

Compendium

# Summary results



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# 1 . Introduction

This article provides a summary of the results of the 2016-based national population projections for the UK and provides additional charts and summary tables illustrating the results of the projections. For discussion of the results see the statistical bulletin.

Included in this report are:

- results, which can also be examined using the interactive population pyramids, which allow comparisons of the projected age structure up to mid-2116
- comparison with the results of the 2014-based national population projections
- estimated and projected total population, year ending mid-1971 to year ending mid-2091
- estimated and projected births and deaths, year ending mid-1971 to year ending mid-2091
- percentage age distribution for the period, year ending mid-1971 to year ending mid-2091
- change in the projected population at 2041 by age and sex compared with the 2014-based projections

This chapter focuses on the principal projection. Discussion of the results of the variant projections can be found in the [variants chapter](#).

## 2 . Summary of results

### Results

The UK population is projected to increase from an estimated 65.6 million in mid-2016 to 72.9 million by mid-2041. Of the projected 7.3 million increase between mid-2016 and mid-2041, approximately 2.8 million (39%) is because of projected natural increase (more births than deaths) while around 4.4 million (61%) is because of net migration.

### Summary results tables

Table 2.1 summarises the projection results by components of change from mid-2016 to mid-2041 for the UK. The equivalent tables for the constituent countries of the UK are found in appendices A to D.

**Table 2.1: Components of change: summary (annual average over period), UK, mid-2016 to mid-2041**

	Thousands					
	2016 to 2017	2017 to 2022	2022 to 2027	2027 to 2032	2032 to 2037	2037 to 2041
Population at start	65,648	66,051	67,961	69,533	70,881	72,035
Births	762	774	768	756	759	782
Deaths	605	598	619	652	693	729
Natural change	157	176	149	104	66	52
Migration	246	206	165	165	165	165
Total change	403	382	314	269	231	217
Population at end	66,051	67,961	69,533	70,881	72,035	72,905

Source: Office for National Statistics

Notes:

1. Figures may not sum because of rounding.
2. Years refer to mid-year to mid-year intervals.

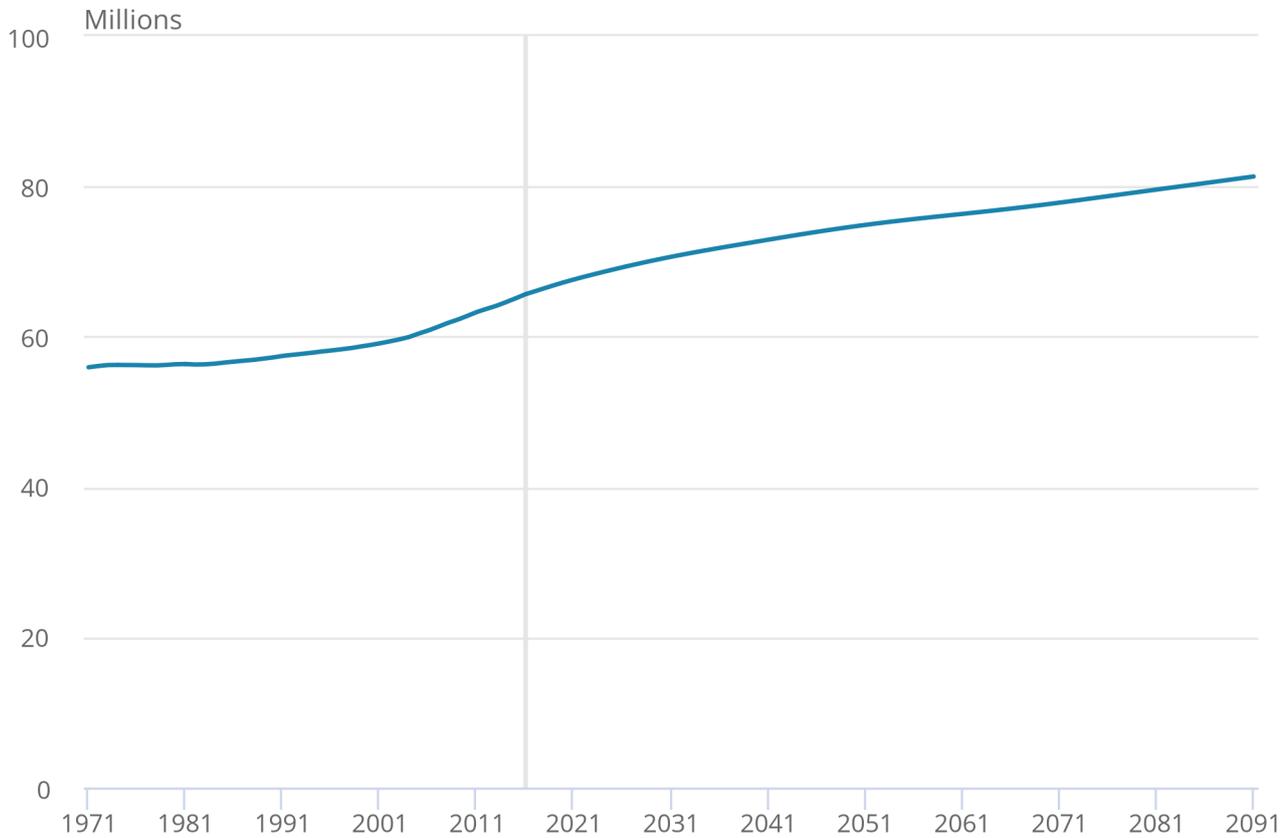
## Charts of summary results

This section presents charts for the UK for the year ending mid-1971 to the year ending mid-2091. The equivalent charts for the constituent countries of the UK are available in the appendices A to D.

Figure 2.1 shows the estimated and projected total population in the UK between mid-1971 and mid-2091. The UK population is projected to continue to rise gradually over the period to mid-2091.

**Figure 2.1: Estimated and projected total population, UK, year ending mid-1971 to year ending mid-2091**

Figure 2.1: Estimated and projected total population, UK, year ending mid-1971 to year ending mid-2091



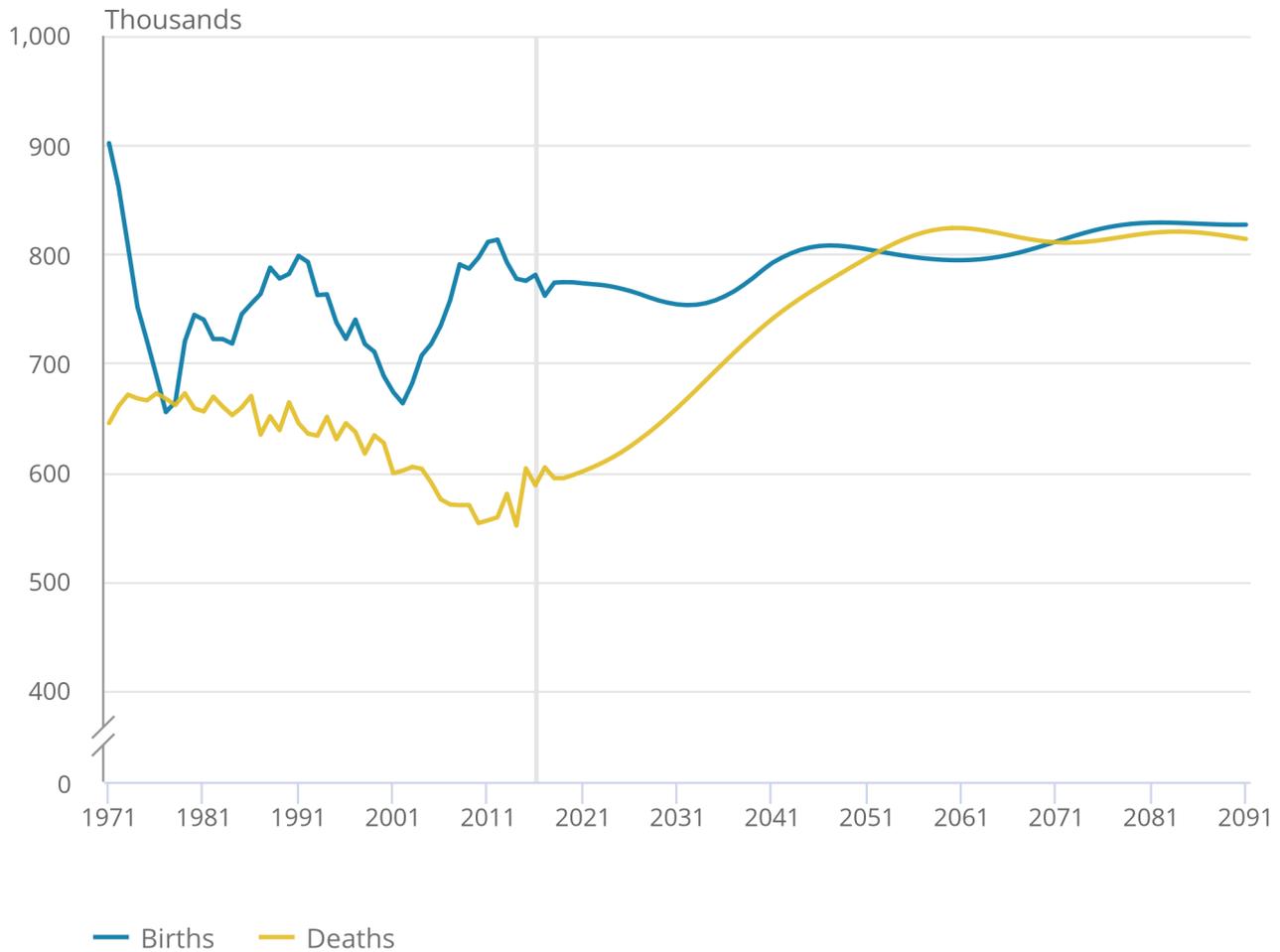
Source: Office for National Statistics

**Source: Office for National Statistics**

Figure 2.2 shows the estimated and projected births and deaths in the UK. The trends seen in the first year of the projection are the result of constraining the projections to the provisional estimates of births and deaths for the year ending mid-2017.

Figure 2.2: Estimated and projected births and deaths, UK, year ending mid-1971 to year ending mid-2091

Figure 2.2: Estimated and projected births and deaths, UK, year ending mid-1971 to year ending mid-2091



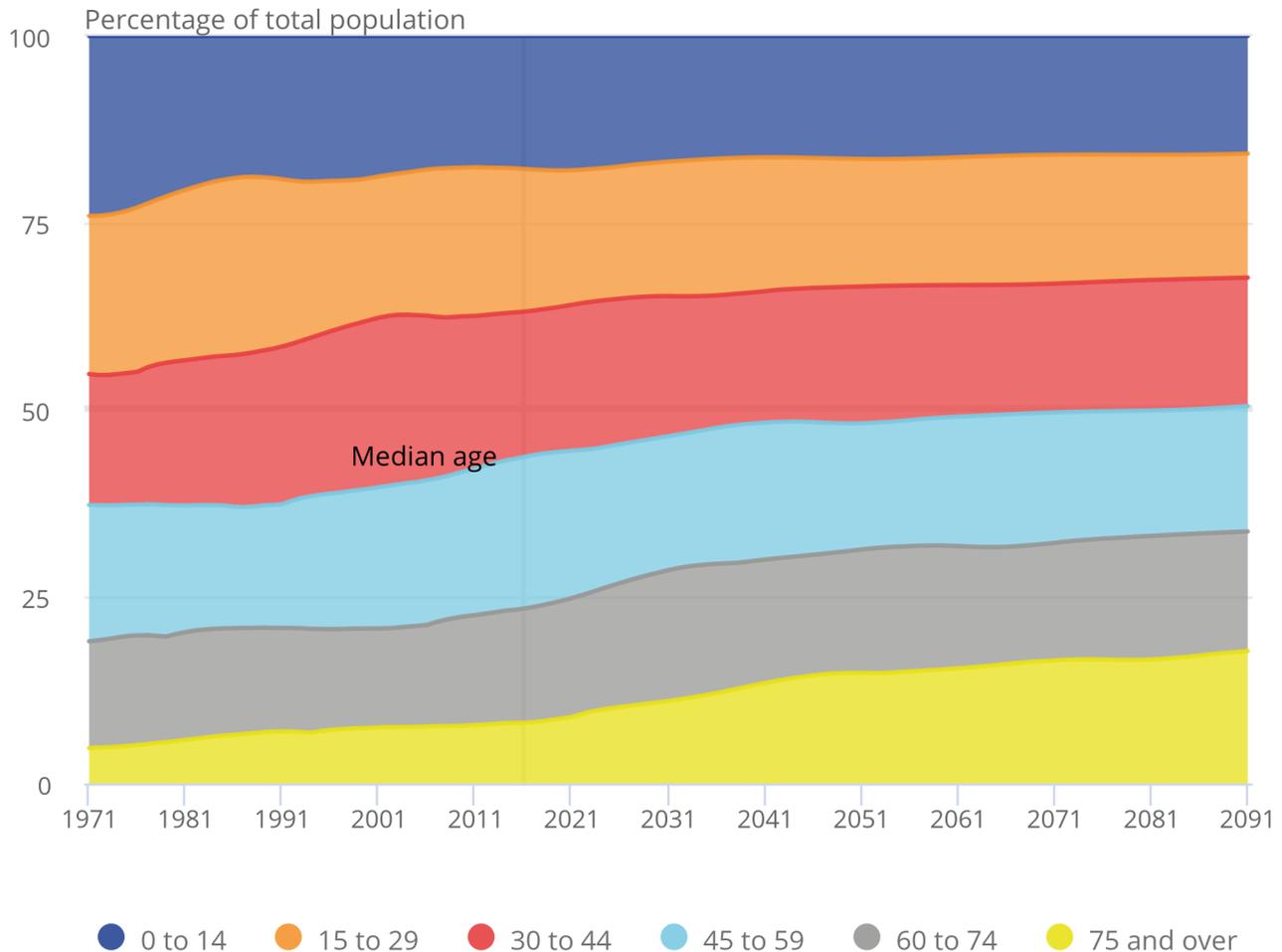
Source: Office for National Statistics

Source: Office for National Statistics

Figure 2.3 shows how the age distribution of the UK is projected to change. The median age of the population increases through the projection period.

**Figure 2.3: Percentage age distribution, UK, year ending mid-1971 to year ending mid-2091**

Figure 2.3: Percentage age distribution, UK, year ending mid-1971 to year ending mid-2091



Source: Office for National Statistics

Source: Office for National Statistics

### 3 . Comparison with previous projections

#### Base population

Overall, the published mid-2016 population estimate for the UK is about 76,000 (0.1%) higher than the 2014-based projection of the population at mid-2016.

## Projected future population

The projected population of the UK at mid-2041 is about 2.0 million (2.6%) lower than in the 2014-based projections. This is because the 2016-based projections assume lower levels of long-term net international migration, a slower rate of increase in life expectancy and a reduction in the long-term assumed number of children born to women compared with the 2014-based projections.

At mid-2041, populations are projected to be lower than in the 2014-based projections for all four countries of the UK. The percentage difference by mid-2041 is greatest for England where the 2016-based projection is 3.0% lower than the 2014-based projections when comparing the principal population projection. For Wales, Scotland and Northern Ireland, the differences by mid-2041 are 0.1%, 0.4% and 0.1% lower respectively.

Compared with the previous projections, the UK population at mid-2041 is also lower in all broad age groups with the exception of the 60 to 74 group where it is 118,000 higher than the 2014-based projections.

Comparisons with the previous projections (2014-based NPPs) are given in Table 2.2 and illustrated in Figure 2.4

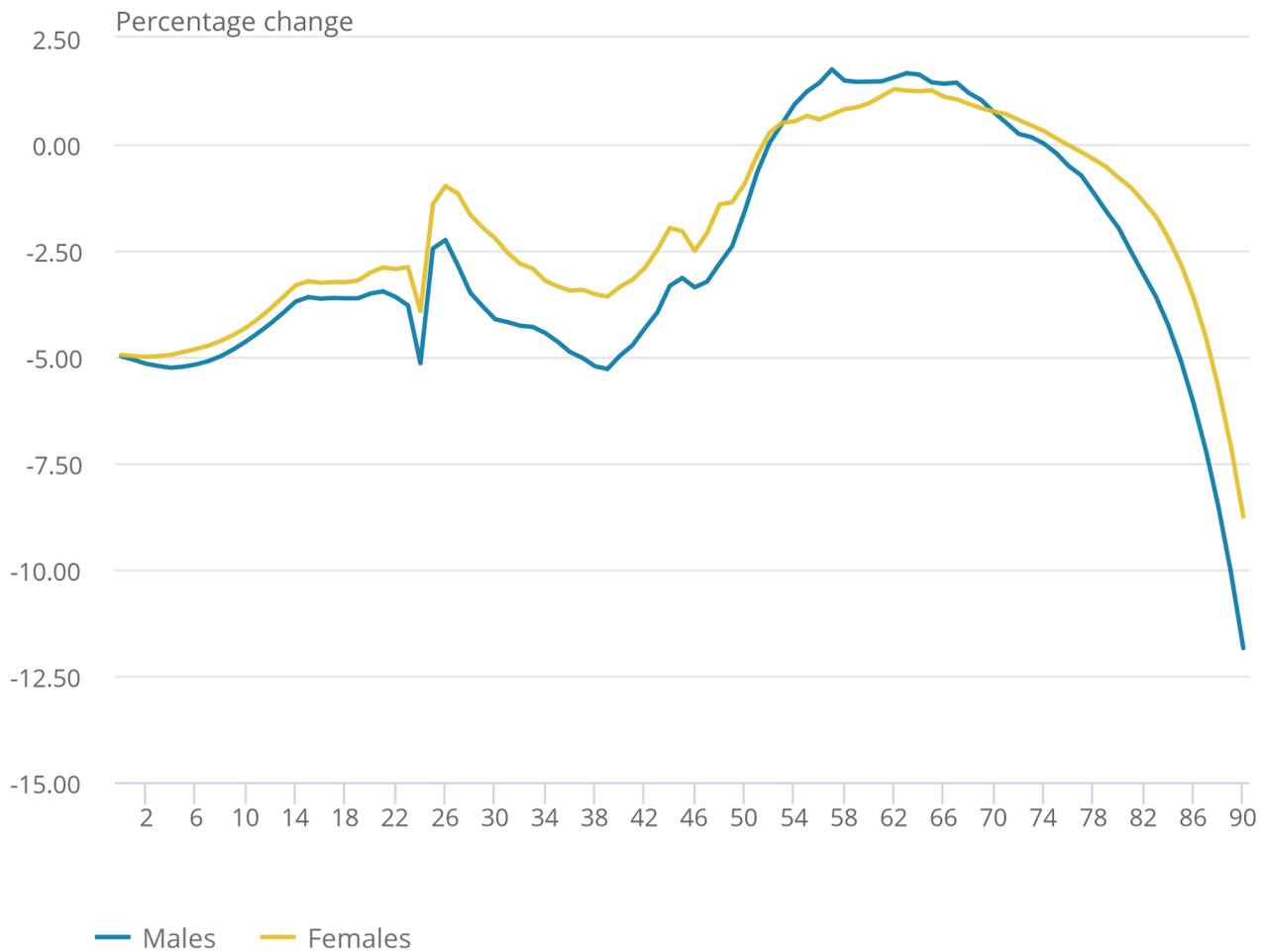
**Table 2.2: Changes in projected population by age compared with 2014-based projections, UK**

Age group	Mid-2016		Mid-2021		Mid-2026		Mid-2041	
	Change (thousands)	Percentage change						
0 to 14	47.5	0.4	-30.6	-0.3	-221.4	-1.8	-578.4	-4.7
15 to 29	-26.6	-0.2	-105.9	-0.9	-131.8	-1.1	-411.4	-3.1
30 to 44	30.8	0.2	6.4	0.0	-144.3	-1.1	-501.2	-3.8
45 to 59	28.3	0.2	73.8	0.6	107.5	0.8	-69.0	-0.5
60 to 74	10.1	0.1	17.9	0.2	33.8	0.3	117.5	1.0
75 and over	-14.5	-0.3	-126.8	-2.1	-252.3	-3.4	-536.6	-5.2
All ages	75.6	0.1	-165.1	-0.2	-608.5	-0.9	-1979.1	-2.6

Source: Office for National Statistics

**Figure 2.4: Change in projected population at mid-2041 by age and sex compared with the 2014-based projections, UK**

Figure 2.4: Change in projected population at mid-2041 by age and sex compared with the 2014-based projections, UK



Source: Office for National Statistics

**Source: Office for National Statistics**

**Notes:**

1. Where the percentage change is greater than 0, the 2016-based projection is greater than the 2014-based projection.
2. Where the percentage change is less than 0, the 2016-based projection is less than the 2014-based projection.

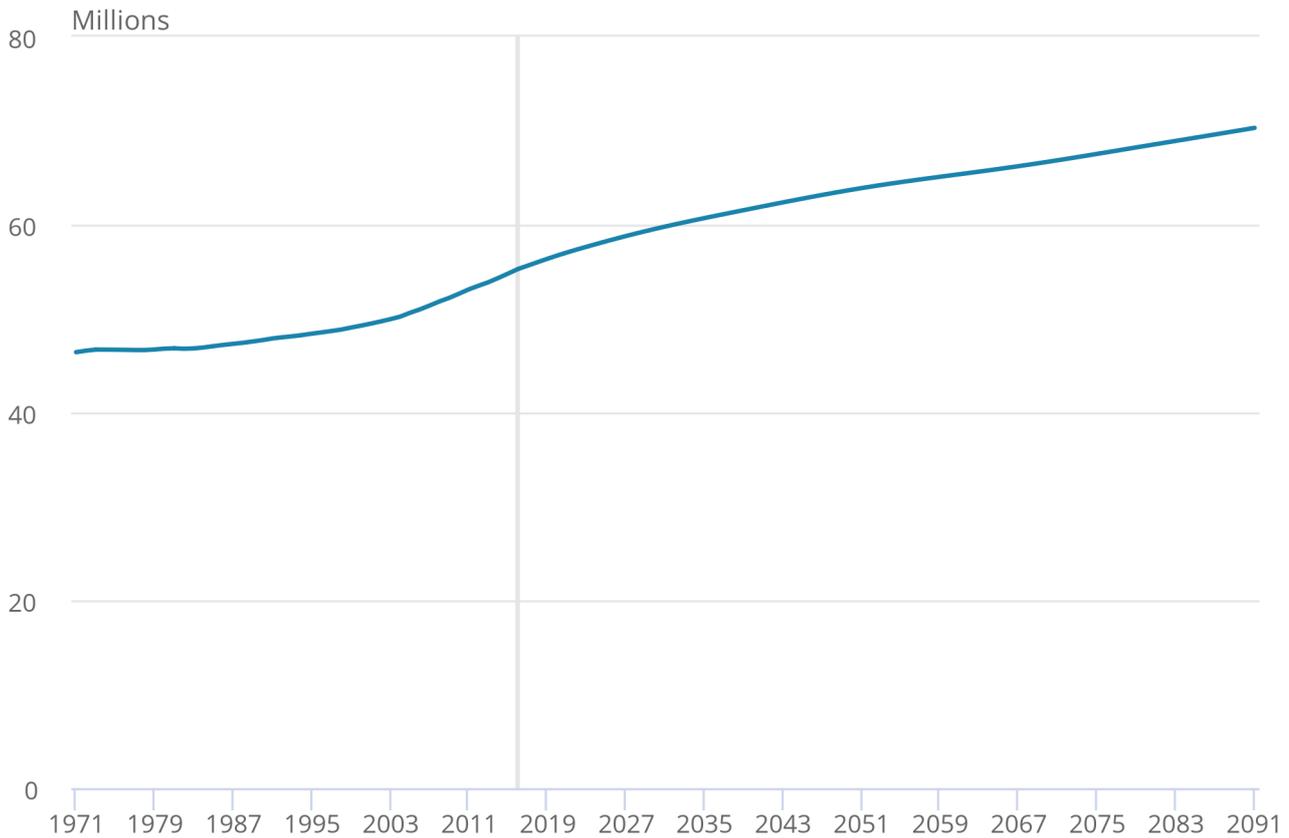
At mid-2041, populations are projected to be lower than in the 2014-based projections in all broad age groups with the exception of those in their early 50s to early 70s.

The equivalent charts for the constituent countries of the UK can be found in the relevant appendices.

## 4 . Appendix A: England charts

Figure 2.1a: Estimated and projected total population, England, year ending mid-1971 to year ending mid-2091

Figure 2.1a: Estimated and projected total population, England, year ending mid-1971 to year ending mid-2091

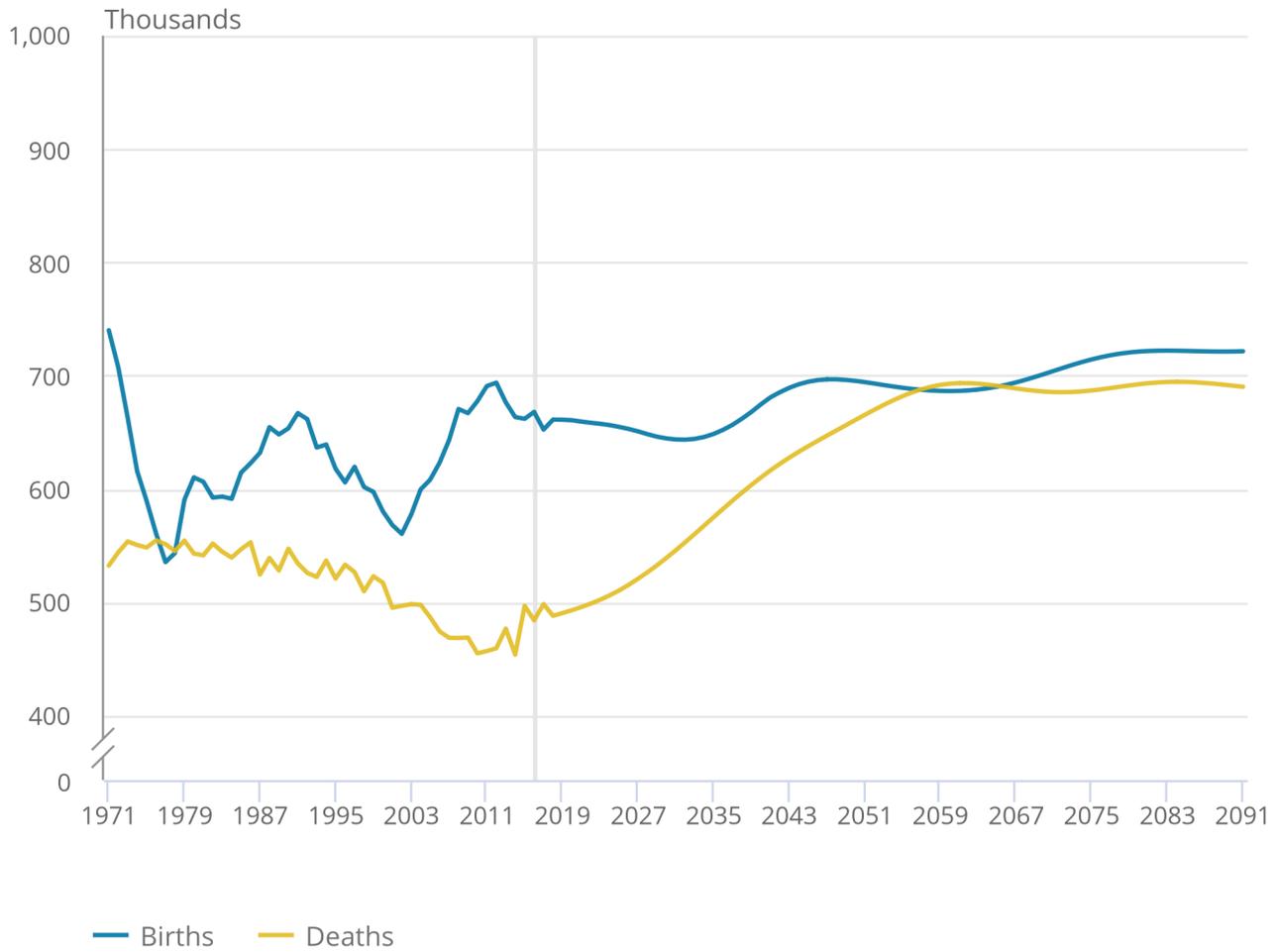


Source: Office for National Statistics

Source: Office for National Statistics

**Figure 2.2a: Estimated and projected births and deaths, England, year ending mid-1971 to year ending mid-2091**

Figure 2.2a: Estimated and projected births and deaths, England, year ending mid-1971 to year ending mid-2091

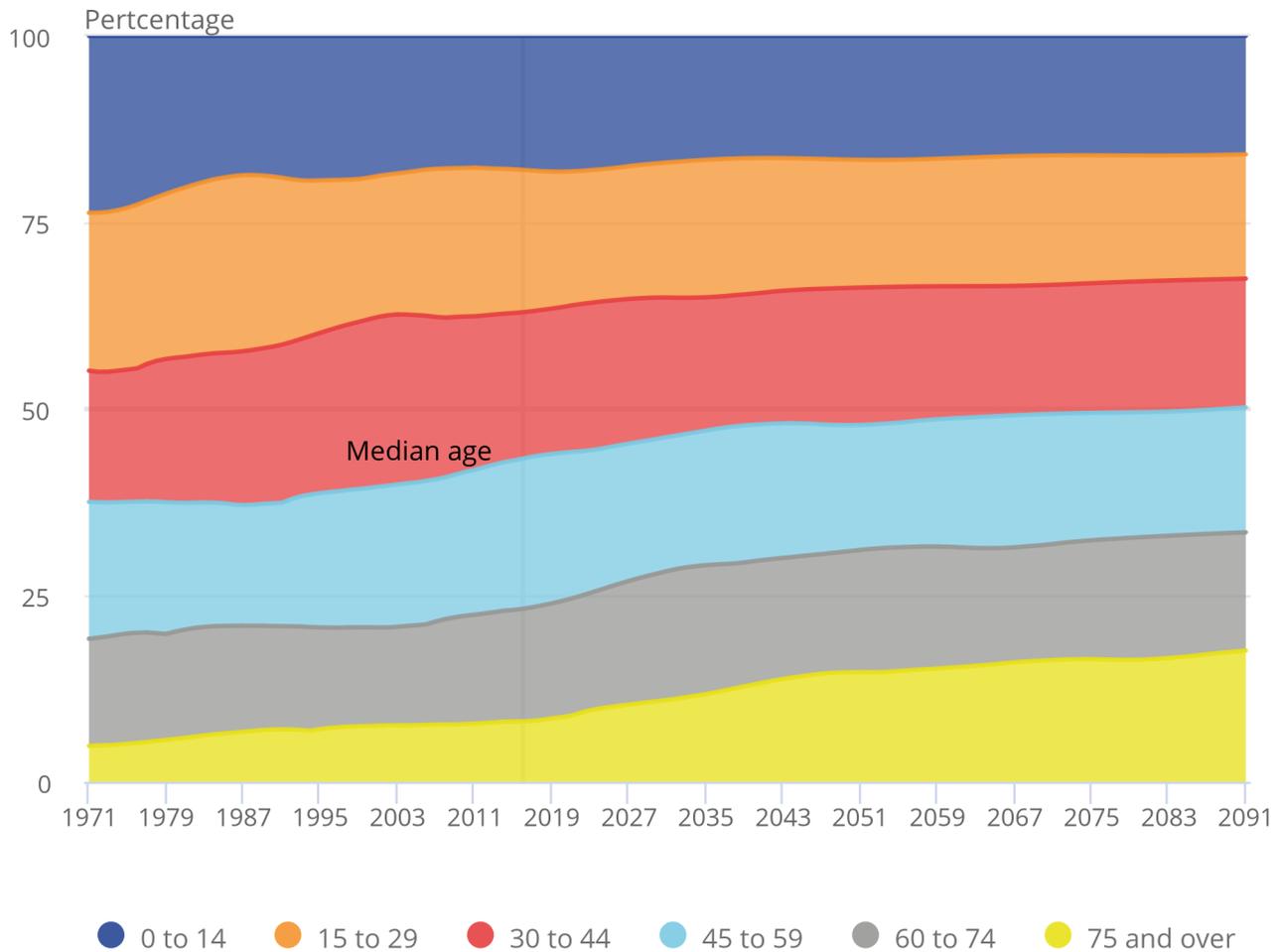


Source: Office for National Statistics

Source: Office for National Statistics

Figure 2.3a: Percentage age distribution, England, year ending mid-1971 to year ending mid-2091

Figure 2.3a: Percentage age distribution, England, year ending mid-1971 to year ending mid-2091

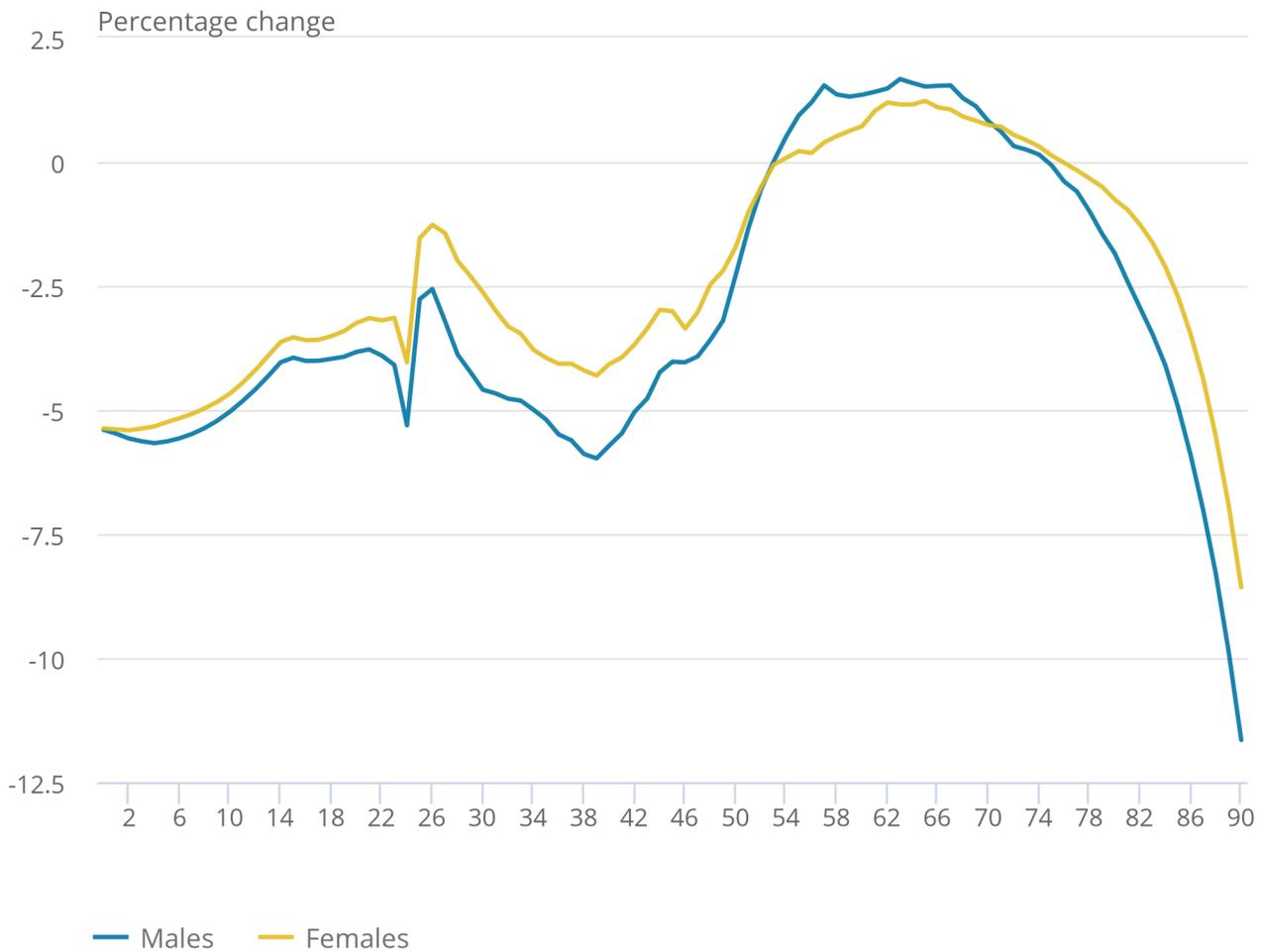


Source: Office for National Statistics

Source: Office for National Statistics

**Figure 2.4a: Change in projected population at mid-2041 by age and sex compared with the 2014-based projections, England**

Figure 2.4a: Change in projected population at mid-2041 by age and sex compared with the 2014-based projections, England



Source: Office for National Statistics

Source: Office for National Statistics

**Notes:**

1. Where the percentage change is greater than 0, the 2016-based projection is greater than the 2014-based projection.
2. Where the percentage change is less than 0, the 2016-based projection is less than the 2014-based projection.

**Table 2.1a: Components of change: summary (annual average over period), England, mid-2016 to mid-2041**

	Thousands					
	2016 to 2017	2017 to 2022	2022 to 2027	2027 to 2032	2032 to 2037	2037 to 2041
Population at start	55,268	55,629	57,344	58,779	60,024	61,117
Births	653	660	655	645	650	672
Deaths	498	493	511	540	575	607
Natural change	154	167	143	106	74	65
Migration	206	176	143	143	144	144
Total change	360	343	287	249	219	209
Population at end	55,629	57,344	58,779	60,024	61,117	61,952

Source: Office for National Statistics

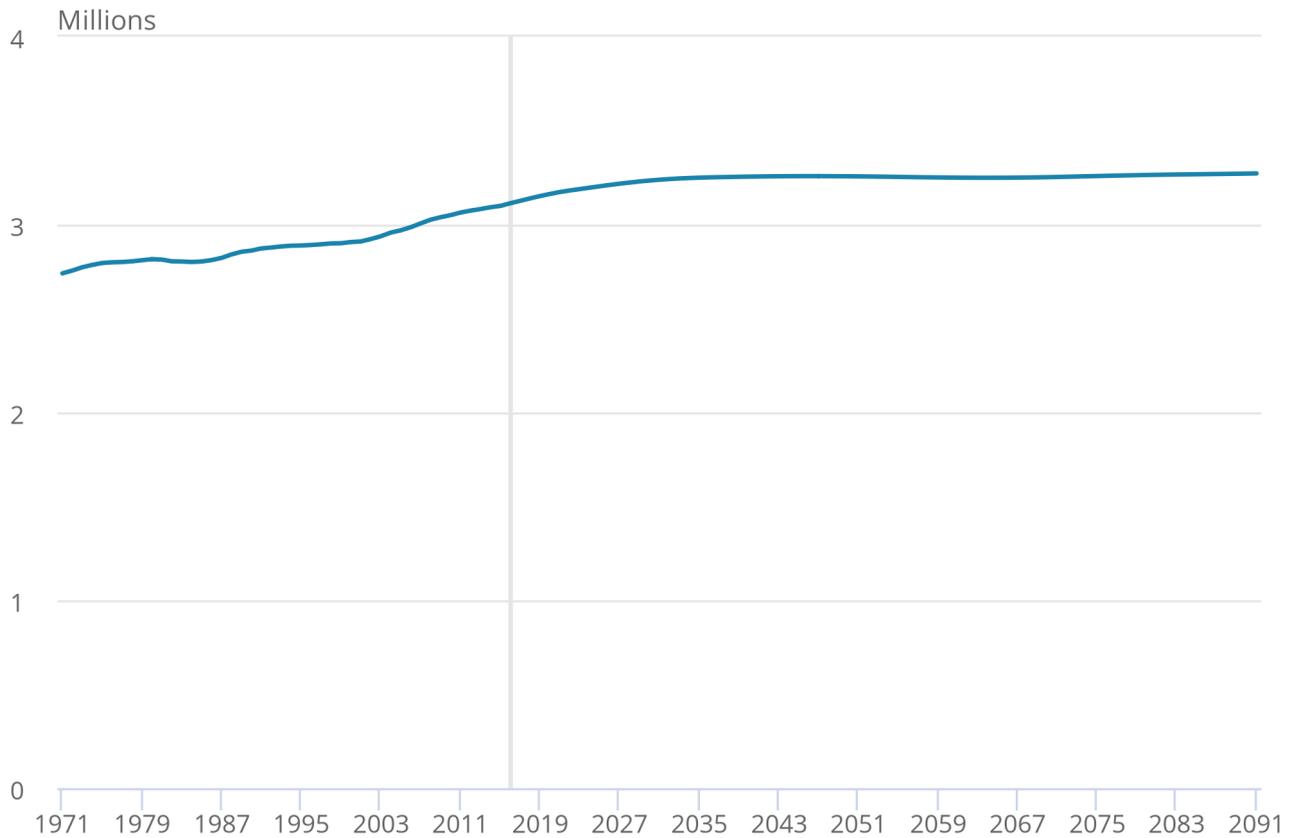
Notes:

1. Figures may not sum because of rounding.
2. Years refer to mid-year to mid-year intervals.

## 5 . Appendix B: Wales charts

Figure 2.1b: Estimated and projected total population, Wales, year ending mid-1971 to year ending mid-2091

Figure 2.1b: Estimated and projected total population, Wales, year ending mid-1971 to year ending mid-2091

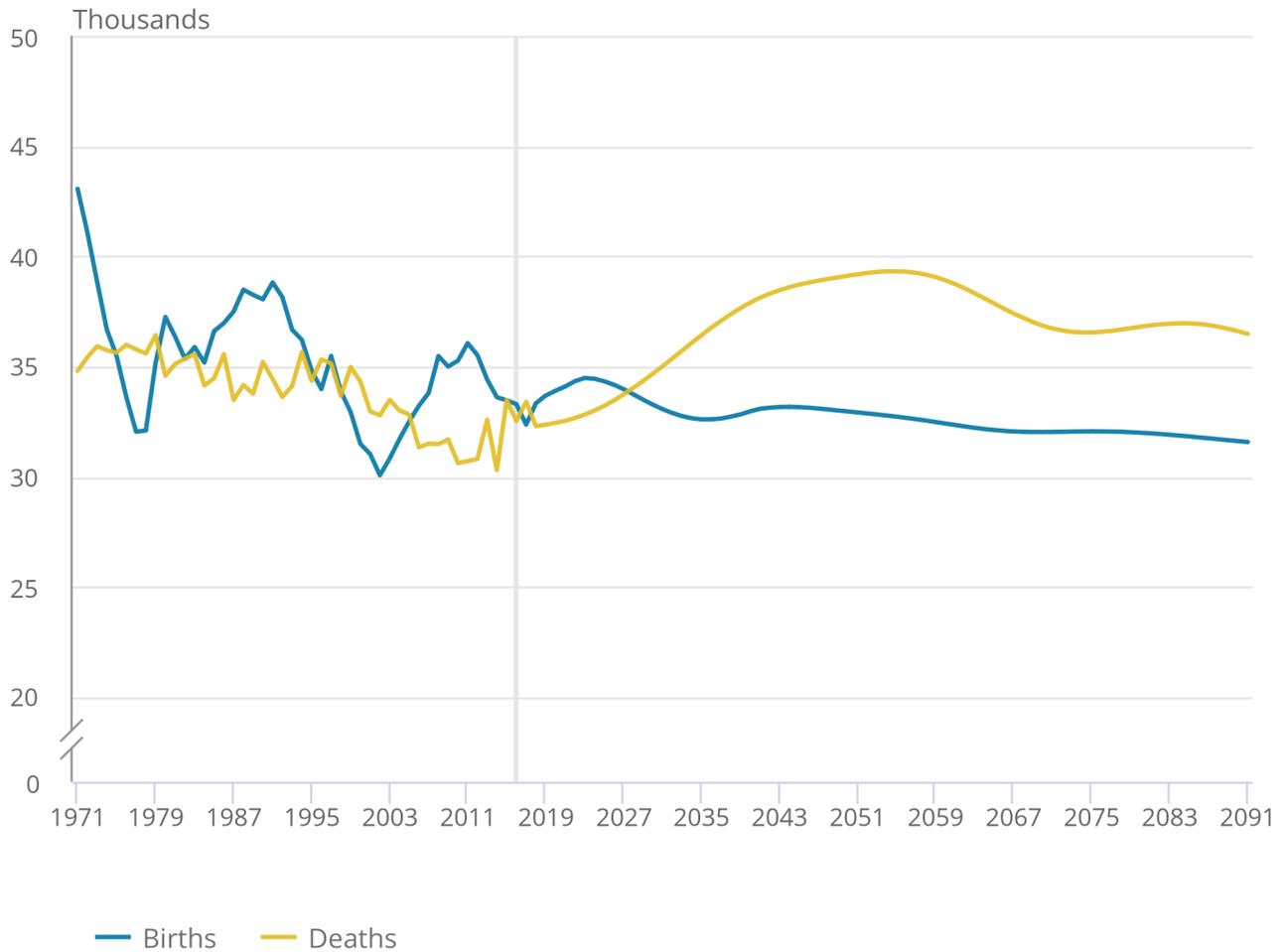


Source: Office for National Statistics

Source: Office for National Statistics

**Figure 2.2b: Estimated and projected births and deaths, Wales, year ending mid-1971 to year ending mid-2091**

Figure 2.2b: Estimated and projected births and deaths, Wales, year ending mid-1971 to year ending mid-2091

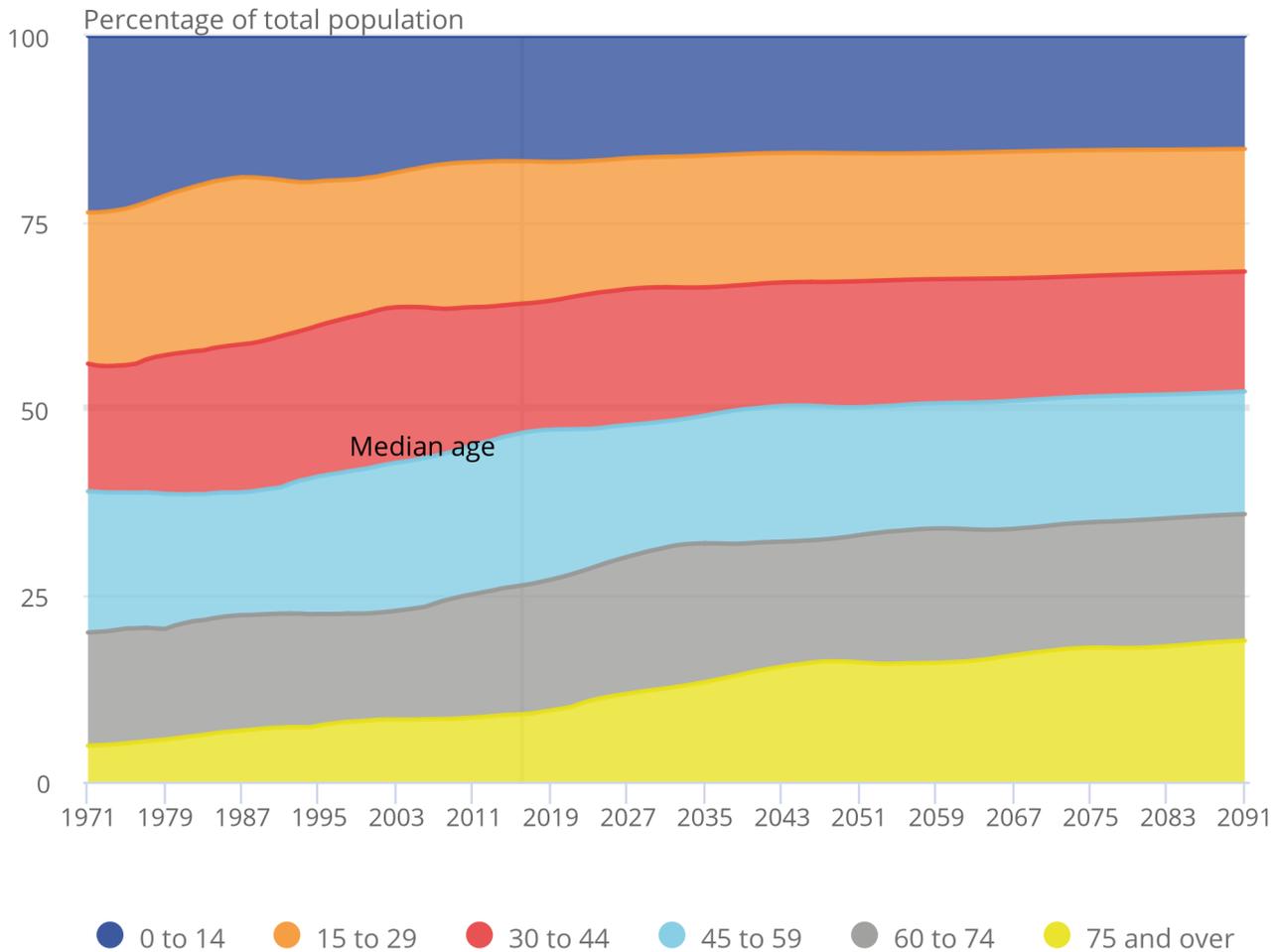


Source: Office for National Statistics

Source: Office for National Statistics

Figure 2.3b: Percentage age distribution, Wales, year ending mid-1971 to year ending mid-2091

Figure 2.3b: Percentage age distribution, Wales, year ending mid-1971 to year ending mid-2091

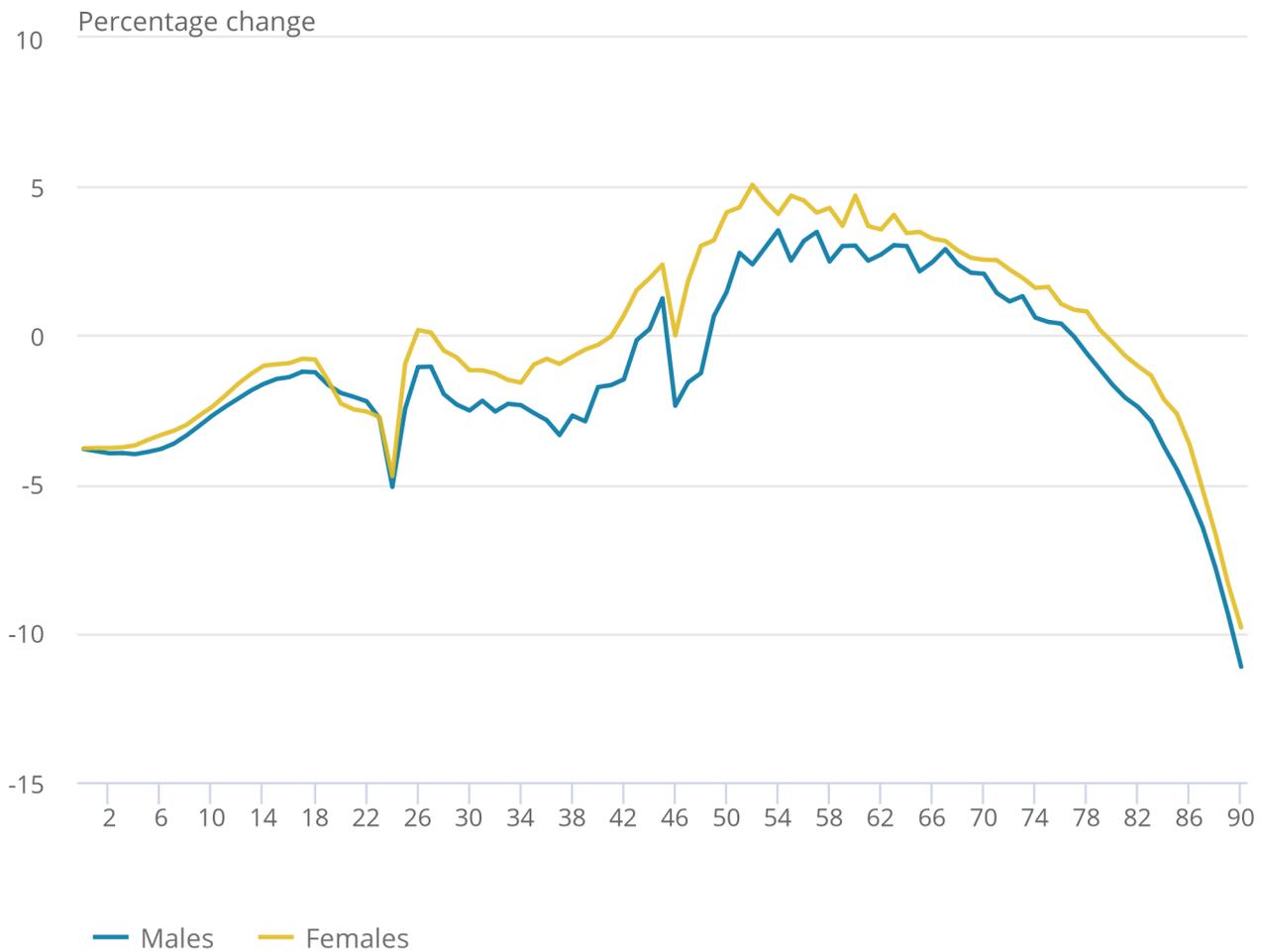


Source: Office for National Statistics

Source: Office for National Statistics

**Figure 2.4b: Change in projected population at mid-2041 by age and sex compared with the 2014-based projections, Wales**

Figure 2.4b: Change in projected population at mid-2041 by age and sex compared with the 2014-based projections, Wales



Source: Office for National Statistics

Source: Office for National Statistics

**Notes:**

1. Where the percentage change is greater than 0, the 2016-based projection is greater than the 2014-based projection.
2. Where the percentage change is less than 0, the 2016-based projection is less than the 2014-based projection.

**Table 2.1b: Components of change: summary (annual average over period), Wales, mid-2016 to mid-2041**

Thousands

	<b>2016 to 2017</b>	<b>2017 to 2022</b>	<b>2022 to 2027</b>	<b>2027 to 2032</b>	<b>2032 to 2037</b>	<b>2037 to 2041</b>
Population at start	3,113	3,126	3,182	3,218	3,242	3,252
Births	32	34	34	33	33	33
Deaths	33	32	33	35	36	38
Natural change	-1	1	1	-1	-4	-5
Migration	14	10	6	6	6	6
Total change	13	11	285	5	2	1
Population at end	3,126	3,182	3,218	3,242	3,252	3,256

Source: Office for National Statistics

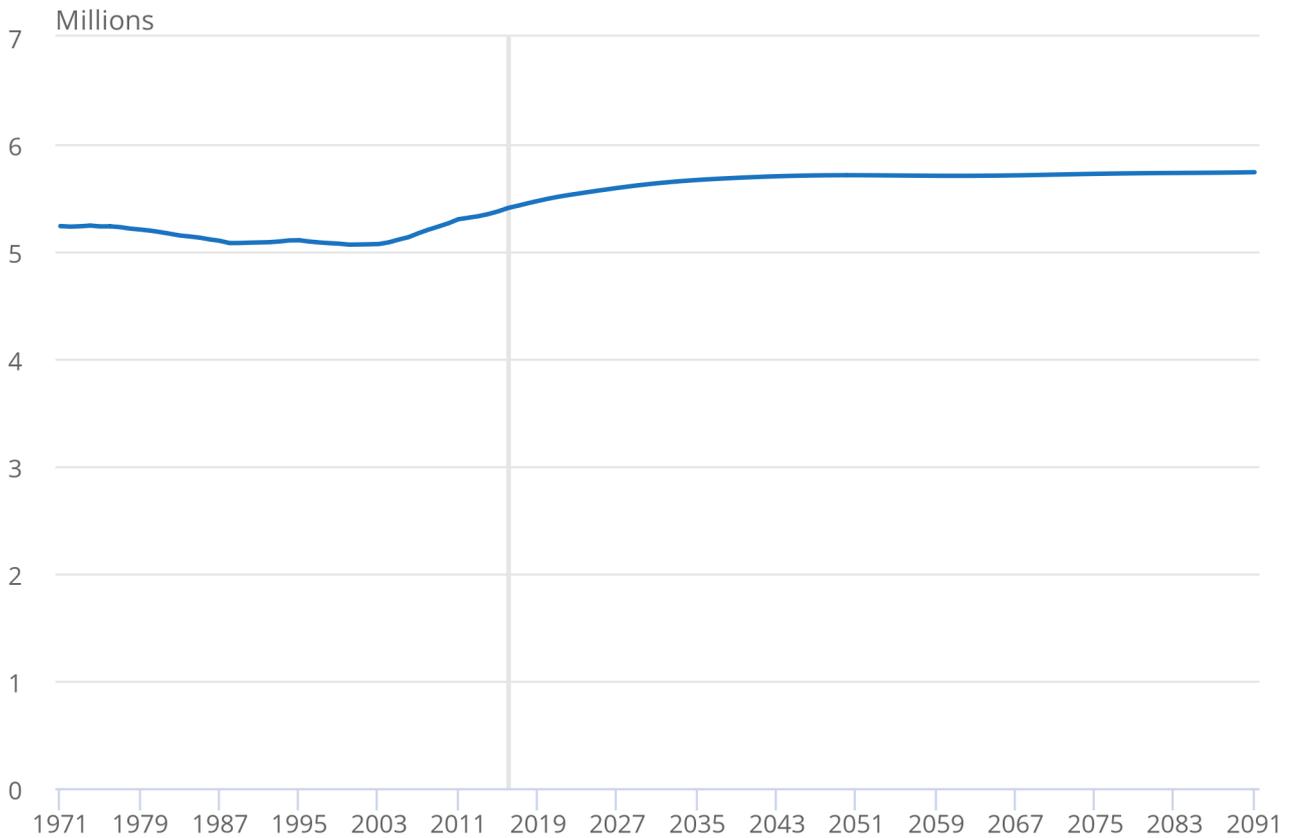
Notes:

1. Figures may not sum because of rounding.
2. Years refer to mid-year to mid-year intervals.

## 6 . Appendix C: Scotland charts

Figure 2.1c: Estimated and projected total population, Scotland, year ending mid-1971 to year ending mid-2091

Figure 2.1c: Estimated and projected total population, Scotland, year ending mid-1971 to year ending mid-2091

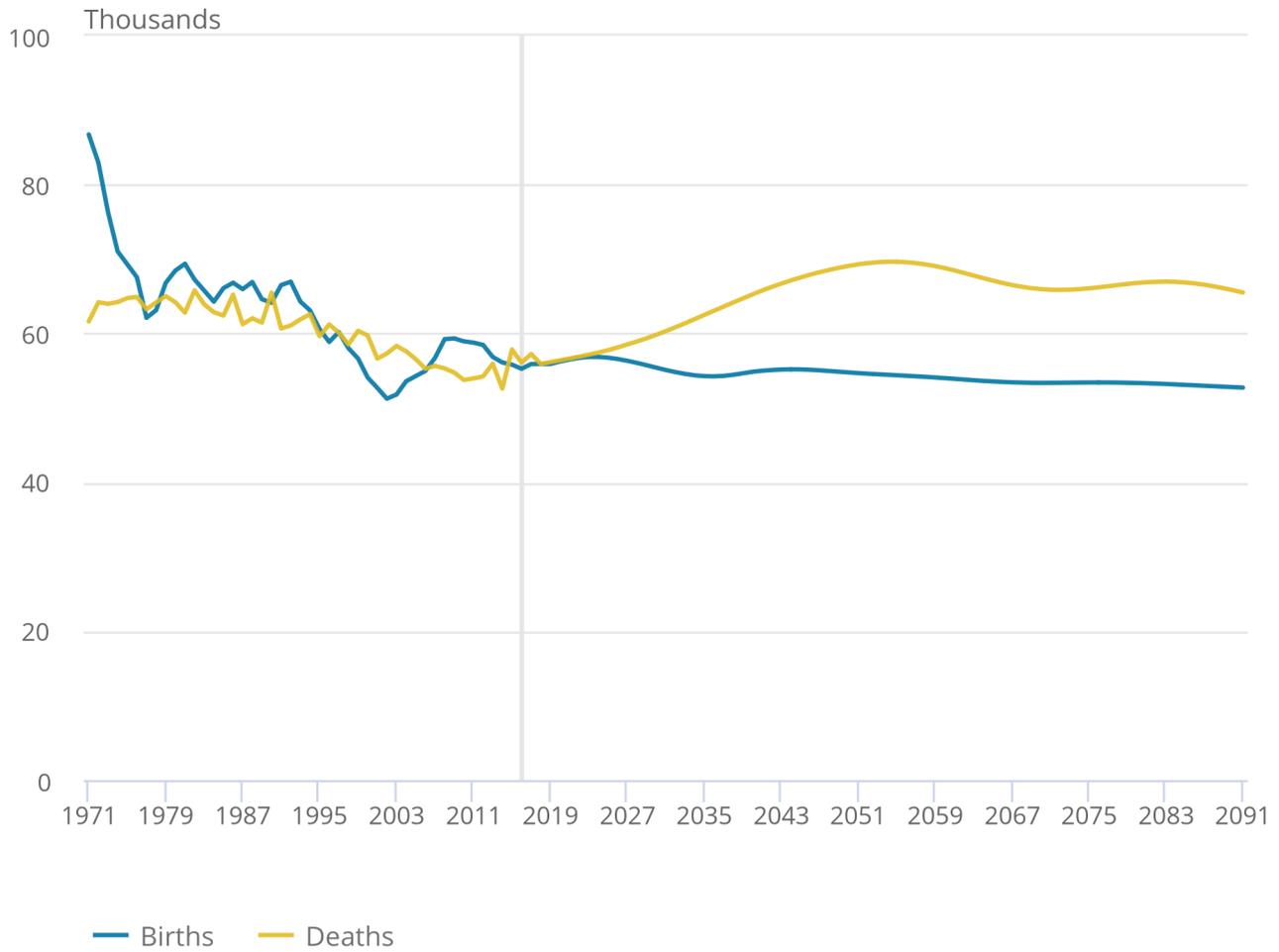


Source: Office for National Statistics

Source: Office for National Statistics

**Figure 2.2c: Estimated and projected births and deaths, Scotland, year ending mid-1971 to year ending mid-2091**

Figure 2.2c: Estimated and projected births and deaths, Scotland, year ending mid-1971 to year ending mid-2091

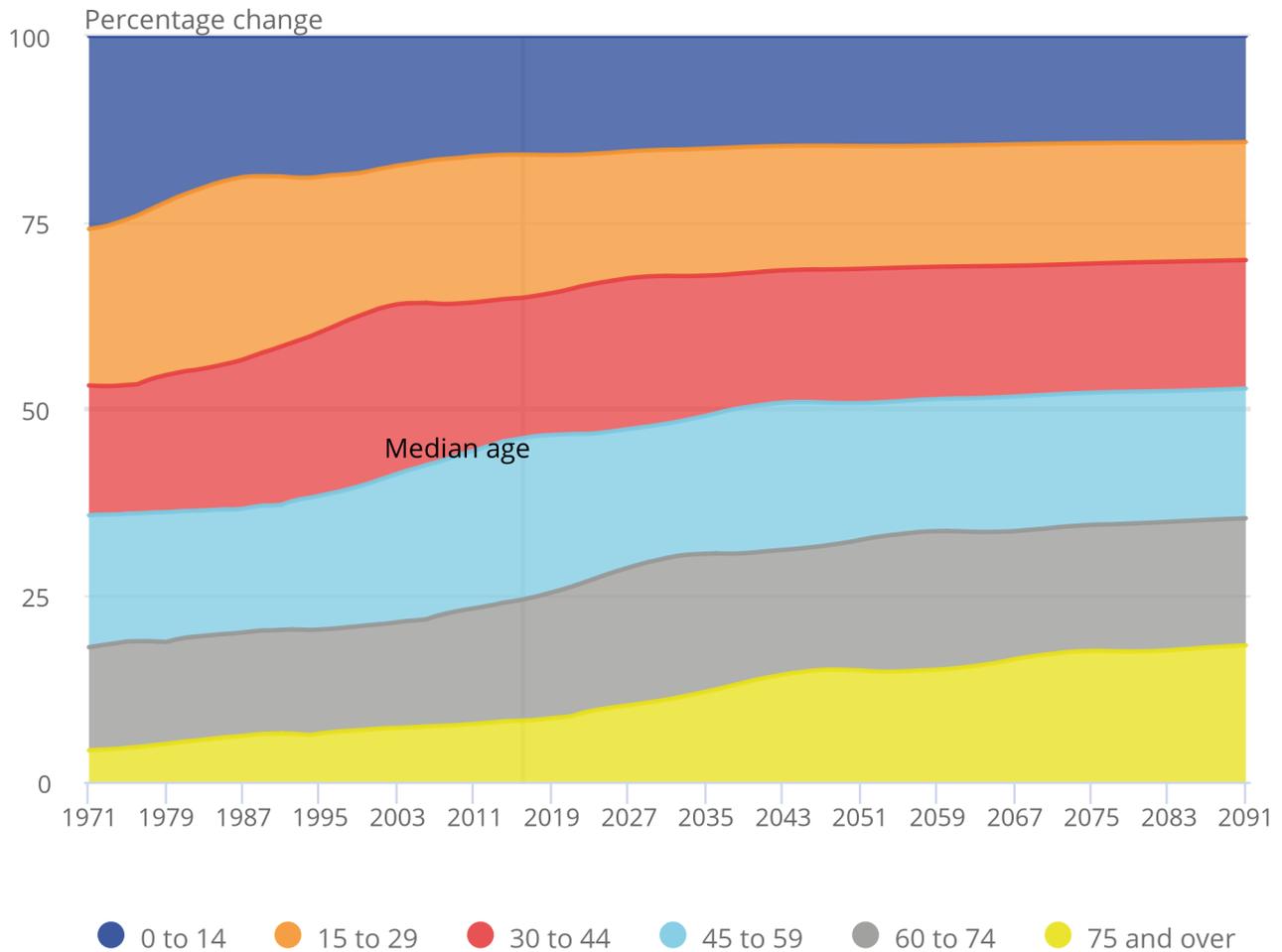


Source: Office for National Statistics

Source: Office for National Statistics

Figure 2.3c: Percentage age distribution, Scotland, year ending mid-1971 to year ending mid-2091

Figure 2.3c: Percentage age distribution, Scotland, year ending mid-1971 to year ending mid-2091

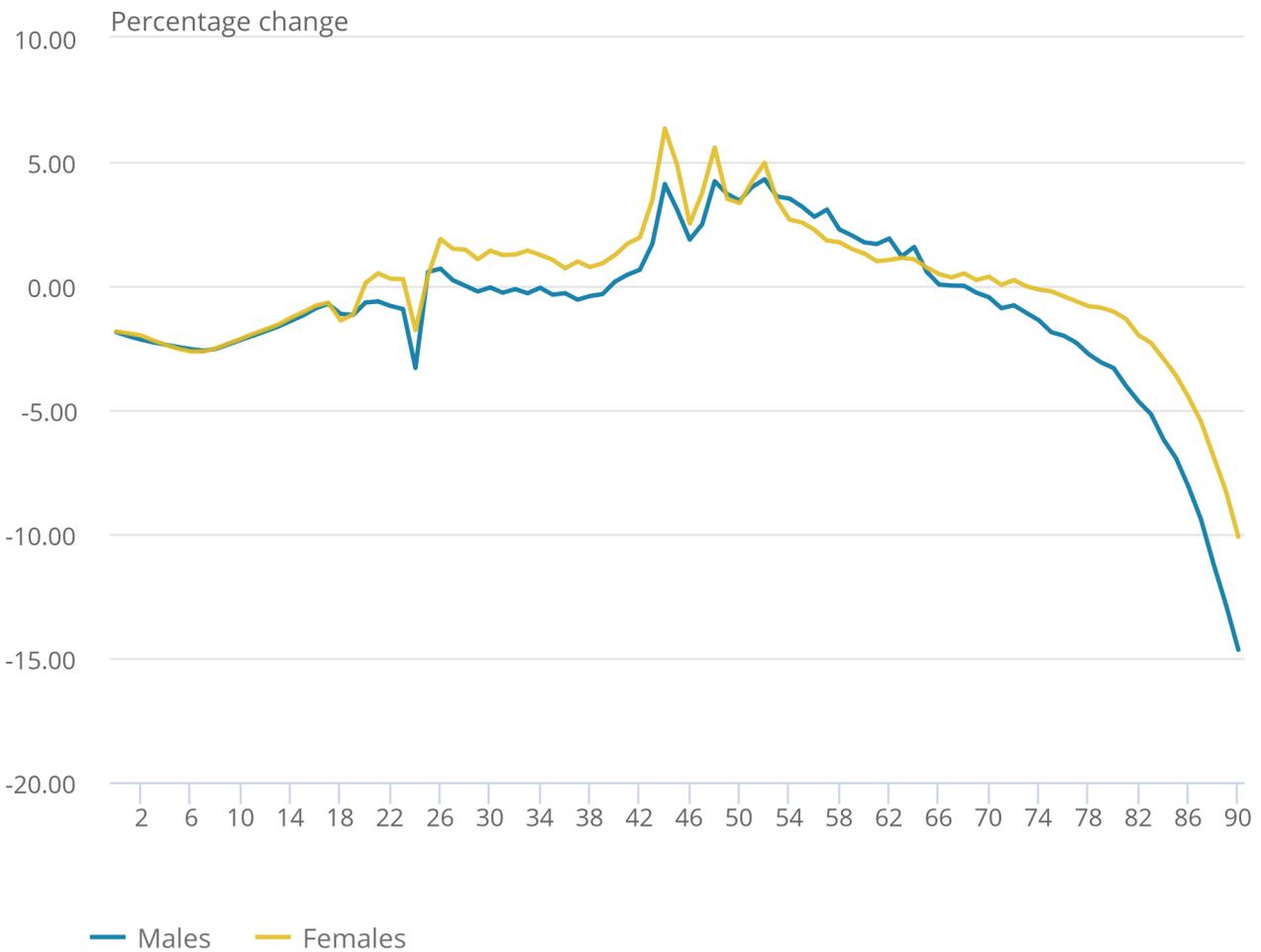


Source: Office for National Statistics

Source: Office for National Statistics

**Figure 2.4c: Change in projected population at mid-2041 by age and sex compared with the 2014-based projections, Scotland**

Figure 2.4c: Change in projected population at mid-2041 by age and sex compared with the 2014-based projections, Scotland



Source: Office for National Statistics

Source: Office for National Statistics

**Notes:**

1. Where the percentage change is greater than 0, the 2016-based projection is greater than the 2014-based projection.

**Table 2.1c: Components of change: summary (annual average over period), Scotland, mid-2016 to mid-2041**

Thousands

	2016 to 2017	2017 to 2022	2022 to 2027	2027 to 2032	2032 to 2037	2037 to 2041
Population at start	5,405	5,426	5,524	5,591	5,644	5,676
Births	53	56	57	55	54	55
Deaths	57	56	58	60	62	65
Natural change	-4	-0	-1	-4	-8	-10
Migration	25	20	15	15	15	15
Total change	21	20	14	10	6	4
Population at end	5,426	5,524	5,591	5,644	5,676	5,693

Source: Office for National Statistics

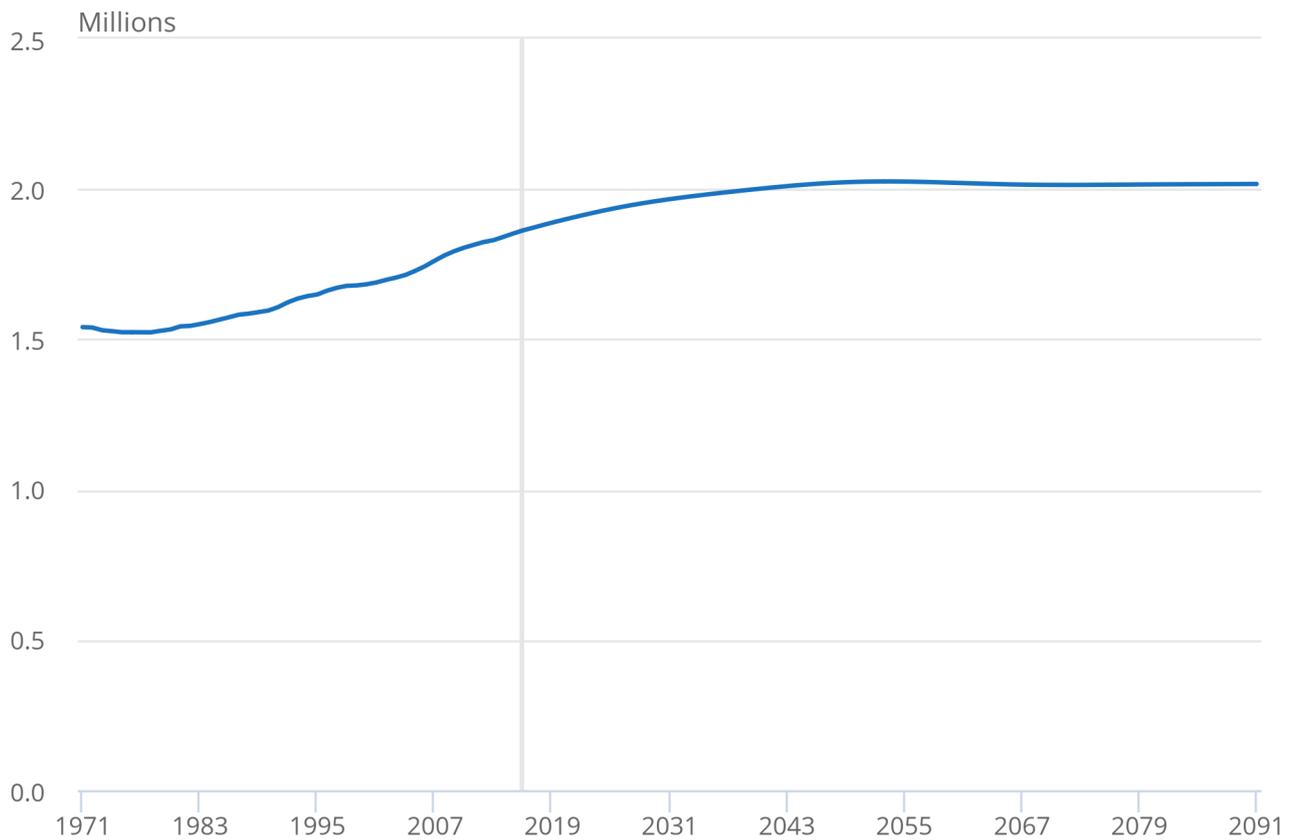
Notes:

1. Figures may not sum because of rounding.
2. Years refer to mid-year to mid-year intervals.

## 7 . Appendix D: Northern Ireland charts

Figure 2.1d: Estimated and projected total population, Northern Ireland, year ending mid-1971 to year ending mid-2091

Figure 2.1d: Estimated and projected total population, Northern Ireland, year ending mid-1971 to year ending mid-2091

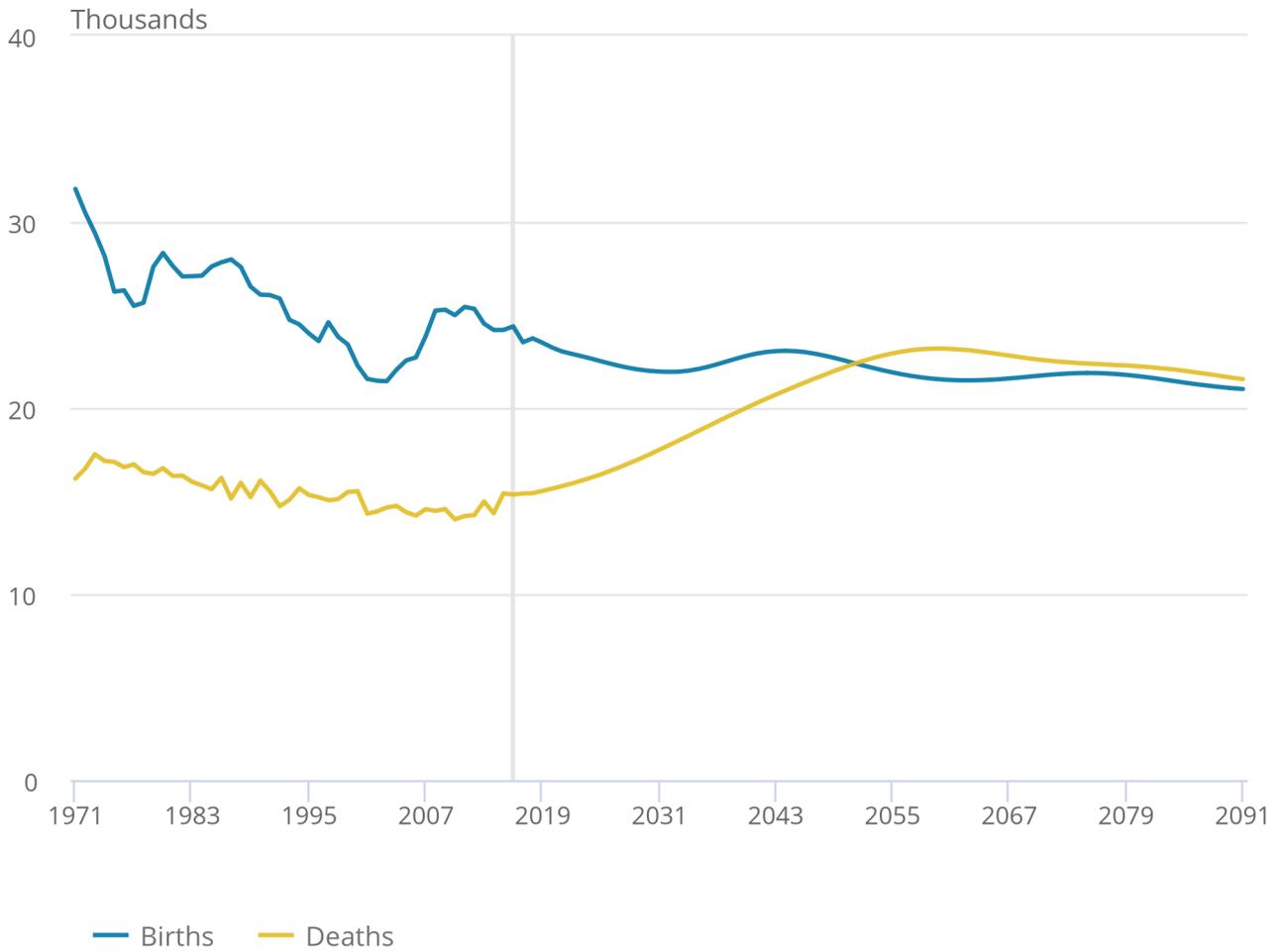


Source: Office for National Statistics

Source: Office for National Statistics

**Figure 2.2d: Estimated and projected births and deaths, Northern Ireland, year ending mid-1971 to year ending mid-2091**

Figure 2.2d: Estimated and projected births and deaths, Northern Ireland, year ending mid-1971 to year ending mid-2091

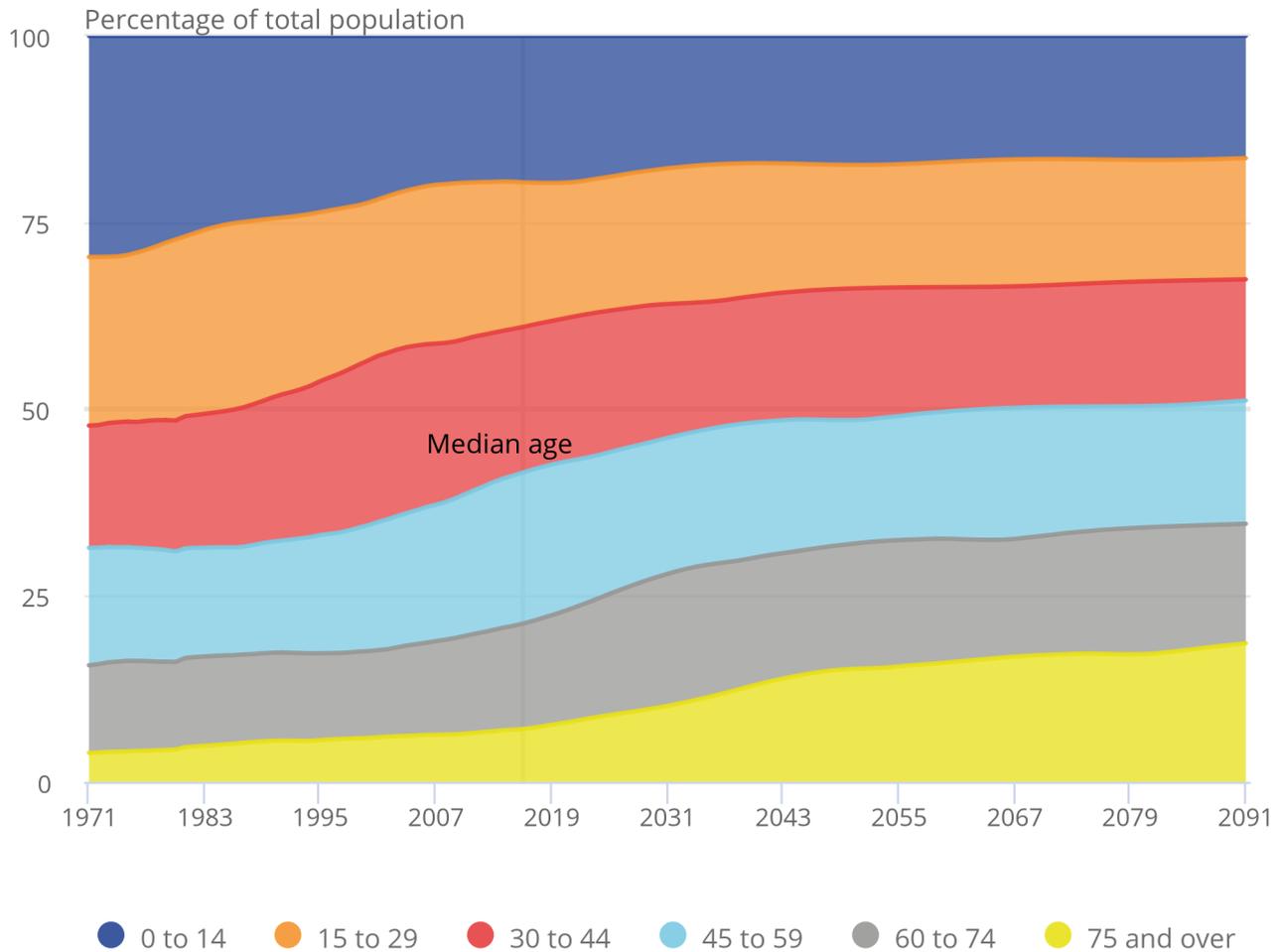


Source: Office for National Statistics

Source: Office for National Statistics

Figure 2.3d: Percentage age distribution, Northern Ireland, year ending mid-1971 to year ending mid-2091

Figure 2.3d: Percentage age distribution, Northern Ireland, year ending mid-1971 to year ending mid-2091

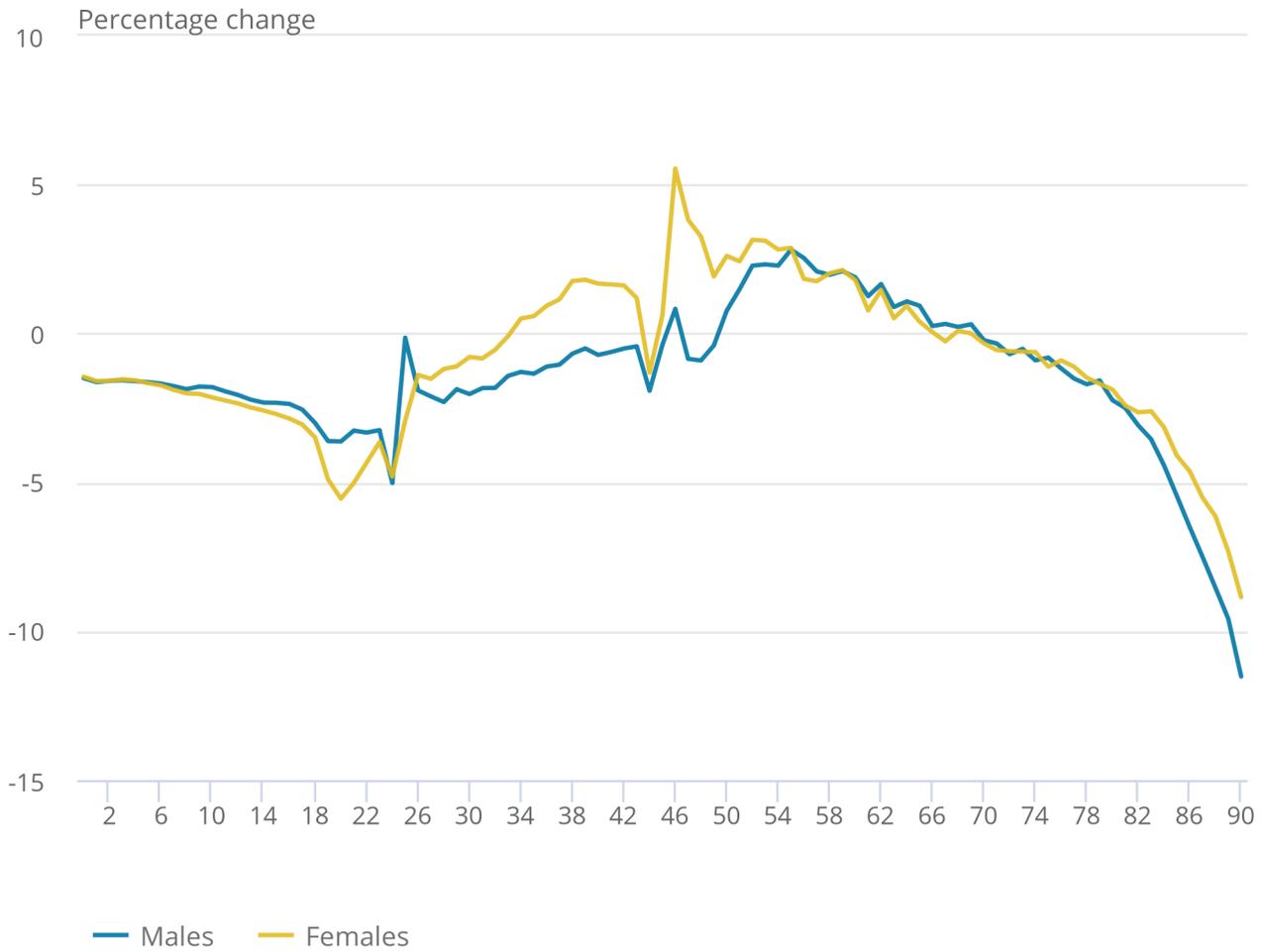


Source: Office for National Statistics

Source: Office for National Statistics

**Figure 2.4d: Change in projected population at mid-2041 by age and sex compared with the 2014-based projections, Northern Ireland**

Figure 2.4d: Change in projected population at mid-2041 by age and sex compared with the 2014-based projections, Northern Ireland



Source: Office for National Statistics

Source: Office for National Statistics

**Table 2.1d: Components of change: summary (annual average over period), Northern Ireland, mid-2016 to mid-2041**

Thousands

	2016 to 2017	2017 to 2022	2022 to 2027	2027 to 2032	2032 to 2037	2037 to 2041
Population at start	1,862	1,871	1,912	1,946	1,971	1,990
Births	24	23	23	22	22	23
Deaths	15	16	16	18	19	20
Natural change	8	8	6	5	3	3
Migration	0	1	1	0	0	1
Total change	9	8	7	5	4	3
Population at end	1,871	1,912	1,946	1,971	1,990	2,003

Source: Office for National Statistics

Notes:

1. Figures may not sum because of rounding.
2. Years refer to mid-year to mid-year intervals.