contrast, there would be almost 1,400 people aged 65 and over, or 54% of the population. This sharp change occurs with a net outward migration of only 20 people a year at the start of the projection. This is in the range of the current difference between births and deaths, and it is much smaller than the net outward migration of residents observed recently on St Helena. As with Scenario 2, the crucial factor is the age structure of those leaving and those arriving: younger people leave, and older people arrive.

Table S3. Projection of St Helena resident population, migration scenario 3 (net outward migration – workers leave, but not all return), 2021-2051

	2021	2031	2041	2051
0-14	616	420	330	236
15-64	2,716	2,123	1,453	962
65+	1,107	1,458	1,574	1,380
Female	2,192	1,995	1,701	1,303
Male	2,247	2,006	1,656	1,275
Total	4,439	4,001	3,357	2,578
% 0-14	13.9	10.5	9.8	9.2
% 15-64	61.2	53.1	43.3	37.3
% 65+	24.9	36.4	46.9	53.5
Aged Dependency ratio	40.8	68.7	108.3	143.5

Chart S3a. Projection of St Helena resident population by age group, migration scenario 3 (net outward migration – workers leave, but not all return), 2021-2051

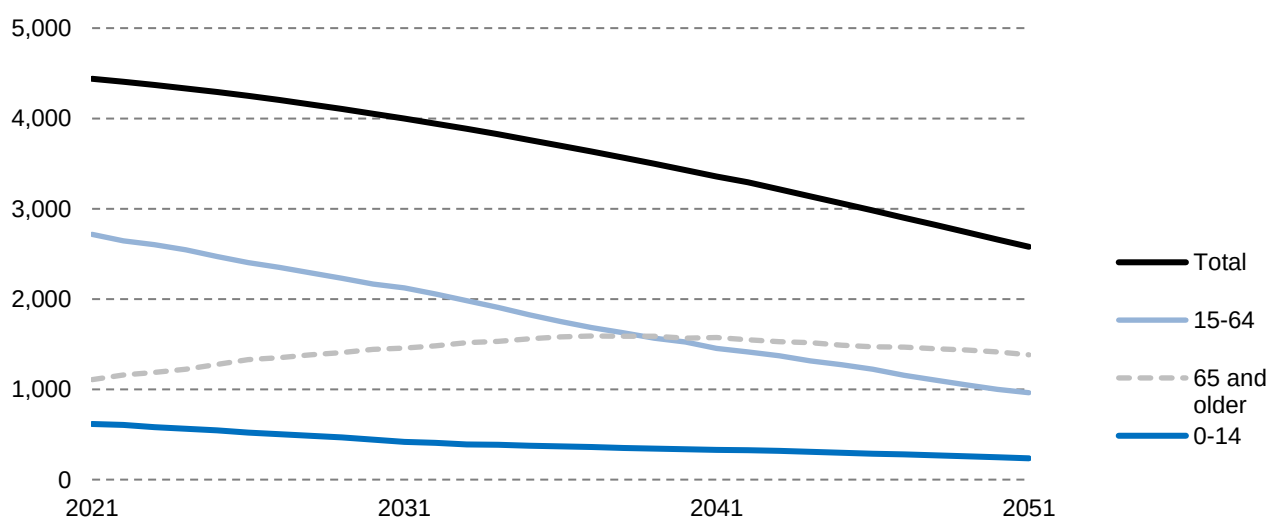


Chart S3b. Projection of St Helena resident population by age group (percentage of total), migration scenario 3 (net outward migration – workers leave, but not all return), 2021-2051

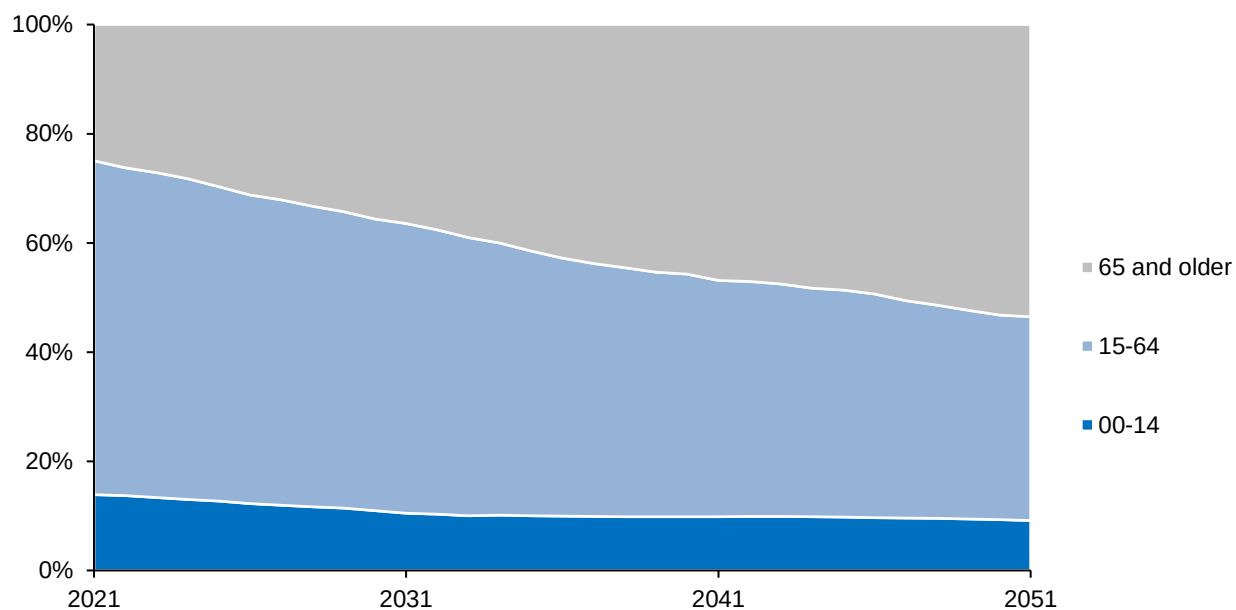
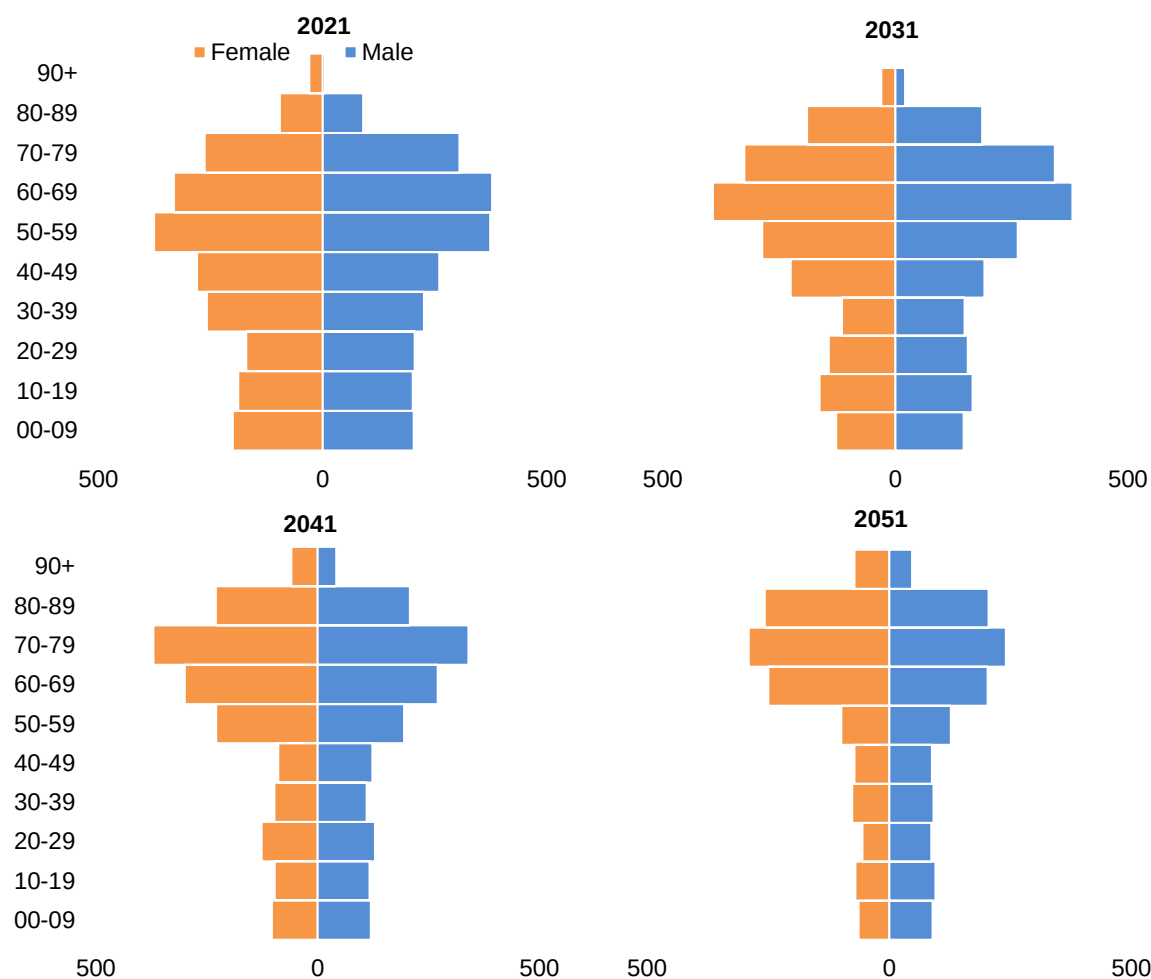


Chart S3c. Projection of St Helena resident population by age group and sex, migration scenario 3 (net outward migration – people leave, but not all return), 2021-2051



Scenario 4: Returning residents (net inward migration of 20 residents a year)

In this scenario, more residents arrive on St Helena than leave in older age groups. Total net inward migration each year is 20 people. Arriving residents would typically be St Helenians living and working abroad who come back to St Helena in their older years. The number of arrivals decreases by 1% each year, since in this scenario the population size falls.

Initially the population increases slightly, but then falls; the working age population falls slightly but then stabilises, the number of children is also steady, and the number of persons aged 65 and over increases before falling slightly. Even in this scenario, with net inward migration of 20 persons of working age each year, the aged dependency ratio increases to 60 by 2031 and 75 by 2051, and in 2031 the proportion of working age persons is almost 55% and falls to less than 50% by 2051.

Table S4. Projection of St Helena resident population, migration scenario 4 (net inward migration – workers return when older), 2021-2051

	2021	2031	2041	2051
0-14	616	526	528	509
15-64	2,716	2,424	2,065	1,910
65+	1,107	1,462	1,593	1,428
Female	2,192	2,200	2,116	1,955
Male	2,247	2,212	2,070	1,892
Total	4,439	4,412	4,186	3,847
% 0-14	13.9	11.9	12.6	13.2
% 15-64	61.2	54.9	49.3	49.6
% 65+	24.9	33.1	38.1	37.1
Aged Dependency ratio	40.8	60.3	77.1	74.8

Chart S4a. Projection of St Helena resident population by age group, migration scenario 4 (net inward migration – workers return when older), 2021-2051

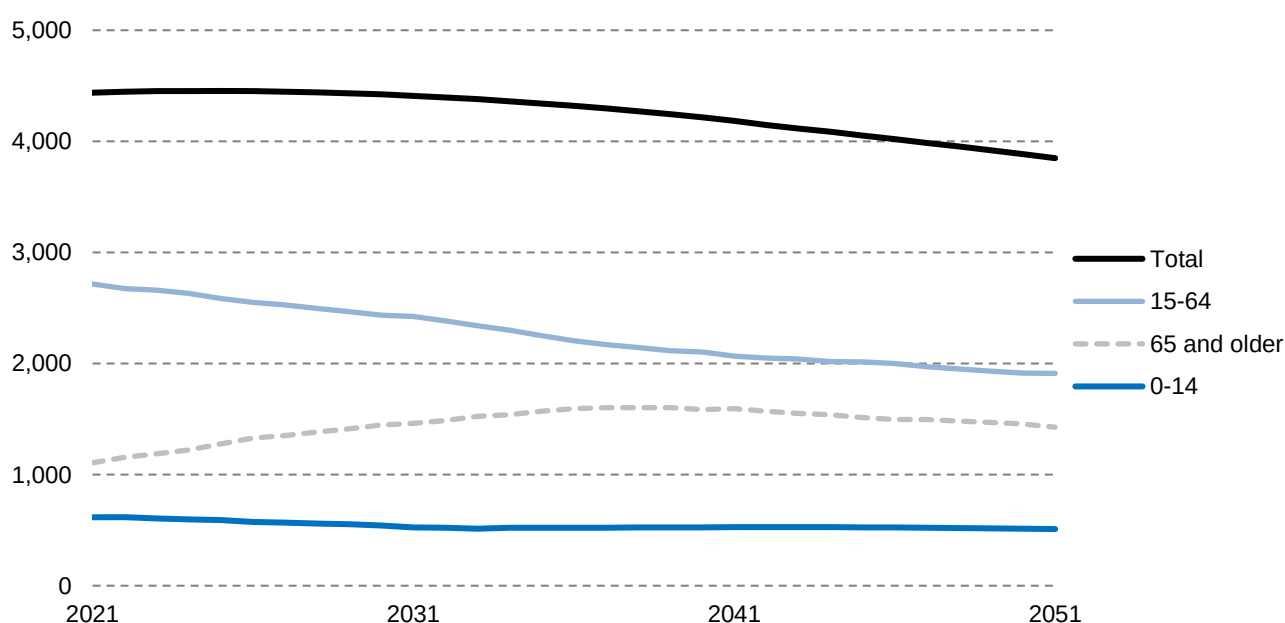


Chart S4b. Projection of St Helena resident population by age group (percentage of total population), migration scenario 4 (net inward migration – workers return when older), 2021-2051

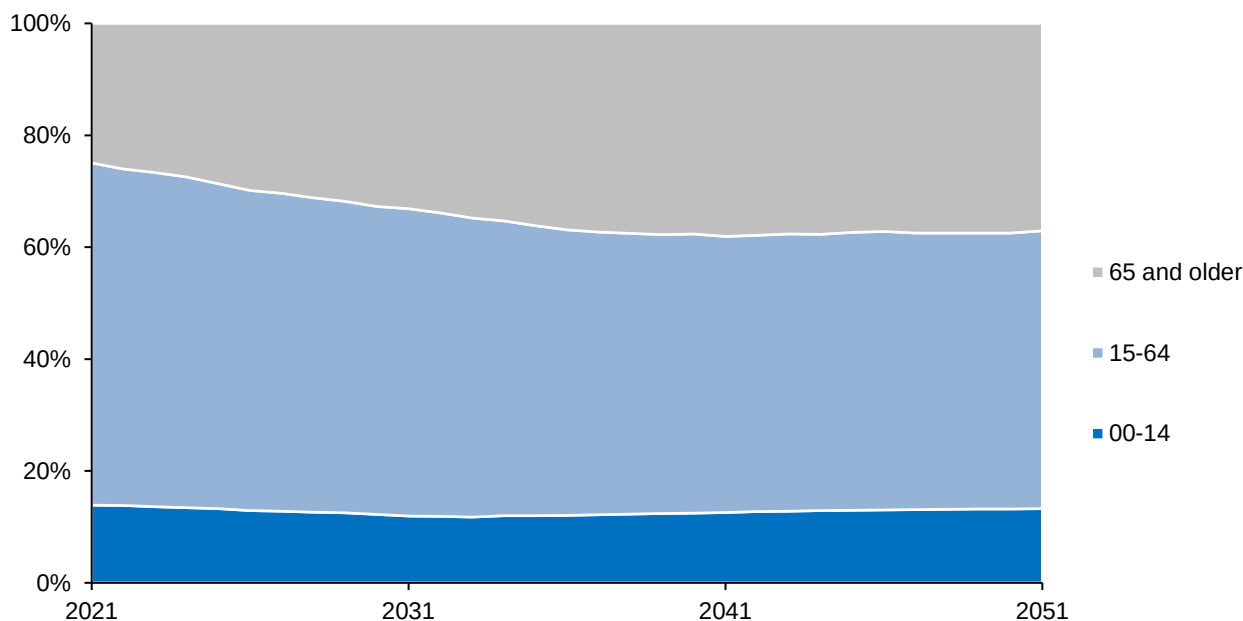
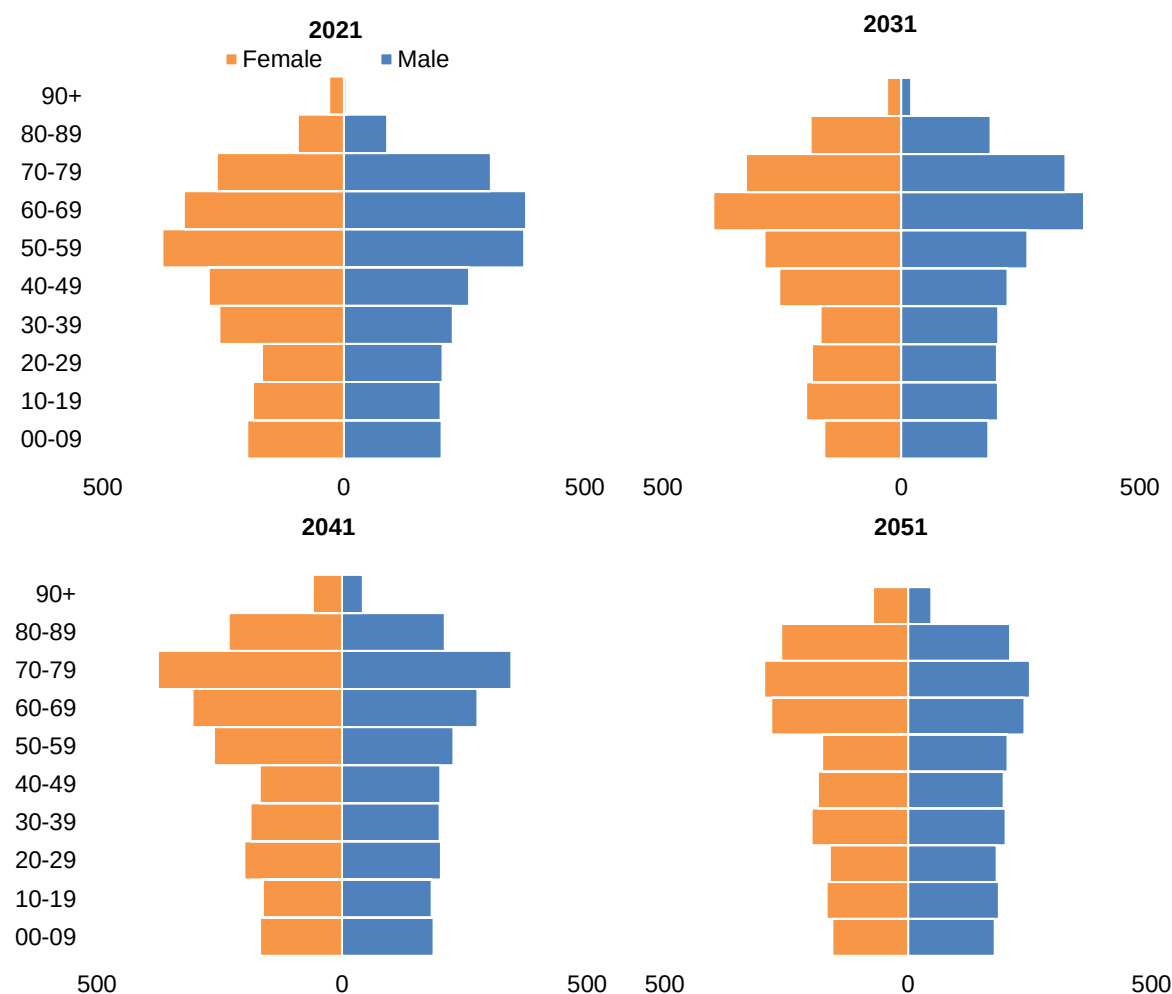


Chart S4c. Projection of St Helena resident population by age group and sex, migration scenario 4 (net inward migration – workers return when older), 2021-2051



Scenario 5: Returning residents and new resident arrivals (net inward migration of 40 residents a year)

In this scenario, more residents arrive on St Helena than leave in all age groups. Total net inward migration each year is 40 people. Arriving residents would be St Helenians living and working abroad who come back to St Helena in their older years, and new residents arriving in all age groups. The number of net arrivals stays the same each year, since the population size is stable.

Initially the population increases, but then stabilises and then falls slightly; the working age population falls slightly and then stabilises, the number of children falls but then increases, and the number of persons aged 65 and over increases before falling. In this scenario, with net inward migration of 40 persons of working age each year, the aged dependency ratio increases to 57 by 2031 and to 59 by 2051, and in 2051 the proportion of working age persons is around 54%.

Table S5. Projection of St Helena resident population, migration scenario 5 (net inward migration – arriving and returning workers), 2021-2051

	2021	2031	2041	2051
0-14	616	584	644	680
15-64	2,716	2,588	2,434	2,499
65+	1,107	1,466	1,618	1,473
Female	2,192	2,314	2,371	2,340
Male	2,247	2,324	2,325	2,312
Total	4,439	4,638	4,696	4,652
% 0-14	13.9	12.6	13.7	14.6
% 15-64	61.2	55.8	51.8	53.7
% 65+	24.9	31.6	34.5	31.7
Aged Dependency ratio	40.8	56.6	66.5	58.9

Chart S5a. Projection of St Helena resident population by age group, migration scenario 5 (net inward migration – arriving and returning workers), 2021-2051

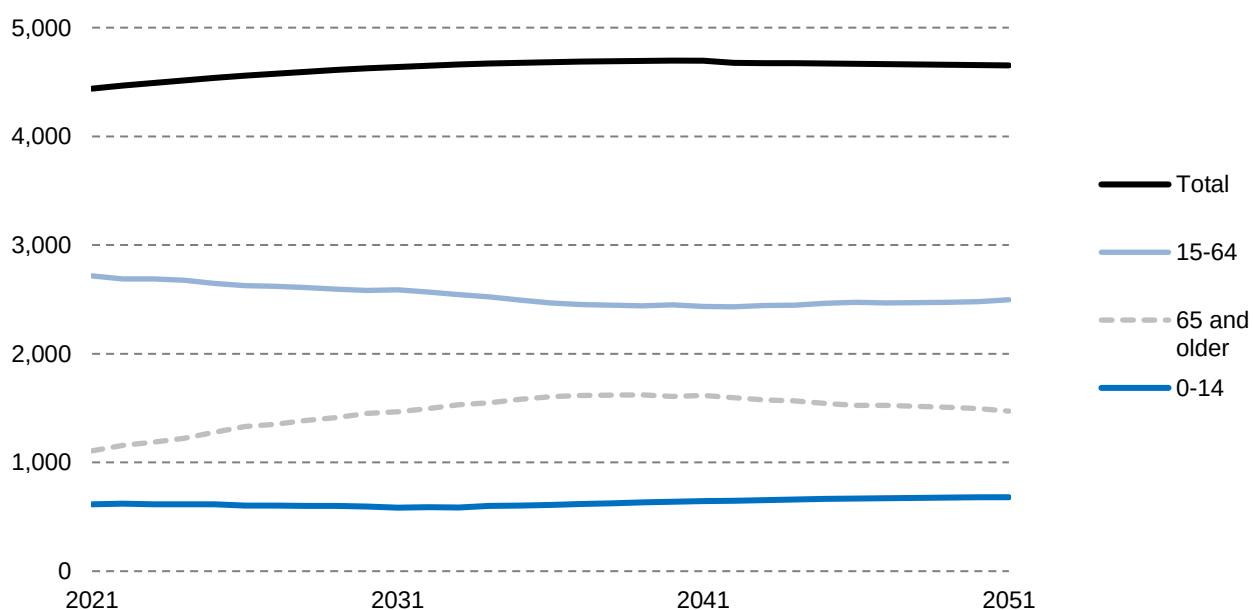


Chart S5b. Projection of St Helena resident population by age group (percentage of total population), migration scenario 5 (net inward migration – arriving and returning workers), 2021-2051

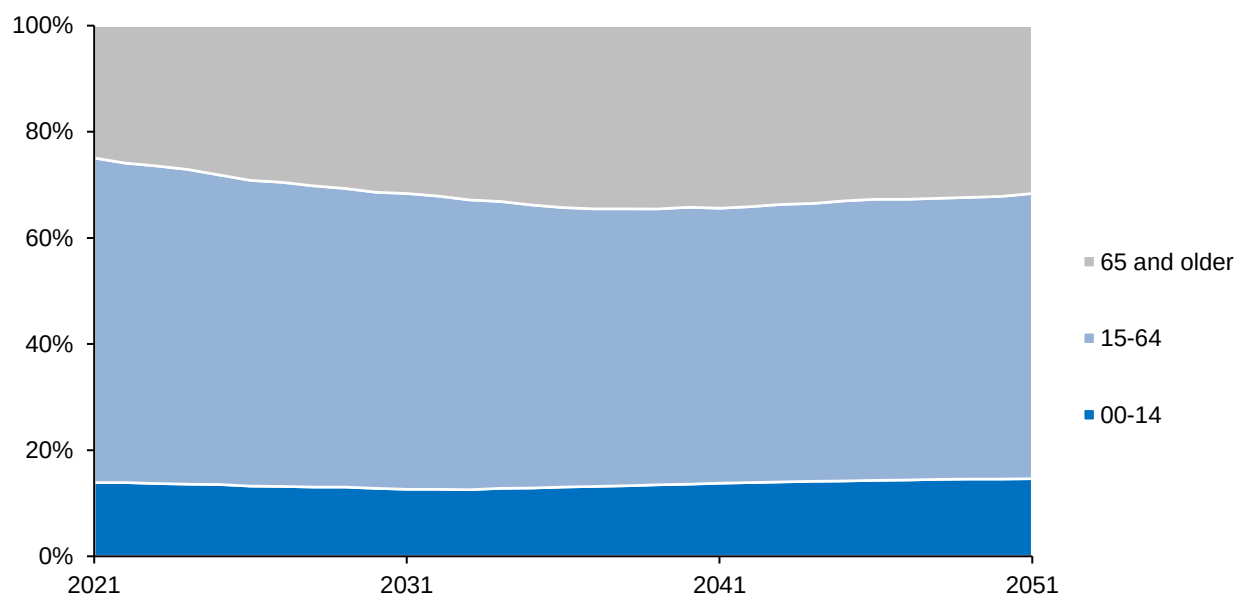
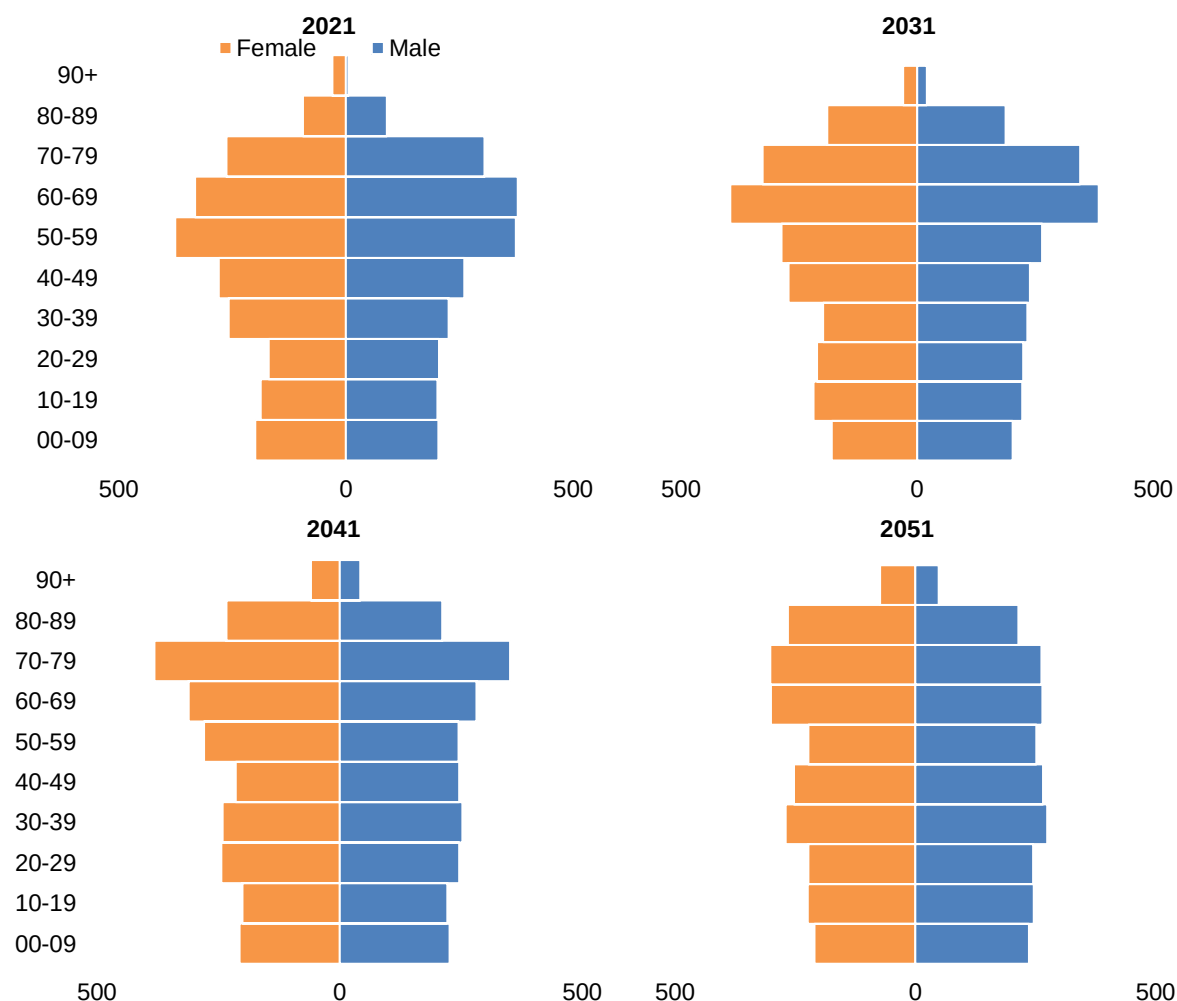


Chart S5c. Projection of St Helena resident population by age group and sex, migration scenario 5 (net inward migration – workers arrive and return), 2021-2051



Annex A. Detailed data tables of different projections

Scenario 1

	2021			2026			2031			2036			2041			2046			2051		
	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T
0	14	21	35	16	18	34	16	19	35	17	19	36	16	19	35	16	18	34	15	17	32
1-4	74	73	147	65	73	138	64	73	137	67	75	142	67	75	142	64	73	137	61	70	131
5-9	112	109	221	88	94	182	81	91	172	81	92	173	84	94	178	84	93	177	80	90	170
10-14	96	117	213	112	109	221	88	94	182	81	90	171	81	92	173	84	94	178	83	93	176
15-19	92	84	176	96	117	213	112	109	221	88	94	182	81	90	171	81	92	173	84	93	177
20-24	82	92	174	92	84	176	96	117	213	112	109	221	88	94	182	81	90	171	81	92	173
25-29	88	113	201	82	92	174	92	84	176	96	116	212	112	108	220	88	93	181	80	90	170
30-34	107	107	214	88	113	201	82	91	173	92	83	175	96	116	212	111	108	219	87	93	180
35-39	151	119	270	107	106	213	88	112	200	82	91	173	91	83	174	95	115	210	111	107	218
40-44	130	102	232	150	118	268	106	106	212	87	111	198	81	90	171	91	82	173	95	115	210
45-49	150	158	308	129	101	230	149	117	266	106	105	211	87	110	197	81	89	170	90	81	171
50-54	196	204	400	149	156	305	128	99	227	148	115	263	105	103	208	86	108	194	80	88	168
55-59	180	170	350	193	199	392	146	152	298	126	97	223	145	113	258	103	101	204	84	106	190
60-64	186	205	391	176	164	340	188	192	380	143	147	290	123	94	217	142	109	251	101	97	198
65-69	146	173	319	179	194	373	169	155	324	182	181	363	137	138	275	118	88	206	137	102	239
70-74	157	167	324	138	158	296	169	177	346	159	142	301	171	166	337	129	126	255	112	81	193
75-79	106	138	244	142	144	286	124	136	260	153	152	305	143	122	265	155	142	297	117	108	225
80-84	64	60	124	89	107	196	119	111	230	104	105	209	128	118	246	119	95	214	129	110	239
85-89	31	30	61	45	38	83	63	68	131	84	70	154	74	66	140	91	74	165	84	60	144
90-94	21	5	26	16	14	30	24	17	41	34	31	65	45	31	76	39	29	68	48	33	81
95+	9	0	9	7	1	8	6	4	10	8	5	13	12	9	21	16	9	25	14	8	22
Total	2192	2247	4439	2159	2200	4359	2110	2124	4234	2050	2030	4080	1967	1931	3898	1874	1828	3702	1773	1734	3507
0-14	296	320	616	281	294	575	249	277	526	246	276	522	248	280	528	248	278	526	239	270	509
15-64	1362	1354	2716	1262	1250	2512	1187	1179	2366	1080	1068	2148	1009	1001	2010	959	987	1946	893	962	1855
65+	534	573	1107	616	656	1272	674	668	1342	724	686	1410	710	650	1360	667	563	1230	641	502	1143

Scenario 2

	2021			2026			2031			2036			2041			2046			2051		
	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T
0	14	21	35	15	17	32	15	17	32	14	16	30	13	15	28	12	14	26	10	12	22
1-4	74	73	147	61	69	130	57	66	123	56	63	119	53	60	113	48	55	103	41	50	91
5-9	112	109	221	83	89	172	72	82	154	67	78	145	66	75	141	62	71	133	54	65	119
10-14	96	117	213	107	104	211	78	84	162	67	77	144	63	74	137	62	71	133	57	67	124
15-19	92	84	176	91	112	203	102	99	201	74	80	154	63	73	136	59	70	129	57	67	124
20-24	82	92	174	86	78	164	85	106	191	97	94	191	69	75	144	58	68	126	53	65	118
25-29	88	113	201	75	84	159	79	71	150	79	99	178	90	87	177	63	68	131	51	62	113
30-34	107	107	214	80	105	185	67	77	144	72	64	136	72	93	165	84	81	165	56	62	118
35-39	151	119	270	99	99	198	73	98	171	61	70	131	66	57	123	66	86	152	77	75	152
40-44	130	102	232	146	114	260	95	94	189	69	93	162	57	66	123	62	53	115	62	82	144
45-49	150	158	308	129	101	230	145	113	258	94	93	187	69	92	161	56	65	121	62	53	115
50-54	196	204	400	151	158	309	131	102	233	146	113	259	96	94	190	71	93	164	58	66	124
55-59	180	170	350	200	207	407	156	162	318	135	106	241	150	117	267	100	98	198	77	97	174
60-64	186	205	391	185	173	358	204	208	412	161	164	325	140	110	250	154	120	274	107	102	209
65-69	146	173	319	191	206	397	189	175	364	208	207	415	165	165	330	145	114	259	160	123	283
70-74	157	167	324	147	167	314	189	196	385	187	168	355	204	197	401	162	158	320	145	111	256
75-79	106	138	244	147	148	295	137	148	285	175	173	348	172	149	321	188	173	361	151	139	290
80-84	64	60	124	91	110	201	125	117	242	117	116	233	148	136	284	145	117	262	159	135	294
85-89	31	30	61	45	38	83	65	70	135	89	74	163	83	73	156	106	86	192	102	75	177
90-94	21	5	26	16	14	30	24	17	41	35	32	67	47	33	80	44	33	77	56	39	95
95+	9	0	9	7	1	8	6	4	10	8	5	13	12	9	21	17	9	26	16	9	25
Total	2192	2247	4439	2152	2194	4346	2094	2106	4200	2011	1985	3996	1898	1850	3748	1764	1703	3467	1611	1556	3167
0-14	296	320	616	266	279	545	222	249	471	204	234	438	195	224	419	184	211	395	162	194	356
15-64	1362	1354	2716	1242	1231	2473	1137	1130	2267	988	976	1964	872	864	1736	773	802	1575	660	731	1391
65+	534	573	1107	644	684	1328	735	727	1462	819	775	1594	831	762	1593	807	690	1497	789	631	1420

Scenario 3

	2021			2026			2031			2036			2041			2046			2051		
	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T
0	14	21	35	14	16	30	13	15	28	12	14	26	10	12	22	8	10	18	6	9	15
1-4	74	73	147	58	66	124	50	59	109	46	54	100	42	48	90	34	42	76	24	35	59
5-9	112	109	221	78	84	162	64	73	137	55	66	121	51	60	111	44	54	98	33	46	79
10-14	96	117	213	102	99	201	70	76	146	56	66	122	48	59	107	44	54	98	35	48	83
15-19	92	84	176	86	107	193	94	91	185	62	68	130	49	58	107	40	52	92	35	48	83
20-24	82	92	174	80	72	152	76	97	173	84	81	165	53	59	112	39	51	90	30	45	75
25-29	88	113	201	67	77	144	67	59	126	64	85	149	73	70	143	41	49	90	26	42	68
30-34	107	107	214	73	98	171	54	64	118	55	47	102	53	74	127	62	60	122	28	40	68
35-39	151	119	270	92	92	184	60	85	145	42	53	95	45	36	81	41	64	105	48	51	99
40-44	130	102	232	142	109	251	84	84	168	53	77	130	36	47	83	39	30	69	33	58	91
45-49	150	158	308	129	101	230	141	108	249	83	83	166	52	76	128	36	47	83	38	30	68
50-54	196	204	400	151	158	309	130	102	232	142	109	251	85	84	169	55	77	132	38	48	86
55-59	180	170	350	200	207	407	155	161	316	134	105	239	145	112	257	89	86	175	61	79	140
60-64	186	205	391	185	173	358	204	207	411	159	163	322	138	108	246	149	114	263	95	89	184
65-69	146	173	319	191	205	396	188	174	362	206	205	411	162	162	324	142	110	252	154	114	268
70-74	157	167	324	147	167	314	188	196	384	185	166	351	200	194	394	159	154	313	142	106	248
75-79	106	138	244	146	148	294	137	147	284	174	172	346	170	147	317	185	169	354	148	135	283
80-84	64	60	124	91	110	201	125	117	242	116	116	232	147	135	282	143	115	258	156	132	288
85-89	31	30	61	45	38	83	65	70	135	89	74	163	83	73	156	105	85	190	101	73	174
90-94	21	5	26	16	14	30	24	17	41	35	32	67	47	33	80	44	33	77	56	38	94
95+	9	0	9	7	1	8	6	4	10	8	5	13	12	9	21	17	9	26	16	9	25
Total	2192	2247	4439	2100	2142	4242	1995	2006	4001	1860	1841	3701	1701	1656	3357	1516	1465	2981	1303	1275	2578
0-14	296	320	616	252	265	517	197	223	420	169	200	369	151	179	330	130	160	290	98	138	236
15-64	1362	1354	2716	1205	1194	2399	1065	1058	2123	878	871	1749	729	724	1453	591	630	1221	432	530	962
65+	534	573	1107	643	683	1326	733	725	1458	813	770	1583	821	753	1574	795	675	1470	773	607	1380

Scenario 4

	2021			2026			2031			2036			2041			2046			2051		
	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T
0	14	21	35	16	18	34	16	19	35	17	19	36	16	19	35	16	18	34	15	17	32
1-4	74	73	147	65	73	138	64	73	137	67	75	142	67	75	142	64	73	137	61	70	131
5-9	112	109	221	88	94	182	81	91	172	81	92	173	84	94	178	84	93	177	80	90	170
10-14	96	117	213	112	109	221	88	94	182	81	90	171	81	92	173	84	94	178	83	93	176
15-19	92	84	176	96	117	213	112	109	221	88	94	182	81	90	171	81	92	173	84	93	177
20-24	82	92	174	92	84	176	96	117	213	112	109	221	88	94	182	81	90	171	81	92	173
25-29	88	113	201	82	92	174	92	84	176	96	116	212	112	108	220	88	93	181	80	90	170
30-34	107	107	214	88	113	201	82	91	173	92	83	175	96	116	212	111	108	219	87	93	180
35-39	151	119	270	107	106	213	88	112	200	82	91	173	91	83	174	95	115	210	111	107	218
40-44	130	102	232	150	118	268	106	106	212	87	111	198	81	90	171	91	82	173	95	115	210
45-49	150	158	308	129	101	230	149	117	266	106	105	211	87	110	197	81	89	170	90	81	171
50-54	196	204	400	151	158	309	131	102	233	150	118	268	107	106	213	89	111	200	83	90	173
55-59	180	170	350	200	207	407	156	162	318	135	106	241	154	121	275	111	109	220	94	114	208
60-64	186	205	391	185	173	358	204	208	412	161	164	325	140	110	250	158	124	282	118	112	230
65-69	146	173	319	191	206	397	189	175	364	208	207	415	165	165	330	145	114	259	164	127	291
70-74	157	167	324	147	167	314	189	196	385	187	168	355	204	197	401	162	158	320	145	111	256
75-79	106	138	244	147	148	295	137	148	285	175	173	348	172	149	321	188	173	361	151	139	290
80-84	64	60	124	91	110	201	125	117	242	117	116	233	148	136	284	145	117	262	159	135	294
85-89	31	30	61	45	38	83	65	70	135	89	74	163	83	73	156	106	86	192	102	75	177
90-94	21	5	26	16	14	30	24	17	41	35	32	67	47	33	80	44	33	77	56	39	95
95+	9	0	9	7	1	8	6	4	10	8	5	13	12	9	21	17	9	26	16	9	25
Total	2192	2247	4439	2205	2247	4452	2200	2212	4412	2174	2148	4322	2116	2070	4186	2041	1981	4022	1955	1892	3847
0-14	296	320	616	281	294	575	249	277	526	246	276	522	248	280	528	248	278	526	239	270	509
15-64	1362	1354	2716	1280	1269	2549	1216	1208	2424	1109	1097	2206	1037	1028	2065	986	1013	1999	923	987	1910
65+	534	573	1107	644	684	1328	735	727	1462	819	775	1594	831	762	1593	807	690	1497	793	635	1428

Scenario 5

	2021			2026			2031			2036			2041			2046			2051		
	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T
0	14	21	35	17	19	36	18	21	39	20	22	42	20	22	42	20	23	43	20	23	43
1-4	74	73	147	68	76	144	72	81	153	79	87	166	82	91	173	82	92	174	82	93	175
5-9	112	109	221	93	99	192	90	100	190	95	107	202	103	114	217	107	118	225	107	120	227
10-14	96	117	213	117	114	231	98	104	202	95	105	200	100	112	212	107	119	226	112	123	235
15-19	92	84	176	101	122	223	122	119	241	103	109	212	100	110	210	104	117	221	112	124	236
20-24	82	92	174	98	90	188	107	128	235	128	125	253	109	114	223	105	116	221	110	123	233
25-29	88	113	201	89	99	188	105	97	202	114	135	249	135	132	267	115	122	237	112	123	235
30-34	107	107	214	95	120	215	97	106	203	113	104	217	121	142	263	141	139	280	122	129	251
35-39	151	119	270	114	114	228	103	127	230	104	113	217	120	111	231	127	149	276	148	146	294
40-44	130	102	232	155	123	278	118	118	236	107	131	238	108	117	225	122	115	237	131	152	283
45-49	150	158	308	129	101	230	154	121	275	117	116	233	106	129	235	107	116	223	121	114	235
50-54	196	204	400	152	159	311	131	102	233	155	123	278	119	118	237	108	130	238	109	117	226
55-59	180	170	350	200	207	407	157	162	319	136	107	243	160	127	287	123	122	245	114	135	249
60-64	186	205	391	185	173	358	205	209	414	162	166	328	143	113	256	164	132	296	130	127	257
65-69	146	173	319	192	206	398	190	176	366	210	209	419	169	169	338	147	119	266	170	137	307
70-74	157	167	324	147	167	314	190	197	387	189	170	359	207	200	407	166	163	329	148	118	266
75-79	106	138	244	147	148	295	137	148	285	176	174	350	175	151	326	191	176	367	154	145	299
80-84	64	60	124	91	110	201	125	117	242	117	117	234	150	137	287	147	120	267	162	139	301
85-89	31	30	61	45	38	83	65	70	135	89	74	163	84	74	158	107	87	194	103	76	179
90-94	21	5	26	16	14	30	24	17	41	35	32	67	48	33	81	44	33	77	57	39	96
95+	9	0	9	7	1	8	6	4	10	8	5	13	12	9	21	17	9	26	16	9	25
Total	2192	2247	4439	2258	2300	4558	2314	2324	4638	2352	2331	4683	2371	2325	4696	2351	2317	4668	2340	2312	4652
0-14	296	320	616	295	308	603	278	306	584	289	321	610	305	339	644	316	352	668	321	359	680
15-64	1362	1354	2716	1318	1308	2626	1299	1289	2588	1239	1229	2468	1221	1213	2434	1216	1258	2474	1209	1290	2499
65+	534	573	1107	645	684	1329	737	729	1466	824	781	1605	845	773	1618	819	707	1526	810	663	1473

